

Umatilla County

Department of Land Use Planning



AGENDA

Umatilla County Planning Commission

Public Hearing

Thursday, December 15, 2016, 6:30 p.m.

Justice Center Media Room, Pendleton, OR

Members of Planning Commission

Randy Randall, Chair
Gary Rhinhart, Vice-Chair
Tammie Williams
Don Wysocki
Don Marlatt
Suni Danforth
Cecil Thorne
Tami Green
Clive Kaiser

Members of Planning Staff

Tamra Mabbott, Planning Director
Carol Johnson, Senior Planner
Bob Waldher, Senior Planner
Brandon Seitz, Assistant Planner
Julie Alford, GIS
Gina Miller, Code Enforcement
Tierney Dutcher, Administrative Assistant

1. **Call to Order**
2. **Adopt Minutes** (Thursday, August 25, 2016)
3. **NEW HEARING:**

TEXT AMENDMENT, #T-16-068, PLAN AMENDMENT #P-117-16, and ZONE MAP AMENDMENT, #Z-309-16 application submitted by the OREGON DEPARTMENT OF TRANSPORTATION.

The applicant requests to add an expansion of an existing quarry (Meacham Quarry) to the Umatilla County Comprehensive Plan list of Goal 5 protected Significant Sites and apply the Aggregate Resource (AR) Overlay Zone to the entire quarry site. The proposed expansion would add approximately 19 acres to the existing Goal 5 protected site. The property is located off the west side of the Old Oregon Trail Highway, described as Township 1 North, Range 35 East, Section 34, Tax Lots 800, 900, and 1000, and Township 1 South, Range 35 East, Section 03AB, Tax Lot 100. The existing quarry is zoned Grazing Forest (GF) with Aggregate Resource overlay (AR). The proposed expansion area is currently zoned GF and Forest Residential (FR). The criteria of approval are found in Oregon Administrative Rule 660-023-040-050, 660-023-0180 (3), (5) and (7), and Umatilla County Development Code 152.487 – 488.

4. **NEW HEARING:**

TEXT AMENDMENT, #T-16-070, co-adopt City of Weston Transportation System Plan.

The city of Weston requests the county co-adopt their existing Transportation System Plan (TSP) and TSP update. The TSP will apply to development within the Weston Urban Growth Area. The criteria of approval are found in Umatilla County Development Code 152.750-152.754 and the Joint Management Agreement between the City and County.

5. NEW HEARING:

TEXT AMENDMENT, #T-16-071, co-adopt City of Pilot Rock Transportation System Plan. The city of Pilot Rock requests the county co-adopt their existing Transportation System Plan (TSP). The TSP will apply to development within the Pilot Rock Urban Growth Area. The criteria of approval are found in Umatilla County Development Code 152.750-152.754 and the Joint Management Agreement between the City and County.

6. INTERGOVERNMENTAL AGREEMENTS:

Updates to the current Joint Management Agreements (JMA) between Umatilla County and the City of Umatilla and City of Hermiston are presented for the Planning Commission's decision and recommendation to the County Board of Commissioners.

7. Other Business

8. Adjournment

Upcoming Meetings:

Thursday, January 26, 2017, 6:30 PM

Thursday, February 23, 2017, 6:30 PM

Thursday, March 23, 2017, 6:30 PM

Thursday, April 27, 2017, 6:30 PM

**DRAFT MINUTES
UMATILLA COUNTY PLANNING COMMISSION
Meeting of Thursday, August 25, 2016
6:30 p.m., Umatilla County Justice Center, Media Room
Pendleton, Oregon**

COMMISSIONERS

PRESENT: Randy Randall, Chair, Suni Danforth, Don Marlatt, Don Wysocki,
Tami Green, Cecil Thorne
ABSENT: Gary Rhinhart, Vice Chair, Clive Kaiser, Tammie Williams
STAFF: Bob Waldher, Tamra Mabbott, Tierney Dutcher

NOTE: THE FOLLOWING IS A SUMMARY OF THE MEETING. A RECORDING OF THE MEETING IS AVAILABLE AT THE PLANNING DEPARTMENT OFFICE.

CALL TO ORDER:

Chair Randall called the meeting to order at 6:30 p.m. and read the opening statement and called for the Staff Report.

CONTINUED HEARING

LAND DIVISION REQUEST, #LD-1S-093-16, Oregon Department of Transportation (ODOT), applicant/owner,

The subject property is located in the unincorporated community of Meacham, at the corner of College Street and Third Street in Township 01S, Range 32E, Section 03AB. The applicant requests approval for a subdivision replat of Lots 1 through 9, Block 3, of the Town of Etna into two lots. The criteria of approval are found in Section 152.697(C) of the Umatilla County Development Code.

Staff Report: Bob Waldher, Senior Planner, presented the staff report. He stated that the applicant, ODOT, submitted the application on June 15th, 2016 for the replat of Lots 1 through 3 and Lots 4 through 9, Block 3, of the Plat of the Town of Etna, requesting to replat into two lots. The subject property, owned by ODOT, is located in the unincorporated community of Meacham, at the corner of College Street and Third Street, in Township 1S, Range 32E, Section 03AB; Tax Lots #1400 and 1500. The property is zoned Unincorporated Community (UC). Public notice was sent out on July 12th for the July 28th hearing. The July 28th hearing did not have a quorum so it was continued to the present meeting. No letters or comments have been provided by public or agencies at this time.

The criteria of approval for a Type III Land Division are found in Section 152.697(C) of the Umatilla County Development Code. A copy of the Preliminary Findings and

Conclusions addressing the criteria of approval is provided in the hearing packet. The Planning Commission's task for this application is to determine if the application complies with the applicable land use standards and whether or not they vote to approve the proposed replat.

Applicant Testimony: Patrick Knight, Planner and Bret Elithorp, Region 5 Surveyor, ODOT, 3012 Island Avenue, La Grande, OR 97850. Mr. Knight said they are mostly there to answer any questions the Planning Commission may have. Chair Randall stated that he reviewed the packet of materials and didn't see a problem but wanted to know more about their end goal and purpose is in the Replat. Mr. Knight said there is currently an old house on one of the lots that needs to be removed because of mold. They are required to have a night manager at that location and need a new dwelling built. In the process of rebuilding the dwelling they must reduce some of the lot sizes to meet structural setback requirements. Chair Randall stated that it sounded like a basic setback issue for building a new dwelling at a later date. Mr. Knight agreed. Commissioner Wysocki asked if the house would be owned by the State of Oregon. Mr. Knight said yes, and there are no plans to sell off any property. Chair Randall asked more about the night watch operation. Mr. Knight said the manager stays onsite overnight to monitor the equipment. Mr. Waldher added that the property is zoned Unincorporated Community (UC) so the dwelling will be authorized with a Zoning Permit through the planning office. Mrs. Mabbott stated that the replat is fairly straight forward, but all replats are required to be approved by the Planning Commission.

Chair Randall called for declarations of ex-parte` contact, biases, conflicts of interest or abstentions from any member of the Planning Commission. There were none.

Opponent Testimony: No opponents.

Public Agencies: No comments.

Chair Randall closed the hearing and moved to deliberation. Commissioner Danforth moved to approve Land Division #LD-1S-093-16. Commissioner Marlatt seconded the motion. Motion passed 6:0.

OTHER BUSINESS:

Chopin Wind, LLC Technical Oversight Committee:

Micah Engum, 404 SE Dorion Suite 226 Pendleton, OR 97801. Mr. Engum represents Chopin Wind, LLC, owners of the Chopin Wind Project. The Chopin Wind Project is nearing the end of construction and a letter was sent requesting a Planning Commission member to participate on the project's Technical Oversight Committee (TOC). The purpose of the TOC is to review the avian, fish and wildlife impact monitoring plan. Umatilla Board of County Commissioners (BCC) conditions of approval for the project require that the TOC includes one Umatilla County Planning Commissioner, one landowner or tenant farmer, one project owner representative and two Umatilla County residents.

Mr. Engum asks for the Planning Commission to appoint one member who may be interested in serving on the TOC. Also, he is planning to ask the BCC for a variance or exception to the requirement of two Umatilla County residents serving on the TOC. Mike Denney is interested in participating, however Mr. Denney currently resides in College Place, WA and is not a Umatilla County resident. As a longtime member of the Blue Mountain Audubon Society, as well as his participation on other wind project oversight committees, Mr. Denney would offer valuable expertise and knowledge of avian species in the region. Mr. Engum asks for the Planning Commissions support in requesting the exception from the BCC. Commissioner Marlatt stated that he supports the decision to include Mike Denney. He has heard him speak before and was very impressed on his knowledge and fairness on issues. Commissioner Danforth and Chair Randall also agree he would be a valuable resource to the TOC.

Commissioner Wysocki asked if the TOC is a BCC requirement. Mrs. Mabbott stated that it is a requirement per our Umatilla County Development Code (UCDC) section 152.616 (HHH), but it also was added as a condition of approval by the BCC. Commissioner Marlatt asked if the BCC determines who is a member of the committee. Mr. Engum said it is decided by the UCDC but some positions are optional. The UCDC states that “[a] Fish, Wildlife and Avian Impact Monitoring Plan shall be designed and administered by the Wind Power Generation Facility owner/operator’s wildlife professionals. The plan shall include the formation of a technical oversight committee to review the plan, and consist of the following persons: (1) The landowners/farm tenants. (2) Wind Power Generation Facility owner/operator representative. (Chair) (3) Oregon Department of Fish and Wildlife representative, if the agency chooses to participate. (4) Two Umatilla County residents with no direct economic interest in the project and recommended by the applicants for appointment by the Umatilla County Board of Commissioners. (5) U.S. Fish and Wildlife representative, if the agency chooses to participate. (6) Umatilla County Planning Commission member.”

Commissioner Wysocki asked if the time commitment will be on an annual basis. Mr. Engum replied that he anticipates one-hour meetings, once or twice a year. The meetings will include presentations from wildlife professionals and advisors who administer the avian, fish and wildlife impact monitoring plan. The responsibility of the TOC is to review and guide the future of the plan. Mrs. Mabbott added that the environmental reports are presented to the Planning Commission annually.

Mrs. Mabbott asked about the second person they have in mind to fulfill the “two resident” requirement. Mr. Engum said they have asked a farmer in Umatilla County, Charles (Chuck) Price. They will have Joshua Franklin from Chopin Wind and Sheldon Ferguson is the tenant farmer they have asked to participate.

Chair Randall asked if any Commissioners would be interested in volunteering to be on the Chopin Wind Project’s TOC. Commissioner Danforth expressed interest. Chair Randall moved to elect Commissioner Danforth as the Planning Commission representative to serve as a member of the Chopin Wind, LLC TOC. Sunny added that they would like to support Mike Denney’s participation and Mr. Engum’s request for a

variance from the BCC. She was concerned that if the variance is granted, the position could go to someone who was not from the region. Mr. Engum stated that he understands the language and why it was set up that way. Mr. Denney is from the region and they do not plan on asking anyone from outside the region to serve on the TOC. The Planning Commission passed by consensus.

Quorum Requirements & Bylaws Review. Mrs. Mabbott, Director, Umatilla County Planning Department stated that it is important to have a quorum each month. We need at least five Planning Commissioners to attend each hearing. She noted that the Bylaws are from 1980, but the quorum part is statutory, so it cannot be changed. She encouraged the Planning Commission to review the Bylaws and report back if there are any areas they would like to update.

The next hearing is scheduled for October 20th, 2016. The regular scheduled December Planning Commission hearing date would fall on December 22nd, 2016. It was agreed to move the December hearing up one week to December 15th, 2016. There was a discussion on holding Pendleton Planning Commission hearings at the Umatilla County Courthouse. The Planning Commissioners agreed they are open to trying new locations.

ADJOURNMENT:

Chair Randall adjourned the meeting at 7:11 p.m.

Respectfully submitted,

Tierney Dutcher
Administrative Assistant

(Minutes adopted by the Planning Commission on _____)

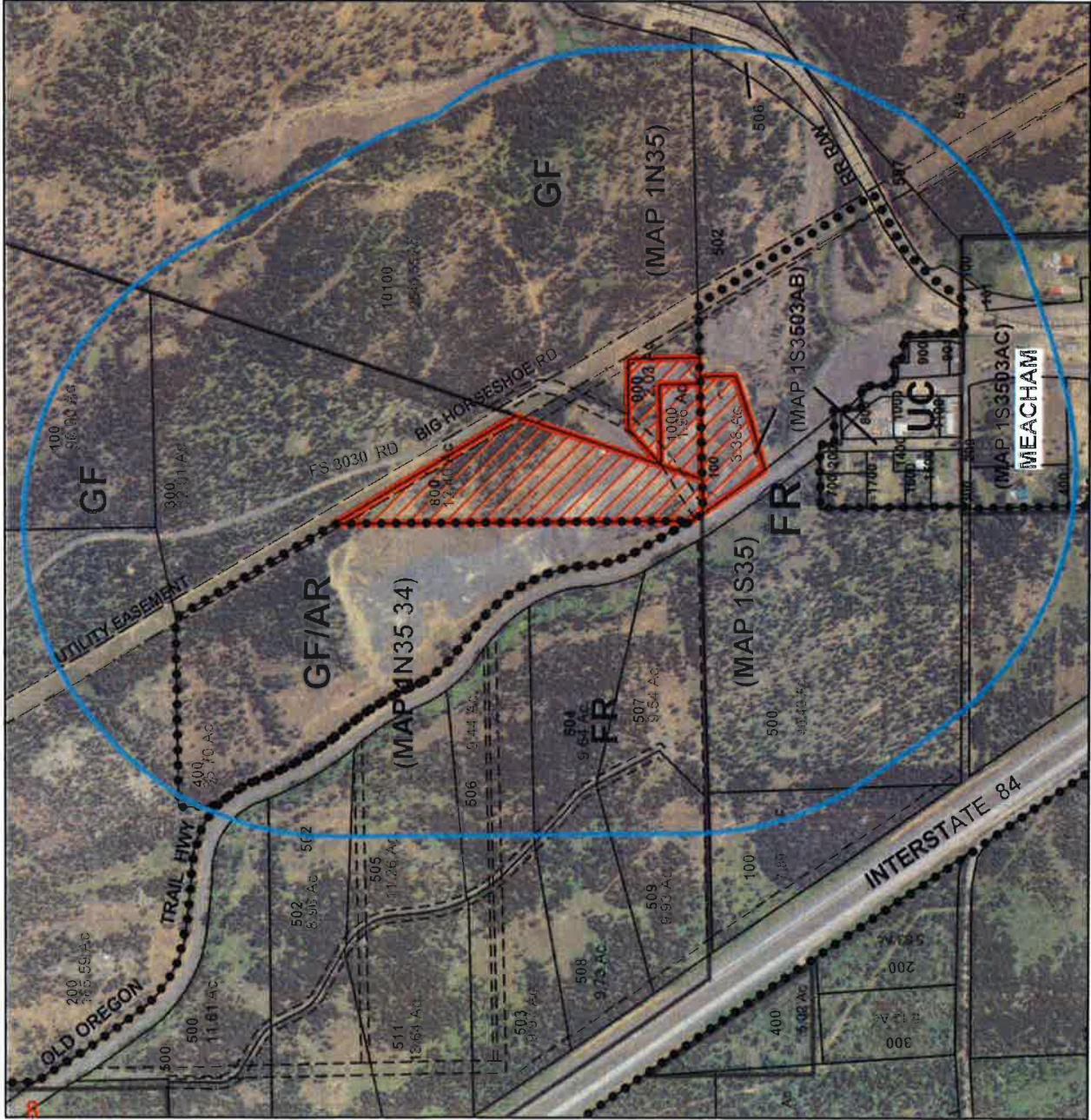
UMATILLA COUNTY PLANNING COMMISSION

December 15, 2016

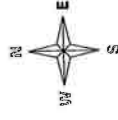
NEW HEARING:

TEXT AMENDMENT, #T-16-068, PLAN AMENDMENT #P-117-16, and ZONE MAP AMENDMENT, #Z-309-16 application submitted by the OREGON DEPARTMENT OF TRANSPORTATION (ODOT).

The applicant requests to add an expansion of an existing quarry (Meacham Quarry) to the Umatilla County Comprehensive Plan list of Goal 5 protected Significant Sites and apply the Aggregate Resource (AR) Overlay Zone to the entire quarry site. The proposed expansion would add approximately 19 acres to the existing Goal 5 protected site. The property is located off the west side of the Old Oregon Trail Highway, described as Township 1 North, Range 35 East, Section 34, Tax Lots 800, 900, and 1000, and Township 1 South, Range 35 East, Section 03AB, Tax Lot 100. The existing quarry is zoned Grazing Forest (GF) with Aggregate Resource overlay (AR). The proposed expansion area is currently zoned GF and Forest Residential (FR). The criteria of approval are found in Oregon Administrative Rule 660-023-040-050, 660-023-0180 (3), (5) and (7), and Umatilla County Development Code 152.487 – 488.



2014 AERIAL PHOTO



DATE: 11/9/16

MAP DISCLAIMER: No warranty is made by Umatilla County as to the accuracy, reliability or completeness of this data. Parcel data should be used for reference purposes only. Created by J. Alford, Umatilla County Planning Department y:\workspace\planning\vicinity maps\M-PODOT_P_117_16.gws

PLAN AMENDMENT #P-117-16 / TEXT AMENDMENT #T-16-068 /
 ZONE MAP AMENDMENT #Z-309-16
 OREGON DEPT OF TRANSPORTATION, APPLICANT/OWNER
 MAP 1N3534, TAX LOTS 800, 900, 1000 & MAP 1S3503AB, TAX LOT 100



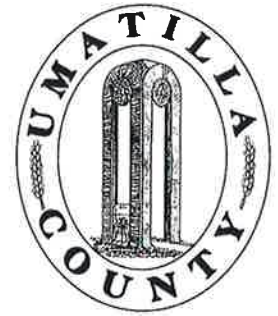
To be Added to AR Overlay Zone



1500' Buffer around ODOT Parcels

Umatilla County

Department of Land Use Planning



DIRECTOR
TAMRA MABBOTT

LAND USE
PLANNING,
ZONING AND
PERMITTING

CODE
ENFORCEMENT

SOLID WASTE
COMMITTEE

SMOKE
MANAGEMENT

GIS AND
MAPPING

RURAL
ADDRESSING

LIAISON, NATURAL
RESOURCES &
ENVIRONMENT

MEMO

TO: Umatilla County Planning Commissioners

FROM: Bob Waldher, Senior Planner

DATE: December 7, 2016

RE: December 15, 2016 Planning Commission Hearing
Oregon Department of Transportation – Meacham Quarry
Plan Map Amendment, #P-117-16
Zone Map Amendment, #Z-309-16
Text Map Amendment, #T-16-068

Background Information

The Oregon Department of Transportation (ODOT) requests to add several tax lots under the same ownership to the Umatilla County Comprehensive Plan list of Goal 5 protected significant sites and apply the Aggregate Resource (AR) Overlay Zone to the entire Meacham Quarry site. The proposed expansion would add approximately 19 acres (Tax Lots #800, 900, 1000, and 100) to the existing 35.70 acre Goal 5 protected site (Tax Lot #400). The entire Meacham quarry, which includes the Goal 5 expansion area, is listed as a 3C site in the Umatilla County Comprehensive Plan Technical Report.

Criteria of Approval

The Umatilla County Development Code has not been updated with the Division 23 Rules for Aggregate. The Oregon Administrative Rules 660-023-0180 to establish a Goal 5 Large Significant Site will be directly applied per OAR 660-023-180 (9). This application constitutes a PAPA and is subject to the criteria listed in Oregon Administrative Rules (OAR) 660-023-0030 through 660-023-0050, and OAR 660-023-0180. In addition, Umatilla County Development Code (UCDC) Sections 152.487 and 152.488 will be applied.

Conclusion

Umatilla County has responsibility to review and process ODOT's request to amend the Comprehensive Plan and establish an AR overlay to protect the site. The Planning Commission's task for this application is to determine whether or not the application complies with the applicable land use standards listed above.

Attachments

The following attachments have been included for review by the Planning Commission:

- Preliminary Findings and Conclusions
- Proposed AR Overlay Expansion Map

**UMATILLA COUNTY BOARD OF COMMISSIONERS
PRELIMINARY FINDINGS AND CONCLUSIONS
MEACHAM QUARRY
COMPREHENSIVE PLAN MAP AMENDMENT, #P-117-16,
COMPREHENSIVE PLAN TEXT AMMENDMENT T-16-068
ZONING MAP AMENDMENT #Z-309-16
MAP #1N 35 34; TL #800, 900, 1000 AND 1N 35 03AB; TL #100**

1. APPLICANT: Patrick Knight, 3012 Island Ave, La Grande, OR 97850
2. OWNERS: Oregon Department of Transportation (ODOT), 3012 Island Ave, La Grande, OR 97850
3. REQUEST:

The applicant requests to add several tax lots under the same ownership to the Umatilla County Comprehensive Plan list of Goal 5 protected significant sites and apply the Aggregate Resource (AR) Overlay Zone to the entire Meacham Quarry site. The proposed expansion would add approximately 19 acres (Tax Lots #800, 900, 1000, and 100) to the existing 35.70 acre Goal 5 protected site (Tax Lot #400). The Meacham quarry is listed as a 3C site in the Umatilla County Comprehensive Plan Technical Report.

The proposed use of the site will be for the periodic excavation and processing of aggregate and batching asphalt under contracts for public roadway projects. Unlike privately owned aggregate quarries, this site will not be in continuous operation. The quarry will mainly be used for aggregate for public highway construction and maintenance purposes. In general, this is a strategic source for the Interstate-84 (I-84) corridor. Major highway construction projects on this highway are conservatively expected to occur approximately once every 10-15 years over duration of about 3 to 10 months. There are times when the quarry may be used in other major projects due to its location and quantity of quality aggregate. In between major projects, the site will remain inactive except for minor maintenance use or emergency needs for rock material.
4. LOCATION: The property is located north of Meacham, off the west side of the Old Oregon Trail Highway, described as Township 1 North, Range 35 East, Section 34, Tax Lots 800, 900, and 1000, and Township 1 South, Range 35 East, Section 03AB, Tax Lot 100.
5. SITUS: No site address is assigned to this property.
6. ACREAGE: The existing Goal 5 protected site (Tax Lot #400) is 35.70 acres. The Goal 5 expansion area includes Tax Lot #800 (12.40 acres), Tax Lot #900 (2.03 acres), Tax Lot #1000 (1.96 acres), and Tax Lot #100 (3.38 acres). If approved, the entire Goal 5 protection area would be 55.47 acres.

7. PERMITS: Multiple permits have been issued to the subject property. A conditional use permit (C-246) was issued for mining in 1982. Since then multiple zoning permits have been issued for the subject property for ODOT's mining operation. The most recent zoning permit (ZP-06-251) was issued in 2006 to allow ODOT to resume mining operations on the subject property.

The existing AR overlay on Tax Lot #400 was created in 1988 through Zone Amendment #Z-246.

A Department of Geology and Mineral Industries (DOGAMI) operating permit has been issued for the site - #30-0018.

8. COMP PLAN: The site has Comprehensive Plan designations of Grazing/Forest and Multi-use.

9. ZONING: The existing Goal 5 protected area is zoned Grazing Forest (GF) with Aggregate Resource overlay (AR). The proposed expansion area is currently zoned GF and Forest Residential (FR).

10. ACCESS: The site can be accessed via Interstate-84 (I-84) from either Exit 234 or Exit 238 to Meacham, and then by travelling to the existing ODOT sand shed. The Meacham quarry is located off US Forest Service Road #3030. The quarry site is located on both sides of the access road, but the southeast side is primarily used by ODOT maintenance crews for the sand shed, stockpiling, and staging areas.

11. ROAD TYPE: Big Horseshoe Road (FS 3030) is a gravel road that is maintained by the US Forest Service.

12. EASEMENTS: There are no access or utility easements on the subject property.

13. LAND USE: The subject property has historically been used as an aggregate operation. The proposed use of the site will continue to be for the periodic excavation and processing of aggregate and batching asphalt under contracts for public roadway projects. Unlike privately-owned aggregate quarries, this site will not be in continuous operation. The quarry will mainly be used for aggregate for public highway construction and maintenance purposes.

In general, this is a strategic source for the I-84 corridor. Major highway construction projects on this highway are conservatively expected to occur approximately once every 10-15 years over duration of about 3 to 10 months. There are times when the quarry may be used in other major projects due to its location, and quantity/quality of aggregate. In between

major projects, the site will remain inactive except for minor maintenance use or emergency needs for rock material.

14. ADJACENT USE: Surrounding properties to the East, West, and North, primarily consist of forested land that is used for grazing, timber cutting, and some outdoor recreation. Properties to the south of the subject property consist of several year-round and seasonal residences located within the unincorporated community of Meacham.

15. LAND FORM: Columbia River Plateau

16. SOIL TYPES: The subject property contains predominately Non-High Value soil types. High Value Soils are defined in UCDC 152. 003 as Land Capability Class I and II. The soils on the subject property are predominately Class III and VII.

Soil Name, Unit Number, Description	Land Capability Class	
	Dry	Irrigated
113D: Waha-Rocky Complex, 2 to 20 percent slopes	VIIIs	---
112B: Waha-Silty Clay Loam, 1 to 12 percent slopes	IIIe	IIIe
<i>Soil Survey of Umatilla County Area, 1989, NRCS. The suffix on the Land Capability Class designations are defined as "e" – erosion prone, "c" – climate limitations, "s" soil limitations and "w" – water (Survey, page. 172).</i>		

17. BUILDINGS: A sand shed is located on Tax Lot #1000.

18. UTILITIES: The parcel is not served by utilities.

19. WATER/SEWER: There are no water or sewer services on this property.

20. FIRE SERVICE: The subject property is not served by a rural fire protection district.

21. IRRIGATION: The subject property is not served by an irrigation district.

22. FLOODPLAIN: This property is NOT in a floodplain.

23. WETLANDS: There or no wetlands located on the subject property.

24. NOTICES SENT: November 23, 2016.

25. HEARING DATE: A public hearing is scheduled to be held before the Umatilla County Planning Commission on December 15, 2016 at 6:30 PM at the Justice Center, 4700 Pioneer Place, Pendleton, OR 97801.

A subsequent hearing will be held before the Board of County

Commissioners on January 18, 2017 at 10:00 AM at the Umatilla County Courthouse, Room #130, 216 SE 4th Street, Pendleton, OR 97801.

26. AGENCIES: Umatilla County Assessor, Umatilla County Public Works, Department of Transportation Region 5-Highways Division, Department of Land Conservation and Development, Department of Environmental Quality, Department of Geology and Mineral Industries, Department of State Lands, US Forest Service

27. COMMENTS: Comments are pending.

NOTE: The Umatilla County Development Code has not been updated with the Division 23 Rules for Aggregate. The Oregon Administrative Rules 660-023-0180 to establish a Goal 5 Large Significant Site will be directly applied per OAR 660-023-180 (9).

28. GOAL 5 ISSUES: Scenic, Open Space, Historic, Wildlife, and other resources.

In order to mine aggregate in Umatilla County, a site must either be an active insignificant site, or be listed on the Goal 5 Inventory of the Umatilla County Comprehensive Plan as a significant site. This subject property is not currently on the Goal 5 Inventory as a significant site. The applicant proposes to utilize quality/quantity information to obtain approval of the plan amendment to add the site to the Umatilla County inventory of significant aggregate sites and obtain Goal 5 protection of the resource. Part of this Goal 5 protection is to include the site under the AR Overlay Zone. The Umatilla County Comprehensive Plan requires that “[a]ny proposed modification to the text or areas of application (maps) of the AR, HAC, CWR or NA Overlay Zones shall be processed as an amendment to this plan.” Therefore, this application constitutes a Post-Acknowledgement Plan Amendment (PAPA), and is subject to the criteria listed in Oregon Administrative Rules (OAR) 660-023-0030 through 660-023-0050, and OAR 660-023-0180. The Department of Geology and Mining Industries (DOGAMI) reclamation plan (on file with DOGAMI) informs ODOT to replace overburden and seed the site with native grasses for wildlife habitat once the quarry is exhausted. As a condition of approval for operation, the applicant must acquire a DOGAMI permit.

29. STANDARDS OF THE OREGON ADMINISTRATIVE RULES, DIVISION 23 FOR GOAL 5 LARGE SIGNIFICANT SITES are found in OAR 660-023-0180 (3), (5), & (7), OAR 660-023-040, and OAR 660-023-050. The standards for approval are provided in underlined text and the responses are indicated in standard text.

OAR 660-023-0180 Mineral and Aggregate Resources

(3) [Large Significant Sites] An aggregate resource site shall be considered significant if adequate information regarding the quantity, quality, and location of the resource demonstrates that the site meets any one of the criteria in subsections (a) through (c) of this section, except as provided in subsection (d) of this section:

(a) A representative set of samples of aggregate material in the deposit on the site meets

Oregon Department of Transportation (ODOT) specifications for base rock for air degradation, abrasion, and sodium sulfate soundness, and the estimated amount of material is more than 2,000,000 tons in the Willamette Valley, or 100,000 tons outside the Willamette Valley;

(b) The material meets local government standards establishing a lower threshold for significance than subsection (a) of this section; or

(c) The aggregate site is on an inventory of significant aggregate sites in an acknowledged plan on the applicable date of this rule.

(d) Notwithstanding subsections (a) through (c) of this section, except for an expansion area of an existing site if the operator of the existing site on March 1, 1996 had an enforceable property interest in the expansion area on that date, an aggregate site is not significant if the criteria in either paragraphs (A) or (B) of this subsection apply:

(A) More than 35 percent of the proposed mining area consists of soil classified as Class I on Natural Resource and Conservation Service (NRCS) maps on the date of this rule; or

(B) More than 35 percent of the proposed mining area consists of soil classified as Class II, or of a combination of Class II and Class I or Unique soil on NRCS maps available on the date of this rule, unless the average width of the aggregate layer within the mining area exceeds:

(i) 60 feet in Washington, Multnomah, Marion, Columbia, and Lane counties;

(ii) 25 feet in Polk, Yamhill, and Clackamas counties; or

(iii) 17 feet in Linn and Benton counties.

To assess the quality, quantity, and location of the resource, ODOT reviewed and summarized existing, geologic mapping, topographic surveying, subsurface drilling and laboratory testing of rock materials. The Meacham Quarry site is estimated to contain approximately 2,000,000 cubic yards (5,000,000 tons) of rock of a quality that exceeds ODOT's highway paving aggregate standards, including abrasion and degradation laboratory testing. The quarry meets (exceeds) the criteria for a significant aggregate site in accordance with OAR 660-023-180 (3)(a).

(5) [Large Significant Sites] For significant mineral and aggregate sites, local governments shall decide whether mining is permitted. For a PAPA application involving an aggregate site determined to be significant under section (3) of this rule, the process for this decision is set out in subsections (a) through (g) of this section. A local government must complete the process within 180 days after receipt of a complete application that is consistent with section (8) of this rule, or by the earliest date after 180 days allowed by local charter.

(a) [Impact Area] The local government shall determine an impact area for the purpose of identifying conflicts with proposed mining and processing activities. The impact area shall be large enough to include uses listed in subsection (b) of this section and shall be limited to 1,500 feet from the boundaries of the mining area, except where factual information indicates significant potential conflicts beyond this distance. For a proposed expansion of an existing aggregate site, the impact area shall be measured from the perimeter of the proposed expansion area rather than the boundaries of the existing aggregate site and shall not include the existing aggregate site.

ODOT's studies, which involved reviewing aerial photographs and conducting field reconnaissance, suggest there is no factual evidence to indicate the presence of significant potential conflicts with other uses beyond the 1,500 foot impact area. ODOT provided a map of the project which includes the 1,500 foot impact area. This map has been added to the project record and is included as an attachment to this document. The Umatilla County Planning Commission finds that factual information is not present to indicate that there would be significant conflicts beyond the 1,500 foot impact area from the boundaries of the proposed expansion. The 1,500 foot impact area is sufficient to include uses listed in (b) below. This criterion is satisfied.

(b) [Conflicts created by the site] The local government shall determine existing or approved land uses within the impact area that will be adversely affected by proposed mining operations and shall specify the predicted conflicts. For purposes of this section, "approved land uses" are dwellings allowed by a residential zone on existing platted lots and other uses for which conditional or final approvals have been granted by the local government. For determination of conflicts from proposed mining of a significant aggregate site, the local government shall limit its consideration to the following:

(A) Conflicts due to noise, dust, or other discharges with regard to those existing and approved uses and associated activities (e. g. , houses and schools) that are sensitive to such discharges;

There are six parcels within the 1,500 foot Impact Area that contain dwellings. Five parcels within the impact area contain storage and maintenance facilities that are owned and operated by ODOT. The following describes the potential conflicts due to noise, dust, or other discharges that could be created by the site and how mitigation would occur.

Noise

Umatilla County Planning Department records show that the subject property has historically been utilized for mining activities since at least 1982, and the existing dwellings have coexisted with the Meacham Quarry for many years. ODOT has indicated that crushing and processing of aggregate will continue to be confined to the already protected Goal 5 area (Tax Lot #400) and noise levels from the aggregate operation will not exceed Oregon Department of Environmental Quality (DEQ) recommendations. Since noise generating activities will not expand beyond the existing protected Goal 5 site, a noise study is not necessary. The Umatilla County Planning Commission finds that noise levels from the proposed expansion are not expected to conflict with existing uses within the 1,500 foot impact area.

Dust

Typically, quarry operations such as aggregate extraction, stockpiling, crushing and processing, and hauling activities are potential sources of dust. Operations at the site must conform to DEQ air quality standards. As part of normal operations at the quarry, contractors have been required to submit a site specific dust control plan and use dust suppression methods to mitigate dust during all operations in the quarry site and during hauling activities. Measures will continue to be taken to mitigate fugitive dust resulting from equipment and vehicle use both onsite and along

the haul route. These measures will meet Oregon DEQ air quality permit requirements outlined in the General Air Contamination Discharge Permit for portable crushers and asphalt batch plants and all other applicable laws and regulations. Also, ODOT construction inspectors will continue to ensure that activities such as excavation, processing, crushing, batching, and hauling are in compliance with required permits and the Dust Control Plan for the quarry operation. Because dust suppression is routinely incorporated as part of any operation at the quarry site, and dust is routinely controlled, dust is not considered to be a significant conflict with existing uses. The Umatilla County Planning Commission finds that ODOT will continue to implement dust suppression measures and dust is not expected to conflict with existing uses within the 1,500 foot impact area.

Stormwater and Pollution

Other discharges typically encountered in quarry activities are stormwater, fluids, and debris from operating equipment. As part of their contract, ODOT requires contractors operating in quarry sites to prepare and adhere to site-specific pollution control and erosion control plans. The applicant has provided the following operating specifications that would be required for contractors:

Develop a site-specific Erosion and Sediment Control Plan (ESCP) for the material source site according to Section 00280.02 of the Oregon Standard Specifications for Construction, and submit it to the Engineer at or before the pre-work meeting. Construct storm-water control berm(s) as needed to control runoff.

Do not allow any materials, including sediments, aggregate or crushing by-products to enter into jurisdictional waterways or wetlands.

Develop a site-specific Pollution Control Plan (PCP) for the material source site according to Section 00290.30(b) of the Oregon Standard Specifications for Construction, and submit it to the Engineer at or before the pre-work meeting. Include the following details:

- *Do not discharge waste or by-product if it contains any substance in concentrations that could contaminate soils or result in harm to fish, wildlife, or water sources.*
- *Store bag-house sludge, lime, and all potentially hazardous materials and solid waste in a manner that prevents seepage into the ground or groundwater sources. Lined sumps or pits are allowable options for storage. If pits or sumps are used, construct adequate berms or provide other measures to prevent breaching of the pits or sumps.*
- *For materials capable of causing water pollution if discharged, locate storage facilities in an area that prevents spillage into waterways or wetlands.*

The applicant notes that berms will be constructed to contain stormwater on-site and prevent sediment from entering jurisdictional wetlands or waterways. ODOT construction inspectors ensure that users' activities within the aggregate site are in compliance with erosion and sediment control and pollution control requirements. At the end of each site operation, the site must be cleaned to meet the requirements in the Operating Specifications as follows:

- *Remove all structures, noncombustible debris, and equipment from the material source/disposal site, even if it was pre-existing, except for grass and small shrubs incorporated into the overburden*
- *Pile and burn all combustible debris resulting from use and development of the source, including the preexisting refuse identified at the pre-work meeting, even if it is from outside the material source/disposal site Project boundary except for grass and small shrubs that are incorporated into the overburden. Comply with all open burning regulations in effect at the time of source occupancy. If burning is not allowed, all combustible debris becomes the property of the Contractor, to be treated as noncombustible and removed from the material source/disposal site.*
- *Remove solid waste and hazardous material from the site and dispose of properly. These include, but are not limited to, bag-house sludge or fines, lime, excess liquid asphalt, rejected and excess asphalt mixture, plant cleanings, materials placed in sumps, tires, pipes, belts, screens and truck cleanings. Provide documentary evidence of proper disposal and verify the amount of material removed.*
- *If a spill or dumping has occurred or if a spill or dumping is suspected to have occurred, the Engineer will sample and test underlying material after all contaminated material is removed to assure compliance with DEQ regulations and to make sure that no material residue has been left behind. If test results show that material residue remains, perform additional cleanup measures according to DEQ requirements.*
- *Hold a post-work meeting at the material source/disposal site to evaluate material source/disposal site rehabilitation work.*

These contract requirements ensure that the equipment, supplies, and methods are used to control stormwater and pollution, and prevent any type of discharges. Stormwater and pollution control has been, and will continue to be a regular part of the quarry operations, therefore these impacts will be minimized or eliminated. The Umatilla County Planning Commission finds that ODOT will continue to implement stormwater and pollution control measures and discharges are not expected to conflict with existing uses within the 1,500 foot impact area.

Blasting

The applicant notes that extensive research on blasting has been conducted by the US Bureau of Mines, the Office of Surface Mining, and numerous universities and private groups for more than 40 years. The impacts from blasting operations studied include vibration, air blast, and fly rock. Studies show that fracturing in the rock around a typical 3.5 inch blast hole is limited to 6 to 12 feet. Ground vibration levels from a blast are set by law to avoid any off site damage, and typical vibrations at safe levels feel the same as a loaded truck or bus traveling 50' to 100' away.

By contract specification, operators of the site are responsible for any damage to property resulting from the blasting operations, so it is in their best interest to ensure that blasting is accomplished in a safe manner. ODOT ensures safe blasting activities within the quarry site by requiring any Contractor operating in the site to follow the contract requirements within the Oregon Standard Specifications for Construction and the Operating Specifications as follows:

- *Blasting and all mineral and aggregate extraction, processing and equipment operation activities, including drilling, are restricted to dates between March 31st and December*

1st. Perform blasting operations according to Section 00335 except the perimeter controlled blasting described in 00335.40(a) is not required.

- *Restrict blasting to the hours of 9:00 a.m. to 5:00 p.m. Monday through Friday. Do not blast on Saturdays, Sundays, or legal holidays.*
- *Prepare and submit a blast plan in accordance with 00335.40(e). The blast plan should address protection of any sensitive cultural features by placing them within "no work" areas according to 00290.51. Blasting will be controlled to prevent fly rock from falling beyond the Project boundary.*
- *Notify the Engineer, Oregon Department of Forestry, recreational users, and all adjacent residents and property owners at least 48 hours before blasting. Do not detonate shots until the person videotaping the shot is prepared, or until the Engineer gives approval to proceed.*
- *Control ground vibrations and air blast pressures by using properly designed delay sequences and allowable charge weights per delay. Base the allowable charge weights per delay on ground vibration and air blast levels which will not cause damage.*

The requirements to control air blast, vibrations, fly rock, and the notification of adjacent land owners are supplemented by videotaping each blast to provide additional documentation of satisfactory performance of the blasting operations

Any archeological sites in the area are a sufficient distance from the blast site that they are unlikely to be impacted by blasting activities. But because the resources need to be protected, any additional measures required to protect the site will be employed to ensure that the sites are not damaged during blasting.

The Umatilla County Planning Commission finds that ODOT will continue to implement safe blasting practices, ensuring that conflicts due to blasting are minimized and so that they have limited impact/conflicts on surrounding land uses.

Summary of Existing Impacts

The Umatilla County Planning Commission finds that no conflicts due to noise, dust, or other discharges with regard to those existing and approved uses and associated activities (e.g., houses and schools) that are sensitive to such discharges exist within the 1,500 foot impact area. Although no conflicts have been identified within the impact area and no mitigation measures are imposed, the applicant has addressed voluntary mitigation measures (described above) that will be implemented to minimize potential impacts from noise, dust, or other discharges.

(B) Potential conflicts to local roads used for access and egress to the mining site within one mile of the entrance to the mining site unless a greater distance is necessary in order to include the intersection with the nearest arterial identified in the local transportation plan. Conflicts shall be determined based on clear and objective standards regarding sight distances, road capacity, cross section elements, horizontal and vertical alignment, and similar items in the transportation plan and implementing ordinances. Such standards for trucks associated with the mining operation shall be equivalent to standards for other trucks of equivalent size, weight, and capacity that haul other materials;

Since ODOT's quarry operations are not expanding beyond their existing operations, the traffic volumes are not expected to change as a result of the proposed Goal 5 expansion. Unlike commercial quarry sites, this quarry will continue to be used to support public road projects, so the traffic generated from operations at this site will be temporary and sporadic. Other expected uses consist of occasional maintenance by the state or county, consisting of just a few vehicles. The potential conflicts to the transportation system within one mile of the quarry based on clear and objective standards regarding site distance and road capacity are minimal and will not change the use of the road system.

The Umatilla County Planning Commission finds that traffic generated by the quarry operations will be consistent with current levels and no conflicts from access and egress to the mining site within one mile of the entrance to the site are not expected as a result of the proposed Goal 5 expansion.

(C) Safety conflicts with existing public airports due to bird attractants, i.e., open water impoundments as specified under OAR chapter 660, division 013;

The Umatilla County Planning Commission finds that there are no public airports within the Impact Area. The closest public airport is located some 29 miles northwest of the mine operation. Thus, no conflicts are recognized in terms of public airports and the proposed mining operation.

(D) Conflicts with other Goal 5 resource sites within the impact area that are shown on an acknowledged list of significant resources and for which the requirements of Goal 5 have been completed at the time the PAPA is initiated;

A portion of the ODOT Meacham Quarry (located on Tax Lot #400) is protected as a significant resource with an AR Overlay Zone, but would not be in conflict with the proposed expansion. The Umatilla County Planning Commission finds that the proposed Goal 5 expansion is not expected to conflict with other Goal 5 resource sites within the 1,500 foot impact area.

(E) Conflicts with agricultural practices; and

Agricultural practices within the 1,500 feet impact area of the quarry site are limited. Several parcels to the east of the existing quarry may be suitable for grazing or timber harvesting. Other surrounding properties are zoned Forest Residential and Unincorporated Community and are primarily used for purposes other than agriculture. The Meacham Quarry has been operational for a number of years without and known impact to surrounding agricultural practices. Therefore, the Umatilla County Planning Commission finds that the proposed Goal 5 expansion is not expected to conflict with agricultural practices within the 1,500 foot impact area.

(F) Other conflicts for which consideration is necessary in order to carry out ordinances that supersede Oregon DOGAMI regulations pursuant to ORS 517.780;

The Umatilla County Planning Commission finds that there are no other conflicts for which consideration is necessary in order to carry out ordinances that supersede Oregon DOGAMI regulations. Therefore, this criterion is not applicable.

(c) [If conflicts exist, measures to minimize] The local government shall determine reasonable and practicable measures that would minimize the conflicts identified under subsection (b) of this section. To determine whether proposed measures would minimize conflicts to agricultural practices, the requirements of ORS 215.296 shall be followed rather than the requirements of this section. If reasonable and practicable measures are identified to minimize all identified conflicts, mining shall be allowed at the site and subsection (d) of this section is not applicable. If identified conflicts cannot be minimized, subsection (d) of this section applies.

The Umatilla County Planning Commission finds that no conflicts were identified within the 1,500 foot impact area. Therefore, this criterion is not applicable. Although no conflicts have been identified within the impact area, the applicant has addressed mitigation measures that will voluntarily be implemented to minimize potential impacts from noise, dust, or other discharges. These measures are described (b)(A) above.

(d) [If conflict can't be minimized then conduct an Economic, Social, Environmental, and Energy (ESEE) analysis] The local government shall determine any significant conflicts identified under the requirements of subsection (c) of this section that cannot be minimized. Based on these conflicts only, local government shall determine the ESEE consequences of either allowing, limiting, or not allowing mining at the site. Local governments shall reach this decision by weighing these ESEE consequences, with consideration of the following:

- (A) The degree of adverse effect on existing land uses within the impact area;
- (B) Reasonable and practicable measures that could be taken to reduce the identified adverse effects; and
- (C) The probable duration of the mining operation and the proposed post-mining use of the site.

The Umatilla County Planning Commission finds that no conflicts were identified. Therefore, this criterion is not applicable.

(e) [Amend Plan] Where mining is allowed, the plan and implementing ordinances shall be amended to allow such mining. Any required measures to minimize conflicts, including special conditions and procedures regulating mining, shall be clear and objective. Additional land use review (e. g. , site plan review), if required by the local government, shall not exceed the minimum review necessary to assure compliance with these requirements and shall not provide opportunities to deny mining for reasons unrelated to these requirements, or to attach additional approval requirements, except with regard to mining or processing activities:

(A) For which the PAPA application does not provide information sufficient to determine clear and objective measures to resolve identified conflicts;

(B) Not requested in the PAPA application; or

(C) For which a significant change to the type, location, or duration of the activity shown on the PAPA application is proposed by the operator.

The Umatilla County Planning Commission finds that no conflicts were identified. Therefore, this criterion is not applicable.

(f) [Post mining uses] Where mining is allowed, the local government shall determine the post-mining use and provide for this use in the comprehensive plan and land use regulations. For significant aggregate sites on Class I, II and Unique farmland, local governments shall adopt plan and land use regulations to limit post-mining use to farm uses under ORS 215.203, uses listed under ORS 215.213(1) or 215.283(1), and fish and wildlife habitat uses, including wetland mitigation banking. Local governments shall coordinate with DOGAMI regarding the regulation and reclamation of mineral and aggregate sites, except where exempt under ORS 517.780.

The Umatilla County Planning Commission finds that the post mining uses must comply with the GF and FR zones and the DOGAMI Reclamation Plan requirements. The applicant's post mining reclamation plan to contour and revegetate the subject property for wildlife habitat would be in compliance with these requirements. This criterion is satisfied.

(g) [Issuing a zoning permit] Local governments shall allow a currently approved aggregate processing operation at an existing site to process material from a new or expansion site without requiring a reauthorization of the existing processing operation unless limits on such processing were established at the time it was approved by the local government.

The Umatilla County Planning Commission finds that the aggregate processing will be limited to the boundaries of the existing approved quarry site. Therefore, reauthorization of the existing processing operation is not required.

(7) [Protecting the site from other uses/conflicts] Except for aggregate resource sites determined to be significant under section (4) of this rule, local governments shall follow the standard ESEE process in OAR 660-023-0040 and 660-023-0050 to determine whether to allow, limit, or prevent new conflicting uses within the impact area of a significant mineral and aggregate site. (This requirement does not apply if, under section (5) of this rule, the local government decides that mining will not be authorized at the site.)

The process to determine how to protect the site from other uses/conflicts is to conduct an ESEE Analysis. OAR 660-023-0040 & 0050 are addressed below.

660-023-0040 ESEE Decision Process

(1) Local governments shall develop a program to achieve Goal 5 for all significant resource sites based on an analysis of the economic, social, environmental, and energy (ESEE)

consequences that could result from a decision to allow, limit, or prohibit a conflicting use. This rule describes four steps to be followed in conducting an ESEE analysis, as set out in detail in sections (2) through (5) of this rule. Local governments are not required to follow these steps sequentially, and some steps anticipate a return to a previous step. However, findings shall demonstrate that requirements under each of the steps have been met, regardless of the sequence followed by the local government. The ESEE analysis need not be lengthy or complex, but should enable reviewers to gain a clear understanding of the conflicts and the consequences to be expected. The steps in the standard ESEE process are as follows:

- (a) Identify conflicting uses;
- (b) Determine the impact area;
- (c) Analyze the ESEE consequences; and
- (d) Develop a program to achieve Goal 5.

The items (a) through (d) will be addressed below.

(2) Identify conflicting uses. Local governments shall identify conflicting uses that exist, or could occur, with regard to significant Goal 5 resource sites. To identify these uses, local governments shall examine land uses allowed outright or conditionally within the zones applied to the resource site and in its impact area. Local governments are not required to consider allowed uses that would be unlikely to occur in the impact area because existing permanent uses occupy the site. The following shall also apply in the identification of conflicting uses:

The local government has identified conflicting uses that exist, or could occur, with regard to significant Goal 5 resource sites. Potential conflicting uses found in the Umatilla County Development Code are outlined in the **Table 1**, below. This criterion is satisfied.

Table 1 - Potential Conflicting Uses

Zoning	Code Sections	Potential Conflicting Uses
GF	152.081 Uses Permitted Outright; 152.083 Zoning Permit; 152.084 Land Use Decisions; 152.085 Conditional Uses	Dwellings (large tract forest, temple, lot of record, hardship, residential homes, room & board); churches; community centers; private and public parks and playgrounds; golf courses; public or private schools
FR	152.216(A)(B) Uses Permitted Outright & Zoning Permit; 152.217 Conditional Uses	Dwellings (mobile home, seasonal, single-family); vacation trailer or recreation vehicle; church or church camp retreat; various commercial uses; parks; campgrounds
UC	152.116(A)(B) Uses Permitted Outright & Zoning Permit; 152.117 Conditional Uses	Dwellings (mobile home, farm/forest, single-family, accessory); churches; schools; parks playgrounds & community buildings; boarding, lodging, or rooming house; various commercial uses

(a) If no uses conflict with a significant resource site, acknowledged policies and land use regulations may be considered sufficient to protect the resource site. The determination that there are no conflicting uses must be based on the applicable zoning rather than ownership of the site. (Therefore, public ownership of a site does not by itself support a conclusion that there are no conflicting uses.)

Potential conflicting uses taken from the Umatilla County Development Code that could be adversely affected by mining on the proposed Goal 5 expansion area are identified above. Therefore, this criterion is not applicable.

(b) A local government may determine that one or more significant Goal 5 resource sites are conflicting uses with another significant resource site. The local government shall determine the level of protection for each significant site using the ESEE process and/or the requirements in OAR 660-023-0090 through 660-023-0230 (see OAR 660-023-0020(1)).

A portion of the ODOT Meacham Quarry (located on Tax Lot #400) is protected as a significant resource with an AR Overlay Zone, but would not be in conflict with the proposed expansion since the existing protected area and the proposed expansion are both aggregate uses. This criterion is satisfied.

(3) Determine the impact area. Local governments shall determine an impact area for each significant resource site. The impact area shall be drawn to include only the area in which allowed uses could adversely affect the identified resource. The impact area defines the geographic limits within which to conduct an ESEE analysis for the identified significant

resource site.

The impact area for an aggregate site is 1,500 feet, as specified by OAR 660-023-0180(5)(a). Based on the list of potential conflicting uses identified in **Table 1**, above, the Umatilla County Planning Commission has determined that the 1,500 foot impact area is sufficient for conducting the ESEE analysis.

(4) Analyze the ESEE consequences. Local governments shall analyze the ESEE consequences that could result from decisions to allow, limit, or prohibit a conflicting use. The analysis may address each of the identified conflicting uses, or it may address a group of similar conflicting uses. A local government may conduct a single analysis for two or more resource sites that are within the same area or that are similarly situated and subject to the same zoning. The local government may establish a matrix of commonly occurring conflicting uses and apply the matrix to particular resource sites in order to facilitate the analysis. A local government may conduct a single analysis for a site containing more than one significant Goal 5 resource. The ESEE analysis must consider any applicable statewide goal or acknowledged plan requirements, including the requirements of Goal 5. The analyses of the ESEE consequences shall be adopted either as part of the plan or as a land use regulation.

As shown in **Table 1**, above, the local government has determined several outright and permitted uses that are allowed by the different zones within the 1,500 foot impact area. For purposes of the ESEE analysis, these potential conflicting uses can be grouped into two types of similar uses:

- Dwellings (typically includes large-tract forest, mobile home, seasonal, template, lot of record, hardship, residential home, room & board facility, farm/forest, single-family, and accessory).
- Public/Private Gathering Spaces (typically includes churches, community centers, private and public parks and playgrounds, golf courses, public or private schools, various commercial uses, campgrounds)

The ESSE Analysis follows:

(a) Economic Consequences of Future Uses

Limiting or prohibiting future dwellings and public/private gathering spaces within the impact area may result in the following economic consequences:

- Decrease in the value of adjacent properties
- Decrease in future County tax revenue
- Decrease in opportunities to attract new commercial businesses to the unincorporated community of Meacham

Allowing dwellings and public/private gathering spaces within the impact area is not likely to impact the aggregate operation economically.

(b) Social Consequences of Future Uses

Whether future uses are prohibited, limited, or allowed within the Impact Area is unlikely to cause any positive or negative social consequences.

(c) Environmental Consequences of Future Uses

The Comprehensive Plan Technical Report addresses potential environmental consequences as generally temporary: *“In the case of important resource sites, the positive economic and social benefits often outweigh the environmental consequences.”* There are unlikely to be any lasting environmental consequences from the proposed Goal 5 expansion. Certainly, dust, traffic, noise, and other discharges are expected to be no greater than what is currently experienced from the existing quarry operation. As discussed previously in these findings, numerous mitigation measures have been, and will continue to be implemented by ODOT. Therefore, whether future uses are prohibited, limited, or allowed within the Impact Area is unlikely to cause any positive or negative environmental consequences.

(d) Energy Consequences of Future Uses

Prohibiting future potential conflicting uses in the impact area would have essentially no impact on energy usage, as dwellings and public/private gathering spaces would locate elsewhere and consume identical quantities of energy. Likewise, the energy consequences of allowing dwellings and public/private gathering spaces within the impact area are negligible.

(5) Develop a program to achieve Goal 5. Local governments shall determine whether to allow, limit, or prohibit identified conflicting uses for significant resource sites. This decision shall be based upon and supported by the ESEE analysis. A decision to prohibit or limit conflicting uses protects a resource site. A decision to allow some or all conflicting uses for a particular site may also be consistent with Goal 5, provided it is supported by the ESEE analysis. One of the following determinations shall be reached with regard to conflicting uses for a significant resource site:

- (a) A local government may decide that a significant resource site is of such importance compared to the conflicting uses, and the ESEE consequences of allowing the conflicting uses are so detrimental to the resource, that the conflicting uses should be prohibited.
- (b) A local government may decide that both the resource site and the conflicting uses are important compared to each other, and, based on the ESEE analysis, the conflicting uses should be allowed in a limited way that protects the resource site to a desired extent.
- (c) A local government may decide that the conflicting use should be allowed fully, notwithstanding the possible impacts on the resource site. The ESEE analysis must

demonstrate that the conflicting use is of sufficient importance relative to the resource site, and must indicate why measures to protect the resource to some extent should not be provided, as per subsection (b) of this section.

The Umatilla County Planning Commission has determined that the proposed conflicting use should be allowed fully. As noted previously in the findings, mining has been occurring on the subject property for more than 30 years and adequate mitigation is proposed to avoid potential conflicts with the existing residential and commercial uses within the impact area. These mitigation measures would also minimize conflicts for future uses that potentially locate within the impact area. Besides the mitigation requirements of the mining operation, there are no additional standards to be applied to protect the mining operation more than what is typically required for new development by the Umatilla County Development Code.

660-023-0050 Programs to Achieve Goal 5

(1) For each resource site, local governments shall adopt comprehensive plan provisions and land use regulations to implement the decisions made pursuant to OAR 660-023-0040(5). The plan shall describe the degree of protection intended for each significant resource site. The plan and implementing ordinances shall clearly identify those conflicting uses that are allowed and the specific standards or limitations that apply to the allowed uses. A program to achieve Goal 5 may include zoning measures that partially or fully allow conflicting uses (see OAR 660-023-0040(5) (b) and (c)).

There are no additional standards to be applied to protect the mining operation more than what is typically required for new development by the Umatilla County Development Code. This criterion is not applicable.

(2) When a local government has decided to protect a resource site under OAR 660-023-0040(5)(b), implementing measures applied to conflicting uses on the resource site and within its impact area shall contain clear and objective standards. For purposes of this division, a standard shall be considered clear and objective if it meets any one of the following criteria:

- (a) It is a fixed numerical standard, such as a height limitation of 35 feet or a setback of 50 feet;
- (b) It is a nondiscretionary requirement, such as a requirement that grading not occur beneath the dripline of a protected tree; or
- (c) It is a performance standard that describes the outcome to be achieved by the design, siting, construction, or operation of the conflicting use, and specifies the objective criteria to be used in evaluating outcome or performance. Different performance standards may be needed for different resource sites. If performance standards are adopted, the local government shall at the same time adopt a process for their application (such as a conditional use, or design review ordinance provision).

The Umatilla County Planning Commission finds that there are no standards to be applied to protect the mining operation more than what is typically required for development. This criterion is not applicable.

(3) In addition to the clear and objective regulations required by section (2) of this rule, except for aggregate resources, local governments may adopt an alternative approval process that includes land use regulations that are not clear and objective (such as a planned unit development ordinance with discretionary performance standards), provided such regulations:

(a) Specify that landowners have the choice of proceeding under either the clear and objective approval process or the alternative regulations; and

(b) Require a level of protection for the resource that meets or exceeds the intended level determined under OAR 660-023-0040(5) and 660-023-0050(1).

The Umatilla County Planning Commission finds that there are no alternative regulations specified to protect the mining operation. This criterion is not applicable.

30. STANDARDS OF THE UMATILLA COUNTY DEVELOPMENT CODE FOR ESTABLISHING AN AR OVERLAY ZONE are found in **Sections 152.487 and 152.488**. The following standards of approval are underlined and the findings are in normal text.

152.487 CRITERIA FOR ESTABLISHING AN AR OVERLAY ZONE: Section 152.487 of the Umatilla County Development Code lists required criteria the Planning Commission must consider for establishing an AR Overlay Zone. Criteria are listed and underlined. Evaluation responses are provided in normal text.

(A) At the public hearing the Planning Commission shall determine if the following criteria can be met:

(1) The proposed overlay would be compatible with the Comprehensive Plan;

County Response: The Umatilla County Planning Commission finds the proposal complies with the Comprehensive Plan, Chapter 8, and Policy 38:

Policy 38. (a) The County shall encourage mapping of future agencies sites, ensure their protection from conflicting adjacent land uses, and required reclamation plans.

(b) Aggregate and mineral exploration, extraction, and reclamation shall be conducted in conformance with the regulations of the Department of Geology and Mineral Industries.

(c) The County Development Ordinance shall include conditional use standards and other provisions to limit or mitigate conflicting uses between aggregate sites and surrounding land uses

Policy 38 (a) is met through the Goal 5 process. It was found that the potential conflicting land uses use should be allowed fully. As noted previously in the findings, mining has been occurring on the subject property for more than 30 years and adequate mitigation is

proposed to avoid potential conflicts with the existing residential and commercial uses within the impact area. These mitigation measures would also minimize conflicts for future uses that potentially locate within the impact area. Besides the mitigation requirements of the mining operation, there are no additional standards to be applied to protect the mining operation more than what is typically required for new development by the Umatilla County Development Code. The mining operation will adhere to DOGAMI rules for operation and reclamation of the site as required by (b). Conditions of approval will be imposed on the applicant as required by 660-023-0180 (5)(c), above, that will place operational restrictions on mining operations to mitigate conflicts.

(2) There is sufficient information supplied by the applicant to show that there exists quantities of aggregate material that would warrant the overlay;

The Umatilla County Planning Commission finds that the applicant's PAPA indicates that the proposed aggregate expansion area would produce approximately 2,000,000 cubic yards of aggregate material that exceeds ODOT specifications. The existing mining operation is listed as a 3C site in the Technical Report. These criteria are discussed in the findings under OAR 660-023-0180(3) above regarding quantity/quality.

(3) The proposed overlay is located at least 1,000 feet from properties zoned for residential use or designated on the Comprehensive Plan for residential;

The Umatilla County Planning Commission finds that the proposed overlay is closer than 1,000 feet from properties zoned for residential use. The proposed AR overlay does not meet this criteria.

(4) Adequate screening, either natural or man-made, is available for protecting the site from surrounding land uses.

The Surrounding landscape is comprised of evergreen forest. Therefore, the Umatilla County Planning Commission finds that screening to protect the site from surrounding land uses is not necessary.

(5)The site complies with Oregon Administrative Rules (OAR) 660-023-0180.

The Umatilla County Planning Commission finds that the standards found in (OAR) 660-023-0180 were found to be met by the proposed mining operation. This criterion is met.

152.488 MINING REQUIREMENTS: Section 152.488 of the Umatilla County Development Code lists mining requirements for aggregate sites under the AR Overlay Zone. Criteria are listed and underlined. Evaluation responses are provided in standard text.

(A) All work done in an AR Overlay Zone shall conform to the requirements of DOGAMI or its successor, or the applicable state statutes.

The Umatilla County Planning Commission finds that the applicant shall provide to the Umatilla

County Planning Department a copy of the DOGAMI operating permit and, as a condition of approval, will be required to obtain all necessary State Permits.

(B) In addition to those requirements, an aggregate operation shall comply with the following standards:

- (1) For each operation conducted in an AR Overlay Zone the applicant shall provide the Planning Department with a copy of the reclamation plan that is to be submitted under the county's reclamation ordinance;

The Umatilla County Planning Commission finds that the reclamation plan requirements must meet the standards of DOGAMI and that a copy of the reclamation plan is to be submitted to the Planning Department.

- (2) Extraction and sedimentation ponds shall not be allowed within 25 feet of a public road or within 100 feet from a dwelling, unless the extraction is into an area that is above the grade of the road, then extraction may occur to the property line;

The Umatilla County Planning Commission finds that as a condition of approval, the applicant shall provide a site plan to the Planning Department showing extraction and sedimentation ponds that are not located within 25 feet of a public road or within 100 feet from a dwelling (unless the extraction is into an area that is above the grade of the road, then extraction may occur to the property line).

- (3) Processing equipment shall not be operated within 500 feet of an existing dwelling at the time of the application of the Overlay Zone. Dwellings built after an AR Overlay Zone is applied shall not be used when computing this setback.

No processing equipment is expected to be operated within the proposed Goal 5 expansion area. Therefore, this criterion is not applicable.

- (4) All access roads shall be arranged in such a manner as to minimize traffic danger and nuisance to surrounding properties and eliminate dust.

The Umatilla County Planning Commission finds that an approved access is currently in use for quarry ingress and egress. No new access is being proposed for the expansion area. The access road is arranged in a manner that has and will continue to minimize traffic danger and nuisance to surrounding properties throughout the existence of the quarry.

31. PRELIMINARY DECISION:

BASED UPON THE ABOVE STATED FINDINGS AND CONCLUSIONS, THE ODOT REQUEST TO AMEND THE COMPREHENSIVE PLAN TO ADD THIS SIGNIFICANT SITE TO THE COUNTY'S INVENTORY OF SIGNIFICANT SITES AND ESTABLISH AN AGGREGATE RESOURCE OVERLAY ON THE EXPANSION AREA IS DENIED BECAUSE IT DOES NOT MEET THE CRITERIA FOUND IN UCDC SECTION 152.487(A)(3).

BASED UPON THE ABOVE STATED FINDINGS AND CONCLUSIONS, THE ODOT REQUEST TO AMEND THE COMPREHENSIVE PLAN TO ADD THIS SIGNIFICANT SITE TO THE COUNTY'S INVENTORY OF SIGNIFICANT SITES AND ESTABLISH AN AGGREGATE RESOURCE OVERLAY ON THE EXPANSION AREA IS APPROVED, SUBJECT TO THE FOLLOWING CONDITIONS.

Precedent Conditions: The following precedent conditions must be fulfilled prior to final approval of this request:

1. The County Planning Department will prepare an Ordinance to amend the County Comprehensive Plan to add this aggregate site known as the Meacham Quarry to the County's Inventory of Significant Sites as a Large Significant Site. After approval by the Board of Commissioners, the County will submit the Notice of Adoption to DLCD.
2. Pay notice costs as invoiced by the County Planning Department.

Subsequent Conditions: The following subsequent conditions must be fulfilled following final approval of this request Umatilla County:

3. Obtain all other federal and state permits necessary for development. Provide copies of these permit approvals to the County Planning Department.
 - a. Obtain all applicable permits for the mining operations from DOGAMI before these activities begin. Applicant will obtain approval from DOGAMI for the reclamation plan and submit a copy of the reclamation plan to the Planning Department.
 - b. Obtain all applicable permits for the mining operation from DEQ (air, noise, and water quality issues) before these activities begin.
4. Obtain a Zoning Permit from the Umatilla County Planning Department to finalize the approval of the aggregate site expansion.
5. If the site were to lay inactive for a period of greater than one year, a new zoning permit must be obtained.

6. Adhere to DEQ Noise Standard as found in OAR 340-035-0035, *Noise Control Regulations for Industry and Commerce*.
7. If cultural artifacts are observed during ground-disturbing work, that work must cease in the development area until the find is assessed by qualified cultural resource personnel from the State Historic Preservation Office and the Confederated Tribes of the Umatilla Indian Reservation (CTUIR). Once qualified cultural resource personnel from SHPO and CTUIR are satisfied, the ground-disturbing work may continue.
8. Contour and revegetate the quarry for wildlife habitat purposes during post-mining activities according to the requirements of the DOGAMI application.

UMATILLA COUNTY PLANNING COMMISSION

Dated _____ day of _____, 2016

Randy Randall, *Chair*

UMATILLA COUNTY PLANNING COMMISSION

December 15, 2016

NEW HEARING:

TEXT AMENDMENT, #T-16-070, co-adopt City of Weston Transportation System Plan.

The city of Weston requests the county co-adopt their existing Transportation System Plan (TSP) and TSP update. The TSP will apply to development within the Weston Urban Growth Area. The criteria of approval are found in Umatilla County Development Code 152.750-152.754 and the Joint Management Agreement between the City and County.

Umatilla County

Department of Land Use Planning



DIRECTOR
TAMRA MABBOTT

LAND USE
PLANNING,
ZONING AND
PERMITTING

CODE
ENFORCEMENT

SOLID WASTE
COMMITTEE

SMOKE
MANAGEMENT

GIS AND
MAPPING

RURAL
ADDRESSING

LIAISON, NATURAL
RESOURCES &
ENVIRONMENT

MEMO

TO: Umatilla County Planning Commissioners
FROM: Brandon Seitz, Assistant Planner BS
DATE: December 5, 2016
RE: 2016, Planning Commission Hearing
City of Weston TSP Co-adopt
Text Map Amendment, #T-16-070

Umatilla County is in the process of reviewing the County Transportation System Plan (TSP). As part of the review it was determined that the County has never formally adopted the City of Weston's TSP. Co-adoption provides an opportunity for both agencies to work together to implement the plan in all of the relevant planning documents.

Weston's TSP was prepared as part of an overall effort in 2001 to prepare TSPs for the County and eight smaller municipalities. The document establishes the City's road classification plan and standards. It also establishes a multimodal system plans. The document applies to all the transportation systems and plans within City Limits and the Urban Growth Boundary (UGB). Also established is a 20-year list of the City's Capital Improvement Projects.

Weston's TSP was amended on August 12, 2015 by City of Weston Ordinance number 153-2015. The document modified the City's road standards within the City and UGB. It also modified the pedestrian, freight, transit and bicycle systems plan. Also incorporated in the plan is a suite of projects focused on improving the multimodal movement of people and goods throughout Weston and the surrounding area. Included in the list are four project located outside the City's UGB. The projects identified in Weston's TSP update located outside the UGB will require coordination between the City, County and ODOT for implementation.

Memo
Planning Commission Public Hearing – December 15, 2016
Weston TSP Co-adoption

The City requests the County co-adopt both existing TSP documents as they have never been formally co-adopted by the County. The TSP will apply to development within Weston's UGB and identifies projects for cooperation outside of the City's UGB.

Attachments

The following attachments have been included for review by the Planning Commission:

- Weston's TSP update 2015
- Weston's TSP 2001

**City of Weston
Transportation System Plan
Final Report**

June 2001

**Prepared by:
David Evans and Associates, Inc. and
Umatilla County in coordination with
Oregon Department of Transportation**

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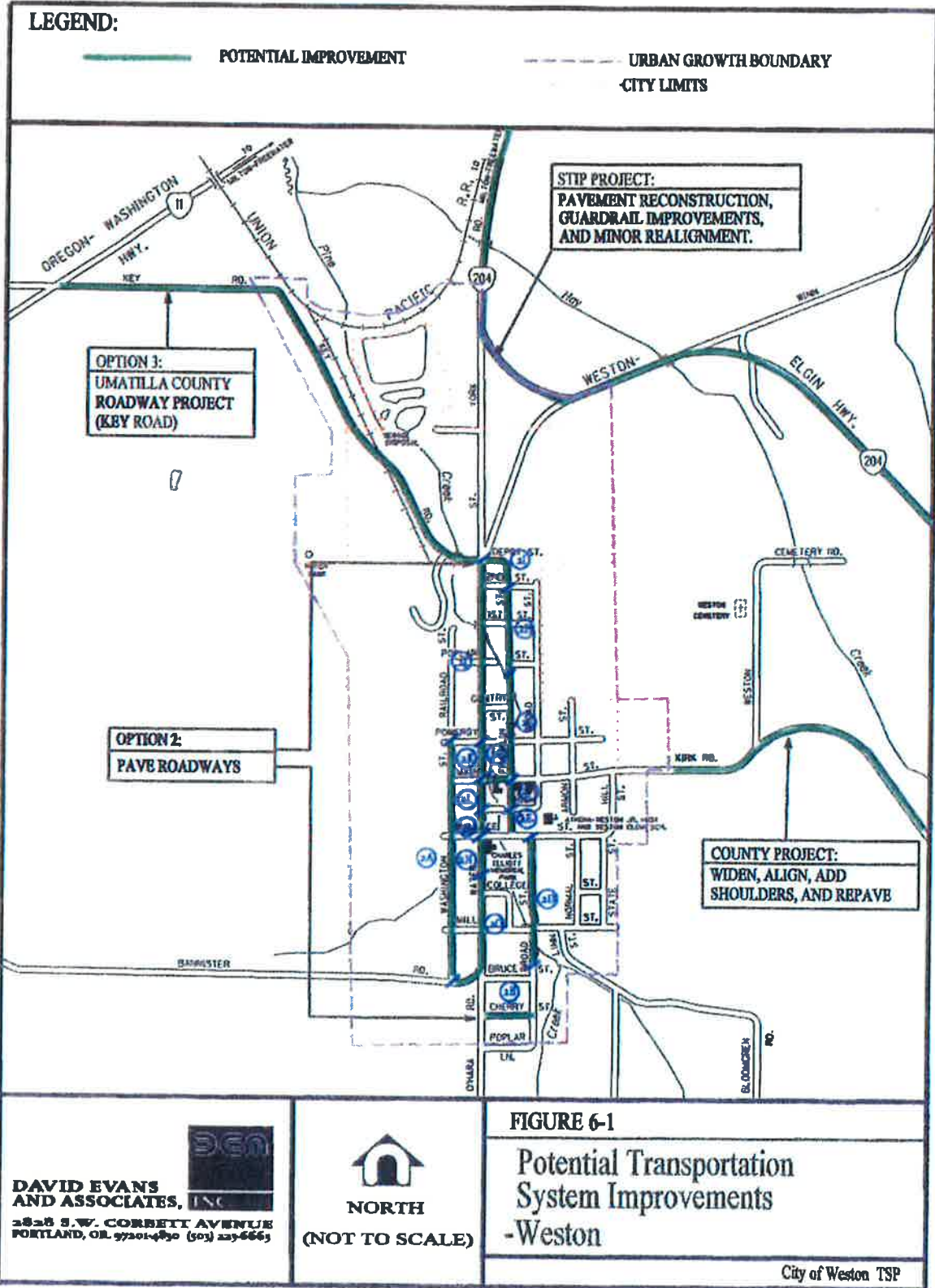
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APPENDICES

- APPENDIX A: REVIEW OF CITY PLANS AND POLICIES
- APPENDIX B: 1997 MAJOR STREET INVENTORIES
- APPENDIX C: UMATILLA COUNTY POPULATION DISCUSSION –
 UMATILLA COUNTY POPULATION ANALYSIS



DAVID EVANS AND ASSOCIATES, INC.
 2828 S.W. CORBETT AVENUE
 PORTLAND, OR 97201-4830 (503) 237-6663


NORTH
 (NOT TO SCALE)

FIGURE 6-1
Potential Transportation System Improvements - Weston
 City of Weston TSP

U:\MC\0001\WT06-1.DGN/TNT/08-17-98

COUNTY TRANSPORTATION IMPROVEMENT PROJECTS

The Umatilla County Roadway Department has identified a potential roadway improvement along Kirk Rd. (County Rd. # 648), between the east UGB of Weston and the Weston-Elgin Highway. Improvements include realignment of certain sections of road, adding shoulders, and repaving the entire roadway. The project length is around 5.6 miles and is estimated to cost around \$600,000 to implement. This county project is also shown in Figure 6-1.

IMPROVEMENT OPTIONS EVALUATION

Through the transportation analysis and input provided from the public involvement program, multiple improvement projects were identified.

Option 1. Revise Zoning Code to Allow and Encourage Mixed-Use Development and Redevelopment

One of the goals of the Oregon TPR is to reduce the reliance on the automobile. One way city jurisdictions can do this is through amendments in zoning and development codes to permit mixed-use developments and increases in density in certain areas. Mixed-use refers to development that contains more than one type of land-use, e.g., residential and commercial. Specific amendments would allow small-scale commercial uses within residential zones or residential uses within commercial zones. Such code amendments can encourage residents to walk and bicycle throughout the community by providing shorter travel distances between land uses.

These code revisions are generally more effective in medium to large sized cities with populations of 25,000 and over, and in cities such as Weston, they are probably not appropriate. Because of Weston's size, the decision of what mode of transportation to use when making a trip inside the City is not influenced by distance. The longest distance between city limit boundaries in Weston is a little over one mile, a distance short enough to walk, ride a bike, or drive. Distances between different land uses, such as residential and commercial, are even shorter.

Changing zoning to allow mixed-use development and increased density may have some effect on development in Weston. Population is projected to increase by 7.4 percent (50 additional residents) in the next 20 years. Higher density can result in the provision of lower cost housing to serve the town's growing population.

No direct costs are associated with making the zoning code amendments.

Revisions to zoning and development codes to allow for increased density are recommended. The City of Weston Comprehensive Plan, Zoning Ordinance, and Land Division Ordinance have also been amended in concurrence with the TSP revisions to address applicable TPR requirements, including the addition of provisions to implement the TSP.

Option 2. Establish a Roadway Maintenance and Improvement Program

Many of the local streets in Weston need paving or repaving. In June 1998, the city of Weston received an estimate from Humbert Asphalt Inc., an asphalt laying company based in Milton-Freewater, to pave or

CHAPTER 6: IMPROVEMENT OPTIONS ANALYSIS

As required by the Oregon TPR, transportation alternatives were formulated and evaluated for the Weston TSP. These potential improvements were developed with input from the TAC, Management Team, county and city officials, and the public. Each of the transportation system improvement options was developed to address specific deficiencies, access, or safety concerns and attempt to address the concerns specified in the goals and objectives (Chapter 2).

The following list includes all of the potential transportation system improvements considered. Improvement options two and three are illustrated in Figure 6-1.

1. Revise zoning code to allow and encourage mixed-use development and redevelopment.
2. Establish a roadway maintenance and improvement program.
3. Umatilla County roadway project (Key Road).
4. Construct a bike path in the southwest section of town.
5. Transportation plans for access to future park south of the city.
6. Implement transportation demand management strategies.

The proposed transportation system improvements evaluated for the Weston TSP include state highway, county, and local road projects. **It should be noted that not all of the transportation improvement options recommended along the county and state systems have identified funding. Therefore, recommended transportation improvements cannot be considered as committed projects, but are subject to the county's and ODOT's abilities to meet these current and future needs financially.**

EVALUATION CRITERIA

The evaluation of the potential transportation improvements in the city of Weston was based on a qualitative review of four factors: 1) safety; 2) access; 3) environmental factors, such as air quality, noise, and water quality; and 4) socioeconomic and land use impacts, such as community livability, right-of-way requirements and impacts on adjacent lands.

A fifth factor in the evaluation of the potential transportation improvements was cost. Costs were estimated in 1998 dollars based on preliminary alignments for each potential transportation system improvement.

STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM PROJECTS

The Oregon Department of Transportation (ODOT) has a comprehensive transportation improvement and maintenance program that covers the entire state highway system. The Statewide Transportation Improvement Program (STIP) identifies all the highway improvement projects in Oregon. The STIP lists specific projects, the counties in which they are located, and their construction year.

The 2000 to 2003 STIP Update, recently released by ODOT Region 5, identifies one improvement just north of Weston. The project involves pavement reconstruction, guardrail improvements, and minor realignment of the Weston-Elgin Highway (OR 204) from OR 11 north of the City to Basket Mountain Road, east of the City. The total cost of the project is estimated at \$3,857,000 and is scheduled for construction in the year 2001. This STIP project is shown in Figures 6-1.

appropriate growth rate to project future traffic is that rate which was calculated from the historic traffic growth and not those rates that were calculated from the historic and future population forecasts. Using the same linear regression analysis used to calculate the historic growth rate of traffic, forecasts were made for the years 1996 through 2018. Traffic volumes are expected to grow at a rate of 1.8 percent per year (47.9 percent by the year 2018) to 1,775 vpd on the highway.

It is important to note that using the historical growth trends assumes that future traffic patterns will remain consistent with historical patterns, without consideration of future planned developments.

The forecast future traffic volumes and total growth from 1996 to 2018 are shown in Table 5-3.

**TABLE 5-3
FORECAST TRAFFIC VOLUMES AND TOTAL GROWTH ON STATE HIGHWAYS**

Location	1996 ADT (vehicles/day)	2018 ADT (vehicles/day)	Total Growth 1996-2018
OR 204 (Weston-Elgin Highway)			
ODOT automatic recorder station (#30-012) near Weston	1,200	1,775	47.9%

Source: ODOT 1976-1996 Transportation Volume Tables; compiled by DEA.

HIGHWAY SYSTEM CAPACITY

For the year 2018, unsignalized intersection analyses were performed using the overall growth (47.9 percent) expected on OR 204 at the same intersection in Weston for which the existing conditions were analyzed. The analyses indicated that all the intersection is expected to exceed ODOT level of service standards over the 20-year forecast period. The results of the unsignalized intersection analyses are shown in Table 5-4. Traffic operations were determined at the intersection using the 1985 Highway Capacity Software for unsignalized intersections. This software is based on the 1985 *Highway Capacity Manual*, Special Report 209, published by the Transportation Research Board.

**TABLE 5-4
SUMMARY OF FUTURE OPERATIONS AT OR 204 AND WATER STREET**

Location	Movement	1996 LOS (v/c)	2018 LOS (v/c)
OR 204 and Water St.	Westbound; Left	A (<0.48)	A (<0.48)
	Northbound; Left and Right	A (<0.48)	A (<0.48)

Note: The level of service is shown for all evaluated movements of the unsignalized intersection.

Analysis Results

Traffic movement volumes at the intersection of OR 204 and Water Street are forecast to increase by approximately 48 percent over the 20-year forecast period. However, all traffic movements at the intersection are expected to continue to operate at LOS A (<0.48 v/c) throughout the 20-year forecast period.

TRAFFIC VOLUMES

Traffic volume projections for the year 2018 are based on historic growth trends of highway volumes taking into account current and future land use projections.

Historic

Before projecting future traffic growth, it is important to examine past growth trends on the Weston roadway system. Historic data are only available for the state highway system near Weston; however, these roadways carry far more traffic than any other roads in the City. The Oregon Department of Transportation (ODOT) collects traffic count data on the state highways (rural and urban sections) every year at the same locations. These counts have been conducted at one location along OR 204 (Weston-Elgin Highway) near the northern UGB in Weston at ODOT's permanent recorder station.

Historical growth trends on OR 204 near Weston's northern UGB were established using the average annual daily traffic (AADT) volume information presented in the ODOT Traffic Volume Tables for the years 1976 through 1996. The AADT volumes were obtained for each of these years at ODOT's permanent recorder station along the highway near Weston. Using a linear regression analysis of the average AADT volumes between 1976 and 1996, an average annual growth rate was determined. Table 5-2 summarizes the historic average growth rate on each of these sections.

**TABLE 5-2
HISTORIC TRAFFIC GROWTH RATES ON STATE HIGHWAYS**

Highway Section	Average Annual Growth Rate 1976-1996	Total Growth 1976-1996
OR 204 (Weston-Elgin Highway)		
ODOT permanent recorder station (#30-012) near Weston's northern UGB	1.80%	42.9%

Source: ODOT 1976-1996 Transportation Volume Tables; information compiled by DEA.

Based on annual volumes from ODOT's permanent recorder station near Weston's northern UGB over the 20-year period from 1976 to 1996, the annual growth rate on OR 204 near Weston has averaged approximately 1.8 percent per year.

Traffic growth on the highway exceeded the population growth in Weston itself, which was negative (-0.4 percent per year) from 1970 to 1990. Weston experienced a growth spurt between 1990 and 1996 where population growth averaged 1.9 percent per year (the result of an increase of 74 residents over the six years). Traffic growth on the highway increased at a rate of 3.1 percent per year during that same period. Typically, the rate of traffic growth is twice that of population growth.

Future Traffic Volumes

Based on the official OEA estimates for the county, the population of Weston is forecast to grow at a rate of 0.5 percent per year over the next 20 years. This represents a slow-down in growth compared with the last few years, and is more consistent with Weston's long-term historic growth rate. It was decided that the most

Umatilla County recently worked with the OEA to increase the official population projections for the county. Even though higher estimates have been adopted for the county than were used for the forecasting in this document, the new estimates will not impact travel projections for the TSP. This is because travel forecasts are based primarily on historic traffic levels taking into account population and land use. The difference between the original estimates and new official estimates is not great enough to impact travel projections.

A detailed description of existing and future land use projections, including the methodology and data sources used, is contained in the Umatilla County Population Analysis located in Appendix C. This appendix contains both the original estimates of the OEA and the new official estimates for the county.

As mentioned, Umatilla County has adopted new population estimates for the county as a whole. The new estimates have been disaggregated to determine how much growth is likely to occur in each city.

Historic Growth

The population of Umatilla County has grown since the 1970s, with significantly slower growth in the 1980s, reflecting a general slowdown in the state's economy. Helix, Pilot Rock, and Weston actually experienced a net population loss between 1970 and 1990. The number of people residing in Weston nearly doubled between 1970 and 1980. This population growth may have been fueled by some significant housing developments and the location of several food processing plants in Weston during this time.

Estimated at 65,500 in 1997, the population of Umatilla County has grown relatively rapidly since the 1990 Census, with an average annual growth rate of 1.44 percent. Most of the jurisdictions in Umatilla County have grown at a healthy rate, comparable to the annual growth rate of 1.44 percent for the county overall. Since 1990, Weston has grown at a slightly faster rate than the county as a whole, with an average growth rate of 1.9 percent per year.

Projected Growth

The State Office of Economic Analysis prepared long-term population projections by county, but since the county has not yet allocated adopted population numbers to incorporated cities, preliminary population forecasts for the jurisdictions of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston were developed in five-year increments based on the initial OEA population forecast. (See Umatilla County Population Discussion – Appendix C.) This was done only for the purpose of producing the future traffic forecast and should not be used for anything other than the intended purpose.

Although the city of Weston experienced a higher growth rate than the county between 1990 and 1996, the projections extrapolated from OEA's county projections show a general slowdown. Weston's population is expected to grow by .5 percent per year over the next 20 years, which will add 50 people to its population projected to be 730 people by 2017.

Overall, Umatilla County is also expected to experience healthy rates of population growth, averaging nearly 1 percent annually over the next 20 years. The western portion of Umatilla County is expected to grow faster than the rest of Umatilla County,. However, like much of rural Oregon, the economy of Umatilla County remains largely seasonal, with nearly one-quarter of all employment agriculture-based. This makes population projections difficult, and are not likely to be as stable as the forecasts imply.

CHAPTER 5: TRAVEL FORECASTS

The traffic volume forecasts for Umatilla County and its municipalities are based on historic growth of the state highway system taking into account historic and projected population growth. Forecasts were only prepared for the state highway system in the county, since the volumes on these roadways are much higher than on any of the county roads.

LAND USE

Land use and population growth plays an important part in projecting future traffic volumes. Population forecasts were developed to help determine future transportation needs since the amount of growth and where it occurs will affect traffic and transportation facilities in the study area. The population analysis presented here is not intended to provide a complete economic forecast or housing analysis, and it should not be used for any purpose other than that for which it was designed.

The population projections for Umatilla County are based on historic growth rates, the original population and employment forecasts made by the State of Oregon Office of Economic Analysis (OEA), and a recent study ² identifying new economically-driven factors that will result in a higher population total than what was initially projected in the DEA forecast.

Both historic and projected population estimates for Umatilla County, Weston, and seven other cities in the county are summarized in Table 5-1. Factors that will affect the future growth rates of the county and incorporated cities include employment opportunities, available land area for development, and community efforts to manage growth.

**TABLE 5-1
UMATILLA COUNTY POPULATION TRENDS**

	1970 ¹	1980 ¹	1990 ¹	1996 ¹ Estimate	2017 ² Projected
Umatilla County	44,923	58,855	59,249	65,500	80,073
Incorporated Cities					
Weston	660	719	606	680	730
Adams	219	240	223	260	310
Athena	872	965	997	1,105	1,360
Echo	479	624	499	530	660
Helix	152	155	150	185	230
Pilot Rock	1,612	1,630	1,478	1,570	1,650
Stanfield	891	1,568	1,568	1,755	2,490
Ukiah	NA	249	250	280	340

Sources:

- 1) Portland State University Center for Population Research and Census.
- 2) The population forecast shown for the county has been officially adopted, however there is no official breakdown in population for the incorporated cities in the county. The projected population numbers shown for the eight cities are based on the initial OEA forecast, solely for the purpose of producing travel forecasts for these cities.

² *Umatilla County Population Analysis*, December 16, 1998, produced by David Evans and Associates, Inc.

**TABLE 4-4
JOURNEY TO WORK TRIPS**

Trip Type	1990 Census	
	Trips	Percent
Private Vehicle	207	88.1%
<i>Drove Alone</i>	189	91.3%
<i>Carpooled</i>	18	8.7%
Public Transportation	0	0%
Motorcycle	1	0.4%
Bicycle	2	0.9%
Walk	16	6.8%
Other	2	0.9%
Work at Home	7	3.0%
Total	235	100.0%

Source: US Bureau of Census.

ACCIDENT ANALYSIS

ODOT collects detailed accident information on an annual basis along all state highways. However, no state highways run through the Weston city limits. Therefore, no state-generated accident information exists for the city of Weston.

**TABLE 4-3
DEPARTURE TO WORK DISTRIBUTION**

Departure Time	1990 Census	
	Trips	Percent
12:00 a.m. to 4:59 a.m.	9	3.9%
5:00 a.m. to 5:59 a.m.	20	8.8%
6:00 a.m. to 6:59 a.m.	60	26.3%
7:00 a.m. to 7:59 a.m.	40	17.5%
8:00 a.m. to 8:59 a.m.	28	12.3%
9:00 a.m. to 9:59 a.m.	2	0.9%
10:00 a.m. to 10:59 a.m.	2	0.9%
11:00 a.m. to 11:59 a.m.	3	1.3%
12:00 p.m. to 3:59 p.m.	33	14.5%
4:00 p.m. to 11:59 p.m.	31	13.6%
Total	228	100.0%

Source: US Bureau of Census..

Assuming an average nine-hour workday, the corresponding afternoon peak can be determined for work trips. Using this methodology, the peak work travel hour would occur between 3:00 and 4:00 p.m., which corresponds with the peak hour of activity measured for traffic volumes.

Travel Mode Distribution

Although the automobile is the primary mode of travel for most residents in the Weston area, some other modes are used as well. Modal split data is not available for all types of trips. The 1990 Census statistics that were reported for journey to work trips are shown in Table 4-4 and reflect the predominant use of the automobile in this area.

In 1990, 89.3 percent of all trips to work were in a private vehicle (auto, van, or truck). Trips in single-occupancy vehicles made-up 74.2 percent of these trips, and carpooling accounted for 15.1 percent.

Bicycle usage was fairly average (approximately 0.9 percent) in 1990. Since the census data do not include trips to school or other non-work activities, overall bicycle usage may be greater. None of Weston roadways include dedicated bicycle lanes. Dedicated bicycle lanes can encourage bicycle commuting, as can other facilities such as bicycle parking, showers, and locker facilities.

Pedestrian activity was also relatively high (6.8 percent of trips to work) in 1990. Statewide, 4.2 percent of trips to work were made on foot. Again, the census data only report trips to work; trips to school or other non-work activities are not included.

In general, the intersection currently operates very well. Traffic on the highway flows smoothly and the left turn movement to Water Street operates at LOS A. The northbound left and right turns from Water Street to OR 204 also operate at LOS A. These left turn movement levels of service correlate to maximum v/c ratios of less than 0.48.

TRANSPORTATION DEMAND MANAGEMENT MEASURES

In addition to inventorying the transportation facilities in Weston, an inventory was performed of any Transportation Demand Management (TDM) strategies that may currently be in place. TDM strategies are designed to relieve congestion on the street system by spreading peak hour traffic over a longer period of time, encouraging the use of alternative modes of transportation (i.e. sidewalks, bike lanes, public transit), and encouraging the single car driver to ride with others through local carpool programs. Other than the sidewalk and bicycle facilities that exist in Weston, no formal TDM strategies exist in the City.

This following sections briefly describe two elements that may impact future transportation demand management decisions in the City: 1) distribution of departure time to work, and 2) distribution of travel modes.

Alternative Work Schedules

One way to maximize the use of the existing transportation system is to spread peak traffic demand over several hours instead of a single hour. Statistics from the 1990 Census show the spread of departure to work times over a 24-hour period (see Table 4-3). Approximately 26 percent of the total employees (those not working at home) depart for work between 6:00 and 7:00 a.m. Another 26 percent depart in either the hour before or the hour after the peak. Therefore, nearly half of all morning commute trips occur between 5:00 a.m. and 8:00 a.m.

TABLE 4-1
LEVEL OF SERVICE CRITERIA FOR ARTERIAL AND COLLECTOR STREETS

Service Level ⁽¹⁾ (v/c Ratio) ⁽²⁾	Typical Traffic Flow Conditions
A (0.00-0.48)	Relatively free flow of traffic with some stops at signalized or stop sign controlled intersections. Average speeds would be at least 30 miles per hour.
B (0.49-0.59)	Stable traffic flow with slight delays at signalized or stop sign controlled intersections. Average speed would vary between 25 and 30 miles per hour.
C (0.60-0.69)	Stable traffic flow with delays at signalized or stop sign controlled intersections. Delays are greater than at level B but still acceptable to the motorist. The average speeds would vary between 20 and 25 miles per hour.
C-D (0.70-0.73)	
D (0.74-0.83)	Traffic flow would approach unstable operating conditions. Delays at signalized or stop sign controlled intersections would be tolerable and could include waiting through several signal cycles for some motorists. The average speed would vary between 15 and 20 miles per hour.
D-E (0.84-0.87)	
E (0.84-0.97)	Traffic flow would be unstable with congestion and intolerable delays to motorists. The average speed would be approximately 10 to 15 miles per hour.
E-F (0.98-0.99)	
F (≥ 1.00)	Traffic flow would be forced and jammed with stop and go operating conditions and intolerable delays. The average speed would be less than 10 miles per hour.

Source: (1) Transportation Research Board, *1985 Highway Capacity Manual*, Special Report 209. National Research Council.

(2) ODOT, *SIGCAP Users Manual*. ODOT, 1994.

The 1999 Oregon Highway Plan (OHP) establishes mobility standards for the state highway system¹. Regional Highways, such as OR 204, should operate at a v/c ratio of 0.80 where the speed limit is less than 45 mph.

The traffic operation was determined at a representative intersection (Water Street) along OR 204 using the 1985 Highway Capacity Software for unsignalized intersections. This software is based on the 1985 *Highway Capacity Manual*, Special Report 209, published by the Transportation Research Board. Since all intersecting streets and driveways are controlled by stop signs in the city, the analysis was performed for an unsignalized intersection. The peak hour traffic on the highway was assumed to be 10 percent of the 24-hour ADT volume and the directional split was assumed to be 60/40. Because side street traffic volumes were unavailable, an assumed volume of 30 vph was used and unsignalized intersection level-of-service calculations were made for the intersection. The peak hour operations at the intersection are shown in Table 4-2.

TABLE 4-2
SUMMARY OF OPERATIONS AT OR 204 AND WATER STREET

Location	Movement	1996 LOS (v/c)
OR 204 and Water St.	Westbound; Left	A (<0.48)
	Northbound; Left and Right	A (<0.48)

Note: The level of service is shown for all evaluated movements of the unsignalized intersection.

¹ 1999 Oregon Highway Plan, Table 6, MAXIMUM VOLUME TO CAPACITY RATIOS OUTSIDE METRO.

CHAPTER 4: CURRENT TRANSPORTATION CONDITIONS

As part of the planning process, the current operating conditions for the transportation system were evaluated. This evaluation focused primarily on street system operating conditions since the automobile is by far the dominant mode of transportation in Weston. Census data were examined to determine travel mode distributions. Traffic counts were used to determine how well traffic is currently flowing.

TRAFFIC VOLUMES

Historic traffic volume counts, documented in the *ODOT Traffic Volume Tables*, exist for OR 204 near Weston. ODOT has a permanent count station near the intersection on OR 204 and Water Street.

Average Daily Traffic

The Average Daily Traffic (ADT) on OR 204 near Weston in 1996 was recorded at approximately 1,200 vehicles per day (vpd). East of Weston, 1996 ADTs were approximately 900 vpd.

ADTs are average volumes for the year. Summer is the season when volumes are highest. ODOT data on OR 204 east of OR 11 indicate that during the summer season, volumes are about 40 to 50 percent higher than average volumes.

No other daily or hourly traffic data were available for the city streets in Weston, nor were any counts taken. Because no state highways go through the city, traffic volumes on city streets were expected to be very low, and capacity deficiencies on city streets do not appear to be an issue in Weston, although discussions with city staff indicated that there are 20-30 trucks per day that drive through the north part of Weston from Smith Foods. These trucks use Key Road on their way to OR 204.

Street Capacity

Transportation engineers have established various standards for measuring traffic capacity of roadways or intersections. Each standard is associated with a particular level of service (LOS). The LOS concept requires consideration of factors that include travel speed, delay, frequency of interruptions in traffic flow, relative freedom for traffic maneuvers, driving comfort and convenience, and operating cost. In the 1991 OHP, levels of service were defined by a letter grade from A-F, with each grade representing a range of volume to capacity (v/c) ratios. A volume to capacity ratio (v/c) is the peak hour traffic volume on a highway divided by the maximum volume that the highway can handle. If traffic volume entering a highway section exceeds the section's capacity, then disruptions in traffic flow will occur, reducing the level of service. LOS A represents relatively free-flowing traffic and LOS F represents conditions where the street system is totally saturated with traffic and movement is very difficult. The 1999 OHP maintains a similar concept for measuring highway performance, but represents LOS by specific v/c ratios to improve clarity and ease of implementation. Table 4-1 presents the level of service criteria and associated range of v/c ratio for arterial and collector roadways.

daily flights provided by United Express). The airport is at an elevation of 1,205 feet above Mean Sea Level and has three runways varying in length from 6,450 feet to nearly 7,200 feet.

Eastern Oregon Regional Airport in Pendleton is a tower-controlled airport with 40,600 annual operations. Passenger service includes 16 scheduled flights per day by Horizon Airlines, with flights to Portland and Seattle. The airfield is also home to 60 locally owned fixed-wing aircraft, four rotor, and eight CH-47 Chinook helicopters with the Oregon Army Air Guard.

The city of Hermiston owns and operates a municipal airport. No commercial flights are available at the present time, but there is charter service available. The Hermiston Municipal Airport is located 1.5 miles from downtown Hermiston and had 12,380 annual operations in 1995. The airport is at an elevation of 641 feet above Mean Sea Level and has one runway which is 4,500 feet long and positioned in a northeast-southwest direction. The airport is often used by businesses such as Simplot, Gilroy Foods, Les Schwab Tires, UPS, and other large organizations such as PGE, Bonneville Power, and the Army Corps of Engineers. There is an agricultural spray operation based at the airport, and local residents also use the airport for recreational purposes.

PIPELINE SERVICE

Although not often considered transportation facilities, pipelines carry liquids and gases very efficiently. The use of pipelines can greatly reduce the number of trucks and rail cars carrying fluids such as natural gas, oil, and gasoline. The Pacific Northwest Gas pipeline runs north-south between Weston and Athena. Cascade Natural Gas provides natural gas to consumers in Weston from this pipeline.

WATER TRANSPORTATION

Weston has no water transportation services. The nearest commercial port is the Port of Umatilla located in the northwest corner of the county along the Columbia River.

use the roadway. On higher volume roadways, particularly the collector streets, safety for the bicyclists is an important issue.

An impediment to bicycle use is the lack of parking and storage facilities for bikes throughout the city of Weston.

PUBLIC TRANSPORTATION

The only intercity bus service in Umatilla County is provided by Greyhound bus lines which provides service along Highway I-84, US 395, and OR 11 within Umatilla County. Greyhound has terminals located in Hermiston and Pendleton that connect these cities to each other and major population centers outside of the county. The Hermiston terminal has two departures heading southeast (with stops in Pendleton, La Grande, Boise, and Salt Lake City); three buses running west to Portland; and two buses heading north on US 395 to Pasco and Spokane daily. The Pendleton terminal has three departures southeast (with stops in La Grande, Boise and Salt Lake City); three departures west to Portland; and two departures north to Seattle via Walla Walla, Pasco, and Spokane daily. The line to Seattle could serve Milton-Freewater as it runs through the City along OR 11.

Weston has dial-a-ride type transit service available for the transportation disadvantaged. Dial-a-ride service is defined as door-to-door service initiated by a user's request for transportation service from their origins to specific locations on an immediate or advance reservation basis. These services are provided through the Umatilla County Special Transportation Fund (STF) in Weston.

Weston has no local fixed-route transit service at this time. The small size and low traffic volumes on city streets indicate that mass transit is not necessary or economically feasible at this time. The TPR exempts cities with a population of less than 25,000 from developing a transit system plan or a transit feasibility study as part of their TSPs.

RAIL SERVICE

Weston has no passenger rail service. Until recently, Amtrak service was available in Hermiston and Pendleton along the rail line that follows the I-84 corridor from Portland to Boise, Idaho and points east. Amtrak is currently experiencing a funding crisis. As a result, passenger service between Portland and Denver, including service to cities within Umatilla County, was discontinued in May 1997. This line serves only freight traffic now.

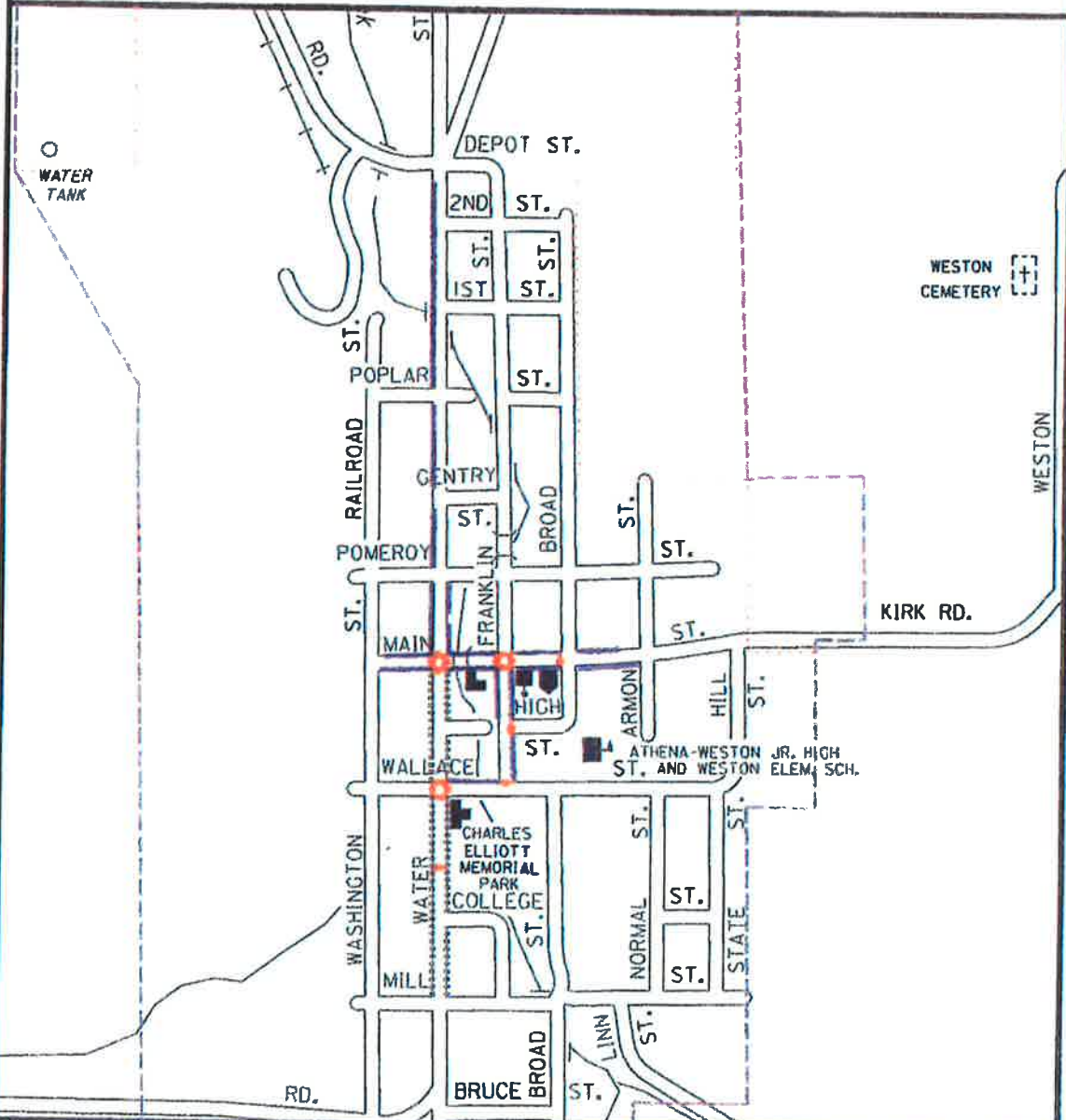
AIR SERVICE

The city of Weston is served by Walla Walla Airport in Walla Walla, WA, which is approximately 20 miles north of Weston, Eastern Oregon Regional Airport in Pendleton, which is approximately 25 miles southwest of Weston and by Hermiston Municipal Airport, which is approximately 50 miles west of Weston.

Walla Walla Airport is owned and operated by the Port of Walla Walla. Located three miles from downtown Walla Walla, it is a tower-controlled airport with 25,000 annual enplanements. Passenger service includes ten scheduled flights per day to Seattle (five daily flights provided by Horizon Airlines and five

LEGEND:

-  SIDEWALK
-  SIDEWALK IN POOR CONDITION
-  CROSSWALK
-  URBAN GROWTH BOUNDARY
-  CITY LIMITS



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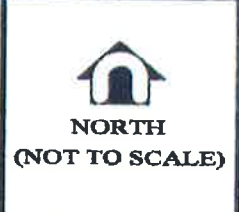


FIGURE 3-2
Pedestrian System Inventory - Weston
 City of Weston TSP

UMC00001/WTON3-1.DGN/TNT/11-26-00

There are a total of six bridges within the city of Weston, all crossing Pine Creek. Five of these bridges are city-owned and maintained, with the remaining bridge under county jurisdiction. The ODOT bridge inventory information indicates that none of the six bridges are currently deficient. No bridge improvements are scheduled within Weston under ODOT's 2000-2003 STIP Update.

PEDESTRIAN SYSTEM

The most basic transportation option is walking. Walking is the most popular form of exercise in the United States and can be performed by people of all ages and all income levels. However, it is not often considered as a means of travel. Because pedestrian facilities are generally an afterthought, they are not planned as an essential component of the transportation system.

The relatively small size of Weston indicates that walking could be employed regularly, weather permitting, to reach a variety of destinations. Encouraging pedestrian activities may not only decrease the use of the personal automobile, but may also provide benefits for retail businesses. Where people find it safe, convenient, and pleasant to walk, they may linger and take notice of shops overlooked before. They may also feel inclined to return to renew the pleasant experience time and again.

As is typical of most towns the size of Weston, the sidewalk system is limited to the older core of the city. Sidewalks exist along the west side of Water Street between Main Street and Depot Street. Sidewalks that are in poor condition also exist on both sides of Water Street between Main Street and College Street, and a broken sidewalk continues on the west side of Water Street to Mill Street. Main Street also has sidewalks on both sides of the street between Washington Street and Arman Street, as well as painted crosswalks at each of the intersections. Sidewalks are found on the west side of Franklin Street between Main Street and High Street, and on the east side of Franklin Street between Pomeroy Street and Wallace Street and on the north side of Wallace Street between Water Street and Franklin Street, in addition sidewalks exist on the west side of Washington Street between Wallace Street and Main Street. Sidewalks also partially extend on the west side of Washington Street between Wallace Street and Mill Street. The last existing section of sidewalk is located on the west side of Broad Street and partially extends from Wallace Street towards Mill Street. The existing pedestrian system is shown in Figure 3-2. Sidewalks and other pedestrian facilities are notably lacking outside of this area. Curb cuts for wheelchair access are largely lacking even where sidewalks exist.

BIKEWAY SYSTEM

Like pedestrians, bicyclists are often overlooked when considering transportation facilities. Bicycles are not often considered as a serious mode of transportation. However, cycling is a very efficient mode of travel. Bicycles take up little space on the road or parked, do not contribute to air or noise pollution, and offer relatively higher speeds than walking. Because of the small size of Weston, a cyclist can travel to any destination in town within a matter of minutes.

Bicycling should be encouraged for short trips in order to reduce some of the negative aspects of urban growth and automobile use. Noise, air pollution, and traffic congestion could be mitigated if more short trips were taken by bicycle or on foot. Typically, a short trip that would be taken by bicycle is around two miles; on foot, the distance commonly walked is around one half mile.

Weston currently has no sanctioned bikeways; bicyclists must share the roadways with motorized vehicles. On low volume roadways, such as many of the local streets, bicyclists and automobiles can both safely and easily

into Union County. It is primarily a two-lane roadway with a speed limit of 55 mph. The route through the Umatilla National Forest consists of numerous curves, moderate grade changes, and a nearly 5.5-mile southbound climbing lane that extends through the steeper part of the forest. OR 204 does not run directly through the city of Weston; however, it forms part of the northern UGB.

GENERAL PAVEMENT CONDITIONS

City Streets

The ODOT Pavements Unit published a 1994 report entitled, *Pavement Rating Workshop, Non-National Highway System*. This report thoroughly defines the characteristics that pavements must display to be categorized as Very Good and so on. The report also provides color photographs of roadways that display these characteristics, which aids in field investigation and rating of pavement condition. These established guidelines were employed by David Evans and Associates, Inc., in conducting a subjective evaluation of pavement condition for all collectors within the city of Weston.

An inventory of the city's collectors, conducted by David Evans and Associates, Inc., in November 1997, indicated that pavement on Water Street is in fair condition; Winn Road is in fair condition; Key Road is in fair condition; Main Street is in fair to poor condition; and Banister Road is in fair condition.

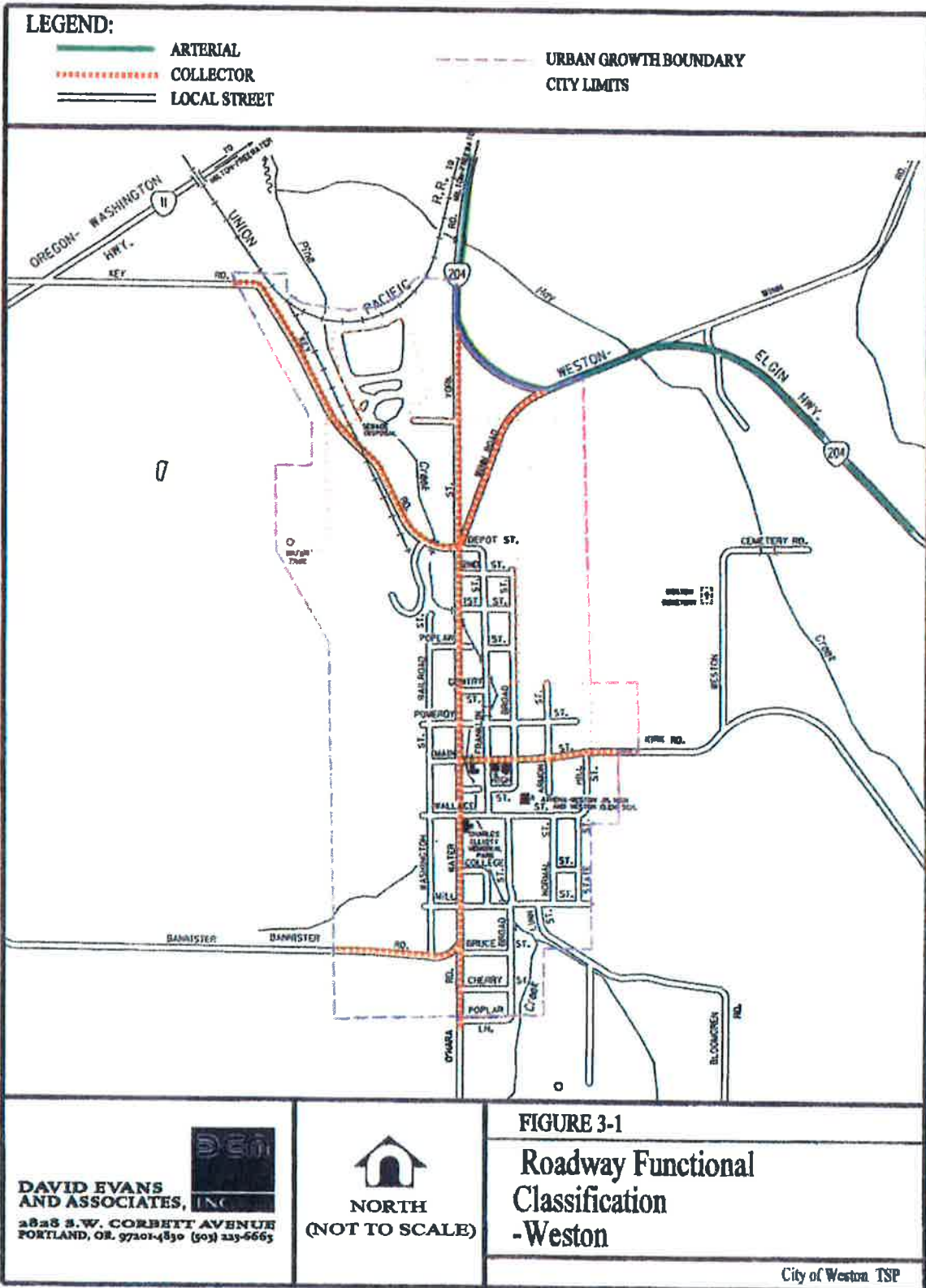
State Highways

The Oregon Department of Transportation's (ODOT's) Pavement Unit surveys the State Highway System on an annual basis. Observed severity levels of certain distress types are used to determine a pavement condition rating score. These scores are used to stratify pavement segments into five condition categories: (1) Very Good, (2) Good, (3) Fair, (4) Poor, and (5) Very Poor. The *Umatilla County Transportation System Plan* briefly defines these condition categories.

According to the 1997 *ODOT Pavement Condition Report*, the section of OR 204 that runs along the Weston UGB is in fair condition.

BRIDGES

The Oregon Department of Transportation maintains an up-to-date inventory and appraisal of Oregon bridges. Part of this inventory involves the evaluation of three mutually exclusive elements of bridges. One element identifies which bridges are structurally deficient. This is determined based on the condition rating for the deck, superstructure, substructure, or culvert and retaining walls. It may also be based on the appraisal rating of the structural condition or waterway adequacy. Another element identifies which bridges are functionally obsolete. This element is determined based on the appraisal rating for the deck geometry, under clearances, approach roadway alignment, structural condition, or waterway adequacy. The third element summarizes the sufficiency ratings for all bridges. The sufficiency rating is a complex formula which takes into account four separate factors to obtain a numeric value rating the ability of a bridge to service demand. The scale ranges from zero to 100 with higher ratings indicating optimal conditions and lower ratings indicating insufficiency. Bridges with ratings under 55 may be nearing a structurally deficient condition.



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Collectors

Collectors serve traffic within the commercial, industrial and residential neighborhood areas. They connect local neighborhoods or districts to the arterial network. Collectors help form part of the grid system; however, they are not intended to function as alternate routes to the arterial system.

Five streets in Weston were identified as functioning as collectors: Water Street, Winn Road, Key Road, Main Street, and Banister Road.

Local Streets

Local streets provide access to all parcels of land and serve travel over relatively short distances. They are designed to carry the very low traffic volumes associated with the local uses that abut them. Through traffic movements are discouraged on local streets.

The local streets in Weston are comprised of all streets not classified as either arterials or collectors. Local streets in Weston also form part of the grid system.

Street Layout

Almost all of the Weston streets are positioned in a grid pattern. Block sizes vary but are typically 320 feet by 240 feet.

State Highways

Discussion of the Weston street system must include the state highways that traverse the planning area. Although Weston has no direct control over the state highways, adjacent development and local traffic patterns are heavily influenced by the highways. Only one state highway traverses the Weston planning area: OR 240 (Weston-Elgin Highway), which lies along the north edge of the Weston UGB. Traffic patterns in Weston are also influenced by the proximity of OR 11 (Oregon/Washington Highway), which lies less than a mile west of the city.

The 1999 *Oregon Highway Plan* (OHP) classifies the state highway system into five categories: Interstate, Statewide, Regional, District, and Local Interest. ODOT has established primary and secondary functions for each type of highway and objectives for managing the operations for each one.

OR 204 is a Regional Highway. According to the OHP, "Regional Highways typically provide connections and links to regional centers, Statewide or Interstate Highways, or economic or activity centers of regional significance." The management objective of Regional Highways is to provide for safe and efficient high-speed continuous-flow operation in rural areas and moderate to high-speed operations in urban and urbanizing areas.

OR 204

OR 204 (Weston-Elgin Highway) is a Regional Highway, which connects Weston with the city of Elgin to the southeast. Beginning at the OR 11 junction, OR 204 extends through the Umatilla National Forest and crosses

CHAPTER 3: TRANSPORTATION SYSTEM INVENTORY

As part of the planning process, David Evans and Associates, Inc., conducted an inventory of the existing transportation system in Weston. This inventory covered the street system as well as the pedestrian, bikeway, public transportation, rail, air, water, and pipeline systems.

STREET SYSTEM

The most common understanding of transportation is of roadways carrying cars and trucks. Most transportation dollars are devoted to building, maintaining, or planning roads to carry automobiles and trucks. The mobility provided by the personal automobile has resulted in a great reliance on this form of transportation. Likewise, the ability of trucks to carry freight to nearly any destination has greatly increased their use.

Encouraging the use of cars and trucks must be balanced against costs, livability factors, the ability to accommodate other modes of transportation, and negative impacts on adjacent land uses; however, the basis of transportation in nearly all American cities is the roadway system. This trend is clearly seen in the existing Weston transportation system, which consists almost entirely of roadway facilities for cars and trucks. Because of the rural nature of the area, the street system will most likely continue to be the basis of the transportation system for at least the 20-year planning period; therefore, the emphasis of this plan is on improving the existing street system for all users.

The existing street system inventory was conducted for all highways, arterial roadways, and collector roadways within Weston, as well as those in Umatilla County that are included in the TSP planning area. Inventory elements include:

- Street classification and jurisdiction
- Street width
- Number of travel lanes
- Presence of on-street parking, sidewalks, or bikeways
- Speed limits
- General pavement conditions

City Street Classification

The current comprehensive plan for the city of Weston does not provide functional classifications for the streets within the city. Typically, streets are classified as arterials, collectors or local streets. Based on conditions observed during the field reconnaissance (traffic volumes, street widths, etc.), David Evans and Associates, Inc., classified all streets within the city. The classification system includes city, county, and state roadways (see Figure 3-1).

Arterials

Arterials form the primary roadway network within and through a region. They provide a continuous road system that distributes traffic between cities, neighborhoods and districts. Generally, arterials are high capacity roadways that carry high traffic volumes entering or leaving the city.

In the Weston UGB, there is one street which functions as an arterial: OR 204 (Weston-Elgin Highway).

- F. Utilize local improvement districts (LIDs) when possible to provide sidewalks and curbs for local neighborhoods.

Goal 5

Encourage the continued and improved rail transportation of goods.

Objectives

- A. Encourage the development of industry in northern Weston near the rail line.
- B. Maintain the operational status of the Blue Mountain rail line.

- E. Develop access management strategies where needed.
- F. Evaluate the need for traffic control devices.
- G. Evaluate the safety of the street system and develop plans to mitigate any safety hazards.
- H. Encourage the provision of transportation alternatives for elderly and handicapped citizens.

Goal 3

Improve coordination among Weston and nearby cities, the Oregon Department of Transportation (ODOT), the US Forest Service (USFS), the Federal Highway Administration (FHWA), and the county.

Objectives

- A. Work with Umatilla County to coordinate roadway maintenance and improvements and to develop joint policies concerning local roads and streets within the Urban Growth Boundary.
- B. Cooperate with ODOT in the implementation of the Statewide Transportation Improvement Program (STIP).
- C. Work with the county in establishing right-of-way needed for new roads identified in the transportation system plans.
- D. Take advantage of federal and state highway funding programs.
- E. Encourage the county and ODOT to improve the existing road systems to and within the city.
- F. Consider pooling resources with other cities and the county to provide services that benefit areas both in and outside the city.

Goal 4

Increase the use of alternative modes of transportation (walking, bicycling, and public transportation) through improved access, safety, and service.

Objectives

- A. Cooperate with other cities and the county to create inter-city transit service.
- B. Encourage the compact, commercial development in the downtown area to provide a pleasant pedestrian environment.
- C. Provide sidewalks or shoulders and safe crossings on collectors and arterials.
- D. Explore opportunities for bicycle facilities and coordinate with the county bicycle planning efforts.
- E. Seek Transportation and Growth Management (TGM) and other funding for projects evaluating and improving the environment for alternative modes of transportation.

CHAPTER 2: GOALS AND OBJECTIVES

The purpose of the TSP is to provide a guide for Weston to meet its transportation goals and objectives. The following goals and objectives were developed from information contained in the city's comprehensive plan and reflect public concerns as expressed during public meetings. An overall goal was drawn from the plan, along with more specific goals and objectives. Throughout the planning process, each element of the plan was evaluated against these parameters.

OVERALL TRANSPORTATION GOAL

To provide and encourage a safe, convenient, and economic transportation system.

Goal 1

Preserve the function, capacity, level of service, and safety of the local streets, county roads, and nearby highways.

Objectives

- A. Develop access management standards.
- B. Develop alternative, parallel routes where practical.
- C. Promote alternative modes of transportation.
- D. Promote transportation demand management programs.
- E. Promote transportation system management.
- F. Develop procedures to minimize impacts to and protect transportation facilities, corridors, or sites during the development review process.

Goal 2

Ensure that the road system within the City is adequate to meet public needs, including those of the transportation disadvantaged.

Objectives

- A. Meet identified maintenance level of service standards on the county and state highway systems.
- B. Pave city streets and provide curbs and sidewalks as resources are available.
- C. Develop and adhere to a five-year road program for maintenance and improvement of the existing city road system.
- D. Review and revise, if necessary, street cross section standards for local, collector, and arterial streets to enhance safety and mobility.

- Oregon Highway Plan (1999)
- Oregon Bicycle and Pedestrian Plan (1995)
- Oregon Public Transportation Plan (1996)
- Oregon Rail Freight Plan (1994)
- Oregon Rail Passenger Policy and Plan (1992)
- Oregon Traffic Safety Action Plan (1995)
- Oregon Aviation System Plan (in development).

The Milton-Freewater Stateline Highway 11 Corridor Land Use and Transportation Plan was a cooperative effort of Umatilla County, the city of Milton-Freewater, and the Oregon Department of Transportation. It was developed by planning consultants at David Evans and Associates, Inc., with input from the local residents, Walla Walla County, and the Washington Department of Transportation. The plan was adopted in 1997, and evaluated existing and projected conditions within the northern portion of the US 11 corridor regarding basic layout and connectivity, conditions of transportation facilities, land use, and population and employment. It analyzed existing deficiencies and proposed strategies for addressing them. The primary deficiencies in the corridor were physical design of facilities, insufficient access control, and inadequate or nonexistent facilities for pedestrians and bicyclists. Recommended actions to improve these conditions included policy and ordinance amendments and transportation system improvements.

Corridor Strategies

Corridor strategies have been prepared for both US 395 and OR 11.

The US 395 corridor is covered in two studies: the *US Highway 395 North (Umatilla-Weston) Draft Corridor Strategy* and the *US Highway 395 South (Pendleton-California Border) Corridor Strategy*. The corridor strategies were developed to identify projects for the Oregon STIP. Generally, the corridor strategies translate the policies of the Oregon Transportation Plan (OTP) into specific actions; describe the functions of each transportation mode, consider trade-offs, and show how they will be managed; identify and prioritize improvements for all modes of travel; indicate where improvements should be made; resolve any conflicts with local land use ordinances and plans; and establish guidelines for how transportation plans will be implemented.

Airport Master Plans

The *1986 Hermiston Municipal Airport Master Plan Update* provides a comprehensive analysis of the Hermiston Airport including an inventory of facilities, a discussion of use for a 20-year planning period (ending in 2006), and recommendations for facility improvements. The introduction of the plan also provides a good overview of all the major transportation facilities serving Hermiston and Northeast Oregon.

The primary objective of the *Master Plan Update for Eastern Oregon Regional Airport at Pendleton* was to re-evaluate the recommendations of previous airport planning studies, to determine the long-range requirements for airport development, to identify and assess development alternatives, and to produce an airport development/improvement plan that will yield a safe, efficient, economical, and environmentally acceptable public facility with capacity for future air transport needs of the Eastern Oregon area. When approved by the various local, regional, state, and federal agencies, the *Airport Master Plan* represents the long-term intentions of all agencies regarding the location and extent of airport improvements. This permits long-range programming and budgeting, reduces lengthy review periods for each project, and provides for orderly and timely development.

Other State Plans

In addition to the ODOT corridor strategy, coordination with the following state plans is required:

- Oregon Transportation Plan (1992)

Zoning Ordinance

The Weston Zoning Ordinance was adopted in 1979. The purported intent and purpose of Zoning Ordinance is as follows:

To promote a good quality of development within the community and provide an opportunity for citizens and city officials to review and comment on development plans. By governing the location of land uses and setting standards to guide the siting of structures and provision of improvements on lots, the Zoning Ordinance is an attempt to insure that new development will enhance the community, fit into the landscape and neighborhood, and provide good living, working, and business environments.

The Ordinance contains four sections: Introduction, Use Zones, Supplementary Development Standards, and Administration. The only sections that apply directly to the transportation plan, are the sections on off-street parking and miscellaneous standards which requires access to all newly partitioned lots.

Umatilla County

The Umatilla County Comprehensive Plan was written in 1983 to meet the statewide requirements for planning. It was last amended in 1987. The plan is broken into three sections: the Introduction; Plan Elements – Findings, Recommended Policies; and the Plan Map. The Plan Elements section is broken into sections dealing with the fourteen goals. This includes a Transportation Element with findings and recommended policies.

Umatilla County Development Code

The Umatilla County Development Ordinance was adopted in 1983, and last amended in November of 1991. In 1997 this ordinance was recodified and retitled as Chapter 1528 Development Code. The portions of the code most relevant to the Transportation System Plan include sections on off-street parking requirements, driveways, and road standards. Amendments to the development code include road standards for county roads.

OR 11 Corridor Plan

The OR 11 Corridor Plan is currently being prepared for the Oregon – Washington Highway (OR 11) which is the major north-south route through eastern Umatilla County. Corridor planning is a new approach to transportation planning in which ODOT and the communities bordering major transportation corridors work together to create plans for managing and improving transportation modes along entire corridors. The OR 11 Corridor Plan includes objectives that define the policy direction for all modes in the Corridor, as well as for several functional issues such as connectivity, congestion and environmental and energy impacts. The plan includes a list of projects prioritized by funding. The Corridor Plan projects are derived from the county and local TSPs, the Milton-Freewater to Stateline Land Use and Transportation Plan, the STIP, the Umatilla County Needs Assessment, as well as input from the project management team, technical advisory committees and the public. Projects and strategies focus on managing the highway to minimize congestion and improve connectivity while ensuring safety.

RELATED DOCUMENTS

The city of Weston TSP addresses the regional and rural transportation needs in the City. There are several other documents that address specific transportation elements or areas in Umatilla County that may directly or indirectly impact transportation elements in and around Weston.

In Process or Completed Plans

The following references were reviewed for relevance to the city of Weston TSP:

Weston Comprehensive Plan

The Weston Comprehensive Plan was adopted in 1978 and amended in 1979. According to the plan, the small town nature and historic character of Weston is valued by citizens as one of the City's primary assets. The City would like to retain the ambiance of Weston while experiencing moderate population and employment growth.

Some of the most salient concerns of the citizenry involve the transportation system. Results of a survey taken in 1978 showed that much of the community was disturbed by the poor condition of streets and/or curbs and gutters in much of the town. The City recognizes the maintenance of county and state roads and the railroad as essential to the economic health of the community. Easy access to OR 11 and OR 204, north of the town, is also critical. Citizens see a need for public transportation linking Weston with other communities, especially for seniors.

The Comprehensive Plan lists two goals that impact the transportation system directly: economic development and transportation. The stated goals, and objectives and policies that serve to meet the goals are outlined in Appendix A of this TSP.

City of Weston Growth Report

The *Weston Growth Report* was last amended in 1979, and much of the data may be outdated. However, the population has only grown by 40 people (650 to 690) between 1979 and 1996, so much of the City may not have changed.

The buildable lands inventoried in 1979, were broken into three categories: residential areas, commercial areas, and industrial areas. The buildable commercial lands totaled 12.3 acres, all within the downtown area. These lands were comprised of 2.3 acres of vacant land and 10 acres of redevelopable residential land. Buildable residential lands were comprised of individual lots scattered throughout the City and regions located on the edges of UGB. The growth report estimated that 171.9 acres of buildable residential land and 108 vacant building sites could provide for 505 new dwellings. It estimated that the City could accommodate a population of 1,900 people.

The inventory of existing facilities catalogs the current transportation system. The results of the inventory are described in Chapter 3, while Chapter 4 describes how the system operates. Appendix B summarizes the inventory of the existing arterial and collector street system.

Future Transportation System Demands

The Transportation Planning Rule requires the TSP to address a 20-year forecasting period. Future traffic volumes for the existing and committed transportation systems were projected using ODOT's *Level 1 – Trending Analysis* methodology. The overall travel demand forecasting process is described in Chapter 5.

Transportation System Potential Improvements

Once the travel forecasts were developed, it was possible to evaluate a series of potential transportation system improvements. The evaluation of potential transportation improvements was based on a qualitative review of safety, environmental, socioeconomic, and land use impacts, as well as estimated cost. These improvements were developed with the help of the local working group, and they attempt to address the concerns specified in the goals and objectives (Chapter 2). After evaluating the results of the potential improvements analysis, a series of transportation system improvements were selected. These recommended improvements are described in Chapter 6.

Transportation System Plan

The TSP addresses each mode of transportation and provides an overall implementation program. The street system plan was developed from the forecasting and potential improvement evaluation described above. The bicycle and pedestrian plans were developed based on current usage, land use patterns, and the requirements set forth by the TPR. The public transportation, air, water, rail, and pipeline plans were developed based on discussions with the owners and operators of those facilities. Chapter 7 details the plan elements for each mode.

Funding Options

The city of Weston will need to work with Umatilla County and ODOT to finance new transportation projects over the 20-year planning period. An overview of funding and financing options that might be available to the community is described in Chapter 8.

Recommended Policies and Ordinances

Suggested Comprehensive Plan policies and implementing zoning and subdivision ordinances are included in Chapter 9. These policies and ordinances are intended to support the TSP and satisfy the requirements of the TPR.

LEGEND:

- - - - - URBAN GROWTH BOUNDARY
- CITY LIMITS

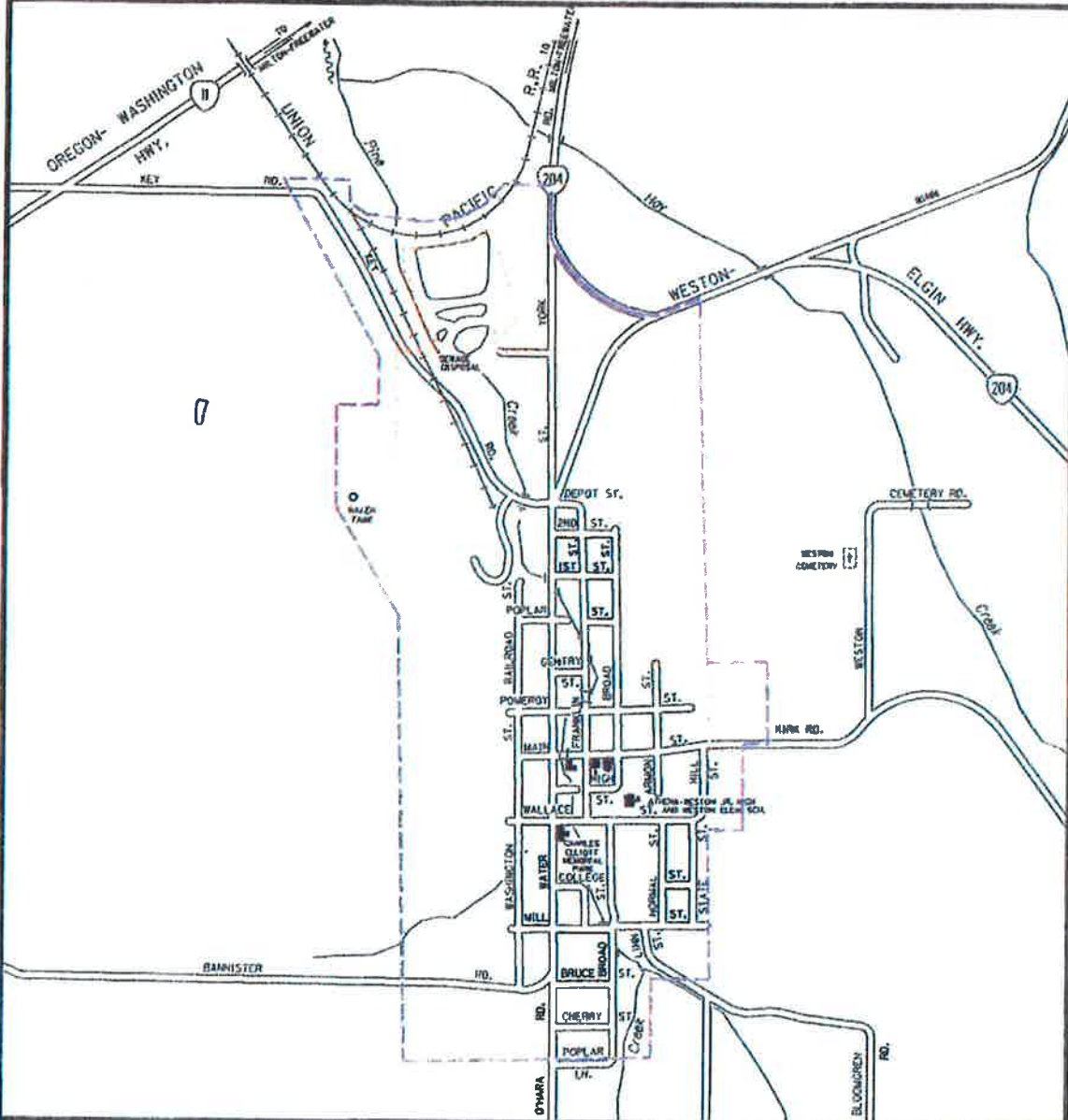


FIGURE 1-1

**Planning Area
- Weston**

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City of Weston TSP

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- Involving the Weston community (Chapter 1)
- Defining goals and objectives (Chapter 2)
- Reviewing existing plans and transportation conditions (Chapters 3, 4, and Appendices A and B)
- Developing population, employment, and travel forecasts (Chapter 5, and Appendix C)
- Developing and evaluating potential transportation system improvements (Chapter 6)
- Developing the Transportation System Plan and a capital improvement plan (Chapter 7)
- Evaluate funding options and develop financial plan(Chapter 8)
- Developing recommended policies and ordinances (Chapter 9)

Community Involvement

Community involvement is an integral component in the development of a TSP for the city of Weston, Umatilla County, and each of the other seven cities covered under the Umatilla County TSP process. Since the communities faced many similar transportation and land use issues, a public involvement program involving all the jurisdictions was used. This process allowed for individual attention when needed, and general problem solving for all jurisdictions as appropriate. Several different techniques were utilized to involve each local jurisdiction, ODOT, and the general public.

A combined management team and TAC provided guidance on technical issues and direction regarding policy issues to the consultant team. Staff members from each local jurisdiction and ODOT and a local resident from each community served on the TAC. This group met several times during the course of the project.

The second part of the community involvement effort consisted of community meetings within Umatilla County. The first public meeting was held in June 1998. The Weston general public was invited to learn about the TSP planning process and provide input on transportation issues and concerns. A second public meeting was held in July 1998. The third and final public meeting was held in September 1998. The public was notified of the public meetings through public announcements in the local newspapers and on the local radio station.

Goals and Objectives

Based on input from the community, the county, and the management team/TAC, a set of goals and objectives were defined for the TSP. These goals and objectives were used to make decisions about various potential improvement projects. They are described in Chapter 2.

Review and Inventory of Existing Plans, Policies, and Public Facilities

To begin the planning process, applicable Weston and Umatilla County transportation and land use plans and policies were reviewed and an inventory of public facilities was conducted. The purpose of these efforts was to understand the history of transportation planning in the Weston area, including the street system improvements planned and implemented in the past, and how the City is currently managing its ongoing development. Existing plans and policies are described in Appendix A of this report.

CHAPTER 1: INTRODUCTION

The City of Weston Transportation System Plan (TSP) guides the management of existing transportation facilities and the design and implementation of future facilities for the next 20 years. This TSP constitutes the transportation element of the City's Comprehensive Plan and satisfies the requirements of the Oregon Transportation Planning Rule (TPR) established by the Department of Land Conservation and Development. It identifies and prioritizes transportation projects for inclusion in the Oregon Department of Transportation's (ODOT's) Statewide Transportation Improvement Program (STIP).

PLANNING AREA

The city of Weston's TSP planning area covers the entire area within the Weston Urban Growth Boundary (UGB). Roadways included in the TSP fall under three jurisdictions: the city of Weston, Umatilla County, and the state of Oregon.

Weston has approximately 680 residents and is located in the northeastern portion of Umatilla County in the northeastern corner of Oregon. The City is one of the oldest cities in the county and has a charming, historical character. The City is built along the Pine Creek canyon with the downtown and roughly half of the residential area built on the valley floor. The industrial development and remaining homes are built on the hillsides. The downtown is a grid with one- and two-story brick buildings built out to the sidewalks. Commercial development and city services are concentrated along Main Street. Weston's two schools, the Athena-Weston Junior High and the Weston Elementary School, are located downtown off of Wallace Street. Industrial lands are located in the northern part of the UGB, near the railroad.

The only state facility that runs through the UGB is OR 204 (Weston-Elgin Highway). This highway connects the City to OR 11 in the north, and to the city of Elgin in Union County to the east (see Figure 1-1).

Three county roads exist within the UGB: Key Road (No. 682) running northwest-southeast in the northern portion of the UGB, McLean Road (No. 675) running north-south in the southern portion of the UGB, and Kirk Road (No. 648) in the eastern section of town. Several other county roads approach the UGB such as Bannister Road (No. 750) running east-west near the southern boundary of the UGB. The City has jurisdiction over the rest of the existing roadways located in the northwestern portion of the study area.

Agriculture, food processing, and education are important employment sectors in the City. Weston has two major food processing plants that are major employers for the City, as well as the surrounding towns. A large amount of the town is currently being farmed for wheat and peas. Additionally, the local schools provide many jobs.

PLANNING PROCESS

The Weston TSP was prepared as part of an overall effort in Umatilla County to prepare TSPs for Umatilla County and eight small municipalities: the cities of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston. Each plan was developed through a series of technical analyses combined with systematic input and review by the county, the cities, the management team, the Transportation Advisory Committee (TAC), ODOT, and the public. The TAC consisted of staff, elected and appointed officials, residents, and business people from Umatilla County, and the eight cities. Key elements of the process include:

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repave many local streets. A total of 14 projects have been identified in this estimate. Table 6-1 describes each of these projects including total pavement width, project length, and total construction cost.

**TABLE 6-1
STREET PAVING PROJECTS FOR THE CITY OF WESTON**

Project No.	Description/Location	Pavement Width*	Project Length	Total Cost
2A	Washington St. (Bannister Rd. to Pomeroy St.)	18 feet	2,300 feet	\$34,360
2B	Main St. (Water St. to Franklin St.)	50 feet	250 feet	\$10,380
2C	South Broad St. (Wallace St. to 1,112 feet south)	18 feet	1,112 feet	\$16,610
2D	Franklin St. (Wallace St. to High St.)	36 feet	290 feet	\$8,660
2E	Franklin St. (High St. to Main St.)	36 feet	215 feet	\$6,420
2F	Franklin St. (Main St. to 2nd Bridge)	25 feet	1,000 feet	\$20,750
2G	Franklin St. (2nd Bridge to 2nd St.)	20 feet	836 feet	\$13,880
2H	Franklin St. (2nd St. to Water St.)	18 feet	440 feet	\$6,570
2I	Water St. (Depot St. to Pomeroy St.)	36 feet	1,700 feet	\$50,800
2J	Water St. (Pomeroy St. to Main St.)	37 feet	330 feet	\$10,130
2K	Water St. (Main St. to High St.)	40 feet	226 feet	\$7,500
2L	Water St. (High St. to Wallace St.)	36 feet	324 feet	\$9,680
2M	Water St. (Wallace St. to end of curb)	36 feet	350 feet	\$10,460
2N	Water St. (End of curb to Washington St.)	36 feet	1,265 feet	\$37,800
2O	First St. (Water St. to Franklin St.)	20 feet	240 feet	\$3,980
2P	Arman St. (Main St. to Pomeroy St.)	20 feet	250 feet	\$4,150
2Q	West Mill St. (Water St. to Washington St.)	20 feet	261 feet	\$4,330
Total				\$256,460

Note: *The pavement width specified may be less than the actual street width in areas where gravel is provided along the shoulder(s) for on-street parking.

It should be noted that the pavement widths and total costs for several projects have been modified from the original estimate performed by Humbert Asphalt, Inc. This was done to ensure that all city street upgrades conform to the recommended street standards identified in Chapter 7. Most changes included establishing a minimum pavement width of 18 feet for local streets and a minimum pavement width of 36 feet for collector streets. In areas where the existing street pavement width exceeds the minimum requirements, the existing width was used in the estimate assuming a total asphalt overlay of the roadway.

The cost estimates for the projects identified above assume a construction cost of \$0.83 per square foot of pavement area. This includes cutting and cleaning the edges of streets, patching pot holes, tacking, preleveling the entire street with an average of 1 inch of asphalt, and then overlaying the entire street with 2 inches of asphalt, for a total asphalt overlay of around 3 inches.

Funding for these roadway projects will be provided by the City as funds become available.

Paving or repaving the city streets will improve the efficiency and aesthetics of the local street system, reduce air pollution from dust, and improve the general livability for the city residents. For these reasons, all street paving projects are recommended. The succession of these projects should be decided upon by the

City through a process of prioritization. It is also recommended that each of these projects include the addition of a pedestrian facility in accordance with the recommended street design standards for local and collector streets. However, this may not be possible due to limited city funds.

Option 3. Umatilla County Roadway Project (Key Road)

The Umatilla County Roadway Department has plans to improve Key Road between OR 11 and Water Street. The reason for including this county project as a street improvement option is because a portion of it falls within the UGB and city limits. This project has been ranked by the county as having the highest priority. Improvements will include roadway widening, alignment and shoulder work, and new pavement. This project is displayed in Figure 6-1.

The cost for these improvements is estimated to be \$300,000.

This project is recommended as it would improve the connection between Weston and OR 11 and major destinations.

Option 4. Implement Transportation Demand Management Strategies

Transportation demand management (TDM) strategies change the demand on the transportation system by providing facilities for modes of transportation other than single occupant passenger vehicles, implementing carpooling programs, altering work shift schedules, and applying other transportation measures within the community. The TPR recommends that cities evaluate TDM measures as part of their TSP.

TDM strategies are most effective in large, urban cities; however, some strategies can still be useful in small cities such as Weston. For example, staggering work shift schedules at local businesses may not be appropriate in Weston since there are a limited number of large employers in the area. However, provisions for alternative modes of transportation, such as sidewalks and bike lanes, and implementing a countywide carpooling program can be beneficial for residents of the City.

Weston can implement TDM strategies by requiring all future street improvement projects to include the addition of some sort of pedestrian facility, such as new sidewalks or walkways, which will effectively separate pedestrians from motorized traffic. All new street improvement projects should also consider bicycle lanes as well.

Implementing a local carpool program that only serves Weston would not be effective due to the City's geographical size and people living and working in different locations. However, a countywide carpool program is feasible. Residents who live in Weston and residents who live in other cities and rural areas should be encouraged to carpool with a fellow coworker or someone who works in the same area.

Although the primary goal of these measures is to reduce the number of vehicle trips made within the City, especially during peak periods, street capacity for automobiles and trucks is generally not an issue in Weston. At the same time, providing adequate facilities for pedestrians and bicyclists increases the livability of a city, and improves traffic and pedestrian safety. With more emphasis on walking or biking in the City, conditions such as air quality and noise levels would be improved as well. Therefore, this option is recommended.

Costs associated with implementing TDM strategies were not determined.

SUMMARY

Table 6-2 summarizes the recommendations of the street system modal plan based on the evaluation process described in this chapter. Chapter 7 discusses how these improvement options fit into the modal plans for the Weston area.

TABLE 6-2
TRANSPORTATION IMPROVEMENT OPTIONS: RECOMMENDATION SUMMARY

Option	Recommendation
1. Revise zoning code to allow and encourage mixed-use development and redevelopment	• Implement
2. Establish a roadway maintenance and improvement program	• Implement
3. Umatilla County roadway project (Key Road improvements)	• Implementation by county
4. Implement transportation demand management strategies	• Implement

CHAPTER 7: TRANSPORTATION SYSTEM PLAN

The purpose of this chapter is to provide detailed operational plans for each of the transportation systems within the community. The Weston TSP covers all the transportation modes that exist and are interconnected throughout the urban area. Components of the TSP include street classification standards, access management recommendations, transportation demand management measures, modal plans, and a system plan implementation program.

STREET DESIGN STANDARDS

Street design standards ensure the design of a roadway supports its intended function. The function is determined by operational characteristics such as traffic volume, operating speed, safety, and capacity. Street standards institute design parameters necessary to provide a community with roadways which are relatively safe, aesthetic, and easy to administer when new roadways are planned or constructed. They are based on experience, and policies and publications of the profession.

Existing Street Standards

The city of Weston has no designated street design standards. There are also no standards for bike or pedestrian facilities.

Recommended Street Standards

The development of the Weston TSP provides the City with an opportunity to review and revise street design standards to more closely fit with the functional street classification, and the goals and objectives of the TSP. The recommended street standards for all types of functional classifications are shown graphically in Figure 7-1 through Figure 7-2, and are summarized in Table 7-1. Further discussion of each type of street standard follows below.

Since the Weston TSP includes all land within the Urban Growth Boundary (UGB), the recommended street standards should be applied in the outlying areas outside the city limits and within the UGB. Although these outlying areas may presently have a rural appearance, these lands will ultimately be part of the urban area. Retrofitting rural streets in these areas as well as all rural streets within the city limits to urban standards in the future is expensive and controversial; it is more efficient to build them to an acceptable urban standard.

TABLE 7-1
RECOMMENDED STREET DESIGN STANDARDS

Classification	Pavement Width	Right-of-Way Width	Min. Posted Speed
Residential – Option 1	25-28 ft.	49-56 ft.	15-25 mph
Residential – Option 2	21ft.	45-49 ft.	15-25 mph
Residential – Option 3	32-34ft.	56-62 ft.	15-25 mph
Alley	12-16 ft.	16-20 ft.	15 mph
Collector	36-38 ft.	60-66 ft.	25-35 mph
Arterial	52 ft.	78-88 ft.	45 mph

Sidewalks shall be provided on arterial streets and should be included on all urban streets as an important component of the pedestrian system, unless the costs of sidewalks are excessively disproportionate to the need or probable use. Ideally, sidewalks should be buffered from the street by a planting strip to eliminate obstructions in the walkway, provide a more pleasing design, and provide a buffer from traffic. When sidewalks are located directly adjacent to the curb, they can include such impediments as mailboxes, street light, and sign poles, which reduce the effective width of the walk. To maintain a safe and convenient walkway for at least two adults, a 5 foot sidewalk should be used in residential areas.

Residential Streets

The design of a residential street affects its traffic operation, safety, and livability. The residential street should be designed to enhance the livability of the neighborhood while accommodating less than 1,200 vehicles per day. Design speeds should be 15 to 25 mph. When traffic volumes exceed approximately 1,000 to 1,200 vehicles per day, the residents on that street will perceive the traffic as a noise and safety problem. To maintain neighborhoods, local residential streets should be designed to encourage low speed travel and to discourage through traffic. Narrower streets discourage speeding and through traffic as well as improve neighborhood aesthetics. They also reduce right-of-way needs, construction costs, stormwater run-off, and the need to clear vegetation.

Three recommended street standard options are provided for residential streets, as shown in Figure 7-2. Each option provides a minimum of 20 feet of pavement and provides varying degrees of on-street parking. Paved walkways and planting strips shall be provided unless (a) the City determines they are precluded by physical constraints, such as steep slopes, wetlands, waterways, existing structures and mature trees, or (b) the city is unable to establish a rough proportionality between this requirement, and the nature and extent of impacts of the proposed development, in accordance with *Dolan v. City of Tigard* (US Supreme Court, 1994). The City should choose one of these options for each residential street based on the existing right-of-way and neighborhood character.

Option 1

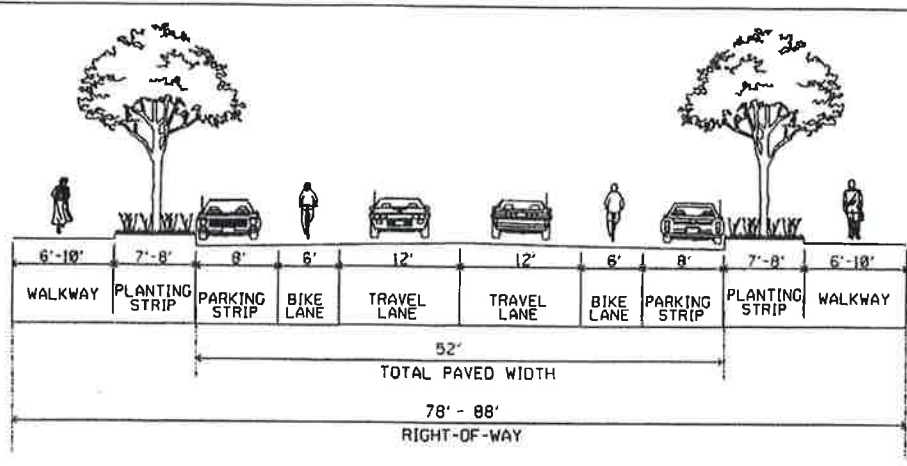
This first option for a local residential street is a 25-28 foot paved roadway surface within a 49 to 56 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction and a seven-foot parking strip on each side. Five to six foot sidewalks and seven to eight foot planting strips should be provided on each side of the roadway. The planting strips may be graded to accommodate parking in appropriate locations.

Option 2

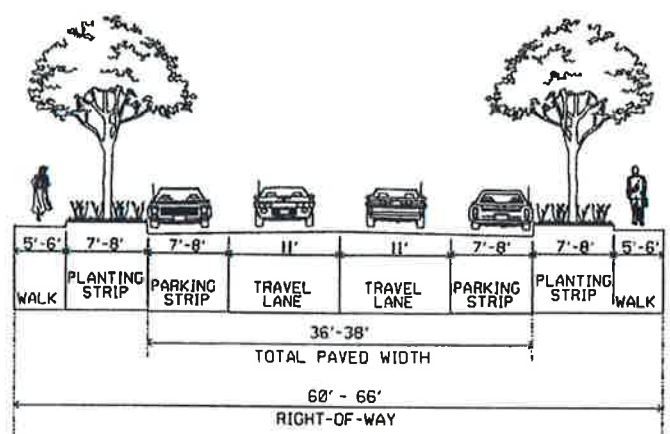
This option provides a 21 foot paved roadway surface within a 45 to 49 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with an eight foot paved parking strip on one side. Five to six foot sidewalks and seven to eight foot planting strips should be provided on each side of the roadway.

Option 3

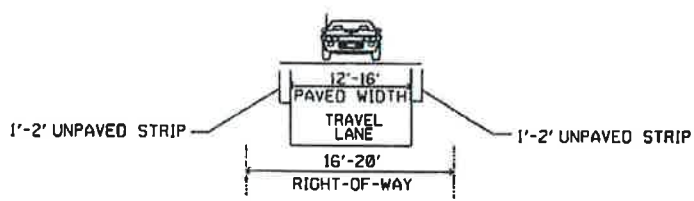
A third option for a residential street provides a 32 –34 foot paved roadway within a 56 to 62 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with seven-foot paved parking present along both sides of the road. Five to six foot sidewalks should be provided on both sides of the roadway in addition to seven to eight foot planting strips.




Arterial Roads



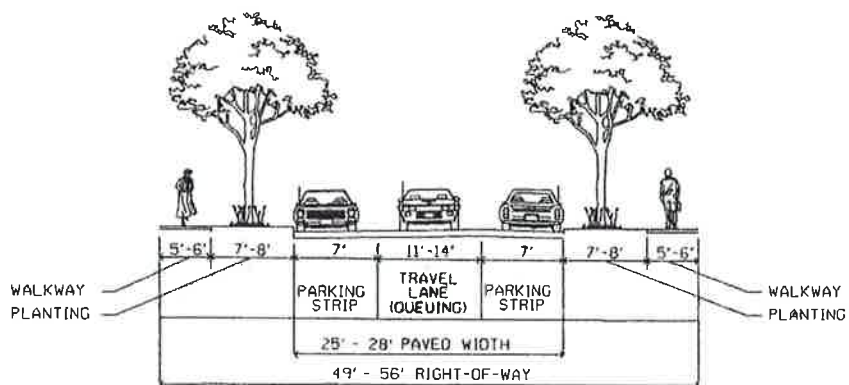
Collector Roads



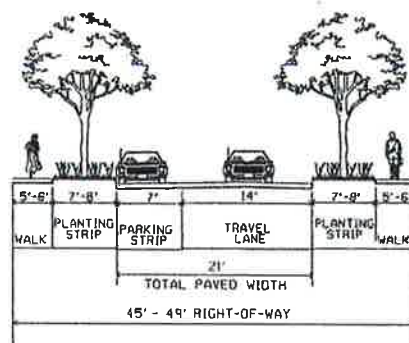
Alley

 <p>DAVID EVANS AND ASSOCIATES, INC. 2828 S.W. CORBETT AVENUE PORTLAND, OR 97201-4830 (503) 233-6663</p>	<p>(NOT TO SCALE)</p>	<p>FIGURE 7-1 Rural Street Standards Local, Minor Collector and Major Collector Roadways</p> <p style="text-align: right;">City of Weston TSP</p>
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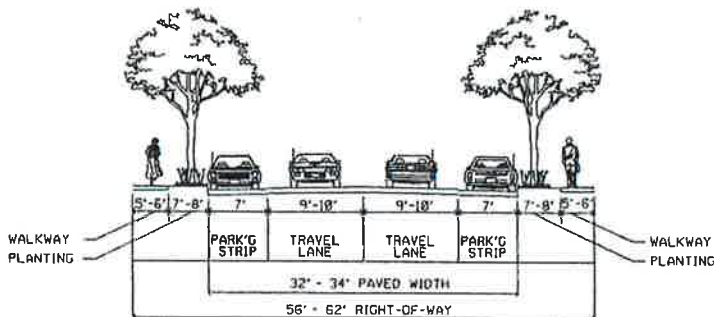
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Local Option 1



Local Option 2



Local Option 3


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(Not to Scale)

FIGURE 7-2

Rural Street Standards
 Local, Minor Collector and
 Major Collector Roadways

City of Weston TSP

UMCO0001/Weston/WTON7-1-2.dgn/TNT/4-13-01

Alleys

Alleys can be a useful way to diminish street width by providing rear access and parking to residential, commercial, and industrial areas. Including alleys in a residential subdivision allows homes to be placed closer to the street and eliminates the need for garages to be the dominant architectural feature. This pattern, once common, has been recently revived as a way to build better neighborhoods. In addition, alleys can be useful in commercial and industrial areas, allowing access by delivery trucks off the main streets. Alleys should be encouraged in the urban area of Weston. Alleys should be 12 to 16 feet wide, with a 16 to 20 foot right-of-way (see Figure 7-1).

Cul-de-Sac Streets

Cul-de-sac, or “dead-end” residential streets are intended to serve only the adjacent land in residential neighborhoods. These streets should be short (less than 400 feet long) and serve a maximum of 20 single-family houses. Because the streets are short and the traffic volumes relatively low, the street width can be narrower than a standard residential street, allowing for the passage of two lanes of traffic when no vehicles are parked at the curb and one lane of traffic when vehicles are parked at the curb.

Because cul-de-sac streets limit street and neighborhood connectivity, they should only be used where topographical or other environmental constraints prevent street connections. Where cul-de-sacs must be used, pedestrian and bicycle connections to adjacent cul-de-sacs or through-streets should be included.

Collector Streets

Collectors are intended to carry between 1,200 and 10,000 vehicles per day, including limited through-traffic, at a design speed of 25 to 35 mph. A collector can serve residential, commercial, industrial, or mixed land uses. Collectors are primarily intended to serve local access needs of residential neighborhoods by connecting local streets to arterials. Bike lanes are typically not needed in smaller cities like Weston due to slower traffic speeds and low traffic volumes. The recommended street standard provided for collectors, is shown in Figure 7-1. This recommended standard provides one lane of moving traffic in each direction plus parking on both sides and can also be striped to provide two travel lanes plus left-turn lanes at intersections or driveways by removing parking for short distances. Five to six-foot sidewalks should be provided on each side of the roadway. A planting strip has been included with a width of seven to eight feet, which may be used as parking. In the commercial zoning districts, including Downtown and mixed-use districts that permit commercial uses, a minimum of nine (9) foot wide curb-tight paved walkway with tree wells for street trees shall be installed instead of a walkway and planting strip. A least six (6) feet of walkway width shall be unobstructed by tree wells, poles, signs, fire hydrants, mailboxes, benches and other permanent objects. Obstructions shall not be placed in a manner that they impair visibility by motorists.

Arterial Streets

Arterial streets form the primary roadway network within and through a region. They provide a continuous roadway system that distributes traffic between different neighborhoods and districts. Generally, arterial streets are high capacity roadways that carry high traffic volumes with minimal localized activity. Design speeds should be between 25 and 45 mph (see Figure 7-1). The recommended design standard for arterial streets provides a 52-foot paved surface within a 78-88-foot right-of-way to allow for two 12-foot travel lanes, two six-foot bike lanes, and two eight-foot parking lanes. The bike lanes should be striped between the parking lane and the travel lane. Six to ten-foot sidewalks should be provided on each side of the roadway. A planting strip has been included with a width of seven to eight feet. In the commercial zoning districts, including Downtown and mixed-use districts that permit commercial uses, a minimum of nine (9) foot wide curb-tight paved walkway with tree wells for street trees shall be installed instead of a walkway and planting strip. A least six (6) feet of walkway width shall be unobstructed by tree wells, poles, signs, fire hydrants, mailboxes, benches and other permanent objects. Obstructions shall not be placed in a manner that they impair visibility by motorists.

Bike Lanes

In cases where a bikeway is proposed within the street right-of-way, 6 feet of roadway pavement should be striped on each side of the street and reserved for bike lanes. The striping should be done in conformance with the *State Bicycle and Pedestrian Plan* (1995). In cases where curb parking will exist with a bike lane, the bike lane will be located between the parking and travel lanes. In some situations, curb parking may have to be removed to permit a bike lane.

Bikeways should be added when a new street is built or improvements are made to existing streets.

On arterial and collector streets that are not scheduled to be improved as part of the street system plan, bike lanes may be added to the existing roadway to encourage cycling, or when forecast traffic volumes exceed 2,500 to 3,000 vehicles per day. The striping of bike lanes on streets that lead directly to schools should be high priority.

Sidewalks

A complete pedestrian system should be implemented in the urban portion of Weston. Every arterial street shall have sidewalks on both sides of the roadway as shown on the cross sections in Figure 7-1 through Figure 7-3, and every urban street should have sidewalks on both sides of the roadway unless the cost of providing sidewalks is excessively disproportionate to the need or probable use. Sidewalks on residential streets should be at least 5 feet wide. In addition, pedestrian and bicycle connections should be provided between any cul-de-sac and other dead-end streets.

Another essential component of the sidewalk system is street crossings. Intersections must be designed to provide safe and comfortable crossing opportunities. Tools to accomplish this include crosswalks, signal timing (to ensure adequate crossing time) when traffic signals are present, and other enhancements such as curb extensions, which are used to decrease pedestrian crossing distance and act as traffic calming measures.

Street Connectivity

Street connectivity is important because a well-connected street system provides more capacity and better traffic circulation than a disconnected one. Developing a grid system of relatively short blocks can minimize excessive volumes of motor vehicles along roads by providing a series of equally attractive or restrictive travel options. Short block sizes also benefit pedestrians and bicyclists by shortening travel distances and making travel more convenient. The average block sizes within the City's grid system range between 275 and 350 feet square, which are ideal block sizes. To ensure that this pattern of development continues into the future, a maximum block perimeter of 1,200 feet is recommended. This feature is critical to Weston's continued livability.

ACCESS MANAGEMENT

Access management is an important tool for maintaining a transportation system. Too many access points can diminish the function of an arterial, mainly due to delays and safety hazards created by turning movements. Traditionally, the response to this situation is to add lanes to the street. However, this can lead to increases in traffic and, in a cyclical fashion, require increasingly expensive capital investments to continue to expand the roadway.

Reducing capital expenditures is not the only argument for access management. Additional driveways along arterial streets lead to an increased number of potential conflict points between vehicles entering and exiting the driveway, and through vehicles on the arterial streets. This increases vehicle delay, deteriorates the level of service on the arterial, and reduces safety.

Research has shown a direct correlation between the number of access points and collision rates. In addition, the wider arterial streets that can ultimately result from poor access management can diminish the livability of a community. Therefore, it is essential that all levels of government maintain the efficiency of existing arterial streets through better access management.

Access Management Techniques

The number of access points to an arterial can be restricted through the following techniques:

- Restrictions on spacing between access points (driveways) based on the type of development and the speed along the arterial.
- Sharing of access points between adjacent properties.
- Providing access via collector or local streets where possible.
- Constructing frontage roads to separate local traffic from through-traffic.
- Providing service drives to prevent spill-over of vehicle queues onto the adjoining roadways.
- Providing acceleration, deceleration, and right-turn only lanes.
- Offsetting driveways to produce T-intersections to minimize the number of conflict points between traffic using the driveways and through traffic.
- Installing median barriers to control conflicts associated with left-turn movements.
- Installing barriers to the property along the arterial to restrict access width to a minimum.

Recommended Access Management Standards

Access management is hierarchical, ranging from complete access control on freeways to increasing use of streets for access purposes to including parking and loading at the local and minor collector level. Table 7-2 describes recommended general access management guidelines by roadway functional classification.

**TABLE 7-2
RECOMMENDED ACCESS MANAGEMENT STANDARDS**

Functional Classification	Intersections			
	Public Road		Private Drive ⁽²⁾	
	Type ⁽¹⁾	Spacing	Type	Spacing
Arterial Weston-Elgin Highway (OR 204)	See Access Management Spacing Standards, Appendix C of the 1999 Oregon Highway Plan			
Collector ⁽³⁾ Water Street, Winn Road, Key Road, Main Street, Bannister Road	at-grade	250 ft.	L/R Turns	100 ft.
Residential Street	at-grade	250 ft.	L/R Turns	Access to Each Lot
Alley (Urban)	at-grade	100 ft.	L/R Turns	Access to Each Lot

Notes:

- (1) For most roadways, at-grade crossings are appropriate.
- (2) Allowed moves and spacing requirements may be more restrictive than those shown to optimize capacity and safety. Also, see section on "Access Control Rights" along state highways below.
- (3) Some sections of these roads are designated as residential streets, where the residential access management standard applies.

Application

These access management standards are generally not intended to eliminate existing intersections or driveways. Rather, they should be applied as new development occurs. Over time, as land is developed and redeveloped, the access to roadways will meet these guidelines. However, where there is a recognized problem, such as an unusual number of collisions, these techniques and standards can be applied to retrofit existing roadways.

To summarize, access management strategies consist of managing the number of access points and providing traffic and facility improvements. The solution is a balanced, comprehensive system that provides reasonable access while maintaining the safety and efficiency of traffic movement.

State Highways

Access management is important to promoting safe and efficient travel for both local and long distance users along the Weston-Elgin Highway (OR 204) bordering the north UGB of Weston. The *1999 Oregon Highway Plan* specifies access management spacing standards and policies for state facilities.

Although Weston may designate state highways as arterial roadways within their transportation systems, the access management categories for these facilities should follow the Access Spacing Standards of the *1999 Oregon Highway Plan*. These spacing standards are based on highway classification, type of area and speed, which are shown in the appendix to this document. This section of the TSP describes the state highway access management objectives and specific highway segments where special access areas may apply.

The Weston-Elgin Highway is categorized in the 1999 Oregon Highway Plan as a Regional Highway. The management objective to regional urban highways is to provide for efficient and safe medium to high speed and medium to high volume traffic movements. There are no special highway segments identified in the 1999 Oregon Highway Plan that apply to the Weston-Elgin Highway in Weston.

ACCESS CONTROL RIGHTS

Historically, owners of property abutting public roadways have enjoyed a common law abutter's right of access to the roadway. However, in order to provide for a transportation system that would accommodate changing public needs, legislation has been passed to modify the rights of access. Oregon Revised Statutes specify among other property rights, the right of access can be purchased or condemned as deemed necessary for rights-of-way. The Oregon Department of Transportation has purchased access control rights from many properties along state highways.

Once the state has acquired the access rights to a property, road approach permits can only be issued at locations on the property where the right of access has been reserved. These "reservations of access" give the property owner the common law right of access to the state highway only at specific locations and they are clearly identified in the deed where the property owner sold the right of way to the state. If the owner wants to gain additional access rights to the highway, they must apply for a "grant" of access.

There may be local street connections shown in this Transportation System Plan that will require modifying the existing access rights or gaining additional access rights to the state highway system. Review of this TSP by ODOT does not imply tacit approval to modify or grant additional access rights. This must be accomplished by applying to ODOT for such modification or grant.

An "indenture of access" is used to modify existing access rights such as moving or widening the reservation or lifting other restrictions that may have been placed on it. A "grant of access" is required to gain an additional access point to the highway and, depending on the circumstances, may require payment to the state for the market value of the grant. Application for both the indenture and grant of access is made to local ODOT district office.

MODAL PLANS

The Weston modal plans have been formulated using information collected and analyzed through a physical inventory, forecasts, goals and objectives, and input from area residents. The plans consider transportation system needs for Weston during the next 20 years assuming the growth projections discussed in Chapter 5. The timing for individual improvements will be guided by the changes in land use patterns, growth of the population in future years, and available funds. Specific projects and improvement schedules may need to be adjusted depending on when and where growth occurs in Weston.

Street System Plan

The street system plan recommends any changes necessary to the current street classification system and outlines a series of improvements that are recommended for construction within the city of Weston during the next 20 years. These options have been discussed in Chapter 6 (Improvement Options Analysis). Projects which make up the proposed street system plan are summarized in Table 7-3.

Street System Functional Classification

Street system functional classifications relate the design of a roadway to its function. The function is determined by operational characteristics such as travel demand, street capacity, and the operating speed of the roadway. The city of Weston currently classifies all streets within the Urban Growth Boundary as either arterial, collector, or local streets. A review of the existing street system inventory, the recommended street design standards, and all new projects recommended in the street system plan indicates no changes are necessary at this time to the existing roadway functional classification. Therefore, the existing street classification will be maintained as shown in Figure 3-1 and described as follows:

- Weston-Elgin Highway (OR 204) – classified as an arterial roadway, as it is a Regional Highway, it carries the highest traffic volumes past the City, and it is the primary route to other cities in the county and state.
- Water Street (North UGB to south UGB) – classified as a collector street, as its function is to connect local neighborhoods with the downtown area, the Weston-Elgin Highway to the north, and OR 11 to the west via Key Road and Bannister Road.
- Winn Road (Water Street to Weston-Elgin Highway) – classified as a collector street, as its function is to connect local neighborhoods with the Weston-Elgin Highway to the northeast.
- Key Road (Water Street to OR 11) – classified as a collector street, as its function is to connect local neighborhoods with OR 11 to the northwest.
- Main Street (Water Street to east UGB) – classified as a collector street, as its function is to connect local neighborhoods to the downtown area and to Old Tolgate Highway, a county road leading east out of town.
- Bannister Road (West UGB to Water Street) – classified as a collector street, as its function is to connect local neighborhoods with OR 11 to the west.
- All other roads – classified as local streets.

Street Improvement Projects

Table 7-3 presents street improvement projects within the urban area that compose the street system plan. Prioritization of these projects is at the discretion of the City and/or county, depending upon jurisdiction over the project. The ODOT STIP project along the Weston-Elgin Highway (OR 204) and the county roadway project along Kirk Road (County Road # 648) have been omitted from the project list since these projects fall outside the city limits and Urban Growth Boundary and outside the jurisdiction of the City. The other county roadway project along Key Road (County Road #682) has been included in the street system plan since the project limits fall within the UGB and city limits.

It should be noted that the inclusion of a project in the TSP does not constitute a commitment by ODOT or the county that either agency will participate in the funding of the project. ODOT's participation will be determined via the biennial updates of the multi-year STIP process, and the construction of any project is contingent upon the availability of future revenues. The county's participation will be according to project prioritization as indicated in the Capital Improvement Plan, and contingent upon available funding.

**TABLE 7-3
RECOMMENDED STREET SYSTEM PROJECTS**

Project Number	Location/Description	Cost
3.	Key Rd. (OR 11 to Water St.)	\$300,000
2A	Washington St. (Bannister Rd. to Pomeroy St.)	\$34,360
2B	Main St. (Water St. to Franklin St.)	\$10,380
2C	South Broad St. (Wallace St. to 1,112 feet south)	\$16,610
2D	Franklin St. (Wallace St. to High St.)	\$8,660
2E	Franklin St. (High St. to Main St.)	\$6,420
2F	Franklin St. (Main St. to 2nd Bridge)	\$20,750
2G	Franklin St. (2nd Bridge to 2nd St.)	\$13,880
2H	Franklin St. (2nd St. to Water St.)	\$6,570
2I	Water St. (Depot St. to Pomeroy St.)	\$50,800
2J	Water St. (Pomeroy St. to Main St.)	\$10,130
2K	Water St. (Main St. to High St.)	\$7,500
2L	Water St. (High St. to Wallace St.)	\$9,680
2M	Water St. (Wallace St. to end of curb)	\$10,460
2N	Water St. (End of curb to Washington St.)	\$37,800
2O	First St. (Water St. to Franklin St.)	\$3,980
2P	Arman St. (Main St. to Pomeroy St.)	\$4,150
2Q	West Mill St. (Water St. to Washington St.)	\$4,330
Total		\$556,460

Pedestrian System Plan

A complete, interconnected pedestrian system should be implemented in the City when feasible. A sidewalk inventory revealed that there are sidewalks located mainly in the downtown core along Water Street and Main Street. Most local streets lack a pedestrian walkway. Every paved street should have sidewalks on both sides of the roadway, to meet the recommended street standards, except in extenuating circumstances. Continuous pedestrian access on walkways should be provided between businesses, parks, and adjacent neighborhoods. (Ordinances specifying these requirements are included in Chapter 9.)

Because of the small size of Weston and the limited public resources available for transportation system improvements, sidewalk construction on a large scale may not be feasible. However, the City should require sidewalks to be constructed as part of any major roadway improvements, or as adjacent land is developed.

The primary goal of establishing a pedestrian system is to improve pedestrian safety; however, an effective sidewalk system has several qualitative benefits as well. Providing adequate pedestrian facilities increases the livability of a city. When pedestrians can walk on a sidewalk, separated from vehicular street traffic, it makes the walking experience more enjoyable and may encourage walking, rather than driving, for short trips. Sidewalks enliven a downtown and encourage leisurely strolling and window shopping in commercial areas. This "main street" effect improves business for downtown merchants and provides opportunities for friendly interaction among residents. It may also have an appeal to tourists as an inviting place to stop and walk around.

The cost to construct a concrete sidewalk facility is approximately \$25 per linear foot. This assumes a sidewalk width of 5 feet with curbing. The cost estimate also assumes the sidewalks are composed of 4

inches of concrete and 6 inches of aggregate. As an alternative, asphalt walkways could be provided instead of a concrete sidewalk at a lower initial cost. Construction costs for this type of facility are typically about 40 percent of the costs for concrete sidewalks; however, maintenance, such as sealing and resurfacing the asphalt, must occur more frequently.

Bicycle System Plan

All new sidewalk construction in the City should include curb cuts for wheelchairs at every street corner to comply with the Americans with Disabilities Act (ADA). The addition of crosswalks should also be considered at all major intersections. As improvements are made to the existing street system, projects involving the construction of new sidewalks may require implementation of on-street parking in place of parking on grass or gravel shoulders.

On the collector and local streets in Weston, bicyclists share normal vehicle lanes with motorists. Due to low travel speeds and traffic volumes observed in the City, shared usage of the roadway between bicyclists and automobiles is appropriate.

The City is currently in the preliminary stages of planning a bicycle path in the south section of town around the area of Water Street, O'Hara Road, and Broad Street. Although no set route has been determined, there are several undeveloped parcels of land in the area that the City would like to use in developing a bicycle path. The exact details of this project have not been determined at this time.

Bicycle parking is lacking in Weston. Bike racks should be installed in front of downtown businesses and all public facilities (schools, post office, library, city hall, and parks). Typical rack designs cost about \$50 per bike plus installation. An annual budget of approximately \$1,500 to \$2,000 should be established so that Weston can begin to place racks where needs are identified and to respond to requests for racks at specific locations. Bicycle parking requirements are further addressed in Chapter 9 (Policies and Ordinances).

Transportation Demand Management Plan

Through transportation demand management (TDM), peak travel demands can be reduced or spread over time to more efficiently use the existing transportation system, rather than building new or wider roadways. Techniques which have been successful and could be initiated to help alleviate some traffic congestion include carpooling and vanpooling, alternative work schedules, bicycle and pedestrian facilities, and programs focused on high density employment areas.

In Weston, because traffic volumes are low, capacity of the local street system is not an issue. Therefore, implementing TDM strategies may not be practical in most cases. However, the sidewalk and bicycle improvements recommended earlier in this chapter are also considered TDM strategies. By providing these facilities, the city of Weston is encouraging people to travel by modes other than the automobile.

Because intercity commuting is a factor in Umatilla County, residents who live in Weston and work in other cities should be encouraged to carpool with a coworker or someone who works in the same area. Implementing a local carpool program in Weston alone is not practical because of the City's small size; however, a county-wide carpool program is feasible. The city of Weston should support state and county carpooling and vanpooling programs that could further boost carpooling ridership.

No costs have been estimated for the TDM plan. Grants may be available to set up programs; other aspects of transportation demand management can be encouraged through ordinances and policy.

Public Transportation Plan

As described in Chapter 3, the only intercity bus service in Umatilla County is provided by Greyhound bus lines which provides service along I-84, US 395, and OR 11 within Umatilla County. Greyhound has terminals located in Hermiston and Pendleton that connect these cities to each other and major population centers outside of the county. The Hermiston terminal has two departures heading southeast (with stops in Pendleton, La Grande, Boise, and Salt Lake City); three buses running west to Portland; and two buses heading north on US 395 to Pasco and Spokane daily. The Pendleton terminal has three departures southeast (with stops in La Grande, Boise and Salt Lake City); three departures west to Portland; and two departures north to Seattle via Walla Walla, Pasco, and Spokane daily.

Because of the small size of Weston, ridership demand is not high enough for Greyhound bus lines to feasibly provide service to the City. Bus service may be provided in the future to the city of Milton-Freewater, but Weston is located almost equidistant to Milton-Freewater as it is to the city of Pendleton, where service is already provided.

Pendleton, Hermiston, Pilot Rock, and the Umatilla Indian Reservation have dial-a-ride type service available for the transportation disadvantaged. Dial-a-ride service is defined as door-to-door service initiated by a user's request for transportation service from his/her origin to specific locations on an immediate or advance reservation basis. These services are provided by the Pendleton Senior Center in Pendleton, the Confederated Tribes of the Umatilla Indian Reservation on the Umatilla Indian Reservation, the Hermiston Senior Center in Hermiston, and the Pilot Rock Lions Club in Pilot Rock. A similar kind of service could be appropriate for Weston.

Weston has no local fixed-route transit service at this time. The small size and low traffic volumes on city streets indicate that mass transit is not necessary or economically feasible at this time. The TPR exempts cities with a population of less than 25,000 from developing a transit system plan or a transit feasibility study as part of their TSPs.

Rail Service Plan

Weston has no passenger or freight rail service. Until recently, Amtrak service was available in Hermiston and Pendleton along the rail line which follows the I-84 corridor from Portland to Boise, Idaho and points east. Amtrak is currently experiencing a funding crisis. As a result, passenger service between Portland and Denver, including service to cities within Umatilla County, was discontinued in May 1997. This line now serves only freight traffic.

Another freight line near Weston is the Union Pacific main line that runs through Pendleton and Hermiston. In addition, there is a switch line out of Pendleton which hauls freight from Pilot Rock two to three days per week.

Air Service Plan

Weston does not have its own air service within the City. However, there are many airport facilities nearby. Eastern Oregon Regional Airport is located in Pendleton, approximately 25 miles southwest of Weston, and provides commercial air service. Hermiston Municipal Airport is located in Hermiston, approximately 50 miles west of Weston, and provides chartered flights. Other small nearby airports in the county include: Barrett Field northwest of Athena, the Pea Growers' Field south of Athena, and Curtis Airfield northwest of Pendleton. These airports are small, private, uncontrolled airstrips mainly used for crop dusting operations.

Pipeline Service

The Pacific Northwest Gas pipeline runs north-south between Weston and Athena. Cascade Natural Gas provides natural gas to consumers in Weston from this pipeline. There are no plans at this time for expansion or relocation of this gas line.

Water Transportation

Weston has no water transportation services.

TRANSPORTATION SYSTEM PLAN IMPLEMENTATION PROGRAM

Implementation of the Weston TSP will require changes to both the City comprehensive plan and the zoning code and preparation of a 20-year Capital Improvement Plan (CIP). These actions will enable Weston to address both existing and emerging transportation issues throughout the urban area in a timely and cost effective manner.

One part of the implementation program is the formulation of a 20-year CIP. The purpose of the CIP is to detail what transportation system improvements will be needed as Weston grows and provide a process to fund and schedule the identified transportation system improvements. It is expected that the TSP Capital Improvement Plan can be integrated into the existing city and county CIP and the ODOT STIP. This integration is important since the TSP proposes that city, county, and state governmental agencies fund all or some of the transportation improvement projects.

Model policy and ordinance language that conforms with the requirements of the TSP is included in Chapter 9. The proposed ordinance amendments will require approval by the Weston City Council and those that affect the unincorporated urban area will also require approval by the Umatilla Board of County Commissioners.

20-Year Capital Improvement Program

Table 7-4 summarizes the CIP and provides cost information. The cost estimates for all the projects listed in the CIP were prepared on the basis of 1998 dollars. These costs include design, construction, and some contingency costs. They are preliminary estimates and generally do not include right-of-way acquisition, water or sewer facilities, or adding or relocating public utilities. The following schedule is not a prioritized list and scheduled implementation of these projects is at the discretion of the City and/or county, depending upon jurisdiction over the project.

Weston has identified a total of 18 projects in its CIP with a cost of \$556,460.

**TABLE 7-4
CAPITAL IMPROVEMENT PROGRAM
(1998 DOLLARS)**

Project No.	Location/Description	Costs (\$ x 1,000)				Total
		City	County	State	Private	
3.	Key Rd. (OR 11 to Water St.)		\$300.00			\$300.00
2A.	Washington St. (Bannister Rd. to Pomeroy St.)	\$34.36				\$34.36
2B	Main St. (Water St. to Franklin St.)	\$10.38				\$10.38
2C	South Broad St. (Wallace St. to 1,112 feet south)	\$16.61				\$16.61
2D	Franklin St. (Wallace St. to High St.)	\$8.66				\$8.66
2E	Franklin St. (High St. to Main St.)	\$6.42				\$6.42
2F	Franklin St. (Main St. to 2nd Bridge)	\$20.75				\$20.75
2G	Franklin St. (2nd Bridge to 2nd St.)	\$13.88				\$13.88
2H	Franklin St. (2nd St. to Water St.)	\$6.57				\$6.57
2I	Water St. (Depot St. to Pomeroy St.)	\$50.80				\$50.80
2J	Water St. (Pomeroy St. to Main St.)	\$10.13				\$10.13
2K	Water St. (Main St. to High St.)	\$7.50				\$7.50
2L	Water St. (High St. to Wallace St.)	\$9.68				\$9.68
2M	Water St. (Wallace St. to end of curb)	\$10.46				\$10.46
2N	Water St. (End of curb to Washington St.)	\$37.80				\$37.80
2O	First St. (Water St. to Franklin St.)	\$3.98				\$3.98
2P	Arman St. (Main St. to Pomeroy St.)	\$4.15				\$4.15
2Q	West Mill St. (Water St. to Washington St.)	\$4.33				\$4.33
Total		\$256.46	\$300.00	\$0	\$0	\$556.46

Note: TBD – To be determined at a later time.

CHAPTER 8: FUNDING OPTIONS AND FINANCIAL PLAN

The Transportation Planning Rule requires Transportation System Plans to evaluate the funding environment for recommended improvements. This evaluation must include a listing of all recommended improvements, estimated costs to implement those improvements, a review of potential funding mechanisms, and an analysis of existing sources' ability to fund proposed transportation improvement projects. Weston's TSP identifies 16 recommended projects costing over \$544,000 over the next 20 years. This section of the TSP provides an overview of Weston's revenue outlook and a review of some funding and financing options that may be available to the city of Weston to fund the improvements.

Pressures from increasing growth throughout much of Oregon have created an environment of estimated improvements that remain unfunded. Weston will need to work with Umatilla County and ODOT to finance the potential new transportation projects over the 20-year planning horizon. The actual timing of these projects will be determined by the rate of population and employment growth actually experienced by the community. This TSP assumes Weston will grow at a rate comparable to past growth, consistent with the county-wide growth forecast. If population growth exceeds this rate, the improvements may need to be accelerated. Slower than expected growth will relax the improvement schedule.

HISTORICAL STREET IMPROVEMENT FUNDING SOURCES

In Oregon, state, county, and city jurisdictions work together to coordinate transportation improvements. Table 8-1 shows the distribution of road revenues for the different levels of government within the state by jurisdiction level. Although these numbers were collected and tallied in 1991, ODOT estimates that these figures accurately represent the current revenue structure for transportation-related needs.

**TABLE 8-1
SOURCES OF ROAD REVENUES BY JURISDICTION LEVEL**

Revenue Source	Jurisdiction Level			All Funds
	State	County	City	
State Road Trust	58%	38%	41%	48%
Local	0%	22%	55%	17%
Federal Road	34%	40%	4%	30%
Other	9%	0%	0%	4%
Total	100%	100%	100%	100%

Source: ODOT 1993 Oregon Road Finance Study.

At the state level, nearly half (48 percent in Fiscal Year 1991) of all road-related revenues are attributable to the state highway fund, whose sources of revenue include fuel taxes, weight-mile taxes on trucks, and vehicle registration fees. As shown in the table, the state road trust is a considerable source of revenue for all levels of government. Federal sources (generally the federal highway trust account and federal forest revenues) comprise another 30 percent of all road-related revenue. The remaining sources of road-related revenues are generated locally, including property taxes, LIDs, bonds, traffic impact fees, road user taxes, general fund transfers, receipts from other local governments, and other sources.

As a state, Oregon generates 94 percent of its highway revenues from user fees, compared to an average of 78 percent among all states. This fee system, including fuel taxes, weight distance charges, and registration fees, is regarded as equitable because it places the greatest financial burden upon those who create the greatest need for road maintenance and improvements. Unlike many states that have indexed user fees to inflation, Oregon has static road-revenue sources. For example, rather than assessing fuel taxes as a *percentage* of price per gallon, Oregon's fuel tax is a fixed amount (currently 24 cents) per gallon.

Transportation Funding in Umatilla County

Historically, sources of road revenues for Umatilla County have included federal grants, state revenues, intergovernmental transfers, interest from the working fund balance, and other sources. Transportation revenues and expenditures for Umatilla County are shown in Table 8-2 and Table 8-3.

TABLE 8-2
UMATILLA COUNTY TRANSPORTATION-RELATED REVENUES

	1992-1993	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998
	Actual	Actual	Actual	Actual	Budget	Budget
Beginning Balance	\$1,187,957	\$992,044	\$903,997	\$1,762,230	\$1,600,000	\$1,300,000
DMV License & Gas Tax Fees	\$2,956,777	\$3,145,649	\$3,258,762	\$3,356,616	\$3,400,000	\$3,400,000
Misc. State Receipts			\$635,655	\$222,990	\$209,000	\$219,000
National Forest Rental	\$1,061,341	\$589,248	\$534,150	\$189,902	\$180,000	\$180,000
Mineral Leasing 75%				\$125		
Misc. Federal Receipts	\$1,968	\$1,670	\$1,208	\$77,681		
Interest on Invested Funds	\$72,834	\$38,672	\$77,885	\$92,220	\$75,000	\$75,000
Refunds & Reimbursements		\$75		\$338		
Sale of Public Lands	\$20,144	\$14,363	\$5,443	\$102	\$15,000	\$5,000
Rentals/Sale of Supplies	\$15,318	\$16,565	\$51,748	\$74,498	\$45,000	\$27,000
BLM Maintenance Agreement		\$2,000				
Misc. Receipts-Local	\$26,662	\$102,916	\$143,691	\$48,997		
Service Center	\$46,996	\$55,961	\$53,361	\$61,189	\$58,500	\$64,000
Rural Address fund					\$30,000	
	\$5,389,996	\$4,959,163	\$5,665,900	\$5,886,887	\$5,612,500	\$5,270,000

Source: Umatilla County.

As shown in Table 8-2, revenues remained relatively stable (between a low of just under \$5 million in 1993-1994 to a high of nearly \$5.9 million in 1995-1996). Approximately \$3 million of the annual revenues come from the state highway fund, rising slightly from \$3 million in 1992-1993 to an estimated \$3.4 million in 1996-1997. A declining amount has come from federal apportionment (mostly federal forest receipts). Twenty-five percent of federal forest revenue (the 25-percent fund) is returned to the counties based on their share of the total acreage of federal forests. Westside national forests in Oregon and Washington are subject to the Spotted Owl Guarantee, which limits the decline of revenues from these forests to three percent annually. Oregon Forests under the Owl Guarantee include the Deschutes, Mount Hood, Rogue River, Siskiyou, Siuslaw, Umpqua, and Willamette national forests. Forest revenues distributed to Umatilla County are from the Umatilla and Whitman forests, not subject to the Owl Guarantee and, therefore, are more difficult to predict. With a healthy working capital balance, the county has also been able to generate between \$40,000 and \$90,000 annually in interest on its invested funds.

TABLE 8-3
UMATILLA COUNTY TRANSPORTATION-RELATED EXPENDITURES

	1992-1993	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998
	Actual	Actual	Actual	Actual	Budget	Budget
Personal Services	\$1,908,211	\$1,878,969	\$1,956,968	\$2,077,603	\$2,260,676	\$2,304,704
Materials and Services	\$1,897,273	\$1,961,106	\$1,564,591	\$1,735,853	\$2,131,925	\$1,972,800
Capital Outlay	\$601,846	\$225,074	\$385,176	\$404,357	\$400,000	\$400,000
Contingency					\$568,840	\$334,224
Transfer to Road Improvement Fund					\$11,555	
Transfer to General Fund						\$58,272
	4,407,330	\$4,065,149	\$3,906,735	\$4,217,813	\$5,372,996	\$5,070,000

Source: Umatilla County.

As shown in Table 8-3, Umatilla County has spent between \$225,000 and \$600,000 annually in capital improvements. The county also transfers money to a road improvement fund for larger-scale capital improvements. The bulk of expenditures in the road fund are for personal services and materials and services relating to maintenance.

In addition to the road department fund, Umatilla County has a separate bicycle path fund. Its revenues and expenditure history are shown below in Table 8-4. Like the road fund, the bicycle path fund is developing a healthy working capital balance, supporting additional interest income, thereby reducing its dependence on the gas taxes collected through the state highway fund.

TABLE 8-4
UMATILLA COUNTY BICYCLE PATH FUND REVENUES AND EXPENDITURES

	1994-1995	1995-1996	1996-1997	1997-1998
	Actual	Actual	Budget	Budget
Beginning Fund Balance	\$230,059	\$260,652	\$299,775	\$349,775
Resources				
DMV License & Gas Tax Fees	\$32,917	\$32,946	\$34,000	\$34,000
Interest	\$13,073	\$16,251	\$16,000	\$18,000
	\$45,989	\$49,197	\$50,000	\$52,000
Expenditures				
Materials & Services	\$15,396		\$150,000	\$100,000
Capital Outlay				
	\$15,396	\$-	\$150,000	\$100,000

Source: Umatilla County.

Revenues and Expenditures in the City of Weston

Like most jurisdictions in Oregon, the city of Weston funds street operations, maintenance, and improvements through revenue from the state highway funds, interest from its working capital balance, and grants for specific projects. Generally, the state highway fund provides a large proportion of the revenues available for local jurisdiction's roadway moneys. Spending is typically disaggregated in the following categories: personal services, materials and equipment, and capital improvements, with the bulk of the expenditures used for maintenance and operations.

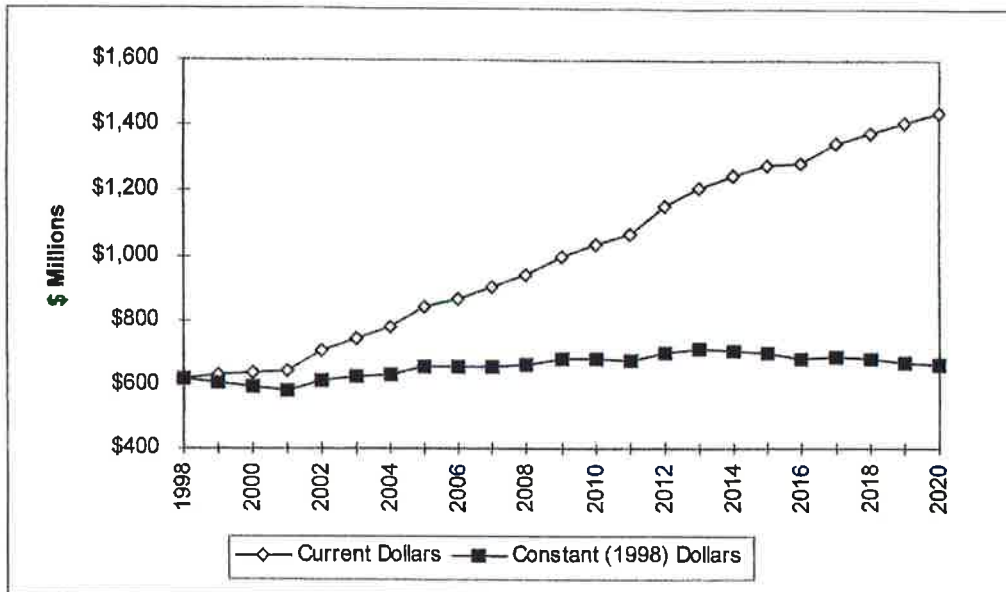
Transportation Revenue Outlook in the City of Weston

ODOT's policy section recommends certain assumptions in the preparation of transportation plans. In its *Financial Assumptions* document prepared in May 1998, ODOT projected the revenue of the state highway fund through year 2020. The estimates are based on not only the political climate, but also the economic structure and conditions, population and demographics, and patterns of land use. The latter is particularly important for state-imposed fees because of the goals in place under Oregon's Transportation Planning Rule (TPR) requiring a 10-percent reduction in per-capita vehicle miles of travel (VMT) in Metropolitan Planning Organization (MPO) areas by year 2015, and a 20-percent reduction by year 2025. This requirement will affect the 20-year revenue forecast from the fuel tax. ODOT recommends the following assumptions:

- Fuel tax increases of one cent per gallon per year (beginning in year 2002), with an additional one cent per gallon every fourth year.
- Vehicle registration fees would be increased by \$10 per year in 2002, and by \$15 per year in year 2012.
- Revenues will fall halfway between the revenue-level generated without TPR and the revenue level if TPR goals were fully met.
- Revenues will be shared among the state, counties, and cities on a "50-30-20 percent" basis rather than the previous "60.05-24.38-15.17 percent" basis.
- Inflation occurs at an average annual rate of 3.6 percent (as assumed by ODOT).

Figure 8-1 shows the forecast in both current-dollar and inflation-deflated constant (1998) dollars. As highlighted by the constant-dollar data, the highway fund is expected to grow slower than inflation early in the planning horizon until fuel-tax and vehicle-registration fee increases occur in year 2002, increase to a rate somewhat faster than inflation through year 2015, and continue a slight decline through the remainder of the planning horizon.

FIGURE 8-1
STATE HIGHWAY FUND (IN MILLIONS OF DOLLARS)



Source: ODOT Financial Assumptions.

As the state highway fund is expected to be a significant source of funding for Weston, the City is highly susceptible to changes in the state highway fund. In order to analyze the City's ability to fund the recommended improvements from current sources, DEA applied the following assumptions:

- ODOT state highway fund assumptions as outlined above.
- The state highway fund will account for the majority of the City's street fund.
- Interest and other local sources continue to provide stable revenue streams.
- The proportion of revenues available for capital expenditures for street improvements is estimated to have averaged \$1,000 annually.

Communities of similar size to Weston tend to have between \$1,000 and \$5,000 available annually to fund capital improvements from existing sources. To be conservative, this analysis will assume that the city of Weston has had approximately \$1,000 annually from existing sources to fund capital improvements. Applying this and the assumptions about the state highway fund as recommended by ODOT yields total resources between \$900 and \$1,200 as shown in Table 8-5.

TABLE 8-5
ESTIMATED RESOURCES AVAILABLE TO CITY OF WESTON
FROM STATE HIGHWAY FUND, 1998 DOLLARS

Year	Estimated Funds Available for Capital Outlay
1999	\$1,000
2000	\$1,000
2001	\$1,000
2002	\$900
2003	\$1,000
2004	\$1,000
2005	\$1,000
2006	\$1,100
2007	\$1,100
2008	\$1,100
2009	\$1,100
2010	\$1,100
2011	\$1,100
2012	\$1,100
2013	\$1,100
2014	\$1,200
2015	\$1,100
2016	\$1,100
2017	\$1,100
2018	\$1,100
2019	\$1,100
2020	\$1,100

The amount actually received from the state highway fund will depend on a number of factors, including the actual revenue generated by state gasoline taxes, vehicle registration fees, and other sources, and the population growth in Weston (since the distribution of state highway funds is based on an allocation formula which includes population).

REVENUE SOURCES

In order to finance the recommended transportation system improvements requiring expenditure of capital resources, it will be important to consider a range of funding sources. Although the property tax has traditionally served as the primary revenue source for local governments, property tax revenue goes into general fund operations, and is typically not available for road improvements or maintenance. Despite this limitation, the use of alternative revenue funding has been a trend throughout Oregon as the full implementation of Measures 5 and 47 have significantly reduced property tax revenues (see below). The alternative revenue sources described in this section may not all be appropriate in Weston; however, this overview is being provided to illustrate the range of options currently available to finance transportation improvements during the next 20 years.

Property Taxes

Property taxes have historically been the primary revenue source for local governments. However, property tax revenue goes into general fund operations, and is not typically available for road improvements or maintenance.

The dependence of local governments on this revenue source is due, in large part, to the fact that property taxes are easy to implement and enforce. Property taxes are based on real property (i.e., land and buildings) which has a predictable value and appreciation to base taxes upon. This is as opposed to income or sales taxes, which can fluctuate with economic trends or unforeseen events.

Property taxes can be levied through: 1) tax base levies, 2) serial levies, and 3) bond levies. The most common method uses tax base levies, which do not expire and are allowed to increase by 6 percent per annum. Serial levies are limited by the amounts and times they can be imposed. Bond levies are for specific projects and are limited by time based on the debt load of the local government or the project.

The historic dependence on property taxes is changing with the passage of Ballot Measure 5 in the early 1990s. Ballot Measure 5 limits the property tax rate for purposes other than payment of certain voter-approved general obligation indebtedness. Under full implementation, the tax rate for all local taxing authorities is limited to \$15 per \$1,000 of assessed valuation. As a group, all non-school taxing authorities are limited to \$10 per \$1,000 of assessed valuation. All tax base, serial, and special levies are subject to the tax rate limitation. Ballot Measure 5 requires that all non-school taxing districts' property tax rate be reduced if together they exceed \$10 per \$1,000 per assessed valuation by the county. If the non-debt tax rate exceeds the constitutional limit of \$10 per \$1,000 of assessed valuation, then all of the taxing districts' tax rates are reduced on a proportional basis. The proportional reduction in the tax rate is commonly referred to as compression of the tax rate.

Measure 47, an initiative petition, was passed by Oregon voters in November 1996. It is a constitutional amendment that reduces and limits property taxes and limits local revenues and replacement fees. The measure limits 1997-98 property taxes to the lesser of the 1995-96 tax minus 10 percent, or the 1994-95 tax. It limits future annual property tax increases to 3 percent, with exceptions. Local governments' lost revenue may be replaced only with state income tax, unless voters approve replacement fees or charges. Tax levy approvals in certain elections require 50 percent voter participation.

The state legislature created Measure 50, which retains the tax relief of Measure 47 but clarifies some legal issues. This revised tax measure was approved by voters in May 1997.

The League of Oregon Cities (LOC) estimated that direct revenue losses to local governments, including school districts, will total \$467 million in fiscal year 1998, \$553 million in 1999, and increase thereafter. The actual revenue losses to local governments will depend on actions of the Oregon Legislature. LOC also estimates that the state will have revenue gains of \$23 million in 1998, \$27 million in 1999, and increase thereafter because of increased personal and corporate tax receipts due to lower property tax deduction.

Measure 50 adds another layer of restrictions to those which govern the adoption of tax bases and levies outside the tax base, as well as Measure 5's tax rate limits for schools and non-schools and tax rate exceptions for voter approved debt. Each new levy and the imposition of a property tax must be tested against a longer series of criteria before the collectible tax amount on a parcel of property can be determined.

System Development Charges

System Development Charges (SDCs) are becoming increasingly popular in funding public works infrastructure needed for new local development. Generally, the objective of systems development charges is to allocate portions of the costs associated with capital improvements upon the developments, which increase demand on transportation, sewer or other infrastructure systems.

Local governments have the legal authority to charge property owners and/or developers fees for improving the local public works infrastructure based on projected demand resulting from their development. The charges are most often targeted towards improving community water, sewer, or transportation systems. Cities and counties must have specific infrastructure plans in place that comply with state guidelines in order to collect SDCs.

SDCs are collected when new building permits are issued. Transportation SDCs are based on trip generation of the proposed development. Residential calculations would be based on the assumption that a typical household will generate a given number of vehicle trips per day. Nonresidential use calculations are based on employee ratios for the type of business or industrial uses. The SDC revenues would help fund the construction of transportation facilities necessitated by new development.

State Highway Fund

Gas tax revenues received from the state of Oregon are used by all counties and cities to fund roads, and road construction and maintenance. In Oregon, the state collects gas taxes, vehicle registration fees, overweight/overheight fines and weight/mile taxes and returns a portion of the revenues to cities and counties through an allocation formula. Like other Oregon cities, the city of Weston uses its state gas tax allocation to fund street construction and maintenance.

Local Gas Taxes

The Oregon Constitution permits counties and incorporated cities to levy additional local gas taxes with the stipulation that the moneys generated from the taxes will be dedicated to road-related improvements and maintenance within the jurisdiction. At present, only a few local governments (including the cities of Woodburn and The Dalles and Multnomah and Washington counties) levy a local gas tax. The city of Weston may consider raising its local gas tax as a way to generate additional road improvement funds. However, with relatively few jurisdictions exercising this tax, an increase in the cost differential between gas purchased in Weston and gas purchased in neighboring communities may encourage drivers to seek less expensive fuel elsewhere. Any action will need to be supported by careful analysis to minimize the unintended consequences of such an action.

Vehicle Registration Fees

The Oregon vehicle registration fee is allocated to the state, counties and cities for road funding. Oregon counties are granted authority to impose a vehicle registration fee covering the entire county. The Oregon Revised Statutes would allow Umatilla County to impose a biannual registration fee for all passenger cars licensed within the county. Although both counties and special districts have this legal authority, vehicle registration fees have not been imposed by local jurisdictions. In order for a local vehicle registration fee program to be viable in Umatilla County, all the incorporated cities and the county would need to formulate an agreement which would detail how the fees would be spent on future road construction and maintenance.

Local Improvement Districts

The Oregon Revised Statutes allow local governments to form Local Improvement Districts (LIDs) to construct public improvements. LIDs are most often used by cities to construct localized projects such as streets,

sidewalks or bikeways. The statutes allow formation of a district by either the city government or property owners. Cities that use LIDs are required to have a local LID ordinance that provides a process for district formation and payback provisions. Through the LID process, the cost of local improvements is generally spread out among a group of property owners within a specified area. The cost can be allocated based on property frontage or other methods such as traffic trip generation. The types of allocation methods are only limited by the Local Improvement Ordinance. The cost of LID participation is considered an assessment against the property which is a lien equivalent to a tax lien. Individual property owners typically have the option of paying the assessment in cash or applying for assessment financing through the City. Since the passage of Ballot Measure 5, cities have most often funded local improvement districts through the sale of special assessment bonds.

GRANTS AND LOANS

There are a variety of grant and loan programs available, most with specific requirements relating to economic development or specific transportation issues, rather than for the general construction of new streets. Many programs require a match from the local jurisdiction as a condition of approval. Because grant and loan programs are subject to change and statewide competition, they should not be considered a secure long-term funding source. Most of the programs available for transportation projects are funded and administered through ODOT and/or the Oregon Economic Development Department (OEDD). Some programs that may be appropriate for the city of Weston are described below. The primary contact for information on the following programs is ODOT Region 5, which can be reached at (541) 963-3177.

Bike-Pedestrian Grants

By law (ORS 366.514), all road, street or highway construction or reconstruction projects must include facilities for pedestrians and bicyclists, with some exceptions. ODOT's Bike and Pedestrian Program administers two programs to assist in the development of walking and bicycling improvements: local grants, and Small-Scale Urban Projects. Cities and counties with projects on local streets are eligible for local grant funds. An 80 percent state/20 percent local match ratio is required. Eligible projects include curb extensions, pedestrian crossings and intersection improvements, shoulder widening and restriping for bike lanes. Projects on urban state highways with little or no right of way taking and few environmental impacts are eligible for Small-Scale Urban Project Funds. Both programs are limited to projects costing up to \$100,000. Projects that cost more than \$100,000, require the acquisition of ROW, or have environmental impacts should be submitted to ODOT for inclusion in the STIP.

Access Management

The Access Management Program sets aside approximately \$500,000 a year to address access management issues. One primary component of this program is an evaluation of existing approach roads to state highways. These funds are not committed to specific projects, and priorities and projects are established by an evaluation process.

Enhancement Program

This federally funded program earmarks \$8 million annually for projects in Oregon. Projects must demonstrate a link to the intermodal transportation system, compatibility with approved plans, and local financial support.

A 10.27 percent local match is required for eligibility. Each proposed project is evaluated against all other proposed projects in its region. Within the five Oregon regions, the funds are distributed on a formula based on population, vehicle miles traveled, number of vehicles registered and other transportation-related criteria. The solicitation for applications was mailed to cities and counties the last week of October 1998. Local jurisdictions have until January 1999 to complete and file their applications for funding available during the 2000-2003 fiscal years that begin October 1999.

Highway Bridge Rehabilitation or Replacement Program

The Highway Bridge Rehabilitation or Replacement Program (HBRR) provides federal funding for the replacement and rehabilitation of bridges of all functional classifications. A portion of the HBRR funding is allocated for the improvement of bridges under local jurisdiction. A quantitative ranking system is applied to the proposed projects based on sufficiency rating, cost factor, and load capacity. They are ranked against other projects statewide, and require state and local matches of 10 percent each. It includes the Local Bridge Inspection Program and the Bridge Load Rating Program.

Transportation Safety Grant Program

Managed by ODOT's Transportation Safety Section (TSS), this program's objective is to reduce the number of transportation-related accidents and fatalities by coordination a number of statewide programs. These funds are intended to be used as seed money, funding a program for three years. Eligible programs include programs in impaired driving, occupant protection, youth, pedestrian, speed, enforcement, bicycle and motorcycle safety. Every year, TSS produces a Highway Safety Plan that identifies the major safety programs, suggests countermeasures to existing safety problems, and lists successful projects selected for funding, rather than granting funds through an application process.

Federal Transit Administration (FTA) Section 5311-Non-urbanized Area Formula Program

Section 5311 is a federally sponsored program for general public transit services in small urban and rural areas. It supports both capital and operation needs. The ODOT Public Transit Division distributes these funds. In FY00, the cities of Pendleton and Milton-Freewater received these funds to support transportation programs for the general public. The city of Weston would be eligible for these funds if it implemented intercity service or intracity services open to the general public. The recipient of these funds must provide matching funds of up to 50 percent for operating uses and up to 20 percent for capital expenses.

Section 5311(f) – Part of 5311 funds is allocated to intercity services. Intercity transit services connect communities to rail, bus and air hubs. These funds can be used for both capital and operating expenses. Local revenues must match these funds. Match requirements are the same as those for 5311 funds.

Surface Transportation Program (STP) Funds

TEA-21, the Federal Transportation Efficiency Act for the 21st Century, that funds programs for highways and transit, permits surface transportation program funding flexibility between modes. This gives the state more latitude in selecting the modal alternatives that would best address local congestion problems. STP funds are generally limited to capital projects with a few exceptions. In non-urbanized areas ODOT has the

responsibility of allocating these funds. In Weston, ODOT Region 5 makes funding decisions with public input.

Department of Labor Welfare-to-Work Program

The US Department of Labor provides grants to communities to give transitional assistance to move welfare recipients into unsubsidized employment. One of the areas applicants are encouraged to consider is the development of responsive transportation systems to move people to work or to career training. These grants must serve at least 100 welfare recipients. The Department of Labor expects the grants to range from one million to five million dollars over a period of three years. Applications must be a coordinated effort between transportation providers and Oregon Adult and Family Services. The funding can be used for capital and operating expenses and will cover up to 50 percent of the cost of a program.

ODOT has submitted a grant application for funding for Oregon programs. ODOT identified the Bend/Redmond area as the first demonstration program. Other areas of the state may be eligible after that. To be eligible for this funding, it is essential that communities bring together local ODOT staff, transit providers and AFS staff to begin the coordination process.

FTA Section 5310 Discretionary Grants

This program funds vehicles and other capital projects for programs that serve elderly and disabled people. In FY99 the city of Pendleton received \$36,000 to purchase a new vehicle.

Special Transportation Fund

The Special Transportation Fund (STF) awards funds to maintain, develop, and improve transportation services for people with disabilities and people over 60 years of age (Weston is already using this fund to finance its Dial-A-Ride program). Financed by a two-cent tax on each pack of cigarettes sold in the state, the annual distribution is approximately \$5 million. Three-quarters of these funds are distributed on a per-capita formula to mass transit districts, transportation districts, where such districts do not exist, and counties. The remaining funds are distributed on a discretionary basis.

County Allotment Program

The County Allotment Program distributes funds to counties on an annual basis; the funds distributed in this program are in addition to the regular disbursement of state highway fund resources. The program determines the amount of total revenue available for roads in each county and the number of road miles (but not lane miles) of collectors and arterials under each county's jurisdiction. Using these two benchmarks, a "resource-per-equivalent" ratio is calculated for each county. Resources from the \$750,000 program are provided to the county with the lowest resource-per-equivalent road-mile ratio until they are funded to the level of the next-lowest county. The next-lowest county is then provided resources until they are funded to the level of the third-lowest county, and so on, until the fund is exhausted.

Immediate Opportunity Grant Program

The Oregon Economic Development Department (OEDD) and ODOT collaborate to administer a grant program designed to assist local and regional economic development efforts. The program is funded to a level of approximately \$7 million per year through state gas tax revenues. The following are primary factors in determining eligible projects:

- Improvement of public roads.
- Inclusion of an economic development-related project of regional significance.
- Creation or retention of primary employment.
- Ability to provide local funds (50/50) to match grant.
- Improvement to the quality of the community.

The maximum amount of any grant under the program is \$500,000. Local governments that have received grants under the program include Washington County, Multnomah County, Douglas County, the city of Hermiston, port of St. Helens, and the city of Newport.

Oregon Special Public Works Fund

The Special Public Works Fund (SPWF) program was created by the 1995 State Legislature as one of several programs for the distribution of funds from the Oregon Lottery to economic development projects in communities throughout the state. The program provides grant and loan assistance to eligible municipalities primarily for the construction of public infrastructure which support commercial and industrial development that result in permanent job creation or job retention. To be awarded funds, each infrastructure project must support businesses wishing to locate, expand, or remain in Oregon. SPWF awards can be used for improvement, expansion, and new construction of public sewage treatment plants, water supply works, public roads, and transportation facilities.

While SPWF program assistance is provided in the form of both loans and grants, the program emphasizes loans in order to assure that funds will return to the state over time for reinvestment in local economic development infrastructure projects. Jurisdictions that have received SPWF funding for projects that include some type of transportation-related improvement include the cities of Baker City, Bend, Cornelius, Forest Grove, Madras, Portland, Redmond, Reedsport, Toledo, Wilsonville, Woodburn, and Douglas County.

Oregon Transportation Infrastructure Bank

The Oregon Transportation Infrastructure Bank (OTIB) program is a revolving loan fund administered by ODOT to provide loans to local jurisdictions (including cities, counties, special districts, transit districts, tribal governments, ports, and state agencies). Eligible projects include construction of federal-aid highways, bridges, roads, streets, bikeways, pedestrian accesses, and right of way costs. Capital outlays such as buses, light-rail cars and lines, maintenance yards and passenger facilities are also eligible.

ODOT FUNDING OPTIONS

The state of Oregon provides funding for all highway related transportation projects through the Statewide Transportation Improvement Program (STIP) administered by the Oregon Department of Transportation. The STIP outlines the schedule for ODOT projects throughout the state. The STIP, which identifies projects for a three-year funding cycle, is updated on an annual basis. In developing this funding program, ODOT must verify that the identified projects comply with the Oregon Transportation Plan (OTP), ODOT Modal Plans, Corridor Plans, local comprehensive plans, and federal planning requirements. The STIP must fulfill federal planning requirements for a staged, multi-year, statewide, intermodal program of transportation projects. Specific transportation projects are prioritized based on a review of the TEA-21 planning requirements and the different state plans. ODOT consults with local jurisdictions before highway related projects are added to the STIP.

The highway-related projects identified in Weston's TSP will be considered for future inclusion on the STIP. The timing of including specific projects will be determined by ODOT based on an analysis of all the project needs within Region 5. The city of Weston, Umatilla County, and ODOT will need to communicate on an annual basis to review the status of the STIP and the prioritization of individual projects within the project area. Ongoing communication will be important for the city, county, and ODOT to coordinate the construction of both local and state transportation projects.

ODOT also has the option of making some highway improvements as part of their ongoing highway maintenance program. Types of road construction projects that can be included within the ODOT maintenance programs are intersection realignments, additional turn lanes, and striping for bike lanes. Maintenance related construction projects are usually done by ODOT field crews using state equipment. The maintenance crews do not have the staff or specialized road equipment needed for large construction projects.

An ODOT funding technique that will likely have future application to Weston's TSP is the use of state and federal transportation dollars for off-system improvements. Until the passage and implementation of ISTEA, state and federal funds were limited to transportation improvements within highway corridors. ODOT now has the authority and ability to fund transportation projects that are located outside the boundaries of the highway corridors. The criteria for determining what off-system improvements can be funded has not yet been clearly established. It is expected that this new funding technique will be used to finance local system improvements that reduce traffic on state highways or reduce the number of access points for future development along state highways.

FINANCING TOOLS

In addition to funding options, the recommended improvements listed in this plan may benefit from a variety of financing options. Although often used interchangeably, the words financing and funding are not the same. Funding is the actual generation of revenue by which a jurisdiction pays for improvements, some examples include the sources discussed above: property taxes, SDCs, fuel taxes, vehicle registration fees, LIDs, and various grant programs. In contrast, financing refers to the collecting of funds through debt obligations.

There are a number of debt financing options available to the city of Weston. The use of debt to finance capital improvements must be balanced with the ability to make future debt service payments and to deal with the impact on its overall debt capacity and underlying credit rating. Again, debt financing should be viewed not as a source of funding, but as a time shifting of funds. The use of debt to finance these transportation-system improvements is appropriate since the benefits from the transportation improvements

will extend over the period of years. If such improvements were to be tax financed immediately, a large short-term increase in the tax rate would be required. By utilizing debt financing, local governments are essentially spreading the burden of the costs of these improvements to more of the people who are likely to benefit from the improvements and lowering immediate payments.

General Obligation Bonds

General obligation (GO) bonds are voter-approved bond issues which represent the least expensive borrowing mechanism available to municipalities. GO bonds are typically supported by a separate property tax levy specifically approved for the purposes of retiring debt. The levy does not terminate until all debt is paid off. The property tax levy is distributed equally throughout the taxing jurisdiction according to assessed value of property. GO debts typically used to make public improvement projects that will benefit the entire community.

State statutes require that the GO indebtedness of a city not exceed 3 percent of the real market value of all taxable property in the city. Since GO bonds would be issued subsequent to voter approval, they would not be restricted to the limitations set forth in Ballot Measures 5, 47, and 50. Although new bonds must be specifically voter approved, Measure 47 and 50 provisions are not applicable to outstanding bonds, unissued voter-approved bonds, or refunding bonds.

Limited Tax Bonds

Limited tax general obligation (LTGO) bonds are similar to GO bonds in that they represent an obligation of the municipality. However, a municipality's obligation is limited to its current revenue sources and is not secured by the public entity's ability to raise taxes. As a result, LTGO bonds do not require voter approval. However, since the LTGO bonds are not secured by the full taxing power of the issuer, the limited tax bond represents a higher borrowing cost than GO bonds. The municipality must pledge to levy the maximum amount under constitutional and statutory limits, but not the unlimited taxing authority pledged with GO bonds. Because LTGO bonds are not voter approved, they are subject to the limitations of Ballot Measures 5, 47, and 50.

Bancroft Bonds

Under Oregon Statute, municipalities are allowed to issue Bancroft bonds which pledge the City's full faith and credit to assessment bonds. As a result, the bonds become general obligations of the City but are paid with assessments. Historically, these bonds provided a city with the ability to pledge its full faith and credit in order to obtain a lower borrowing cost without requiring voter approval. However, since Bancroft bonds are not voter approved, taxes levied to pay debt service on them are subject to the limitations of Ballot Measures 5, 47, and 50. As a result, since 1991, Bancroft bonds have not been used by municipalities who were required to compress their tax rates.

FUNDING REQUIREMENTS

Weston's TSP identifies both capital improvements and strategic efforts recommended during the next 20 years to address safety and access problems and to expand the transportation system to support a growing population and economy. The TSP identifies 16 projects estimated to cost over \$540,000 over the 20-year

planning horizon. The bulk of these projects are street paving projects, identified as part of the Roadway Maintenance and Improvement Program, which will be funded as City resources become available. Estimated costs by project are shown in Table 8-6.

**TABLE 8-6
RECOMMENDED PROJECTS AND FINANCIAL RESPONSIBILITY**

Project No.	Location/Description	Costs (\$ x 1,000)				Total
		City	County	State	Private	
3.	Key Rd. (OR 11 to Water St.)		\$300.00			\$300.00
2A	Washington St. (Bannister Rd. to Pomeroy St.)	\$34.36				\$34.36
2B	Main St. (Water St. to Franklin St.)	\$10.38				\$10.38
2C	South Broad St. (Wallace St. to 1,112 ft south)	\$16.61				\$16.61
2D	Franklin St. (Wallace St. to High St.)	\$8.66				\$8.66
2E	Franklin St. (High St. to Main St.)	\$6.42				\$6.42
2F	Franklin St. (Main St. to 2nd Bridge)	\$20.75				\$20.75
2G	Franklin St. (2nd Bridge to 2nd St.)	\$13.88				\$13.88
2H	Franklin St. (2nd St. to Water St.)	\$6.57				\$6.57
2I	Water St. (Depot St. to Pomeroy St.)	\$50.80				\$50.80
2J	Water St. (Pomeroy St. to Main St.)	\$10.13				\$10.13
2K	Water St. (Main St. to High St.)	\$7.50				\$7.50
2L	Water St. (High St. to Wallace St.)	\$9.68				\$9.68
2M	Water St. (Wallace St. to end of curb)	\$10.46				\$10.46
2N	Water St. (End of curb to Washington St.)	\$37.80				\$37.80
2O	First St. (Water St. to Franklin St.)	\$3.98				\$3.98
2P	Arman St. (Main St. to Pomeroy St.)	\$4.15				\$4.15
2Q	West Mill St. (Water St. to Washington St.)	\$4.33				\$4.33
Total		\$256.46.	\$300.00	\$0	\$0	\$556.46

Note: TBD — To be determined at a later time.

Based on current revenue sources for the city of Weston as estimated in Table 8-5 and the improvements identified in this Transportation System Plan, the City is expected to experience a budget deficit, as shown in Table 8-7.

**TABLE 8-7
ESTIMATED CAPITAL FUNDING BALANCE**

	Amount
Capital Available from Existing Revenue Sources	\$22,500
Capital Needed to Fund Projects Identified as City-Funded Projects	\$256.46
Surplus (Deficit)	(\$233.96)

This transportation system plan identifies 16 projects recommended over the next 20 years. Based on existing revenue sources and the estimated costs to implement the improvements, the city of Weston is expected to experience a budget shortfall of over \$200,000 over the 20-year planning horizon. The City will need to work with Umatilla County and ODOT to explore alternative funding sources. As noted earlier, the bulk of the projects (all of the projects requiring city funding) are street paving projects identified as part of the Roadway Maintenance and Improvement Program. This program identified paving needs that will be funded and implemented as city resources become available. These projects may be eligible for enhancement or other alternative funding, as described earlier in this chapter. However, as part of the City's regular maintenance efforts, such projects are not typically considered eligible for specific grant funds.

APPENDIX A

Weston Plans

WESTON COMPREHENSIVE PLAN

The Weston Comprehensive Plan was adopted in 1978 and amended in 1979. The Comprehensive Plan was prepared by the Comprehensive Plan Work Group comprised of planners, citizens, and officials.

According to the Plan, the small town and historic character of Weston is valued by citizens as one of the city's primary assets. The City would like to retain the ambiance of Weston while experiencing moderate population and employment growth.

Some of the most salient concerns of the citizenry involve the transportation system. Results of a survey taken in 1978 showed that much of the community was disturbed by the poor condition of streets and/or curbs and gutters in much of the town. The City recognizes the maintenance of county and state roads and the railroad as essential to the economic health of the community. The Plan states that the railroad is an especially vital link for Weston, because it makes the city attractive to industry. Easy access to OR 11 and Highway 204 north of the town is also critical. Citizens see a need for public transportation linking Weston with other communities, especially for seniors.

The Comprehensive Plan lists two goals which impact the transportation system directly, economic development and transportation.

Goal 11: Transportation

To provide and encourage a safe, convenient and economic transportation system.

Objectives

1. The development of good transportation routes (vehicular, pedestrian, bicycle, etc.) between residential areas and major activity centers will be encouraged.
2. The development of alternative means of transportation to the private automobile will be encouraged.

Applicable Policies

1. Continued maintenance and paving of city streets to be provided, especially unpaved roads.
2. The continued availability of rail transportation routes will be encouraged.
3. Encourage the provision of transportation alternatives for elderly and handicapped residents.

Goal 8: Economic Development

Applicable Policies

1. To continue efforts to maintain a central commercial area with a concentration retail and service businesses, professional offices, financial institutions and public services in order to accommodate business and shopping needs, minimize conflicts with residential and industrial uses, provide economic stability, reduce costs to the public, and maximize pedestrian movements.

Characteristics of the town which influence the transportation system plan are presented in the Plan. Relevant findings include the following:

- The City is built along the canyon of Pine Creek. The downtown area and half of the residential area are built on the valley floor, while the industrial plants and remaining residences are located on the hillsides sloping down to the creek.
- Approximately two thirds of the area within the city limits is developed for urban use the remaining third is primarily wheat fields.
- Downtown is the sole commercial district. It has an historic character with one and two-story brick buildings with storefronts built out to the sidewalk. Community facilities are concentrated downtown.
- Major industry is provided by wheat/pea rotating cropland. Two food processing facilities are the primary employers. These plants generate a fairly strong tax base for the city.
- Creating a parkway along Pine Creek with bikepath and trail has been discussed.
- County and state roads and the Union Pacific Railroad provide transportation access to the community and their continued availability and maintenance is essential. The railroad is an especially vital link as it makes the community more attractive for industries.
- In many parts of town, the streets and/or curbs and gutters are in poor condition, a situation that disturbs much of the community. Extensive repairs and construction is required to correct this situation.
- Weston is not located astride the main highways of the area, but the city is easily accessed by the Oregon-Washington Highway 11 and Elgin Highway 204 at the north end of town.
- There is a need for public transit between Weston and nearby communities, especially to help older residents reach destinations outside the city.

City of Weston Growth Report

The Weston Growth Report was last amended in 1979, and much of the data may be outdated. However, the population has only grown by 40 people (650 to 690) between 1979 and 1996, so much of the city may not have changed.

The buildable lands inventoried in 1979, were broken into three categories-- residential areas, commercial areas, and industrial areas. The vacant, buildable, industrial lands comprised 53.7 acres, all in the northern industrial district along the railroad right-of-way. The buildable commercial lands totaled 12.3 acres, all within the downtown area. These lands were comprised of 2.3 acres of vacant land and 10 acres of redevelopable residential land. Buildable residential lands were comprised of individual lots scattered throughout the city and regions located on the edges of UGB. The Growth Report estimated that 171.9 acres of buildable residential land and 108 vacant building sites could provide for 505 new dwellings. It estimated that the City could accommodate a population of 1,900 people.

Zoning Ordinance

The Weston Zoning Ordinance was adopted in 1979.

The purported intent and purpose of Zoning Ordinance is as follows:

to promote a good quality of development within the community and provide an opportunity for citizens and City officials to review and comment on development plans. By governing the location of land uses and setting standards to guide the siting of structures and provision of improvements on lots, the Zoning Ordinance is an attempt to insure that new development will enhance the community, fit into the landscape and neighborhood, and provide good living, working, and business environments.

The development of zones and standards for this Ordinance was governed by the City policies stated in the Comprehensive Plan for the purpose of promoting the public health, safety, and welfare, encouraging the appropriate use of property, stabilizing and protecting property values, providing adequate light and air, preventing overcrowding, avoiding conflicts between adjacent land uses, and balancing the rights of the individual with those of their neighbors.

The Ordinance contains four sections-- Introduction, Use Zones, Supplementary Development Standards, and Administration. The only sections that apply directly to the transportation, are the sections on off-street parking and miscellaneous standards which requires access to all newly partitioned lots.

APPENDIX B

1997 Major Street Inventory

According to the 1990 Census, 16.5 percent of the 57,046 persons living in Umatilla County (for whom poverty status is determined) were below poverty level. Poverty statistics are based on a threshold of nutritionally-adequate food plans by the Department of Agriculture for the specific size of the family unit in question. The distribution of the population below poverty level shows that a larger proportion of younger persons than older populations are affected by this indicator, as shown in the following table.

**Poverty Status
Umatilla County--1990 Census**

	Below Poverty Level			Total* Population	Percent of Total Population Below Poverty
	Male	Female	Total Below Poverty Level		
11 and under	1,408	1,175	2,583	10,929	23.6%
12 to 17	481	517	998	5,223	19.1%
18 and over	2,300	3,538	5,838	40,894	14.3%
Total	4,189	5,230	9,419	57,046	16.5%

* For whom poverty status is determined.

Source: U.S. Census Bureau.

The Census Bureau reports that 3.3 percent of the population 16 and older had a mobility limitation in 1990. Persons were identified as having a mobility limitation if they had a health condition (physical and/or mental) that lasted for six or more months and which made it difficult to go outside the home alone. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Using the proportion of the population with mobility limitations and below the poverty level¹ in 1990, DEA estimated the number of people with specific transportation needs in 1996. The following table shows that an estimated 34.8 percent of the population may have specific transportation needs. (There is likely to be some overlap between the 3.3 percent of the population with mobility limitations and the 14.5 percent below the poverty level; therefore, the sum of the figures may overstate the proportion of the population with specific transportation needs.)

**Estimated Population with Specific Transportation Needs
1996, Umatilla County**

	Percent of Total Population	Estimated Number
Persons between the ages of 5 and 15	17.0%	11,115
Persons 16 and older under Poverty Level	14.5%	9,480
Persons 16 and older with Mobility Limitation	3.3%	2,130
Total Specific Transportation Needs Population	34.8%	22,725

¹ DEA used the Census Bureau's age disaggregation to estimate that 10.7 percent of the population over the age of 16 was under the poverty level in 1990.

Source: U.S. Census Bureau.

Planning for the overall transportation system will need to consider the special needs of these populations.

HISTORICAL GROWTH

The population of Umatilla County has grown since the 1970s, with significantly slower growth in the 1980s, reflecting a general slowdown in the state's economy. Helix, Pilot Rock, and Weston actually experienced a net population loss between 1970 and 1990. The following table shows the population trend for Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston, and Umatilla County as a whole.

Umatilla County Historical Population Trend

	1970	1980	1985	1990	1995	1997	1970-1990 Change	
							Number	CAARG*
Umatilla County	44,923	58,855	60,000	59,249	65,200	65,500	14,326	1.4%
Adams	219	240	245	223	260	265	4	0.1%
Athena	872	965	955	997	1,080	1,120	125	0.7%
Echo	479	624	605	499	530	585	20	0.2%
Helix	152	155	155	150	170	190	(2)	(0.1%)
Pilot Rock	1,612	1,630	1,630	1,478	1,560	1,585	(134)	(0.4%)
Stanfield	891	1,568	1,660	1,568	1,700	1,770	677	2.9%
Ukiah	N.A.	249	230	250	270	240	N/A	N/A
Weston	660	719	730	606	655	680	(54)	(0.4%)

* Compound Average Annual Rate of Growth

Ukiah was incorporated in July 1972.

Source: Portland State University Center for Population Research and Census.

The number of people residing in Stanfield nearly doubled between 1970 and 1980. This population growth may have been fueled by some significant housing developments and the location of several food processing plants in Stanfield during this time.

POPULATION AND EMPLOYMENT FORECASTS

Umatilla County is expected to experience population gains for the next 20 years. Like much of rural Oregon, the economy of Umatilla County remains largely seasonal, with nearly one-quarter of all employment agriculture-based. Therefore, population increases are difficult to predict, and are not likely to be as stable as the forecasts appear to imply.

The State Office of Economic Analysis prepared long-term population projections by county. Based on these projections and the methodology described above, preliminary population forecasts for the jurisdictions of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston were developed in five-year increments.

An ad-hoc HUES (Hermiston, Umatilla, Echo, and Stanfield) Impact Planning Group was formed in early 1997 to lead cooperative efforts to address growth concerns in western Umatilla County arising from four major employers locating or expanding in the region. The HUES Growth Impact Study, conducted by the Benkendorf Associates Corporation, Hobson Johnson & Associates, and Martin Davis Consulting, quantifies the impact of the construction and operation of these four facilities. Employment impacts are translated into household and population impacts, and disaggregated across the four HUES communities, Pendleton, and rural Umatilla County.

Of these four employers (the Two Rivers Correctional Institution, the Umatilla Chemical Agent Disposal Facility, the Union Pacific Railroad Hinkle Locomotive Shop, and the Wal-Mart Distribution Center and Truck Maintenance Facility), only one (the Wal-Mart Distribution Center) had been announced and incorporated in the long-range population and employment forecast prepared by the Office of Economic Analysis. Because the Umatilla County site was selected as the location for the Wal-Mart Distribution Center in 1994, its impacts were already incorporated in the Office of Economic Analysis long-term population and employment forecast. Applying the HUES methodology, DEA, Inc. subtracted out the impact of the Wal-Mart Distribution Center, in order to identify the population impacts resulting from the three "big four" employers otherwise not accounted for in the OEA forecast.

HUES Population Impacts by Community
HUES Study "Scenario One" Less Wal-Mart Distribution Center

	Base Population	Population Impact		
	1996	2000	2005	2007
Hermiston	11,050	1,681	2,354	1,412
Umatilla	3,310	503	705	423
Echo*	530	81	113	68
Stanfield	1,755	267	374	224
HUES communities subtotal		2,531	3,545	2,128
Pendleton		223	313	188
Rural Umatilla County		223	313	188
Total Population Impact		2,978	4,171	2,503

* The HUES study estimates Echo's base population using utility hook-up data and a 2.5 average household size. However, this methodology yields a base-year estimate inconsistent with the "official" state estimate. As required by state policy, the Transportation System Plan uses the official state estimate as the base population. As appropriate, the TSP uses utility hook-up data as the base number of households.

Source: HUES Growth Impact Study and David Evans and Associates, Inc.

These estimated impacts were then applied to the original population forecast for Echo and Stanfield by the mathematical model. The resulting population forecast is shown in five-year increments in the table below.

Umatilla County Population Forecast

	1995						1995-2000	1995-2017
		2000	2005	2010	2015	2017	CAARG	CAARG
Umatilla County	65,200	72,800	77,000	78,300	79,500	80,073	2.2%	0.9%
Adams	260	270	280	290	300	310	0.7%	0.8%
Athena	1,080	1,160	1,210	1,270	1,330	1,360	1.4%	1.1%
Echo	530	610	640	650	660	660	2.9%	1.0%
Helix	170	190	210	220	230	230	2.7%	1.4%
Pilot Rock	1,560	1,580	1,600	1,610	1,640	1,650	0.3%	0.3%
Stanfield	1,700	2,020	2,130	2,290	2,430	2,490	3.5%	1.8%
Ukiah	270	290	310	320	340	340	1.6%	1.1%
Weston	655	690	700	710	720	730	1.0%	0.5%

Source: 1995 estimates developed by Portland State University Center for Population Research and Census; long-term County forecasts developed by State of Oregon Office of Economic Analysis; and Jurisdiction forecasts and intermediate County forecasts developed by David Evans and Associates, Inc.

Overall, Umatilla County is expected to experience healthy rates of population growth, averaging nearly one percent annually over the planning horizon. As shown in the table, the western portion of Umatilla County is expected to grow faster than the rest of Umatilla County, fueled by the four major employers. Of all jurisdictions included in this analysis, Stanfield is expected to grow the fastest, at an annual average of 3.5 percent at the beginning of the planning horizon, slowing somewhat, but still achieving a very rapid average annual rate of 1.8 percent for the 20-year planning period.

1997 MAJOR STREETS INVENTORY														
Weston Transportation System Plan														
Roadway Segment Location	Jurisdiction	Level of Impartance	Speed Limit (mph)	Street Width (feet)	No. of Travel Lanes	Passing Lanes (direction)	Width (feet)	Shoulders	Faving	On-Street Parking	Curbs	Sidewalks	Bikeway	1997 Pavement Condition*
Arterials														
No state highways run through the Weston city limits.														
Collectors (current functioning)														
County Road No. 750 - Banister Road	County	NA	25	?	2	No	No	NA	NA	No	No	No	No	Fair
West UGB Limits to Gentry														
Main Street	City	NA	25	50	2	No	No	NA	NA	Yes	Yes	Both Sides	No	Poor
Water Street to Broad Street														
Broad Street to Arman Street														
Water Street	City	NA	35	30	2	No	No	NA	NA	East Side	Yes	West Side	No	Fair
Depot Street to Gentry Street														
Gentry Street to Pomeroy Street														
Pomeroy Street to Wallace Street														
Wallace Street to Mill Street														
Winn Road	City	NA	25	22	2	No	No	NA	NA	No	No	No	No	Fair
Water Street to North UGB Limits														
York Street	City	NA	35	24	2	No	No	NA	NA	No	No	No	No	Poor
North UGB Limits to Depot Street														
Key Road	County	NA	35	24	2	No	No	NA	NA	No	No	No	No	Fair
North UGB Limits to Depot Street														

* Pavement condition information for arterials is from the 1997 ODOT Pavement Condition Report. Condition information for collectors is based on field survey conducted by DEA in November 1997.

APPENDIX C

Umatilla County Population Discussion

Umatilla County Population Discussion

METHODOLOGY AND DATA SOURCES

Population estimates and projections were developed from historical data, official annual estimates, official long-range forecasts, and an impact analysis of four major employers entering or expanding in western Umatilla County. Historical data are compiled as reported by the Census Bureau. Portland State University's Center for Population Research and Census developed annual population estimates for cities and counties for the purpose of allocating certain state tax revenues to cities and counties. The State of Oregon Office of Economic Analysis (OEA) provided long-term (through year 2040) state population forecasts, disaggregated by county, for state planning purposes.

The Office of Economic Analysis used business-cycle trends (as reflected by the Employment Department's employment forecasts) as the primary driver of population and employment for the short term. For the long term, the forecasts shift to a population-driven model, which emphasizes demographics of the resident population, including age and gender of the population, with assumptions regarding life expectancy, fertility rate, and immigration. DEA used a methodology based on OEA's county-distribution methodology in developing population and employment forecasts for each of the cities in Umatilla County. DEA calculated a weighted average growth rate for each jurisdiction (weighting recent growth more heavily than past growth) and combined this average growth rate with the projected county-wide growth rate. This methodology assumes convergence of growth rates because of the physical constraints of any area to sustain growth rates beyond the state or county average for long periods of time. These constraints include availability of land and housing, congestion, and other infrastructure limitations.

These preliminary forecasts were used as a basis for discussion with individuals who have local knowledge and expertise. The projections were then revised based on local input and analysis. One element that had a significant impact on the population analysis was the HUES (Hermiston, Umatilla, Echo, and Stanfield) Growth Impact Study, conducted by the Benkendorf Associates Corporation, Hobson Johnson & Associates, and Martin Davis Consulting, which quantifies the impact of the construction and operation of four major employers.

As required by state policy, this forecast is consistent with the State of Oregon Office of Economic Analysis forecast at the end of the 20-year planning period. Because of the impact of the four large employers, however, the growth of Umatilla County will occur faster in the beginning of the planning horizon, slowing to compensate near the end of the planning period.

These population and employment forecasts were developed to determine future transportation needs. The amount of growth, and where it occurs, will affect traffic and transportation facilities in the study area. This report is not intended to provide a

complete economic forecast or housing analysis, and it should not be used for any purpose other than that for which it was designed.

CURRENT POPULATION AND EMPLOYMENT LEVEL

Estimated at 65,500 in 1997, the population of Umatilla County has grown relatively rapidly since the 1990 Census, with an average annual growth rate of over one-and-one-half percent. The following table shows the estimated change in population for Umatilla County and the jurisdictions of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston for 1990 and 1996.

Umatilla County Population Level 1990 and 1996

	1990	1997	1990-1997 Change	
			Number	CAARG*
Umatilla County	59,249	65,500	6,251	1.4%
Adams	223	265	42	2.5%
Athena	997	1,120	123	1.7%
Echo	499	585	86	2.3%
Helix	150	190	40	3.4%
Pilot Rock	1,478	1,585	107	1.0%
Stanfield	1,568	1,770	202	1.7%
Ukiah	250	240	-10	-0.6%
Weston	606	680	74	1.6%

* Compound Average Annual Rate of Growth

Source: Portland State University Center for Population Research and Census.

Most of the jurisdictions in Umatilla County have grown at a healthy rate, comparable to the annual growth rate of 1.4 percent for the county overall. The smaller jurisdictions of Adams and Helix have grown at a slightly faster rate, starting from the smaller population bases of 223 (Adams) and 150 (Helix) in 1990.

Populations with Specific Transportation Needs

Certain populations have been identified as having more intensive transportation needs than the general population. These populations include people under the legal driving age, those under the poverty level, and those with mobility limitations.

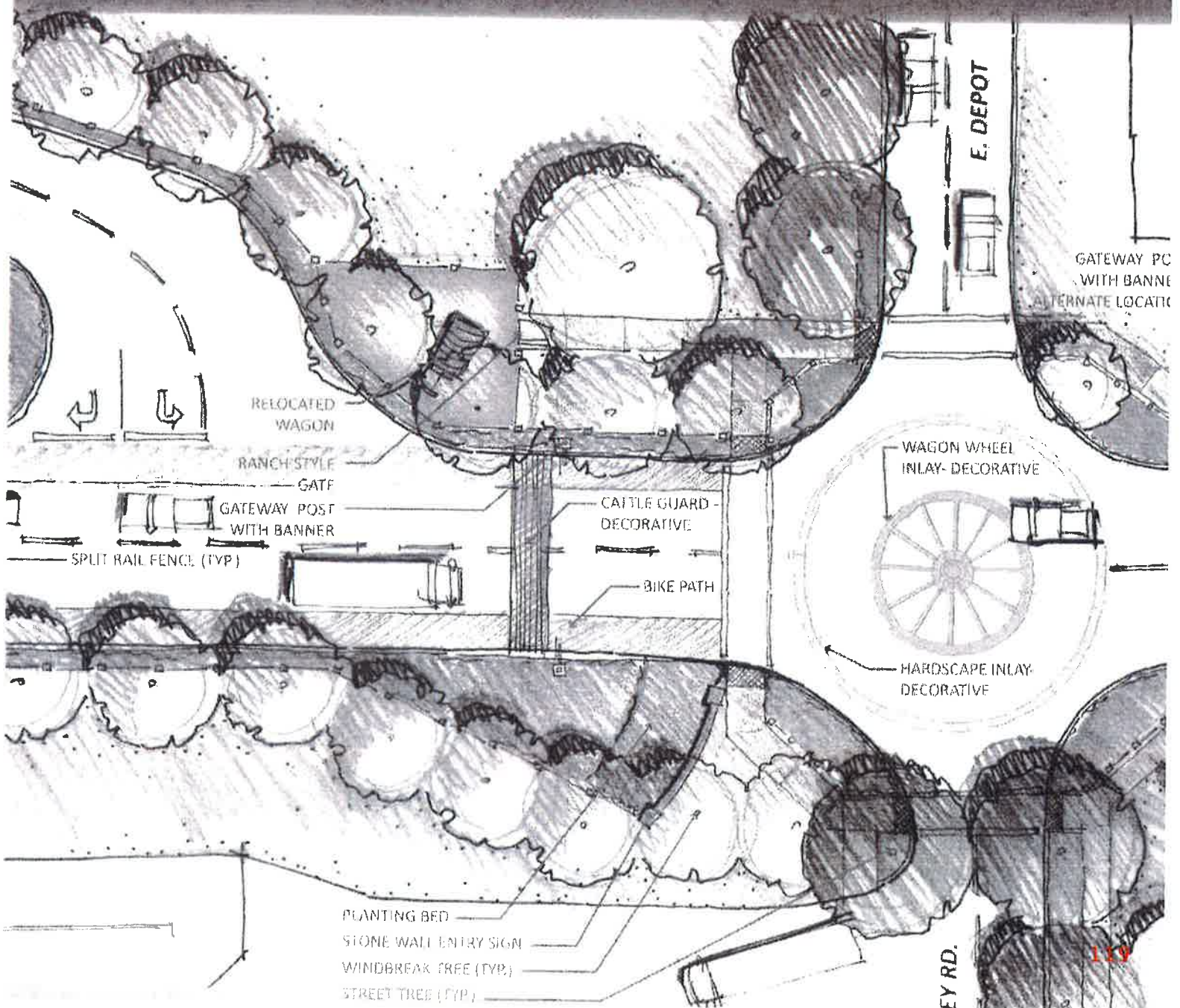
As stated above, Portland State University's Center for Population and Census estimates the Umatilla County's population as 65,500 in 1997. The Center further estimates that 18,623 of these people, or about 28 percent of the population, is under the age of 18 and that 5,505 are under age 5. Because the purpose of this analysis is to determine the number of people with specific transportation needs, DEA used PSU's age disaggregation to estimate that 16,617 people are under 16, the legal driving age in Umatilla County.

Weston



TRANSPORTATION PLAN UPDATE

Weston, Oregon
August 2015



RELOCATED WAGON

RANCH-STYLE GATE

GATEWAY POST WITH BANNER

SPLIT RAIL FENCE (TYP)

CATTLE GUARD-DECORATIVE

BIKE PATH

WAGON WHEEL INLAY-DECORATIVE

HARDSCAPE INLAY-DECORATIVE

E. DEPOT

GATEWAY PC WITH BANNER ALTERNATE LOCATIO

PLANTING BED
STONE WALL ENTRY SIGN
WINDBREAK TREE (TYP)
STREET TREE (TYP)

EY RD.

119

Weston Transportation System Plan

Weston, Oregon

ADOPTION DRAFT

August 2015

Weston Transportation System Plan

Weston, Oregon

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August 2015

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The contents of this document do not necessarily reflect views or policies of the State of Oregon.

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PREFACE

The Weston Transportation System Plan (TSP) was guided by the Project Management Team (PMT) made up of Weston staff and representatives with input from the Oregon Department of Transportation (ODOT). The project was also guided by a Citizen Advisory Committee (CAC). The CAC provided guidance on the direction of the TSP and consisted of staff members from ODOT and Weston citizens. In addition, area stakeholders provided guidance and ensured that the needs of the people of Weston were incorporated into the TSP.

The PMT, CAC, and project stakeholders devoted a substantial amount of time and effort to the development of the Weston Transportation System Plan (TSP) Update, and their participation was instrumental in the development of this document. The consultant team and PMT believe that the city's future transportation system will be better because of their commitment.

Project Management Team (PMT)

Duane Thul
City of Weston Mayor

Debi Russell
City of Weston Recorder

Sheldon Delph
City of Weston Grant Coordinator

Cheryl Jarvis-Smith
TGM Grant Manager

Scott Spendlove
City of Weston Public Works Director

Citizen Advisory Committee (CAC) Meeting Attendees

Jennifer Spurgeon
Weston City Council/Athena-Weston School Board

Bill Boyd
Weston City Council/Citizen

Donald Jackson
East Umatilla County RFPD

Lyn Delph
Weston City Council/Citizen

Sheila Jaspersen
City of Weston Assistant Recorder

Nola Thul
Weston Citizen

Heidi Scott (Delph)
Weston Parks & Recreation Committee

Michael Lambert
CTUIR Fisheries Habitat Program

Jeff Wise
ODOT Region 5 Traffic

Project Stakeholders

Don Fine
ODOT Region 5 Traffic

Prescott Mann
ODOT Rail/Public Transit

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Smith Frozen Foods

Laura Prado
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Ace Clark
ODOT District 12

Chapter 1 Summary

SUMMARY

OVERVIEW

The City of Weston, in conjunction with the Oregon Department of Transportation (ODOT), initiated this update of the City's Transportation System Plan (TSP) in 2014. The TSP update guides the management and implementation of the transportation facilities, policies, and programs within Weston over the next 20 years. This plan is reflective of the community's vision, while remaining consistent with state and other local plans and policies. The plan also provides the necessary elements for adoption as the transportation element of the City's Comprehensive Plan. In addition, the plan provides ODOT and Umatilla County with recommendations that can be considered in their respective planning efforts.

PLAN DEVELOPMENT PROCESS

This plan has been developed through a collaborative process that builds off previously adopted plans. The public's vision and desires make up the foundation of this plan and members of the public were routinely engaged throughout the plan's development through public meetings, a survey, stakeholder meetings, youth workshops involving local school children, and a citizen advisory committee (CAC). Figure 1-1 outlines the planning process.

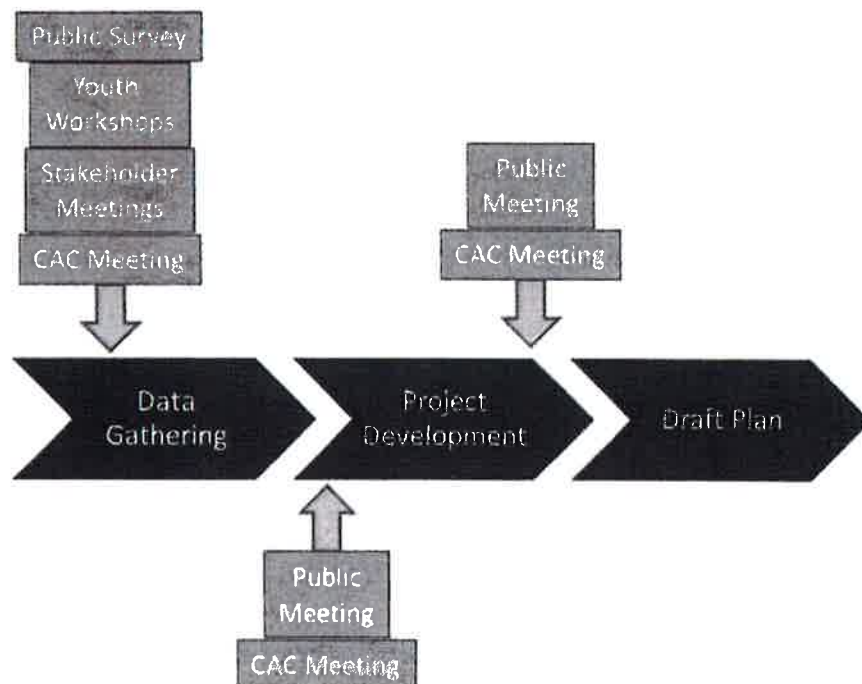


Figure 1-1 Planning Process and Public Involvement

A project management team (PMT) made up of ODOT and City staff and representatives was responsible for decision making and met four times throughout the course of the project.

WESTON'S MULTIMODAL TRANSPORTATION PROJECTS

Projects included in this plan have been determined through the public process shown in Figure 1-1. These projects were either taken from previously adopted plans and then refined through this process or developed through this planning effort. Table 1 - 1 below summarizes the multimodal transportation projects that will help shape Weston's future. *The project numbers are for reference purposes and do not indicate the project's priority level. Prioritization is discussed in Chapter 4.* The locations of the projects are shown in Figure 1-2.

Table 1 - 1 Multimodal Transportation Projects

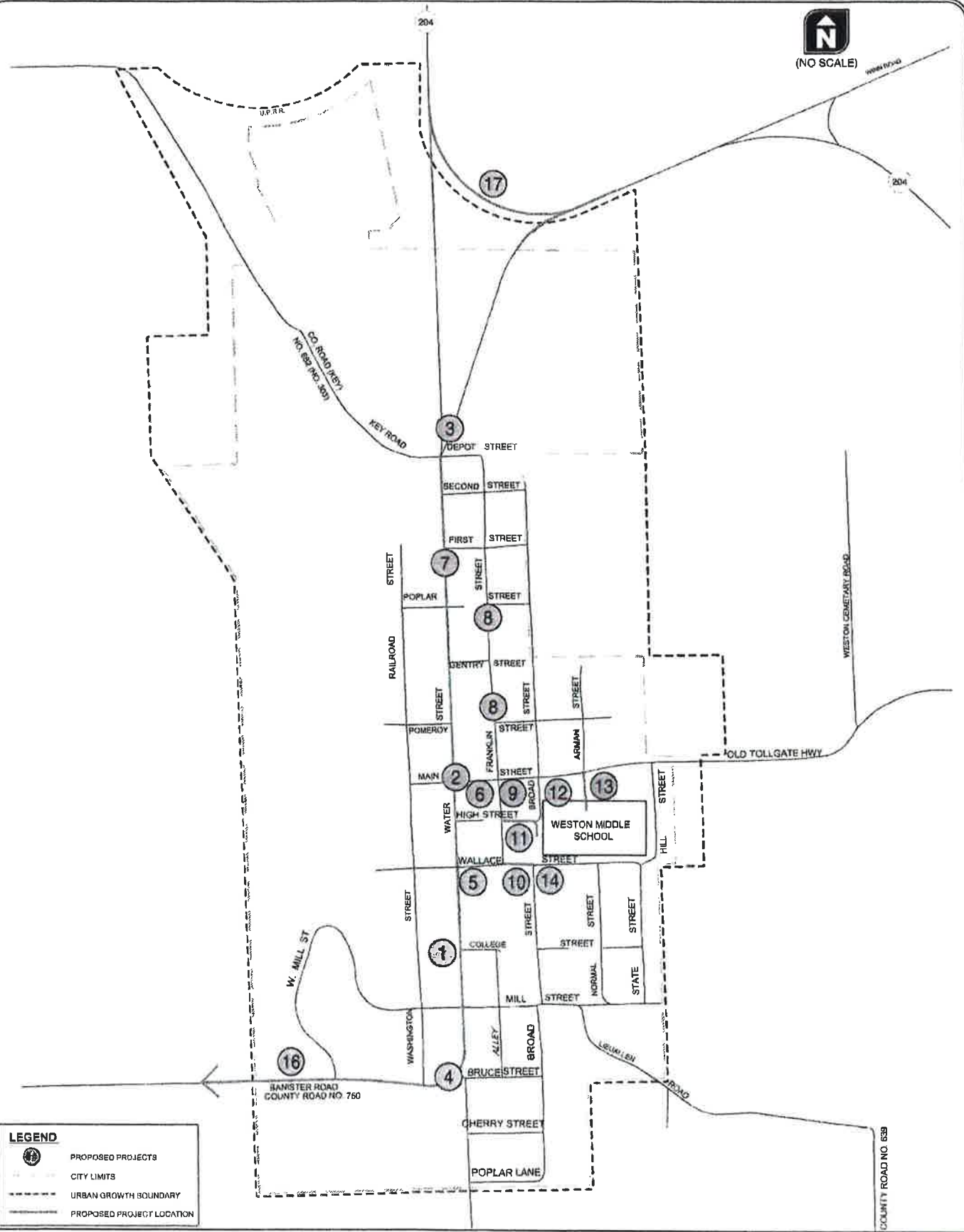
Project # ¹	Project Name
1	Water Street Improvements
2	Water Street/Main Street Intersection Plaza Enhancement
3	Northern Gateway
4	Southern Gateway
5	City Park Pine Creek Interaction Site
6	Downtown Pine Creek Interaction Site
7	Water Street Bridge Replacement
8	Franklin Street Bridge Replacements
9	Main Street Bus Stop Enhancements
10	Wallace Street Sidewalk
11	Weston Middle School Bus Entry Sidewalk
12	Weston Middle School Bus Exit Sidewalk
13	Main Street to Weston Middle School Connector Path
14	Wallace Street/Broad Street Intersection Improvements
Not Shown on Map	
15	LED Lighting Conversion
Projects Outside Weston's UGB	
16	Weston-Athena Multimodal Connection
17	OR 204/Water Street Realignment
18	OR 11 Freight Signing (not shown on map)
19	OR 11 Bicycle/Pedestrian Crossing (not shown on map)

¹Project numbers are for reference only and do not indicate the project's priority level

UPDATED STREET STANDARDS TO INCLUDE STORMWATER TREATMENT

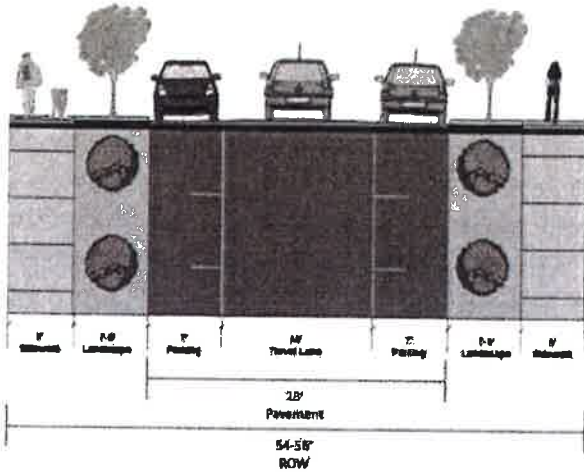
Street standards were reviewed as a part of this plan. Through this process, it was determined that the local street standards should be updated to allow for drainage swales. The updated local street standards are shown in Figure 1-3.

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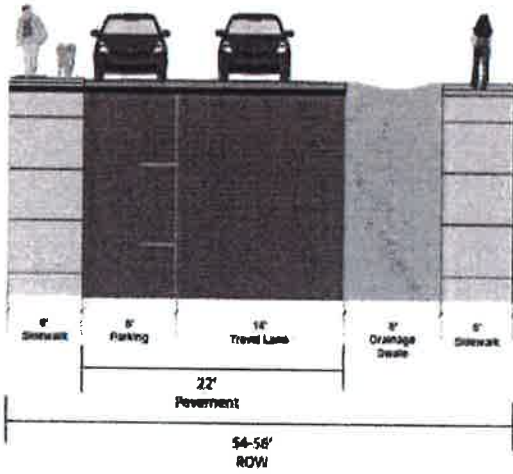


**WESTON'S MULTIMODAL TRANSPORTATION PROJECTS
WESTON, OREGON**

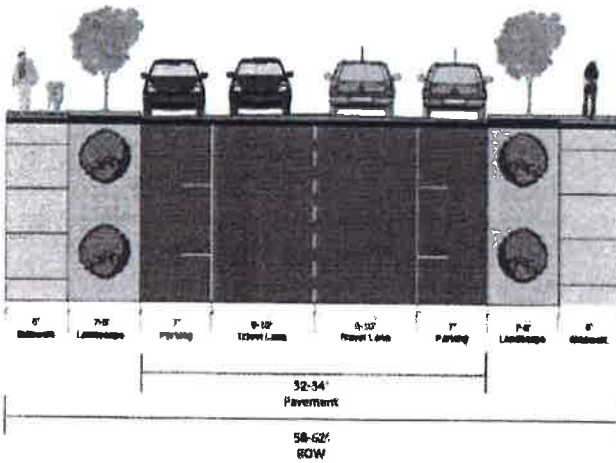
**FIGURE
1-2**



Local Street Option 1



Local Street Option 2



Local Street Option 3

Figure 1-3 Local Street Standards

IMPLEMENTATION

External funding sources (e.g., grants) and partnerships with other agencies will be necessary for the City to implement the projects in this plan. The City's annual transportation budget is dedicated to transportation system operations and maintenance needs (e.g., snowplowing, street sweeping, street repair). Therefore, projects on City-owned streets will require grants or other external funding sources. Certain projects in this plan involve transportation system elements operated by other agencies (e.g., the transit service is operated by the Confederated Tribes of the Umatilla Indian Reservation) and the City will need to partner with these agencies to implement these projects. This plan includes prospectus sheets for each planned project. Once this plan is adopted, City staff and officials can use these sheets as starting points for grant applications and for discussions with partnering agencies.

Chapter 2 Introduction

INTRODUCTION

OVERVIEW

The City of Weston, in conjunction with the Oregon Department of Transportation (ODOT), initiated this update of the City's Transportation System Plan (TSP) in 2014. The TSP update will guide the management and implementation of the transportation facilities, policies, and programs within Weston over the next 20 years. This plan is reflective of the community's vision and is consistent with state and local plans and policies. The plan provides the necessary elements for adoption as the transportation element of the City's Comprehensive Plan. In addition, the plan provides ODOT and Umatilla County with recommendations that can be considered in their respective planning efforts.

PLAN BACKGROUND AND REGULATORY CONTEXT

The Oregon Revised Statutes require that the TSP be based on the current Comprehensive Plan land uses and that it provide for a transportation system that accommodates the expected growth in population and employment that will result from implementation of the land use plan. Development of this TSP was guided by Oregon Revised Statute (ORS) 197.712 and the Department of Land Conservation and Development (DLCD) administrative rule known as the Transportation Planning Rule (TPR, OAR 660-012).

The TPR requires that alternative travel modes be given consideration along with the automobile and that reasonable effort be applied to the development and enhancement of the alternative modes in providing the future transportation system. In addition, the TPR requires that local jurisdictions adopt land use and subdivision ordinance amendments to protect transportation facilities and to provide bicycle and pedestrian facilities between residential, commercial, and employment/institutional areas. It is further required that local communities coordinate their respective plans with the applicable county, regional, and state transportation plans.

PLAN DEVELOPMENT

This plan is a reflection of the community's vision for how its City should function and look. This vision has been established through previous planning efforts and the public involvement process completed for this plan.

Previous Planning Efforts

The TSP update began with a review of relevant local and statewide plans and policies that guide land use and transportation planning in the City. In addition to the previously adopted transportation plan (2001), the update incorporates the following planning efforts that have been completed since the previous TSP was adopted:

- *City of Weston Development Code (2001)*
- *City of Weston Comprehensive Plan (2005)*
- *City of Weston Infill Plan (2007)*
- *Reimagining Weston (2011)*
- *Athena-Weston Safe Routes to School and Weston Downtown Revitalization + Citywide Connections (2011)*

Public Involvement

The TSP planning process provided the citizens of Weston and local businesses with the opportunity to identify their vision and priorities for the future transportation system within the city. The planning process was guided by a project management team (PMT) and citizen advisory committee (CAC). The PMT was responsible for decision making and the regular management of the project and included representatives from the City and ODOT. The CAC offered their recommendations for the plan's direction and was comprised of key stakeholder agencies, including the City and ODOT, and Weston citizens, staff, and elected officials.

Members of the PMT and CAC reviewed the technical aspects of the TSP. They held four PMT meetings and three CAC meetings (including a walking tour of Weston) throughout the course of the project, including identifying and evaluating existing deficiencies and opportunities for improvement; reviewing and selecting project concepts; reviewing partnership and funding opportunities; and the presentation of recommended ordinance amendments.

In addition to the established advisory committees, public involvement for developing and reviewing the Weston TSP was achieved through:

- Two public open houses held at key junctures throughout the project (identifying and evaluating existing deficiencies and opportunities for improvement; and reviewing and selecting project concepts)
- Two workshops with local school age youth (one with the senior class of Weston-McEwen High School and the other with the 5th-grade class at Weston Middle School)



Attendees Review Project Concepts at the 1st Public Open House

- Two stakeholder meetings with agency and business representatives, elected officials, and Weston residents
- A joint Planning Commission (PC)/City Council (CC) work session, advertised open to the public
- Public hearings (PC) and (CC) as part of the adoption process.

OBJECTIVES

The objectives of the updated Weston TSP, as defined and validated by the PMT, CAC, Project Stakeholders, and public involvement process are:

- Design and manage Water Street to increase mobility choices.
- Provide healthful, safe and pleasing walking, biking and transit opportunities to support an active lifestyle.
- Explore regional bicycle and pedestrian circulation, including Weston – Athena multi-modal connectivity.
- Create lively center with linked neighborhoods, schools, work places and parks.
- Support community economic vitality through compact land use patterns and efficient transportation network.
- Identify opportunities for infill development to support senior housing and multi-unit development.
- Promote valuable natural and cultural resources through land use and transportation infrastructure development.
- Explore Oregon Trail Interpretive Site and Parks and Recreation Master Plan opportunities to link important destinations.
- Engage stakeholders, expand partnerships and funding coordination.
- Adopt Updated TSP and supportive implementing codes.
- Coordinate transportation projects with other infrastructure projects.

TRANSPORTATION, LAND USE, AND HEALTH

The impacts of transportation infrastructure, programs, and policies go beyond just how people move themselves and goods from one point to another. Weston’s economy and the health of its residents are inextricably linked to the quality and robustness of the transportation infrastructure. This plan recognizes this link and includes infrastructure projects and mobility policies meant to improve the quality of life in Weston. Implementation of this plan will support a healthier and more economically vibrant city.

Land Use/Economic Development

Transportation improvements can benefit existing local employers, as well as attract new business to the city. The largest employers in the city are Smith Frozen Foods and J&J Snack Foods, both of which are located off Key Road on the north end of town. These businesses rely on the regional transportation system for shipping goods to and from their processing facilities in Weston. Projects to improve traffic circulation and safety in the vicinity of these employers, including the roads they use to access OR 11 and OR 204, will benefit them.

Weston Middle School and local businesses in the central city can all benefit from multi-modal connectivity improvements and streetscape/beautification projects. One great advantage of a city the size of Weston is that the entire community can be walkable and/or bikeable. Building a strategic network for these modes will benefit all local employers. Providing an appropriate amount of on-street parking in commercial areas is also important to the local businesses.

The entire community can benefit from increasing visitor traffic through the city. An estimated 17% of employment in Umatilla County is in categories which can benefit from tourism directly or indirectly. This includes auto traffic from the highways, as well as cycling tourism. Cycling tourism accounted for approximately \$15.3 million in spending in eastern Oregon in 2012 (Reference 1) and has potential for further growth. OR 11 and OR 204 are both known cycling routes and provide opportunities to capture tourists that would otherwise travel by Weston. Projects that promote bicycling locally and create a more bicycle friendly environment will make Weston a more attractive destination for bicycle tourists.

Health

According to County Health Rankings, a program of the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute, Umatilla County is in the bottom third of Oregon counties for health outcomes and factors (Reference 2)¹. Table 2 - 1 provides a summary of how Umatilla County compares to the rest of the state with respect to specific factors that are most likely to be directly impacted by transportation choices.

Table 2 - 1 Health Factors Impacted by Transportation - Umatilla County Compared to Oregon

Factor	Umatilla County Measure	Oregon Average
% of Adults Considered Obese	33%	27%
% of Adults Reporting No Physical Activity	24%	16%
% of Adults Living Near a Park or Recreational Facility	65%	89%
% of Motor Vehicle Fatalities Involving Alcohol	27%	31%
Driving Alone to Work	80%	72%
Driving Alone to Work (>30 Minute Commute)	16%	26%

¹ Health data is not available for the City of Weston, so Umatilla County data is used.

Umatilla County is generally below the Oregon state average with respect to physical activity measures. County residents are also more likely to drive alone to work, but they are less likely to drive alone for a longer commute. Physical activity measures are important to consider because inactivity is associated with a higher risk for poor health outcomes, such as heart disease, diabetes, early deaths, and depression (Reference 3).

Based on the Umatilla County data, it is reasonable to conclude that the City of Weston should place new emphasis on providing opportunities for additional physical activity within the City. Parks and designated recreational facilities are not the only means to provide these opportunities. Constructing transportation infrastructure that provides for active transportation modes (i.e., walking and biking) and implementing policies and programs that promote these modes are other means. Urban design infrastructure and policies have been proven to have an impact on physical activity levels (Reference 4). Many of the projects in this plan have an active transportation and/or urban design component. For instance, Water Street is the primary street through town, connecting community members to each other and local businesses. Providing a complete sidewalk network and creating an inviting environment for walking and bicycling on Water Street is a primary opportunity to encourage more physical activity. Similarly, completing sidewalk and traffic calming projects around the middle school could also promote more physical activity among middle school students, who are currently not allowed to walk in certain areas that do not have sidewalks.

ORGANIZATION OF THE TSP

The Weston TSP is comprised of a main document (Volume 1) and one volume of technical appendices (Volume 2).

Volume 1 is the Weston TSP. It is organized into the following Chapters.

- Chapter 1 - Summary
- Chapter 2 – Introduction (current section)
- Chapter 3 – Transportation System Plan
- Chapter 4 – Implementation Plan

Volume 2 (under separate cover) contains the technical memorandums prepared during the development of the Weston TSP including the detailed data and analysis that informed the final plan.

Chapter 3 Transportation System Plan

TRANSPORTATION SYSTEM PLAN

Weston's transportation system plan includes a suite of projects focused on improving the multimodal movement of people and goods throughout Weston and the surrounding area. Projects included in this plan are the direct result of input from the CAC, PMT, and general public. They incorporate Weston's small-town character and are right-sized for the City's needs. Table 3- 1 lists the planned projects and Figure 3-1 illustrates their location. *The project numbers in Table 3-1 are for reference purposes only and do not indicate the project's priority level. Prioritization is discussed in Chapter 4.*

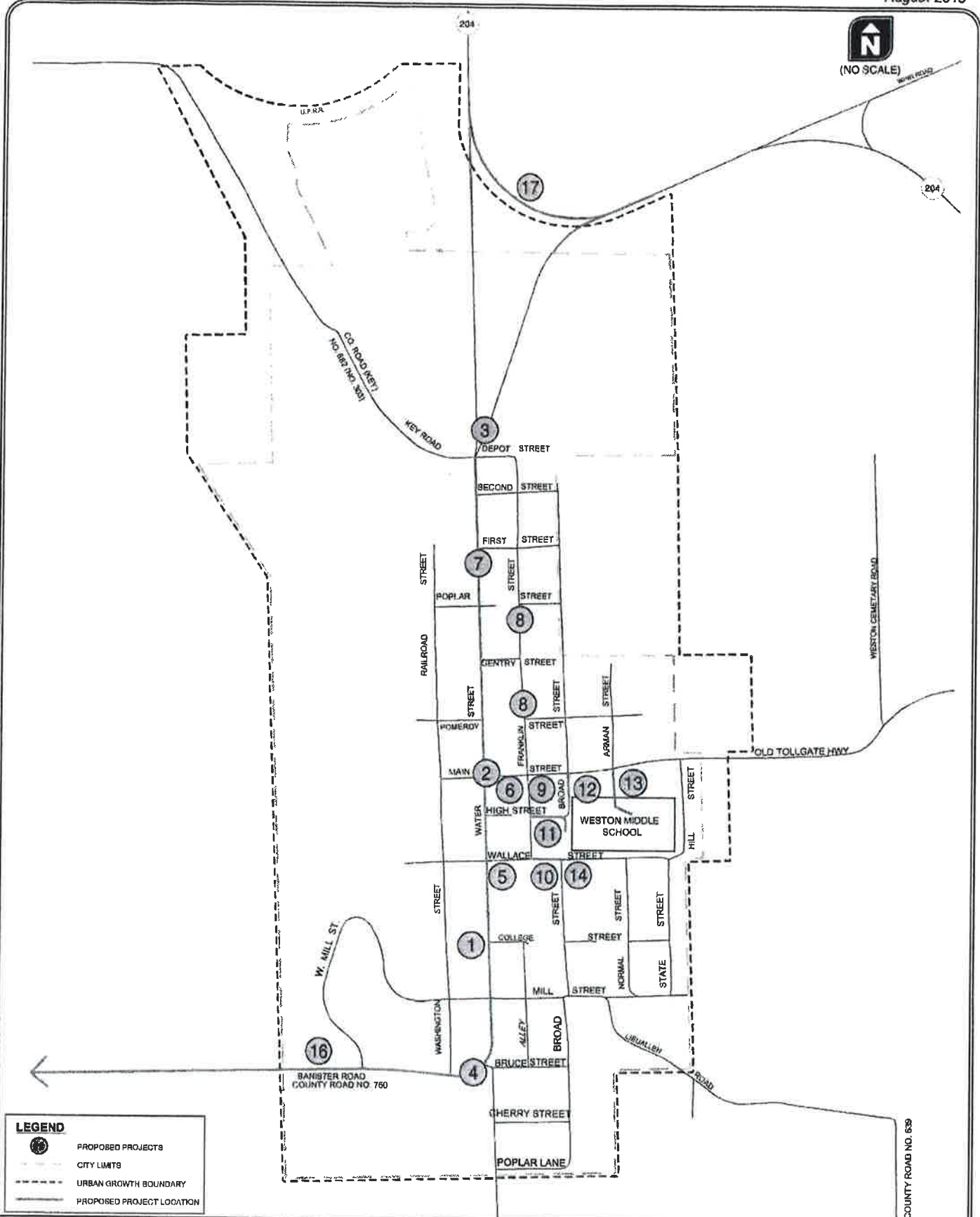
Table 3- 1 Weston's Multimodal Transportation Projects

Project # ¹	Project Name
1	Water Street Improvements
2	Water Street/Main Street Intersection Plaza Enhancement
3	Northern Gateway
4	Southern Gateway
5	City Park Pine Creek Interaction Site
6	Downtown Pine Creek Interaction Site
7	Water Street Bridge Replacement
8	Franklin Street Bridge Replacements
9	Main Street Bus Stop Enhancements
10	Wallace Street Sidewalk
11	Weston Middle School Bus Entry Sidewalk
12	Weston Middle School Bus Exit Sidewalk
13	Main Street to Weston Middle School Connector Path
14	Wallace Street/Broad Street Intersection Improvements
Not Shown on Map	
15	LED Lighting Conversion
Projects Outside Weston's UGB	
16	Weston-Athena Multimodal Connection
17	OR 204/Water Street Realignment
18	OR 11 Freight Signing (not shown on map)
19	OR 11 Bicycle/Pedestrian Crossing (not shown on map)

¹Project numbers are for reference only and do not indicate the project's priority level

The remainder of this chapter describes these projects in greater detail and discusses Weston's standards and classification system. It is organized by modal system. The final section of this chapter describes projects outside Weston's urban growth boundary (UGB) that were discussed during this plan's development and are recommended for consideration by the implementing agency (i.e. Umatilla County or ODOT) as they update their own plans.

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**WESTON'S MULTIMODAL TRANSPORTATION PROJECTS
WESTON, OREGON**

**FIGURE
3-1**



ROADWAY SYSTEM

Weston's transportation plan guides how the roadway system should evolve over the next 20 years. This roadway plan includes projects to enhance the Water Street corridor for all modes of travel, to replace aging bridges, and to upgrade the City's street lighting system. It also describes the functional classification of the roads through Weston and the City's street standards.

Planned Roadway Projects

Table 3- 2 lists the planned roadway projects, which were previously shown in Figure 3-1.

Table 3- 2 Multimodal Roadway Projects

Project # ¹	Project Name
1	Water Street Improvements
2	Water Street/Main Street Intersection Plaza Enhancement
3	Northern Gateway
4	Southern Gateway
7	Water Street Bridge Replacement
8	Franklin Street Bridges Replacement
Not Shown on Map	
15	LED Lighting Conversion

¹Project numbers are for reference only and do not indicate the project's priority level

Most of the roadway projects are focused on improving mobility options on and the look of Water Street. This is a reflection of Water Street's importance to Weston's transportation system, economic vitality, and community vibrancy. More information on the projects can be found in the project prospectus sheets contained in the appendix. A conceptual layout for the Water Street Improvements (Project #1) is shown in Figures 3-2 through 3-4.

Streetscape/Urban Design Improvements

Streetscape and urban design improvements are major components of three of the roadway projects (#'s 2, 3, and 4). The two ends of Water Street were chosen since they are the gateways to the city. Urban design and streetscape improvements have the potential to enhance visitors' first impressions of the town and calm traffic entering from the higher speed highways and Banister Road. The Main Street/Water Street intersection is the gateway to Weston's primary commercial district on Main Street south of Water Street. Additionally, a small city park and Memorial Wall are located on Main Street north of Water Street. Streetscape and urban design improvements at this location could help better link these two sides of Main Street and calm traffic through the intersection. Concept drawings for projects #2 – 4 are shown in Figures 3-5 through 3-7.



Figure 3-2 Project #1 - Water Street Improvements – North Section

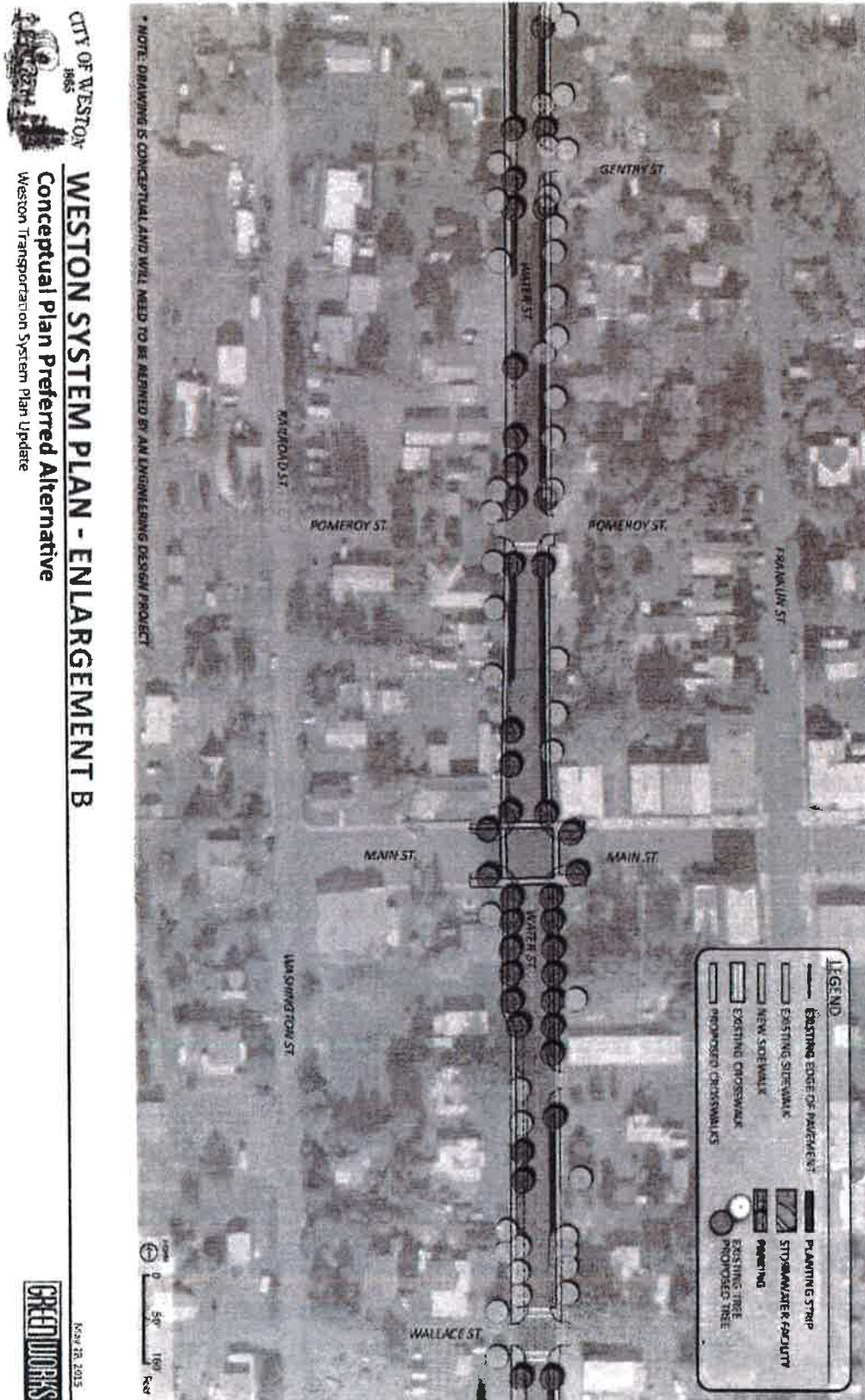


Figure 3-3 Project #1 - Water Street Improvements – Central Section

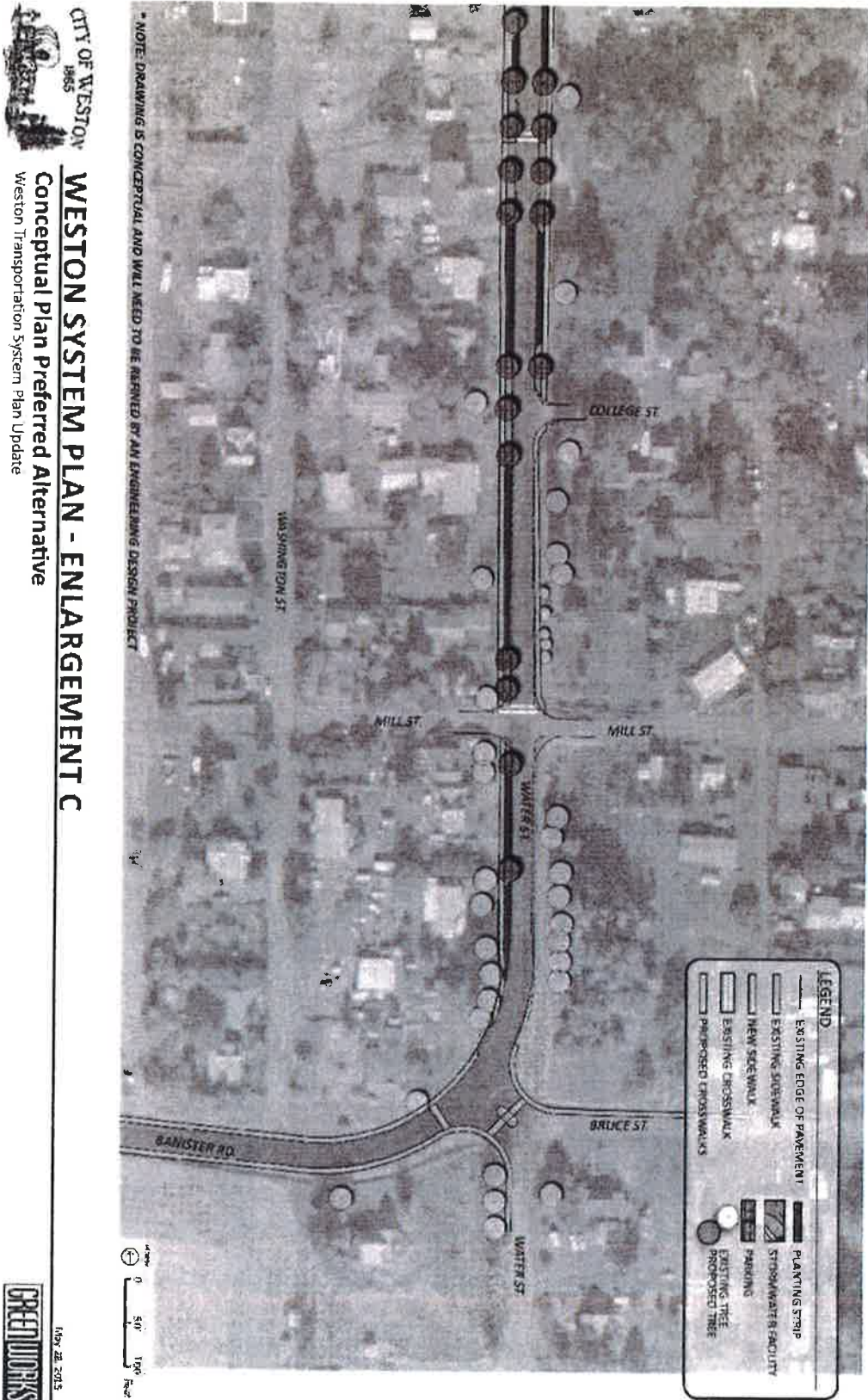


Figure 3-4 Project #1 - Water Street Improvements – Southern Section

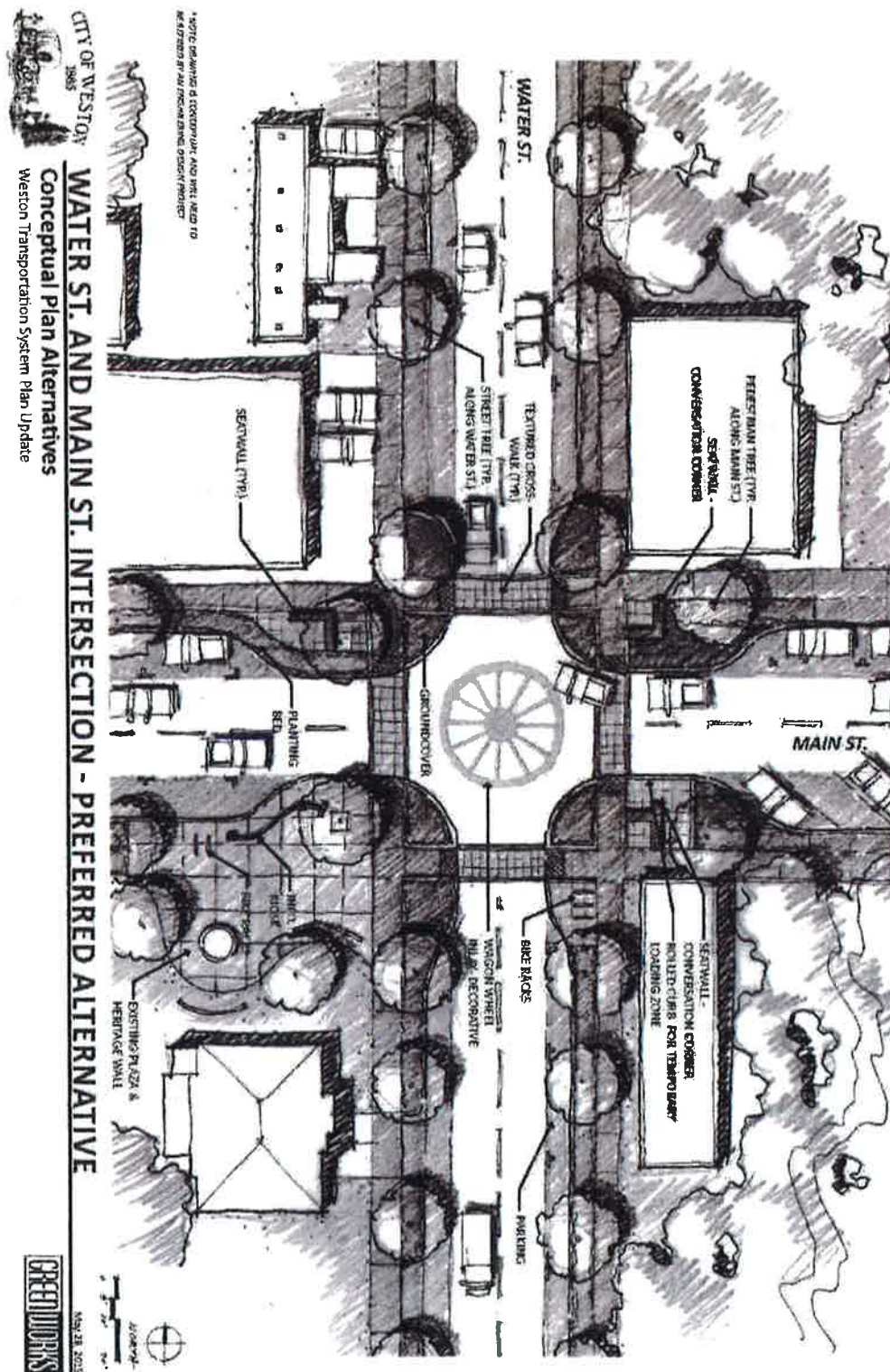


Figure 3-5 Project #2 - Water Street/Main Street Intersection Plaza Enhancement

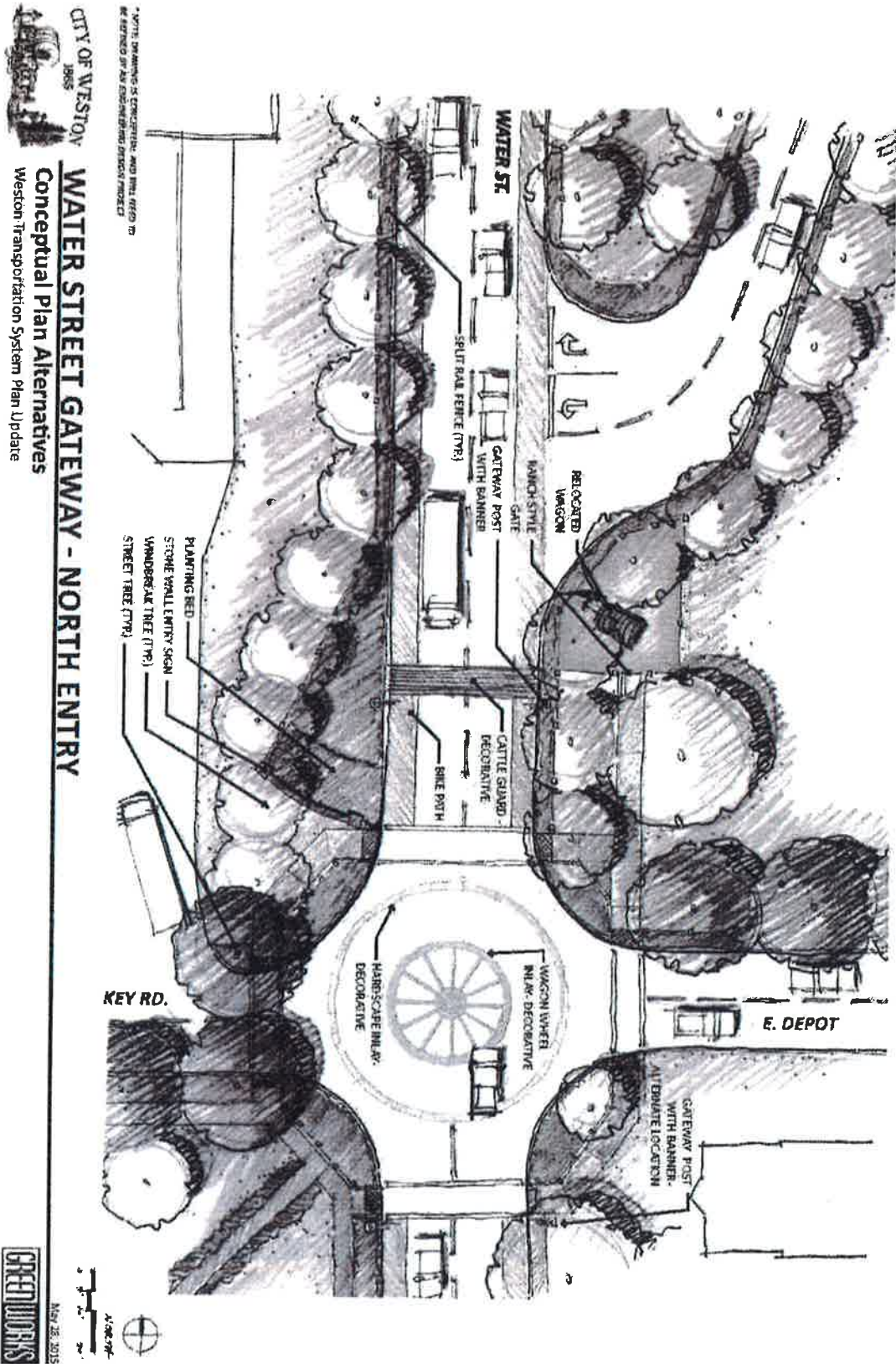


Figure 3-6 Project #3 - Northern Gateway Concept

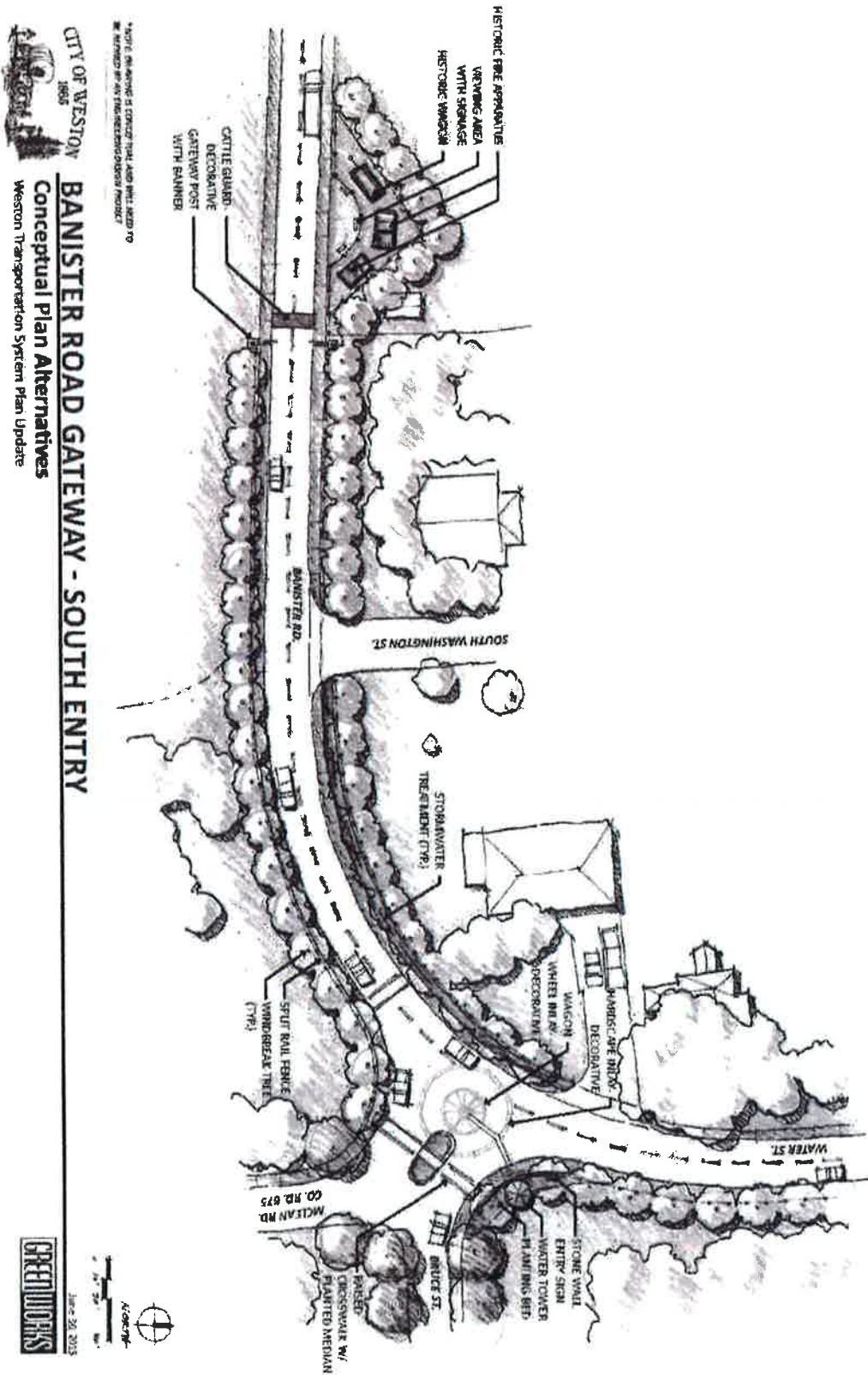


Figure 3-7 Project #4 - Southern Gateway Concept

Functional Classification

The purpose of classifying roadways is to create a plan for a balanced transportation system that provides mobility for all modes of transportation, as well as access to adjacent land uses in an orderly manner. A roadway's functional classification determines its intended purpose, the amount and character of traffic it is expected to carry, and the roadway's design standards and overall management approach. Weston's streets are classified as either collectors or local streets, as shown in Figure 3-8. No changes to the functional classification system have been made from the previous plan.

Collectors

Collector is the highest order of street in Weston's network and is intended to provide for circulation and mobility for all users of the system.

- Collectors carry moderate traffic volumes at moderate or low speeds.
- They typically have two-lane cross-sections with on-street parking.
- Although they carry higher volumes than local streets, they are intended to provide direct access to adjacent land rather than serving through traffic.
- Within Weston, collector streets connect the local streets to the surrounding transportation system of Umatilla County roads and State highways.

Local Streets

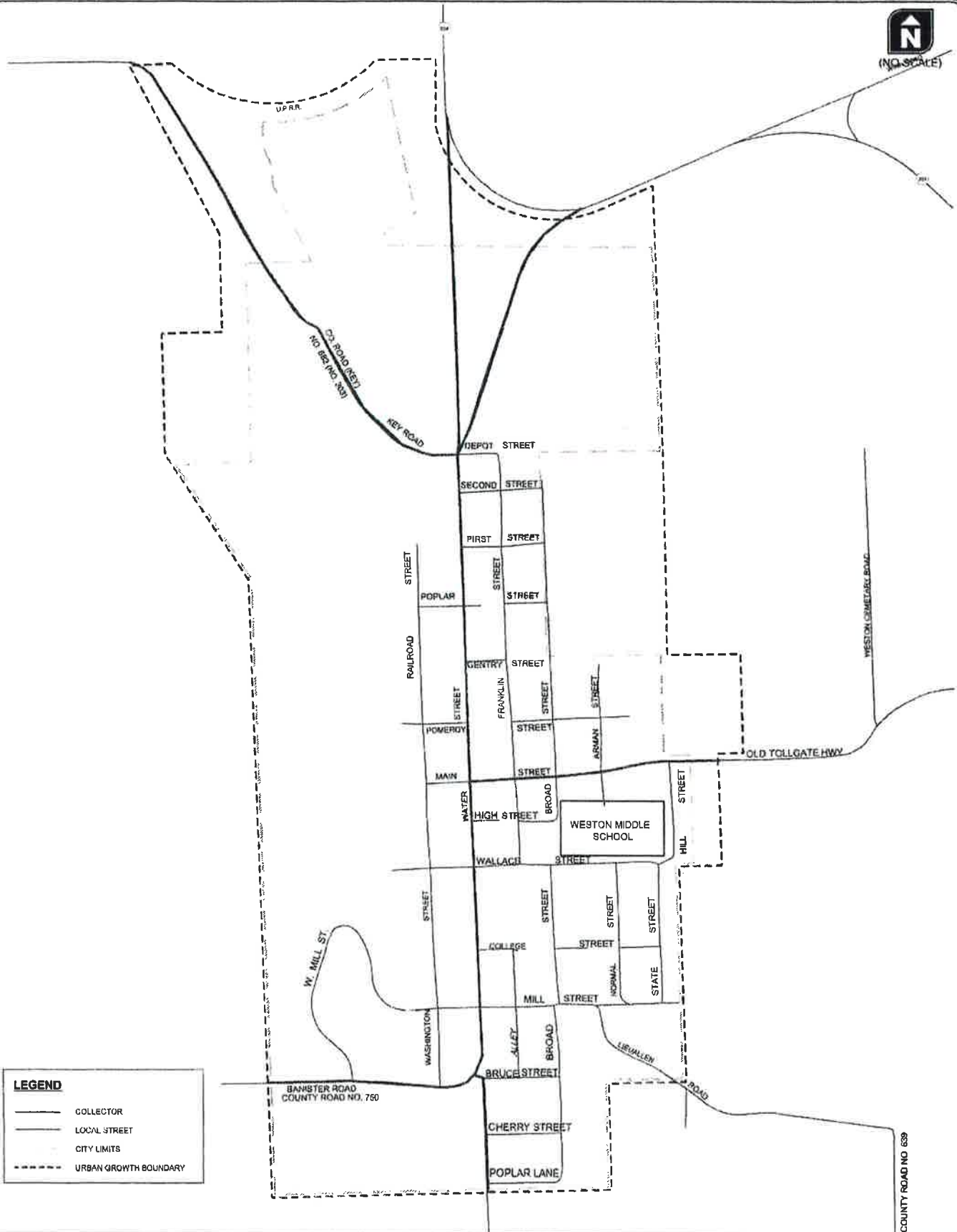
Weston's Local streets are primarily intended to provide access to abutting land uses.

- Local street facilities offer the lowest level of mobility and consequently tend to be low-speed facilities. As such, local streets should primarily serve passenger cars, pedestrians, and bicyclists.
- Heavy truck traffic is discouraged.
- On street parking is common.

Street Design Standards

Street design standards support the functional and operational needs of streets, including safety, multimodal accessibility, and capacity. They ensure that the system of streets, as it develops, will be capable of safely and efficiently serving the traveling public while also accommodating the orderly development of adjacent property.

The street design standards are shown as a series of cross sections in Figures 3-9 through 3-11 for collector and local streets and alleys. Through this process, the local street standards have been updated to allow for drainage swales. Water Street has also been given



LEGEND

- COLLECTOR
- LOCAL STREET
- CITY LIMITS
- URBAN GROWTH BOUNDARY

**ROADWAY FUNCTIONAL CLASSIFICATION PLAN
WESTON, OREGON**

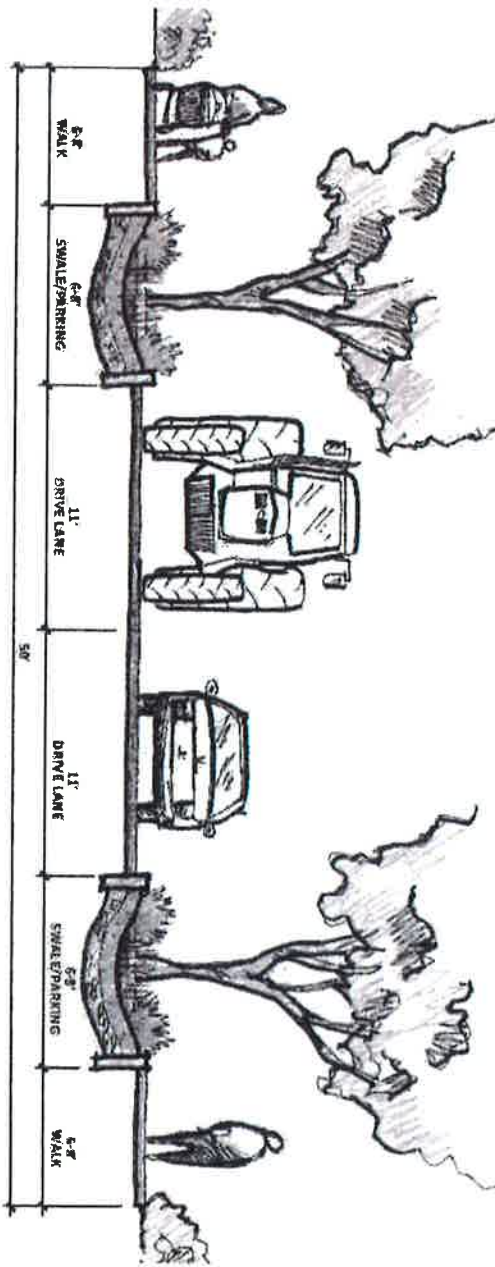
FIGURE
3-8

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Preferred Alternative

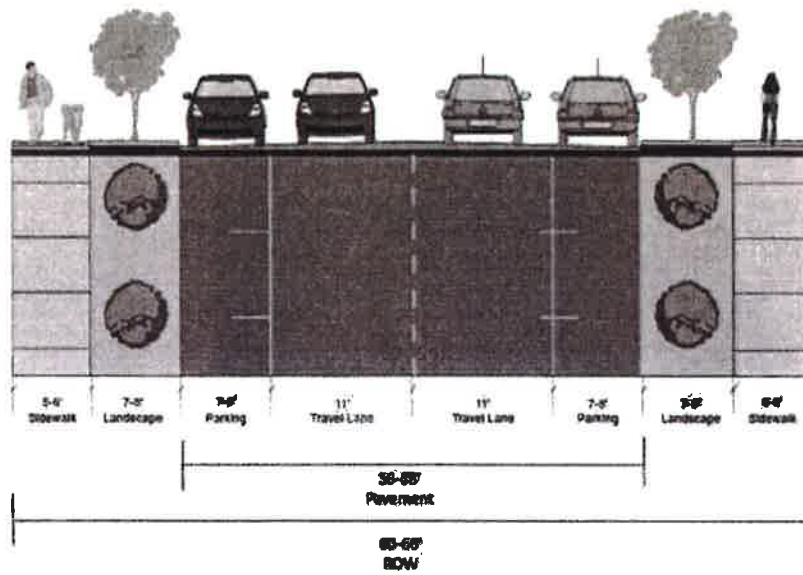
- POSITIVES:**
- Wider swales on both sides of street
 - Street trees on both sides of street
 - Fast walkway wider
 - Vegetated buffer from vehicle traffic on both sides of street
 - Intermittent parking on both sides of street
 - Wider planters provide larger trees
- NEGATIVE:**
- Narrower paved section limits size of equipment with on-coming traffic
 - No bike lane or shoulder



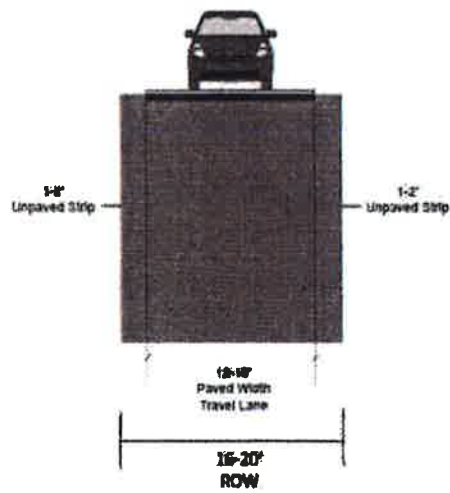
WATER STREET - TYPICAL SECTION ALTERNATIVES
 Conceptual Plan Preferred Alternative
 Weston Transportation System Plan Update



Figure 3-9 Water Street Cross-Section Standard

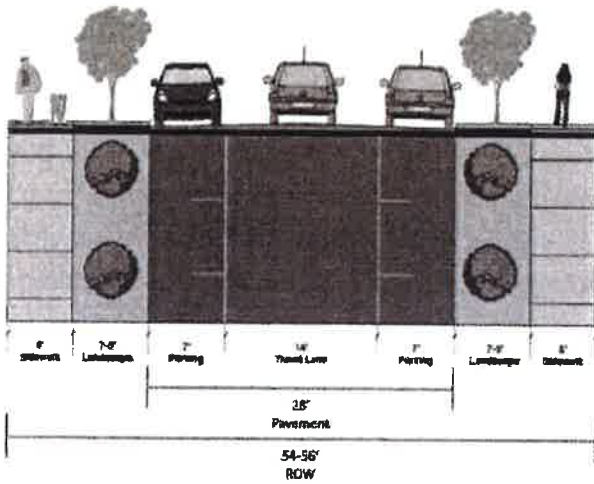


Collectors

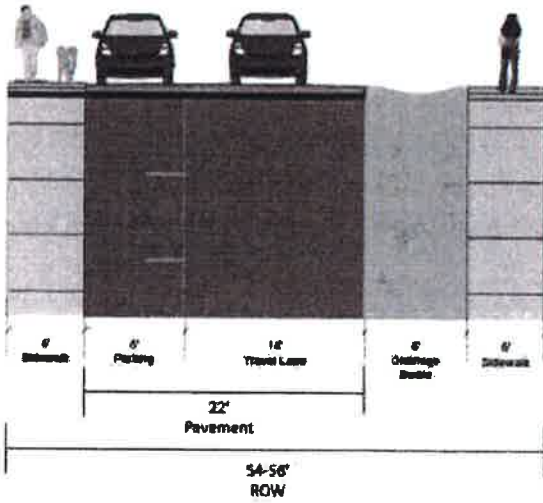


Alleys

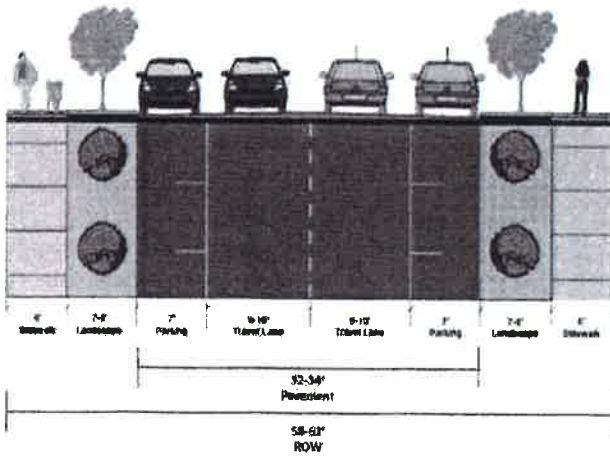
Figure 3-10 Collector and Alley Street Standards



Local Street Option 1



Local Street Option 2



Local Street Option 3

Figure 3-11 Local Street Standards

its own standard in conjunction with the Water Street Improvements project. Other standards remain the same as they were in the previous plan.

The cross sections are intended to be used for planning purposes for new road construction, as well as for those locations where it is physically and economically feasible to improve existing streets. Detailed design elements, such as cross-slopes, are not shown in the figures. Also, additional width for turn lanes may be needed at specific intersections based on an engineering investigation; these are not shown in the street design standards. The standards shown are intended to define typical cross-sections of streets between intersections.

Three options for local street standards are included in order to provide flexibility in the design of future subdivision streets. Options 1 and 2 would likely be less costly to build and maintain. The more narrow streets in these two options may also reduce stormwater runoff.

PEDESTRIAN SYSTEM

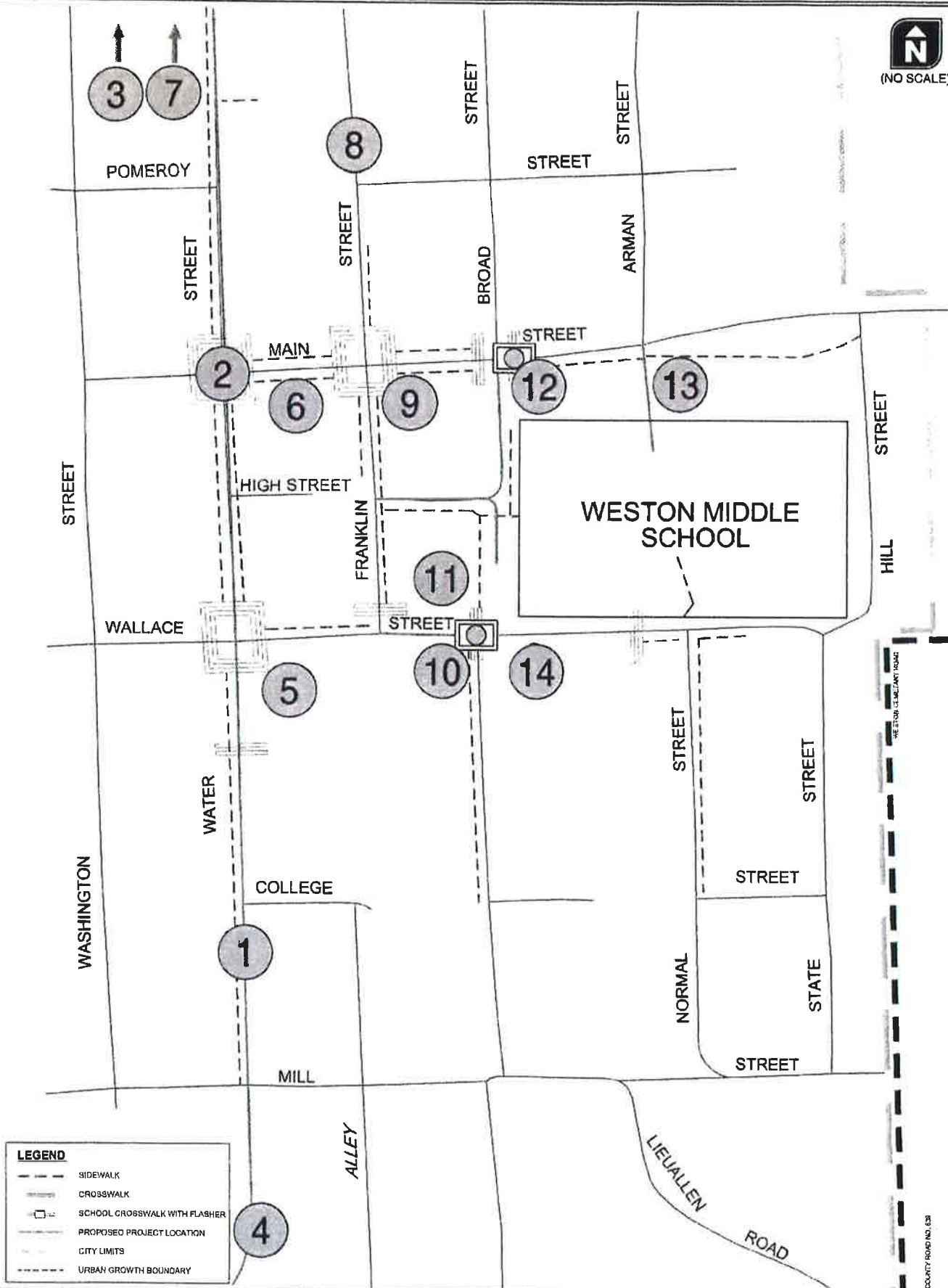
Pedestrian infrastructure in Weston consists of sidewalks and crossing treatments. Currently, most of the sidewalks are concentrated on Main Street, around Weston Middle School, and along the west side of Water Street. Similarly, most marked crossings are found on Water Street or near Weston Middle School. Flashing beacons or lighted crosswalk signs are also present at two crosswalks near the middle school.

A major emphasis of this plan is improving walking conditions around Weston, including access to businesses and Weston Middle School. Figure 3-12 illustrates the existing pedestrian system, plus the planned projects listed in Table 3- 3, including roadway projects with a pedestrian component.

Table 3- 3 Projects with a Significant Pedestrian Component

Project # ¹	Project Name
1	Water Street Improvements
2	Water Street/Main Street Intersection Plaza Enhancement
3	Northern Gateway
4	Southern Gateway
5	City Park Pine Creek Interaction Site
6	Downtown Pine Creek Interaction Site
7	Water Street Bridge Replacement
10	Wallace Street Sidewalk
11	Weston Middle School Bus Entry Sidewalk
12	Weston Middle School Bus Exit Sidewalk
13	Main Street to Weston Middle School Connector Path
14	Wallace Street/Broad Street Intersection Improvements

¹Project numbers are for reference only and do not indicate the project's priority level



LEGEND

- SIDEWALK
- CROSSWALK
- SCHOOL CROSSWALK WITH FLASHER
- PROPOSED PROJECT LOCATION
- CITY LIMITS
- URBAN GROWTH BOUNDARY

**PEDESTRIAN SYSTEM AND PLANNED PROJECTS
WESTON, OREGON**

FIGURE
3-12

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Most of the projects included in this plan will further complete the pedestrian system in Weston. This reflects that many of the plan's objectives are focused on providing mobility options for Weston's residents and visitors. More details on the planned projects can be found in the prospectus sheets contained in the appendix.

Pine Creek Access

The *Weston Infill Plan* identified a number of proposed "Creek Interaction Site" projects. These improvements are intended to improve visual and physical access to the creek at key locations; construct pathway segments along the creek; and provide spaces and amenities for people to gather and rest. As part of this plan, those recommendations were revisited and determined it was best to focus interaction sites at locations where the creek passes under a public right-of-way (e.g. the park) and the Saling House. Locations where the creek is adjacent to private land, other than the Saling House, likely are not realistic or feasible as interaction sites, given the fact that several of these previously identified locations are essentially in an individual's backyard and there is little available room to create a viable interaction site. Given this, two sites are included in this plan in downtown Weston and at the City Park. Concept drawings for these two sites can be found in Figure 3-13 and Figure 3-14. An alternative, or additional, site for the downtown area would be behind City Hall, potentially constructing the site as a mini-park. This site is discussed further in the 2007 *City of Weston Infill Plan*.

A site at the Saling House is also a priority and is being considered by the group working on restoring the historic building. More information on other potential long-term creek interaction sites can be found in the Volume 2 Technical Appendix.

FREIGHT SYSTEM

Freight movement is an important component of Weston's economy. As previously noted, the two largest employers are food-processing companies. These companies rely on the area's transportation system for shipping in the agricultural products they process and shipping out the goods they produce. Local businesses rely on trucks for delivering goods for resale, supplies, and other items they need to conduct their operations. Residents receive deliveries and send packages and other mail through the freight system. Figure 3-15 illustrates the existing freight routes in the area, including key destinations. In addition to the routes shown on the figure, OR 11 is designated by ODOT as a Freight Route.

Projects that will improve freight movement are listed in Table 3-4.

Table 3-4 Projects That Will Improve Freight Movement in Weston

Project # ¹	Project Name
7	Water Street Bridge Replacement
8	Franklin Street Bridges Replacement

¹Project numbers are for reference only and do not indicate the project's priority level

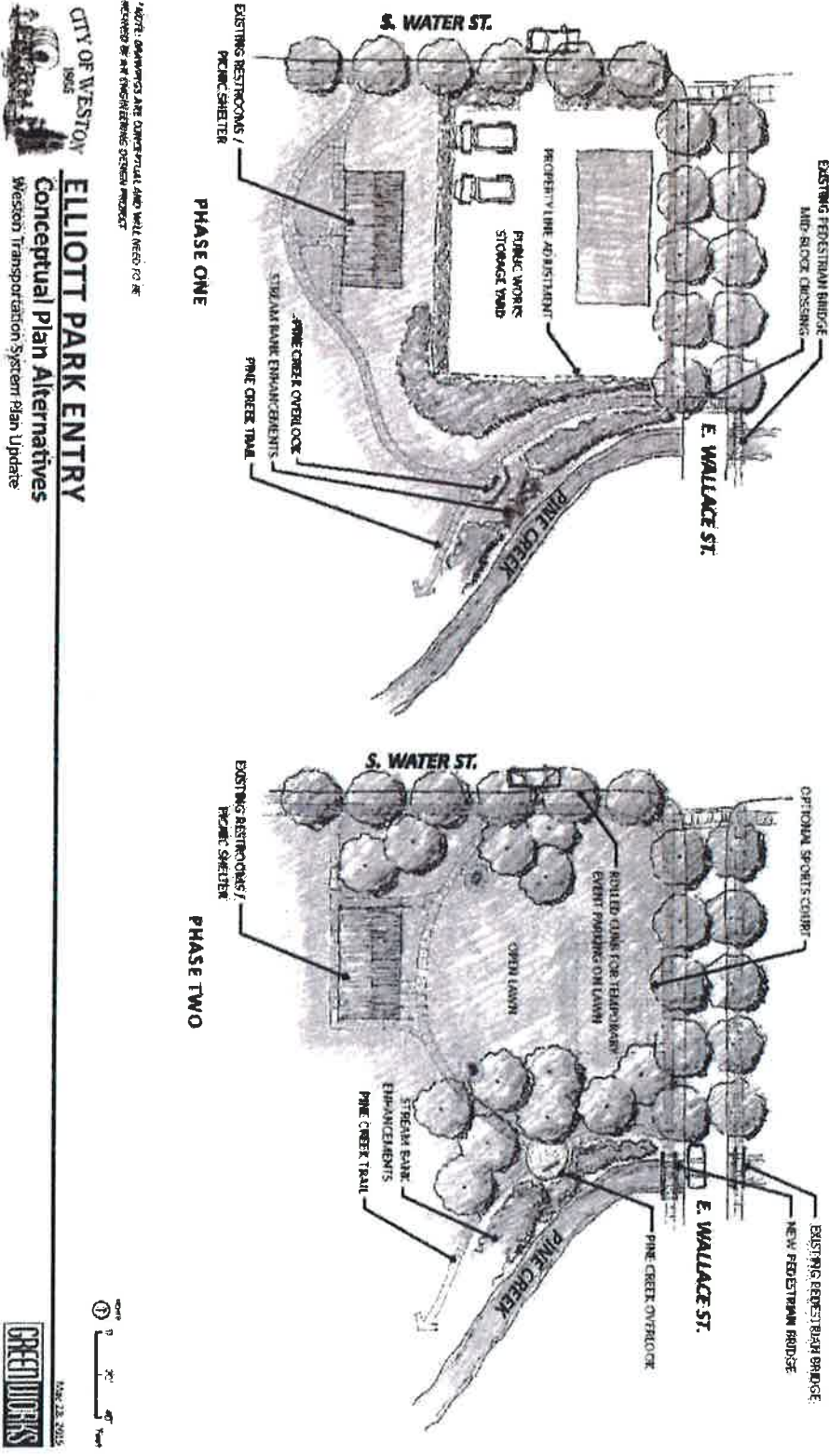
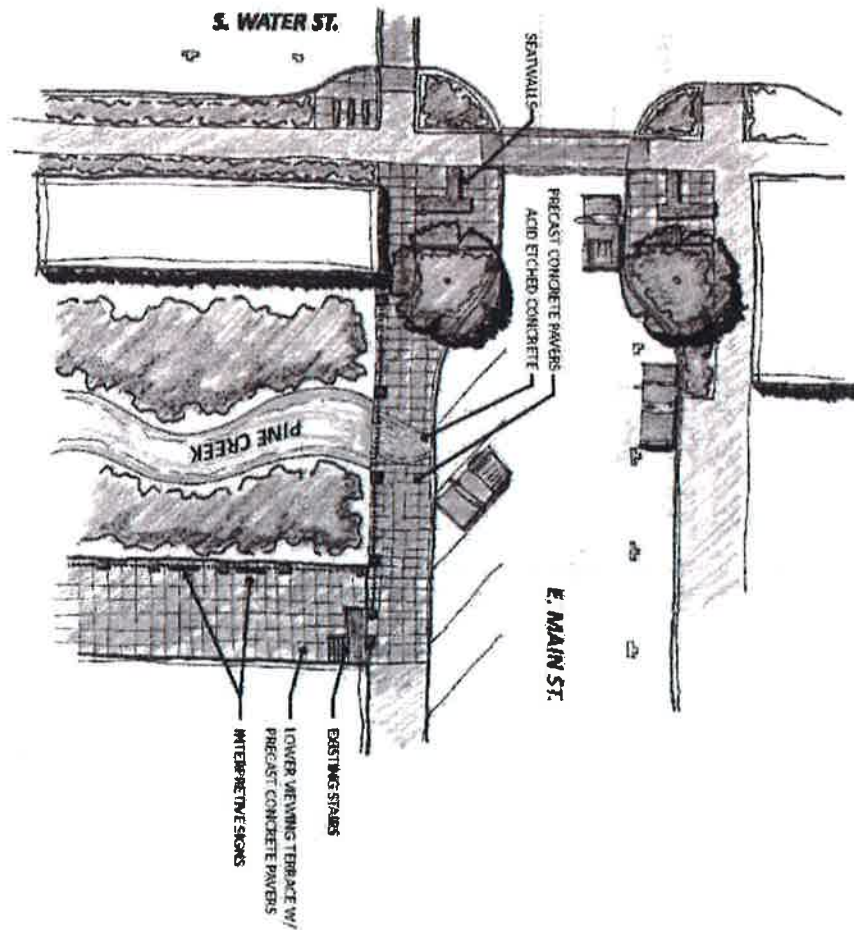


Figure 3-13 Project #5 - City Park Pine Creek Interaction Site Concept



DOWNTOWN CREEK OVERLOOK
Conceptual Plan Alternatives
Weston Transportation System Plan Update



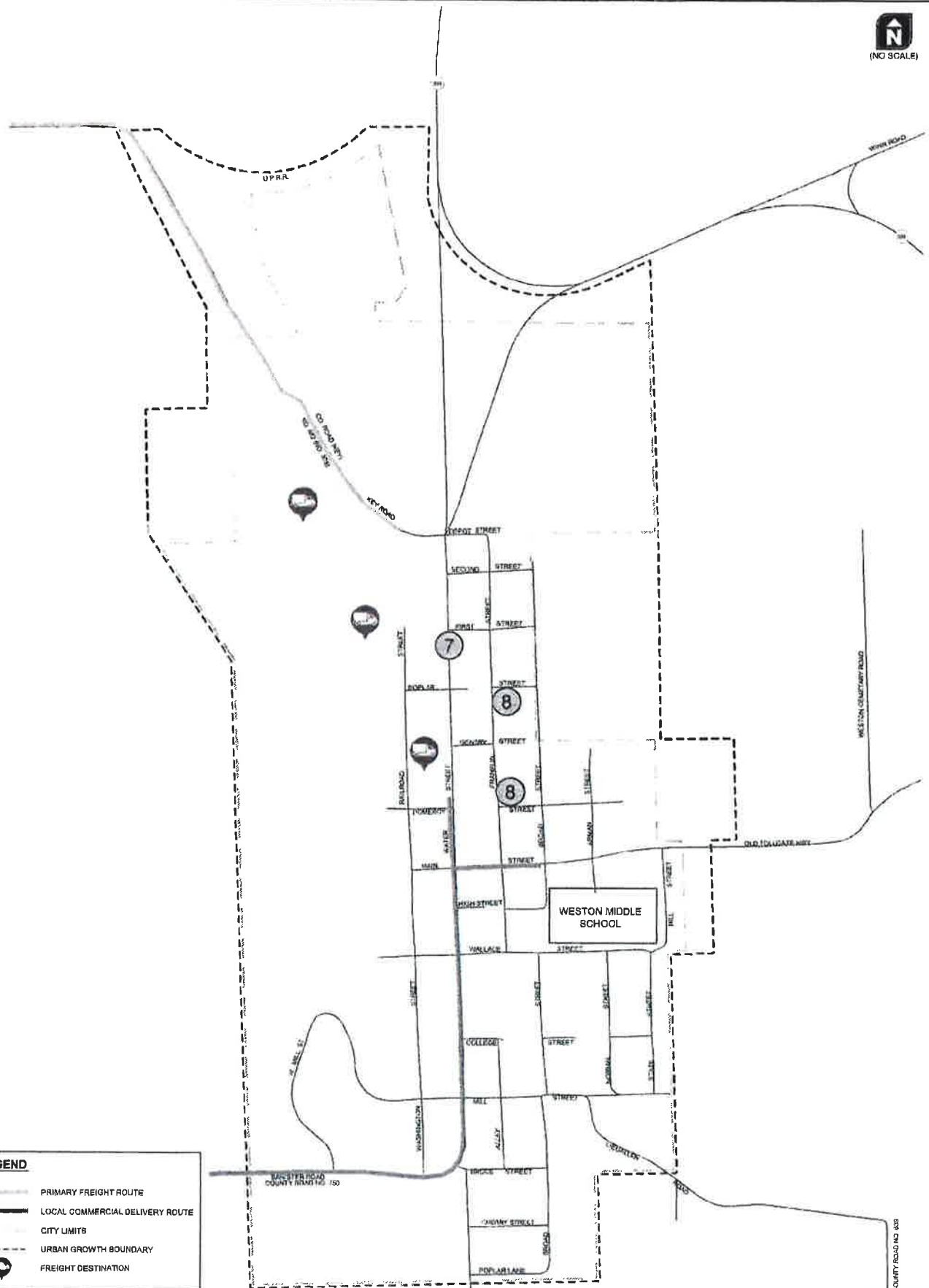
Scale: 0 10' 20' Feet
DATE: MAY 28, 2015
GREATWORKS

Figure 3-14 Project #6 - Downtown Pine Creek Interaction Site Concept



LEGEND

- PRIMARY FREIGHT ROUTE
- LOCAL COMMERCIAL DELIVERY ROUTE
- CITY LIMITS
- URBAN GROWTH BOUNDARY
- FREIGHT DESTINATION



**FREIGHT ROUTES AND PLANNED PROJECTS
WESTON, OREGON**

FIGURE
3-15

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More details on the planned projects can be found in the prospectus sheets contained in the appendix.

TRANSIT SYSTEM

Transit service in Weston includes intercity bus service provided by the Confederated Tribes of the Umatilla Indian Reservation (CTUIR) and Athena-Weston School District bussing. The CTUIR funds public transportation to Weston through Kayak Public Transit on the Walla Walla Whistler Schedule. The bus stops in Weston in front of the Post Office.

This plan includes a project to increase the visibility and convenience of the existing bus service by providing a shelter at the existing bus stop. This project would need to be coordinated with CTUIR. At the writing of this plan, CTUIR is interested in pursuing this project and in coordinating the effort to place a shelter in Weston with similar projects in other cities served by Kayak (e.g. Athena, Milton-Freewater). More information about this project can be found in the prospectus sheets contained in the appendix.

BICYCLE SYSTEM

There are no dedicated facilities for bicycling (e.g., bike lanes, paths) in Weston. People riding bicycles must either ride in the street with motor vehicle traffic or on the sidewalk, if present, with pedestrians. Analyses performed for this project and conversations with Weston residents revealed that most streets are comfortable routes for most adults to bicycle in the road, due to their relatively low motor vehicle volumes and speeds. However, regional connections (e.g., Banister Road, OR 11, and OR 204) tend to have higher volumes and speeds. OR 11 and OR 204 have 8 to 10-foot wide shoulders, but no bike lanes. Banister Road does not have bike lanes and lacks any real substantial shoulder width.

Given that streets within Weston are generally comfortable places for adults to bicycle, the input provided through this planning process indicated that providing bicycle specific facilities within Weston is a lower priority than improving the pedestrian system. Providing bicycle connections on the regional system is desired, but outside the City's UGB. The Water Street Improvements project provides for sidewalks as wide as 8' in order to provide more space for children to ride along Water Street, but there are no bike-specific projects in this plan within Weston's UGB.

PROJECTS OUTSIDE WESTON'S UGB

Weston can only plan for and implement projects within its urban growth boundary. However, the City's residents and businesses depend on regional connections for transporting goods, attending school in Athena, and conducting personal business and travel. As a result of the important role County and State roads play in the city, Weston residents have expressed a desire for certain projects outside the City's UGB throughout the course of this project. Those projects are listed in Table 3- 5.

Table 3- 5 Projects Outside Weston's UGB Recommended for Implementing Agency Consideration

Project # ¹	Project Name	Implementing Agency
16	Weston-Athena Multimodal Connection	Umatilla County
17	OR 204/Water Street Realignment	ODOT
Not Shown on Map		
18	OR 11 Freight Signing	ODOT
19	OR 11 Bicycle/Pedestrian Crossing	ODOT

¹Project numbers are for reference only and do not indicate the project's priority level

In order to implement these projects, Weston will need to request that the responsible agency (i.e. ODOT, Umatilla County) consider the projects in their own planning efforts. More information about each of these projects can be found in the prospectus sheets in the appendix.

Chapter 4 Implementation Plan

IMPLEMENTATION PLAN

The City of Weston will not be able to fund all of the identified projects in this transportation plan on its own. Fortunately, there are a variety of options available to fund these projects. This chapter presents an overview of existing and future transportation funding estimates for Weston and identifies potential opportunities for the City to expand its transportation funding options.

HISTORY OF TRANSPORTATION FUNDING IN WESTON

The following section outlays historical transportation funding within the project area. City of Weston, Umatilla County, Confederated Tribes of the Umatilla Indian Reservation (CTUIR), and Oregon Department of Transportation (ODOT) staff were all contacted to compile this information.

Revenue Sources

Table 4- 1 displays the total revenue transferred into the City’s transportation budget since 1999, as provided by the City. The majority of the funding has come through grants and other external sources (e.g. Wildhorse Foundation, Special City Allotment [SCA]), though, with the exception of a \$25,000 SCA grant in 2010, the exact amounts provided by each source are unknown.

Table 4- 1 City of Weston Funds Transferred into City’s Transportation Budget, 1999-2013

FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	
1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Avg
0	100	557.7	0	0	0	0	0	0	0	160	42.5	25	30	65

¹All numbers shown in \$1,000s

As shown in Table 4- 1, the level of funding transferred into the City’s transportation budget has been inconsistent and dependent to an unknown extent on external sources. Therefore it is likely not prudent to assume any particular amount of transportation funding will be available on a yearly basis for future transportation projects.

Expenditure History

Table 4- 2 displays the total expenditures on transportation related projects within the City of Weston since 1999, as provided by the City. All expenditures are noted as being for street paving.

Table 4- 2 City of Weston Expenditure History

FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Avg
0	10	105.6	120.8	101.2	144.6	0	84.2	37.4	0	36.5	25	0	0	47.5

All numbers shown in \$1,000s

The City has spent about \$47,500 per year since 1999 to fund street paving projects, or about 73% of the amount transferred in to the City's transportation budget. These expenditures do not include other maintenance projects, such as snow plowing, sanding, and sweeping, for which the City was unable to provide information. The City has previously indicated that their general budget is typically only able to cover basic maintenance and operational costs and not capital projects.

Other Agencies

The study area for this project includes county and state owned roads. Additionally, CTUIR operates the Kayak public transit service that provides bus service to Weston. ODOT was able to identify spending information for projects in areas near Weston, but was not able to specifically identify any projects within the study area. Umatilla County reported that it has only performed basic maintenance on its roads surrounding Weston. CTUIR has provided bus service to Weston, but has not undertaken any capital projects in Weston related to its transit service in the past ten years.

PROJECTED TRANSPORTATION FUNDING

Given the City's historical reliance on external funding sources for capital projects and resulting variability in revenues transferred into the City's transportation budget, it is not possible to provide a reliable projection of future transportation funding. As was previously noted, the City has stated that it is generally only able to cover maintenance and operations costs from its yearly budget. Capital projects will need to be funded through external sources.

POTENTIAL FUNDING SOURCES

The City will continue to rely upon transportation improvement grants, partnerships with regional and state agencies, and other funding sources to help implement the projects identified in this plan update. Table 4- 3 identifies a list of potential grant sources and partnering opportunities for the City to consider as it looks to implement the projects identified in this plan. Following Table 4- 3, Table 4- 4 identifies a list of potential new funding sources for the City to consider in an effort to bolster funds for additional capital improvement projects.

Table 4- 3 Potential Grant Sources and Partnership Opportunities for Consideration in Weston

Funding Source	Description	Potential Facility Benefit	Opportunities/Constraints
Statewide Transportation Improvement Program (STIP)	The Statewide Transportation Improvement Program (STIP) is Oregon's 4-year capital improvement program. This scheduling and funding document is updated every two years. Projects included on the STIP are allocated into the five different ODOT regions. Projects are generally divided into one of two categories: "Fix-it" or "Enhance."	<ul style="list-style-type: none"> - Streets - Sidewalks - Bike lanes - Trails 	<p>The next STIP (2015-2018) has been adopted by the Oregon Transportation Commission and is pending Federal Highway Administration approval.</p> <p>Weston can apply for "Enhance" funds for projects, which encompasses a range of projects, including those that were previously under the statewide bicycle and pedestrian program. The City should work with their ODOT Region 5 local agency liaison and any appropriate statewide program directors (e.g. Bicycle and Pedestrian coordinator) in preparing an application to improve their chances of success in obtaining funds. <i>Applications for the 2018-21 STIP Enhance funds are due August 3, 2015.</i></p>
Oregon Parks and Recreation Funds	Recreational Trails Grants are national grants administered by the Oregon Parks and Recreation Department (OPRD) for recreational trail-related projects, such as hiking, running, bicycling, off-road motorcycling and all-terrain vehicle riding.	<ul style="list-style-type: none"> - Trails 	OPRD distributes more than \$4 million annually to Oregon communities for outdoor recreation project, and has awarded more than \$40 million in grants across the state since 1999. Grants can be awarded to non-profits, cities, counties, and state and federal agencies.
Public/Private Partnerships	Public/private partnerships are agreements between public and private partners that can benefit from the same improvements. They have been used in several places around the country to provide public transportation amenities within the public right-of-way in exchange for operational revenue from the facilities.	<ul style="list-style-type: none"> - Streets - Sidewalks - Bike lanes - Trails - Transit 	These partnerships could be used to provide services such as charging stations, public parking lots, bicycle racks, benches, or public art installations. Specific opportunities in Weston could include implementing streetscape amenities and public art at the Main/Water intersection or the north or south gateways potentially in partnership with local employers. Creek restoration in association with tribal organizations could be another opportunity.
Community Service Projects	Small-scale improvements could be organized, led and conducted by various members of the community to help implement and offset the costs of larger infrastructure projects.	<ul style="list-style-type: none"> - Trails - Pine Creek interaction sites - Gateway treatments 	Community service projects could be used to help clear brush or implement portions of the vision for Pine Creek interaction sites at the City park or Saling House. They could also be used to help implement the vision for the north and south gateways, similar to the community-based effort to put in the existing wagon monument north of Depot Street.
Immediate Opportunity Fund (IOF)	The IOF is a discretionary fund that can be used for the construction and improvement of streets and roads that are needed to support primary economic development. Access to this fund is discretionary and the fund may only be used when other sources of financial support are unavailable or insufficient. The IOF is not a replacement or substitute for other funding sources.	<ul style="list-style-type: none"> - Streets - Sidewalks - Bike lanes - Rail 	The IOF could potentially be used by Weston for a project that would enhance its economic competitiveness, such as a project that would improve access to the food processing facilities.

Funding Source	Description	Potential Facility Benefit	Opportunities/Constraints
Local Agency Bridge Program	<p>ODOT sets aside funds that are specifically targeted toward bridges that are off the State system. A statewide committee makes the final decision on which bridges are funded. Cities and counties are both eligible to apply for funds.</p>	<ul style="list-style-type: none"> - Bridges 	<p>Critical failure bridges tend to rise to the top for funding through this program. There are a lot of structures with as poor ratings as those in Weston, but the weight limits of the Franklin Street bridges being below a fire truck may be an issue that helps these structures receive funding.</p> <p>If federal funding is used for the bridges, the City must provide a 10.72% match. This could be difficult given the cost of bridge replacement, but the City can use SCA and other funds to help cover this match.</p> <p>The City should work with its ODOT Region 5 local agency liaison if it wants to pursue these funds.</p>
Special City Allotment	<p>ODOT sets aside a portion of federal gas tax revenue to distribute to small cities, such as Weston. Cities are eligible for grants of up to \$50,000 every 7-8 years.</p>	<ul style="list-style-type: none"> - Streets - Sidewalks - Bike lanes 	<p>Weston received a \$25,000 grant in 2010 that was used to repave Main Street. It will be eligible again in 2017-18.</p>
Safe Routes to School	<p>The statewide Safe Routes to School (SRTS) program provides grants for non-infrastructure projects and programs.</p>	<ul style="list-style-type: none"> - Educational programs 	<p>The City could partner with the school district to apply for funds for educational activities at Weston Middle School. Contact the state SRTS program manager for more details.</p>
ODOT Public Transit Division	<p>The ODOT Public Transit Division administers a number of grant programs, including programs earmarked specifically for rural communities and tribal organizations</p>	<ul style="list-style-type: none"> - Transit related projects 	<p>The City could explore partnering with CTUJR on applying for funds to construct a formal bus stop with a bench and shelter in Weston. Depending on the location of the stop, this project could help implement potential streetscape improvements identified during this project.</p>
Umatilla County	<p>Umatilla County owns and maintains roadways connecting Weston to OR 11 (i.e., Banister Road and Key Road).</p>	<ul style="list-style-type: none"> - Streets - Sidewalks - Bike lanes - Trails 	<p>The City will need to partner with the County on any projects outside City limits and/or involving County roads, such as the multimodal connection to Athena along Banister Road.</p>

Table 4- 4 Potential New Funding Sources for Consideration in Weston

Funding Source	Description	Potential Facility Benefit	Opportunities/Constraints
User Fees	Fees tacked onto a monthly utility bill or tied to the annual registration of a vehicle to pay for improvements, expansion, and maintenance to the street system. This may be a more equitable assessment given the varying fuel efficiency of vehicles.	Primarily Street Improvements	The cost of implementing such a system could be prohibitive given the need to track the number of vehicle miles traveled in every vehicle. Additionally, a user fee specific to a single jurisdiction does not account for the street use from vehicles registered in other jurisdictions.
Street Utility Fees/Road Maintenance Fee	The fee is based on the number of trips a particular land use generates and is usually collected through a regular utility bill. For the communities in Oregon that have adopted this approach, it provides a stable source of revenue to pay for street maintenance.	<ul style="list-style-type: none"> - Streets - Sidewalks - Bike lanes - Trails 	A \$5.00 monthly fee charged to the estimated 252 households in Weston would generate approximately \$15,120 per year in revenue from residential uses. The City would need to draft a methodology consistent with state requirements for street maintenance fees.
Local Fuel Tax	A local tax assessed on fuel purchased within the jurisdiction that has assessed the tax.	Primarily street maintenance or project specific intersection/roadway improvements.	There is only one primary gas station in the city, thereby putting the entire burden on one facility. Furthermore, Weston has little daily regional through traffic. This lack of significant through traffic places more of the tax burden on the residents of Weston.
Systems Development Charges (SDCs)	SDCs are fees assessed on development for their impacts on public infrastructure.	<ul style="list-style-type: none"> - Streets - Sidewalks - Bike lanes - Trails - Transit 	The City of Weston does not currently impose transportation SDCs.
Stormwater SDCs, Grants, and Loans	SDCs, Grants, and Loans obtained for the purposes of making improvements to stormwater management facilities.	Primarily Street Improvements	Some jurisdictions in Oregon have used these tools to finance the construction and maintenance of Green Streets.
Optional Tax	A tax that is paid at the option of the taxpayer to fund improvements. Usually not a legislative requirement to pay the tax and paid at the time other taxes are collected, optional taxes are usually less controversial and easily collected since they require the taxpayer to decide whether or not to pay the additional tax.	<ul style="list-style-type: none"> - Streets - Sidewalks - Bike lanes - Trails - Transit 	The voluntary nature of the tax limits the reliability and stabieness of the funding source.
Sponsorship	Financial backing of a project by a private corporation or public interest group, as a means of enhancing its corporate image.	<ul style="list-style-type: none"> - Trails - Transit 	Sponsorship has primarily been used by transit providers to help offset the cost of providing transit services and maintaining transit related improvements. Potential sponsorship opportunities could include Smith Frozen Foods or J&J Snack Foods
Bonds	Bonds would be debt issued on the bond market to pay for specific capital projects.	Capital improvements	Adding long-term debt to the City's budget could be difficult.

Table 4- 3 and Table 4- 4 are not an all-inclusive list of alternative funding sources. Each of these financing tools will require additional research to ensure that it is the right fit for the community, and can be closely matched with achieving the objectives of the TSP update.

IMPLEMENTATION

Given that the City will likely require external funding sources to implement any of the projects in this plan, the City should prioritize its efforts to put its resources toward the projects it considers the most important and most likely to be funded . Accordingly, the projects for this plan have been evaluated against the following prioritization criteria:

- Relevancy to project objectives
- Adequacy of existing facility (i.e., is the project filling a need that is currently unmet or just an improvement?)
- Estimated cost relative to other projects
- Technical implementation considerations (e.g., potential construction or design challenges)
- Political implementation considerations (e.g., coordination with other agencies, potential property impacts)
- Potential Use

Table 4- 5 summarizes the projects into three implementation tiers:

- *High Priority* – These are the projects that scored the highest against the criteria described above and include the primary Water Street project, the bus stop enhancement project, and the projects from the Athena-Weston Safe Routes to School Plan. The Franklin Street Bridge Replacements are also included in this category because of their potential to reduce emergency response times.
- *Long-Term Priority* - This category includes all other projects within the City’s UGB. The City should look to implement these projects once the high priority projects have been completed, or if a particular funding source becomes available that is specific to one of these projects (e.g. a grant specifically focused on parks or street lighting conversions).
- *Projects outside Weston’s UGB* – These projects were not considered in the prioritization process since they are not within the City’s UGB. The City should request that the implementing agencies consider these projects in their planning efforts and look for opportunities to coordinate efforts across jurisdictions.

More detailed evaluation results can be found in the Volume 2 Technical Appendix.

Table 4- 5 Project Implementation Priority Tiers

Project #	Project Name
High Priority Projects	
1	Water Street Improvements
8	Franklin Street Bridge Replacements
9	Main Street Bus Stop Enhancements
10	Wallace Street Sidewalk
11	Weston Middle School Bus Entry Sidewalk
12	Weston Middle School Bus Exit Sidewalk
13	Main Street to Weston Middle School Connector Path
14	Wallace Street/Broad Street Intersection Improvements
Long-Term Priority Projects	
2	Water Street/Main Street Intersection Plaza Enhancement
3	Northern Gateway
4	Southern Gateway
5	City Park Pine Creek Interaction Site
6	Downtown Pine Creek Interaction Site
7	Water Street Bridge Replacement
15	LED Lighting Conversion
Projects Outside Weston's UGB	
16	Weston-Athena Multimodal Connection
17	OR 204/Water Street Realignment
18	OR 11 Freight Signing (not shown on map)
19	OR 11 Bicycle/Pedestrian Crossing (not shown on map)

REFERENCES

1. Dean Runyan Associates. *The Economic Significance of Bicycle-Related Travel in Oregon*. Prepared for Cycle Oregon. April 2013.
2. Umatilla County, Oregon. *County Health Rankings & Roadmaps*. Robert Wood Johnson Foundation and University of Wisconsin Population Health Institute. <http://www.countyhealthrankings.org/app/oregon/2015/rankings/umatilla/county/outcomes/overall/snapshot>. Accessed April 23, 2015.
3. Physical Activity. *Healthy People 2020*. U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion. <http://www.healthypeople.gov/2020/topics-objectives/topic/physical-activity>. Last updated: April 23, 2015.
4. Guide to Community Preventive Services. *Environmental and policy approaches to increase physical activity: community-scale urban design land use policies*. <http://www.thecommunityguide.org/pa/environmental-policy/communitypolicies.html>. Last updated: January 14, 2015.

Appendix A Project Prospectus Sheets

Project #: 1	Name:	Water Street Improvements	
Description:	<p>Improve Water Street to provide continuous sidewalks and intermittent on-street parking and swales for stormwater drainage. The proposed typical section and concept plan for the corridor are included in the attached pages. This project could be constructed in phases, if necessary. Phase 1 would include the west side of Water Street, which was identified by community members as the highest priority. Phase 2 would be the east side of Water Street. The concept plan and typical section are depictions of the ideal scenario and may need to be refined based on physical or right-of-way constraints.</p>		
Purpose:	<p>This project is expected to boost economic vitality, public and environmental health, and the efficiency of the transportation system in Weston. Water Street is the primary road through Weston. It currently lacks a complete sidewalk network and storm drain facilities. Providing sidewalks on Water Street will make it easier for Weston residents and visitors to walk to local businesses, Weston Middle School, the park, residences, or for recreation. Storm drainage swales will treat runoff from Water Street and reduce the amount of untreated water that flows into Pine Creek, improving the health of the waterway. The project will also beautify the street, providing visitors with a positive first impression of Weston.</p>		
Potential Challenges:	<p>A survey will be required to establish where the City has right-of-way. Additional right-of-way may need to be purchased, particularly for the east side improvements, or the project may need to be modified to fit within the existing right-of-way. Even if right-of-way is not required, the project will require repurposing land that is currently treated as the front yard of the adjacent residences. The hillside on the east side of Water Street south of College Street limits what can be implemented on this section.</p>		
Modes Affected	Priority Tier	Cost Estimate	
Pedestrian, Bicycle, Motor Vehicle	High	<p>\$1,720,000 (can be phased in – e.g. Sidewalk on west side only without replacing the retaining walls is estimated at \$200,000 without right-of-way)</p>	
Vicinity Map **See Figures on Next Page**			

Project #: 1

Name:

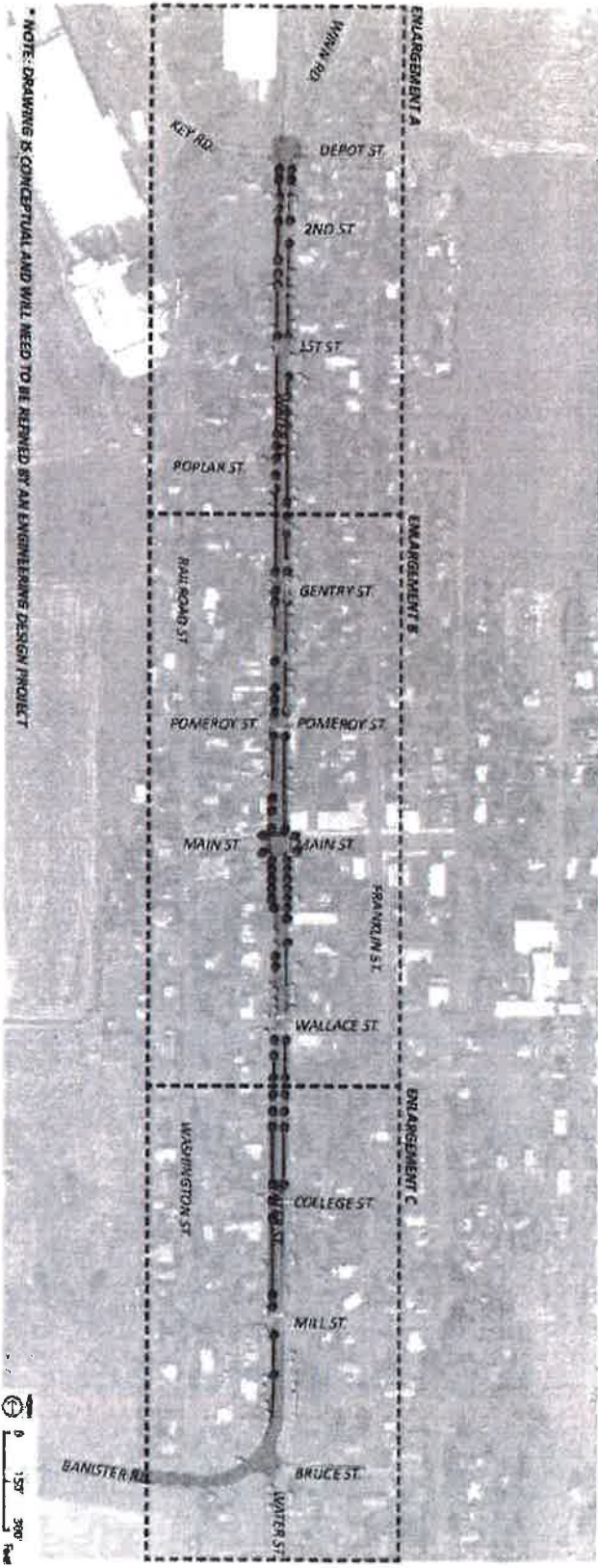
Water Street Improvements (cont.)



CITY OF WESTON
1885
WESTON SYSTEM PLAN - OVERALL
Conceptual Plan Preferred Alternative
Weston Transportation System Plan Update



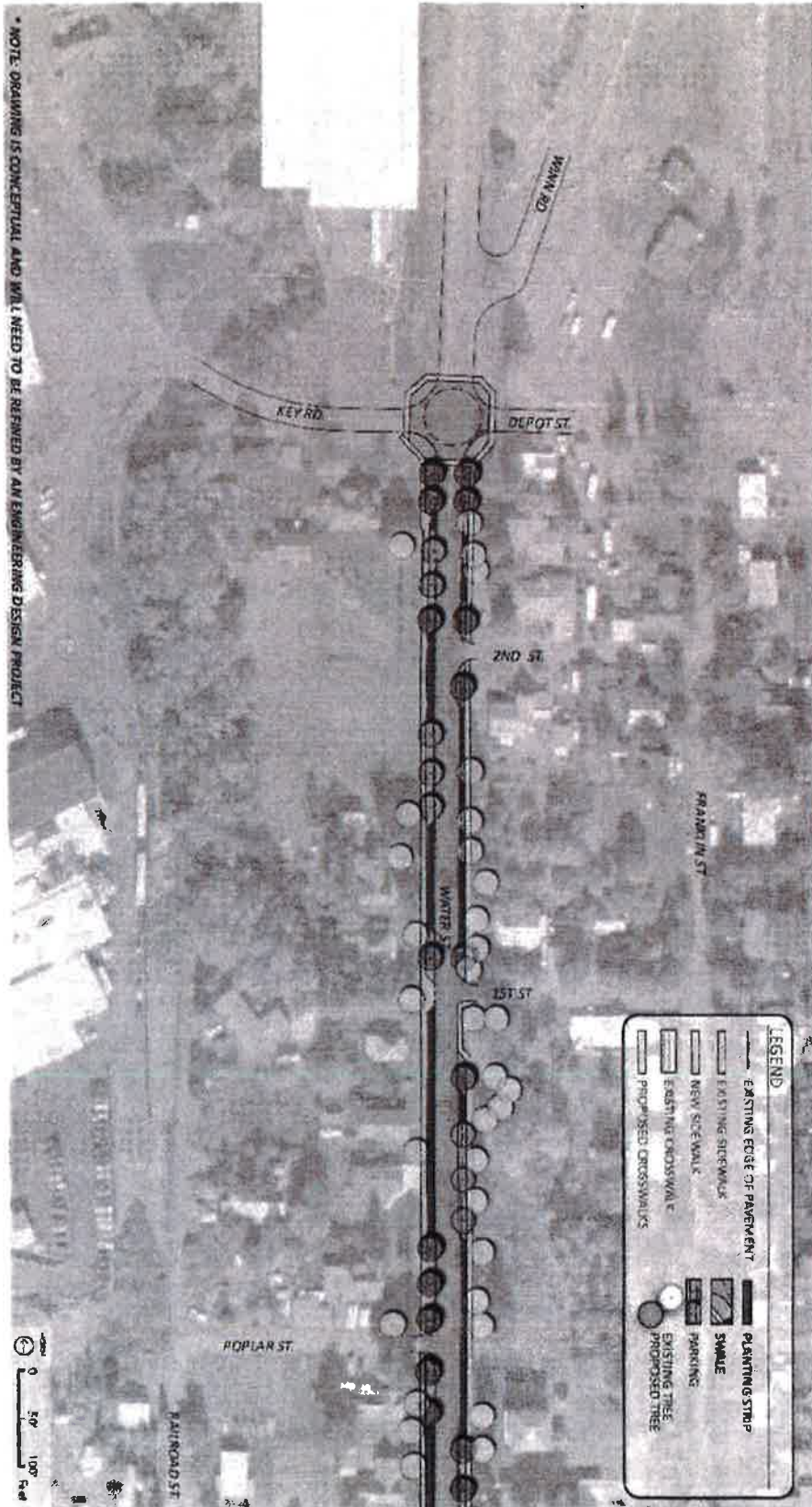
April 28, 2015



Project #: 1 Name: Water Street Improvements (cont.)



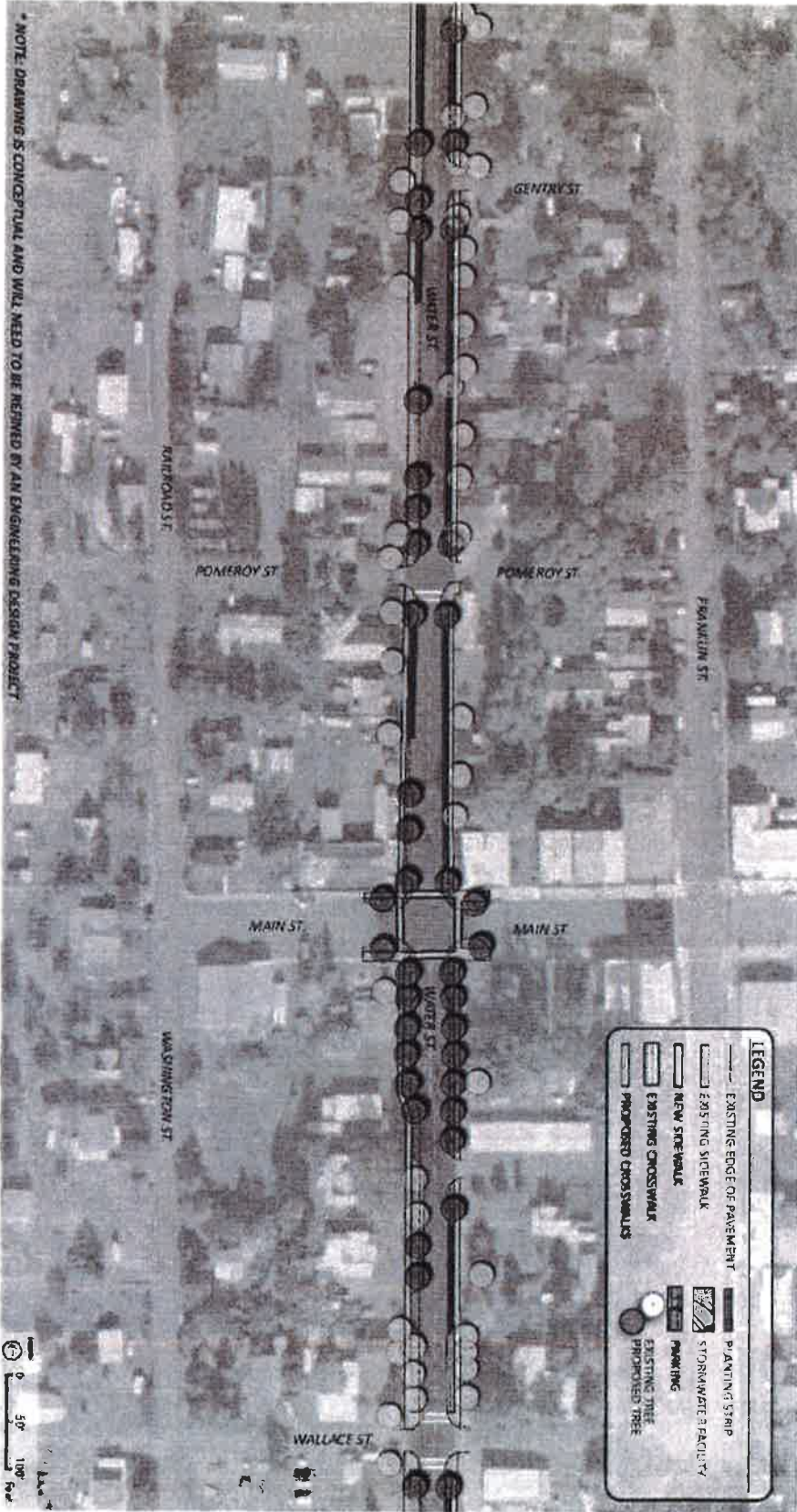
WESTON SYSTEM PLAN - ENLARGEMENT A
 Conceptual Plan Preferred Alternative
 Weston Transportation System Plan Update



Project #: 1 Name: Water Street Improvements (cont.)



WESTON SYSTEM PLAN - ENLARGEMENT B
 Conceptual Plan Preferred Alternative
 Weston Transportation System Plan Update

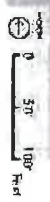
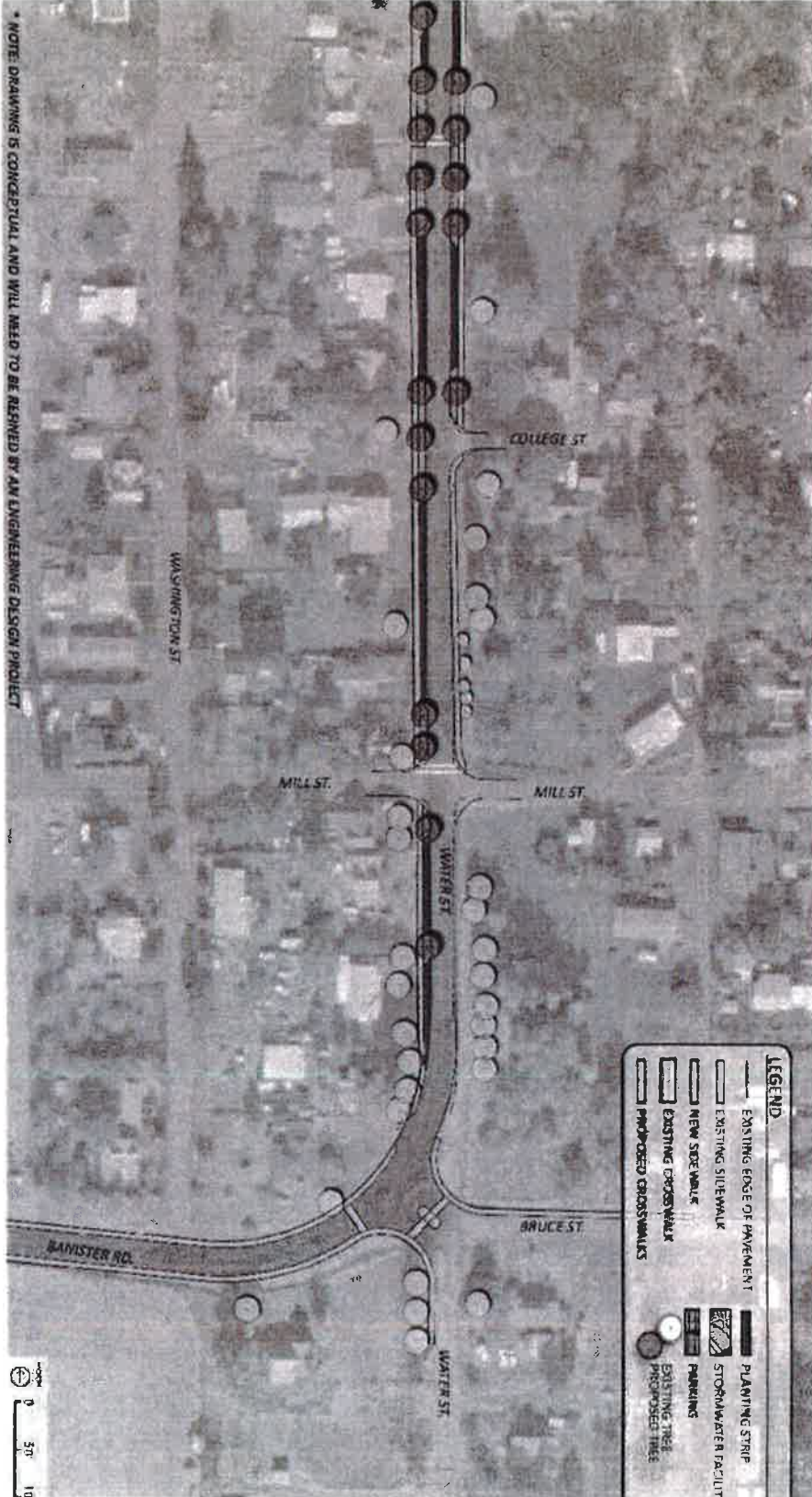


May 28, 2015

Project #: 1 Name: Water Street Improvements (cont.)



WESTON SYSTEM PLAN - ENLARGEMENT C
Conceptual Plan Preferred Alternative
 Weston Transportation System Plan Update

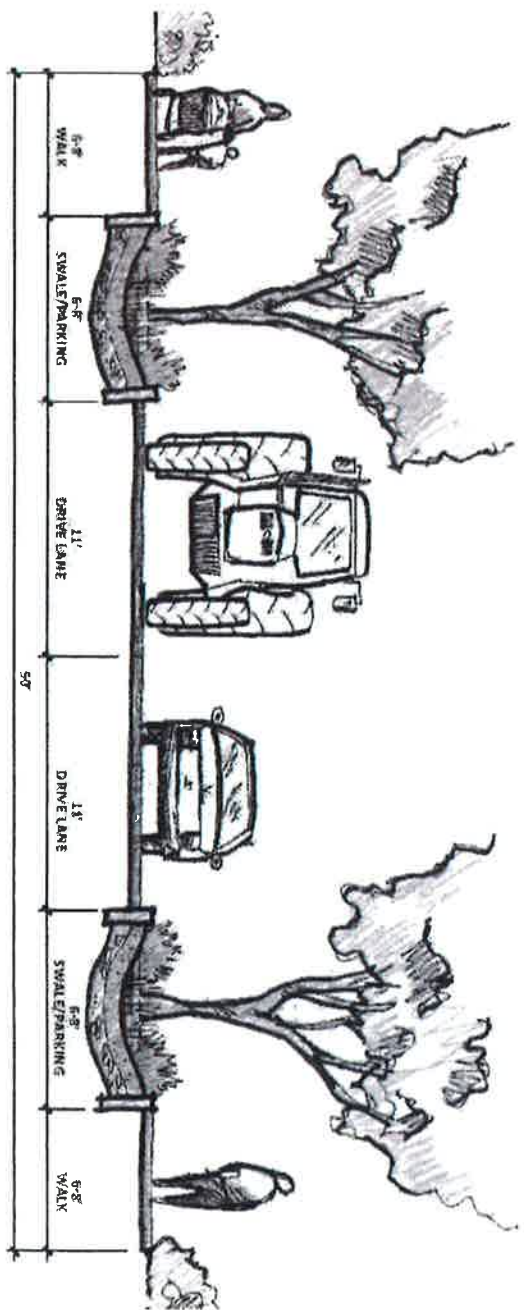


May 28, 2015

Project #: 1	Name:	Water Street Improvements (cont.)
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Preferred Alternative

- POSITIVES:**
- Wider swales on both sides of street
 - Street trees on both sides of street
 - East walkway wider
 - Vegetated buffer from vehicle traffic on both sides of street
 - Intermittent parking on both sides of street
 - Wider planters provide larger trees
- NEGATIVE:**
- Narrower paved section limits size of equipment with on-coming traffic
 - No bike lane or shoulder

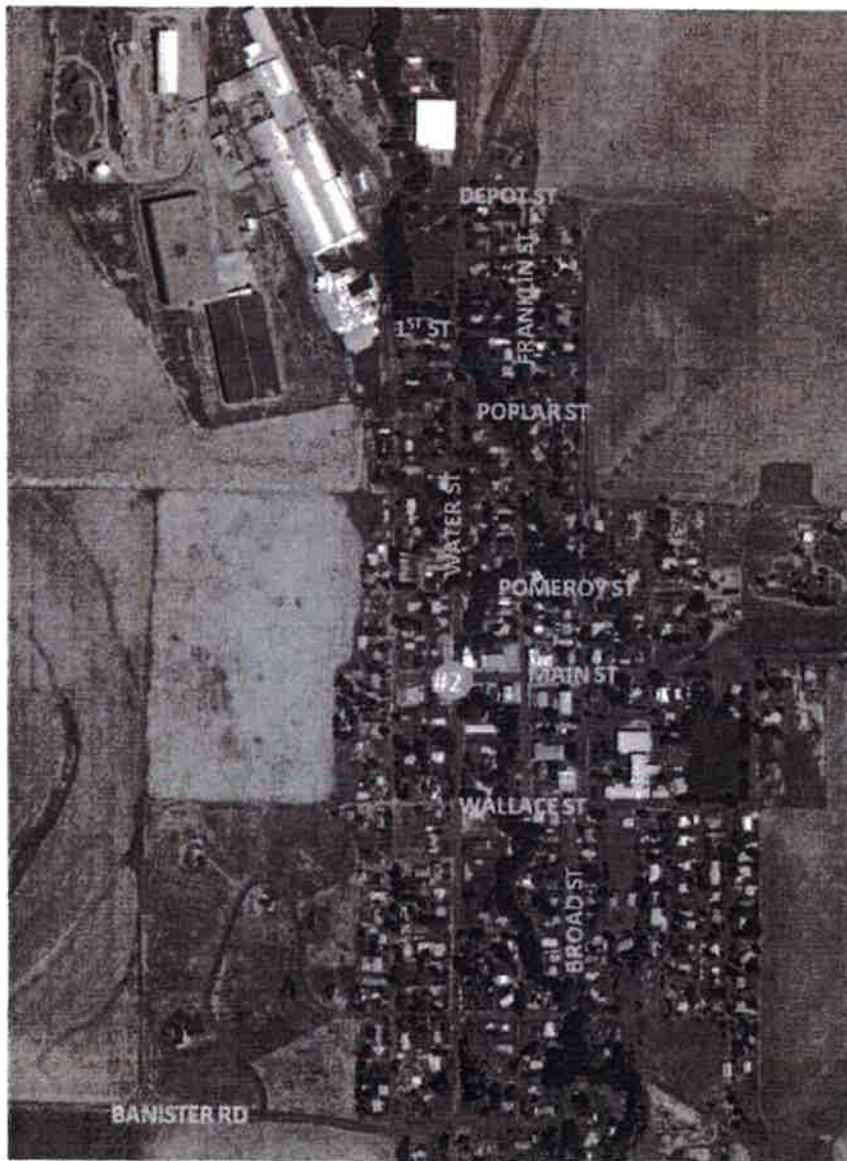


WATER STREET - TYPICAL SECTION ALTERNATIVES
 Conceptual Plan Preferred Alternative
 Weston Transportation System Plan Update



Project #: 2	Name:	Water Street/Main Street Intersection Plaza Enhancements
Description:	Create a plaza feel on the corners of the Water Street/Main Street intersection by constructing curb bulb-outs, textured crosswalks, seating, bike parking, and landscaping. Expand the existing mini park to include information about Weston and bike parking. Preserve loading access to the existing business on the southeast corner of the intersection. A concept drawing is shown in the next page.	
Purpose:	To improve the economic vitality and community feel of downtown Weston by creating a more pedestrian friendly environment that invites people to walk to and linger at the Water Street/Main Street intersection and adjacent businesses and plaza.	
Potential Challenges:	The final design will need to ensure that curb bulb-outs can accommodate freight movements for delivery vehicles. It should also be coordinated with the adjacent businesses to ensure that it meets their needs, including for parking. The decorative inlays may increase maintenance costs.	
Modes Affected	Priority Tier	Cost Estimate
Pedestrian, Bicycle, Motor Vehicle	Long-Term	\$65,000 (no ROW included)

Vicinity Map



Project #: 2

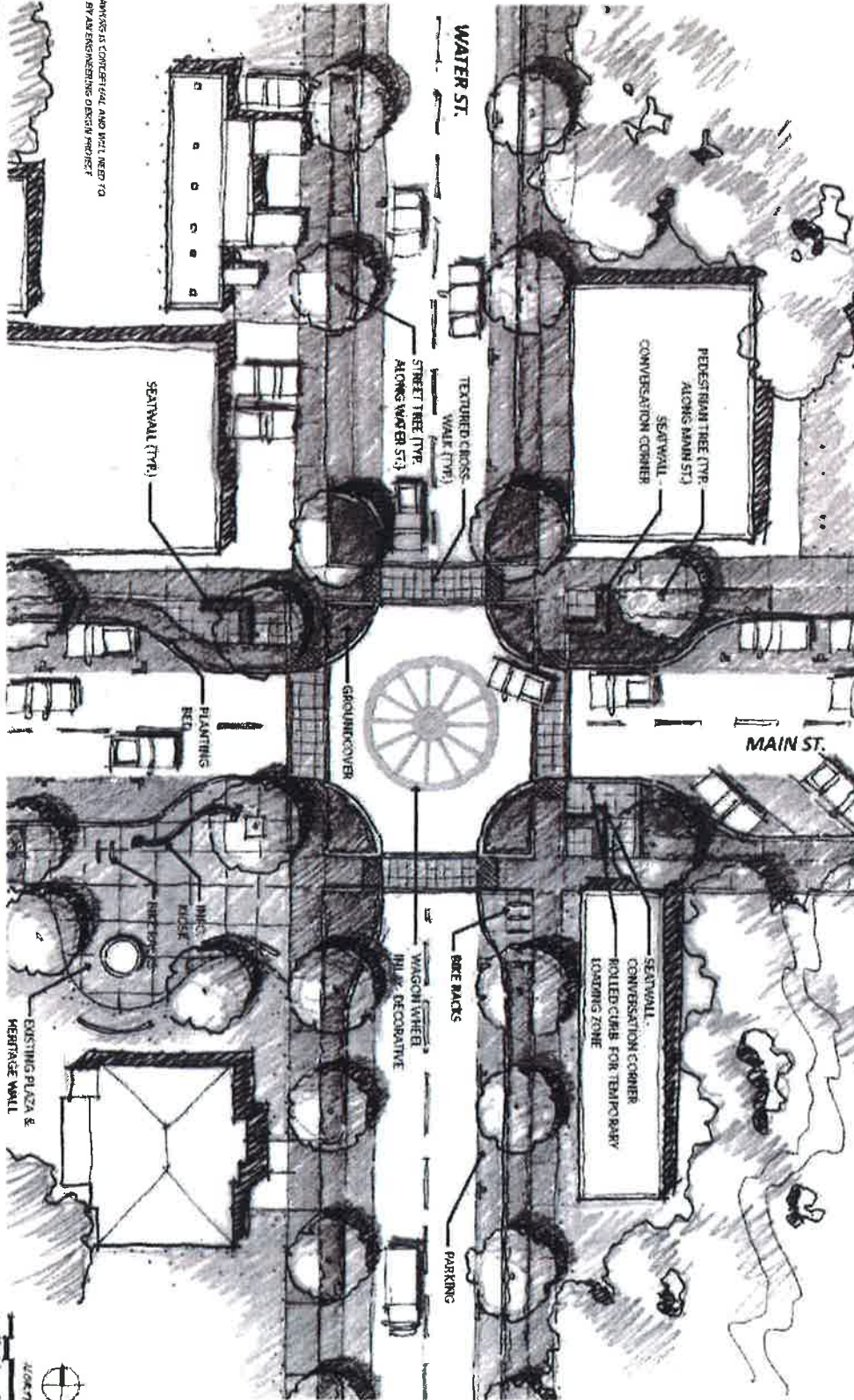
Name:

Water Street/Main Street Intersection Plaza Enhancements (cont.)



WATER ST. AND MAIN ST. INTERSECTION - PREFERRED ALTERNATIVE
Conceptual Plan Alternatives
Weston Transportation System Plan Update

NOTE: DRAWINGS AS CONCEPTUAL AND WILL NEED TO BE REFINED BY AN ENGINEERING DESIGN FIRM.



Project #: 3	Name:	Northern Gateway
Description:	Develop a gateway at the north end of Water Street at its intersection with Depot Street by adding in streetscape features, such as street trees, landscaping, and decorative inlays, fencing, and signage. Gateway posts can be used to hang banners advertising special events, such as Pioneer Days. Winn Road would be realigned to intersect Water Street north of Depot Street (if Winn Road's intersection with OR 204 remains, this may not be necessary if project #17 – OR 204/Water Street Realignment is built). A concept drawing is shown on the next page.	
Purpose:	This project will create a defined gateway to Weston on the north end of town, creating a positive impression and inviting visitors to spend time in the City. It should also help slow traffic entering Weston from the high speed highway system and will create a community amenity.	
Potential Challenges:	The final design will need to ensure that it can accommodate freight vehicles accessing the food processing facilities. Right-of-way may be required. The realignment of Winn Road needs to be coordinated with whether its intersection with OR 204 will remain or whether project #17 – OR 204/Water Street Realignment is built. The decorative inlays may increase maintenance costs.	

Modes Affected	Priority Tier	Cost Estimate
Pedestrian, Bicycle, Motor Vehicle	Long-Term	\$410,000 (includes some ROW)

Vicinity Map

Project #: 3

Name:

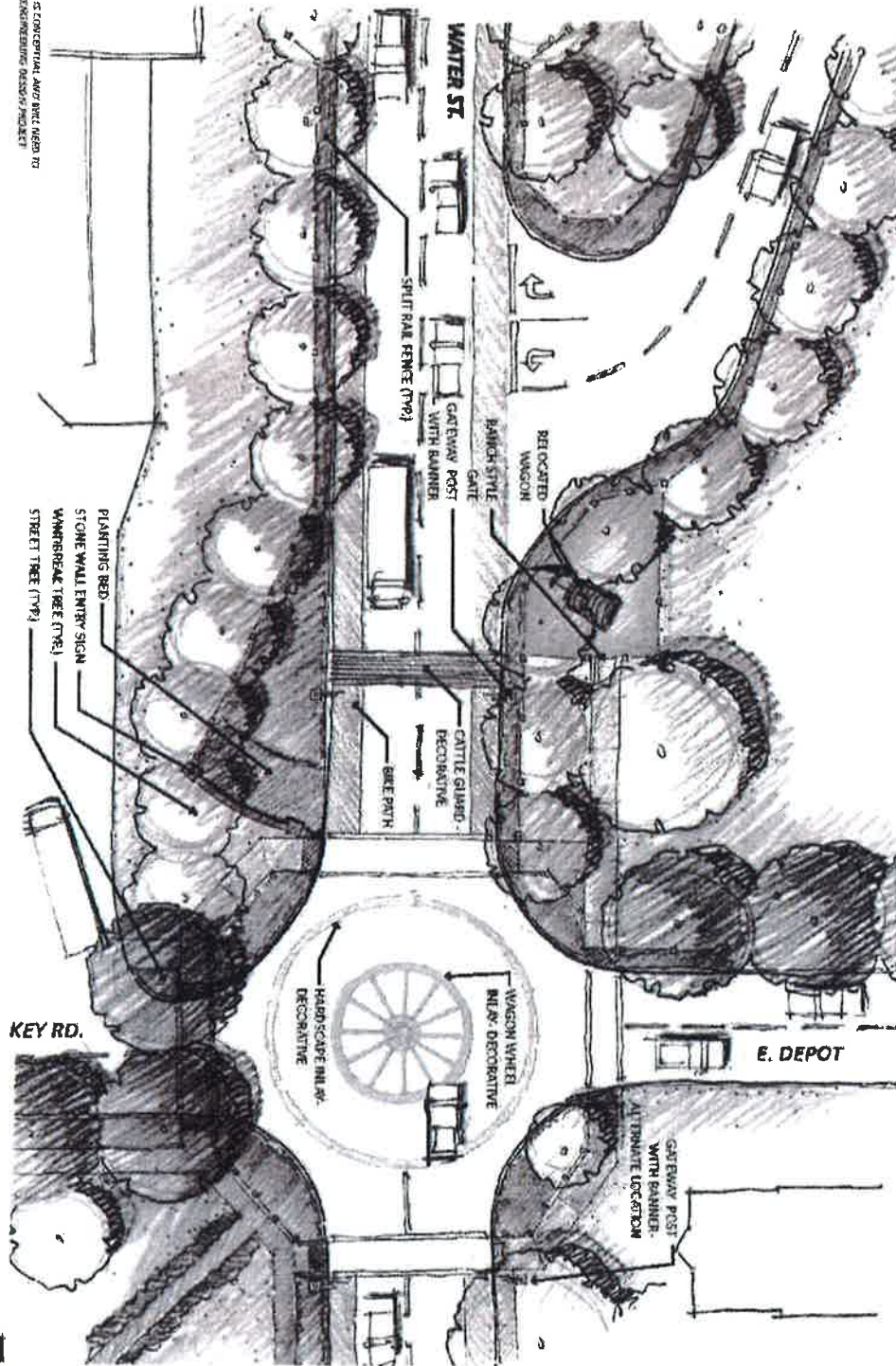
Northern Gateway (cont.)



WATER STREET GATEWAY - NORTH ENTRY

Conceptual Plan Alternatives
Weston Transportation System Plan Update

*NOTE: SKETCHING IS CONCEPTUAL AND NOT MEANT TO BE RETURNED BY ANY ENGINEERING DESIGN PROJECT



1/2" = 1'-0"



Project #: 4	Name:	Southern Gateway
Description:	Develop a gateway at the south end of Water Street and the eastern end of Banister Road by adding in streetscape features, such as street trees, landscaping, and decorative inlays, fencing, and signage. Construct sidewalks from the end of Project #1 – Water Street Improvements to Mill Street. Gateway posts can be used to hang banners advertising special events, such as Pioneer Days. Historic fire apparatus currently stored in City Hall could be located to the proposed fire station property. A concept drawing is shown on the next page.	
Purpose:	This project will create a defined gateway to Weston on the south end of town, creating a positive impression and inviting visitors to spend time in the City. It should also help slow traffic entering Weston from the high speed regional system and will create a community amenity.	
Potential Challenges:	The final design will need to ensure that it can accommodate farm vehicles turning onto McLean Road. Right-of-way may be required. Coordination with the fire district will be necessary to locate the fire apparatus on their property. The decorative inlays may increase maintenance costs.	
Modes Affected	Priority Tier	Cost Estimate
Pedestrian, Bicycle, Motor Vehicle	Long-Term	\$165,000 (no ROW included)

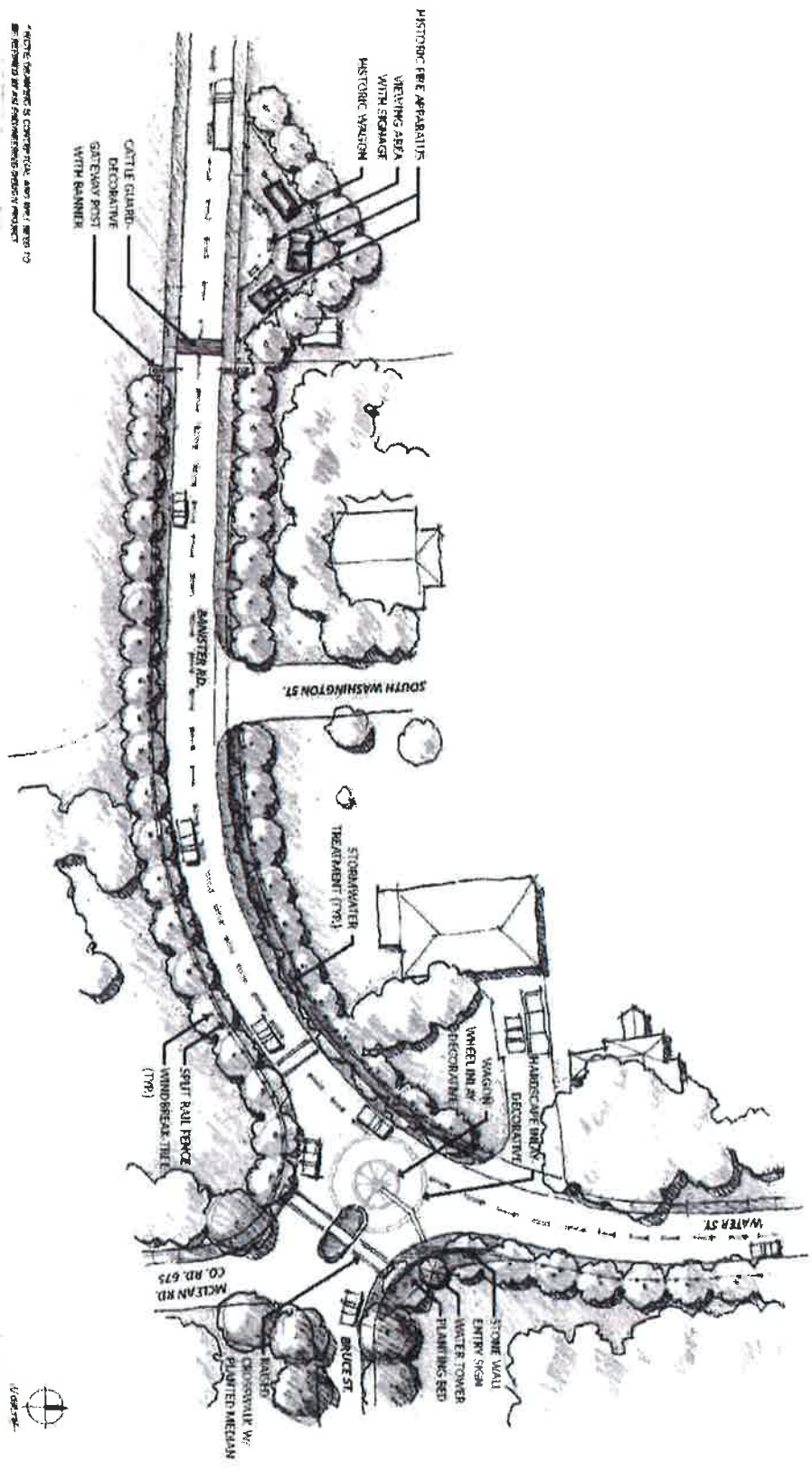
Vicinity Map



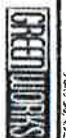
Project #: 4	Name:	Southern Gateway (cont.)
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BANISTER ROAD GATEWAY - SOUTH ENTRY
 Conceptual Plan Alternatives
 Weston Transportation System Plan Update



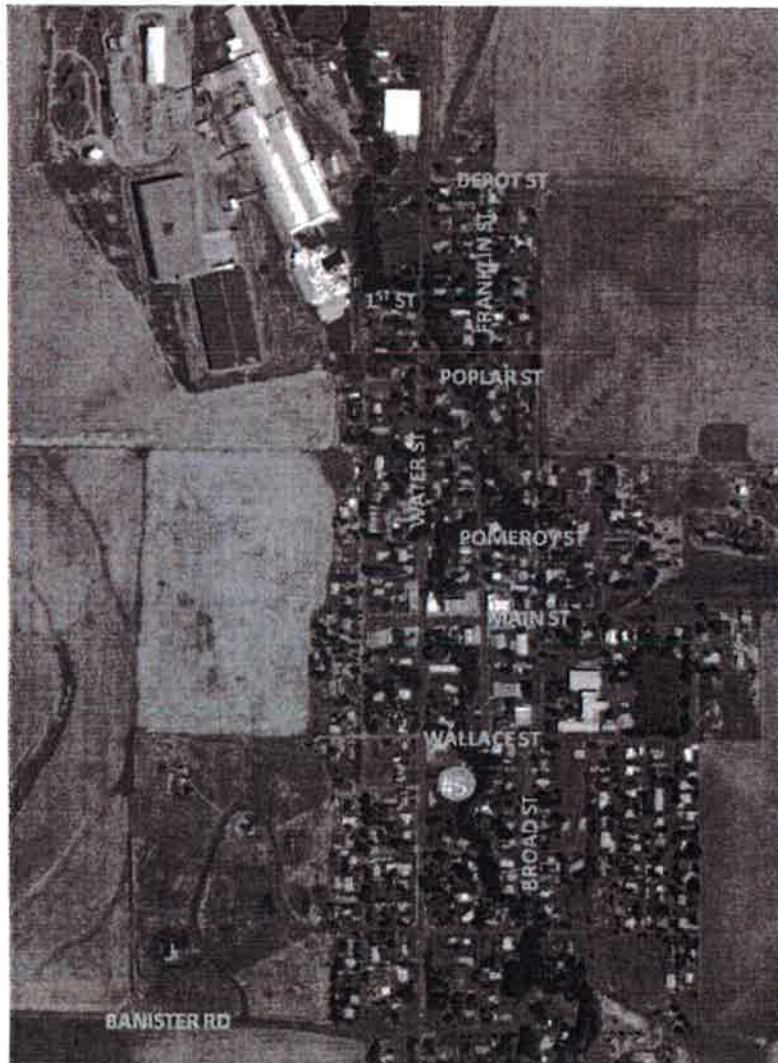
*NOTE: DRAWING IS CONCEPTUAL AND NOT TO BE USED AS A BASIS FOR CONTRACTS OR OTHER LEGAL PROCEEDINGS.



June 20, 2015

Project #: 5	Name:	City Park Pine Creek Interaction Site
Description:	Construct a site where people can view Pine Creek at the existing City Park. This could be done in a two-phase approach. The first phase would include a new overlook of Pine Creek as well as stream bank enhancements, a path from Wallace Street to the overlook, and a crossing of Wallace Street west of the creek. The second phase would include tearing down the Public Works Storage Yard and replacing it with a grass field. A new pedestrian bridge on the south side of Wallace Street would also be built with this second phase. Rolled curb could be installed on Water Street to allow people to park on the new lawn where the Public Works facility previously was during events, such as Pioneer Days. A concept drawing is shown on the next page.	
Purpose:	To enhance the livelihood of the park by providing a place where people can view Pine Creek and adding additional walking trails and expanding the park.	
Potential Challenges:	A new site for Public Works would need to be found. The pedestrian bridge may require obtaining right-of-way on the east side of the creek.	
Modes Affected	Priority Tier	Cost Estimate
Pedestrian	Long-Term	\$33,000 (Phase 1), \$659,000 (Phase 2)

Vicinity Map



Project #: 5

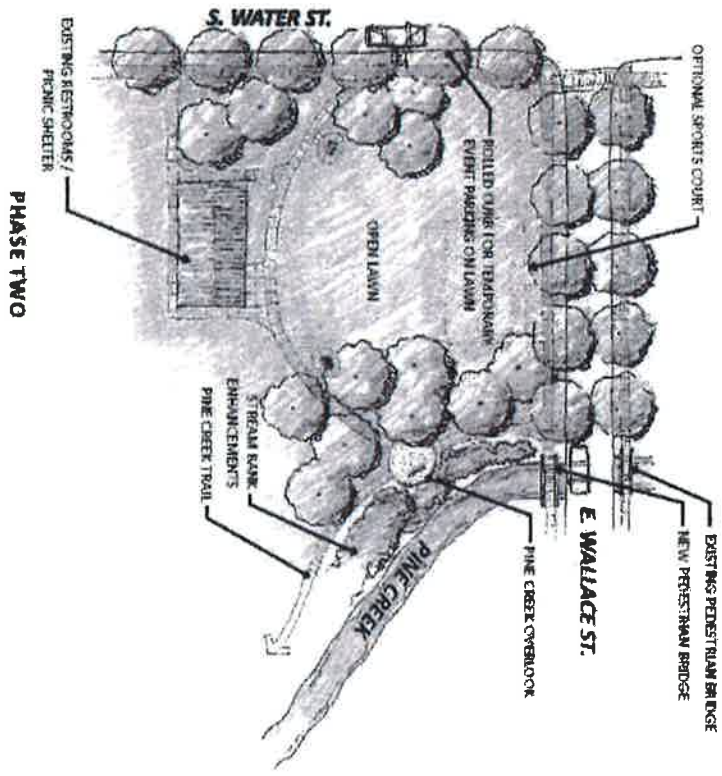
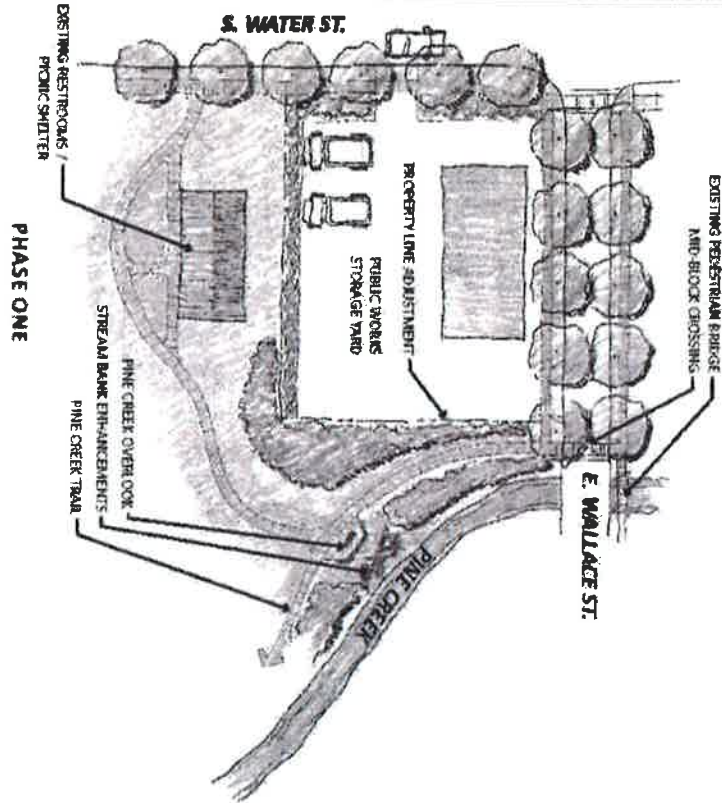
Name:

City Park Pine Creek Interaction Site (cont.)



ELLIOTT PARK ENTRY
Conceptual Plan Alternatives
Weston Transportation System Plan Update

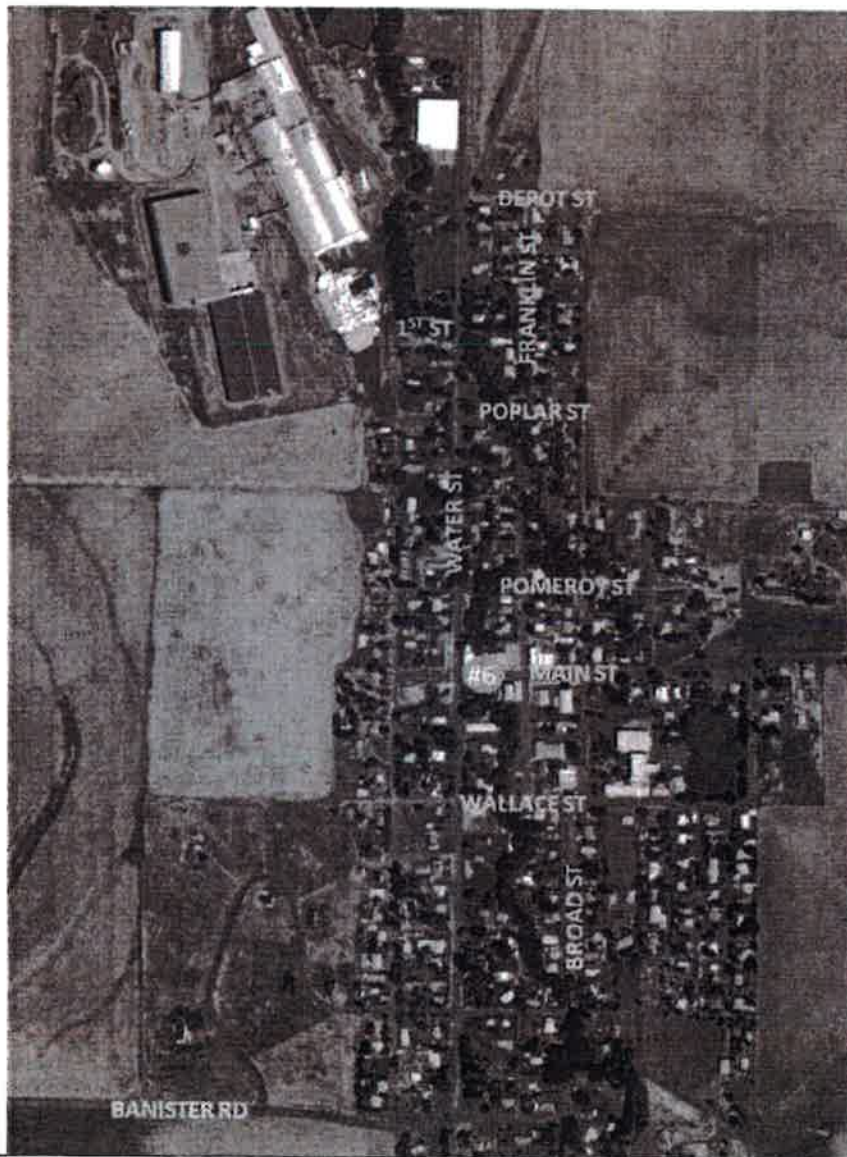
NOTE: DRAWINGS ARE CONCEPTUAL AND WILL NEED TO BE
REFINED BY AN ENVIRONMENTAL DESIGN ARCHITECT



MAY 28, 2015

Project #: 6	Name:	Downtown Pine Creek Interaction Site
Description:	Make the creek a focal point in downtown by carrying the design from Project #2 – Water Street/Main Street Intersection Plaza Enhancements across the bridge over Pine Creek on the south side of Main Street. Provide a viewing terrace on the east side of the creek, including interpretive signs. A concept drawing is shown on the next page.	
Purpose:	To enhance the experience in Weston's downtown by providing a place where people can sit and view nature, encouraging residents and visitors to spend more time in Weston's primary commercial area.	
Potential Challenges:	The lower viewing terrace is on private property, so right-of-way may need to be purchased or some use agreement executed in order to complete this part of the concept. Construction near the stream bank will require environmental considerations.	
Modes Affected Pedestrian	Priority Tier Long-Term	Cost Estimate \$10,000 (no ROW included)

Vicinity Map



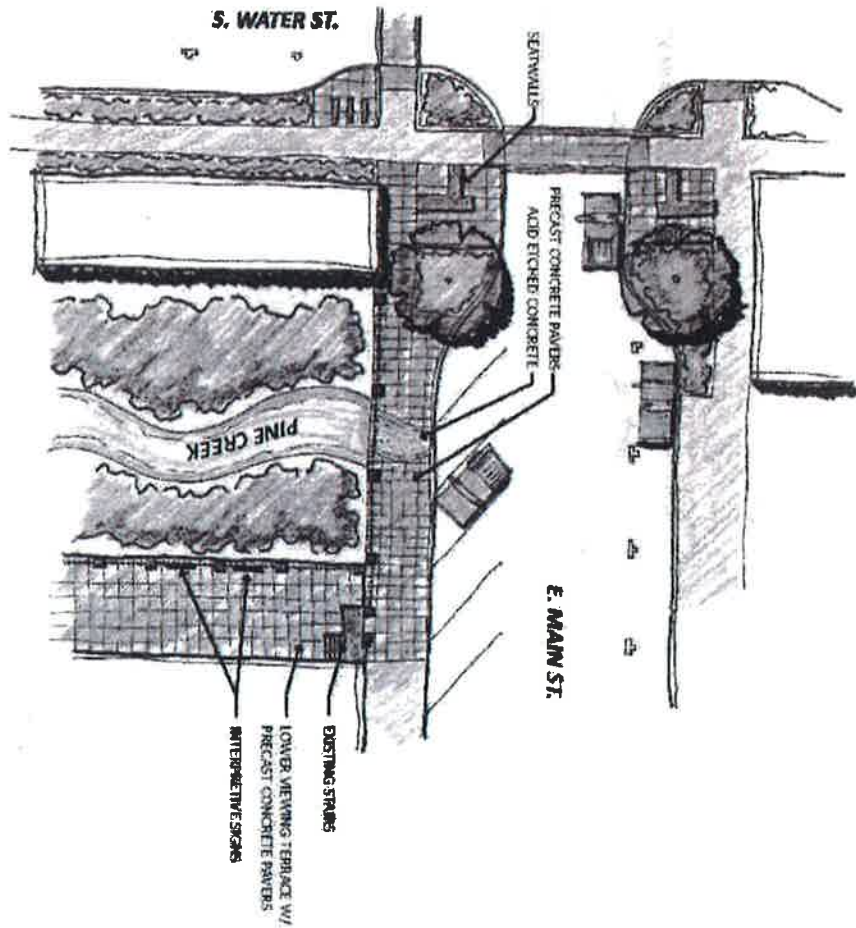
Project #: 6

Name:

Downtown Pine Creek Interaction Site (cont.)



DOWNTOWN CREEK OVERLOOK
Conceptual Plan Alternatives
Weston Transportation System Plan Update



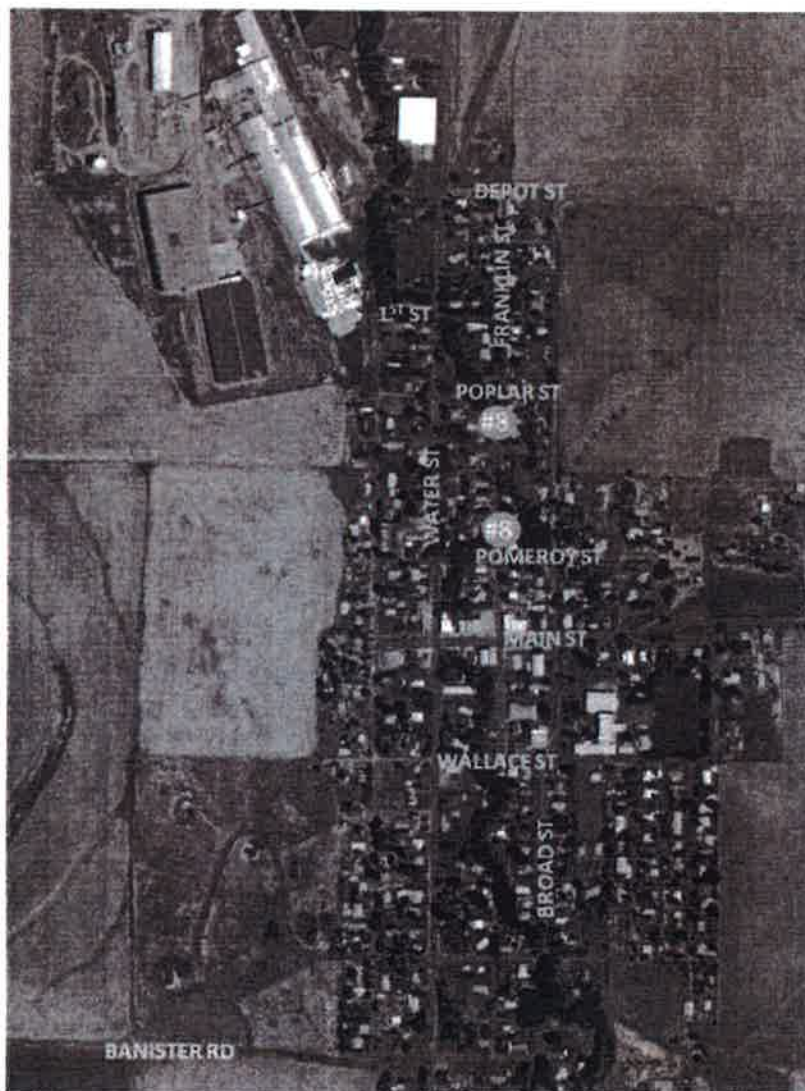
Project #: 7	Name:	Water Street Bridge Replacement
Description:	Replace the load-restricted bridge on Water Street immediately south of First Street. The new bridge should be designed to fit the context of the City's vision for Water Street, as it is laid out in Project #1 – Water Street Improvements, including sidewalks on both sides of the bridge.	
Purpose:	This project will improve the functionality of the bridge from a freight and pedestrian perspective. Due to structural capacity deficiencies, the bridge is load restricted to 20-30% of typical load limits. Water Street is the only direct connection from Weston north to OR 204 and the food processing facilities. Large delivery and other freight vehicles cannot use this bridge when carrying loads. The bridge does not have ADA compliant transitions for the sidewalk.	
Potential Challenges:	So long as it continues to function in its current state, the bridge may not be high enough on the statewide priority list to receive funding in the near or intermediate terms. Environmental considerations will need to be factored into the design and construction of the bridge.	

Modes Affected	Priority Tier	Cost Estimate
Pedestrian, Bicycle, Motor Vehicle	Long-Term	\$800,000



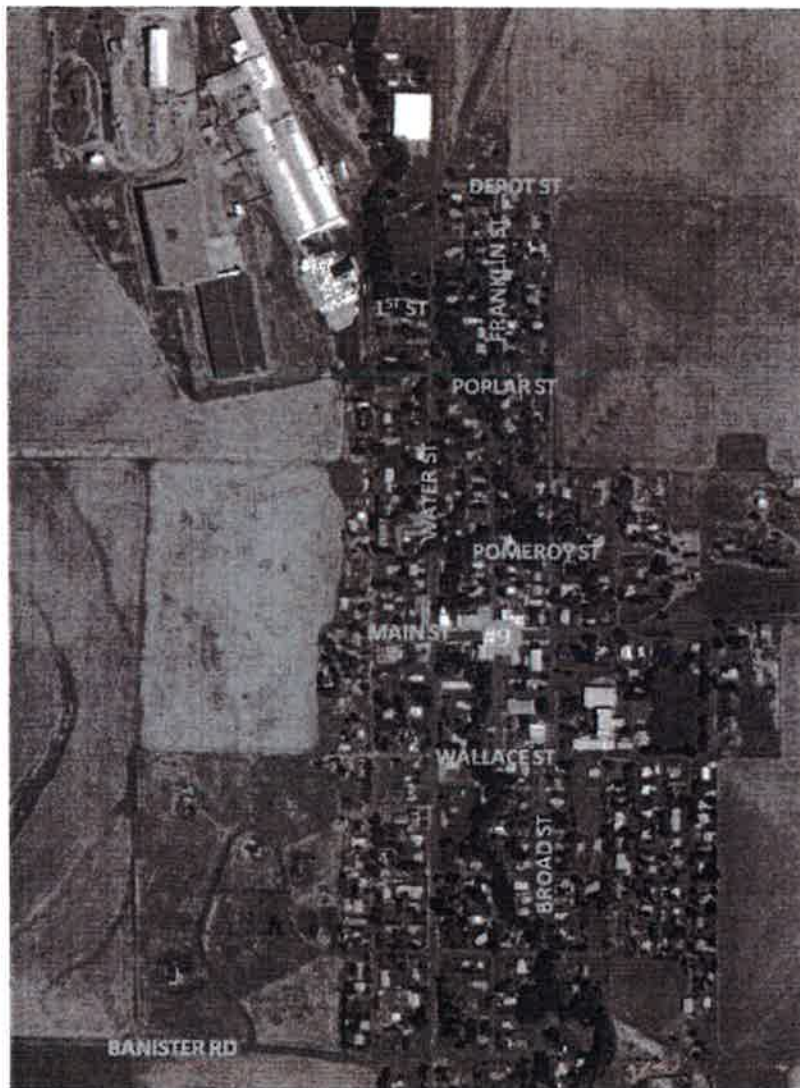
Project #: 8	Name:	Franklin Street Bridge Replacements
Description:	Replace the two load-restricted bridges on Franklin Street near Pomeroy Street and Poplar Street. A box culvert may be the most cost effective replacement.	
Purpose:	To improve emergency vehicle response times on Franklin Street. Both bridges are load restricted to six tons, making them impassable for modern fire trucks, thereby restricting responses times to the adjacent properties on Franklin Street in the event of an emergency.	
Potential Challenges:	No significant challenges beyond those typically encountered with bridge replacement projects are anticipated at this time.	
Modes Affected	Priority Tier	Cost Estimate
Pedestrian, Bicycle, Motor Vehicle	High	\$400,000 per bridge

Vicinity Map



Project #: 9	Name:	Main Street Bus Stop Enhancements
Description:	Work with CTUIR to install a shelter, bench, and schedule information at the KAYAK bus stop in Weston. Consider where the best location for the stop is as part of the project.	
Purpose:	These improvements will serve two functions: 1) to provide an inviting waiting location for people waiting to take the bus at the stop itself, instead of in adjacent buildings; and 2) to make transit service more visible and easier to use.	
Potential Challenges:	There is also interest in discussing whether the existing stop is in the best location and that would need to be determined before the shelter goes in.	
Modes Affected	Priority Tier	Cost Estimate
Transit	High	\$9,000

Vicinity Map



Project #: 10	Name:	Wallace Street Sidewalk
Description:	Build a sidewalk along the north side of Wallace Street from Franklin Street to the existing walkway across from Broad Street. This project was originally included in the Weston-Athena Safe Routes to School plan.	
Purpose:	To provide people, especially Weston Middle School students, a place to walk separated from motor vehicle traffic. Weston Middle School students are currently not allowed to walk on this section of Wallace Street due to its lack of sidewalks. This is a popular spot for parents to drop off/pick-up their children, so Wallace Street is busy during school hours.	
Potential Challenges:	Right-of-way may be required. Even if it is not required, the project will require building sidewalk through area currently being used by an adjacent residence.	
Modes Affected	Priority Tier	Cost Estimate
Pedestrian	High	\$32,000 (includes some ROW)

Vicinity Map



Project #: 11	Name:	Weston Middle School Bus Entry Sidewalk
Description:	Build sidewalk along the south side of High Street from Franklin Street to Broad Street. This project was originally included in the Weston-Athena Safe Routes to School plan.	
Purpose:	To provide Weston Middle School students a place to walk to school separated from motor vehicle traffic. This street is where buses enter to drop off/pick up children.	
Potential Challenges:	Right-of-way may be required. Even if it is not required, the project will require building sidewalk through area currently being used by adjacent uses. Will require coordination between the City and Athena-Weston School District.	
Modes Affected Pedestrian	Priority Tier High	Cost Estimate \$38,000 (includes some ROW)

Vicinity Map



Project #: 12	Name:	Weston Middle School Bus Exit Sidewalk
Description:	Build sidewalk along the east side of Broad Street from where it currently ends north of High Street to Main Street. This project was originally included in the Weston-Athena Safe Routes to School plan.	
Purpose:	To provide Weston Middle School students a place to walk to school separated from motor vehicle traffic. This street is where buses exit after dropping off/picking up children.	
Potential Challenges:	Right-of-way may be required. Even if it is not required, the project will require building sidewalk through area currently being used by an adjacent residence. Will require coordination between the City and Athena-Weston School District.	
Modes Affected Pedestrian	Priority Tier High	Cost Estimate \$27,000 (includes some ROW)

Vicinity Map



Project #: 13	Name:	Main Street to Weston Middle School Connector Path
Description:	Construct a sidewalk along Arman Street that connects Main Street to the existing path on the east side of Weston Middle School. This project was originally included in the Weston-Athena Safe Routes to School plan.	
Purpose:	To provide Weston Middle School students a place to walk to school separated from motor vehicle traffic. This path would provide an access to the sport fields/courts on the east side of the school.	
Potential Challenges:	Right-of-way may be required. Even if it is not required, the project will require building sidewalk through area currently being used by adjacent uses. Will require coordination between the City and Athena-Weston School District.	
Modes Affected	Priority Tier	Cost Estimate
Pedestrian	High	\$40,000 (includes some ROW)

Vicinity Map



Project #: 14	Name:	Wallace Street/Broad Street Intersection Improvements
Description:	Enhance the pedestrian crossing of Wallace Street at Broad Street by Weston Middle School. This would likely include a raised curb extension to improve the visibility of crossing children and slow down motor vehicle traffic.	
Purpose:	Residents and school children parents have noted that it can be difficult to see children walking out from behind the sport courts across from Broad Street and that this area gets busy with parents dropping off or picking up their children.	
Potential Challenges:	Will require coordination between the City and Athena-Weston School District.	
Modes Affected	Priority Tier	Cost Estimate
Pedestrian	High	\$5,000 (no ROW included)

Vicinity Map



Project #: 15	Name:	LED Lighting Conversion	
Description:	Convert the City's street lights to LED lights.		
Purpose:	The City could potentially realize significant cost savings by converting its street lights to LED lights, which use less energy and require less maintenance than the current system.		
Potential Challenges:	Further study is needed to determine the actual amount of cost savings that could be realized. This will require discussing with light manufacturers and the electrical utility.		
Modes Affected	Priority Tier	Cost Estimate	
All	Long-Term	TBD – Multiple options for types of lights and how projects is financed	
Vicinity Map (N/A – City Wide)			

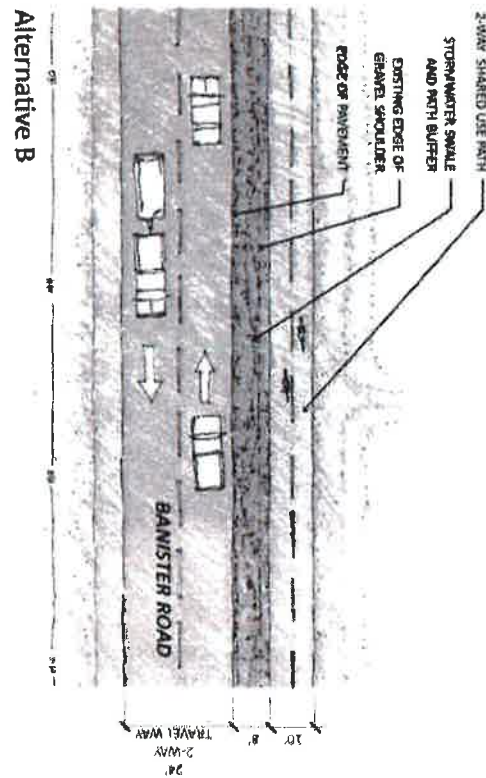
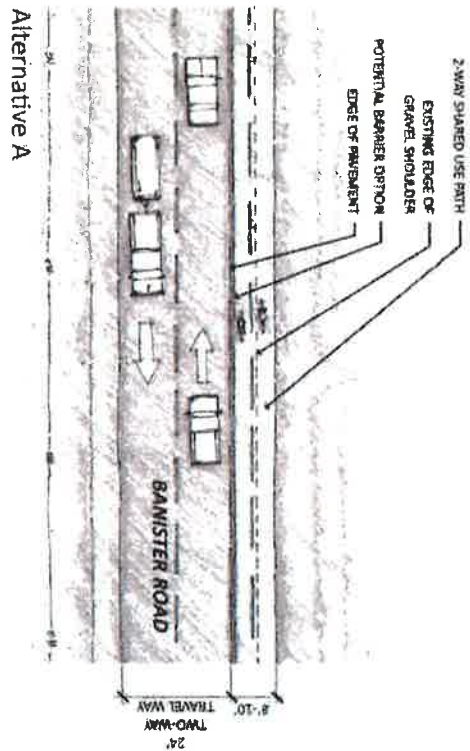
Project #: 16	Name:	Weston-Athena Multimodal Connection
Description:	Construct a shared-use path along Banister Road from approximately Mill Street to OR 11. Potential options include a 8-10 foot wide path adjacent to the road separated from motor vehicle traffic by a painted buffer, depressed rumble strips, or plastic delineator posts or a 10 foot wide path separated from the road by a storm water swale. A concept drawing of the two options is shown on the next page.	
Purpose:	To provide an option for people to walk and bike between Weston and Athena. Weston children attend elementary and high school in Athena, Athena children attend middle school in Weston, there is a community swimming pool in Athena that Weston children walk and bike to already, and there is a general desire within the community to provide a viable route for people who would like to walk or bike between the cities	
Potential Challenges:	It needs to be determined if the project can fit within existing right-of-way. Banister Road is a Umatilla County facility; therefore the County will need to either co-adopt this plan or include it in their own plan. Topography issues along the route may also need to be resolved at some point. To complete the connection, a crossing of OR 11 (see project #19) and a connection from OR 11 into Athena will be necessary.	

Modes Affected Pedestrian, Bicycle	Priority Tier N/A –Outside City’s UGB	
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Vicinity Map



Project #: 16 Name: Weston-Athena Multimodal Connection (cont.)



Low Barrier Options for Alternative A



BANISTER ROAD - MULTIMODAL CONNECTION ALTERNATIVES
Conceptual Plan Alternatives
Weston Transportation System Plan Update



APRIL 8, 2015



Project #: 17	Name:	OR 204/Water Street Realignment
Description:	Realign Water Street to intersect OR 204 at an approximately 90 degree angle. Eliminate the existing Water Street and Winn Road (extended) accesses onto OR 204. This project is outside Weston's UGB and would be implemented by ODOT. A concept drawing prepared by ODOT is shown on the next page. The intersection would likely also include right and left-turn lanes, though these are not shown in the concept.	
Purpose:	To reduce the potential for crashes along this section of OR 204 by reducing the number of access points and eliminating skew.	
Potential Challenges:	Will likely require obtaining right-of-way. The City has considered relocating the Public Works building to the location the realigned Water Street would pass through. An engineering study will be needed to determine if adequate sight distance can be provided at the realigned intersection.	

Modes Affected Motor Vehicle	Priority Tier N/A – Outside City's UGB	
--	--	--



Project #: 17	Name:	OR 204/Water Street Realignment (cont.)
---------------	-------	---



Image prepared by and included with permission from ODOT. Layout should be considered DRAFT and is for conceptual illustration purposes only.

Project #: 18	Name:	OR 11 Freight Signing
Description:	Add signing to OR 11 to direct freight traffic to use Key Road for accessing the food processing facilities.	
Purpose:	To ensure roads that are capable of handling and appropriate for freight traffic are used. A lack of local awareness results in some truck drivers accessing the food processors via Water Street from either OR 204 or Banister Road. This could be particularly problematic for trucks coming from Banister Road due to the weight restrictions on Water Street.	
Potential Challenges:	Federal law strictly regulates signage along highways, such as OR 11. This project is outside Weston's UGB and will need to be coordinated with ODOT.	
Modes Affected	Priority Tier	
Motor Vehicle – Freight	N/A – Outside City's UGB	
Vicinity Map (N/A - TBD)		

Project #: 19	Name:	OR 11 Bicycle/Pedestrian Crossing
Description:	Provide a crossing for people walking and biking across OR 11 between Athena and Weston. An engineering study would be required to determine the exact location and type of crossing. Given the high speed and rural nature of the highway, it is likely that the crossing would need to include a traffic signal or be grade-separated.	
Purpose:	To provide an option for people to walk and bike between Weston and Athena. Weston children attend elementary and high school in Athena, Athena children attend middle school in Weston, there is a community swimming pool in Athena that Weston children walk and bike to already, and there is a general desire within the community to provide a viable route for people who would like to walk or bike between the cities.	
Potential Challenges:	Preliminary analysis completed for this plan indicates that the crossing may not be warranted until the Weston-Athena multimodal connection is built. OR 11 is a high speed roadway and there is a vertical crest at this location, so issues of driver expectancy and sight distance will need to be addressed by the design of the project. This project is outside Weston's UGB and will need to be completed by ODOT.	
Modes Affected	Priority Tier	
Pedestrian	N/A – Outside City's UGB	

Vicinity Map



UMATILLA COUNTY PLANNING COMMISSION

December 15, 2016

NEW HEARING:

TEXT AMENDMENT, #T-16-071, co-adopt City of Pilot Rock Transportation System Plan.

The city of Pilot Rock requests the county co-adopt their existing Transportation System Plan (TSP). The TSP will apply to development within the Pilot Rock Urban Growth Area. The criteria of approval are found in Umatilla County Development Code 152.750-152.754 and the Joint Management Agreement between the City and County.

Umatilla County

Department of Land Use Planning



DIRECTOR
TAMRA MABBOTT

LAND USE
PLANNING,
ZONING AND
PERMITTING

CODE
ENFORCEMENT

SOLID WASTE
COMMITTEE

SMOKE
MANAGEMENT

GIS AND
MAPPING

RURAL
ADDRESSING

LIAISON, NATURAL
RESOURCES &
ENVIRONMENT

MEMO

TO: Umatilla County Planning Commissioners
FROM: Brandon Seitz, Assistant Planner *BS*
DATE: December 5, 2016

RE: 2016, Planning Commission Hearing
City of Pilot Rock TSP Co-adopt
Text Map Amendment, #T-16-071

Umatilla County is in the process of reviewing the County Transportation System Plan (TSP). As part of the review it was determined that the County has never formally adopted the City of Pilot Rock's TSP. Co-adoption provides an opportunity for both agencies to work together to implement the plan in all of the relevant planning documents.

Pilot Rock's TSP was prepared as part of an overall effort in 2001 to prepare TSPs for the County and eight smaller municipalities. The document establishes the City's road classification plan and standards. It also establishes a multimodal system plan. The document applies to all the transportation systems and plans within City Limits and the Urban Growth Area. Also established is a 20-year list of the City's Capital Improvement Program.

Conclusion

The City requests the County co-adopt their existing TSP's. The TSP will apply to development within Pilot Rock's Urban Growth Area.

Attachments

The following attachments have been included for review by the Planning Commission:

- Pilot Rock TSP (2001)

City of Pilot Rock
Transportation System Plan
Final Report

June 2001

Original Prepared by:
David Evans and Associates, Inc.

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CHAPTER 1: INTRODUCTION

The City of Pilot Rock Transportation System Plan (TSP) guides the management of existing transportation facilities and the design and implementation of future facilities for the next 20 years. This Transportation System Plan constitutes the transportation element of the City's Comprehensive Plan and satisfies the requirements of the Oregon Transportation Planning Rule established by the Department of Land Conservation and Development. It identifies and prioritizes transportation projects for inclusion in the Oregon Department of Transportation's (ODOT's) Statewide Transportation Improvement Program (STIP).

PLANNING AREA

The City of Pilot Rock's Transportation System Plan planning area covers the entire area within the Pilot Rock Urban Growth Boundary (UGB). The planning area is shown on Figure 1-1. Roadways included in the Transportation System Plan fall under three jurisdictions: the city of Pilot Rock, Umatilla County, and the state of Oregon.

Pilot Rock is located in the central portion of Umatilla County in the northeastern corner of Oregon. The City has a population of roughly 1,600 people. It is laid out in a grid pattern, which is broken up by three creeks and US 395 which runs through the middle of the City. The City's commercial development is concentrated along US 395 in the downtown. The City's biggest employers are lumber companies and there are numerous farms within the UGB. Pilot Rock has its own school district and is conveniently located approximately 15 miles south of Pendleton, which is the largest city in the county.

The US 395 runs northeast-southeast through Pilot Rock acting as both a through route and as the primary commercial street downtown. The highway connects the cities to Pendleton, Stanfield, Hermiston, Umatilla and Washington State to the north; and Ukiah, John Day, and California to the south. Five paved county roads also provide access to the City; (1) County Road No 1375 (East Birch Creek Road) which runs south from US 395, (2) County Road No. 1386 (Circle Road) which runs north from the City, (3) County Road No. 1150 (Stewart Creek Road) which runs east along the city limits, (4) County Road No. 1391 (known locally as Delwood Street) in the southwest, and (5) County Road No. 1151 (known locally as Elm Street) in the east. Additionally, County Road No. 1388 (Stock Drive Road), a dirt road, provides access to Pilot Rock from the west. These roadways allow easy access to the regional production, distribution, and marketing centers in the area and function as arterials and collectors throughout the City. The Oregon Department of Transportation (ODOT) has jurisdiction over US 395, the county has jurisdiction over the county roads, and the City has jurisdiction over the rest of the existing roadways.

The Union Pacific Railroad right-of-way runs northeast to southwest into the UGB and city limits stopping just north of downtown.

Pilot Rock is a major wood processing center for the county. The City's three largest employers in May 1986, were Louisiana Pacific, U.S. Gypsum (USG Industries), and Pine-Lam, Inc. The labor force is subject to seasonal unemployment due to the cyclical nature of natural resource-based industries.

PLANNING PROCESS

The Pilot Rock Transportation System Plan was prepared as part of an overall effort in Umatilla County to prepare TSPs for Umatilla County and eight small municipalities: the cities of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston. Each plan was developed through a series of technical analyses

combined with systematic input and review by the county, the cities, the management team, the Transportation Advisory Committee (TAC), ODOT, and the public. The TAC consisted of staff, elected and appointed officials, residents, and business people from Umatilla County, and the eight cities. Key elements of the process include:

- Involving the Pilot Rock community (Chapter 1)
- Defining goals and objectives (Chapter 2)
- Reviewing existing plans and transportation conditions (Chapters 3, 4, and Appendices A and B)
- Developing population, employment, and travel forecasts (Chapter 5, and Appendix C)
- Developing and evaluating potential transportation system improvements (Chapter 6)
- Developing the Transportation System Plan and a capital improvement plan (Chapter 7)
- Evaluate funding options and develop financial plan(Chapter 8)
- Developing recommended policies and ordinances (Chapter 9)

Community Involvement

Community involvement is an integral component in the development of a TSP for the city of Pilot Rock, Umatilla County and each of the other seven cities covered under the Umatilla County TSP process. Since the communities faced many similar transportation and land use issues, a public involvement program involving all the jurisdictions was used. This process allowed for individual attention when needed, and general problem solving for all jurisdictions as appropriate. Several different techniques were utilized to involve each local jurisdiction, ODOT, and the general public.

A combined management team and transportation advisory committee (TAC) provided guidance on technical issues and direction regarding policy issues to the consultant team. Staff members from each local jurisdiction, from ODOT, and a local resident from each community served on the TAC. This group met several times during the course of the project.

The second part of the community involvement effort consisted of community meetings within Umatilla County. The first public meeting was held in June 1998. The Pilot Rock general public was invited to learn about the TSP planning process and provide input on transportation issues and concerns. A second public meeting was held in July 1998. The third and final public meeting was held in September 1998. The public was notified of the public meetings through public announcements in the local newspapers and on the local radio station.



Goals and Objectives

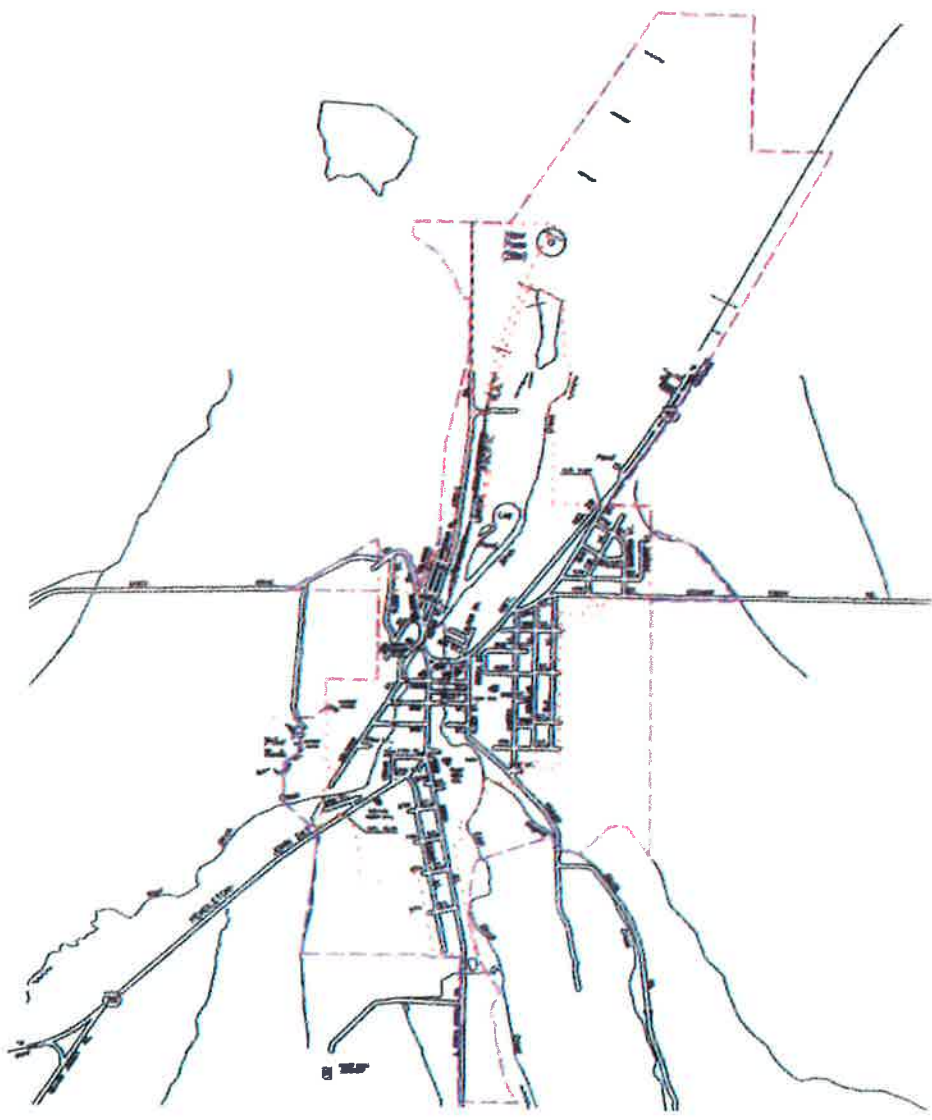
Based on input from the community, the county, and the management team/TAC, a set of goals and objectives were defined for the TSP. These goals and objectives were used to make decisions about various potential improvement projects. They are described in Chapter 2.

Review and Inventory of Existing Plans, Policies, and Public Facilities

To begin the planning process, all applicable Pilot Rock and Umatilla County transportation and land use plans and policies were reviewed and an inventory of public facilities was conducted. The purpose of these

LEGEND:

-  URBAN GROWTH BOUNDARY
-  CITY LIMITS




**DAVID EVANS
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2828 S.W. CORBIT AVENUE
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FIGURE 1-1
Planning Area
-Pilot Rock

City of Pilot Rock TSP

UMCO0001/PILO1-L.DGN/TNT/07-03-98

efforts was to understand the history of transportation planning in the Pilot Rock area, including the street system improvements planned and implemented in the past, and how the City is currently managing its ongoing development. Existing plans and policies are described in Appendix A of this report.

The inventory of existing facilities catalogs the current transportation system. The results of the inventory are described in Chapter 3, while Chapter 4 describes how the system operates. Appendix B summarizes the inventory of the existing arterial and collector street system.

Future Transportation System Demands

The Transportation Planning Rule requires the Transportation System Plan to address a 20-year forecasting period. Future traffic volumes for the existing and committed transportation systems were projected using ODOT's *Level 1 – Trending Analysis* methodology. The overall travel demand forecasting process is described in Chapter 5.

Transportation System Potential Improvements

Once the travel forecasts were developed, it was possible to evaluate a series of potential transportation system improvements. The evaluation of potential transportation improvements was based on a qualitative review of safety, environmental, socioeconomic and land use impacts, as well as estimated cost. These improvements were developed with the help of the local working group, and they attempt to address the concerns specified in the goals and objectives (Chapter 2). After evaluating the results of the potential improvements analysis, a series of transportation system improvements were selected. These recommended improvements are described in Chapter 6.

Transportation System Plan

The Transportation System Plan addresses each mode of transportation and provides an overall implementation program. The street system plan was developed from the forecasting and potential improvement evaluations described above. The bicycle and pedestrian plans were developed based on current usage, land use patterns, and the requirements set forth by the Transportation Planning Rule. The public transportation, air, water, rail, and pipeline plans were developed based on discussions with the owners and operators of those facilities. Chapter 7 details the plan elements for each mode.

Funding Options

The city of Pilot Rock will need to work with Umatilla County and ODOT to finance new transportation projects over the 20-year planning period. An overview of funding and financing options that might be available to the community are described in Chapter 8.

Recommended Policies and Ordinances

Suggested Comprehensive Plan policies and implementing zoning and subdivision ordinances are included in Chapter 9. These policies and ordinances are intended to support the TSP and satisfy the requirements of the Transportation Planning Rule (TPR).

RELATED DOCUMENTS

The city of Pilot Rock TSP addresses the regional and rural transportation needs in the City. There are several other documents that address specific transportation elements or areas in Umatilla County that may directly or indirectly impact transportation elements in and around Pilot Rock.

Other Transportation System Plans Prepared Concurrently with the Pilot Rock TSP

In addition to the Pilot Rock TSP, seven small city TSPs were prepared in conjunction with the Umatilla County TSP project. These documents include:

- City of Adams TSP
- City of Athena TSP
- City of Echo TSP
- City of Helix TSP
- City of Stanfield TSP
- City of Ukiah TSP
- City of Weston TSP

Pilot Rock Comprehensive Plan

The Pilot Rock Comprehensive Plan was adopted in 1978, and amended in 1986. The plan provides goals and policies for guiding the future growth and development of the City. Two of the City's 13 goals strongly impact the development of the Transportation System Plan – Goal K: Transportation and Goal J: Public Facilities and Services. The policies enacted by the City in support of these goals are summarized in Appendix A.

Goal K: Transportation

To provide and encourage a safe, convenient and economic transportation system.

Applicable Policies

1. To repave city streets and provide curbs and sidewalks as resources are available.
2. To encourage development and use of alternate means of transportation to the private automobile.
3. To work with ODOT to minimize conflicts between through and local traffic on US 395, to reduce traffic hazards and expedite the flow of traffic by limiting access to and from the highway with the Urban Growth Area, and planning for adequate access to property adjacent to the highway.

4. To development of good transportation linkages (vehicular, pedestrian, bicycle, etc.) between residential areas and major activity centers.
5. To encourage the continuing availability of rail transportation linkages to mainline services, for the industrial area.
6. To work with Umatilla County to develop joint policies concerning local roads and streets within the Urban Growth Boundary.
7. To adopt the recommendation in the Oregon Department of Transportation Six-Year Highway Improvement Plan that occurs within the Urban Growth Boundary.

Goal J: 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 development.

Applicable Policies

1. To develop, maintain, update, and expand police and fire services, streets and sidewalks, water and sewer systems, and storm drains as necessary to provide adequate facilities and services to the community.

Pilot Rock Technical Report

The Pilot Rock Technical Report offers background information for the City regarding the natural environment, the socioeconomic environment (including population indicators) and establishment of the Urban Growth Boundary (UGB). The report contains road classifications for roadways through the City. The classifications are listed in the Appendix: Table X, 1997 Major Street Inventory. This report was last revised in 1986. Therefore, much of the data is now outdated. Key findings regarding transportation facilities are summarized in Appendix A of this TSP.

Pilot Rock Subdivision Ordinance

The city of Pilot Rock Subdivision Ordinance was adopted in 1986. It regulates all subdivisions and partitions of lands, within the city limits. (Umatilla County is responsible for regulating subdivision and partitions outside of the city limits but within the Urban Growth Boundary. However, the City reviews and comments on all plans, plats, or maps for those areas). It also regulates the construction of new or undeveloped streets within the City and Urban Growth Boundary as well as general requirements and design standards for streets including the provision of sidewalks and bicycle facilities to support safe and efficient pedestrian and bicycle mode use. The ordinance explains the Pilot Rock street classifications and street standards and are summarized in Appendix A of this TSP.

Pilot Rock Zoning Ordinance

The Pilot Rock Zoning Ordinance was adopted in 1986. The purported purpose of zoning ordinance is as follows:

To promote the public health, safety, and welfare; to encourage the most appropriate use of property within the City; to stabilize and protect the value of property; to provide adequate light and air; to prevent overcrowding; to lessen traffic congestion; to facilitate adequate and economical provision for public improvements, all to implement the Comprehensive Plan of the city of Pilot Rock; to provide a method of administration and to provide penalties for violation of the provision herein.

The Ordinance contains 12 sections. The only section that applies directly to transportation is the section on off-street parking and loading.

Umatilla County Comprehensive Plan

The Umatilla County Comprehensive Plan was written in 1983 to meet the statewide requirements for planning. It was last amended in 1987. The plan is broken into three sections: the Introduction; Plan Elements – Findings, Recommended Policies; and the Plan Map. The Plan Elements section is broken into sections dealing with the fourteen goals. This includes a Transportation Element with findings and recommended policies.

Umatilla County Development Code

- The Umatilla County Development Ordinance was adopted in 1983, and last amended in November of 1991. In 1997 this ordinance was recodified and retitled as Chapter 1528 Development Code. The portions of the code most relevant to the Transportation System Plan include sections on off-street parking requirements, driveways, and road standards. Amendments to the development code include road standards for county roads.

Corridor Strategies

Corridor strategies have been prepared for both US 395 and OR 11.

The US 395 corridor is covered in two studies: *the US Highway 395 North (Umatilla-Stanfield) Draft Corridor Strategy* and the *US Highway 395 South (Pendleton-California Border) Corridor Strategy*. The Corridor Strategies were developed to identify projects for the Oregon State Transportation Improvement Program. Generally, the Corridor Strategies translate the policies of the Oregon Transportation Plan (OTP) into specific actions; describe the functions of each transportation mode, consider trade-offs, and show how they will be managed; identify and prioritize improvements for all modes of travel; indicate where improvements should be made; resolve any conflicts with local land use ordinances and plans; and establish guidelines for how transportation plans will be implemented.

The US 395 Corridor Strategies contain a corridor overview, which includes population and employment forecasts, highway data such as traffic volumes and pavement conditions and descriptions of other modes of travel (air, rail, bicycle, etc.). The overall corridor strategy is to, “accommodate efficient movement of through travel, while maintaining environmental integrity, enhancing travel safety and supporting economic development.” The reports set forth objectives that are intended to embody this overall strategy for the corridor, and to set direction and provide guidance for corridor-wide transportation plans and improvements.

Other State Plans

In addition to the ODOT corridor strategy, coordination with the following state plans is required:

- Oregon Transportation Plan (1992)
- Oregon Highway Plan (1999)
- Oregon Bicycle and Pedestrian Plan (1995)
- Oregon Public Transportation Plan (1996)
- Oregon Rail Freight Plan (1994)
- Oregon Rail Passenger Policy and Plan (1992)
- Oregon Traffic Safety Action Plan (1995)
- Oregon Aviation System Plan (in development).

CHAPTER 2: GOALS AND OBJECTIVES

The purpose of the TSP is to provide a guide for the city of Pilot Rock to meet its transportation goals and objectives. The following goals and objectives were developed from information contained in the City's Comprehensive Plan and reflect public concerns as expressed during public meetings. An overall goal was drawn from the plan, along with more specific goals and objectives. Throughout the planning process, each element of the plan was evaluated against these parameters.

OVERALL TRANSPORTATION GOAL

To provide and encourage a safe, convenient, and economic transportation system.

Goal 1

Preserve the function, capacity, level of service, and safety of the nearby highways.

Objectives

- A. Develop access management standards.
- B. Develop alternative, parallel routes where practical.
- C. Promote alternative modes of transportation to the private automobile.
- D. Promote transportation demand management programs.
- E. Promote transportation system management.
- F. Develop procedures to minimize impacts and protect transportation facilities, corridors, or sites during the development review process.

Goal 2

Ensure that the road system within the City is adequate to meet public needs, including those of the transportation disadvantaged.

Objectives

- A. Meet identified maintenance level of service standards on the county and state highway systems.
- B. Repave city streets and provide curbs and sidewalks as resources are available.
- C. Develop and adhere to a five-year road program for maintenance and improvement of the existing city road system.
- D. Review and revise, if necessary, street cross section standards for local, collector, and arterial streets to enhance safety and mobility.

- E. Develop access management strategies with ODOT for US 395 through the Urban Growth Boundary to ensure adequate access to property adjacent to the highway while limiting access to and from the highway.
- F. Develop access management strategies for anywhere else needed.
- G. Evaluate the need for traffic control devices.
- H. Evaluate the safety of the street system and develop plans to mitigate any safety hazards.
- I. Encourage the provision of transportation alternatives for elderly and handicapped citizens.

Goal 3

Improve coordination among Pilot Rock and nearby cities, the Oregon Department of Transportation (ODOT), the US Forest Service (USFS), the Federal Highway Administration (FHWA), and the county.

Objectives

- A. Work with Umatilla County to coordinate roadway maintenance and improvements and to develop joint policies concerning local roads and streets within the Urban Growth Boundary.
- B. Work with ODOT to minimize conflicts between through and local traffic and reduce traffic hazards on US 395.
- C. Cooperate with ODOT in the implementation of the Statewide Transportation Improvement Program (STIP).
- D. Work with the county in establishing right-of-way needed for new roads identified in the Transportation System Plans.
- E. Take advantage of federal and state highway funding programs.
- F. Consider pooling resources with other cities and the county to provide services that benefit areas both in and outside the City.

Goal 4

Increase the use of alternative modes of transportation (walking, bicycling, and public transportation) through improved access, safety, and service.

Objectives

- A. Cooperate with other cities and the county to create inter-city transit service.
- B. Provide sidewalks or shoulders and safe crossings on collectors and arterials.
- C. Explore opportunities for bicycle facilities and coordinate with the county bicycle planning efforts.
- D. Seek Transportation and Growth Management (TGM) and other funding for projects evaluating and improving the environment for alternative modes of transportation.

Goal 5

Encourage the continued rail transportation linkage to mainline services.

Objective

A. Maintain operational status of the Union Pacific rail line.

CHAPTER 3: TRANSPORTATION SYSTEM INVENTORY

As part of the planning process, David Evans and Associates, Inc., conducted an inventory of the existing transportation system in Pilot Rock. This inventory covered the street system as well as the pedestrian, bikeway, public transportation, rail, air, water, and pipeline systems.

STREET SYSTEM

The most common understanding of transportation is of roadways carrying cars and trucks. Most transportation dollars are devoted to building, maintaining, or planning roads to carry automobiles and trucks. The mobility provided by the personal automobile has resulted in a great reliance on this form of transportation. Likewise, the ability of trucks to carry freight to nearly any destination has greatly increased their use.

Encouraging the use of cars and trucks must be balanced against costs, livability factors, the ability to accommodate other modes of transportation, and negative impacts on adjacent land uses; however, the basis of transportation in nearly all American cities is the roadway system. This trend is clearly seen in the existing Pilot Rock transportation system, which consists almost entirely of roadway facilities for cars and trucks. Because of the rural nature of the area, the street system will most likely continue to be the basis of the transportation system for at least the 20-year planning period; therefore, the emphasis of this plan is on improving the existing street system for all users.

The existing street system inventory was conducted for all highways, arterial roadways, and collector roadways within Pilot Rock, as well as those in Umatilla County that are included in the TSP planning area. Inventory elements include:

- Street classification and jurisdiction
- Street width
- Number of travel lanes
- Presence of on-street parking, sidewalks, or bikeways
- Speed limits
- General pavement conditions

Figure 3-1 shows the roadway functional classification and jurisdiction. Appendix B lists the complete inventory.

Street Classification

The Pilot Rock Technical Report, the background information for the City's Comprehensive Plan, provides functional classifications for the streets within the City. The Technical Report is not adopted as part of the Comprehensive Plan, but remains the supporting document that is subject to revisions as new technical data become available. When new data indicate that the City's plan should be revised, amendments to the technical report shall be made.

The Pilot Rock Technical Report designates streets within the City as arterials, major collectors or minor collectors. All streets not classified are assumed to be local streets. No definitions are provided for the street classifications. There is some inconsistency with the Pilot Rock Zoning Ordinance which classifies (but does not designate) streets as arterials, collectors, local streets, cul-de-sacs, alleys, and marginal access streets. The zoning ordinance also provides definitions for these roadway classifications, as well as road

design standards. DEA will recommend a consistent street classification system, including definitions and roadway design standards, as part of the development of this TSP.

Typically, a city the size of Pilot Rock would classify streets as either arterials, collectors, or local streets. Definitions for these classifications are provided below. Based on conditions observed during the field reconnaissance (traffic volumes, street widths, etc.), DEA verified the classification of the streets classified in the Pilot Rock Technical Report, as described below. The roadway classifications shown in Figure 3-1 reflect the classifications as designated in the Pilot Rock Technical Report. The inventory includes city, county, and state roadways.

Arterials

Arterials form the primary roadway network within and through a region. They provide a continuous road system that distributes traffic between cities, neighborhoods, and districts. Generally, arterials are high capacity roadways that carry high traffic volumes entering or leaving the City.

In Pilot Rock, there is one street which functions as an arterial: US 395 (also called Pendleton–John Day Highway). This roadway serves as the focus for most of the commercial development in the City.

Collectors

Collectors serve traffic within the commercial, industrial, and residential neighborhood areas. They connect local neighborhoods or districts to the arterial network. Collectors help form part of the grid system; however, they are not intended to function as alternate routes to the arterial system.

The Pilot Rock Technical Report classified six streets as major collectors: NW Cedar Street, Birch Street, Main Street (east of US 395), Alder Street (between Main Street and US 395), and 4th Street/Stewart Creek Road,.

Seven streets were classified as minor collectors: Delwood Street (south of 2nd Street), 2nd Street (west of US 395), Alder Street, SE 5th Street, Cherry Street, Elm Street, and Delwood Place. Field reconnaissance by DEA indicated that Delwood Place is currently a dirt road and does not function as a collector, therefore it is not shown as a collector on Figure 3-1.

Local Streets

Local streets provide access to all parcels of land and serve travel over relatively short distances. They are designed to carry the very low traffic volumes associated with the local uses which abut them. Through traffic movements are discouraged on local streets.

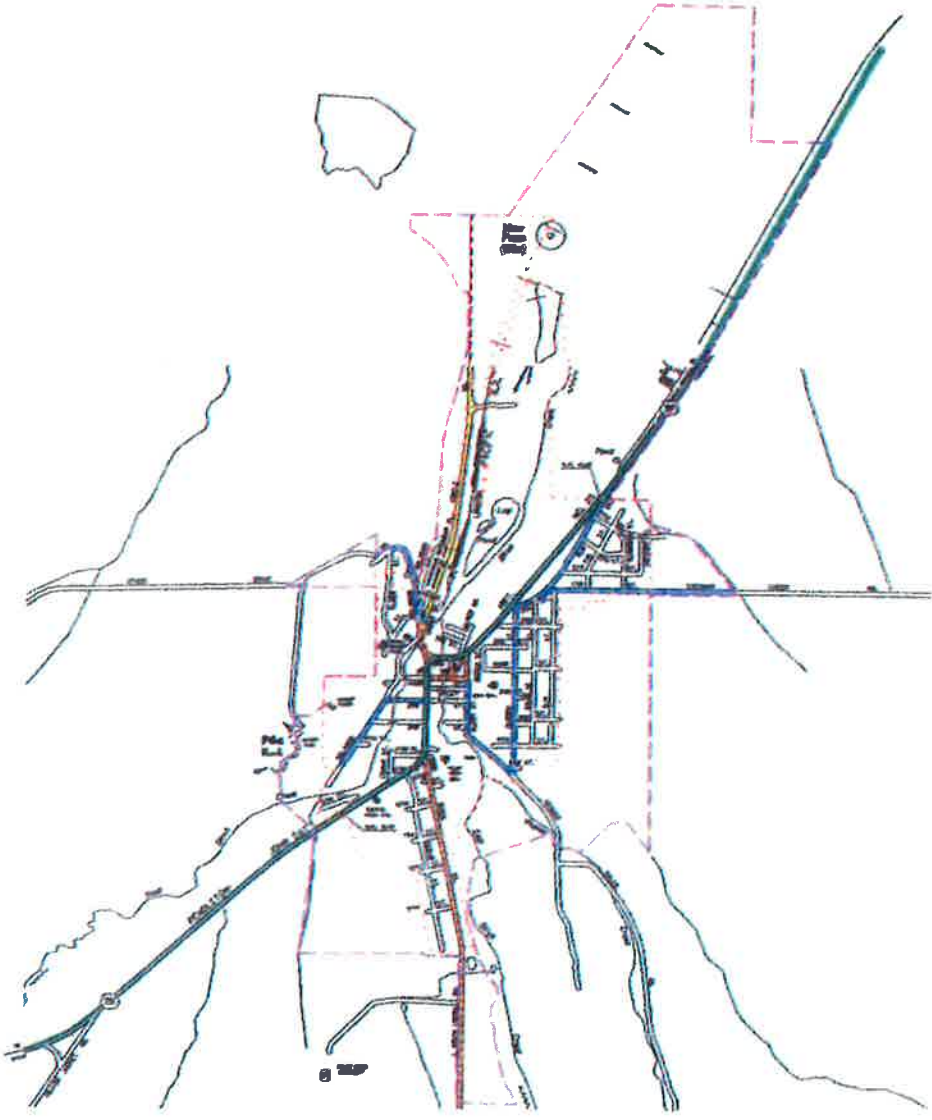
The local streets in Pilot Rock are comprised of all streets not classified as either arterials or collectors.

Street Layout

The development of the Pilot Rock street system is constricted by natural hazards. Pilot Rock is situated at the confluence of three creeks. East and West Birch Creek come together just north of the downtown area and form Birch Creek. Also, Wegner Creek flows into East Birch Creek near the south city limits. In addition, the

LEGEND:

- | | | |
|---|--|--|
|  ARTERIAL |  INDUSTRIAL/
COMMERCIAL STREET |  URBAN GROWTH BOUNDARY |
|  MAJOR COLLECTOR |  LOCAL STREET |  CITY LIMITS |
|  MINOR COLLECTOR | | |




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NORTH
 (NOT TO SCALE)

FIGURE 3-1
**Roadway Functional
 Classification
 -Pilot Rock**

City of Pilot Rock TSP

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basalt rock formation on the west side of the City has steep slopes which constrain development. For these reasons, the City did not develop in a regular grid pattern, although there are small sections of the City which are laid out in a grid. The City also contains many discontinuous, or dead-end, streets due to a lack of vehicular bridges over the creeks; however, there are many useful pedestrian bridges over the creeks, which connect the dead-end streets. US 395 is the main arterial through the City and runs north-south, connecting Pilot Rock to Ukiah to the south, and to Pendleton to the north.

State Highways

Discussion of the Pilot Rock street system must include the state highways that traverse the planning area. Although Pilot Rock has no direct control over the state highways, adjacent development and local traffic patterns are heavily influenced by the highways. Pilot Rock is served by one state highway, US 395. This highway serves as the major route through the City with commercial and industrial development focused along its corridor.

The 1999 Oregon Highway Plan (OHP) classifies the state highway system into five categories: Interstate, Statewide, Regional, District, and Local Interest. ODOT has established primary and secondary functions for each type of highway and objectives for managing the operations for each one.

US 395

US 395 between Pendleton and John Day running through the city of Pilot Rock is classified as a State Highway. According to the 1999 OHP, the primary function of a State Highway is to “provide connections and links to larger urban areas, ports, and major recreation areas that are not directly served by interstate highways.” The management objective for statewide highways is to provide for safe and efficient high-speed, continuous-flow operation in rural areas and high- to moderate-speed operations with limited interruptions of flow in urban and urbanizing areas. This means that design factors such as controlling access and providing passing lanes are of primary importance.

The stretch of US 395 between Pendleton and John Day is also known as the *Pendleton – John Day Highway* and is a State Highway. Beginning in Pendleton at the I-84 junction and extending south through Pilot Rock to John Day, it ends at the California State border. The rural stretch of highway is primarily two lanes with a speed limit of 55 mph, except within the Pilot Rock city limits where the highway is two to four lanes and traffic is subject to lower speeds varying between 25 and 45 mph with 20 mph school zones. US 395 traverses Pilot Rock from north to south and serves as the major route through the City with commercial and industrial development focused along its corridor.

In 1997, an ODOT study team and Corridor Management Team developed the US 395 South (Pendleton–California Border) Draft Corridor Strategy, an overall corridor strategy and objectives for managing, operating, and improving the transportation corridor between Pendleton and California over the next 20 years. The Corridor Strategy was developed to identify projects for the Oregon STIP. Development of the US 395 South Corridor Strategy is the first step in the corridor planning process. Corridor planning is intended to implement the goals and policies set for the by the 1992 Oregon Transportation Plan (OTP), the 1999 Highway Plan, and the recent modal plans for rail, freight, bike/pedestrian, aviation, and public transportation plus the safety action plan.

Generally, the Corridor Strategy translates the policies of the OTP into specific actions; describes the functions of each transportation mode, considers trade-offs, and shows how they will be managed; identifies and prioritizes improvements for all modes of travel; indicates where improvements should be made;

resolves any conflicts with local land use ordinances and plans; and establishes guidelines for how transportation plans will be implemented.

The US 395 South Corridor Strategy contains a corridor overview, which includes population and employment forecasts, highway data such as traffic volumes and pavement conditions and descriptions of other modes of travel (air, rail, bicycle, etc.). The overall corridor strategy is to accommodate efficient movement of through travel, while maintaining environmental integrity, enhancing travel safety and supporting economic development. The report sets forth objectives that are intended to embody this overall strategy for the corridor, and sets direction and provides guidance for corridor-wide transportation plans and improvements.

The US 395 South Corridor Strategy will be followed-up by the US 395 South Corridor Plan which will build upon objectives developed in the Strategy to identify, refine, and facilitate the acceptance of specific decisions related to corridor transportation management, capital improvements and service improvements. The Corridor Plan will identify and discuss the decisions considered to meet each objective, technical analysis of alternatives, and recommendations for action.

GENERAL PAVEMENT CONDITIONS

City Streets

The ODOT Pavements Unit published a 1994 report entitled, Pavement Rating Workshop, Non-National Highway System. This report thoroughly defines the characteristics that pavements must display to be categorized as Very Good and so on. The report also provides color photographs of roadways that display these characteristics, which aids in field investigation and rating of pavement condition. These established guidelines were employed by DEA in conducting a subjective evaluation of pavement condition for all collectors within the city of Pilot Rock.

An inventory of the City's collectors, conducted by DEA in November 1997, indicated that pavement on Birch Street, Cedar Street, Stewart Creek Road/4th Street and Elm Street is in fair condition, where pavement on Alder Street and Cherry Street is in poor condition.

State Highways

The Oregon Department of Transportation's (ODOT's) Pavement Unit surveys the state highway system on an annual basis. Observed severity levels of certain distress types are used to determine a pavement condition rating score. These scores are used to stratify pavement segments into five condition categories: (1) Very Good, (2) Good, (3) Fair, (4) Poor, and (5) Very Poor. The *Umatilla County Transportation System Plan* briefly defines these condition categories.

The section of US 395 extending through Pilot Rock was repaved in 2000 and is in very good condition.

BRIDGES

The Oregon Department of Transportation maintains an up to date inventory and appraisal of Oregon bridges. Part of this inventory involves the evaluation of three mutually exclusive elements of bridges. One element identifies which bridges are structurally deficient. This is determined based on the condition rating

for the deck, superstructure, substructure, or culvert and retaining walls. It may also be based on the appraisal rating of the structural condition or waterway adequacy. Another element identifies which bridges are functionally obsolete. This element is determined based on the appraisal rating for the deck geometry, under-clearances, approach roadway alignment, structural condition, or waterway adequacy. The third element summarizes the sufficiency ratings for all bridges. The sufficiency rating is a complex formula which takes into account four separate factors to obtain a numeric value rating the ability of a bridge to service demand. The scale ranges from 0 to 100 with higher ratings indicating optimal conditions and lower ratings indicating insufficiency. Bridges with ratings under 55 may be nearing a structurally deficient condition.

There are a total of five bridges within the city of Pilot Rock; three are city-owned and maintained, one is county owned and maintained, with the remaining bridge along US 395 under state jurisdiction. These bridges are all structurally sound.

PEDESTRIAN SYSTEM

The most basic transportation option is walking. Walking is the most popular form of exercise in the United States and can be performed by people of all ages and all income levels. However, it is not often considered as a means of travel. Because pedestrian facilities are generally an afterthought, they are not planned as an essential component of the transportation system.

The relatively small size of Pilot Rock indicates that walking could be employed regularly, weather permitting, to reach a variety of destinations. Encouraging pedestrian activities may not only decrease the use of the personal automobile but may also provide benefits for retail businesses. Where people find it safe, convenient, and pleasant to walk, they may linger and take notice of shops overlooked before. They may also feel inclined to return to renew the pleasant experience time and again.

The sidewalk system in the core of Pilot Rock is relatively complete. Sidewalks exist on the east and west side of US 395 between 4th Place and Main Street. Sidewalk exists along the west side of the highway, between 4th Street and Main Street. Main Street has sidewalks on both sides between the pedestrian bridge West Birch Creek and Alder Street. Sidewalks exist on the west side of Alder Street from Main Street to just south of 5th Street. Short sections of sidewalk exist on 2nd Street and 3rd Street, west of US 395, but most are in poor condition. Curb cuts for wheelchair access are largely lacking even where sidewalks exist. There are some locations where there are built-up curb ramps; however, they are too steep to meet Americans with Disabilities Act (ADA) requirements. Crosswalks exist at the intersections of US 395 and 3rd Street, US 395 and Main Street and US 395 and Alder Drive. The complete pedestrian system inventory is shown in Figure 3-2.

BIKEWAY SYSTEM

Like pedestrians, bicyclists are often overlooked when considering transportation facilities. Bicycles are not often considered as a serious mode of transportation. However, cycling is a very efficient mode of travel. Bicycles take up little space on the road or parked, do not contribute to air or noise pollution, and offer relatively higher speeds than walking. Because of the small size of Pilot Rock, a cyclist can travel to any destination in town within a matter of minutes.

Bicycling should be encouraged for short trips in order to reduce some of the negative aspects of urban growth and automobile use. Noise, air pollution, and traffic congestion could be mitigated if more short trips were taken by bicycle or on foot. Typically, a short trip that would be taken by bicycle is around two miles; on foot, the distance commonly walked is around one-half mile.

Pilot Rock currently has sanctioned bikeways in the northern part of town on two streets, Cedar Street and US 395. The bike lane on Cedar Street is 6 feet wide and roughly a mile long, running north on the west side of the street from the intersection with Delwood Street to the last mill near the city limits. The other bike lane is also 6 feet wide. It is located on the east side of US 395 from the intersection with Alder Street north to the intersection with 4th Street. On the rest of the city's streets, bicyclists must share the roadways with motorized vehicles. On low volume roadways, such as many of the local streets, bicyclists and automobiles can both safely and easily use the roadway. On higher volume roadways, particularly US 395, safety for the bicyclists is an important issue.

An impediment to bicycle use is the lack of parking and storage facilities for bikes throughout the city of Pilot Rock.

PUBLIC TRANSPORTATION

The only intercity bus service in Umatilla County is provided by Greyhound bus lines which provides service along I-84, US 395, and OR 11 within Umatilla County. Greyhound has terminals located in Hermiston and Pendleton that connect these cities to each other and major population centers outside of the county. The Hermiston terminal has two departures heading southeast (with stops in Pendleton, La Grande, Boise, and Salt Lake City); three buses running west to Portland; and two buses heading north on US 395 to Pasco and Spokane daily. The Pendleton terminal has three departures southeast (with stops in La Grande, Boise and Salt Lake City); three departures west to Portland; and two departures north to Seattle via Walla Walla, Pasco, and Spokane daily. The line to Seattle could serve Milton-Freewater as it runs through the City along OR 11.

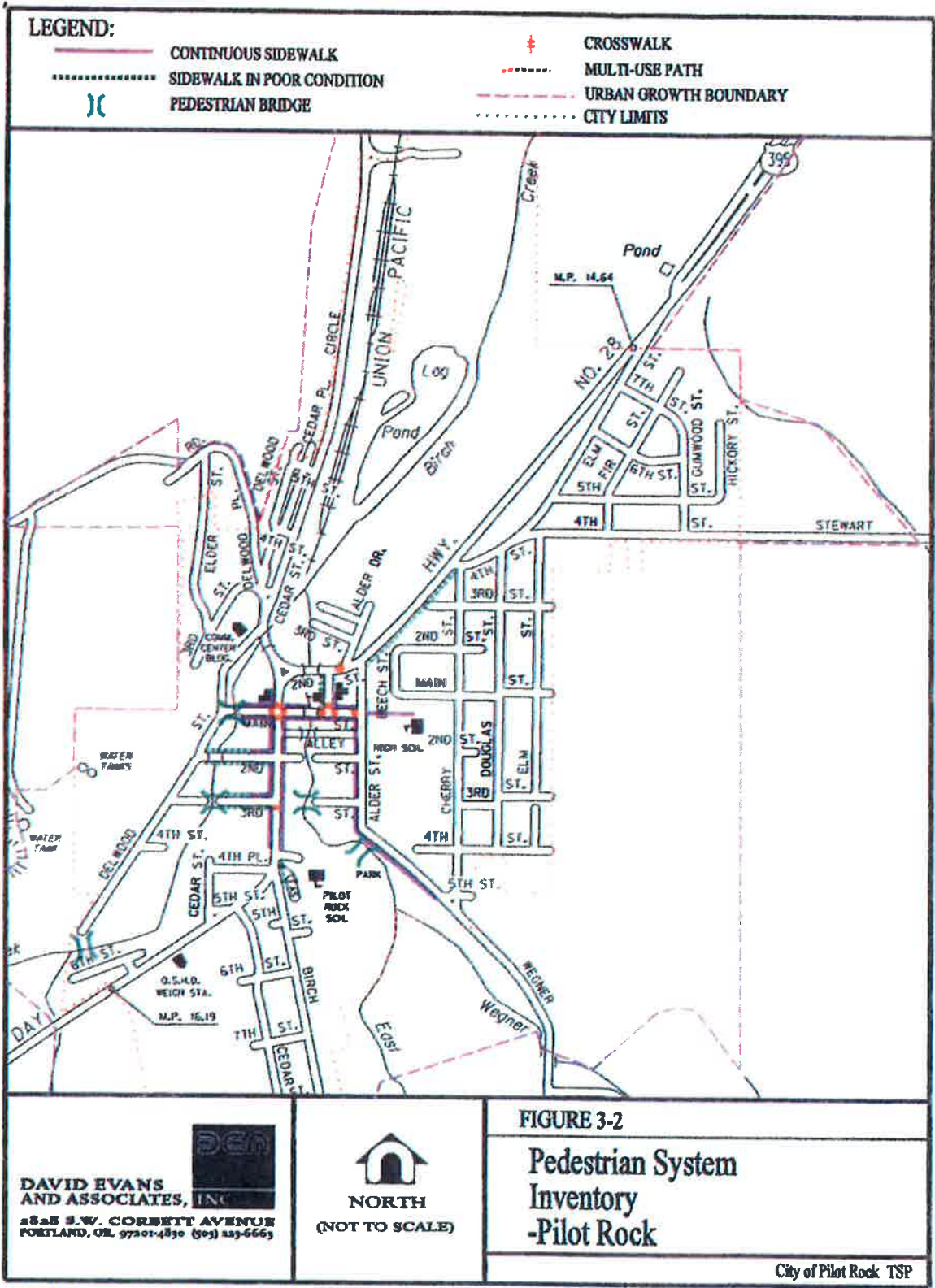
Pilot Rock has a dial-a-ride type service available for the transportation disadvantaged. Dial-a-ride service is defined as door-to-door service initiated by a user's request for transportation service from their origins to specific locations on an immediate or advance reservation basis. This service is provided by the Pilot Rock Lions Club.

Pilot Rock has no local fixed-route transit service at this time. The small size and low traffic volumes on city streets indicate that mass transit is not necessary or economically feasible at this time. The Transportation Planning Rule exempts cities with a population of less than 25,000 from developing a transit system plan or a transit feasibility study as part of their Transportation System Plans.

RAIL SERVICE

Pilot Rock has freight rail service. Until recently, AMTRAK service was available in Hermiston and Pendleton along the rail line that follows the I-84 corridor from Portland to Boise, Idaho and points east. Amtrak is currently experiencing a funding crisis. As a result, passenger service between Portland and Denver, including service to cities within Umatilla County, was discontinued in May 1997. This line serves only freight traffic now.

The Union Pacific Railroad right-of-way runs northeast to southwest into the UGB and city limits stopping just north of downtown. This rail line carries freight between Pilot Rock and Pendleton one to two times per week. The line connects to the Union Pacific main line that runs through Pendleton. In addition to this line, there are two nearby lines. A major freight line owned and operated by Union Pacific Railroad, a Class I line-haul freight railroad, stops in Hermiston. Also, a limited rail service exists between Milton-Freewater and Weston on the Blue Mountain Railroad consisting of one freight train per day (maximum) or some local switching.



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AIR SERVICE

The city of Pilot Rock is served by Eastern Oregon Regional Airport in Pendleton, which is approximately 20 miles north of Pilot Rock and by Hermiston Municipal Airport, which is approximately 40 miles northwest of Pilot Rock.

Eastern Oregon Regional Airport in Pendleton is a tower controlled airport with 40,600 annual operations. Passenger service includes 16 scheduled flights per day by Horizon Airlines, with flights to Portland and Seattle. The airfield is also home to 60 locally owned fixed-wing aircraft, 4 rotor, and 8 CH-47 Chinook helicopters with the Oregon Army Air Guard.

The city of Hermiston owns and operates a municipal airport. No commercial flights are available at the present time, but there is charter service available. The Hermiston Municipal Airport is located 1.5 miles from downtown Hermiston and had 12,380 annual operations in 1995. The airport is at an elevation of 641 feet above Mean Sea Level and has one runway which is 4,500 feet long and positioned in a northeast-southwest direction. The airport is often used by businesses such as Simplot, Gilroy Foods, Les Schwab Tires, UPS, and other large organizations such as PGE, Bonneville Power, and the Army Corps of Engineers. There is an agricultural spray operation based at the airport, and local residents also use the airport for recreational purposes.

PIPELINE SERVICE

Although not often considered transportation facilities, pipelines carry liquids and gases very efficiently. The use of pipelines can greatly reduce the number of trucks and rail cars carrying fluids such as natural gas, oil, and gasoline. Cascade Natural Gas uses these lines to provide natural gas service to Pilot Rock residents.

WATER TRANSPORTATION

Pilot Rock has no water transportation services. The nearest commercial port is the Port of Umatilla located in the northwest corner of the county along the Columbia River.

CHAPTER 4: CURRENT TRANSPORTATION CONDITIONS

As part of the planning process, the current operating conditions for the transportation system were evaluated. This evaluation focused primarily on street system operating conditions since the automobile is by far the dominant mode of transportation in Pilot Rock. Census data were examined to determine travel mode distributions. Traffic counts were used to determine how well traffic is currently flowing.

TRAFFIC VOLUMES

Historic traffic volume counts, documented in the ODOT *Traffic Volume Tables*, exist for US 395 in Pilot Rock.

Average Daily Traffic

The Average Daily Traffic (ADT) volumes on US 395 in Pilot Rock are shown in Figure 4-1. Traffic volumes are highest on US 395 in the center of town (between Second Street and Main Street), at 4,400 vehicles per day (vpd). Traffic volumes on US 395 range from 2,100 vpd to 3,700 vpd in the rest of the urbanized and drop off dramatically outside the urbanized area. US 395 volumes are approximately 1,300 vpd at the south city limit and approximately 3,100 at the north city limit. Traffic volumes on US 395 in Pilot Rock have seen little growth since 1990. Some locations showed an average annual growth rate of 2 to 3 percent per year; however, other locations reported lower average daily traffic volumes in 1996 than in 1990.

The traffic volumes shown on Figure 4-1 and other volume figures are average volumes for the year. Summer is the season when volumes are highest. ODOT data on US 395 west of Pilot Rock indicate that during the summer season, volumes are about 25 percent higher than average volumes.

No other daily or hourly traffic data were available for the city streets in Pilot Rock, nor were any counts taken. Because the daily volumes on US 395 in the City were fairly low, traffic volumes on the other city streets were expected to be very low, and capacity deficiencies on city streets do not appear to be an issue in Pilot Rock.

Street Capacity

Transportation engineers have established various standards for measuring traffic capacity of roadways or intersections. Each standard is associated with a particular level of service (LOS). The LOS concept requires consideration of factors that include travel speed, delay, frequency of interruptions in traffic flow, relative freedom for traffic maneuvers, driving comfort and convenience, and operating cost. In the 1991 OHP, levels of service were defined by a letter grade from A-F, with each grade representing a range of volume to capacity (v/c) ratios. A volume to capacity ratio (v/c) is the peak hour traffic volume on a highway divided by the maximum volume that the highway can handle. If traffic volume entering a highway section exceeds the section's capacity, then disruptions in traffic flow will occur, reducing the level of service. LOS A represents relatively free-flowing traffic and LOS F represents conditions where the street system is totally saturated with traffic and movement is very difficult. The 1999 OHP maintains a similar concept for measuring highway performance, but represents LOS by specific v/c ratios to improve clarity and ease of implementation. Table 4-1 presents the level of service criteria for arterial roadways.

TABLE 4-1
LEVEL OF SERVICE CRITERIA FOR ARTERIAL AND COLLECTOR STREETS

Service Level ⁽¹⁾ (v/c Ratio) ⁽²⁾	Typical Traffic Flow Conditions
A (0.00-0.48)	Relatively free flow of traffic with some stops at signalized or stop sign controlled intersections. Average speeds would be at least 30 miles per hour.
B (0.49-0.59)	Stable traffic flow with slight delays at signalized or stop sign controlled intersections. Average speed would vary between 25 and 30 miles per hour.
C (0.60-0.69)	Stable traffic flow with delays at signalized or stop sign controlled intersections. Delays are greater than at level B but still acceptable to the motorist. The average speeds would vary between 20 and 25 miles per hour.
C-D (0.70-0.73)	
D (0.74-0.83)	Traffic flow would approach unstable operating conditions. Delays at signalized or stop sign controlled intersections would be tolerable and could include waiting through several signal cycles for some motorists. The average speed would vary between 15 and 20 miles per hour.
D-E (0.84-0.87)	
E (0.84-0.97)	Traffic flow would be unstable with congestion and intolerable delays to motorists. The average speed would be approximately 10 to 15 miles per hour.
E-F (0.98-0.99)	
F (≥ 1.00)	Traffic flow would be forced and jammed with stop and go operating conditions and intolerable delays. The average speed would be less than 10 miles per hour.

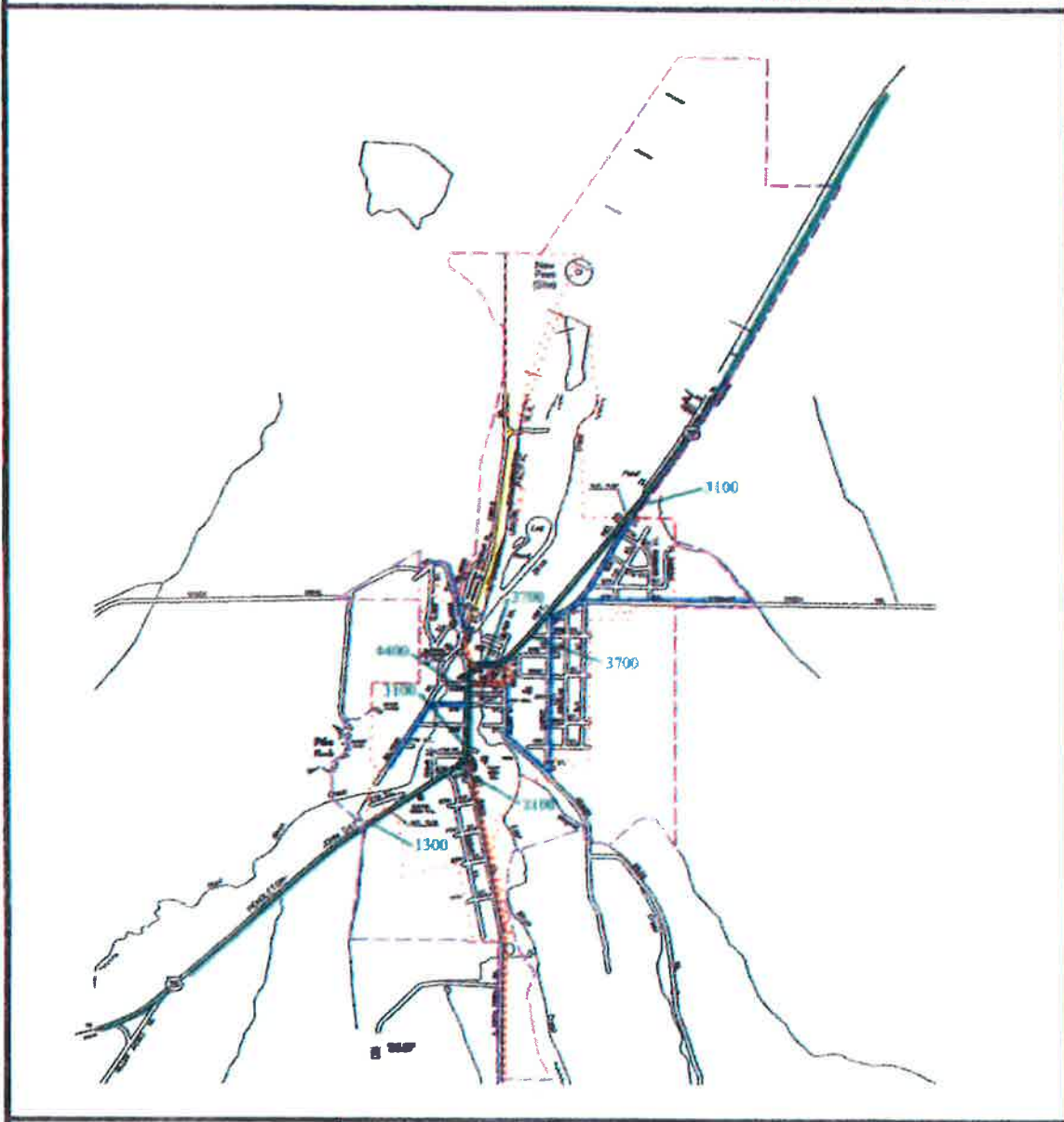
Source: (1) Transportation Research Board, *Highway Capacity Manual*, Special Report 209. National Research Council, 1985.
(2) ODOT, *SIGCAP Users Manual*. ODOT, 1994.

The 1999 *Oregon Highway Plan* (OHP) establishes mobility standards for the state highway system¹. Highways of statewide importance, such as US 395, should operate at a v/c ratio of 0.80 where the average speeds are less than 45 mph in urban and urbanizing areas inside the urban growth boundary.

The traffic operation was determined at a representative intersection (Cedar Street) along US 395 using the 1985 Highway Capacity Software for unsignalized intersections. This software is based on the 1985 Highway Capacity Manual, Special Report 209, published by the Transportation Research Board. Since all intersecting streets and driveways are controlled by stop signs in the City, the analysis was performed for an unsignalized intersection. The peak hour traffic on the highway was assumed to be 10 percent of the 24-hour ADT volume and the directional split was assumed to be 60/40. Because side street traffic volumes were unavailable, an assumed volume of 100 vph was used and unsignalized intersection level-of-service calculations were made for the intersection. The peak hour operations at the intersection are shown in Table 4-2.

¹1999 *Oregon Highway Plan*, Table 6. MAXIMUM VOLUME TO CAPACITY RATIOS OUTSIDE METRO.

LEGEND:		ARTERIAL		LOCAL STREET
		MAJOR COLLECTOR		URBAN GROWTH BOUNDARY
		MINOR COLLECTOR		CITY LIMITS
		INDUSTRIAL / COMMERCIAL STREET		1000 AVERAGE DAILY TRAFFIC



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FIGURE 4-1
1996 Average Daily Two-Way Traffic Volumes -Pilot Rock

City of Pilot Rock TSP

UMCO0001/PILO4-r.DGN/TNT/07-03-98

TABLE 4-2
SUMMARY OF OPERATIONS AT US 395 AND CEDAR STREET

Location	Movement	1996 LOS (v/c)
US 395 and Cedar Street	Northbound; Left	A (<0.48)
	Eastbound; Left, Right	A(<0.48)

Note: The level of service is shown for all evaluated movements of the unsignalized intersection.

In general, the intersection currently operates very well at LOS A (v/c ratio less than 0.48). Traffic on the arterial streets flow smoothly and the northbound left turn at this T-intersection. These left-turn movement levels of service correlate to maximum v/c ratios of less than 0.48.

TRANSPORTATION DEMAND MANAGEMENT MEASURES

In addition to inventorying the transportation facilities in Pilot Rock, an inventory was performed of any Transportation Demand Management (TDM) strategies that may currently be in place. TDM strategies are designed to relieve congestion on the street system by spreading peak hour traffic over a longer period of time, encouraging the use of alternative modes of transportation (i.e. sidewalks, bike lanes, public transit), and encouraging the single car driver to ride with others through local carpool programs. Other than the sidewalk and bicycle facilities that exist in Pilot Rock, no formal TDM strategies exist in the City.

The following sections briefly describe two elements that may impact future transportation demand management decisions in the City: 1) distribution of departure time to work, and 2) distribution of travel modes.

Alternative Work Schedules

One way to maximize the use of the existing transportation system is to spread peak traffic demand over several hours instead of a single hour. Statistics from the 1990 Census show the spread of departure to work times over a 24-hour period (see Table 4-3). Morning to work trips are spread over a wider time period than is the case for most Oregon cities. Approximately 45 percent of the total employees (those not working at home) depart for work between 6:00 and 8:00 a.m. Another 23 percent depart in either the hour before or the hour after the peak. Therefore, over two-thirds of all morning commute trips occur between 5:00 a.m. and 9:00 a.m.

**TABLE 4-3
DEPARTURE TO WORK DISTRIBUTION**

Departure Time	1990 Census	
	Trips	Percent
12:00 a.m. to 4:59 a.m.	45	7.5%
5:00 a.m. to 5:59 a.m.	98	16.2%
6:00 a.m. to 6:59 a.m.	136	22.5%
7:00 a.m. to 7:59 a.m.	138	22.8%
8:00 a.m. to 8:59 a.m.	42	7.0%
9:00 a.m. to 9:59 a.m.	11	1.8%
10:00 a.m. to 10:59 a.m.	6	1.0%
11:00 a.m. to 11:59 a.m.	0	0%
12:00 p.m. to 3:59 p.m.	91	15.1%
4:00 p.m. to 11:59 p.m.	37	6.1%
Total	604	100.0%

Source: US Bureau of Census.

Assuming an average nine-hour workday, the corresponding afternoon peak can be determined for work trips. Using this methodology, the peak work travel hour would occur between 3:00 and 5:00 p.m. which, in many cases, corresponds with the peak hour of measured traffic volumes.

Travel Mode Distribution

Although the automobile is the primary mode of travel for most residents in the Pilot Rock area, some other modes are used as well. Modal split data is not available for all types of trips. The 1990 Census statistics that were reported for journey to work trips are shown in Table 4-4 and reflect the predominant use of the automobile in this area.

In 1990, 90.3 percent of all trips to work were in a private vehicle (auto, van, or truck). Trips in single-occupancy vehicles made-up 90.1 percent of these trips, and carpooling accounted for 9.9 percent.

The 1990 census data indicated that bicycles were not utilized for transportation. Since the census data do not include trips to school or other non-work activities, overall bicycle usage may be greater. Two roadways in northern Pilot Rock include dedicated bicycle lanes. Dedicated bicycle lanes can encourage bicycle commuting, as can other facilities such as bicycle parking, showers, and locker facilities.

Pedestrian activity was average (4.6 percent of trips to work) in 1990. Statewide, 4.2 percent of trips to work were made on foot. Again, the census data only report trips to work; trips to school or other non-work activities are not included.

**TABLE 4-4
JOURNEY TO WORK TRIPS**

Trip Type	1990 Census	
	Trips	Percent
Private Vehicle	567	90.3%
<i>Drove Alone</i>	511	90.1%
<i>Carpooled</i>	56	9.9%
Public Transportation	0	0%
Motorcycle	0	0%
Bicycle	0	0%
Walk	29	4.6%
Other	8	1.3%
Work at Home	24	3.8%
Total	628	100.0%

Source: US Bureau of Census.

ACCIDENT ANALYSIS

The Oregon Department of Transportation (ODOT) collects detailed accident information on an annual basis along US 395 (Pendleton-John Day Highway) within the Pilot Rock city limits (MP 14.64 to MP 16.19). The accident information data show overall accident rates for the routes and accident locations. The accident rate for a stretch of roadway is typically calculated as the number of accidents per million vehicle miles traveled along that segment of roadway.

Historic

Table 4-5 shows the accident rates for US 395 in Pilot Rock as well as the Oregon statewide average for urban non-freeway primary state highways from January 1, 1994 to December 31, 1996. The accident rates for US 395 during 1994 and 1995 are substantially lower than the statewide average for similar highways. The 1996 accident rate slightly exceeds the statewide average.

**TABLE 4-5
HISTORIC ACCIDENT RATES FOR STATE HIGHWAYS
(ACCIDENTS PER MILLION VEHICLE MILES TRAVELED)**

Highway	1996	1995	1994
US 395 in Pilot Rock	3.64	0.71	1.42
Average for all Urban Non-freeway Primary State Highways	3.63	3.98	3.45

Source: Oregon Department of Transportation Accident Rate Tables.

Table 4-6 contains detailed accident information on US 395 in Pilot Rock from January 1, 1994 to December 31, 1996. It shows the number of fatalities and injuries, property damage only accidents, the total number of accidents, and the overall accident frequencies and rates for the segments of these roadways in Pilot Rock.

TABLE 4-6
ACCIDENT SUMMARY FOR US 395
(JANUARY 1, 1994 TO DECEMBER 31, 1996)

Location	Fatalities	Injuries	Property Damage Only	Total Accidents	Accident Frequency (acc/mi/yr)	Accident Rate (acc/mvm)
MP 14.59 to MP 16.19	1	4	4	8	1.67	1.92

Source: Oregon Department of Transportation Accident Summary Database Investigative Report.

During the three-year period, there were a total of eight accidents, four of which were reported as resulting in property damage only. There was one fatality and four injuries on this roadway segment during the period. Five of the accidents occurred at intersections and three occurred on wet or icy pavement. The accidents were scattered along the roadway segment and overall, there were no definitive patterns in the accident locations, types or causes. There is no evidence to suggest that intersection operations (signals, signing, striping, etc.) were a contributing factor in any of the accidents.

CHAPTER 5: TRAVEL FORECASTS

The traffic volume forecasts for Umatilla County and its municipalities are based on historic growth of the state highway system taking into account historic and projected population growth. Forecasts were only prepared for the state highway system in the county, since the volumes on these roadways are much higher than on any of the county roads.

LAND USE

Land use and population growth plays an important part in projecting future traffic volumes. Population forecasts were developed to help determine future transportation needs since the amount of growth and where it occurs will affect traffic and transportation facilities in the study area. The population analysis presented here is not intended to provide a complete economic forecast or housing analysis, and it should not be used for any purpose other than that for which it was designed.

The population projections for Umatilla County are based on historic growth rates, the original population and employment forecasts made by the State of Oregon Office of Economic Analysis (OEA), and a recent study¹ identifying new economically-driven factors that will result in a higher population total than what was initially projected in the DEA forecast.

Historic and projected population estimates for Umatilla County, Pilot Rock, and seven other cities in the county are summarized in Table 5-1. Factors that will affect the future growth rates of the county and incorporated cities include employment opportunities, available land area for development, and community efforts to manage growth.

**TABLE 5-1
UMATILLA COUNTY POPULATION TRENDS**

	1970 ¹	1980 ¹	1990 ¹	1996 ¹ Estimate	2017 ² Projected
Umatilla County	44,923	58,855	59,249	65,500	80,073
Incorporated Cities					
Pilot Rock	1,612	1,630	1,478	1,570	1,650
Adams	219	240	223	260	310
Athena	872	965	997	1,105	1,360
Echo	479	624	499	530	660
Helix	152	155	150	185	230
Stanfield	891	1,568	1,568	1,755	2,490
Ukiah	NA	249	250	280	340
Weston	660	719	606	680	730

Sources:

- 1) Portland State University Center for Population Research and Census.
- 2) The population forecast shown for the county has been officially adopted, however there is no official breakdown in population for the incorporated cities in the county. The projected population numbers shown for the eight cities are based on the initial OEA forecast, solely for the purpose of producing travel forecasts for these cities.

¹ *Umatilla County Population Analysis*, December 16, 1998, produced by David Evans and Associates, Inc.

Umatilla County recently worked with the OEA to increase the official population projections for the county. Even though higher estimates have been adopted for the county than were used for the forecasting in this document, the new estimates will not impact travel projections for the TSP. This is because travel forecasts are based primarily on historic traffic levels taking into account population and land use. The difference between the original estimates and new official estimates is not great enough to impact travel projections.

A detailed description of existing and future land use projections, including the methodology and data sources used, is contained in the Umatilla County Population Analysis located in Appendix C. This appendix contains both the original estimates of the OEA and the new official estimates for the county.

As mentioned, Umatilla County has adopted new population estimates for the county as a whole. The new estimates have been disaggregated to determine how much growth is likely to occur in each city.

Historic Growth

The population of Umatilla County has grown since the 1970s, with significantly slower growth in the 1980s, reflecting a general slowdown in the state's economy. Helix, Pilot Rock, and Weston actually experienced a net population loss between 1970 and 1990. Pilot Rock did grow between 1970 and 1980, but population losses in the 1980's reduced its population by 10 percent from the 1970 census figures. Other communities saw similar growth, but did not experience any losses for 1980 to 1990. In Stanfield, the number of people nearly doubled between 1970 and 1980. This population growth may have been fueled by some significant housing developments and the location of several food processing plants in Stanfield during this time.

Estimated at 65,500 in 1997, the population of Umatilla County has grown relatively rapidly since the 1990 Census, with an average annual growth rate of 1.44 percent. Most of the jurisdictions in Umatilla County have grown at a healthy rate, comparable to the annual growth rate of 1.44 percent for the county overall.. Since 1990, Pilot Rock has grown at a slightly slower rate than the rest of the county at 1.0 percent per year..

Projected Growth

The State Office of Economic Analysis prepared long-term population projections by county, but since the county has not yet allocated adopted population numbers to incorporated cities, preliminary population forecasts for the jurisdictions of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston were developed in five-year increments based on the initial OEA population forecast. (See Umatilla County Population Discussion – Appendix C.) This was done only for the purpose of producing the future traffic forecast and should not be used for anything other than the intended purpose.

The population forecast for Pilot Rock projects continued growth, although at a significantly slower rate than it experienced in the 1990's. It should maintain an average growth rate of .3 percent, which will increase its population to 1650 people in the next 20 years, which is an increase of 80 people since 1996 (Table 5-1).

Overall, Umatilla County is also expected to experience healthy rates of population growth, averaging nearly one percent annually over the next 20 years. The western portion of Umatilla County is expected to grow faster than the rest of Umatilla County,. However, like much of rural Oregon, the economy of Umatilla

County remains largely seasonal, with nearly one-quarter of all employment agriculture-based. This makes population projections difficult, and are not likely to be as stable as the forecasts imply.

TRAFFIC VOLUMES

Traffic volume projections for the year 2018 are based on historic growth trends of highway volumes taking into account current and future land use projections.

Historic

Before projecting future traffic growth, it is important to examine past growth trends on the Pilot Rock roadway system. Historic data are only available for the state highway system in Pilot Rock; however, this highway carries far more traffic than any other roads in the City. The Oregon Department of Transportation (ODOT) collects traffic count data on the state highways (rural and urban sections) every year at the same locations. These counts have been conducted at seven locations on US 395 (Pendleton-John Day Highway) in Pilot Rock.

Historical growth trends on US 395 in and around Pilot Rock were established using the average annual daily traffic (AADT) volume information presented in the ODOT Traffic Volume Tables for the years 1976 through 1996. The AADT volumes were obtained for each of these years at selected locations along the highway. Using a linear regression analysis of the average AADT volumes between 1976 and 1996, an average annual growth rate was determined. Table 5-2 summarizes the historic average growth rate on each of these sections.

**TABLE 5-2
HISTORIC TRAFFIC GROWTH RATES ON STATE HIGHWAYS**

Highway Section	Average Annual Growth Rate 1976-1996	Total Growth 1976-1996
US 395 (Pendleton-John Day Hwy)		
Rural section- Pendleton to Pilot Rock	1.45%	33.3%
Pilot Rock- north city limits	1.18%	26.5%
Pilot Rock- 0.01 miles south of 3rd Street	-0.69%	-12.9%
Pilot Rock- south city limits	1.63%	38.3%
Rural section- Pilot Rock to Long Creek	2.04%	49.7%

Source: ODOT 1976-1996 Transportation Volume Tables; information compiled by DEA.

Based on volumes from ODOT's annual count locations over the 20-year period from 1976 to 1996, the average annual growth rate on US 395 in Pilot Rock has ranged from approximately -0.7 to 1.6 percent per year. On the rural section of the highway north of Pilot Rock, traffic has been growing at a rate of approximately 2.1 percent per year. South of Pilot Rock, traffic has also been growing at a rate of nearly 2.1 percent per year. In general, the increase in the number of trips over the 20-year period considered is highest north of Pilot Rock and lowest south of Pilot Rock. The higher growth rates at the south city limits and on the southern rural section from Pilot Rock to Long Creek are somewhat misleading since these locations experienced the smallest net increases in the number of trips; however, these locations experience low traffic volumes so the small increases in trips resulted in a higher percentage of the location's base year trips.

Traffic growth on US 395 in Pilot Rock averaged 0.61 percent per year over the last 20 years. Although modest, traffic growth between 1976 and 1996 exceeded the population growth in Pilot Rock itself, which was negative during that period. Pilot Rock experienced a growth spurt between 1990 and 1996 where

population growth averaged 1.0 percent per year (the result of an increase of 92 residents over the six years); however, traffic volumes on the highway grew at less than 1 percent per year during that period. Typically, the rate of traffic growth exceeds that of population growth, as it did over the past 20 years; however, that has not been the case in Pilot Rock since 1990.

Future Traffic Volumes

Based on the official OEA estimates for the county, the population in Pilot Rock is forecast to grow at a rate of 0.3 percent per year over the next 20 years. It was decided that the most appropriate growth rate to project future traffic is that rate which was calculated from the historic traffic growth and not those rates which were calculated from the historic and future population forecasts. Using the same linear regression analysis used to calculate the historic growth rate of traffic, forecasts were made for the years 1996 through 2018. Traffic volumes are expected to grow at a rate of 0.61 percent per year (14.3 percent by the year 2018) to 3,085 vpd on the highway. This estimate is consistent with the traffic forecasts in the *Corridor Strategy of US Highway 395 South (Pendleton-California Border)*.

It is important to note that using the historical growth trends assumes that future traffic patterns will remain consistent with historical patterns, without consideration of future planned developments.

The forecast future traffic volumes and total growth from 1996 to 2018 are shown in Table 5-3.

TABLE 5-3
FORECAST TRAFFIC VOLUMES AND TOTAL GROWTH ON STATE HIGHWAYS

Location	1996 ADT (vehicles/day)	2018 ADT (vehicles/day)	Total Growth 1996-2018
<i>US 395 (Pendleton-John Day Hwy)</i>			
Pilot Rock- north city limits	3,100	3,545	14.3%
Pilot Rock- 0.01 miles south of 3rd Street	3,700	4,230	14.3%
Pilot Rock- south city limits	1,300	1,485	14.3%

Source: ODOT 1976-1996 Transportation Volume Tables; information compiled by DEA.

HIGHWAY SYSTEM CAPACITY

For the year 2018, unsignalized intersection analyses were performed using the overall growth (14.3 percent) expected on US 395 at the same intersection in Pilot Rock for which the existing conditions were analyzed. The analyses indicated that all three intersections are expected to exceed ODOT level of service standards over the 20-year forecast period. The results of the unsignalized intersection analyses are shown in Table 5-4. Traffic operations were determined at the intersection using the 1985 Highway Capacity Software for unsignalized intersections. This software is based on the 1985 *Highway Capacity Manual*, Special Report 209, published by the Transportation Research Board.

TABLE 5-4
SUMMARY OF FUTURE OPERATIONS AT US 395 AND CEDAR STREET

Location	Movement	1996 LOS	2018 LOS
US 395 and Cedar Street	Northbound; Left	A(< 0.48)	A(< 0.48)
	Eastbound; Left, Right	A(< 0.48)	A(< 0.48)

Note: The level of service is shown for all evaluated movements of the unsignalized intersection.

Analysis Results

Traffic movement volumes at the intersection of US 395 and Cedar Street are forecast to increase by nearly 15 percent over the 20-year forecast period. However, all traffic movements at the intersection are expected to continue to operate at LOS A (v/c ratio less than 0.48) throughout the 20-year forecast period.

CHAPTER 6: IMPROVEMENT OPTIONS ANALYSIS

As required by the Oregon Transportation Planning Rule (TPR), transportation alternatives were formulated and evaluated for the Pilot Rock Transportation System Plan (TSP). These potential improvements were developed with the help of the TAC, and city and state officials. Each of the transportation system improvements options was developed to address specific deficiencies, access, or safety concerns and attempt to address the concerns specified in the goals and objectives (Chapter 2).

The following list includes all of the potential transportation system improvements considered. Improvement Options 2 through 7 are illustrated in Figure 6-1.

1. Extend North 6th Street to US 395.
2. Replace pedestrian bridge over West Birch Creek between Delwood Street and South 6th Street.
3. Replace vehicle bridge over East Birch Creek on alley road.
4. Establish a roadway maintenance and improvement program.
 - 4A. Pave Hickory Street up to Fir Street.
 - 4B. Pave Alder/Beech Street between 5th Street and US 395.
 - 4C. Pave SW 4th Place and SW Cedar Street.

The proposed transportation system improvements evaluated for the Pilot Rock TSP include state highway, county, and local road projects. **It should be noted that not all of the transportation improvement options recommended along the county and state systems have identified funding. Therefore, recommended transportation improvements cannot be considered as committed projects, but are subject to the county's and ODOT's abilities to meet these current and future needs financially.**

EVALUATION CRITERIA

The evaluation of the potential transportation improvements in the city of Pilot Rock was based on a quantitative analysis of existing and future traffic volumes and a qualitative review of four factors: 1) safety; 2) access; 3) environmental factors, such as air quality, noise, and water quality; and 4) socioeconomic and land use impacts, such as community livability, right-of-way requirements and impacts on adjacent lands.

Another factor considered in the evaluation of the potential transportation improvements was cost. Costs were estimated in 1998 dollars based on preliminary alignments for each potential transportation system improvement.

STATEWIDE TRANSPORTATION IMPROVEMENT PROGRAM PROJECTS

The Oregon Department of Transportation (ODOT) has a comprehensive transportation improvement and maintenance program that covers the entire state highway system. The Statewide Transportation Improvement Program (STIP) identifies all the highway improvement projects in Oregon. The STIP lists specific projects, the counties in which they are located, and their construction year.

The 2000 to 2003 STIP Update, recently released by ODOT Region 5, identifies two improvements within the city of Pilot Rock. The first improvement to replace West Birch Creek Bridge (County Bridge #

59C900) on SW 2nd Road was completed in the year 2000. The total cost of the project was estimated at \$275,000. The second STIP project includes roadway preservation work along US 395 between the north city limits of Pilot Rock to McKay Dam, north of the City including development of a deceleration lane at the entrance of Kinzua. This project is scheduled for construction by the year 2003 with an estimated cost of \$2,720,000. Both STIP projects are also shown in Figure 6-1.

IMPROVEMENT OPTIONS EVALUATION

Through the transportation analysis and input provided from the public involvement program, multiple improvement projects were identified. These options included constructing new and reconstructing existing roadways, bridge replacement, and providing improved pedestrian and bicycle facilities.

Option 1. Extend North 6th Street To US 395

The city of Pilot Rock has identified a potential safety hazard at the highly skewed intersection of Elm Street at US 395. This intersection was created when US 395 was realigned and Elm Street was established along the highway's original alignment. The unrestricted sight distance along the highway from Elm Street is adequate. However, the potential hazard lies in a sight distance restriction along the highway to the south created by the orientation of a driver's vehicle when making a right turn.

Rather than realign this intersection to mitigate this restriction, the city of Pilot Rock has identified an alternative solution to extend North 6th Street to US 395. This would create a standard T-shaped intersection and would provide unrestricted sight distance in both directions along the highway.

The extension of 6th Street would require the construction of only 60 feet of new roadway. Sidewalks and curbs should also be included along the new road.

The area along the proposed 6th Street alignment is open land and a new connection to US 395 would not have any adverse impacts to the current land use. There are some grade problems associated with extending 6th Street to connect with US 395. As a result, the new connection to US 395 would be slightly offset from the newly constructed entrance to the Kinzua lumber mill but would allow an opportunity to also consider the addition of a truck deceleration lane on US 395.

The existing skewed intersection at Elm Street and US 395 would be removed. The estimated cost for the new roadway extension is around \$130,000. Funding for this project will be provided by the State to address the potential safety hazard at the existing skewed intersection.

This option is scheduled for construction in 2002.

Option 2. Replace Pedestrian Bridge Over West Birch Creek Between Delwood Street and South 6th Street

This project includes the replacement of the pedestrian bridge over West Birch Creek located between Delwood Street and South 6th Street, over the next three to five years (2001-2003). The city of Pilot Rock has been monitoring the degradation of this bridge over the years and has recommended its replacement.

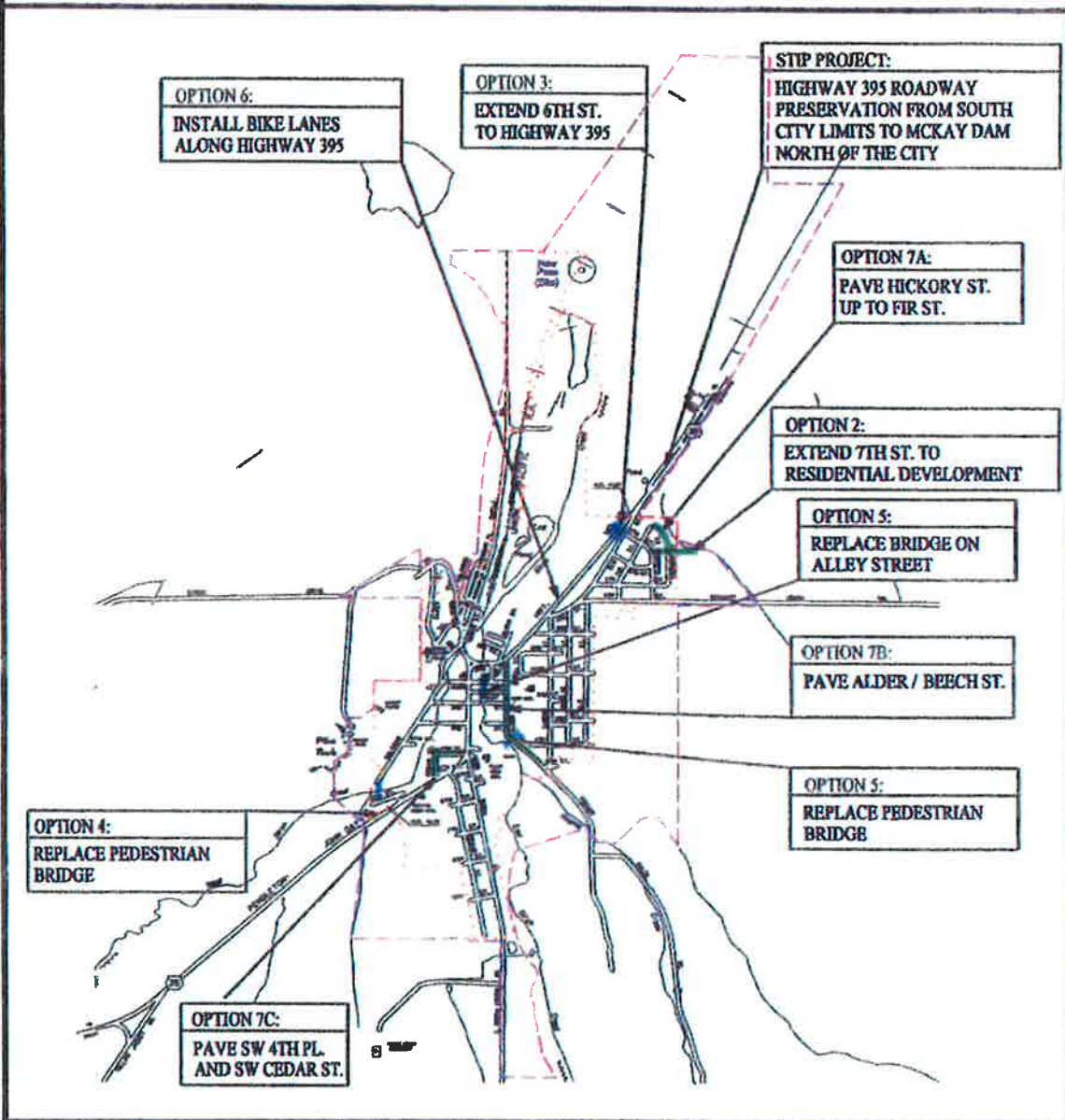
Replacement of the existing bridge will maintain this important pedestrian link between Delwood Street and South 6th Street. This bridge provides pedestrians with an alternative to walking downtown other than by way of US 395.

LEGEND:



ROADWAY IMPROVEMENT
 INTERSECTION IMPROVEMENT
 BRIDGE IMPROVEMENT

----- URBAN GROWTH BOUNDARY
 CITY LIMITS



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FIGURE 6-1

**Potential Transportation
 System Improvements
 -Pilot Rock**

City of Pilot Rock TSP

UMCD0001/PII.06-1.DGN/BJD/07-26-99

The total cost for the bridge replacement is around \$7,500. This was determined from the costs of other previous bridge replacements in the City.

This option is recommended within the next 10 to 20 years, or when replacement becomes critical.

Option 3. Replace Vehicle Bridge Over East Birch Creek On Alley Road

City of Pilot Rock officials believe the vehicle bridge over East Birch Creek on the alley road located between Main Street and South 2nd Street, will be in need of replacement in the next 10 to 20 years.

The total cost to remove and replace the existing bridge was determined using 1997 square foot construction cost estimates, supplied by ODOT, which were taken from the latest prospectus' completed for the federal Highway Bridge and Roadway Rehabilitation (HBRR) fund. These estimates assume a cost of \$6 per square foot for bridge removal and \$54 per square foot for construction of a bridge with a span between zero and 60 feet. Assuming the existing bridge is around 50 feet long by 20 feet wide, the estimated bridge removal cost is around \$6,000. Assuming the new bridge will be around 50 feet long and 25 feet wide, the estimated bridge construction cost is around \$67,500. An additional 5 feet was added to the bridge width to account for two lanes of traffic and a sidewalk along one side. The total cost, therefore, for the entire project is estimated at \$73,500.

Because of limited city funds, the removal and replacement of this bridge may not be feasible. The City may apply for state or federal grants to secure the necessary funds, or the City may choose to construct a bridge similar to the existing steel structure.

This option is recommended over the next 10 to 20 years, or when ever the bridge becomes structurally deficient.

Option 4. Establish a Roadway Maintenance and Improvement Program

Many of the local streets in Pilot Rock are substandard gravel roads and are in need of paving. In response to this need, city officials have developed a six-year roadway maintenance and improvement plan to upgrade local city streets to paved roads. At this time, the plan includes a prioritized list of six projects. The following table describes the location of these projects along with each project's length and estimated total cost.

**TABLE 6-1
ROADWAY MAINTENANCE AND IMPROVEMENT PROGRAM**

Project No.	Description/Location	Project Length	Total Cost
4A.	Pave Hickory Street up to Fir Street.	400 feet	\$11,300
45B.	Pave Alder Street between 5th Street and US 395	1,900 feet	\$62,200
4C.	Pave SW 4th Place and SW Cedar Street	900 feet	\$25,400
Total			\$98,900

The cost estimates for each project identified above assumes a pavement width that is consistent with the street design standards recommended in Chapter 7. Since Hickory Street, SW 4th Place, and SW Cedar Street, are designated as local streets, a pavement width of 34 feet was selected in conformance with the local street design standard. Alder Street which is designated as a minor collector street, a pavement width

of 38 feet was selected. A pavement width of 46 feet was selected for Alder Street, between Main Street and US 395, corresponding to a major collector street standard.

The estimates above also assume a total unit cost of \$0.83 per square foot of asphalt. The unit cost estimate was obtained from Humbert Asphalt Inc., an asphalt laying company based in Milton-Freewater. This cost also includes cutting and cleaning the edges of streets, patching pot holes, tacking, preleveling the entire street with an average of 1 inch of asphalt, and then overlaying the entire street with 2 inches of asphalt, for a total asphalt overlay of around 3 inches.

Funding for these roadway projects will be provided by the City as funds become available. City officials indicate the City has an annual budget of around \$30,000 to \$50,000 for street improvements.

Paving or repaving the city streets will improve the aesthetics of the local street system and community livability for the residents who reside on these streets. For these reasons, all street paving projects are recommended. However, it is also recommended that each of these projects include the addition of a pedestrian facility in correspondence with the recommended street design standards for all types of streets.

SUMMARY

Table 6-1 summarizes the recommendations of the transportation improvement options based on the evaluation process described in this chapter. Chapter 7 discusses how these improvement options fit into the modal plans for the Pilot Rock area.

**TABLE 6-2
TRANSPORTATION IMPROVEMENT OPTIONS: RECOMMENDATION SUMMARY**

Option	Recommendation
1. Extend North 6th Street to US 395	• Implement
2. Replace pedestrian bridge over West Birch Creek between Delwood Street and South 6th Street	• Implement
3. Replace vehicle bridge over East Birch Creek on alley road	• Implement
4. Establish a maintenance and improvement program	• Implement

CHAPTER 7: TRANSPORTATION SYSTEM PLAN

The purpose of this chapter is to provide detailed operational plans for each of the transportation systems within the community. The Pilot Rock Transportation System Plan covers all the transportation modes that exist and are interconnected throughout the urban area. Components of the TSP include street classification standards, access management recommendations, transportation demand management measures, modal plans, and a system plan implementation program.

STREET DESIGN STANDARDS

Street design standards ensure the design of a roadway supports its intended function. The function is determined by operational characteristics such as traffic volume, operating speed, safety, and capacity. Street standards institute design parameters necessary to provide a community with roadways that are relatively safe, aesthetic, and easy to administer when new roadways are planned or constructed. They are based on experience, and policies and publications of the profession.

Existing Street Standards

Street designations for Pilot Rock are contained in the *Pilot Rock Technical Report*, while street definitions and standards are listed in the *City of Pilot Rock Subdivision Ordinance* (1986). The city of Pilot Rock Technical Report designates streets in the city as arterials, major collectors or minor collectors. All streets not classified are assumed to be local streets. The Technical Report is not adopted as part of the Comprehensive Plan, but acts as a supporting document. An inconsistency between the Technical Report and Subdivision Ordinance exists in that the Subdivision Ordinance definitions and standards do not distinguish between major and minor collectors and add an additional classification, alleys. Furthermore, standards for street types are broken into two groups – business/industrial streets and residential streets as shown in Tables 7-1 and 7-2.

The Subdivision Ordinance regulates the construction of new or undeveloped streets within the city and Urban Growth Boundary. It defines the different streets as follows:

Alley: A narrow street through a block primarily for vehicular service access to the back or side of properties otherwise abutting on another street.

Arterial: A street of considerable continuity that is primarily a traffic artery for travel between large areas.

Collector: A street supplementary to the arterial street system and a means of travel between this system and smaller areas, used to some extent for through traffic and to some extent for access to abutting properties.

Cul-de-sac: A short street having one end to traffic and being terminated by a vehicle turn-around.

Local Street: A street intended primarily for access to abutting properties.

Marginal Access Street: A local street parallel and adjacent to an arterial street providing access to abutting properties, but protected from through traffic.

The Ordinance also lists general requirements and design standards for streets. General requirements include the frontage requirements, grading, topography and arrangement of streets, road names, sign

requirements, and street light requirements. Design standards include widths for rights-of-way, pavement, grade, speed, and sidewalks as follows:

**TABLE 7-1
ROAD DESIGN STANDARDS – BUSINESS/INDUSTRIAL**

Road Classification	Minimum Right-of-way	Minimum Surface Width	Maximum Grade	Speed	Sidewalks
Arterial Street	100 ft	48 ft	5 %	45 mph	Both sides 5 ft
Collector Street	70 ft	44 ft	7 %	40 mph	One sides 4 ft
Local Street	60 ft	38 ft	8 %	30 mph	One side 4 ft
Alleys	24 ft	24 ft	nl	nl	nl

nl - no standard listed

**TABLE 7-2
ROAD DESIGN STANDARDS – RESIDENTIAL**

Road Classification	Minimum Right-of-way	Minimum Surface Width	Maximum Grade	Speed	Sidewalks
Arterial Street	80 ft	44 ft	8 %	40	Both sides 4 ft
Collector Street	60 ft	38 ft	10 %	35	Optional*
Local Street	50 ft	38 ft	12 %	25	Optional*
Alleys	20 ft	20 ft	nl	nl	nl

nl - no standard listed

* Sidewalks may be required by the City Council on these streets.

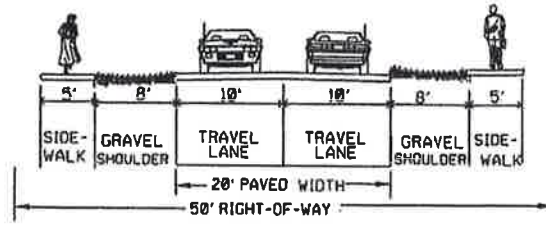
Subdivisions are required to provide frontage on and access to an existing street. Streets must be improved to city, county or state standards. Sidewalks may be required at the discretion of the City Council on local or collector residential streets.

Pedestrian accesses may be required by the City Council to facilitate pedestrian access from streets to schools, parks, playgrounds, or other nearby streets. These are perpetual unobstructed easements at least 20 feet in width. The City Council may also require installation of separate bicycle lanes within streets or on separate paths.

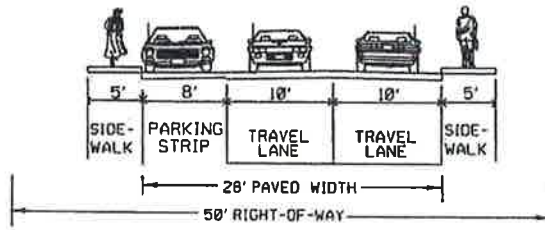
Recommended Street Standards

The development of the Pilot Rock Transportation System Plan provides the city with an opportunity to review and revise street design standards to resolve the discrepancies between the Subdivision Ordinance and the Technical Report. The recommended standards take into account the existing Subdivision Ordinance standards and revise them to fit more closely with the functional street classifications, and the goals and objectives of the Transportation System Plan. The recommended street standards for all types of functional classifications are shown graphically in Figure 7-1 through Figure 7-4, and are summarized in Table 7-3. These standards are consistent with the existing roadway functional classification shown in Figure 3-1. Further discussion of each type of street standard follows below.

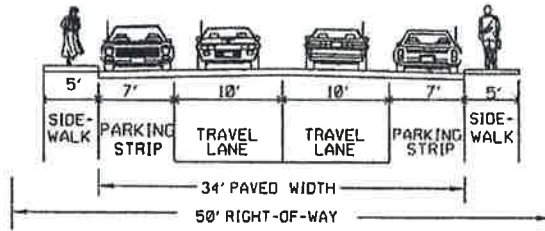
Since the Pilot Rock Transportation System Plan includes all land within the UGB, the recommended street standards should be applied to the areas within and outside the city limits that are within the UGB. Although some of the outlying areas may presently have a rural appearance, these lands will ultimately be part of the urban area. Retrofitting rural streets in these areas as well as all rural streets within the city limits



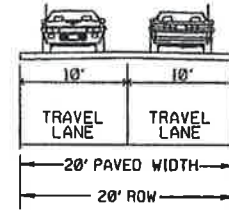
OPTION 1: TWO TRAVEL LANES, NO ON-STREET PARKING, GRAVEL SHOULDERS



OPTION 2: TWO TRAVEL LANES, ON-STREET PARKING ON ONE SIDE ONLY



OPTION 3: TWO TRAVEL LANES, ON-STREET PARKING ON BOTH SIDES



ALLEYS

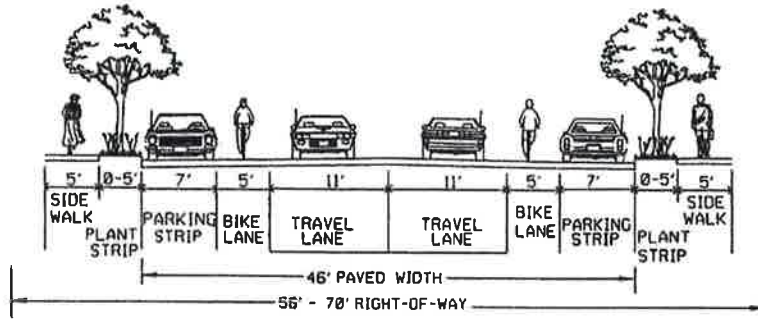

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FIGURE 7-1

Street Standards Local Residential and Alleys

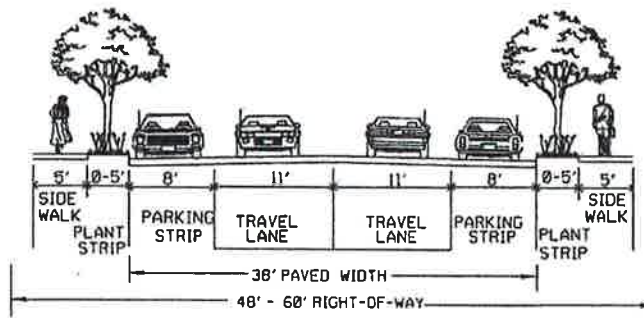
City of Pilot Rock TSP

UMCO0001/pilot/pil07-1-4.DGN/JXD/08-25-98



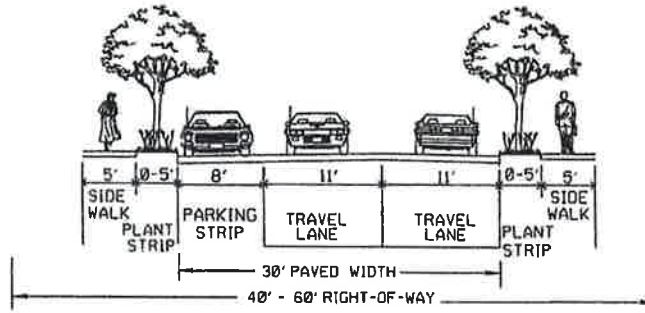
MAJOR COLLECTOR

TWO TRAVEL LANES WITH BIKE LANES AND ON-STREET PARKING ON BOTH SIDES



MINOR COLLECTOR

OPTION 1: TWO TRAVEL LANES WITH ON-STREET PARKING ON BOTH SIDES



MINOR COLLECTOR

OPTION 2: TWO TRAVEL LANES WITH ON-STREET PARKING ON ONE SIDE ONLY

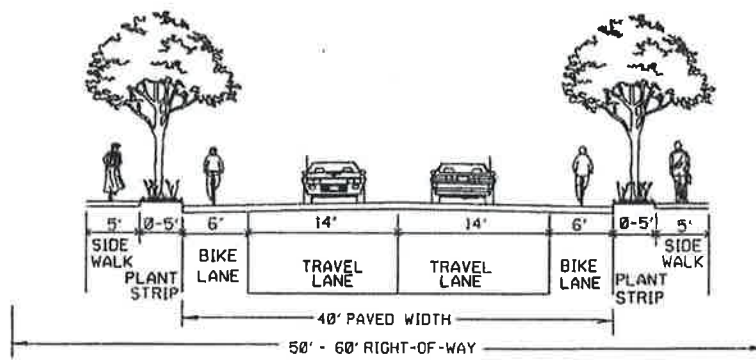
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FIGURE 7-2

**Street Standards
 Collector Streets**

City of Pilot Rock TSP

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TWO TRAVEL LANES WITH BIKE LANES ON BOTH SIDES

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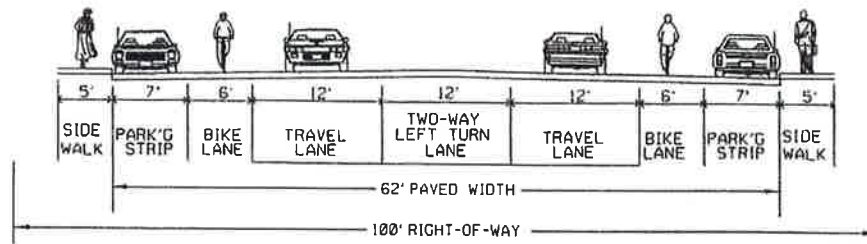


FIGURE 7-3

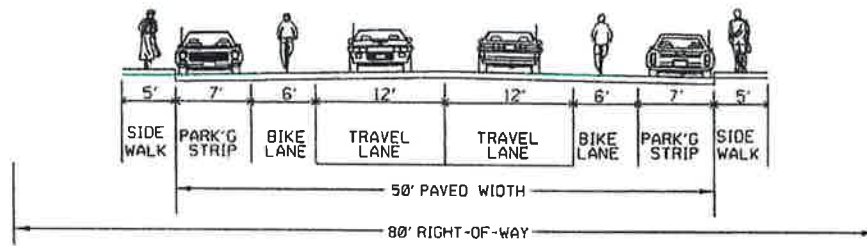
Street Standards
 Industrial / Commercial Streets
 (Collector or Local)

City of Pilot Rock TSP

UMCO0001/pilot/pila7-1-4.DGN/JXD/08-25-98



OPTION 1: TWO TRAVEL LANES, CENTER TURN LANE, BICYCLE LANES, ON-STREET PARKING ON BOTH SIDES



OPTION 2: TWO TRAVEL LANES, BICYCLE LANES, ON-STREET PARKING ON BOTH SIDES


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FIGURE 7-4

Street Standards
Arterial Streets

City of Pilot Rock TSP

\\MCO0001/pilot/pilot-1.4.DGN/JXD/08-25-98

to urban standards in the future is expensive and controversial; it is better to initially build them to an acceptable urban standard.

**TABLE 7-3
RECOMMENDED STREET DESIGN STANDARDS**

Classification	Pavement Width	Right-of-Way Width	Sidewalks	Bike-Lanes	Min. Posted Speed
Arterial – Option 1	62 ft.	80 ft.	5 ft. (both sides)	6 ft. (both sides)	25-45 mph
Arterial – Option 2	50 ft.	80 ft.	5 ft. (both sides)	6 ft. (both sides)	25-45 mph
Major Collector	46 ft.	70 ft.	5 ft. (both sides)	5 ft. (both sides)	25-35 mph
Minor Collector – Option 1	38 ft.	60 ft.	5 ft. (both sides)	none	25-35 mph
Minor Collector – Option 2	30 ft.	60 ft.	5 ft. (both sides)	none	25-35 mph
Industrial/Commercial (Collector or Local)	40 ft.	70 ft.	5 ft. (both sides)	collector - 6 ft. local - none	25-35 mph
Residential (Local) – Option 1	20 ft.	50 ft.	5 ft. (both sides)	none	15-25 mph
Residential (Local) – Option 2	28 ft.	50 ft.	5 ft. (both sides)	none	15-25 mph
Residential (Local) – Option 3	34 ft.	50 ft.	5 ft. (both sides)	none	15-25 mph
Alley	20 ft.	20 ft.	none	none	15 mph

Sidewalks should be included on all urban streets as an important component of the pedestrian system. Ideally, sidewalks should be buffered from the street by a planting strip to eliminate obstructions in the walkway, provide a more pleasing design and a buffer from traffic. When sidewalks are located directly adjacent to the curb, they can include such impediments as mailboxes, street light standards, and sign poles, which reduce the effective width of the walk. To maintain a safe and convenient walkway for at least two adults, a 5 foot sidewalk should be used in residential areas.

Residential Streets (Local)

The design of a residential local street affects its traffic operation, safety, and livability. The residential street should be designed to enhance the livability of the neighborhood while accommodating less than 1,200 vehicles per day. Design speeds should be 15 to 25 mph. When traffic volumes exceed approximately 1,000 to 1,200 vehicles per day, the residents on that street will perceive the traffic as a noise and safety problem. To maintain neighborhoods, residential streets should be designed to encourage low speed travel and to discourage through traffic. Narrower streets discourage speeding and through traffic as well as improve neighborhood aesthetics. They also reduce right-of-way needs, construction costs, storm water runoff, and the need to clear vegetation.

Three recommended street standard options are provided for local streets, as shown in Figure 7-1. Each option provides a minimum of 20 feet of pavement and provides varying degrees of on-street parking. The city should choose one of these options for each residential street based on the existing right-of-way and neighborhood character.

Option 1

This first option for a local residential street is a 20 foot paved roadway surface within a 50 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with 8 foot wide gravel shoulders on both sides of the street for parking. Five-foot sidewalks should also be provided on each side of the roadway.

Option 2

This option provides a 28 foot paved roadway surface within a 50 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with curbside parking on one side. Five-foot sidewalks should be provided on each side of the roadway, adjacent to the curb.

Option 3

A third option for a residential street provides a 34 foot paved roadway within a 50-foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with curbside parking present along both sides of the road. A five-foot wide sidewalk should be provided on each side of the roadway, adjacent to the curb.

Alleys

Alleys can be a useful way to diminish street width by providing rear access and parking to residential, commercial, and industrial areas. Including alleys in a residential subdivision allows homes to be placed closer to the street and eliminates the need for garages to be the dominant architectural feature. This pattern, once common, has been recently revived as a way to build better neighborhoods. In addition, alleys can be useful in commercial and industrial areas, allowing access for delivery trucks which is off the main streets. Alleys should be encouraged in the urban area of Pilot Rock. Alleys should be 20 feet wide, with a 20 foot right-of-way (see Figure 7-1).

Cul-de-Sac Streets

Cul-de-sac, or “dead-end” residential streets are intended to serve only the adjacent land in residential neighborhoods. These streets should be short (less than 400 feet long) and serve a maximum of 20 single-family houses. Because the streets are short and the traffic volumes relatively low, the street width can be narrower than a standard residential street, allowing for the passage of two lanes of traffic when no vehicles are parked at the curb and one lane of traffic when vehicles are parked at the curb.

Because cul-de-sac streets limit street and neighborhood connectivity, they should only be used where topographical or other environmental constraints prevent street connections. Where cul-de-sacs must be used, pedestrian and bicycle connections to adjacent cul-de-sacs or through streets should be included.

Collector Streets

Collectors are intended to carry between 1,200 and 10,000 vehicles per day, including limited through traffic, at a design speed of 25 to 35 mph. A collector can serve residential, commercial, industrial, or mixed land uses. Collectors are primarily intended to serve local access needs of residential neighborhoods by

connecting local streets to arterials. Bike lanes are typically not needed in smaller cities like Pilot Rock due to slower traffic speeds and low traffic volumes.

Four recommended street standard options are provided for collectors, as shown in Figure 7-2. All four options provide one lane of moving traffic in each direction. The collectors can be striped to provide two travel lanes plus left-turn lanes at intersections or driveways by removing parking for short distances. One of the options is intended for industrial/business areas. This option would be appropriate for the Cedar Street/Circle Street route north of its intersection with US 395. The City should choose which option is most appropriate for each collector based on the existing right-of-way and neighborhood character.

Major Collector

This option provides a 46 foot paved roadway surface within a 70 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with curbside parking on both sides of the street. Five foot sidewalks should be provided on each side of the roadway along with an optional planting strip with a width up to 5 feet.

Minor Collector– Option 1

This option is similar to the major collector. It also provides a 38 foot paved roadway surface within a 60 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with curbside parking on both sides of the street. Four foot sidewalks should be provided on one side of the roadway along with an optional planting strip with a width up to 5 feet.

Minor Collector – Option 2

This option provides a 30 foot roadway surface within a 60 foot right-of-way. This standard will accommodate passage of one lane of moving traffic in each direction, with curbside parking on one side. Five foot sidewalks should be provided on each side of the roadway, adjacent to the curb along with an optional planting strip with a width up to 5 feet.

Industrial/Commercial Collector or Local Street

This option calls for a 70 foot right-of-way and a 40 foot paved width. The 40 foot curb face-to-curb face distance allows two 14 foot travel lanes and two 6 foot wide bicycle lanes. Five-foot sidewalks shall be provided on each side of the roadway and a 5-foot wide planting strip is optional. In areas where truck loading and unloading is necessary, the sidewalks can be widened to 8 feet and located adjacent to the curb (see Figure 7-3).

The industrial/commercial street in a residential area has the same design standards except that bicycle lanes are optional.

Arterial Streets

Arterial streets form the primary roadway network within and through a region. They provide a continuous roadway system that distributes traffic between different neighborhoods and districts. Generally, arterial streets are high capacity roadways that carry high traffic volumes with minimal localized activity. Design speeds should be between 25 and 45 mph (see Figure 7-4).

Option 1

This option consists of a 80 foot right-of-way and a 62 foot paved width. This standard allows for two 12 foot travel lanes, a 12 foot center turn lane, two 6 foot bike lanes, and curbside parking along both sides of the roadway at 7 feet wide. Sidewalks, at least 5 feet in width, should also be provided on each side of the roadway.

Option 2

This option is similar to Option 1, but without the center turn lane. This standard provides a 50 foot paved surface within an 80 foot right-of-way to allow for two 12 foot travel lanes, two 6 foot bike lanes, and curbside parking along both sides of the roadway at 7 feet wide. Sidewalks, at least 5 feet in width, should also be provided on each side of the roadway.

Bike Lanes

In cases where a bikeway is proposed within the street right-of-way, 5 to 6 feet of roadway pavement should be striped on each side and reserved for bike lanes. The striping should be done in conformance with the *State Bicycle and Pedestrian Plan* (1995). In cases where curb parking will exist with a bike lane, the bike lane will be located between the parking and travel lanes. In some situations, curb parking may have to be removed to permit a bike lane.

Bikeways should be added when a new street is built or improvements are made to existing streets.

On arterial and collector streets that are not scheduled to be improved as part of the street system plan, bike lanes may be added to the existing roadway at any time to encourage cycling, or when forecast traffic volumes exceed 2,500 to 3,000 vehicles per day. The striping of bike lanes on streets that lead directly to schools should be high priority.

Sidewalks

A complete pedestrian system should be implemented in the urban portion of Pilot Rock. Every urban street should have sidewalks on both sides of the roadway as shown on the cross sections in Figure 7-1 through Figure 7-4. Sidewalks on residential streets should be at least 4 feet wide. In addition, pedestrian and bicycle connections should be provided between any cul-de-sac or other dead-end streets.

Another essential component of the sidewalk system is street crossings. Intersections must be designed to provide safe and comfortable crossing opportunities. Tools to accomplish this include crosswalks, signal timing (to ensure adequate crossing time) when traffic signals are present, and other enhancements such as curb extensions which are used to decrease pedestrian crossing distance and act as traffic calming measures.

Curb Parking Restrictions

Curb parking should be prohibited at least 25 feet from the end of an intersection curb return to provide sight distance at street crossings.

Street Connectivity

Street connectivity is important because a well-connected street system provides more capacity and better traffic circulation than a disconnected one. Developing a grid system of relatively short blocks can minimize excessive volumes of motor vehicles along roads by providing a series of equally attractive or restrictive travel options. Street connectivity in Pilot Rock is constricted due to a number of natural features. Three creeks run through town (East and West Birch Creek, which become one creek just north of downtown, and Wegner Creek). Therefore, Pilot Rock contains a broken grid system with many discontinuing, or dead-end streets. There are many pedestrian bridges over the creeks, however. When feasible, vehicle bridges should be created to connect the grid system. New development should maintain square short blocks (under 400 feet in length) whenever possible. Short interconnected blocks benefit cars, pedestrians and bicyclists by shortening travel distances and making travel more convenient. The average block size within the City's grid system is around 300 feet square, which is an ideal block size. New development should have a maximum block perimeter of 1,200 feet. Good street connectivity is critical to Pilot Rock's continued livability.

ACCESS MANAGEMENT

Access management is an important tool for maintaining a transportation system. Too many access points along arterial streets lead to an increased number of potential conflict points between vehicles entering and exiting driveways, and through vehicles on the arterial streets. This not only leads to increased vehicle delay and deterioration in the level of service on the arterial, but also leads to a reduction in safety. Research has shown a direct correlation between the number of access points and collision rates. Experience throughout the United States has also shown that a well-managed access plan for a street system can minimize local cost for transportation improvements needed to provide additional capacity and/or access improvements along unmanaged roadways. Therefore, it is essential that all levels of government maintain the efficiency of existing arterial streets through better access management.

The Transportation Planning Rule (TPR) defines access management as measures regulating access to streets, roads and highways from public roads and private driveways and requires that new connections to arterials and state highways be consistent with designated access management categories. As the city of Pilot Rock continues to develop, the arterial/collector/local street system will become more heavily used and relied upon for a variety of travel needs. As such, it will become increasingly important to manage access on the existing and future arterial/collector street system as new development occurs.

One objective of the Pilot Rock TSP is to develop an access management policy that maintains and enhances the integrity (capacity, safety, and level-of-service) of the city's streets. Too many access points along a street can contribute to a deterioration of its safety, and on some streets, can interfere with efficient traffic flow.

Access Management Techniques

The number of access points to an arterial can be restricted through the following techniques:

- Restrictions on spacing between access points (driveways) based on the type of development and the speed along the arterial.
- Sharing of access points between adjacent properties.
- Providing access via collector or local streets where possible.

- Constructing frontage roads to separate local traffic from through traffic.
- Providing service drives to prevent spill-over of vehicle queues onto the adjoining roadways.
- Providing acceleration, deceleration, and right-turn only lanes.
- Offsetting driveways to produce T-intersections to minimize the number of conflict points between traffic using the driveways and through traffic.
- Installing median barriers to control conflicts associated with left-turn movements.
- Installing side barriers to the property along the arterial to restrict access width to a minimum.

Recommended Access Management Standards

Access management is hierarchical, ranging from complete access control on freeways to increasing use of streets for access purposes, parking and loading at the local and minor collector level. Table 7-4 describes recommended general access management guidelines by roadway functional classification.

**TABLE 7-4
RECOMMENDED ACCESS MANAGEMENT STANDARDS**

Functional Classification	Intersections			
	Public Road		Private Drive ⁽²⁾	
	Type ⁽¹⁾	Spacing	Type	Spacing
ARTERIAL STREETS				
US 395 (Pendleton-John Day Highway) ⁽³⁾				
OTHER ARTERIAL STREETS WITHIN UGB				
COLLECTOR STREETS ⁽⁴⁾				
Major: Alder Dr., Birch St., Main St., and Birch Crk Rd. (Co. Road # 1375)	at-grade	250 ft.	L/R Turns	100 ft.
Industrial/Commercial: Cedar St./Circle Rd. (north of US 395), Alder St., Cherry St., and Elm St.				
Minor: 2nd St., 4th St./Stewart Crk. Rd., Delwood St., Delwood Pl.,				
RESIDENTIAL STREETS	at-grade	250 ft.	L/R Turns	Access to Each Lot
ALLEYS (URBAN)	at-grade	100 ft.	L/R Turns	Access to Each Lot

Notes:

- (2) Allowed moves and spacing requirements may be more restrictive than those shown to optimize capacity and safety. Also, see section below on "Access Control Rights" along state highways.
- (3) See section on Special Transportation Area below.
- (4) Some sections of these roads are designated as minor collectors or residential streets, where the corresponding access management standard is applicable.

Application

The access management standards above apply mainly to new development accesses. They are not intended to eliminate existing intersections or driveways. It is important to note, however, that existing developments and legal accesses on the transportation network will not be affected by the recommended access management techniques until a land use action is proposed, a safety or capacity deficiency is identified that

requires specific mitigation, a specific access management strategy/plan is developed, existing properties along the highway are redeveloped, or a major construction project is initiated on the street.

To summarize, access management strategies consist of managing the number of access points and providing traffic and facility improvements. The solution is a balanced, comprehensive system that provides reasonable access while maintaining the safety and efficiency of traffic movement.

State Highways

Access management is important to promoting safe and efficient travel for both local and long distance users along US 395 in Pilot Rock. The *1999 Oregon Highway Plan (OHP)* specifies an access management spacing standards and policies for state facilities.

Although Pilot Rock may designate state highways as arterial roadways within their transportation system, access management for these facilities follows the Access Management Spacing Standards of the *1999 Oregon Highway Plan*. These spacing standards are based on highway classification, type of area and speed, which are shown in the appendix to this document. Access to State Highways is permitted under Oregon Administrative Rules Division 51. This section of the TSP describes the state highway access management objectives and specific highway segments where special access spacing standards apply.

US 395 in Pilot Rock is categorized in the 1999 Oregon Highway Plan as a Statewide Highway. The primary function of these highways is to provide connections to larger urban areas, ports, and major recreation areas of the state not served by freeways. The management objective to statewide urban highways is to provide high to moderate speed operations with limited interruptions in traffic flow. There are no special highway segments identified in the 1999 Oregon Highway Plan that apply to US 395 in Pilot Rock at this time.

ACCESS CONTROL RIGHTS

Historically, owners of property abutting public roadways have enjoyed a common law abutter's right of access to the roadway. However, in order to provide for a transportation system that would accommodate changing public needs, legislation has been passed to modify the rights of access. Oregon Revised Statutes specify among other property rights, the right of access can be purchased or condemned as deemed necessary for rights-of-way. The Oregon Department of Transportation has purchased access control rights from many properties along state highways.

Once the state has acquired the access rights to a property, road approach permits can only be issued at locations on the property where the right of access has been reserved. These "reservations of access" give the property owner the common law right of access to the state highway only at specific locations and they are clearly identified in the deed where the property owner sold the right of way to the state. If the owner wants to gain additional access rights to the highway, they must apply for a "grant" of access.

There may be local street connections shown in this Transportation System Plan that will require modifying the existing access rights or gaining additional access rights to the state highway system. Review of this TSP by ODOT does not imply tacit approval to modify or grant additional access rights. This must be accomplished by applying to ODOT for such modification or grant.

An "indenture of access" is used to modify existing access rights such as moving or widening the reservation or lifting other restrictions that may have been placed on it. A "grant of access" is required to gain an

additional access point to the highway and, depending on the circumstances, may require payment to the state for the market value of the grant. Application for both the indenture and grant of access is made to local ODOT district office.

MODAL PLANS

The Pilot Rock modal plans have been formulated using information collected and analyzed through a physical inventory, forecasts, goals and objectives, and input from area residents. The plans consider transportation system needs for Pilot Rock during the next 20 years assuming the growth projections discussed in Chapter 5. All transportation system needs identified in this section have been assigned a project number in consecutive order, beginning with the projects identified in the street system plan. The timing of these projects will be guided by the changes in land use patterns, growth of the population in future years, and available funds. Specific projects and improvement schedules may need to be adjusted depending on when and where growth occurs within Pilot Rock.

Street System Plan

The street system plan recommends any changes necessary to the current street classification system and outlines a series of improvements that are recommended for construction within the city of Pilot Rock during the next 20 years. These options have been discussed in Chapter 6 (Improvement Options Analysis). Projects that make up the proposed street system plan are summarized in Table 7-5.

Street System Functional Classification

Street system functional classifications relate the design of a roadway to its function. The function is determined by operational characteristics such as travel demand, street capacity, and the operating speed of the roadway. The city of Pilot Rock Technical Report currently classifies all streets within the Urban Growth Boundary as arterial, major collector, minor collector, commercial/industrial roads, or local streets. The Subdivision Ordinance includes an additional category (alleys) and specifies different development standards depending on whether the street is considered residential or industrial/commercial. A review of the existing street system inventory, the recommended street design standards, and all new projects recommended in the street system plan, indicates the Technical Report's functional classifications are appropriate. The recommended street classifications are described as follows:

- Pendleton-John Day Highway (US 395) – classified as an arterial roadway, as it is a highway of statewide level of importance, it carries the highest traffic volumes through the City, and it is a primary route to other cities in the county and state.
- Alder Drive (US 395 to Main Street) – classified as a major collector street, as its function is to connect local neighborhoods to the downtown area and with US 395.
- Birch Creek Road, Co. Road #1375 (from US 395 south) – classified as a major collector street, as its function is to connect local neighborhoods with US 395 and provides a primary route out of town.
- Main Street (US 395 to Alder Street) – classified as a major collector street, as its function is to connect local neighborhoods to the downtown area and to US 395.
- Cedar Street and Circle Road (north of 3rd Street) – classified as an industrial/commercial street, as the function of this roadway is to provide access to the industrial areas north of downtown and connect these areas with US 395.

- 2nd Street (Delwood Street to US 395) – classified as a minor collector street, as its function is to connect local neighborhoods with the downtown area.
- 4th Street/Stewart Creek Road (intersection with US 395 to east city limit) – classified as major collector streets, as they function is to connect local neighborhoods to US 395 and provide a primary connection to areas east of town.
- Alder Street (Main Street to Cherry Street) – classified as a major collector, as its function is to connect local neighborhoods to the downtown area.
- Cherry Street (Alder Street to US 395) – classified as a major collector street, as its function is to connect local neighborhoods with the downtown area.
- Delwood Place (city limits to 2nd Street) – classified as a minor collector street, as it connects local neighborhoods to the downtown area.
- Elm Street (4th Street to US 395) – classified as a minor collector street, as it connects local neighborhoods with US 395.
- All other roads – classified as local streets.

Street Improvement Projects

Table 7-5 presents all street and bridge improvement projects within the urban area that compose the street system plan. Prioritization of these projects is at the discretion of the City and/or county depending upon jurisdiction over the project.

It should be noted that the inclusion of a project in the TSP does not constitute a commitment by ODOT or the county that either agency will participate in the funding of the project. ODOT's participation will be determined via the biennial updates of the multi-year STIP process, and the construction of any project is contingent upon the availability of future revenues. The county's participation will be according to project prioritization as indicated in the Capital Improvement Plan, and contingent upon available funding.

**TABLE 7-5
RECOMMENDED STREET SYSTEM PROJECTS**

Project Number	Location/Description	Cost
1.	Extend North 6th St. to US 395.	\$130,000
4A.	Pave Hickory Street up to Fir Street	\$11,300
4B.	Pave Alder Street between 5th Street and US 395	\$62,200
4C.	Pave SW 4th Place and SW Cedar Street	\$25,400
3.	Replace vehicle bridge over East Birch Creek on alley roadway.	\$73,500
Total		\$302,400

Pedestrian System Plan

A complete interconnected pedestrian system should be implemented in the City when feasible. A sidewalk inventory revealed that Pilot Rock's urban core has a fairly developed sidewalk system. Sidewalks exist

through the downtown area on both sides of US 395, Main Street, 2nd Street, and 3rd Street. Unfortunately, many of these sidewalks are in poor condition and curb cuts for wheelchairs are lacking. Crosswalks exist at three intersections and pedestrian bridges traverse the City's creeks in six locations. Every paved street should have sidewalks on both sides of the roadway, except in extenuating circumstances, meeting the requirements set forth in the recommended street standards. Pedestrian access on walkways should be provided continuously between businesses, parks, and adjacent neighborhoods. (Ordinances specifying these requirements are included in Chapter 9.)

Because of the small size of Pilot Rock and the limited public resources available for transportation system improvements, sidewalk construction on a large scale may not be feasible. However, the City should require sidewalks to be constructed as part of any major roadway improvements, or as adjacent land is developed.

The primary goal of establishing a pedestrian system is to improve pedestrian safety; however, an effective sidewalk system has several qualitative benefits as well. Providing adequate pedestrian facilities increases the livability of a city. When pedestrians can walk on a sidewalk, separated from vehicular street traffic, it makes the walking experience more enjoyable and may encourage walking, rather than driving, for short trips. Sidewalks enliven a downtown and encourage leisurely strolling and window shopping in commercial areas. This "Main Street" effect improves business for downtown merchants and provides opportunities for friendly interaction among residents. It may also have an appeal to tourists as an inviting place to stop and walk around.

The cost to construct a concrete sidewalk facility is around \$25 per linear foot. This assumes a sidewalk width of 5 feet with curbing. The cost estimate also assumes the sidewalks are composed of 4 inches of concrete and 6 inches of aggregate. As an alternative, asphalt walkways could be provided instead of a concrete sidewalk at a lower initial cost. Construction costs for this type of facility are typically about 40 percent of the costs for concrete sidewalks; however, maintenance, such as sealing and resurfacing the asphalt, must occur more frequently.

All new sidewalk construction in the City should include curb cuts for wheelchairs at every street corner to comply with the Americans with Disabilities Act (ADA). The addition of crosswalks should also be considered at all major intersections. As street improvements are made to the existing street system, projects involving the construction of new sidewalks may require on-street parking to be implemented in place of parking on grass or gravel shoulders.

In Chapter 6, four pedestrian-related projects were identified. These projects include: providing safety measures at the intersection of US 395 and Main Street, constructing sidewalks along US 395, replacing a pedestrian bridge over West Birch Creek between Delwood Street and South 6th Street, and replacing a pedestrian bridge over East Birch Creek between the city park and Alder Street. These projects are summarized below in Table 7-6.

TABLE 7-6
RECOMMENDED PEDESTRIAN SYSTEM PROJECTS

Project Number	Location/Description	Cost
2.	Replace pedestrian bridge over West Birch Creek between Delwood Street and South 6th Street.	\$7,500
Total		\$7,500

Bicycle System Plan

On the collector and local streets in Pilot Rock, bicyclists share normal vehicle lanes with motorists. Due to low travel speeds and traffic volumes observed in the City shared usage of the roadway between bicyclists and automobiles is appropriate. However, on highways such as US 395, where travel speeds and traffic volumes are much higher, the need to separate bicyclists from highway traffic becomes an issue. US 395 functions as an arterial through Pilot Rock. The *Oregon Bicycle and Pedestrian Plan* recommends that for a facility such as this, a shoulder bikeway should be present. Existing shoulder widths along the highway in the vicinity of Pilot Rock range between 4 feet to over 6 feet. Street standards recommended in this Plan call for 6 foot wide bike lanes on arterial streets.

Bicycle parking is lacking in Pilot Rock. Bike racks should be installed in front of downtown businesses and all public facilities (schools, post office, library, city hall, and parks). Typical rack designs cost about \$50 per bike plus installation. Bike rack installation can be implemented as finances and/or grant funding is available.

Transportation Demand Management Plan

Through transportation demand management (TDM), peak travel demands can be reduced or spread over time to more efficiently use the existing transportation system, rather than building new or wider roadways. Techniques that have been successful and could be initiated to help alleviate some traffic congestion include carpooling and vanpooling, alternative work schedules, bicycle and pedestrian facilities, and programs focused on high density employment areas.

In Pilot Rock, because traffic volumes are low, capacity of the local street system is not an issue. Therefore, implementing TDM strategies may not be practical in most cases

Because intercity commuting is a factor in Umatilla County, residents who live in Pilot Rock and work in other cities should be encouraged to carpool with a fellow coworker or someone who works in the same area. Implementing a local carpool program in Pilot Rock alone is not practical because of the City's small size; however, a county-wide carpool program is feasible. The city of Pilot Rock should support state and county carpooling and vanpooling programs, which could further boost carpooling ridership.

No costs have been estimated for the TDM plan. Grants may be available to set up programs; other aspects of transportation demand management can be encouraged through ordinances and policy.

Public Transportation Plan

As described in Chapter 3, the only intercity bus service in Umatilla County is provided by Greyhound bus lines which provides service along I-84, US 395, and OR 11 within Umatilla County. Greyhound has terminals located in Hermiston and Pendleton that connect these cities to each other and major population centers outside of the county. The Hermiston terminal has two departures heading southeast (with stops in Pendleton, La Grande, Boise, and Salt Lake City); three buses running west to Portland; and two buses heading north on US 395 to Pasco and Spokane daily. The Pendleton terminal has three departures southeast (with stops in La Grande, Boise and Salt Lake City); three departures west to Portland; and two departures north to Seattle via Walla Walla, Pasco, and Spokane daily.

Because of the small size of Pilot Rock, ridership demand is not high enough for Greyhound bus lines to feasibly provide service to the City. Pilot Rock does have a dial-a-ride type service available for the

transportation disadvantaged provided by the Pilot Rock Lions Club. This service provides door-to-door service initiated by a user's request for transportation.

Pilot Rock has no local fixed-route transit service at this time. The small size and low traffic volumes on city streets indicate that mass transit is not necessary or economically feasible at this time. The Transportation Planning Rule exempts cities with a population of less than 25,000 from developing a transit system plan or a transit feasibility study as part of their Transportation System Plans.

Rail Service Plan

Pilot Rock has no passenger rail service, but does have freight rail service. Until recently, AMTRAK service was available in Hermiston and Pendleton along the rail line that follows the I-84 corridor from Portland to Boise, Idaho and points east. Amtrak is currently experiencing a funding crisis. As a result, passenger service between Portland and Denver, including service to cities within Umatilla County, was discontinued in May 1997. This line serves only freight traffic now.

The Union Pacific Railroad right-of-way runs northeast to southwest into Pilot Rock's UGB and city limits stopping just north of the downtown area. While these lines are not active, it may be possible for rail service to be resumed at some future time. It is recommended that the City support the reactivation of these lines if market forces make such activity feasible in the future.

Air Service Plan

Pilot Rock does not have its own air service within the City. However, there are many airport facilities nearby. Eastern Oregon Regional Airport is located in Pendleton, approximately 20 miles north of Pilot Rock, and provides commercial air service. Hermiston Municipal Airport is located in Hermiston, approximately 45 miles northwest of Pilot Rock, and provides chartered flights. Other small nearby airports in the county include: Barrett Field northwest of Athena, the Pea Growers' Field south of Athena, and Curtis Airfield northwest of Pendleton. These airports are small, private, uncontrolled airstrips mainly used for crop dusting operations. Good access to these facilities (especially the Eastern Oregon Regional Airport) should be maintained.

Pipeline Service

There is one natural gas line serving Pilot Rock.

Water Transportation

Pilot Rock has no water transportation services.

TRANSPORTATION SYSTEM PLAN IMPLEMENTATION PROGRAM

Implementation of the Pilot Rock Transportation System Plan will require adoption of the amended City Comprehensive Plan and zoning and land division ordinances and preparation of a 20-year Capital Improvement Plan. These actions will enable Pilot Rock to address both existing and emerging transportation issues throughout the urban area in a timely and cost effective manner.

One part of the implementation program is the formulation of a 20-year Capital Improvement Plan (CIP). The purpose of the CIP is to detail what transportation system improvements will be needed as Pilot Rock grows and provide a process to fund and schedule the identified transportation system improvements. It is expected that the Transportation System Plan Capital Improvement Plan can be integrated into the existing city and county CIP and the ODOT STIP. This integration is important since the Transportation System Plan proposes that city, county, and state governmental agencies fund all or some of the transportation improvement projects.

Model policy and ordinance language that conforms with the requirements of the Transportation Planning Rule is included in Chapter 9. The proposed ordinance amendments will require approval by the City Council and those that affect the unincorporated urban area will also require approval and adoption by the Board of County Commissioners.

20-Year Capital Improvement Program

Table 7-7 summarizes the CIP and provides cost information. The cost estimates for all the projects listed on the CIP were prepared on the basis of 1998 dollars. These costs include design, construction, and some contingency costs. They are preliminary estimates and generally do not include right-of-way acquisition, water or sewer facilities, or adding or relocating public utilities. The following schedule is not a prioritized list and scheduled implementation of these projects is at the discretion of the City and/or county, depending upon jurisdiction.

Pilot Rock has identified a total of 6 projects in its CIP with a cost of \$309,900.

TABLE 7-7
CAPITAL IMPROVEMENT PROGRAM (1998 DOLLARS)

Project	Location /Description	Costs (\$ X 1,000)				Total
		City	County	State	Private	
1.	Extend North 6th St. to US 395.			\$130.0		\$130.0
4A..	Pave Hickory Street up to Fir Street	\$11.3				\$11.3
4B.	Pave Alder Street between 5th Street and US 395	\$62.2				\$62.2
4C.	Pave SW 4th Place and SW Cedar Street	\$25.4				\$25.4
3.	Replace vehicle bridge over East Birch Creek on alley roadway.	\$73.5				\$73.5
2.	Replace pedestrian bridge over West Birch Creek between Delwood Street and South 6th Street.	\$7.5				\$7.5
Total		\$179.9		\$130.0		309.9

CHAPTER 8: FUNDING OPTIONS AND FINANCIAL PLAN

The Transportation Planning Rule requires Transportation System Plans to evaluate the funding environment for recommended improvements. This evaluation must include a listing of all recommended improvements, estimated costs to implement those improvements, a review of potential funding mechanisms, and an analysis of existing sources' ability to fund proposed transportation improvement projects. Pilot Rock's TSP identifies 14 specific projects totaling over \$679,000 over the next 20 years. This section of the TSP provides an overview of Pilot Rock's revenue outlook and a review of some funding and financing options that may be available to the city of Pilot Rock to fund the improvements.

Pressures from increasing growth throughout much of Oregon have created an environment of estimated improvements that remain unfunded. Pilot Rock will need to work with Umatilla County and ODOT to finance the potential new transportation projects over the 20-year planning horizon. The actual timing of these projects will be determined by the rate of population and employment growth actually experienced by the community. This TSP assumes Pilot Rock will grow at a rate comparable to past growth, consistent with the county-wide growth forecast. If population growth exceeds this rate the improvements may need to be accelerated. Slower than expected growth will relax the improvement schedule.

HISTORICAL STREET IMPROVEMENT FUNDING SOURCES

In Oregon, state, county, and city jurisdictions work together to coordinate transportation improvements. Table 8-1 shows the distribution of road revenues for the different levels of government within the state by jurisdiction level. Although these numbers were collected and tallied in 1991, ODOT estimates that these figures accurately represent the current revenue structure for transportation-related needs.

TABLE 8-1
SOURCES OF ROAD REVENUES BY JURISDICTION LEVEL

Revenue Source	Jurisdiction Level			All Funds
	State	County	City	
State Road Trust	58%	38%	41%	48%
Local	0%	22%	55%	17%
Federal Road	34%	40%	4%	30%
Other	9%	0%	0%	4%
Total	100%	100%	100%	100%

Source: ODOT 1993 Oregon Road Finance Study.

At the state level, nearly half (48 percent in Fiscal Year 1991) of all road-related revenues are attributable to the state highway fund (state road trust), whose sources of revenue include fuel taxes, weight-mile taxes on trucks, and vehicle registration fees. As shown in the table, the state road trust is a considerable source of revenue for all levels of government. Federal sources (generally the federal highway trust account and federal forest revenues) comprise another 30 percent of all road-related revenue. The remaining sources of road-related revenues are generated locally, including property taxes, LIDs, bonds, traffic impact fees, road user taxes, general fund transfers, receipts from other local governments, and other sources.

As a state, Oregon generates 94 percent of its highway revenues from user fees, compared to an average of 78 percent among all states. This fee system, including fuel taxes, weight distance charges, and registration fees, is regarded as equitable because it places the greatest financial burden upon those who create the greatest need for road maintenance and improvements. Unlike many states that have indexed user fees to

inflation, Oregon has static road-revenue sources. For example, rather than assessing fuel taxes as a *percentage* of price per gallon, Oregon's fuel tax is a fixed amount (currently 24 cents) per gallon.

Transportation Funding in Umatilla County

Historically, sources of road revenues for Umatilla County have included federal grants, state revenues, intergovernmental transfers, interest from the working fund balance, and other sources. Transportation revenues and expenditures for Umatilla County are shown in Table 8-2 and Table 8-3.

TABLE 8-2
UMATILLA COUNTY TRANSPORTATION-RELATED REVENUES

	1992-1993 Actual	1993-1994 Actual	1994-1995 Actual	1995-1996 Actual	1996-1997 Budget	1997-1998 Budget
Beginning Balance	\$1,187,957	\$992,044	\$903,997	\$1,762,230	\$1,600,000	\$1,300,000
DMV License & Gas Tax Fees	\$2,956,777	\$3,145,649	\$3,258,762	\$3,356,616	\$3,400,000	\$3,400,000
Misc. State Receipts			\$635,655	\$222,990	\$209,000	\$219,000
National Forest Rental	\$1,061,341	\$589,248	\$534,150	\$189,902	\$180,000	\$180,000
Mineral Leasing 75%				\$125		
Misc. Federal Receipts	\$1,968	\$1,670	\$1,208	\$77,681		
Interest on Invested Funds	\$72,834	\$38,672	\$77,885	\$92,220	\$75,000	\$75,000
Refunds & Reimbursements		\$75		\$338		
Sale of Public Lands	\$20,144	\$14,363	\$5,443	\$102	\$15,000	\$5,000
Rentals/Sale of Supplies	\$15,318	\$16,565	\$51,748	\$74,498	\$45,000	\$27,000
BLM Maintenance Agreement		\$2,000				
Misc. Receipts-Local	\$26,662	\$102,916	\$143,691	\$48,997		
Service Center	\$46,996	\$55,961	\$53,361	\$61,189	\$58,500	\$64,000
Rural Address fund					\$30,000	
	\$5,389,996	\$4,959,163	\$5,665,900	\$5,886,887	\$5,612,500	\$5,270,000

Source: Umatilla County.

As shown in Table 8-2, revenues remained relatively stable (between a low of just under \$5 million in 1993-1994 to a high of nearly \$5.9 million in 1995-1996). Approximately \$3 million of the annual revenues come from the state highway fund, rising slightly from \$3 million in 1992-1993 to an estimated \$3.4 million in 1996-1997. A declining amount has come from Federal apportionment (mostly federal forest receipts). Twenty-five percent of federal forest revenue (the 25-percent fund) is returned to the counties based on their share of the total acreage of federal forests. Westside national forests in Oregon and Washington are subject to the Spotted Owl Guarantee, which limits the decline of revenues from these forests to 3 percent annually. Oregon forests under the Owl Guarantee include the Deschutes, Mount Hood, Rogue River, Siskiyou, Siuslaw, Umpqua, and Willamette national forests. Forest revenues distributed to Umatilla County are from the Umatilla and Whitman forests, not subject to the Owl Guarantee and, therefore, more difficult to predict. With a healthy working capital balance, the county has also been able to generate between \$40,000 and \$90,000 annually in interest on its invested funds.

TABLE 8-3
UMATILLA COUNTY TRANSPORTATION-RELATED EXPENDITURES

	1992-1993	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998
	Actual	Actual	Actual	Actual	Budget	Budget
Personal Services	\$1,908,211	\$1,878,969	\$1,956,968	\$2,077,603	\$2,260,676	\$2,304,704
Materials and Services	\$1,897,273	\$1,961,106	\$1,564,591	\$1,735,853	\$2,131,925	\$1,972,800
Capital Outlay	\$601,846	\$225,074	\$385,176	\$404,357	\$400,000	\$400,000
Contingency					\$568,840	\$334,224
Transfer to Road Improvement Fund					\$11,555	
Transfer to General Fund						\$58,272
	4,407,330	\$4,065,149	\$3,906,735	\$4,217,813	\$5,372,996	\$5,070,000

Source: Umatilla County.

As shown in Table 8-3, Umatilla County has spent between \$225,000 and \$600,000 annually in capital improvements. The county also transfers money to a road improvement fund for larger-scale capital improvements. The bulk of expenditures in the road fund are for personal services and materials and services relating to maintenance.

In addition to the road department fund, Umatilla County has a separate bicycle path fund. Its revenues and expenditure history are shown below in Table 8-4. Like the road fund, the bicycle path fund is developing a health working capital balance, supporting additional interest income, thereby reducing its dependence on the gas taxes collected through the state highway fund.

TABLE 8-4
UMATILLA COUNTY BICYCLE PATH FUND REVENUES AND EXPENDITURES

	1994-1995	1995-1996	1996-1997	1997-1998
	Actual	Actual	Budget	Budget
Beginning Fund Balance	\$230,059	\$260,652	\$299,775	\$349,775
Resources				
DMV License & Gas Tax Fees	\$32,917	\$32,946	\$34,000	\$34,000
Interest	\$13,073	\$16,251	\$16,000	\$18,000
	\$45,989	\$49,197	\$50,000	\$52,000
Expenditures				
Materials & Services	\$15,396		\$150,000	\$100,000
Capital Outlay				
	\$15,396	\$-	\$150,000	\$100,000

Source: Umatilla County.

Historical Revenues and Expenditures in the City of Pilot Rock

Revenues and expenditures for the city of Pilot Rock's street fund are shown in Table 8-5 and Table 8-6. Sources of revenues available for street operations and maintenance include the state highway fund, interest from the working capital balance, and grants for specific projects.

**TABLE 8-5
CITY OF PILOT ROCK STREET FUND REVENUES**

	1994-1995	1995-1996	1996-1997	1997-1998
Cash on Hand	\$30,549	\$57,638	\$17,900	\$24,000
Interest	\$1,605	\$1,737	\$1,000	\$1,000
Misc. Revenue	\$73	\$1,478		\$1,000
State Hwy Fund	\$69,428	\$71,156	\$73,800	\$73,000
Jobs Plus Program				\$1,500
NW Cedar Grant	\$12,500	\$12,500		
	\$83,606	\$86,871	\$74,800	\$76,500

Source: *The City of Pilot Rock*

As shown in Table 8-5, funds from the state highway fund provide a large proportion (over 90 percent excluding grant funds) of the revenues available to the city of Pilot Rock's street fund. The city of Pilot Rock has benefited from several recent grants from the Small Cities Allocation (SCA) Grant Program. The 1996-97 and 1997-98 proposed budgets anticipate the benefit of a \$25,000 SCA grant.

**TABLE 8-6
CITY OF PILOT ROCK STREET FUND EXPENDITURES**

	1994-1995	1995-1996	1996-1997	1997-1998
Personal Services	\$17,727	\$19,096	\$23,970	\$25,400
Materials and Services	\$38,062	\$96,834	\$54,684	\$50,700
Capital Outlay	\$728	\$10,659	\$11,046	\$14,500
	\$56,517	\$126,589	\$89,700	\$90,600

Source: *City of Pilot Rock*

Most of the street fund expenditures are for maintenance, with spending disaggregated to the following categories: personal services, materials and equipment, capital outlay and transfers. The largest categories have historically been personal services and materials and equipment. The capital outlay expenditures have been limited to the amounts available from grant funds. The street fund has also transferred \$2,000 annually for the last two years. In order to ensure conservative estimates, this analysis does assume grant funding will necessarily be available in future years, as shown in the 1996-97 and 1997-98. Instead, this analysis assumes that the amount available for transfers is equivalent to the amount available for new capital expenditures.

Transportation Revenue Outlook in the City of Pilot Rock

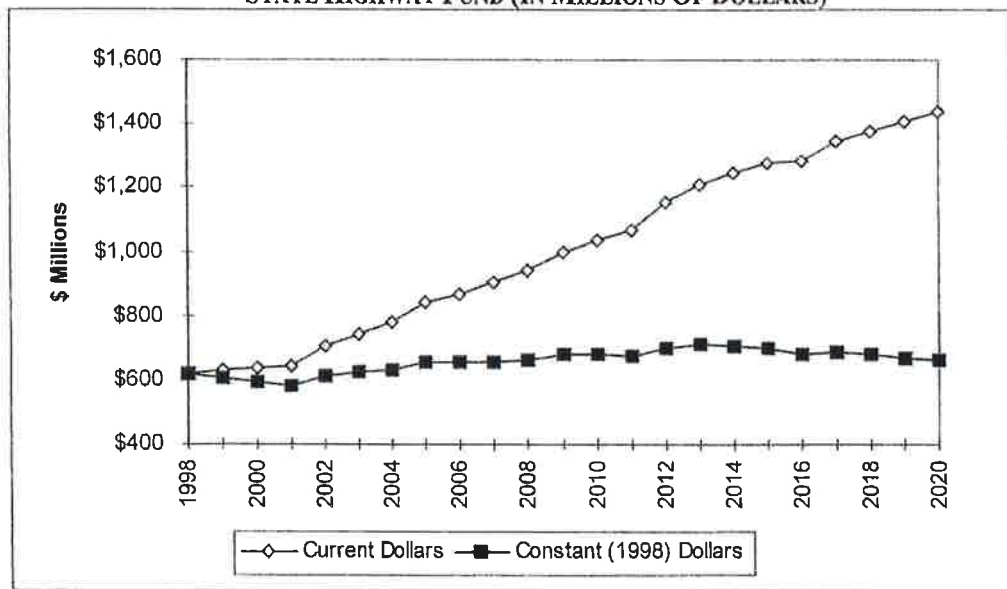
ODOT's policy section recommends certain assumptions in the preparation of transportation plans. In its *Financial Assumptions* document prepared in May 1998, ODOT projected the revenue of the state highway fund through year 2020. The estimates are based on not only the political climate, but also the economic structure and conditions, population and demographics, and patterns of land use. The latter is particularly important for state-imposed fees because of the goals in place under Oregon's Transportation Planning Rule (TPR) requiring a 10-percent reduction in per-capita vehicle miles of travel (VMT) in Metropolitan Planning Organizations (MPO) areas by year 2015, and a 20-percent reduction by year 2025. This requirement will affect the 20-year revenue forecast from the fuel tax. ODOT recommends the following assumptions:

- Fuel tax increases of one cent per gallon per year (beginning in year 2002), with an additional one cent per gallon every fourth year.

- Vehicle registration fees would be increased by \$10 per year in 2002, and by \$15 per year in year 2012.
- Revenues will fall halfway between the revenue-level generated without TPR and the revenue level if TPR goals were fully met.
- Revenues will be shared among the state, counties, and cities on a “50-30-20 percent” basis rather than the previous “60.05-24.38-15.17 percent” basis.
- Inflation occurs at an average annual rate of 3.6 percent (as assumed by ODOT).

Figure 8-1 shows the forecast in both current-dollar and inflation-deflated constant (1998) dollars. As highlighted by the constant-dollar data, the highway fund is expected to grow slower than inflation early in the planning horizon. until fuel-tax and vehicle-registration fee increases occur in year 2002, increasing to a rate somewhat faster than inflation through year 2015, continuing a slight decline through the remainder of the planning horizon.

FIGURE 8-1
STATE HIGHWAY FUND (IN MILLIONS OF DOLLARS)



Source: ODOT Financial Assumptions.

As the state highway fund is expected to remain a significant source of funding for Pilot Rock, the City is highly susceptible to changes in the state highway fund. As discussed earlier, funds from the state highway fund provide a large proportion (over 90 percent excluding grant funds) of the revenues available to the City of Pilot Rock’s street fund.

In order to analyze the City’s ability to fund the recommended improvements from current sources, DEA applied the following assumptions:

- ODOT state highway fund assumptions as outlined above.
- The state highway fund will continue to account for the majority of the City’s street fund.

- Interest and other local sources continue to provide stable revenue streams.
- The proportion of revenues available for capital expenditures for street improvements will remain a stable, but small, proportion of the state tax resources.

Applying these assumptions to the estimated level of the state highway fund resources, as recommended by ODOT, resources available to the Pilot Rock for all operations, maintenance, and capital outlay purposes are estimated at approximately \$67,000 to \$82,000 annually (in current 1998 dollars), as shown in Table 8-7.

**TABLE 8-7
ESTIMATED RESOURCES AVAILABLE TO CITY OF PILOT ROCK
FROM STATE HIGHWAY FUND, 1998 DOLLARS**

Year	Total Estimated Resources from State Highway Fund	Estimated Funds Available for Capital Outlay
1999	\$70,500	\$2,300
2000	\$68,900	\$2,300
2001	\$67,300	\$2,200
2002	\$71,300	\$2,300
2003	\$72,200	\$2,400
2004	\$73,200	\$2,400
2005	\$76,400	\$2,500
2006	\$75,800	\$2,500
2007	\$76,200	\$2,500
2008	\$76,500	\$2,500
2009	\$78,700	\$2,600
2010	\$78,600	\$2,600
2011	\$78,300	\$2,600
2012	\$81,400	\$2,700
2013	\$82,700	\$2,700
2014	\$82,000	\$2,700
2015	\$81,300	\$2,700
2016	\$79,000	\$2,600
2017	\$79,700	\$2,600
2018	\$78,700	\$2,600
2019	\$77,800	\$2,500
2020	\$76,800	\$2,500

The amount actually received from the state highway fund will depend on a number of factors, including:

- the actual revenue generated by state gasoline taxes, vehicle registration fees, and other sources; and
- the population growth in Pilot Rock (since the distribution of state highway funds is based on an allocation formula which includes population).

Based on the amount of resources historically available to fund capital improvements this analysis suggests that the City of Pilot Rock will have between \$2,200 and 2,700 available annually for capital improvements.

REVENUE SOURCES

In order to finance the recommended transportation system improvements requiring expenditure of capital resources, it will be important to consider a range of funding sources. Although the property tax has

traditionally served as the primary revenue source for local governments, property tax revenue goes into general fund operations, and is typically not available for road improvements or maintenance. Despite this limitation, the use of alternative revenue funding has been a trend throughout Oregon as the full implementation of Measures 5 and 47 have significantly reduced property tax revenues (see below). The alternative revenue sources described in this section may not all be appropriate in Pilot Rock; however, this overview is being provided to illustrate the range of options currently available to finance transportation improvements during the next 20 years.

Property Taxes

Property taxes have historically been the primary revenue source for local governments. However, property tax revenue goes into general fund operations, and is not typically available for road improvements or maintenance. The dependence of local governments on this revenue source is due, in large part, to the fact that property taxes are easy to implement and enforce. Property taxes are based on real property (i.e., land and buildings) which has a predictable value and appreciation to base taxes upon. This is as opposed to income or sales taxes, which can fluctuate with economic trends or unforeseen events.

Property taxes can be levied through: 1) tax base levies, 2) serial levies, and 3) bond levies. The most common method uses tax base levies, which do not expire and are allowed to increase by 6 percent per annum. Serial levies are limited by the amounts and times they can be imposed. Bond levies are for specific projects and are limited by time based on the debt load of the local government or the project.

The historic dependence on property taxes is changing with the passage of Ballot Measure 5 in the early 1990s. Ballot Measure 5 limits the property tax rate for purposes other than payment of certain voter-approved general obligation indebtedness. Under full implementation, the tax rate for all local taxing authorities is limited to \$15 per \$1,000 of assessed valuation. As a group, all non-school taxing authorities are limited to \$10 per \$1,000 of assessed valuation. All tax base, serial, and special levies are subject to the tax rate limitation. Ballot Measure 5 requires that all non-school taxing districts' property tax rate be reduced if together they exceed \$10 per \$1,000 per assessed valuation by the county. If the non-debt tax rate exceeds the constitutional limit of \$10 per \$1,000 of assessed valuation, then all of the taxing districts' tax rates are reduced on a proportional basis. The proportional reduction in the tax rate is commonly referred to as compression of the tax rate.

Measure 47, an initiative petition, was passed by Oregon voters in November 1996. It is a constitutional amendment that reduces and limits property taxes and limits local revenues and replacement fees. The measure limits 1997-98 property taxes to the lesser of the 1995-96 tax minus 10 percent, or the 1994-95 tax. It limits future annual property tax increases to 3 percent, with exceptions. Local governments' lost revenue may be replaced only with state income tax, unless voters approve replacement fees or charges. Tax levy approvals in certain elections require 50 percent voter participation.

The state legislature created Measure 50, which retains the tax relief of Measure 47 but clarifies some legal issues. This revised tax measure was approved by voters in May 1997.

The League of Oregon Cities (LOC) estimated that direct revenue losses to local governments, including school districts, will total \$467 million in fiscal year 1998, \$553 million in 1999, and increase thereafter. The actual revenue losses to local governments will depend on actions of the Oregon Legislature. LOC also estimates that the state will have revenue gains of \$23 million in 1998, \$27 million in 1999, and increase thereafter because of increased personal and corporate tax receipts due to lower property tax deduction.

Measure 50 adds another layer of restrictions to those which govern the adoption of tax bases and levies outside the tax base, as well as Measure 5's tax rate limits for schools and non-schools and tax rate exceptions for voter

approved debt. Each new levy and the imposition of a property tax must be tested against a longer series of criteria before the collectible tax amount on a parcel of property can be determined.

System Development Charges

System Development Charges (SDCs) are becoming increasingly popular in funding public works infrastructure needed for new local development. Generally, the objective of systems development charges is to allocate portions of the costs associated with capital improvements upon the developments, which increase demand on transportation, sewer or other infrastructure systems.

Local governments have the legal authority to charge property owners and/or developers fees for improving the local public works infrastructure based on projected demand resulting from their development. The charges are most often targeted towards improving community water, sewer, or transportation systems. Cities and counties must have specific infrastructure plans in place that comply with state guidelines in order to collect SDCs.

SDCs are collected when new building permits are issued. Transportation SDCs are based on trip generation of the proposed development. Residential calculations would be based on the assumption that a typical household will generate a given number of vehicle trips per day. Nonresidential use calculations are based on employee ratios for the type of business or industrial uses. The SDC revenues would help fund the construction of transportation facilities necessitated by new development.

State Highway Fund

Gas tax revenues received from the state of Oregon are used by all counties and cities to fund roads, and road construction and maintenance. In Oregon, the state collects gas taxes, vehicle registration fees, overweight/overheight fines and weight/mile taxes and returns a portion of the revenues to cities and counties through an allocation formula. Like other Oregon cities, the city of Pilot Rock uses its state gas tax allocation to fund street construction and maintenance.

Local Gas Taxes

The Oregon Constitution permits counties and incorporated cities to levy additional local gas taxes with the stipulation that the moneys generated from the taxes will be dedicated to road-related improvements and maintenance within the jurisdiction. At present, only a few local governments (including the cities of Woodburn and The Dalles and Multnomah and Washington counties) levy a local gas tax. The city of Pilot Rock may consider raising its local gas tax as a way to generate additional road improvement funds. However, with relatively few jurisdictions exercising this tax, an increase in the cost differential between gas purchased in Pilot Rock and gas purchased in neighboring communities may encourage drivers to seek less expensive fuel elsewhere. Any action will need to be supported by careful analysis to minimize the unintended consequences of such an action.

Vehicle Registration Fees

The Oregon vehicle registration fee is allocated to the state, counties and cities for road funding. Oregon counties are granted authority to impose a vehicle registration fee covering the entire county. The Oregon Revised Statutes would allow Umatilla County to impose a biannual registration fee for all passenger cars licensed within the county. Although both counties and special districts have this legal authority, vehicle

registration fees have not been imposed by local jurisdictions. In order for a local vehicle registration fee program to be viable in Umatilla County, all the incorporated cities and the county would need to formulate an agreement which would detail how the fees would be spent on future road construction and maintenance.

Local Improvement Districts

The Oregon Revised Statutes allow local governments to form Local Improvement Districts (LIDs) to construct public improvements. LIDs are most often used by cities to construct localized projects such as streets, sidewalks or bikeways. The statutes allow formation of a district by either the city government or property owners. Cities that use LIDs are required to have a local LID ordinance that provides a process for district formation and payback provisions. Through the LID process, the cost of local improvements is generally spread out among a group of property owners within a specified area. The cost can be allocated based on property frontage or other methods such as traffic trip generation. The types of allocation methods are only limited by the Local Improvement Ordinance. The cost of LID participation is considered an assessment against the property which is a lien equivalent to a tax lien. Individual property owners typically have the option of paying the assessment in cash or applying for assessment financing through the City. Since the passage of Ballot Measure 5, cities have most often funded local improvement districts through the sale of special assessment bonds.

GRANTS AND LOANS

There are a variety of grant and loan programs available, most with specific requirements relating to economic development or specific transportation issues, rather than for the general construction of new streets. Many programs require a match from the local jurisdiction as a condition of approval. Because grant and loan programs are subject to change and statewide competition, they should not be considered a secure long-term funding source. Most of the programs available for transportation projects are funded and administered through ODOT and/or the Oregon Economic Development Department (OEDD). Some programs that may be appropriate for the city of Pilot Rock are described below. The primary contact for information on the following programs is ODOT Region 5, which can be reached at (541) 963-3177.

Bike-Pedestrian Grants

By law (ORS 366.514), all road, street or highway construction or reconstruction projects must include facilities for pedestrians and bicyclists, with some exceptions. ODOT's Bike and Pedestrian Program administers two programs to assist in the development of walking and bicycling improvements: local grants, and Small-Scale Urban Projects. Cities and counties with projects on local streets are eligible for local grant funds. An 80 percent state/20 percent local match ratio is required. Eligible projects include curb extensions, pedestrian crossings and intersection improvements, shoulder widening and restriping for bike lanes. Projects on urban state highways with little or no right of way taking and few environmental impacts are eligible for Small-Scale Urban Project Funds. Both programs are limited to projects costing up to \$100,000. Projects that cost more than \$100,000, require the acquisition of ROW, or have environmental impacts should be submitted to ODOT for inclusion in the STIP.

Access Management

The Access Management Program sets aside approximately \$500,000 a year to address access management issues. One primary component of this program is an evaluation of existing approach roads to state highways.

These funds are not committed to specific projects, and priorities and projects are established by an evaluation process.

Enhancement Program

This federally funded program earmarks \$8 million annually for projects in Oregon. Projects must demonstrate a link to the intermodal transportation system, compatibility with approved plans, and local financial support. A 10.27 percent local match is required for eligibility. Each proposed project is evaluated against all other proposed projects in its region. Within the five Oregon regions, the funds are distributed on a formula based on population, vehicle miles traveled, number of vehicles registered and other transportation-related criteria. The solicitation for applications was mailed to cities and counties the last week of October 1998. Local jurisdictions have until January 1999 to complete and file their applications for funding available during the 2000-2003 fiscal years that begin October 1999.

Highway Bridge Rehabilitation or Replacement Program

The Highway Bridge Rehabilitation or Replacement Program (HBRR) provides federal funding for the replacement and rehabilitation of bridges of all functional classifications. A portion of the HBRR funding is allocated for the improvement of bridges under local jurisdiction. A quantitative ranking system is applied to the proposed projects based on sufficiency rating, cost factor, and load capacity. They are ranked against other projects statewide, and require state and local matches of 10 percent each. It includes the Local Bridge Inspection Program and the Bridge Load Rating Program.

Transportation Safety Grant Program

Managed by ODOT's Transportation Safety Section (TSS), this program's objective is to reduce the number of transportation-related accidents and fatalities by coordination a number of statewide programs. These funds are intended to be used as seed money, funding a program for three years. Eligible programs include programs in impaired driving, occupant protection, youth, pedestrian, speed, enforcement, bicycle and motorcycle safety. Every year, TSS produces a Highway Safety Plan that identifies the major safety programs, suggests countermeasures to existing safety problems, and lists successful projects selected for funding, rather than granting funds through an application process.

Federal Transit Administration (FTA) Section 5311-Non-urbanized Area Formula Program

Section 5311 is a federally sponsored program for general public transit services in small urban and rural areas. It supports both capital and operation needs. The ODOT Public Transit Division distributes these funds. In FY00, the cities of Pendleton and Milton-Freewater received these funds to support transportation programs for the general public. The city of Pilot Rock would be eligible for these funds if it implemented intercity service or intracity services open to the general public. The recipient of these funds must provide matching funds of up to 50 percent for operating uses and up to 20 percent for capital expenses.

Section 5311(f) – Part of 5311 funds is allocated to intercity services. Intercity transit services connect communities to rail, bus and air hubs. These funds can be used for both capital and operating expenses. Local revenues must match these funds. Match requirements are the same as those for 5311 funds.

Surface Transportation Program (STP) Funds

TEA-21, the Federal Transportation Efficiency Act for the 21st Century, that funds programs for highways and transit, permits surface transportation program funding flexibility between modes. This gives the state more latitude in selecting the modal alternatives that would best address local congestion problems. STP funds are generally limited to capital projects with a few exceptions. In non-urbanized areas ODOT has the responsibility of allocating these funds. In Pilot Rock, ODOT Region 5 makes funding decisions with public input.

Department of Labor Welfare-to-Work Program

The US Department of Labor provides grants to communities to give transitional assistance to move welfare recipients into unsubsidized employment. One of the areas applicants are encouraged to consider is the development of responsive transportation systems to move people to work or to career training. These grants must serve at least 100 welfare recipients. The Department of Labor expects the grants to range from one million to five million dollars over a period of three years. Applications must be a coordinated effort between transportation providers and Oregon Adult and Family Services. The funding can be used for capital and operating expenses and will cover up to 50 percent of the cost of a program.

ODOT has submitted a grant application for funding for Oregon programs. ODOT identified the Bend/Redmond area as the first demonstration program. Other areas of the state may be eligible after that. To be eligible for this funding, it is essential that communities bring together local ODOT staff, transit providers and AFS staff to begin the coordination process.

FTA Section 5310 Discretionary Grants

This program funds vehicles and other capital projects for programs that serve elderly and disabled people. In FY99 the city of Pendleton received \$36,000 to purchase a new vehicle.

Special Transportation Fund

The Special Transportation Fund (STF) awards funds to maintain, develop, and improve transportation services for people with disabilities and people over 60 years of age. Financed by a two-cent tax on each pack of cigarettes sold in the state, the annual distribution is approximately \$5 million. Three-quarters of these funds are distributed on a per-capita formula to mass transit districts, transportation districts, where such districts do not exist, and counties. The remaining funds are distributed on a discretionary basis.

County Allotment Program

The County Allotment Program distributes funds to counties on an annual basis; the funds distributed in this program are in addition to the regular disbursement of state highway fund resources. The program determines the amount of total revenue available for roads in each county and the number of road miles (but not lane miles) of collectors and arterials under each county's jurisdiction. Using these two benchmarks, a "resource-per-equivalent" ratio is calculated for each county. Resources from the \$750,000 program are provided to the county with the lowest resource-per-equivalent road-mile ratio until they are funded to the level of the next-lowest county. The next-lowest county is then provided resources until they are funded to the level of the third-lowest county, and so on, until the fund is exhausted.

Immediate Opportunity Grant Program

The Oregon Economic Development Department (OEDD) and ODOT collaborate to administer a grant program designed to assist local and regional economic development efforts. The program is funded to a level of approximately \$7 million per year through state gas tax revenues. The following are primary factors in determining eligible projects:

- Improvement of public roads.
- Inclusion of an economic development-related project of regional significance.
- Creation or retention of primary employment.
- Ability to provide local funds (50/50) to match grant.
- Improvement to the quality of the community.

The maximum amount of any grant under the program is \$500,000. Local governments that have received grants under the program include Washington County, Multnomah County, Douglas County, the city of Hermiston, port of St. Helens, and the city of Newport.

Oregon Special Public Works Fund

The Special Public Works Fund (SPWF) program was created by the 1995 State Legislature as one of several programs for the distribution of funds from the Oregon Lottery to economic development projects in communities throughout the state. The program provides grant and loan assistance to eligible municipalities primarily for the construction of public infrastructure which support commercial and industrial development that result in permanent job creation or job retention. To be awarded funds, each infrastructure project must support businesses wishing to locate, expand, or remain in Oregon. SPWF awards can be used for improvement, expansion, and new construction of public sewage treatment plants, water supply works, public roads, and transportation facilities.

While SPWF program assistance is provided in the form of both loans and grants, the program emphasizes loans in order to assure that funds will return to the state over time for reinvestment in local economic development infrastructure projects. Jurisdictions that have received SPWF funding for projects that include some type of transportation-related improvement include the cities of Baker City, Bend, Cornelius, Forest Grove, Madras, Portland, Redmond, Reedsport, Toledo, Wilsonville, Woodburn, and Douglas County.

Oregon Transportation Infrastructure Bank

The Oregon Transportation Infrastructure Bank (OTIB) program is a revolving loan fund administered by ODOT to provide loans to local jurisdictions (including cities, counties, special districts, transit districts, tribal governments, ports, and state agencies). Eligible projects include construction of federal-aid highways, bridges, roads, streets, bikeways, pedestrian accesses, and right of way costs. Capital outlays such as buses, light-rail cars and lines, maintenance yards and passenger facilities are also eligible.

ODOT FUNDING OPTIONS

The state of Oregon provides funding for all highway related transportation projects through the Statewide Transportation Improvement Program (STIP) administered by the Oregon Department of Transportation. The STIP outlines the schedule for ODOT projects throughout the state. The STIP, which identifies projects for a three-year funding cycle, is updated on an annual basis. Starting with the 1998 budget year, ODOT will then identify projects for a four-year funding cycle. In developing this funding program, ODOT must verify that the identified projects comply with the Oregon Transportation Plan (OTP), ODOT Modal Plans, Corridor Plans, local Comprehensive Plans, and TEA-21 planning requirements. The STIP must fulfill federal planning requirements for a staged, multi-year, statewide, intermodal program of transportation projects. Specific transportation projects are prioritized based on federal planning requirements and the different state plans. ODOT consults with local jurisdictions before highway related projects are added to the STIP.

The highway-related projects identified in Pilot Rock's TSP will be considered for future inclusion on the STIP. The timing of including specific projects will be determined by ODOT based on an analysis of all the project needs within Region 5. The city of Pilot Rock, Umatilla County, and ODOT will need to communicate on an annual basis to review the status of the STIP and the prioritization of individual projects within the project area. Ongoing communication will be important for the city, county, and ODOT to coordinate the construction of both local and state transportation projects.

ODOT also has the option of making some highway improvements as part of their ongoing highway maintenance program. Types of road construction projects that can be included within the ODOT maintenance programs are intersection realignments, additional turn lanes, and striping for bike lanes. Maintenance related construction projects are usually done by ODOT field crews using state equipment. The maintenance crews do not have the staff or specialized road equipment needed for large construction projects.

An ODOT funding technique that will likely have future application to Pilot Rock's TSP is the use of state and federal transportation dollars for off-system improvements. Until the passage and implementation of ISTEA, state and federal funds were limited to transportation improvements within highway corridors. ODOT now has the authority and ability to fund transportation projects that are located outside the boundaries of the highway corridors. The criteria for determining what off-system improvements can be funded has not yet been clearly established. It is expected that this new funding technique will be used to finance local system improvements that reduce traffic on state highways or reduce the number of access points for future development along state highways.

FINANCING TOOLS

In addition to funding options, the recommended improvements listed in this plan may benefit from a variety of financing options. Although often used interchangeably, the words financing and funding are not the same. Funding is the actual generation of revenue by which a jurisdiction pays for improvements, some examples include the sources discussed above: property taxes, SDCs, fuel taxes, vehicle registration fees, LIDs, and various grant programs. In contrast, financing refers to the collecting of funds through debt obligations.

There are a number of debt financing options available to the city of Pilot Rock. The use of debt to finance capital improvements must be balanced with the ability to make future debt service payments and to deal with the impact on its overall debt capacity and underlying credit rating. Again, debt financing should be viewed not as a source of funding, but as a time shifting of funds. The use of debt to finance these

transportation-system improvements is appropriate since the benefits from the transportation improvements will extend over the period of years. If such improvements were to be tax financed immediately, a large short-term increase in the tax rate would be required. By utilizing debt financing, local governments are essentially spreading the burden of the costs of these improvements to more of the people who are likely to benefit from the improvements and lowering immediate payments.

General Obligation Bonds

General obligation (GO) bonds are voter-approved bond issues, which represent the least expensive borrowing mechanism available to municipalities. GO bonds are typically supported by a separate property tax levy specifically approved for the purposes of retiring debt. The levy does not terminate until all debt is paid off. The property tax levy is distributed equally throughout the taxing jurisdiction according to assessed value of property. GO debts typically are used to make public improvement projects that will benefit the entire community.

State statutes require that the GO indebtedness of a city not exceed 3 percent of the real market value of all taxable property in the city. Since GO bonds would be issued subsequent to voter approval, they would not be restricted to the limitations set forth in Ballot Measures 5, 47, and 50. Although new bonds must be specifically voter approved, Measure 47 and 50 provisions are not applicable to outstanding bonds, unissued voter-approved bonds, or refunding bonds.

Limited Tax Bonds

Limited tax general obligation (LTGO) bonds are similar to GO bonds in that they represent an obligation of the municipality. However, a municipality's obligation is limited to its current revenue sources and is not secured by the public entity's ability to raise taxes. As a result, LTGO bonds do not require voter approval. However, since the LTGO bonds are not secured by the full taxing power of the issuer, the limited tax bond represents a higher borrowing cost than GO bonds. The municipality must pledge to levy the maximum amount under constitutional and statutory limits, but not the unlimited taxing authority pledged with GO bonds. Because LTGO bonds are not voter approved, they are subject to the limitations of Ballot Measures 5, 47, and 50.

Bancroft Bonds

Under Oregon Statute, municipalities are allowed to issue Bancroft bonds, which pledge the City's full faith and credit to assessment bonds. As a result, the bonds become general obligations of the City but are paid with assessments. Historically, these bonds provided a city with the ability to pledge its full faith and credit in order to obtain a lower borrowing cost without requiring voter approval. However, since Bancroft bonds are not voter approved, taxes levied to pay debt service on them are subject to the limitations of Ballot Measures 5, 47, and 50. As a result, since 1991, Bancroft bonds have not been used by municipalities that were required to compress their tax rates.

FUNDING REQUIREMENTS

Pilot Rock's TSP identifies both capital improvements and strategic efforts recommended during the next 20 years to address safety and access problems and to expand the transportation system to support a growing population and economy. The TSP identifies 6 projects, totaling an estimated \$309,900. One of the

projects, that affects traffic operations around US 395, has identified state funding for the recommended project. The balance of the projects are within the City's jurisdiction and will require the City to take the financial lead.

Estimated costs by project are shown in Table 8-8.

**TABLE 8-8
RECOMMENDED PROJECTS AND FINANCIAL RESPONSIBILITY**

Project Location /Description	Costs (\$ X 1,000)				Total
	City	County	State	Private	
1. Extend North 6th St. to US 395.			\$130.0		\$130.0
4A. Pave Hickory Street up to Fir Street	\$11.3				\$11.3
4B. Pave Alder Street between 5th Street and US 395	\$62.2				\$62.2
4C. Pave SW 4th Place and SW Cedar Street	\$25.4				\$25.4
3. Replace vehicle bridge over East Birch Creek on alley roadway.	\$73.5				\$73.5
2. Replace pedestrian bridge over West Birch Creek between Delwood	\$7.5				\$7.5
Total			\$130.0	\$	\$309.9
	\$179.9				

Notes:

(1) To be determined at a later time.

The city of Pilot Rock is expected to be able to fund projects of up to approximately \$52,800 over the 20-year planning horizon. Based on current revenue sources for the city of Pilot Rock and the improvements identified in this Transportation System Plan, the City would face a funding deficit of \$127,100, as shown in Table 8-9.

**TABLE 8-9
ESTIMATED CAPITAL FUNDING BALANCE**

	Amount
Capital Available from Existing Revenue Sources	\$52,800
Capital Needed to Fund Projects Identified as City-Funded Projects	\$179,900
Surplus (Deficit)	(\$127,100)

Given the existing cost estimates, the resources available as estimated in Table 6, and financial partners currently identified, Pilot Rock is expected to experience a funding deficit of over \$127,100 over the 20-year planning period. Some of the projects may be eligible for alternative funding sources. For example, one project serves to enhance the pedestrian connectivity of the City, making it potentially eligible for bike and pedestrian funding, as described earlier in this chapter., a pedestrian bridge over East Birch. Securing grant funding for this project, estimated to total \$7,500 would allow the city of Pilot Rock to implement these projects within the 20-year planning horizon. Additional analysis would be required to evaluate the feasibility of this funding option.

This Transportation System Plan identifies 6 projects recommended over the next 20 years. Based on existing revenue sources and the estimated costs to implement the improvements, the city of Pilot Rock is expected to experience a budget shortfall of over \$127,100 over the 20-year planning horizon. The City will need to work with Umatilla County and ODOT to explore alternative funding sources, including SDCs, bike and pedestrian grants, and other programs described in this chapter, to implement the recommended improvements.

CHAPTER 9: RECOMMENDED POLICIES AND ORDINANCES

In 1991, the Oregon Transportation Planning Rule was adopted to implement State Planning Goal 12 – Transportation (amended in May and September 1995). The Transportation Planning Rule requires counties and cities to complete a Transportation System Plan (TSP) that includes policies and ordinances to implement that plan. The city of Pilot Rock Comprehensive Plan, Zoning Ordinance, and Subdivision Ordinance was revised in 1986. The Transportation discussion in the Comprehensive Plan has not been significantly updated since the implementation of the Transportation Planning Rule. The City's ordinances also need updating to meet the requirements of the Transportation Planning Rule and this TSP.

ELEMENTS REQUIRED BY THE TRANSPORTATION PLANNING RULE

The applicable portion of the Transportation Planning Rule is found in Section 660-12-045: Implementation of the Transportation System Plan. In summary, the Transportation Planning Rule requires that local governments revise their land use regulations to implement the Transportation System Plan in the following manner:

- Amend land use regulations to reflect and implement the Transportation System Plan.
- Clearly identify which transportation facilities, services, and improvements are allowed outright, and which will be conditionally permitted or permitted through other procedures.
- Adopt land use or subdivision ordinance measures, consistent with applicable federal and state requirements, to protect transportation facilities, corridors and sites for their identified functions, that include the following topics:
 - ⇒ access management and control;
 - ⇒ protection of public use airports;
 - ⇒ coordinated review of land use decisions potentially affecting transportation facilities;
 - ⇒ conditions to minimize development impacts to transportation facilities;
 - ⇒ regulations to provide notice to public agencies providing transportation facilities and services of land use applications that potentially affect transportation facilities; and
 - ⇒ regulations assuring that amendments to land use applications, densities, and design standards are consistent with the Transportation System Plan.
- Adopt land use or subdivision regulations for urban areas and rural communities to provide safe and convenient pedestrian and bicycle circulation and bicycle parking, and to ensure that new development provides on-site streets and accessways that provide reasonably direct routes for pedestrian and bicycle travel.
- Establish street standards that minimize pavement width and total right-of-way.

These elements are discussed in the following sections, where they are grouped by similarity in terms of appropriate policy and ordinance.

APPROVAL PROCESSES FOR TRANSPORTATION FACILITIES

Section 660-12-045(1) of the Transportation Planning Rule requires that cities and counties amend their land use regulations to conform with the jurisdiction's adopted Transportation System Plan. This section of the Transportation Planning Rule is intended to clarify the approval process for transportation-related projects.

Recommended Policies for Approval Process

Policies should clarify the approval process for different types of projects. The following policies are recommended to be adopted in the Pilot Rock Comprehensive Plan:

- The Transportation System Plan is an element of the city of Pilot Rock Comprehensive Plan. It identifies the general location of transportation improvements. Changes in the specific alignment of proposed public road and highway projects that shall be permitted without plan amendment if the new alignment falls within a transportation corridor identified in the Transportation System Plan.
- Operation, maintenance, repair, and preservation of existing transportation facilities shall be allowed without land use review, except where specifically regulated.
- Dedication of right-of-way, authorization of construction and the construction of facilities and improvements for projects authorized in the Transportation System Plan, the classification of the roadway and approved road standards shall be allowed without land use review.
- For state projects that require an Environmental Impact Statement (EIS) or Environmental Assessment (EA), the draft EIS or EA shall serve as the documentation for local land use review, if local review is required.

Recommended Ordinances for Approval Process

Projects that are specifically identified in the Transportation System Plan and for which the jurisdiction has made all the required land use and goal compliance findings are permitted outright, subject only to the standards established by the Plan.

- A. However, a city may not allow outright an improvement that is included in the Transportation System Plan but for which no site-specific decisions have been made. Therefore, it is recommended that small jurisdictions review these transportation projects within the Urban Growth Boundary as regulated land use actions, using conditional use process.

PROTECTING EXISTING AND FUTURE OPERATION OF FACILITIES

Section 60-12-045(2) of the Transportation Planning Rule requires that jurisdictions protect future operation of transportation corridors. For example, an important arterial for through-traffic should be protected in order to meet the community's identified needs. In addition, the proposed function of a future roadway must be protected from incompatible land uses.

Other future transportation facilities that the city of Pilot Rock may wish to protect include the space and building orientation necessary to support future transit, and right-of-ways or other easements for accessways, paths, and trails.

Protection of existing and planned transportation systems can be provided by ongoing coordination with other relevant agencies, adhering to the road standards, and to the access management policies and ordinances suggested below. Comprehensive Plan Policies will be established by the City of Pilot Rock and incorporated into the Comprehensive Plan to protect existing and future operation of transportation facilities.

Recommended Access Control Ordinances

Appropriate provisions to provide access management should be included in a revised Section 3.94 of the City of Pilot Rock Zoning Ordinance.

PROCESS FOR COORDINATED REVIEW OF LAND USE DECISIONS

- A lack of coordination between state and local decision processes can result in costly delays and changes in public road and highway projects, as well as some maintenance and operation activities. Section 660-12-045(2)(d) of the Transportation Planning Rule requires that jurisdictions develop a process for the coordinated review of land use decisions affecting transportation facilities. .

Recommended Process for Applying Conditions to Development Proposals

Section 660-12-045(2)(e) of the Transportation Planning Rule requires that jurisdictions develop a process to apply conditions to development proposals in order to minimize impacts on transportation facilities.

The site plan review process is a useful tool for a small jurisdiction. The city of Pilot Rock may want to amend its site plan review process so that it requires applicants to provide data on the potential traffic impacts of a project through a traffic impact study or, at least, an estimation of the number of trips expected to be generated. Recommended language to be included under site plan criteria is as follows:

- *The proposed use shall not impose an undue burden on the public transportation system. For developments that are likely to generate more than 400 average daily motor vehicle trips (ADTs), the applicant shall provide adequate information, such as a traffic impact study or traffic counts, to demonstrate the level of impact to the surrounding street system. The developer shall be required to mitigate impacts attributable to the project.*
- *The determination of impact or effect and the scope of the impact study should be coordinated with the provider of the affected transportation facility.*

If the city of Pilot Rock decides to implement a Site Plan review process, conditions such as the following may be included in the ordinance, to be applied in the event that a proposed project is demonstrated to have potentially adverse effects on the transportation system. These are additional to the conditions imposed by the recommended Access Management Ordinance included previously.

- *Dedication of land for streets, transit facilities, sidewalks, bikeways, paths, or accessways shall be required where the existing transportation system will be impacted by or is inadequate to handle the additional burden caused by the proposed use.*

- *Improvements such as paving, curbing, installation or contribution to traffic signals, construction of sidewalks, bikeways, accessways, paths, or streets that serve the proposed use where the existing transportation system may be burdened by the proposed use.*

Recommended Regulations to Provide Notice to Public Agencies

Review of land use actions is typically initiated by a notice. This process is usually defined by a procedures ordinance or noticing policy. This ordinance or policy should be amended to provide for notice to ODOT regarding any land use action on or adjacent to US 395. This provision should be included in Article 12: Administrative Provisions of the Pilot Rock Zoning Ordinance. Similarly, all actions by the City potentially affecting a county road should provide notice to Umatilla County.

Information that should be conveyed to reviewers includes:

- *Project location.*
- *Proposed land use action.*
- *Location of project access point(s).*

Recommended Regulations to Assure that Amendments are Consistent with the Transportation System Plan

Section 660-12-045(2)(g) of the Transportation Planning Rule requires that jurisdictions develop regulations to assure that all development proposals, plan amendments, or zone changes conform with the Transportation System Plan. This requirement can be addressed by adding a policy to the Comprehensive Plan, as follows:

- *All development proposals, plan amendments, or zone changes shall conform with the adopted Transportation System Plan.*

Within the zoning ordinance, development proposals can be addressed through site plan review, discussed above. Zone changes and plan amendments can be partially addressed by the following language:

- *The applicant must show that the proposed change conforms with the Comprehensive Plan.*

The following statements should be added to the local ordinance and policy language governing zone changes and plan amendments:

- A. *A plan or land use regulation amendment significantly affects a transportation facility if it:*
 1. *Changes the functional classification of an existing or planned transportation facility;*
 2. *Changes standards implementing a functional classification system;*
 3. *Allows types or levels of land use that would result in levels of travel or access that are inconsistent with the functional classification of a transportation facility; or*

4. *Would reduce the level of service of the facility below the minimum acceptable level identified in the Transportation System Plan.*
- B. *Amendments to the Comprehensive Plan and land use regulations which significantly affect a transportation facility shall assure that allowed land uses are consistent with the function, capacity, and level of service of the facility identified in the Transportation System Plan. This shall be accomplished by one of the following:*
1. *Limiting allowed land uses to be consistent with the planned function of the transportation facility.*
 2. *Amending the Transportation System Plan to ensure that existing, improved, or new transportation facilities are adequate to support the proposed land uses consistent with the requirement of the Transportation Planning Rule; or*
 3. *Altering land use designations, densities, or design requirements to reduce demand for automobile travel and meet travel needs through other modes.*

SAFE AND CONVENIENT PEDESTRIAN AND BICYCLE CIRCULATION

Bicycling and walking are often the most appropriate mode for short trips. Especially in small cities where the downtown area is compact, walking and bicycling can replace short auto trips, reducing the need for construction and maintenance of new roads. However, the lack of safe and convenient bikeways and walkways can be a strong discouragement to use these mode choices. The Transportation Planning Rule (660-12-045(3)) requires that urban areas and rural communities plan for bicycling and walking as part of the overall transportation system.

Recommended Ordinances for Bicycle and Pedestrian Circulation and Access

Sections 660-12-045(3)(b), (c), and (d) of the Transportation Planning Rule deals with providing facilities for safe and convenient pedestrian and bicycle circulation and access, both within new residential and commercial development, and on public streets. In order for walking and bicycling to be viable forms of transportation, especially in smaller cities where they can constitute a significant portion of local trips, the proper facilities must be supplied. In addition, certain development design patterns, such as orienting commercial uses to the street and placing parking behind the building, make a commercial district more accessible to non-motorized transportation and to existing or future transit.

- A. The Transportation Planning Rule specifies that, at a minimum, sidewalks and bikeways be provided along arterials and collectors in urban areas. Separate bicycle and pedestrian facilities should be provided where these would safely minimize trips distances by providing a “short cut.” Small cities should enhance existing ordinances by including language, additions and recommendations. The recommendations should be placed within the appropriate section of the Pilot Rock zoning ordinance (Section 1.5) or subdivision ordinance (Section 1.13).

If the city of Pilot Rock decides to implement a Site Plan review process, it should include a requirement to show the design and location of bicycle parking and bicycle and pedestrian circulation elements such as accessways and walkways.

APPENDIX A

Pilot Rock Plans

PILOT ROCK PLANS

Pilot Rock Comprehensive Plan

The Pilot Rock Comprehensive Plan was adopted in 1978, and amended in 1986. The plan provides goals and policies for guiding the future growth and development of the city. Two of the city's 13 goals strongly impact the development of the Transportation System Plan-- Goal K: Transportation and Goal J: Public Facilities and Services.

Goal K: Transportation

To provide and encourage a safe, convenient and economic transportation system.

Policies

1. To repave city streets and provide curbs and sidewalks as resources are available.
2. To encourage development and use of alternate means of transportation to the private automobile.
3. To work with ODOT to minimize conflicts between through and local traffic on US Highway 395, to reduce traffic hazards and expedite the flow of traffic by limiting access to and from the highway within the Urban Growth Area, and planning for adequate access to property adjacent to the highway.
4. To development of good transportation linkages (vehicular, pedestrian, bicycle, etc.) between residential areas and major activity centers.
5. To encourage the continuing availability of rail transportation linkages to mainline services. (Note: There is no active rail service to Pilot Rock at this time.)
6. To work with Umatilla County to develop joint policies concerning local roads and streets within the Urban Growth Boundary.
7. To adopt the recommendation in the Oregon Department of Transportation Six-Year Highway Improvement Plan that occurs within the Urban Growth Boundary.

Goal J: 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 development.

Applicable Policies

7. To develop, maintain, update, and expand police and fire services, streets and sidewalks, water and sewer systems, and storm drains as necessary to provide adequate facilities and services to the community.

Pilot Rock Technical Report

The Pilot Rock Technical Report offers background information for the city regarding the natural environment, the socioeconomic environment (including population indicators) and establishment of the Urban Growth Boundary (UGB). The report contains road classifications for roadways through the city. The classifications are listed in the Appendix: Table X: 1997 Major Street Inventory. This report was last revised in 1986. Therefore, much of the data is now outdated.

Key finding regarding transportation facilities include the following:

- Approximately 80 percent of Pilot Rock's existing streets are paved. These streets are mainly paved to 20 feet and a few major collector streets are paved to 24 foot widths.
- There are few existing curbs or sidewalks in Pilot Rock. The ones which do exist consist mainly of short lengths of the downtown section Highway 395.
- The major road access provided to Pilot Rock is through US Highway 395. Two county roads also access the areas: County Road # 1375 and # 1386.
- The roadways allow easy access to highway transportation facilities which link the city with regional production, distribution, and marketing centers.

The development of Pilot Rock is constricted by natural hazards. Pilot Rock is situated at the confluence of three creeks. East and West Birch Creek come together just north of the downtown area and form Birch Creek. Also, Wegner Creek flows into East Birch Creek near the southern city limits. The floodplains and natural habitats associated with the creeks has limited development. The city has zoned much of the area for permanent open space.

- The basalt rock formation on the west side of town has steep slopes which constrain development.

Pilot Rock Subdivision Ordinance

The City of Pilot Rock Subdivision Ordinance was adopted in 1986. It regulates all subdivisions and partitions of lands, within the city limits. (Umatilla County is responsible for regulating subdivision and partitions outside of the city limits but within the urban growth boundary. However, the city reviews and comments on all plans, plats, or maps for those areas.) It also regulates the construction of new or undeveloped streets within the city and urban growth boundary.

The ordinance explains the Pilot Rock street classifications. The different streets are defined as:

Alley: A narrow street through a block primarily for vehicular service access to the back or side of properties otherwise abutting on another street.

Arterial: A street of considerable continuity which is primarily a traffic artery for travel between large areas.

Collector: A street supplementary to the arterial street system and a means of travel between this system and smaller areas, used to some extent for through traffic and to some extent for access to abutting properties.

Cul-de-sac: A short street having one end to traffic and being terminated by a vehicle turn-around.

Local Street: A street intended primarily for access to abutting properties.

Marginal Access Street: A local street parallel and adjacent to an arterial street providing access to abutting properties, but protected from through traffic.

The Ordinance lists general requirements and design standards for streets. General requirements include the frontage requirements, grading, topography and arrangement of streets, road names, sign requirements, and street light requirements. Design standards include widths for rights-of-way, pavement, grade, speed, and sidewalks as follows:

ROAD DESIGN STANDARDS - BUSINESS/INDUSTRIAL					
Road Classification	Minimum Right-of-way	Minimum Surface Width	Maximum Grade	Speed	Sidewalks
Arterial Street	100 ft	48 ft	5 %	45 mph	Both sides 6 ft
Collector Street	70 ft	44 ft	7 %	40 mph	Both sides 6 ft
Local Street	60 ft	38 ft	8 %	30 mph	Both sides 6 ft
Alleys	24 ft	24 ft	nl	nl	nl

nl - no standard listed

ROAD DESIGN STANDARDS - RESIDENTIAL					
Road Classification	Minimum Right-of-way	Minimum Surface Width	Maximum Grade	Speed	Sidewalks
Arterial Street	80 ft	44 ft	8 %	40	Both sides 4 ft
Collector Street	60 ft	38 ft	10 %	35	Optional*
Local Street	50 ft	38 ft	12 %	25	Optional*
Alleys	20 ft	20 ft	nl	nl	nl

nl - no standard listed

* Sidewalks may be required by the City Council on these streets.

Subdivisions are required to provide frontage on and access from an existing street. Streets shall be improved to City, County or State standards. Sidewalks may be required at the discretion of the City Council on local or collector residential streets.

Pedestrian accesses may be required by the City Council to facilitate pedestrian access from streets to schools, parks, playgrounds, or other nearby streets. These are perpetual unobstructed easements at least 20 feet in width. The City Council may also require installation of separate bicycle lanes within streets or on separate paths.

Pilot Rock Zoning Ordinance

The Pilot Rock Zoning Ordinance was adopted in 1986.

The purported purpose of Zoning Ordinance is as follows:

promoting the public health, safety, and welfare; to encourage the most appropriate use of property within the city; to stabilize and protect the value of property; to provide adequate light and air; to prevent overcrowding; to lessen traffic congestion; to facilitate adequate and economical provision for public improvements, all to implement the Comprehensive Plan of the City of Pilot Rock; to provide a method of administration and to provide penalties for violation of the provision herein.

The Ordinance contains 12 sections. The only section that applies directly to the transportation is the section on off-street parking and loading.

APPENDIX B
Major Streets Inventory

1997 MAJOR STREETS INVENTORY
Pilot Rock Transportation System Plan

Roadway Segment Location	Jurisdiction	Level of Importance	Speed Limit (mph)	Street Width (feet)	No. of Travel Lanes	Passing Lanes (direction)	Shoulders		On-Street Parking	Curbs	Sidewalks	Bikeway	1997 Pavement Condition*
							Width (feet)	Side					
Arterials													
US 395 (Pendleton-John Day Hwy)	State	Statewide	55	32	2	No	NA	NA	No	No	No	No	Fair
NE UGB limits to NE City Limits (MP 14.64)	State	Statewide	30-40	32	2	No	NA	NA	No	No	No	No	Fair
MP 14.64 to NE 4th Street	State	Statewide	25	48-56	4	No	NA	NA	No	No	No	No	Fair
NE 4th Street to Main Street to SW Birch St.	State	Statewide	25	32	2	No	NA	NA	East side	Both Sides	No	No	Fair
Main Street to 4th Place to SW Birch St.	State	Statewide	30	32	2	No	NA	NA	No	No	No	No	Fair
4th Place to SW UGB Limits to SW Birch Pl.	State	Statewide											
Major Collectors													
Alder Street	City	NA	25	18	2	No	NA	NA	No	No	No	No	Poor
NW 2nd Street to Main Street	City	NA	25	46	2	No	NA	NA	Yes	Yes	Both sides (1/2 block)	No	Fair
NW 2nd Street and Main Street	City	NA	25	24	2	No	NA	NA	No	No	No	No	Fair
US 395 junction to South UGB Limits	County	NA	25	30	2	No	NA	NA	No	No	No	Yes	Good (coverage in 1996)
Cedar Street/Hill Street	City	NA	25	28	2	No	NA	NA	No	No	No	No	Fair
2nd Street to Masonic Corporation Driveway	City	NA	25	70	2	No	NA	NA	diagonal	Yes	Both Sides	No	Fair
Circle Road	County	NA	25	28	2	No	NA	NA	No	No	No	No	Fair
Masonic Corp. Driveway to NW UGB Limits	County	NA	25	24	2	No	NA	NA	No	No	No	No	Fair
Main Street	City	NA	25	24	2	No	NA	NA	No	No	No	No	Fair
Alder Street to SW Birch Street	City	NA	25	18	2	No	NA	NA	No	No	No	No	Poor
5th Street	City	NA	25	22	2	No	NA	NA	No	No	No	No	Fair
Alder Street to Cherry Street	City	NA	25	24	2	No	NA	NA	No	No	No	No	Fair
Cherry Street to SE UGB City Limits	City	NA	25	24	2	No	NA	NA	No	No	No	No	Fair
County Road No. 1150 to 4th Street/Stewart Creek Road	County	NA	25	18	2	No	NA	NA	No	No	No	No	Poor
Elm Street to E UGB Limits	County	NA	25	22	2	No	NA	NA	No	No	No	No	Fair
Alder Street	City	NA	25	18	2	No	NA	NA	No	No	West Side	No	Poor
Main Street to 5th Street	City	NA	25	22	2	No	NA	NA	No	No	Both Sides (poor)	No	Fair
Minor Collectors													
SW 2nd Street	City	NA	25	22	2	No	NA	NA	No	No	No	No	Fair
SW Birch Street to Delwood Street	City	NA	25	22	2	No	NA	NA	No	No	No	No	Fair

1997 MAJOR STREETS INVENTORY														
Pilot Rock Transportation System Plan														
Roadway Segment Location	Jurisdiction	Level of Importance	Speed Limit (mph)	Street Width (feet)	No. of Travel Lanes	Passing Lanes (direction)	Width (feet)	Shoulders	Paving	On-Street Parking	Curbs	Sidewalks	Bikeway	1997 Pavement Condition*
Cherry Street NE 4th Street to SE 5th Street	City	NA	25	24	2	No	No	NA	NA	No	No	No	No	Poor
Dalwood Street SE 2nd to south end of street	City	NA	25	18	2	No	No	NA	NA	No	No	No	No	Fair
Elm Street NE 4th Street to US 395	City	NA	25	22	2	No	No	NA	NA	No	No	No	No	Fair

* Pavement condition information for arterials is from the 1997 ODOT Pavement Condition Report. Condition information for collectors is based on field survey conducted by DEA in November 1997.

APPENDIX C

Umatilla County Population Discussion

Umatilla County Population Discussion

METHODOLOGY AND DATA SOURCES

Population estimates and projections were developed from historical data, official annual estimates, official long-range forecasts, and an impact analysis of four major employers entering or expanding in western Umatilla County. Historical data are compiled as reported by the Census Bureau. Portland State University's Center for Population Research and Census developed annual population estimates for cities and counties for the purpose of allocating certain state tax revenues to cities and counties. The State of Oregon Office of Economic Analysis (OEA) provided long-term (through year 2040) state population forecasts, disaggregated by county, for state planning purposes.

The Office of Economic Analysis used business-cycle trends (as reflected by the Employment Department's employment forecasts) as the primary driver of population and employment for the short term. For the long term, the forecasts shift to a population-driven model, which emphasizes demographics of the resident population, including age and gender of the population, with assumptions regarding life expectancy, fertility rate, and immigration. DEA used a methodology based on OEA's county-distribution methodology in developing population and employment forecasts for each of the cities in Umatilla County. DEA calculated a weighted average growth rate for each jurisdiction (weighting recent growth more heavily than past growth) and combined this average growth rate with the projected county-wide growth rate. This methodology assumes convergence of growth rates because of the physical constraints of any area to sustain growth rates beyond the state or county average for long periods of time. These constraints include availability of land and housing, congestion, and other infrastructure limitations.

These preliminary forecasts were used as a basis for discussion with individuals who have local knowledge and expertise. The projections were then revised based on local input and analysis. One element that had a significant impact on the population analysis was the HUES (Hermiston, Umatilla, Echo, and Stanfield) Growth Impact Study, conducted by the Benkendorf Associates Corporation, Hobson Johnson & Associates, and Martin Davis Consulting, which quantifies the impact of the construction and operation of four major employers.

As required by state policy, this forecast is consistent with the State of Oregon Office of Economic Analysis forecast at the end of the 20-year planning period. Because of the impact of the four large employers, however, the growth of Umatilla County will occur faster in the beginning of the planning horizon, slowing to compensate near the end of the planning period.

These population and employment forecasts were developed to determine future transportation needs. The amount of growth, and where it occurs, will affect traffic and transportation facilities in the study area. This report is not intended to provide a

complete economic forecast or housing analysis, and it should not be used for any purpose other than that for which it was designed.

CURRENT POPULATION AND EMPLOYMENT LEVEL

Estimated at 65,500 in 1997, the population of Umatilla County has grown relatively rapidly since the 1990 Census, with an average annual growth rate of over one-and-one-half percent. The following table shows the estimated change in population for Umatilla County and the jurisdictions of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston for 1990 and 1996.

Umatilla County Population Level 1990 and 1996

	1990	1997	1990-1997 Change	
			Number	CAARG*
Umatilla County	59,249	65,500	6,251	1.4%
Adams	223	265	42	2.5%
Athena	997	1,120	123	1.7%
Echo	499	585	86	2.3%
Helix	150	190	40	3.4%
Pilot Rock	1,478	1,585	107	1.0%
Stanfield	1,568	1,770	202	1.7%
Ukiah	250	240	-10	-0.6%
Weston	606	680	74	1.6%

* *Compound Average Annual Rate of Growth*

Source: Portland State University Center for Population Research and Census.

Most of the jurisdictions in Umatilla County have grown at a healthy rate, comparable to the annual growth rate of 1.4 percent for the county overall. The smaller jurisdictions of Adams and Helix have grown at a slightly faster rate, starting from the smaller population bases of 223 (Adams) and 150 (Helix) in 1990.

Populations with Specific Transportation Needs

Certain populations have been identified as having more intensive transportation needs than the general population. These populations include people under the legal driving age, those under the poverty level, and those with mobility limitations.

As stated above, Portland State University's Center for Population and Census estimates the Umatilla County's population as 65,500 in 1997. The Center further estimates that 18,623 of these people, or about 28 percent of the population, is under the age of 18 and that 5,505 are under age 5. Because the purpose of this analysis is to determine the number of people with specific transportation needs, DEA used PSU's age disaggregation to estimate that 16,617 people are under 16, the legal driving age in Umatilla County.

According to the 1990 Census, 16.5 percent of the 57,046 persons living in Umatilla County (for whom poverty status is determined) were below poverty level. Poverty statistics are based on a threshold of nutritionally-adequate food plans by the Department of Agriculture for the specific size of the family unit in question. The distribution of the population below poverty level shows that a larger proportion of younger persons than older populations are affected by this indicator, as shown in the following table.

**Poverty Status
Umatilla County--1990 Census**

	Below Poverty Level			Total*	Percent of Total Population Below Poverty
	Male	Female	Total Below Poverty Level		
11 and under	1,408	1,175	2,583	10,929	23.6%
12 to 17	481	517	998	5,223	19.1%
18 and over	2,300	3,538	5,838	40,894	14.3%
Total	4,189	5,230	9,419	57,046	16.5%

* For whom poverty status is determined.

Source: U.S. Census Bureau.

The Census Bureau reports that 3.3 percent of the population 16 and older had a mobility limitation in 1990. Persons were identified as having a mobility limitation if they had a health condition (physical and/or mental) that lasted for six or more months and which made it difficult to go outside the home alone. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Using the proportion of the population with mobility limitations and below the poverty level¹ in 1990, DEA estimated the number of people with specific transportation needs in 1996. The following table shows that an estimated 34.8 percent of the population may have specific transportation needs. (There is likely to be some overlap between the 3.3 percent of the population with mobility limitations and the 14.5 percent below the poverty level; therefore, the sum of the figures may overstate the proportion of the population with specific transportation needs.)

**Estimated Population with Specific Transportation Needs
1996, Umatilla County**

	Percent of Total Population	Estimated Number
Persons between the ages of 5 and 15	17.0%	11,115
Persons 16 and older under Poverty Level	14.5%	9,480
Persons 16 and older with Mobility Limitation	3.3%	2,130
Total Specific Transportation Needs Population	34.8%	22,725

¹ DEA used the Census Bureau's age disaggregation to estimate that 10.7 percent of the population over the age of 16 was under the poverty level in 1990.

Source: U.S. Census Bureau.

Planning for the overall transportation system will need to consider the special needs of these populations.

HISTORICAL GROWTH

The population of Umatilla County has grown since the 1970s, with significantly slower growth in the 1980s, reflecting a general slowdown in the state's economy. Helix, Pilot Rock, and Weston actually experienced a net population loss between 1970 and 1990. The following table shows the population trend for Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston, and Umatilla County as a whole.

Umatilla County Historical Population Trend

	1970	1980	1985	1990	1995	1997	1970-1990 Change	
							Number	CAARG*
Umatilla County	44,923	58,855	60,000	59,249	65,200	65,500	14,326	1.4%
Adams	219	240	245	223	260	265	4	0.1%
Athena	872	965	955	997	1,080	1,120	125	0.7%
Echo	479	624	605	499	530	585	20	0.2%
Helix	152	155	155	150	170	190	(2)	(0.1%)
Pilot Rock	1,612	1,630	1,630	1,478	1,560	1,585	(134)	(0.4%)
Stanfield	891	1,568	1,660	1,568	1,700	1,770	677	2.9%
Ukiah	N.A.	249	230	250	270	240	N/A	N/A
Weston	660	719	730	606	655	680	(54)	(0.4%)

* Compound Average Annual Rate of Growth

Ukiah was incorporated in July 1972.

Source: Portland State University Center for Population Research and Census.

The number of people residing in Stanfield nearly doubled between 1970 and 1980. This population growth may have been fueled by some significant housing developments and the location of several food processing plants in Stanfield during this time.

POPULATION AND EMPLOYMENT FORECASTS

Umatilla County is expected to experience population gains for the next 20 years. Like much of rural Oregon, the economy of Umatilla County remains largely seasonal, with nearly one-quarter of all employment agriculture-based. Therefore, population increases are difficult to predict, and are not likely to be as stable as the forecasts appear to imply.

The State Office of Economic Analysis prepared long-term population projections by county. Based on these projections and the methodology described above, preliminary population forecasts for the jurisdictions of Adams, Athena, Echo, Helix, Pilot Rock, Stanfield, Ukiah, and Weston were developed in five-year increments.

An ad-hoc HUES (Hermiston, Umatilla, Echo, and Stanfield) Impact Planning Group was formed in early 1997 to lead cooperative efforts to address growth concerns in western Umatilla County arising from four major employers locating or expanding in the region. The HUES Growth Impact Study, conducted by the Benkendorf Associates Corporation, Hobson Johnson & Associates, and Martin Davis Consulting, quantifies the impact of the construction and operation of these four facilities. Employment impacts are translated into household and population impacts, and disaggregated across the four HUES communities, Pendleton, and rural Umatilla County.

Of these four employers (the Two Rivers Correctional Institution, the Umatilla Chemical Agent Disposal Facility, the Union Pacific Railroad Hinkle Locomotive Shop, and the Wal-Mart Distribution Center and Truck Maintenance Facility), only one (the Wal-Mart Distribution Center) had been announced and incorporated in the long-range population and employment forecast prepared by the Office of Economic Analysis. Because the Umatilla County site was selected as the location for the Wal-Mart Distribution Center in 1994, its impacts were already incorporated in the Office of Economic Analysis long-term population and employment forecast. Applying the HUES methodology, DEA, Inc. subtracted out the impact of the Wal-Mart Distribution Center, in order to identify the population impacts resulting from the three “big four” employers otherwise not accounted for in the OEA forecast.

HUES Population Impacts by Community
HUES Study "Scenario One" Less Wal-Mart Distribution Center

	Base Population	Population Impact		
	1996	2000	2005	2007
Hermiston	11,050	1,681	2,354	1,412
Umatilla	3,310	503	705	423
Echo*	530	81	113	68
Stanfield	1,755	267	374	224
HUES communities subtotal		2,531	3,545	2,128
Pendleton		223	313	188
Rural Umatilla County		223	313	188
Total Population Impact		2,978	4,171	2,503

* The HUES study estimates Echo's base population using utility hook-up data and a 2.5 average household size. However, this methodology yields a base-year estimate inconsistent with the "official" state estimate. As required by state policy, the Transportation System Plan uses the official state estimate as the base population. As appropriate, the TSP uses utility hook-up data as the base number of households.

Source: HUES Growth Impact Study and David Evans and Associates, Inc.

These estimated impacts were then applied to the original population forecast for Echo and Stanfield by the mathematical model. The resulting population forecast is shown in five-year increments in the table below.

Umatilla County Population Forecast

	1995	2000	2005	2010	2015	2017	1995-2000	1995-2017
							CAARG	CAARG
Umatilla County	65,200	72,800	77,000	78,300	79,500	80,073	2.2%	0.9%
Adams	260	270	280	290	300	310	0.7%	0.8%
Athena	1,080	1,160	1,210	1,270	1,330	1,360	1.4%	1.1%
Echo	530	610	640	650	660	660	2.9%	1.0%
Helix	170	190	210	220	230	230	2.7%	1.4%
Pilot Rock	1,560	1,580	1,600	1,610	1,640	1,650	0.3%	0.3%
Stanfield	1,700	2,020	2,130	2,290	2,430	2,490	3.5%	1.8%
Ukiah	270	290	310	320	340	340	1.6%	1.1%
Weston	655	690	700	710	720	730	1.0%	0.5%

Source: 1995 estimates developed by Portland State University Center for Population Research and Census; long-term County forecasts developed by State of Oregon Office of Economic Analysis; and Jurisdiction forecasts and intermediate County forecasts developed by David Evans and Associates, Inc.

Overall, Umatilla County is expected to experience healthy rates of population growth, averaging nearly one percent annually over the planning horizon. As shown in the table, the western portion of Umatilla County is expected to grow faster than the rest of Umatilla County, fueled by the four major employers. Of all jurisdictions included in this analysis, Stanfield is expected to grow the fastest, at an annual average of 3.5 percent at the beginning of the planning horizon, slowing somewhat, but still achieving a very rapid average annual rate of 1.8 percent for the 20-year planning period.

UMATILLA COUNTY PLANNING COMMISSION

December 15, 2016

Intergovernmental Agreements:

Updates to the current Joint Management Agreements (JMA) between Umatilla County and the City of Umatilla and City of Hermiston are presented for the Planning Commission's decision and recommendation to the County Board of Commissioners.

Umatilla County

Department of Land Use Planning



DIRECTOR
TAMRA
MABBOTT

LAND USE
PLANNING,
ZONING AND
PERMITTING

CODE
ENFORCEMENT

SOLID WASTE
COMMITTEE

SMOKE
MANAGEMENT

GIS AND
MAPPING

RURAL
ADDRESSING

LIAISON,
NATURAL
RESOURCES &
ENVIRONMENT

Memo

TO: Umatilla County Planning Commission

FROM: Carol Johnson, Senior Planner

CC: Tamra J. Mabbott, Planning Director
Byron Smith, City of Hermiston City Manager
Clint Spencer, City of Hermiston Planner
Ron Sivey, City of Hermiston Street Superintendent
Russell Pelleberg, City of Umatilla City Manager
Bill Searles, Umatilla City Planner
Doug Olsen, County Counsel
Tom Fellows, County Public Works Director

DATE: December 1, 2016

RE: December 15, 2016 Planning Commission Hearing
City of Hermiston & City of Umatilla JMA Amendments

Amendments proposed to the Joint Management Agreements (JMA) between Umatilla County, the City of *Umatilla*, and the City of Hermiston are attached for Commission review and consideration. The proposed amendments update JMA sections related to the transfer of County roads located within city limits and Urban Growth Boundary (UGB) areas. The attached maps of Hermiston and *Umatilla* illustrate the UGB areas and show county roads located within each city limits and UGB areas. Also of interest is a list of County Roads within City limits and UGB areas.

Furthermore, proposed amendments to the *Umatilla* JMA will authorize City to administer land use actions within the UGB. This transfer of responsibility will apply to all lands within the *Umatilla* UGB, including issuance of land use permits and approval of partitions and subdivisions.

These JMA intergovernmental agreements are two of 12 such agreements between Umatilla County and cities. Updates are warranted from time to time, in order to clearly establish protocol for land use coordination inside urban growth areas and, importantly, to facilitate the orderly transition of lands from rural to urban. For this effort, County and each City worked together on the proposed amendments. Not all proposed changes were captured in this update.

As part of this process, public works directors were involved, particularly relative to roads and access to roads. Compromise was an essential component of the road discussion. For example, County Public Works Director, Tom Fellows, promoted a minimum lineal distance for road transfer from $\frac{1}{2}$ mile to $\frac{1}{4}$ mile, while cities preferred the larger distance of $\frac{1}{2}$ mile. The county preference of $\frac{1}{4}$ mile is roughly the equivalent of 2 city blocks, which seemed a reasonable interval to consider in terms of maintenance equipment, etc. However, in deference to the cities, the existing $\frac{1}{2}$ mile was retained.

Action by the Planning Commission is a recommendation to the Board of County Commissioners. The JMA amendments are scheduled before the Board of Commissioners, Wednesday, January 18, 2017 at 10 a.m., Room #130 in the County Courthouse, 216 SE 4th Street, Pendleton, Oregon. Similarly, either concurrently or subsequent to the County's process the JMA amendments will proceed through the respective city approval processes.

UMATILLA

UMATILLA COUNTY
ORDINANCE #96-05

*Amended
(mark up)*

CO-ADOPTING CITY OF UMATILLA RESOLUTION #09-96, AUTHORIZING THE
CITY OF UMATILLA TO ENTER INTO A JOINT MANAGEMENT AGREEMENT
WITH UMATILLA COUNTY.

WHEREAS, The City of Umatilla entered into an intra-county joint management agreement project for the purpose of revising the Joint Management Agreement between Umatilla County and the City of Umatilla; and

WHEREAS, A need has been identified to facilitate an exchange of information and to cooperatively review land use actions; and

WHEREAS, The purpose of the Joint Management Agreement is to improve the administration of land within the urban growth boundary and better serve the city and county residents; and

WHEREAS, The Umatilla City Council adopted Resolution #09-96 on December 5, 1995; and

WHEREAS, The County Planning Commission reviewed the request on March 7, 1996 and recommended unanimously that the Board of Commissioners 'co-adopt said resolution; and

WHEREAS, The Board of Commissioners held a public hearing on March 14, 1996, at which time they considered the recommendation of the City and County Planning Commission, and unanimously voted to co-adopt Resolution #09-96.

NOW THEREFORE, be it ordained that the attached City of Umatilla Resolution #09-96 is hereby co-adopted by Umatilla County.

Signed this _____ day of March, 1996.

UMATILLA COUNTY BOARD OF COMMISSIONERS

Emile Hofersman

 Emile Hofersman, Chairman

Bill Hansell

 Bill Hansell, Vice-Chairman

Glenn Youngman

 Glenn Youngman, Commissioner

ATTEST :

Jane

 Records Officer

3-2-96

 Date

JOINT MANAGEMENT AGREEMENT BETWEEN
CITY OF UMATILLA
AND UMATILLA COUNTY

City of Umatilla Resolution Number 09 - 96

Umatilla County Board of Commissioners Resolution Number _____

This agreement is entered into this _____ day of _____, 1995 by the City of Umatilla, an incorporated municipality of the State of Oregon, hereinafter referred to as the "City" and Umatilla County, a political subdivision of the State of Oregon, hereinafter referred to as the "County".

RECITALS:

- A. The City and the County are authorized under the provisions of Oregon Revised Statutes (ORS) 190 to enter into intergovernmental agreements for the performance of any functions that the City or County has authority to perform; and
- B. The City and the County are required to have coordinated and consistent comprehensive plans which establish an Urban Growth Boundary (UGB) and a plan for the Urban Growth Area (UGA) within the boundary; and
- C. Statewide Planning Goal 14 (Urbanization) requires that the establishment and change of a UGB shall be through a cooperative process between the City and County; and
- D. The City and the County share a common concern regarding development and use of lands within the UGA and other identified areas of mutual interest; and
- E. Statewide Planning Goal 2 (Land Use Planning) requires that City and County maintain a consistent and coordinated plan for the UGB and UGA when amending their respective comprehensive plans; and
- F. The City and the County consider it mutually advantageous to establish this Joint Management Agreement (JMA) for the purpose of facilitating the orderly transition from rural to urban land use within the City's UGA.
- G. This JMA also constitutes a Cooperative Agreement under ORS 195.020.

NOW THEREFORE, THE CITY AND COUNTY AGREE AS FOLLOWS:

1. DEFINITIONS

- 1.1. **Area of Mutual Interest.** The unincorporated portion of the County extending from the City's urban growth boundary (UGB) outward and encompassing areas in which the City has significant interest due to potential economic, environmental, housing, public facilities, transportation and other planning or development-related impacts to the City, as shown in Exhibit A attached to and included herein as part of this Agreement.
- 1.1. **Comprehensive Plan.** A plan adopted by the City or County which meets the requirements of ORS 197.015; generally, a coordinated land use map and policy statements interrelating all functional and natural systems and activities relating to the use of lands.
- 1.2. **Land Use Actions.** Land Use and Limited Land Use Decisions defined by ORS 197.015; generally a decision by the City or County applying standards of the comprehensive plans or land use regulations to particular pieces of property. Examples include; variances, conditional use permits, partitions, subdivisions, planned unit developments, road dedications and vacations, and amendments to the zoning map for specific properties.
- 1.3. **Land Use Board of Appeals (LUBA).** The appellate body designated by state statute to review land use actions on appeal by an affected party.
- 1.4. **Land Use Regulation.** County or City zoning ordinances, subdivision ordinances adopted under ORS 92.044 or 92.046, or similar ordinances establishing standards for implementing the comprehensive plan. For the purpose of this JMA, substantive provisions of land use regulations shall be those sections of the ordinance establishing outright uses, conditional uses and zone requirements such as minimum lot sizes, the zoning map, and design standards for required improvements.
- 1.5. **Public Facilities Plan.** A document developed pursuant to OAR-660-11-000 which is a part of the City and/or County's Comprehensive Plan and which describes the location of existing public facilities, such as water, sewer and transportation facilities, and their future extension to areas of new growth.
- 1.6. **Urban Growth Area (UGA).** That unincorporated area between the City Limits and the Urban Growth Boundary in which urban services and facilities can be extended and development at urban intensity and density will occur.
- 1.7. **Urban Growth Boundary (UGB).** A mutually agreed upon line, identified in both the City and County comprehensive plans, which delineates the outer extent of the UGA and the limits of urban growth.

2. COORDINATION OF COMPREHENSIVE PLANNING AND DEVELOPMENT

Periodic Review and amendments to the City comprehensive plan text, land use regulations, or map(s) shall be enacted in accordance with the procedures established in this section.

At the time of adoption of this agreement, the City's Comprehensive Plan is in effect for the City and UGA, and the Umatilla County Zoning Ordinance is in effect for the UGA. It is the intent of the City and County to continue with a single plan for the UGA and work toward a consistent zoning map and regulations for the UGA.

2.1 Periodic Review; Amendments to the City's Comprehensive Plan or Land Use Regulations.

The City shall be responsible for all planning and zoning activities in the Urban Growth Area, as defined in the Joint Management Agreement, in accordance with the procedures in the following subsections. The County shall continue to be responsible for planning and zoning code enforcement including solid waste and nuisance abatement in the Urban Growth Area. At such future time when the City is ready to assume code enforcement responsibilities the County will be amendable to transfer enforcement to the City.

2.1.1 Periodic Review.

Periodic Review shall be a joint responsibility of the City and County. After notice to the City from the Oregon Department of Land Conservation and Development (DLCD), the City and County shall develop a proposed work program and process relating to the City and UGA, including the roles and responsibilities of each party. The City and County will present this proposal to their Planning Commissions for approval.

2.1.2 City Processing of Comprehensive Plan Text, Plan Map and Zoning Map Amendments.

- a. The City shall have lead responsibility for reviewing and adopting amendments to the Comprehensive Plan text, plan map and zoning map for the UGA. Amendments may be initiated by the City, the County, or an affected person, by application to the City.
- b. Amendment applications shall be processed by the City, with notification to the County at least twenty (20) days prior to the City Planning Commission's first hearing on the proposed amendment.
- c. Any comments received from the County shall be considered by the City Planning Commission when making its recommendation to the City Council.
- d. The County may also provide comments prior to the City Council hearing, in which case, the Council shall consider the County's comments in making its final decision.
- e. The City shall provide written notification of ~~it's~~ the City Council's final decision to the County within five (5) working days.

2.1.3 County Adoption of City Comprehensive Plan Text, Plan Map and Zoning Map Amendments.

- a. All amendments to the Comprehensive Plan text, plan map and zoning map affecting the UGA shall be referred to the County for co-adoption.
- b. The County must adopt the amendments approved by the City for these to be applicable in the UGA. The adoption shall be scheduled for hearing within ~~ninety~~ sixty (60) days of City transmittal.
- c. If the City and County disagree on the proposed amendment, either party may request a conflict resolution process to resolve the conflict.

2.1.4 Adoption or Amendment to Land Use Regulations; Plan and Zone Maps

- a. It is the intent of the City and County to jointly develop and adopt a single set of land use regulations and plan and zone map designations for properties within the City and UGA.
- b. The City agrees to adopt and apply the (1972) County zoning map designations and land use regulations to lands located within the UGA until adoption and implementation of City land use regulations and zoning designations for lands within the UGA.
- ~~bc.~~ The County City shall have lead responsibility for reviewing and adopting amendments to land use regulations and to the Plan Map or ~~Zoning m~~Map for the UGA. Amendments may be initiated by the City, the County, or an affected person, by application to the ~~County~~ City.
- ~~ed.~~ The ~~County~~ City shall notify the ~~City~~ County of proposed amendments at least (20) days prior to the ~~County~~ City Planning Commission's first hearing on the proposed amendment.
- ~~de.~~ The ~~City~~ County may comment on the proposed amendment in writing, or in person before the Planning Commission. The ~~County~~ City Planning Commission shall consider the ~~City's~~ County's comments in making a ~~final~~ recommendation to the ~~Board of Commissioners~~ City Council.
- ~~ef.~~ The ~~City~~ County may review and comment on the Planning Commission's recommendation to the ~~Board of Commissioners~~ City Council in writing, or in person at the ~~City Council's~~ public hearing on the amendment. The ~~County~~ City Council shall consider the ~~City's~~ County's comments in making a final decision.
- ~~fg.~~ The ~~County~~ City shall notify the ~~City~~ County of the ~~Board's~~ City Council's final decision within five (5) working days. ~~The City may appeal the Board's decision to LUBA following County ordinance, state statutes or administrative rule.~~

~~g. Following adoption of amendments to the land use regulations or plan and zone maps, the City is encouraged to make similar amendments to its land use regulations for consistency and shall amend or depict map amendments on City maps of the UGA.~~

h. All amendments to the land use regulations affecting the UGA shall be referred to the County for co-adoption.

i. The County must adopt the land use regulation amendments approved by the City for these to be applicable in the UGA. The adoption shall be scheduled for hearing within sixty (60) days of City transmittal.

j. If the City and County disagree on the proposed amendments, either party may request a conflict resolution process to resolve the conflict.

2.1.5 Public Facility Plan.

The City shall have lead responsibility for preparing a public facility plan for the UGA for water, sewer and storm drainage facilities as set forth in OAR-11-015. The ~~County~~ **City** shall **also** have lead responsibility for preparing the transportation element of the Public Facilities Plan for the UGA.

2.2. Review Process for Development ~~Actions~~ Permits in UGA.

The ~~County~~ **City** shall ~~retain~~ **have** responsibility for ~~land use actions affecting land reviewing applications for development permits for uses permitted~~ within the City's UGA, until after annexation.

To assist the City with administration of land use regulations with the UGA, the County agrees to provide the City with copies of prior land use permits issued for properties within the UGA.

2.2.1 ~~County~~ Land Use Application Review Procedures in UGA.

a. Applications for ~~land use actions~~ **development permits** within the UGA shall be processed by the ~~County~~ **City**. ~~Within twenty (20) days of~~ **After** determining an application is complete, the ~~County~~ **City** shall notify the ~~City~~ **County** of a ~~tentative decision on~~ the application, and provide the ~~City~~ **County** ~~at least twenty one (21) days to comment or request a hearing on the proposal~~ **with opportunity to review and comment on the proposal in accordance with the City's Type II or Type III application review procedures, as applicable to the request.**

b. The ~~County~~ **City** shall respond to ~~City~~ **County** comments, as appropriate, and consider them in making its final decision.

~~c. The County shall notify the City of any request for a public hearing based upon County procedures.~~

- ~~dc.~~ If a major change is made in the proposal, or significant new information is submitted that was not included in the original request, the ~~County~~ City shall repeat the notice procedure prior to making a decision on the request.
- ~~ed.~~ If the ~~City~~ County participated in the decision, notification of the final decision shall be provided to the ~~City~~ County within five (5) working days. The County shall have the right to appeal the City's decision in accordance with subsection (g) of this section.
- ~~e.~~ In order to provide a review opportunity beyond the City's final decision for land use requests within the UGA, before the decision may be appealed to the Land Use Board of Appeals (LUBA), the City, with concurrence from the County, will appoint a Hearings Officer to hear the contested decision. The decision of the Hearings Officer shall be the final local decision appealable directly to LUBA by any party to the decision. An appeal to the Hearings Officer shall follow the City's procedures for appeals.
- ~~f.~~ The City shall be responsible for all planning and zoning activities (as defined) in the Urban Growth Area (UGA).
- ~~g.~~ The County shall continue to be responsible for planning and zoning code enforcement in the UGA, including solid waste, and nuisance abatement.

~~2.2.2 — City Procedures~~

- ~~a.~~ After receiving notification from the County, the City shall within twenty-one (21) days review the application and provide written comments or request a public hearing.
- ~~b.~~ If the City disagrees with the County's final decision, it may appeal the decision to the County Planning Commission or Hearings Officer within fifteen (15) days of the final decision.
- ~~c.~~ The City may provide comments on the appeal in writing or in person at the hearing.
- ~~d.~~ If the City disagrees with the County Planning Commission's or Hearings Officer's decision, it may appeal that decision to the Board of Commissioners within fifteen (15) days of the Commission's/Hearings Officer's final decision.

~~2.2.3 — Opportunity for Appeal by City~~

- ~~a.~~ If the City participates in the County decision, through providing written comments or in person at a public hearing, the City has the right to appeal the County's final decision to the Land Use Board of Appeals, in accordance with the appeals process specified in the County's Ordinance, applicable state statute or administrative rule.

2.3 Area of Mutual Interest

The County will send notice to the City on all pending land use actions within the Area of Mutual Concern requiring prior public notice and allow the City an opportunity to comment prior to making decisions on such requests. The County will provide the City with copies of decisions on all such requests, as well as staff permit approvals within the Area of Mutual Concern.

The City and County will coordinate with each other regarding major improvement projects, road routings, or road right-of-way vacations within the Area of Mutual Concern.

The City and County will review and comment on the development and future amendment of the City and County comprehensive plans and land use regulations affecting the Area of Mutual Concern.

3. CITY SERVICES AND ANNEXATION

3.1 City Services

The City, at its option and on its terms, may extend services to any property within the UGA. For the purposes of this JMA, city services shall be defined as sewer and water.

3.2 Annexation

Annexation of a property shall be in accordance with relevant methods and procedures in the ORS and City ordinances. After annexation, the City shall amend its plan and zoning maps, if necessary, to include the annexed properties. ~~and, unless plan and zone map amendments are processed simultaneous with the annexation, it shall assign plan and zoning designations that most closely approximate the County's prior to annexation.~~

3.2 City Addresses

Within one (1) year following annexation, property (situs) addresses shall be converted to the city addressing system.

4. ROADS

4.1 Jurisdiction of Roads within the UGA; Intent

The City and County agree the City should assume jurisdiction of selected county roads within the City limits. Although the County would prefer the City eventually assume jurisdiction and maintenance of all county roads within the City, it is amenable to retaining jurisdiction over some roads. The City and County also agree that maintenance and improvement responsibilities are tied to jurisdiction. The City and County agree the

attached map and inventory represents all County Roads within the UGA and City limits.

The City and County shall work together to develop improvement plans for each of the following roads listed hereunder, with the intent that the City will assume ownership of, and maintenance for the road once the road has been developed to City, or other agreed upon standards.

4.1.1 Powerline Road

4.2.2 Umatilla River Road

4.1.3 Lind Road

4.1.4 Bensel Road

4.1.5 Power City Road

4.2 Jurisdiction Access Permits and Standards; Coordination of Activities

~~The City and County will meet within six months of adoption of this agreement to identify roads appropriate for transfer of jurisdiction, based upon mutually agreed criteria such as percentage of local vs. non-local traffic, and develop a timetable and conditions for transfer of County roads. County ordinances and ORS will be followed in transferring jurisdiction.~~

The City and County shall coordinate with each other regarding major water, sewer or road improvement projects, road routings or re-routings, or road right-of-way vacations concerning any County road within the City or the UGA.

4.2.1 The City will send the County Road Department a notice of application on any land use request when the property abuts a County road or access to the property is proposed from a County road. The City will require all applicants whose property requires access to a County road to obtain the necessary access permit from the County Road Department as a condition of approval prior to creating, altering, including change of use or significantly expanding access to the County road.

4.2.2 The County will apply the City's access spacing and road improvement standards to any portion of a County road within the urban growth boundary based on the City's street classification system. The City's street standards shall allow for phased development of a County road within the urban growth area provided the improvements are associated with a proposed land use request and the necessary right-of-way or other required improvements, such as sidewalks, planter strips, etc., are planned for future phases. When a County road within the urban growth area has been developed to City road standards for at least 75% of its length, the City

and County shall enter into negotiations for the transfer of ownership and maintenance of the road to the City.

Note: The Co Rd Dept does not have equipment to maintain roads to city street standards where city standards require sidewalks, curbs, storm drains, planter strips, etc. One possible solution would be for the City to accept the road where the developer is required to make improvements to city street standards (e. g., curbs, gutters and sidewalks). Although driveways must meet width and improvement standards, the Co Rd Dept may not deny reasonable access (ORS 374.310 and 374.312).

4.3 Annexation

County roads will be annexed to the City when contiguous to properties being annexed. Within six months of **such** annexation, the City and County will decide which roads within the annexed area are appropriate for transfer of jurisdiction to the City and agree upon conditions and a timetable for transfer.

4.4 Maintenance

The City will maintain all roads over which it has jurisdiction, including roads that it has assumed jurisdiction for after annexation. The County will continue to maintain all county roads within the Urban Growth Area (UGA) and within the City.

4.5 Public Roads

Public roads are roads that have been dedicated for public use, but are not owned or maintained by the City, County or State. Public roads, both within the City and UGA, will be maintained by private property owners unless they are brought up to city ~~or county~~ standards. If brought up to **City** standards, ~~and otherwise accepted by the City or County;~~ roads within the City limits **or urban growth area** will be **accepted as a city street and** maintained by the City ~~and roads within the UGA, by the County.~~

4.6 Road Standards

Within ~~one year~~ **six (6) months** ~~of from~~ adoption of this agreement, the City and County will ~~adopt~~ **agree a single set of** ~~on~~ standards for construction and improvement of ~~city and~~ county roads within the City limits and the UGA. Such standards will include both cross-sectional and engineering standards. ~~Until a single set of standards is adopted, all City and County roads within the City limits will be built to city standards and all county roads within the UGA will be built to county standards.~~

4.7 Road Improvements

Whichever party has jurisdiction over a given road will also be responsible for publicly funded improvements to that road. As part of the land use permitting process, the City will be responsible for applying conditions and requirements for all road improvements by

property owners within the city limits and ~~the County will be responsible for applying conditions and requirements for such improvements within~~ the UGA.

Note: If the City requires property owners and developers, as part of the land use permit approval, to improve a portion of a County road to City street standards (e. g., curbs, gutters and sidewalks) the City must take ownership and maintenance of that portion of the improved road, or City and County may negotiate terms to transfer the road.

5. BUILDING PERMIT AND INSPECTION PROGRAM

The City intends to make a request to the State of Oregon Building Codes Division for a change of service area to assume jurisdiction of the urban growth area for the City's building permitting and inspection program. County agrees to support this effort to any reasonable extent, if necessary, after adoption of this agreement by both parties.

6. REVIEW, AMENDMENT, CONFLICT RESOLUTION, SEVERABILITY, TERMINATION OF AGREEMENT

§6.1 Scheduled Reviews of the JMA

The City and County agree to jointly review this agreement every five (5) years to evaluate the effectiveness of the processes set forth, address new matters of state law or changed conditions within the urban growth boundary.

§6.2 Amendments to the JMA

This agreement may be amended by initiation of either party to the agreement following the procedures outlined below.

§6.2.1 Request

- a. The party which seeks the amendment shall submit a formal request for amendment, describing the proposed change and why the change is necessary.
- b. The responding agency shall schedule a review of this request within 30 days of receipt.

§6.2.2 Resolution, Modification and Mediation

- a. Both parties shall make good faith efforts to resolve requests to amend this agreement.
- b. The responding agency may approve, deny or suggest modifications to the amendment.
- c. Either party to the agreement may request the services of an outside mediator to help resolve disputes that may arise out of the implementation or amendment of this agreement.

56.3 Severability of JMA Provisions

The provisions of the agreement are severable. If an article, sentence, clause or phrase shall be adjudged by a court of competent jurisdiction to be invalid, the decision shall not affect the validity of the remaining portions of this agreement.

56.4 Termination of JMA

This agreement may be terminated by any of the parties following procedures provided.

56.4.1 Public Hearing Notice and Public Comment

- a. A public hearing shall be called by the party considering termination, giving the other party notice of hearing at least thirty (30) days prior to the scheduled hearing date. The thirty (30) day period shall be used by both parties to seek resolution of differences.
- b. Public notice of the hearing shall be in accordance with applicable Oregon statutes and administrative rules, but not less than fifteen (15) days prior to the hearing.
- c. The party moving for termination shall state, in the public notice and at the hearing, the reasons for termination and the effect of the action on the UGA.
- d. Public comment shall be received regarding the action and considered by the party in its decision.

56.4.2 Conflict Resolution

- a. Prior to a final decision to terminate the agreement, the City and County shall agree to enter into a conflict resolution process which will be established by the Department of Land Conservation and Development.

56.4.3 Final Decision

- a. The governing body of the terminating party shall vote to decide on termination on the established date for termination. If the vote is to end the agreement, written notice of the decision shall be provided to all affected parties including the Director of the Oregon Department of Land Conservation and Development.
- b. The established date of termination shall be at least thirty (30) days after the public hearing in order to provide an additional time period for resolution of differences.
- c. If resolution cannot be reached, a replacement agreement shall be developed as required by ORS 195.020.

56.5 Effective Date

The effective date of this agreement shall be the date of co-adoption by the Umatilla County Board of Commissioners. It shall at that time replace and supersede a similar Agreement ~~signed on January 28, 1978~~ **which became effective on March 26, 1996.**

IN WITNESS WHEREOF, this Urban Growth Area Joint Management Agreement is signed and executed by:

CITY COUNCIL COMMISSIONERS
CITY OF UMATILLA, OREGON

George Hash
Mayor

Mary Wedrick
Councilor

Steph Math
Councilor

Jack P. Tate
Councilor

Councilor

12/5/95
Date

Attest: County Clerk

Jean K. [Signature] 5-28-96



BOARD OF COUNTY
OF UMATILLA COUNTY, OREGON

Ernie M. Holloman
Chair

William [Signature]
Commissioner

Glen [Signature]
Commissioner

March 26, 1996
Date



RESOLUTION NO. 09-96

A RESOLUTION AUTHORIZING THE CITY OF UMATILLA TO ENTER INTO
AND THE MAYOR OR REPRESENTATIVE TO SIGN
A JOINT MANAGEMENT AGREEMENT WITH UMATILLA COUNTY

WHEREAS, the City of Umatilla entered in to an intra-county Joint Management Agreement project for the purpose of revising the joint management agreement between Umatilla County and the City of Umatilla; and

WHEREAS, a need has been identified to facilitate an exchange of information and to cooperatively review land use actions; and

WHEREAS, the purpose of the joint management is to improve the administration of the land within the Urban Growth Boundary and better serve the City and County residents.

NOW THEREFORE, the City of Umatilla does resolve as follows:

- 1) that the form, terms, and provisions of the draft dated 9/14/95 of the Joint Management Agreement Between City of Umatilla and Umatilla County and the transactions contemplated thereby, providing for, among other things, the coordination of comprehensive planning and development of the city's urban growth area, copies of which have been reviewed by the City Council be, and they are, in all respects, hereby approved and adopted; and
- 2) that the Mayor or Council President and the City Recorder be, and each of them singly is, hereby authorized to execute and deliver the Joint Management Agreement Between City of Umatilla and Umatilla County, and such execution is conclusive evidence of the authorization thereof by this City Council.

PASSED by the Council and signed this _____ day of December, 1995.

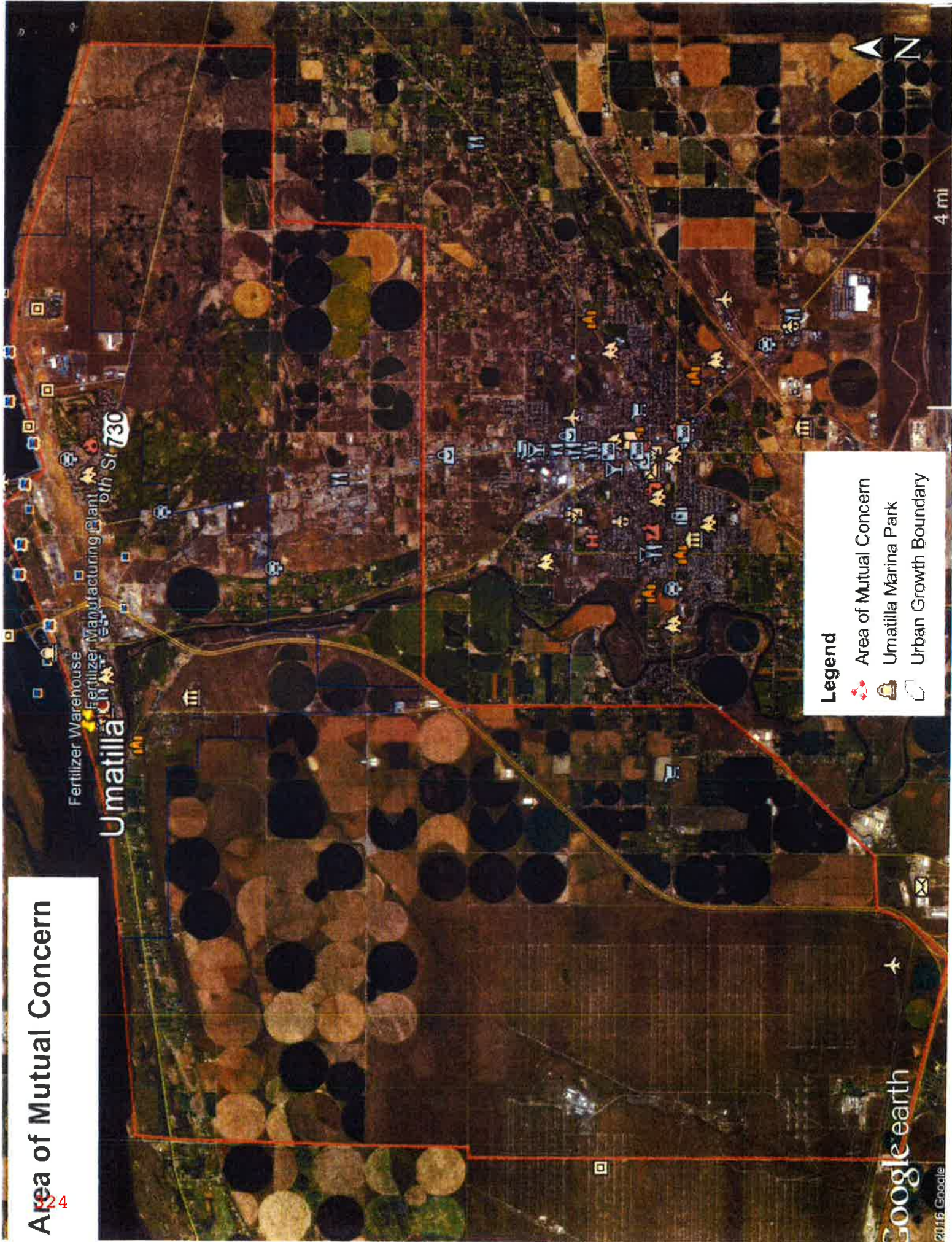

GEORGE HASH, MAYOR

ATTEST:





Linda Gettmann, City Recorder

Area of Mutual Concern

24



Legend

-  Area of Mutual Concern
-  Umatilla Marina Park
-  Urban Growth Boundary

JOINT MANAGEMENT AGREEMENT BETWEEN
CITY OF UMATILLA
AND UMATILLA COUNTY

Clean
Version

This agreement is entered into this _____ day of _____, _____ by the City of Umatilla, an incorporated municipality of the State of Oregon, hereinafter referred to as the "City" and Umatilla County, a political subdivision of the State of Oregon, hereinafter referred to as the "County".

RECITALS:

- A. The City and the County are authorized under the provisions of Oregon Revised Statutes (ORS) 190 to enter into intergovernmental agreements for the performance of any functions that the City or County has authority to perform; and
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NOW THEREFORE, THE CITY AND COUNTY AGREE AS FOLLOWS:

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- b. Amendment applications shall be processed by the City, with notification to the County at least twenty (20) days prior to the City Planning Commission's first hearing on the proposed amendment.
- c. Any comments received from the County shall be considered by the City Planning Commission when making its recommendation to the City Council.
- d. The County may also provide comments prior to the City Council hearing, in which case, the Council shall consider the County's comments in making its final decision.
- e. The City shall provide written notification of the City Council's final decision to the County within five (5) working days.

2.1.3 County Adoption of City Comprehensive Plan Text, Plan Map and Zoning Map Amendments.

- a. All amendments to the Comprehensive Plan text, plan map and zoning map affecting the UGA shall be referred to the County for co-adoption.
- b. The County must adopt the amendments approved by the City for these to be applicable in the UGA. The adoption shall be scheduled for hearing within sixty (60) days of City transmittal.
- c. If the City and County disagree on the proposed amendment, either party may request a conflict resolution process to resolve the conflict.

2.1.4 Adoption or Amendment to Land Use Regulations; Plan and Zone Maps

- a. It is the intent of the City and County to jointly develop and adopt a single set of land use regulations and plan and zone map designations for properties within the City and UGA.
- b. The City agrees to adopt and apply the (1972) County zoning map designations and land use regulations to lands located within the UGA until adoption and implementation of City land use regulations and zoning designations for lands within the UGA.
- c. The City shall have lead responsibility for reviewing and adopting amendments to land use regulations and to the Plan Map or Zoning Map for the UGA. Amendments may be initiated by the City, the County, or an affected person, by application to the City.
- d. The City shall notify the County of proposed amendments at least (20) days prior to the City Planning Commission first hearing on the proposed amendment.
- e. The County may comment on the proposed amendment in writing, or in person before the Planning Commission. The City Planning Commission shall consider the County's comments in making a recommendation to the City Council.
- f. The County may review and comment on the Planning Commission's recommendation to the City Council in writing, or in person at the City Council's public hearing on the amendment. The City Council shall consider the County's comments in making a final decision.
- g. The City shall notify the County of the City Council's final decision within five (5) working days.
- h. All amendments to the land use regulations affecting the UGA shall be referred to the County for co-adoption.
- i. The County must adopt the land use regulation amendments approved by the City for these to be applicable in the UGA. The adoption shall be scheduled for hearing within sixty (60) days of City transmittal.

- j. If the City and County disagree on the proposed amendments, either party may request a conflict resolution process to resolve the conflict.

2.1.5 Public Facility Plan.

The City shall have lead responsibility for preparing a public facility plan for the UGA for water, sewer and storm drainage facilities as set forth in OAR-11-015. The City shall also have lead responsibility for preparing the transportation element of the Public Facilities Plan for the UGA.

2.2. Review Process for Development Permits in UGA.

The City shall have responsibility for reviewing applications for development permits for **uses permitted** within the City's UGA.

To assist the City with administration of land use regulations with the UGA, the County agrees to provide the City with copies of prior land use permits issued for properties within the UGA.

2.2.1 Land Use Application Review Procedures in UGA.

- a. Applications for development permits within the UGA shall be processed by the City. After determining an application is complete, the City shall notify the County of the application, and provide the County with opportunity to review and comment on the proposal in accordance with the City's Type II or Type III application review procedures, as applicable to the request.
- b. The City shall respond to County comments, as appropriate, and consider them in making its final decision.
- c. If a major change is made in the proposal, or significant new information is submitted that was not included in the original request, the City shall repeat the notice procedure prior to making a decision on the request.
- f. If the County participated in the decision, notification of the final decision shall be provided to the County within five (5) working days. The County shall have the right to appeal the City's decision in accordance with subsection (g) of this section.
- g. In order to provide a review opportunity beyond the City's final decision for land use requests within the UGA, before the decision may be appealed to the Land Use Board of Appeals (LUBA), the City, with concurrence from the County, will appoint a Hearings Officer to hear the contested decision. The decision of the Hearings Officer shall be the final local decision appealable directly to LUBA by any party to the decision. An appeal to the Hearings Officer shall follow the City's procedures for appeals.
- h. The City shall be responsible for all planning and zoning activities (as defined) in the Urban Growth Area (UGA).

- i. The County shall continue to be responsible for planning and zoning code enforcement in the UGA, including solid waste, and nuisance abatement.

2.3 Area of Mutual Interest

The County will send notice to the City on all pending land use actions within the Area of Mutual Concern requiring prior public notice and allow the City an opportunity to comment prior to making decisions on such requests. The County will provide the City with copies of decisions on all such requests, as well as staff permit approvals within the Area of Mutual Concern.

The City and County will coordinate with each other regarding major improvement projects, road routings, or road right-of-way vacations within the Area of Mutual Concern.

The City and County will review and comment on the development and future amendment of the City and County comprehensive plans and land use regulations affecting the Area of Mutual Concern.

3. CITY SERVICES AND ANNEXATION

3.1 City Services

The City, at its option and on its terms, may extend services to any property within the UGA. For the purposes of this JMA, city services shall be defined as sewer and water.

3.2 Annexation

Annexation of a property shall be in accordance with relevant methods and procedures in the ORS and City ordinances. After annexation, the City shall amend its plan and zoning maps, if necessary, to include the annexed properties.

3.2 City Addresses

Within one (1) year following annexation, property (situs) addresses shall be converted to the city addressing system.

4. ROADS

4.1 Jurisdiction of Roads within the UGA; Intent

The City and County agree the City should assume jurisdiction of selected county roads within the City limits. Although the County would prefer the City eventually assume jurisdiction and maintenance of all county roads within the City, it is amenable to retaining jurisdiction over some roads. The City and County also agree that maintenance and

improvement responsibilities are tied to jurisdiction. The City and County agree the attached map and inventory represents all County Roads within the UGA and City limits.

The City and County shall work together to develop improvement plans for each of the following roads listed hereunder, with the intent that the City will assume ownership of, and maintenance for the road once the road has been developed to City, or other agreed upon standards.

4.1.1 Powerline Road

4.2.2 Umatilla River Road

4.1.3 Lind Road

4.1.4 Bensel Road

4.1.5 Power City Road

4.2 Access Permits and Standards; Coordination of Activities

The City and County shall coordinate with each other regarding major water, sewer or road improvement projects, road routings or re-routings, or road right-of-way vacations concerning any County road within the City or the UGA.

4.2.1 The City will send the County Road Department a notice of application on any land use request when the property abuts a County road or access to the property is proposed from a County road. The City will require all applicants whose property requires access to a County road to obtain the necessary access permit from the County Road Department as a condition of approval prior to creating, altering, including change of use or significantly expanding access to the County road.

4.2.2 The County will apply the City's access spacing and road improvement standards to any portion of a County road within the urban growth boundary based on the City's street classification system. The City's street standards shall allow for phased development of a County road within the urban growth area provided the improvements are associated with a proposed land use request and the necessary right-of-way or other required improvements, such as sidewalks, planter strips, etc., are planned for future phases. When a County road within the urban growth area has been developed to City road standards for at least 75% of its length, the City and County shall enter into negotiations for the transfer of ownership and maintenance of the road to the City.

Note: The Co Rd Dept does not have equipment to maintain roads to city street standards where city standards require sidewalks, curbs, storm drains, planter strips, etc. One possible solution would be for the City to accept the road where the developer is required to make improvements to city street standards (e. g., curbs, gutters and sidewalks).

Although driveways must meet width and improvement standards, the Co Rd Dept may not deny reasonable access (ORS 374.310 and 374.312).

4.3 Annexation

County roads will be annexed to the City when contiguous to properties being annexed. Within six months of such annexation, the City and County will decide which roads within the annexed area are appropriate for transfer of jurisdiction to the City and agree upon conditions and a timetable for transfer.

4.4 Maintenance

The City will maintain all roads over which it has jurisdiction, including roads that it has assumed jurisdiction for after annexation. The County will continue to maintain all county roads within the Urban Growth Area (UGA) and within the City.

4.5 Public Roads

Public roads are roads that have been dedicated for public use, but are not owned or maintained by the City, County or State. Public roads, both within the City and UGA, will be maintained by private property owners unless they are brought up to city standards. If brought up to City standards, roads within the City limits or urban growth_area will be accepted as a city street and maintained by the City.

4.6 Road Standards

Within six (6) months from adoption of this agreement, the City and County will agree on standards for construction and improvement of county roads within the City limits and the UGA. Such standards will include both cross-sectional and engineering standards.

4.7 Road Improvements

Whichever party has jurisdiction over a given road will also be responsible for publicly funded improvements to that road. As part of the land use permitting process, the City will be responsible for applying conditions and requirements for all road improvements by property owners within the city limits and the UGA.

Note: If the City requires property owners and developers, as part of the land use permit approval, to improve a portion of a County road to City street standards (e. g., curbs, gutters and sidewalks) the City must take ownership and maintenance of that portion of the improved road, or City and County may negotiate terms to transfer the road.

5. **BUILDING PERMIT INSPECTION PROGRAM**

The City intends to make a request to the State of Oregon Building Codes Division for a change of service area to assume jurisdiction of the urban growth area for the City's building

permitting and inspection program. County agrees to support this effort to any reasonable extent, if necessary, after adoption of this agreement by both parties.

6. REVIEW, AMENDMENT, CONFLICT RESOLUTION, SEVERABILITY, TERMINATION OF AGREEMENT

6.1 Scheduled Reviews of the JMA

The City and County agree to jointly review this agreement every five (5) years to evaluate the effectiveness of the processes set forth, address new matters of state law or changed conditions within the urban growth boundary.

6.2 Amendments to the JMA

This agreement may be amended by initiation of either party to the agreement following the procedures outlined below.

6.2.1 Request

- a. The party which seeks the amendment shall submit a formal request for amendment, describing the proposed change and why the change is necessary.
- b. The responding agency shall schedule a review of this request within 30 days of receipt.

6.2.2 Resolution, Modification and Mediation

- a. Both parties shall make good faith efforts to resolve requests to amend this agreement.
- b. The responding agency may approve, deny or suggest modifications to the amendment.
- c. Either party to the agreement may request the services of an outside mediator to help resolve disputes that may arise out of the implementation or amendment of this agreement.

6.3 Severability of JMA Provisions

The provisions of the agreement are severable. If an article, sentence, clause or phrase shall be adjudged by a court of competent jurisdiction to be invalid, the decision shall not affect the validity of the remaining portions of this agreement.

6.4 Termination of JMA

This agreement may be terminated by any of the parties following procedures provided.

6.4.1 Public Hearing Notice and Public Comment

- a. A public hearing shall be called by the party considering termination, giving the other party notice of hearing at least thirty (30) days prior to the scheduled hearing date. The thirty (30) day period shall be used by both parties to seek resolution of differences.
- b. Public notice of the hearing shall be in accordance with applicable Oregon statutes and administrative rules, but not less than fifteen (15) days prior to the hearing.
- c. The party moving for termination shall state, in the public notice and at the hearing, the reasons for termination and the effect of the action on the UGA.
- d. Public comment shall be received regarding the action and considered by the party in its decision.

6.4.2 Conflict Resolution

- a. Prior to a final decision to terminate the agreement, the City and County shall agree to enter into a conflict resolution process which will be established by the Department of Land Conservation and Development.

6.4.3 Final Decision

- a. The governing body of the terminating party shall vote to decide on termination on the established date for termination. If the vote is to end the agreement, written notice of the decision shall be provided to all affected parties including the Director of the Oregon Department of Land Conservation and Development.
- b. The established date of termination shall be at least thirty (30) days after the public hearing in order to provide an additional time period for resolution of differences.
- c. If resolution cannot be reached, a replacement agreement shall be developed as required by ORS 195.020.

6.5 Effective Date

The effective date of this agreement shall be the date of co-adoption by the Umatilla County Board of Commissioners. It shall at that time replace and supersede a similar Agreement which became effective on March 26, 1996.

APPROVED on behalf of the CITY OF UMATILLA this ____ day of _____ 20 ____.

Mayor

(City Seal)

ATTEST:

City Recorder

APPROVED on behalf of UMATILLA COUNTY this ____ day of _____, 20 ____.

Umatilla County Board of Commissioners

William J. Elfering, Commissioner

(County Seal)

George L. Murdock, Commissioner

W. Lawrence Givens, Commissioner

ATTEST:

Office of County Records

Records Officer

APPROVED AS TO FORM:

City Attorney

County Counsel

Area of Mutual Concern

Umatilla

Fertilizer Warehouse

Fertilizer Manufacturing Plant
10th St 730

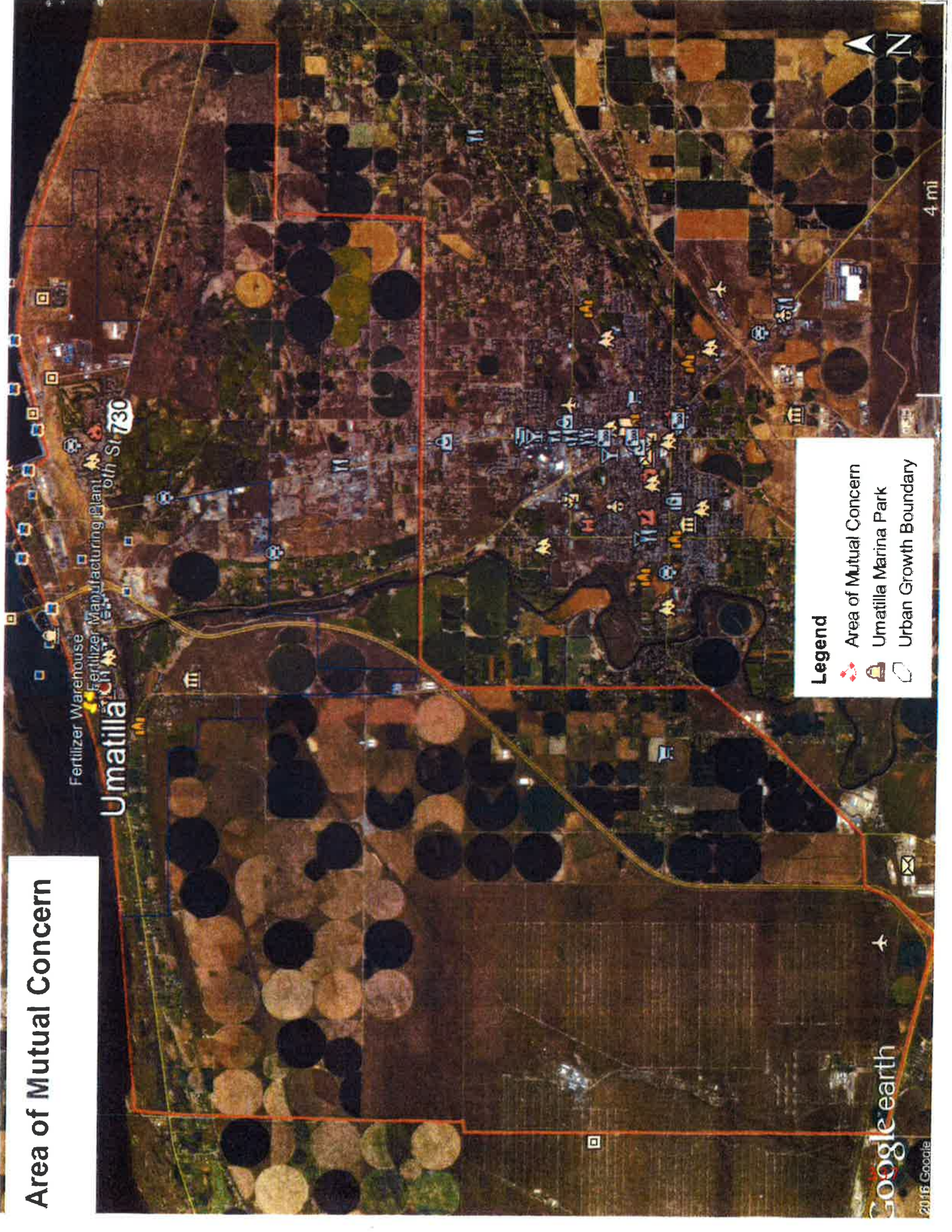
Legend

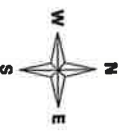
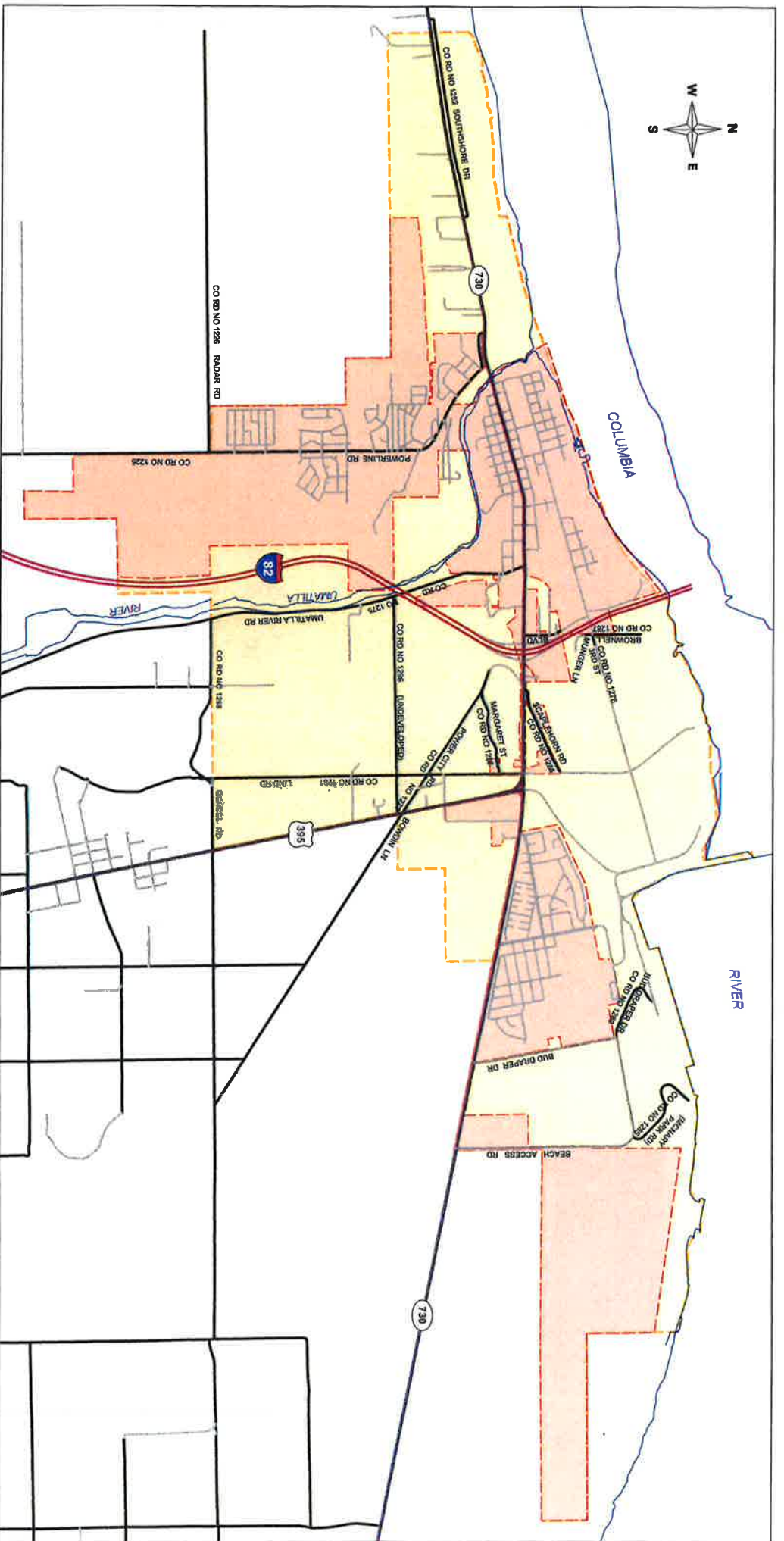
-  Area of Mutual Concern
-  Umatilla Marina Park
-  Urban Growth Boundary

Google earth

2016 Google

4 mi





CITY OF UMATILLA, OREGON

Legend

- City Limits
- Urban Growth Boundary
- Roads & Streets
- County Maintained Roads
- State Highways
- Interstates



MAP DISCLAIMER: No warranty is made by Umatilla County as to the accuracy, reliability or completeness of this data. Map should be used for reference purposes only. Not for legal use. Created by J. Alford, Umatilla County Planning Department. jford@umatillaplan.org www.umatillaplan.org www.umatillaplan.org/CountyRoads.html www.umatillaplan.org/CountyRoads.html

**County Roads In Umatilla City Limits and UGB
Updated 1/1/2016**

Umatilla	Rd#	City Paved	City Gravel	Urban Growth Paved	Urban Growth Gravel
3rd St	1276			0.11	
Beach Access Rd	1285			(McNary Beach Rd) 0.5	
Bensel Rd *	1268			0.73	
Bowdin Ln	1272				0.05
Brownell Blvd	1287	0.06		0.49	
Bud Draper Dr	1289			0.41	
Lind Rd	1281		0.18		1.50
Margaret St	1288				0.44
Power City Rd	1272			0.25	0.97
Powerline Rd	1225	1.73			
South Shore Dr	1282			1.03	
Scaplehorn Rd	1286			0.51	
Umatilla River Rd	1275	0.3		1.44	
		2.09	0.18	4.97	2.96
Undeveloped R/W	1296				1.18

* Urban Growth Boundary follows centerline of road

HERMISTON

Amended
(markup)

**HERMISTON PLANNING AREA JOINT MANAGEMENT
AGREEMENT**

CITY OF HERMISTON

UMATILLA COUNTY

A. PARTIES

This Agreement is made and entered into this ____ day of _____, 20__, by and between the City of Hermiston, an Oregon Municipal Corporation, hereinafter referred to as "City", and Umatilla County, a political subdivision of the State of Oregon, hereinafter referred to as "County".

B. RECITALS

1. This Joint Management Agreement is the culmination of a lengthy planning process and a series of actions intended, to facilitate the orderly and efficient development of land in and around the City of Hermiston. Such actions include the preparation and adoption of city's comprehensive plan, the cooperative establishment of an urban growth boundary and urban/urbanizable areas, coordination with affected governmental units and mutual review of the City and County Comprehensive Plan. This process has been accomplished pursuant to Oregon's Statewide Land Use Planning Program as enumerated by Oregon Revised Statutes (ORS) and the Oregon Land Conservation and Development Commission. (LCDC)
2. The City adopted a Comprehensive Plan, hereinafter referred to as the "Comprehensive Plan", on the 12th day of October 1992, to replace the Comprehensive Plan of 1983 and to comply with applicable Statewide Planning Goals.
3. The City and County desire to plan for the orderly management and development of the entire Hermiston Planning Area as provided in their respective Comprehensive Plans and through their joint efforts and cooperation. Therefore, they enter into this Joint Management Agreement pursuant to Oregon Statewide Planning Law and as authorized by ORS 215.100.
4. The consideration for this Agreement is the mutual benefit of the City and County.

NOW THEREFORE, THE CITY AND COUNTY AGREE AS FOLLOWS:

C. DEFINITIONS

1. Area of Mutual Concern - This area includes the City and unincorporated land around the City. It extends north to Baggett Lane, east to Edwards Road, south to Feedville Road and I-84, and west to I-82 (see Exhibit B).
2. Comprehensive Plan - A plan adopted by the City or County which meets the requirements of ORS 197.015; generally, a coordinated land use map and policy statements interrelating all functional and natural systems and activities relating to the use of lands.
3. Contiguous - For the purpose of this agreement, contiguous shall be defined as touching or adjoining.
4. Days - In all cases, the reference to days in this agreement shall be understood to mean calendar days.
5. Land Use Actions - Land Use and Limited Land Use Decisions defined by ORS 197.015; generally a decision by the City or County applying standards of the comprehensive plans or land use regulations to particular pieces of property. Examples include, but are not limited to variances, conditional use permits, partitions, subdivisions, planned unit developments, road dedications and vacations, and amendments to the zoning map for specific properties.
6. Land Use Regulation - County or City zoning ordinances, subdivision ordinances adopted under ORS 92.044 or 92.046, or similar ordinances establishing standards for implementing the comprehensive plan. For the purpose of this JMA, substantive provisions of land use regulations shall be those sections of the ordinance establishing outright uses, conditional uses, and zone requirements such as minimum lot sizes, the zoning map, and design standards and specifications for required improvements and public infrastructure.
7. Legislative - An amendment to the City or County comprehensive plans and/or land use ordinances or a plan or zone maps that applies to a large number of parcels of land.
8. Major improvement projects - Projects that involve capital improvements for new or replacement facilities. These projects are budgeted as separate line items in the local jurisdiction's capital improvement budget. They do not include routine facilities maintenance, such as cleaning, pavement patching, or repairs.

9. Periodic Review - A comprehensive plan and ordinance review process, which is mandated by the state for cities over 2,500 people and optional for cities with smaller populations. The process involves an assessment of plan and ordinance deficiencies, development of a work plan with the Oregon Department of Land Conservation and Development (DLCD) to address the deficiencies, and the completion of the work plan.
10. Urban Area and Urbanizable Area - The City's 1983 Comprehensive Plan has designated areas outside but adjacent to the City's corporate limits, and within the jurisdiction of the County, as "Urban Areas" and "Urbanizable Areas". Both areas are within the designated "Urban Growth Boundary". These terms are defined as follows:
 - a) Urban Area means the unincorporated portion of the Urban Growth Boundary immediately adjacent to the City's corporate limits where urban development in the near future is most likely to occur and where a full complement of urban services, including water and sewer, can be extended readily (see Exhibit A).

In addition, properties included in this area are characterized by one or more of the following:

 1. Property is planned or committed to urban level development.
 2. Property owner has indicated an interest in annexation.
 3. Eventual annexation will result in the creation of more rational and easily identifiable city limits.
 - b) Urbanizable Area means outlying unincorporated areas of the Urban Growth Boundary not immediately needed for urban development and to which urban level services cannot be extended in an orderly and efficient manner, at this time.
11. Urban Growth Area (UGA) - That unincorporated area between the City Limits and the Urban Growth Boundary in which urban services and facilities can be extended and development at urban intensity and density will occur.
12. Urban Growth Boundary (UGB) means the boundary encompassing land needed to accommodate the growth of the CITY over the next 20 years (see Exhibit A).

13. Words and phrases used in this Joint Management Agreement shall be construed in accordance with the City's Comprehensive Plan, Zoning Ordinance, Subdivision Ordinance, and Annexation Ordinance.

D. AREA OF MUTUAL CONCERN

1. The City and County will send each other notice on all pending land use actions requiring public hearings and on all decisions on such requests as well as staff permit approvals within the Area of Mutual Concern and outside of the UGB in the same manner as for areas within the UGB pursuant to Section E.
2. The City and County will coordinate with each other regarding major improvement projects, road routings, or road right-of-way vacations within the Area of Mutual Concern.
3. The City and County will review and comment on the development and future amendment of the City and County comprehensive plans and land use regulations for the Area of Mutual Concern.
4. The County will adopt by ordinance as an amendment to the Land Development Code any FAA-approved, City adopted amendments to the boundaries and standards of the City's Airport Hazard Zone, as mapped by the City with respect to the area outside the City's corporate limits.
5. The City will require all applicants whose property requires access to a County road to obtain a necessary access permit from the County Road Department before creating, altering, or significantly expanding the use of access to the County road in question.

To improve access regulation, and therefore public safety, the City will send notification directly to the County Road Department on all land use requests requiring public hearings and on actions on such requests as well as all staff permit approvals, in the same manner as provided in sections E-4 through E-8, when the property involved requires access to a County Road within the City limits.

E. AREAS WITHIN THE UGB, OVERALL PROVISIONS

1. The County shall adopt by ordinance as an amendment to the County Comprehensive Plan, the City's Comprehensive Plan including the Urban Growth Boundary, Plan Map, and Plan Policies to apply to land within the UGB.

2. The County shall adopt by ordinance as an amendment to the County's Land Development Code for application within the Urban areas only:
 - a) City land use regulations.
 - b) City zoning designations as described in Section F.
3. All applications for land use actions within the Urban Area shall be made through the City's Planning Department. Land use actions within Urban Areas shall be reviewed according to the procedures and requirements of the City's land use regulations and associated fee schedule. Although it is not currently possible to transfer building inspection authority and administration to the City within the Urban Area, the City and County agree to cooperatively evaluate this transfer of authority if it becomes feasible in the future.
4. All applications for land use actions within the Urbanizable Area shall be made through the County's Planning Department. Land use actions within Urbanizable areas shall be reviewed according to the procedures described in sections E-5 through E-8. The County shall be responsible for planning and zoning code enforcement in the Urbanizable Areas.
5. The County Planning Department will refer to the City Planning Department for review and comment all land use requests within the Urbanizable area for which a public hearing is required. Such notice shall be sent at least ten (10) days prior to the date of the first public hearing on each request. The County shall send the City the staff reports on such requests at least one week prior to the first public hearing.
6. If adequate time is available, the City Planning Department will review and comment on each such UGB land use action notice; otherwise the City Manager, or designee, will review and comment on the behalf of the City Planning Commission, and will so notify them at the next City Planning Commission meeting. The City will relay to the County comments on each such request by the date of the first public hearing or at said public hearing, even if the City's response is "no comment."
7. The County Planning Department will refer back to the City prior to final action any such land use action request in the Urbanizable area for which amendments by the applicant or County were made subsequent to the first or additional public hearings together with relevant new staff comments. The same ten-day notice period will apply.

8. The County Planning Department will notify the City Planning Department in writing of all actions on such requests as well as all staff permit approvals within the UGB, within seven days of such action or approval.
9. The City and County will jointly prepare and co-adopt a comprehensive transportation system plan (TSP) for the UGA and implement the rural and urban street improvement standards in Urban and Urbanizable areas as described ~~in Section — of the~~ on pages 4 through 15 of the 1999 Hermiston TSP. This plan will include future arterial and connector street corridors, and will be amended to include local streets as "area plans" are prepared and adopted.
10. Amendments to the Comprehensive Plan and sections of the implementing ordinances applicable to the UGA may be initiated by the City, the County or an affected person. Such amendments shall be processed by the City and will be referred to the County by the City for review and comment at least ten (10) days prior to the City Planning Commission public hearing. The City will refer back to the County for review and comment any changes proposed in such amendments at least ten (10) days prior to adoption. The amendments will be adopted by ordinance by the City prior to referral to the County for co-adoption review, via the County Planning Commission.

The County Planning Commission and Board of Commissioners will hold public hearings on all proposed amendments following receipt of City recommendations or co-adoption referrals. The County will take final action on all proposed amendments within 120 days after the application is received by the County, unless the applicant allows this time limit to be waived, or in accordance with applicable future changes in Oregon Revised Statutes. If approved, the amendments will be co-adopted by ordinance into the County Comprehensive Plan and land use regulations, for application only within the UGB, following formal amendment by the City of its Comprehensive Plan and implementing ordinances.

Attempts to resolve differences between City and County versions of an acceptable amendment will occur prior to Board of Commissioners' adoption. Should the City and County fail to concur on amendment proposals, the Board of Commissioners' or City Council's decision may be appealed to the appropriate tribunal, following final action by the Board of Commissioners. Unless the County co-adopts amendments approved by the City, such amendments shall not apply within the UGB.

Annexations related to Plan amendments shall be regulated by ORS Chapter 222.

11. Decisions of the City Council regarding appeals of land use actions within Urban areas and amendments to the Comprehensive Plan and land use regulations for the UGA may be appealed to the appropriate tribunal. The applicant for a land use action or Comprehensive Plan amendment bears the burden of proof regarding the request or amendment and the responsibility of defending an appeal. The applicant affected by an appeal shall be required to notify the City in writing within seven days of receiving notice whether he/she desires to undertake his/her own defense or will withdraw the requested land use action or amendment. In the absence of such written communication, the City may either:
 - a) Tender the defense to the applicant, or
 - b) Elect to defend its decision at City expense, should the issue be determined to be of city-wide significance.

12. Decisions of the County Board of Commissioners regarding appeals of land use actions within Urbanizable Areas and amendments to the Comprehensive Plan, and land use regulations for the UGA may be appealed to the appropriate tribunal. The applicant for a land use action or Comprehensive Plan amendment bears the burden of proof regarding the request or amendment and the responsibility of defending an appeal. The applicant affected by an appeal shall be required to notify the County in writing within seven days of receiving notice whether he desires to undertake his own defense or will withdraw the requested land use action or amendment. In the absence of such written communication, the County may either:
 - a) Tender the defense to the applicant, or
 - b) Elect to defend its decision at County expense, should the issue be determined to be of county-wide significance.

The County Board of Commissioners and/or the City may elect to participate jointly or singly in all or a portion of the cost of defending such appeal, if the issues are determined to be of county-wide or city-wide significance.

13. The City shall be responsible for all planning and zoning activities in the Urban Area as defined in the Joint Management Agreement. The City shall be responsible for planning and zoning code enforcement in the Urban Area, except for nuisance abatement. In addition to City planning and zoning responsibilities for the Urban Area, the City also agrees to be responsible for the planning and zoning of Steelhead Park and Riverfront Park in the Urbanizable Areas. Steelhead Park is located on Umatilla County Tax Lot

4N28-17A-200. Riverfront Park is located on Umatilla County Tax Lot 4N28-08D-100.

F. URBAN AREA: SPECIAL PROVISIONS

1. The City zoning designations in the Urban areas shall be applied in accordance with the City Comprehensive Plan.
2. The City shall refer all annexation proposals to the County Planning Department and the Public Works Department for review and comment at least ten (10) days prior to the first public hearing on the annexation. The City will allow additional County review and comment changes to be made in the annexation proposal following initial or subsequent hearings. All annexations shall be governed by ORS Chapter 222.
3. The City shall also encourage property owners who have Urban land, which is adjacent to the City on two or more sides, to annex into the City.
4. The City may extend water, sewer and streets into the urban area:
 - a) After annexing the land into the City; or
 - b) In accordance with ORS 225, governing extraterritorial service extensions.
5. The City will provide notice to the County and allow the County a ten (10) day period within which to review and comment on any proposal to extend water, sewer and street services within the Urban area.
6. Any adjacent County road rights-of-way will be included within the boundaries of all annexations.
7. With County approval, the City may sponsor Local Improvement Districts (LID) for portions of County roads either entirely or partially within City limits. The County may also allow affected properties outside City limits to be included in such LIDs provided the properties are within the Urban area, and are therefore eligible for annexation and development in the near future.

ROAD IMPROVEMENTS AND TRANSFER

8. a) ~~Except for the streets shown below and subsection (b),~~ The City will neither accept nor maintain any County road within an annexed area or elsewhere in the Urban area unless and until it meets City road standards. The County may transfer control and responsibility for any

such improved County road to the City if agreed to by the County Board of Commissioners and the City Council.

~~The City agrees to accept and maintain the following County roads within the City, subject to verification by the City that the County roads and any affected bridges are in a condition acceptable to the City. City verification shall be provided in writing to the County Public Works Director.~~

- ~~a) — Harper Road (County Road 1242) between US 395 and River Road.~~
- ~~b) — North First Place (County Road 1275) between Geer Road and Jennie Street.~~
- ~~e) — South First Street (County Road 1245) between Orchard Avenue to the southeast boundary of the city limits just beyond the bridge.~~
- ~~d) — South Fourth Street (County Road 1193) between US Highway 395 to the bridge.~~

~~The City and County further agree that the City accepts South Fourth Street as described above subject to the execution of an agreement whereby the County shall fully fund the pedestrian/bicycle crossing on the South First Street bridge.~~

As an exception to the general proposition that County roads must meet City standards prior to being transferred to the City, the City agrees that it will accept ownership and maintenance responsibilities over County roads where at least two thirds (2/3) of the property abutting the road will lie within the City limits. The minimum length of a County road so transferred shall be one half (1/2) mile in lineal distance, or one mile of frontage on both sides of the road. In addition, upon annexation of land into the City, the County will transfer to the City jurisdiction and control over all public roads, alleys and rights-of-way lying in the area annexed.

The County and City will complete minor maintenance of the road prior to the City's acceptance of the road. The type of maintenance necessary will be agreed upon between County and City Public Works officials. Costs of the maintenance will be shared equally between the City and the County. (Section F.7 amended by City Ordinance No. 1912 on 11/25/96)

- b) When annexation to the City of Hermiston is proposed, as part of the county's testimony under Section F.2. of this agreement, the county shall identify any county roads directly adjacent to the property proposed for annexation. The county shall submit to the city a statement regarding the condition of the county roadway, the width of

paving (if any), depth of paving, and depth of subgrade base (if known). If it is determined that the relevant county road is in a state of reasonable repair, has a width of at least 24 feet of paving, and, and at least 50 feet of overall right-of-way width, the city will assume maintenance duties for the section of roadway adjacent to the annexed areas.

c) A number of parcels are located within the city limits but adjoin a county roadway. City has jurisdiction to permit development and redevelopment of such lands. County recognizes that city road standards are appropriate; however, this creates a challenge for county maintenance obligations. To resolve this conundrum, prior to approving any development onto a county roadway, city will require the following:

1. Applicant must obtain a Road Access Permit from County Public Works, and

2. If the roadway is improved to a city standard, e.g. curbs, sidewalks, stormdrains, etc., city will agree to maintenance duties for drainage improvements, curbs, gutters, and sweeping for the improved area. Pavement preservation shall remain the county's responsibility until full jurisdictional transfer is completed per the terms of 8(a).

3. Notwithstanding the transfer of maintenance duties over an improved roadway upon annexation and development, no county roadway shall be jurisdictionally transferred until the appropriate lineal distance requirements in 8(a) above are satisfied.

9. As a condition of land use, limited land use, expedited land division or annexation approval, the City will require the applicant to agree to improve to City standards any included or impacted portions of County roads by either:

a) Irrevocable consent to participate in a future Local Improvement District to improve the road to City standards, shared by all affected property owners, or

b) Actual construction to City standards prior to development of the said property.

10. Streets platted within the Urban area after the effective date of the agreement shall be designed and constructed to City standards.
11. The City is responsible for public facilities planning within the Urban area, particularly with regard to extension of water, sewers, and minor streets.
12. For the construction of a conventional single-family dwelling or manufactured home on an existing lot according to the City land use regulations, the City may allow such development to proceed providing:
 - a) The lot is of sufficient size to qualify for a septic tank permit from DEQ;
 - b) The property owner agrees in writing to annex into the City upon the City's request; and
 - c) The property owner presents an access and utilities plan illustrating the location of future internal roadways and utility easements needed to ultimately serve the developing lot and contiguous properties. To estimate access and utility needs, Properties zoned R1 shall be assumed to be divided into lots of 9,000 square feet; property zoned R3 or R4 shall be divided into lots of 6,000 square feet; property zoned R2 shall be divided into lots of 7,500 square feet.
13. Except as provided in Section F. 12, above, all other development actions in residential zones will require the property owner to annex to the City and provide the necessary water, sewer, and street improvements as provided by the City's land use regulations. If the City determines that annexation is not possible, the City will require the provision of the necessary water, sewer, and street improvements as well as a written agreement from the property owner consenting to annex into the City upon the City's request.
14. Industrial and commercial properties may be developed without annexation, but only at rural densities with adequate site area for and State approval of septic systems and wells.

G. URBANIZABLE AREA: SPECIAL PROVISIONS

1. The County zoning designations in the Urbanizable areas shall be applied in accordance with the City Comprehensive Plan.
2. The City will not annex land in the Urbanizable area, without first converting it to Urban status.

3. The City will not extend water, sewer, or other urban services into the Urbanizable Area, except in cases of proven health hazard authorized by the State Health Division. Such extensions will be done in accordance with ORS 225, governing extraterritorial service extensions, and following ten (10) day prior notice to the County for review and comment.

H. CONVERSION OF LANDS FROM URBANIZABLE TO URBAN

- ~~1. Conversion of property(ies) from Urbanizable status to Urban status may be considered at any time as a major plan amendment, which shall be processed under Section E-10 above.~~
12. Converted areas should include the service areas on both sides of an included County road, for ease and equitability in financing necessary road upgrading associated with urban development of the area.
23. The City will prepare detailed land use and public facilities plans for each such conversion area prior to approval of and as part of the conversion plan amendment.
34. The City will annually review the stock of vacant land in Urban status, and will initiate conversion of Urbanizable land as needed, so as to include a 5-year inventory of adequate lands for needed housing, commercial, industrial, and community service development.
45. Conversion areas must be contiguous to existing urban areas or the city limits.
56. Conversion of property(ies) from Urbanizable status to Urban status will only be considered in conjunction with an annexation request except when initiated by the City as part of its annual review process noted in section H.4, above. The process will follow the City's plan amendment process and annexation regulations, with notice to the County per subsection F.2.

I. REVIEW, AMENDMENT, SEVERABILITY, TERMINATION OF AGREEMENT

1. Scheduled Reviews of the JMA

The County shall be responsible for initiating a joint review of this agreement at a minimum of every five (5) years to evaluate the effectiveness of the processes set forth, address new matters of state law, or changed conditions within the urban growth boundary.

2. Amendments to the JMA

This agreement may be amended by initiation of either party to the agreement following the procedures outlined below.

a. Request

1. The party which seeks the amendment shall submit a formal request for amendment, describing the proposed change and why the change is necessary.
2. The responding agency shall schedule a review of this request within 30 days of receipt.

b. Resolution, Modification and Mediation

1. Both parties shall make good faith efforts to resolve requests to amend this agreement.
2. The responding agency may approve, deny or suggest modifications to the amendment.
3. Either party to the agreement may request the services of an outside mediator to help resolve disputes that may arise out of the implementation or amendment of this agreement.

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The provisions of the agreement are severable. If an article, sentence, clause or phrase shall be adjudged by a court of competent jurisdiction to be invalid, the decision shall not affect the validity of the remaining portions of this agreement.

4. Termination of JMA

This agreement may be terminated by any of the parties following procedures provided.

a. Public Hearing Notice and Public Comment

1. A public hearing shall be called by the party considering termination, giving the other party notice of hearing at least thirty (30) days prior to the scheduled hearing date. The thirty (30) day period shall be used by both parties to seek resolution of differences.

2. Public notice of the hearing shall be in accordance with applicable Oregon statutes and administrative rules, but not less than twenty-one (21) days prior to the hearing.
3. The party moving for termination shall state, in the public notice and at the hearing, the reasons for termination and the effect of the action on the UGA.
4. Public comment shall be received regarding the action and considered by the party in its decision.

b. Conflict Resolution

Prior to a final decision to terminate the agreement, the City and County shall agree to enter into a conflict resolution process which will be established by the Department of Land Conservation and Development.

c. Final Decision

1. The governing body of the terminating party shall vote to decide on termination on the established date for termination. If the vote is to end the agreement, written notice of the decision shall be provided to all affected parties including the Director of the Oregon Department of Land Conservation and Development.
2. The established date of termination shall be at least thirty (30) days after the public hearing in order to provide an additional time period for resolution of differences.
3. If resolution cannot be reached, a replacement agreement shall be developed as required by ORS 195.020.

APPROVED on behalf of the CITY OF HERMISTON this _____ day of _____
20____.

Mayor

(City Seal)

ATTEST:

City Recorder

APPROVED on behalf of UMATILLA COUNTY this ____ day of _____,
20____.

Umatilla County Board of Commissioners

William J. Elfering, Commissioner

(County Seal)

George L. Murdock, Commissioner

W. Lawrence Givens, Commissioner

ATTEST:

Office of County Records

Records Officer

APPROVED AS TO FORM:

City Attorney

County Counsel

Clean
Version

**HERMISTON PLANNING AREA JOINT MANAGEMENT
AGREEMENT**

CITY OF HERMISTON

UMATILLA COUNTY

A. PARTIES

This Agreement is made and entered into this _____ day of _____, 20____, by and between the City of Hermiston, an Oregon Municipal Corporation, hereinafter referred to as "City", and Umatilla County, a political subdivision of the State of Oregon, hereinafter referred to as "County".

B. RECITALS

1. This Joint Management Agreement is the culmination of a lengthy planning process and a series of actions intended, to facilitate the orderly and efficient development of land in and around the City of Hermiston. Such actions include the preparation and adoption of city's comprehensive plan, the cooperative establishment of an urban growth boundary and urban/urbanizable areas, coordination with affected governmental units and mutual review of the City and County Comprehensive Plan. This process has been accomplished pursuant to Oregon's Statewide Land Use Planning Program as enumerated by Oregon Revised Statutes (ORS) and the Oregon Land Conservation and Development Commission. (LCDC)
2. The City adopted a Comprehensive Plan, hereinafter referred to as the "Comprehensive Plan", on the 12th day of October 1992, to replace the Comprehensive Plan of 1983 and to comply with applicable Statewide Planning Goals.
3. The City and County desire to plan for the orderly management and development of the entire Hermiston Planning Area as provided in their respective Comprehensive Plans and through their joint efforts and cooperation. Therefore, they enter into this Joint Management Agreement pursuant to Oregon Statewide Planning Law and as authorized by ORS 215.100.
4. The consideration for this Agreement is the mutual benefit of the City and County.

NOW THEREFORE, THE CITY AND COUNTY AGREE AS FOLLOWS:

C. DEFINITIONS

1. Area of Mutual Concern - This area includes the City and unincorporated land around the City. It extends north to Baggett Lane, east to Edwards Road, south to Feedville Road and I-84, and west to I-82 (see Exhibit B).
2. Comprehensive Plan - A plan adopted by the City or County which meets the requirements of ORS 197.015; generally, a coordinated land use map and policy statements interrelating all functional and natural systems and activities relating to the use of lands.
3. Contiguous - For the purpose of this agreement, contiguous shall be defined as touching or adjoining.
4. Days - In all cases, the reference to days in this agreement shall be understood to mean calendar days.
5. Land Use Actions - Land Use and Limited Land Use Decisions defined by ORS 197.015; generally a decision by the City or County applying standards of the comprehensive plans or land use regulations to particular pieces of property. Examples include, but are not limited to variances, conditional use permits, partitions, subdivisions, planned unit developments, road dedications and vacations, and amendments to the zoning map for specific properties.
6. Land Use Regulation - County or City zoning ordinances, subdivision ordinances adopted under ORS 92.044 or 92.046, or similar ordinances establishing standards for implementing the comprehensive plan. For the purpose of this JMA, substantive provisions of land use regulations shall be those sections of the ordinance establishing outright uses, conditional uses, and zone requirements such as minimum lot sizes, the zoning map, and design standards and specifications for required improvements and public infrastructure.
7. Legislative - An amendment to the City or County comprehensive plans and/or land use ordinances or a plan or zone maps that applies to a large number of parcels of land.
8. Major improvement projects - Projects that involve capital improvements for new or replacement facilities. These projects are budgeted as separate line items in the local jurisdiction's capital improvement budget. They do not include routine facilities maintenance, such as cleaning, pavement patching, or repairs.

9. Periodic Review - A comprehensive plan and ordinance review process, which is mandated by the state for cities over 2,500 people and optional for cities with smaller populations. The process involves an assessment of plan and ordinance deficiencies, development of a work plan with the Oregon Department of Land Conservation and Development (DLCD) to address the deficiencies, and the completion of the work plan.
10. Urban Area and Urbanizable Area - The City's 1983 Comprehensive Plan has designated areas outside but adjacent to the City's corporate limits, and within the jurisdiction of the County, as "Urban Areas" and "Urbanizable Areas". Both areas are within the designated "Urban Growth Boundary". These terms are defined as follows:
 - a) Urban Area means the unincorporated portion of the Urban Growth Boundary immediately adjacent to the City's corporate limits where urban development in the near future is most likely to occur and where a full complement of urban services, including water and sewer, can be extended readily (see Exhibit A).

In addition, properties included in this area are characterized by one or more of the following:

1. Property is planned or committed to urban level development.
 2. Property owner has indicated an interest in annexation.
 3. Eventual annexation will result in the creation of more rational and easily identifiable city limits.
- b) Urbanizable Area means outlying unincorporated areas of the Urban Growth Boundary not immediately needed for urban development and to which urban level services cannot be extended in an orderly and efficient manner, at this time.
11. Urban Growth Area (UGA) - That unincorporated area between the City Limits and the Urban Growth Boundary in which urban services and facilities can be extended and development at urban intensity and density will occur.
12. Urban Growth Boundary (UGB) means the boundary encompassing land needed to accommodate the growth of the CITY over the next 20 years (see Exhibit A).

13. Words and phrases used in this Joint Management Agreement shall be construed in accordance with the City's Comprehensive Plan, Zoning Ordinance, Subdivision Ordinance, and Annexation Ordinance.

D. AREA OF MUTUAL CONCERN

1. The City and County will send each other notice on all pending land use actions requiring public hearings and on all decisions on such requests as well as staff permit approvals within the Area of Mutual Concern and outside of the UGB in the same manner as for areas within the UGB pursuant to Section E.
2. The City and County will coordinate with each other regarding major improvement projects, road routings, or road right-of-way vacations within the Area of Mutual Concern.
3. The City and County will review and comment on the development and future amendment of the City and County comprehensive plans and land use regulations for the Area of Mutual Concern.
4. The County will adopt by ordinance as an amendment to the Land Development Code any FAA-approved, City adopted amendments to the boundaries and standards of the City's Airport Hazard Zone, as mapped by the City with respect to the area outside the City's corporate limits.
5. The City will require all applicants whose property requires access to a County road to obtain a necessary access permit from the County Road Department before creating, altering, or significantly expanding the use of access to the County road in question.

To improve access regulation, and therefore public safety, the City will send notification directly to the County Road Department on all land use requests requiring public hearings and on actions on such requests as well as all staff permit approvals, in the same manner as provided in sections E-4 through E-8, when the property involved requires access to a County Road within the City limits.

E. AREAS WITHIN THE UGB, OVERALL PROVISIONS

1. The County shall adopt by ordinance as an amendment to the County Comprehensive Plan, the City's Comprehensive Plan including the Urban Growth Boundary, Plan Map, and Plan Policies to apply to land within the UGB.

2. The County shall adopt by ordinance as an amendment to the County's Land Development Code for application within the Urban areas only:
 - a) City land use regulations.
 - b) City zoning designations as described in Section F.
3. All applications for land use actions within the Urban Area shall be made through the City's Planning Department. Land use actions within Urban Areas shall be reviewed according to the procedures and requirements of the City's land use regulations and associated fee schedule. Although it is not currently possible to transfer building inspection authority and administration to the City within the Urban Area, the City and County agree to cooperatively evaluate this transfer of authority if it becomes feasible in the future.
4. All applications for land use actions within the Urbanizable Area shall be made through the County's Planning Department. Land use actions within Urbanizable areas shall be reviewed according to the procedures described in sections E-5 through E-8. The County shall be responsible for planning and zoning code enforcement in the Urbanizable Areas.
5. The County Planning Department will refer to the City Planning Department for review and comment all land use requests within the Urbanizable area for which a public hearing is required. Such notice shall be sent at least ten (10) days prior to the date of the first public hearing on each request. The County shall send the City the staff reports on such requests at least one week prior to the first public hearing.
6. If adequate time is available, the City Planning Department will review and comment on each such UGB land use action notice; otherwise the City Manager, or designee, will review and comment on the behalf of the City Planning Commission, and will so notify them at the next City Planning Commission meeting. The City will relay to the County comments on each such request by the date of the first public hearing or at said public hearing, even if the City's response is "no comment."
7. The County Planning Department will refer back to the City prior to final action any such land use action request in the Urbanizable area for which amendments by the applicant or County were made subsequent to the first or additional public hearings together with relevant new staff comments. The same ten-day notice period will apply.

8. The County Planning Department will notify the City Planning Department in writing of all actions on such requests as well as all staff permit approvals within the UGB, within seven days of such action or approval.
9. The City and County will jointly prepare and co-adopt a comprehensive transportation system plan (TSP) for the UGA and implement the rural and urban street improvement standards in Urban and Urbanizable areas as described on pages 4 through 15 of the 1999 Hermiston TSP. This plan will include future arterial and connector street corridors, and will be amended to include local streets as "area plans" are prepared and adopted.
10. Amendments to the Comprehensive Plan and sections of the implementing ordinances applicable to the UGA may be initiated by the City, the County or an affected person. Such amendments shall be processed by the City and will be referred to the County by the City for review and comment at least ten (10) days prior to the City Planning Commission public hearing. The City will refer back to the County for review and comment any changes proposed in such amendments at least ten (10) days prior to adoption. The amendments will be adopted by ordinance by the City prior to referral to the County for co-adoption review, via the County Planning Commission.

The County Planning Commission and Board of Commissioners will hold public hearings on all proposed amendments following receipt of City recommendations or co-adoption referrals. The County will take final action on all proposed amendments within 120 days after the application is received by the County, unless the applicant allows this time limit to be waived, or in accordance with applicable future changes in Oregon Revised Statutes. If approved, the amendments will be co-adopted by ordinance into the County Comprehensive Plan and land use regulations, for application only within the UGB, following formal amendment by the City of its Comprehensive Plan and implementing ordinances.

Attempts to resolve differences between City and County versions of an acceptable amendment will occur prior to Board of Commissioners' adoption. Should the City and County fail to concur on amendment proposals, the Board of Commissioners' or City Council's decision may be appealed to the appropriate tribunal, following final action by the Board of Commissioners. Unless the County co-adopts amendments approved by the City, such amendments shall not apply within the UGB.

Annexations related to Plan amendments shall be regulated by ORS Chapter 222.

11. Decisions of the City Council regarding appeals of land use actions within Urban areas and amendments to the Comprehensive Plan and land use regulations for the UGA may be appealed to the appropriate tribunal. The applicant for a land use action or Comprehensive Plan amendment bears the burden of proof regarding the request or amendment and the responsibility of defending an appeal. The applicant affected by an appeal shall be required to notify the City in writing within seven days of receiving notice whether he/she desires to undertake his/her own defense or will withdraw the requested land use action or amendment. In the absence of such written communication, the City may either:
 - a) Tender the defense to the applicant, or
 - b) Elect to defend its decision at City expense, should the issue be determined to be of city-wide significance.

12. Decisions of the County Board of Commissioners regarding appeals of land use actions within Urbanizable Areas and amendments to the Comprehensive Plan, and land use regulations for the UGA may be appealed to the appropriate tribunal. The applicant for a land use action or Comprehensive Plan amendment bears the burden of proof regarding the request or amendment and the responsibility of defending an appeal. The applicant affected by an appeal shall be required to notify the County in writing within seven days of receiving notice whether he desires to undertake his own defense or will withdraw the requested land use action or amendment. In the absence of such written communication, the County may either:
 - a) Tender the defense to the applicant, or
 - b) Elect to defend its decision at County expense, should the issue be determined to be of county-wide significance.

The County Board of Commissioners and/or the City may elect to participate jointly or singly in all or a portion of the cost of defending such appeal, if the issues are determined to be of county-wide or city-wide significance.

13. The City shall be responsible for all planning and zoning activities in the Urban Area as defined in the Joint Management Agreement. The City shall be responsible for planning and zoning code enforcement in the Urban Area, except for nuisance abatement. In addition to City planning and zoning responsibilities for the Urban Area, the City also agrees to be responsible for the planning and zoning of Steelhead Park and Riverfront Park in the Urbanizable Areas. Steelhead Park is located on Umatilla County Tax Lot

4N28-17A-200. Riverfront Park is located on Umatilla County Tax Lot 4N28-08D-100.

F. URBAN AREA: SPECIAL PROVISIONS

1. The City zoning designations in the Urban areas shall be applied in accordance with the City Comprehensive Plan.
2. The City shall refer all annexation proposals to the County Planning Department and the Public Works Department for review and comment at least ten (10) days prior to the first public hearing on the annexation. The City will allow additional County review and comment changes to be made in the annexation proposal following initial or subsequent hearings. All annexations shall be governed by ORS Chapter 222.
3. The City shall also encourage property owners who have Urban land, which is adjacent to the City on two or more sides, to annex into the City.
4. The City may extend water, sewer and streets into the urban area:
 - a) After annexing the land into the City; or
 - b) In accordance with ORS 225, governing extraterritorial service extensions.
5. The City will provide notice to the County and allow the County a ten (10) day period within which to review and comment on any proposal to extend water, sewer and street services within the Urban area.
6. Any adjacent County road rights-of-way will be included within the boundaries of all annexations.
7. With County approval, the City may sponsor Local Improvement Districts (LID) for portions of County roads either entirely or partially within City limits. The County may also allow affected properties outside City limits to be included in such LIDs provided the properties are within the Urban area, and are therefore eligible for annexation and development in the near future.

ROAD IMPROVEMENTS AND TRANSFER

8. a) The City will neither accept nor maintain any County road within an annexed area or elsewhere in the Urban area unless and until it meets City road standards. The County may transfer control and responsibility

for any such improved County road to the City if agreed to by the County Board of Commissioners and the City Council.

As an exception to the general proposition that County roads must meet City standards prior to being transferred to the City, the City agrees that it will accept ownership and maintenance responsibilities over County roads where at least two thirds (2/3) of the property abutting the road will lie within the City limits. The minimum length of a County road so transferred shall be one half (1/2) mile in lineal distance, or one mile of frontage on both sides of the road. In addition, upon annexation of land into the City, the County will transfer to the City jurisdiction and control over all public roads, alleys and rights-of-way lying in the area annexed.

The County and City will complete minor maintenance of the road prior to the City's acceptance of the road. The type of maintenance necessary will be agreed upon between County and City Public Works officials. Costs of the maintenance will be shared equally between the City and the County. (Section F.7 amended by City Ordinance No. 1912 on 11/25/96)

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- c) A number of parcels are located within the city limits but adjoin a county roadway. City has jurisdiction to permit development and redevelopment of such lands. County recognizes that city road standards are appropriate; however, this creates a challenge for county maintenance obligations. To resolve this conundrum, prior to approving any development onto a county roadway, city will require the following:
 - 1. Applicant must obtain a Road Access Permit from County Public Works, and
 - 2. If the roadway is improved to a city standard, e.g. curbs, sidewalks, stormdrains, etc., city will agree to

maintenance duties for drainage improvements, curbs, gutters, and sweeping for the improved area. Pavement preservation shall remain the county's responsibility until full jurisdictional transfer is completed per the terms of 8(a).

3. Notwithstanding the transfer of maintenance duties over an improved roadway upon annexation and development, no county roadway shall be jurisdictionally transferred until the appropriate lineal distance requirements in 8(a) above are satisfied.
9. As a condition of land use, limited land use, expedited land division or annexation approval, the City will require the applicant to agree to improve to City standards any included or impacted portions of County roads by either:
 - a) Irrevocable consent to participate in a future Local Improvement District to improve the road to City standards, shared by all affected property owners, or
 - b) Actual construction to City standards prior to development of the said property.
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12. For the construction of a conventional single-family dwelling or manufactured home on an existing lot according to the City land use regulations, the City may allow such development to proceed providing:
 - a) The lot is of sufficient size to qualify for a septic tank permit from DEQ;
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2. Public notice of the hearing shall be in accordance with applicable Oregon statutes and administrative rules, but not less than twenty-one (21) days prior to the hearing.
3. The party moving for termination shall state, in the public notice and at the hearing, the reasons for termination and the effect of the action on the UGA.
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Prior to a final decision to terminate the agreement, the City and County shall agree to enter into a conflict resolution process which will be established by the Department of Land Conservation and Development.

c. Final Decision

1. The governing body of the terminating party shall vote to decide on termination on the established date for termination. If the vote is to end the agreement, written notice of the decision shall be provided to all affected parties including the Director of the Oregon Department of Land Conservation and Development.

2. The established date of termination shall be at least thirty (30) days after the public hearing in order to provide an additional time period for resolution of differences.
3. If resolution cannot be reached, a replacement agreement shall be developed as required by ORS 195.020.

APPROVED on behalf of the CITY OF HERMISTON this ____ day of _____
20____.

Mayor

(City Seal)

ATTEST:

City Recorder

APPROVED on behalf of UMATILLA COUNTY this ____ day of _____,
20____.

Umatilla County Board of Commissioners

William J. Elfering, Commissioner

(County Seal)

George L. Murdock, Commissioner

W. Lawrence Givens, Commissioner

ATTEST:

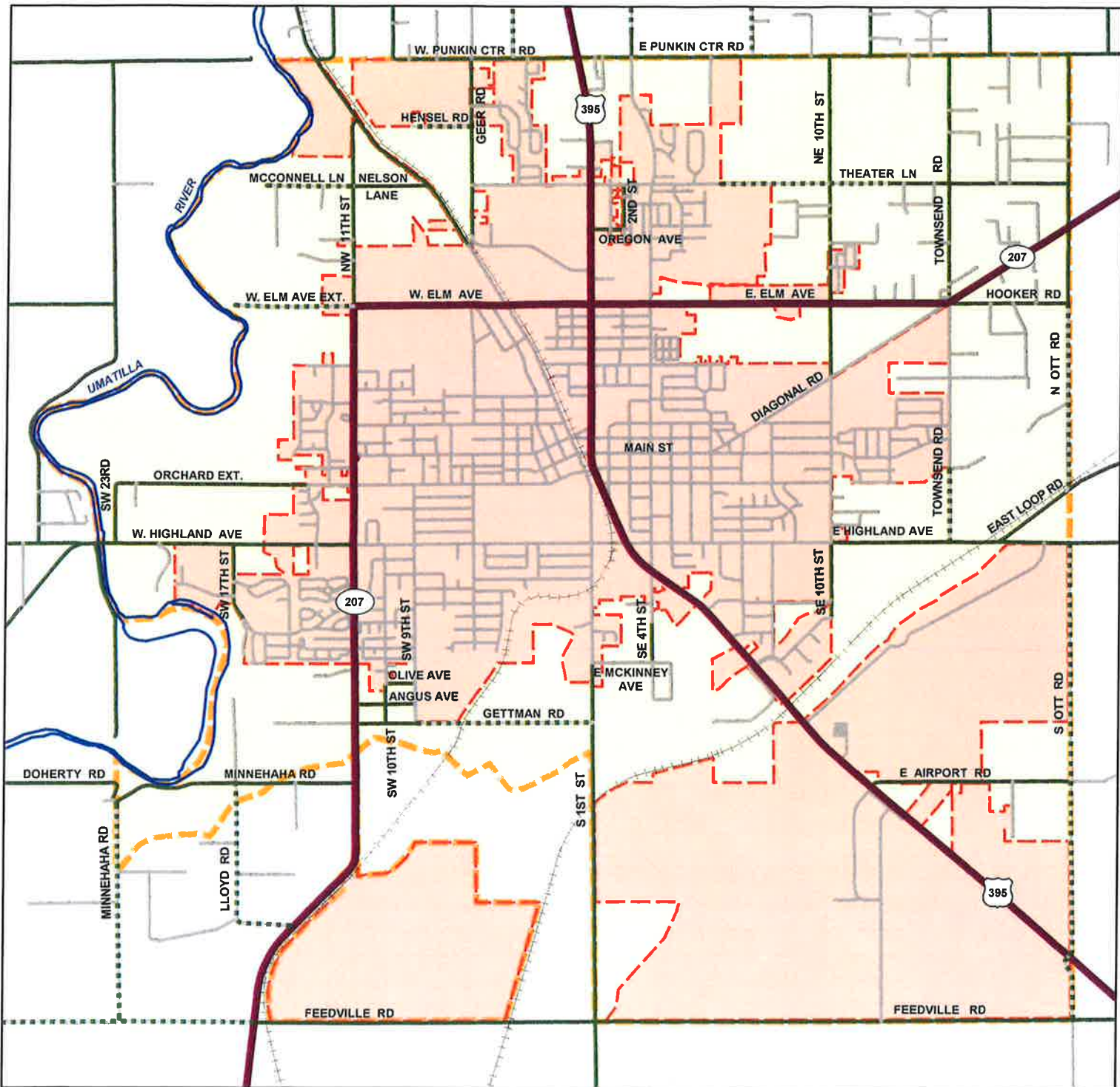
Office of County Records

Records Officer

APPROVED AS TO FORM:

City Attorney

County Counsel

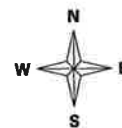


CITY OF HERMISTON, OREGON

0 1000 2000 3000
Feet

Legend

- | | | | |
|--|-----------------------|---|-------------------------------|
|  | City Limits |  | Roads & Streets |
|  | Urban Growth Boundary |  | County Maintained Paved Road |
|  | State Highway |  | County Maintained Gravel Road |
|  | Railroad | | |



DATE: 5/2/16

MAP DISCLAIMER: No warranty is made by Umatilla County as to the accuracy, reliability or completeness of this data. Map should be used for reference purposes only. Not for legal use. Created by Julie Alford, Umatilla County Planning Department
y:\workspace\planning\projects\CountyRoadMaps\HermistonUGB_roads.lyr

County Roads In Hermiston City Limits and UGB
Updated 5/26/16

Hermiston	Rd #	City Paved	City Gravel	Urban Growth Paved	Urban Growth Gravel
Townsend Rd	1217			1.05	0.32
Hooker Rd	1214			0.49	
10th St (NE & SE)	1219	0.57		1.11	
1st Pl.	1275	1.04			
Hensel Rd	1248		0.2		0.05
Theater Ln	1244		0.2	0.75	0.60
Oregon Ave	1228	0.14			
2nd St	1227	0.19			
Geer Rd	1249	0.28		0.49	
McConnell Ln	1234				0.32
Nelson Ln	1234			0.32	
11th St (NW)	1247	0.5		0.40	
W. Elm Ave	1230				0.50
W. Highland Ext	1215	0.37		0.67	
W. Orchard Ave	1238			0.75	
SW 23rd St	1238			0.25	
SW 17th St	1189	0.31			
Minnehaha Rd	1194			0.71	
Lloyd Rd	1191				0.09
Gettman Rd	1196			0.25	0.75
SW 10th St	1297	0.09		0.15	
Angus Ave	1358			0.23	
Olive Ave	1298	0.03		0.07	
SE 4th St	1193			0.18	
E Airport Rd	1202	0.35		0.49	
E Highland Ave.	1190			0.71	
E. Loop Rd	1190			0.38	
E Highland Ext	1198			0.31	
		3.87	0.4	9.76	2.63
* Urban Growth Boundary follows centerline of road					
N. Ott Rd*	1211			1.00	0.83
Punkin Center Rd *	1250	0.45		2.41	
Doherty Rd *	1194				0.08
Minnehaha Rd *	1187				0.28
S 1st St *	1245	0.16		1.42	
Feedville Rd *	1000	1.97		0.05	
S Ott Rd *	1211		1.48		0.52
		2.58	1.48	4.88	1.71