

#### **MEETING NOTICE AND AGENDA**

#### JOINT CITY OF TUALATIN AND CITY OF WILSONVILLE COUNCIL WORK SESSION



Basalt Creek Concept Plan Joint Meeting #3

Wilsonville City Hall-Council Chambers 29799 SW Town Center Loop E Wilsonville, Oregon 97070

December 2, 2014 6:00 p.m.

#### <u>Purpose</u>

- Update Tualatin and Wilsonville Councilors on the current status of the project
- Present Base Case Scenario and evaluation results
- Provide input to two alternative scenarios
- A. CALL TO ORDER
- B. WELCOME AND INTRODUCTIONS
- C. PRESENTATIONS
  - 1. Project Update
  - 2. Building the Base Case
  - 3. Scenario Development
  - 4. Base Case Scenario
    - a. Transportation
    - b. Land Use
    - c. Wet Infrastructure

#### D. ROUNDTABLE DISCUSSIONS

1. Discussion: After hearing about the Base Case Scenario, what elements should the project team consider including in two additional alternative scenarios?

- E. **NEXT STEPS**
- F. **ADJOURNMENT**



# MEMORANDUM CITY OF TUALATIN CITY OF WILSONVILLE



**TO:** Honorable Mayors and Members of the City Councils

**THROUGH:** Sherilyn Lombos, Tualatin City Manager, and Bryan Crosgrove, Wilsonville City Manager

FROM: Alice Cannon, Assistant City Manager, and Cindy Hahn, Associate Planner, Tualatin

Chris Neamtzu, Planning Director, and Miranda Bateschell, Planning Manager, Wilsonville

**DATE:** 12/02/2014

SUBJECT: Basalt Creek Concept Plan Project – Joint Work Session Discussion with the City of Tualatin and

Wilsonville Mayors and Councils

#### ISSUE BEFORE THE COUNCIL:

The purpose of tonight's meeting is:

- Update Tualatin and Wilsonville Councilors on the current status of the project
- Present the Base Case Scenario and evaluation results
- Provide input to staff to create two alternative scenarios

Tonight's presentation is included as an attachment.

#### **EXECUTIVE SUMMARY:**

#### **Project Update**

At the last individual Council briefings in September, staff and the consultant team shared the land suitability analysis identifying areas of the Basalt Creek planning area that are most suitable for development based on natural and man-made constraints, parcel size, slope, and various other factors. After completing the land suitability analysis, staff started to look at the type of land use that might be most suitable in different parts of the planning area, and how those land uses might be served by roads and wet infrastructure (sewer, storm, water). Other tasks that went into developing the Base Case Scenario include:

- identifying land uses that might be appropriate in the area
- sketching in a conceptual local road network
- overlaying conceptual wet infrastructure (sewer, storm, water)
- evaluating the scenario for impacts on transportation and public utility systems
- identifying a base case jurisdictional boundary between Tualatin and Wilsonville; for simplicity sake, this boundary is located along the East-West Arterial as discussed in the 2004 Metro ordinance.

#### **Base Case Scenario and Evaluation Results**

The Base Case Scenario includes a range of land uses such as light industrial and warehousing, office park, industrial tech/flex space, single-family residences, townhomes and apartments, neighborhood commercial, and undeveloped natural areas. A base case jurisdictional boundary, as well as local roads, were included so that a preliminary design for wet infrastructure, which usually follows road right-of-way, could be developed.

New households, jobs and trips generated in the Transportation Refinement Plan and the Urban Growth

Report were used at guides or "sideboards" in choosing different land uses for the planning area. The Base Case Scenario results in substantially fewer new households and substantially more jobs than either the Transportation Refinement Plan forecast or the Urban Growth Report forecast. The number of new trips, while on the high end of the range, is within the range of growth anticipated by Metro forecasts and a bit lower than the Transportation Refinement Plan forecast. Staff has confirmed with Metro that a lower number of households than in the forecast is acceptable.

In the Base Case, potable water and sewer infrastructure are laid out so that Tualatin and Wilsonville provide these services to their parts of the planning area, with a jurisdictional boundary following the East-West Arterial as discussed in the 2004 Metro ordinance. Stormwater is designed to flow with gravity and drains to Wilsonville. The Base Case Scenario offers a starting point for discussions about infrastructure services, costs, and jurisdictional boundary.

Preliminary cost estimates for the Base Case infrastructure, including sewer, stormwater and potable water, are \$44.6 million for Tualatin and \$32.4 million for Wilsonville. These cost estimates provided in the attached presentation do not include all existing system upgrades that might be needed for water and stormwater, or operation and maintenance costs for any of the wet infrastructure systems. The estimates are at a very conceptual level for comparative purposes. Staff and consultants will be available at the meeting to answer more detailed questions about costs.

#### **Alternative Scenarios**

In order to create two additional alternative scenarios, the project team needs input from the Councils on the following:

- Feedback or questions on the Base Case Scenario, and
- Input on changes in the Base Case to evaluate in the alternative scenarios.

#### **Next Steps**

Another Joint City Council meeting is planned for February 2015, followed by a public open house to discuss alternative scenarios in March.

Attachments: PowerPoint

# Joint Council Meeting #2

December 2, 2014

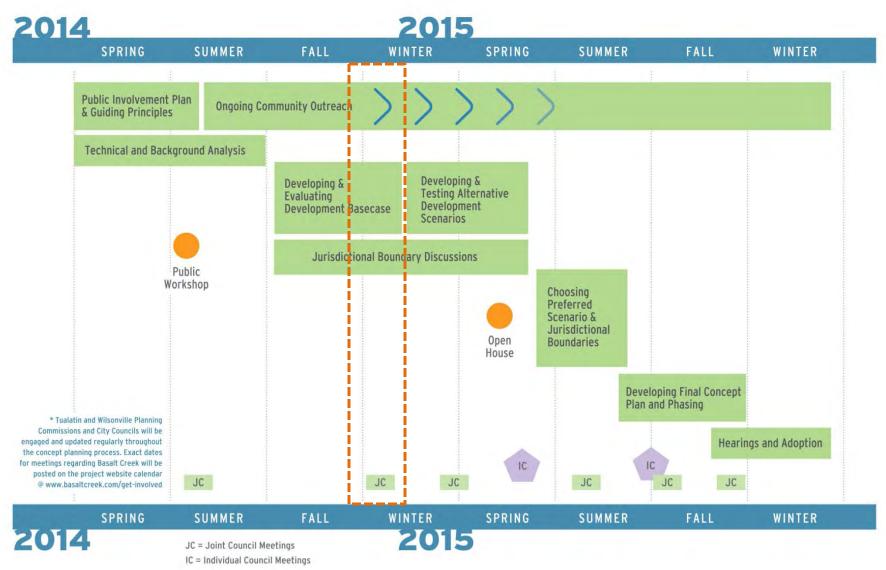


# Agenda

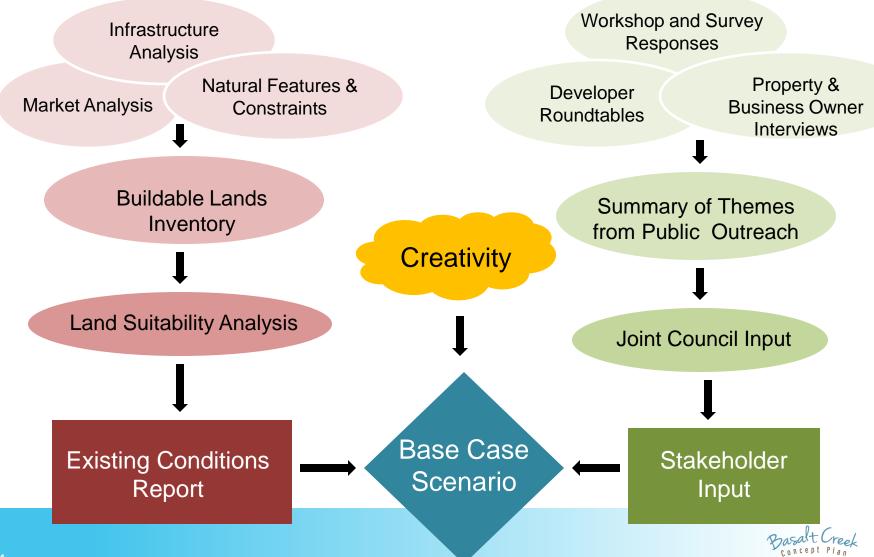
- I. Project Update
- II. Building the Base Case
- III. Base Case Scenario
  - a) Land Use
  - b) Transportation
  - c) Wet Infrastructure
- IV. Next Steps
- V. Discussion



# **Project Update**



# Building the Base Case



#### Building the Base Case

## **Base Case Objectives**



- Design principles focused on conventional land uses types
- Started with the regional forecast and adjusted to be more employment focused
  - Understand impacts on the transportation system and trip sideboards
- Develop an initial city boundary, based on Metro ordinance
  - Understand infrastructure cost and service implications



# Building the Base Case Stakeholder Input

- Appropriate transitions between land uses
- Concerns about cut-through traffic
- Desire for green spaces and trails
- Small-scale retail to serve local neighborhoods and workers
- Market demand for updated industrial development type
- Explore creative, innovative land use solutions



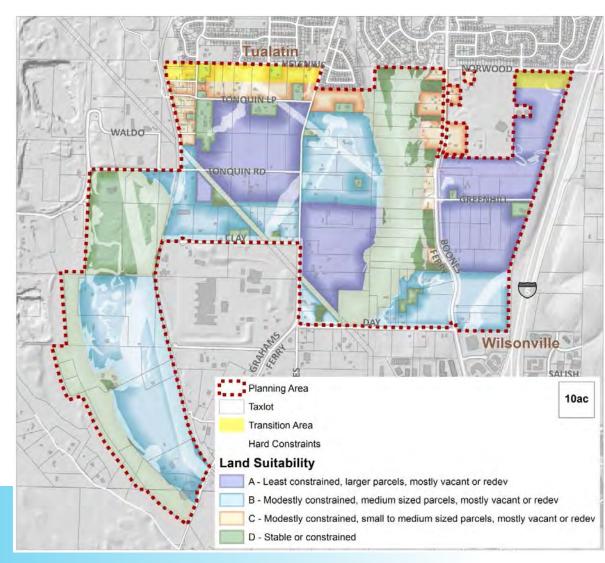




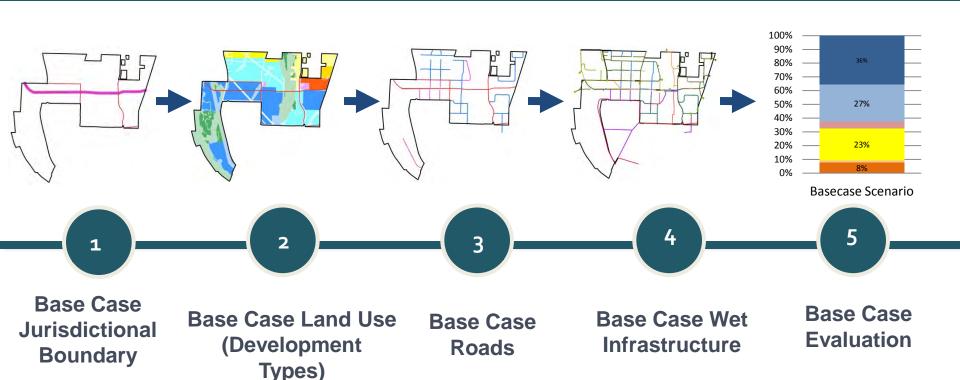


# Building the Base Case Land Suitability Analysis

Suitability Category	Vacant Acres		
А	197		
В	144		
С	38		
D	12		



# Building the Base Case Scenario Development





# Building the Base Case Scenarios are Crash Test Dummies







# BASE CASE SCENARIO: LAND USE (DEVELOPMENT TYPES)

# Light Industrial and Warehousing

#### Land Use Mix

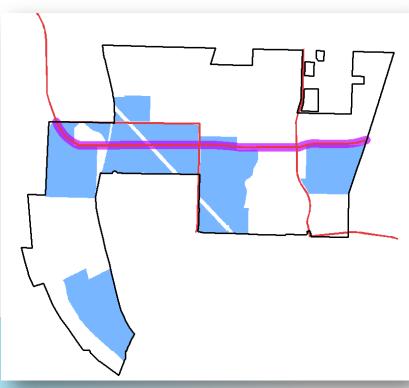
- Retail 1%
- Office 5%
- Industrial 94%

#### Structure

Ave. height: 1-2 stories







## Office Park/Flex

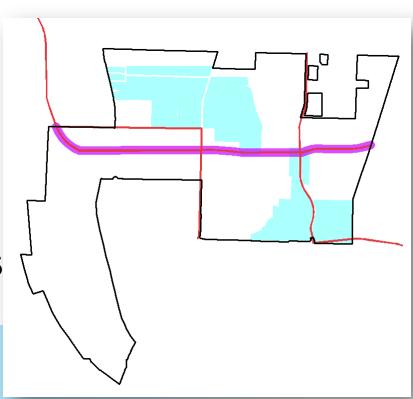
## Land Use Mix

- Retail 13%
- Office 31%
- Industrial 56%

#### Structure

Ave. height: 1-4 stories





## **Neighborhood Commercial**

#### Land Use Mix

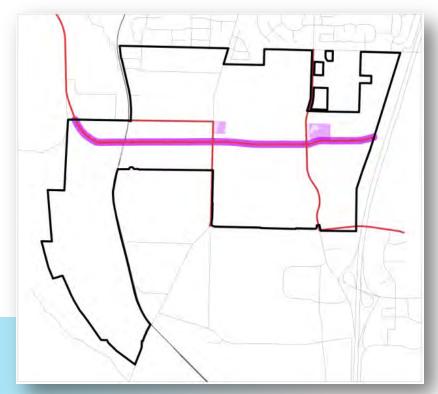
- Commercial
  - Retail 77%
  - Office 7%
- Residential 3%
- Industrial 13%

#### Structure

Ave. height: 1 story











#### Land Use Mix

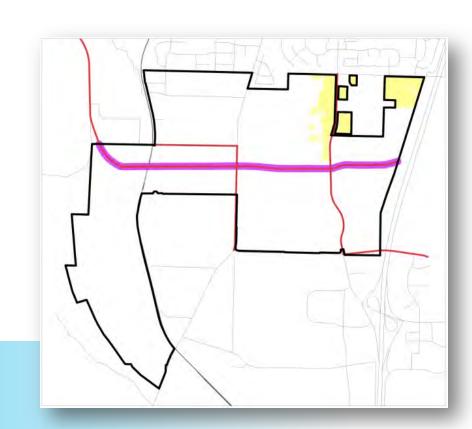
Single Family

- 6,000 sf: 12%

- 7,500 sf: 88%

#### Structure

• Ave. height: 2 stories



## Suburban Residential

Single Family

Land Use Mix

-5,000 sf: 50%

-6,000 sf: 40%

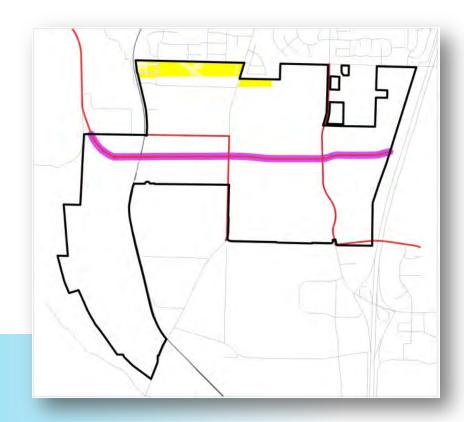
-7,500 sf: 10%

#### Structure

Ave. height: 2 stories







# Compact Neighborhood

#### Land Use Mix

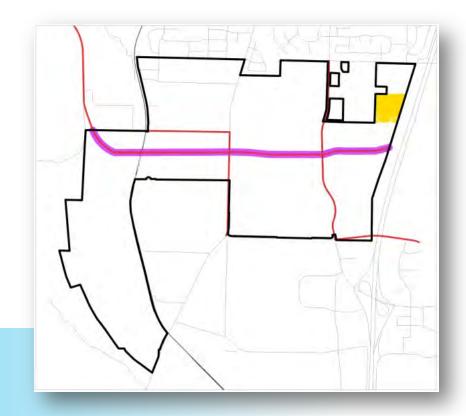
- Townhomes 19%
- Single Family
  - 5,000 sf: 23%
  - 6,000 sf: 47%
  - 7,500 sf: 12%

#### Structure

Ave. height: 2 stories







# Suburban Multifamily

#### Land Use Mix

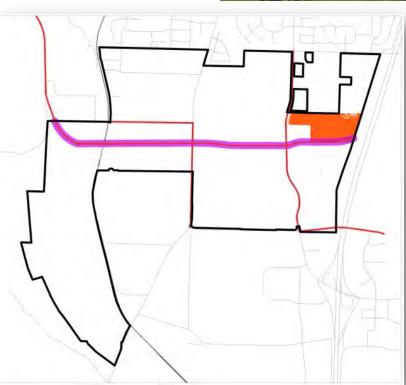
- Multifamily 97%
- Townhomes 3%

#### Structure

Ave. height: 2-3 stories





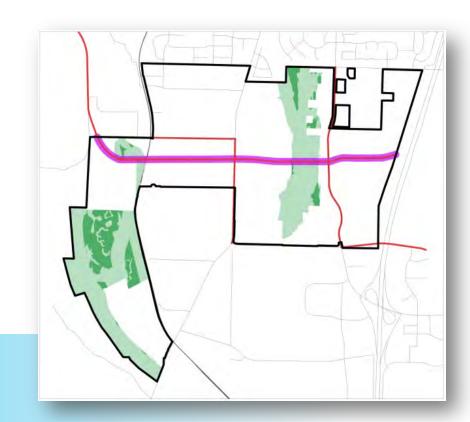


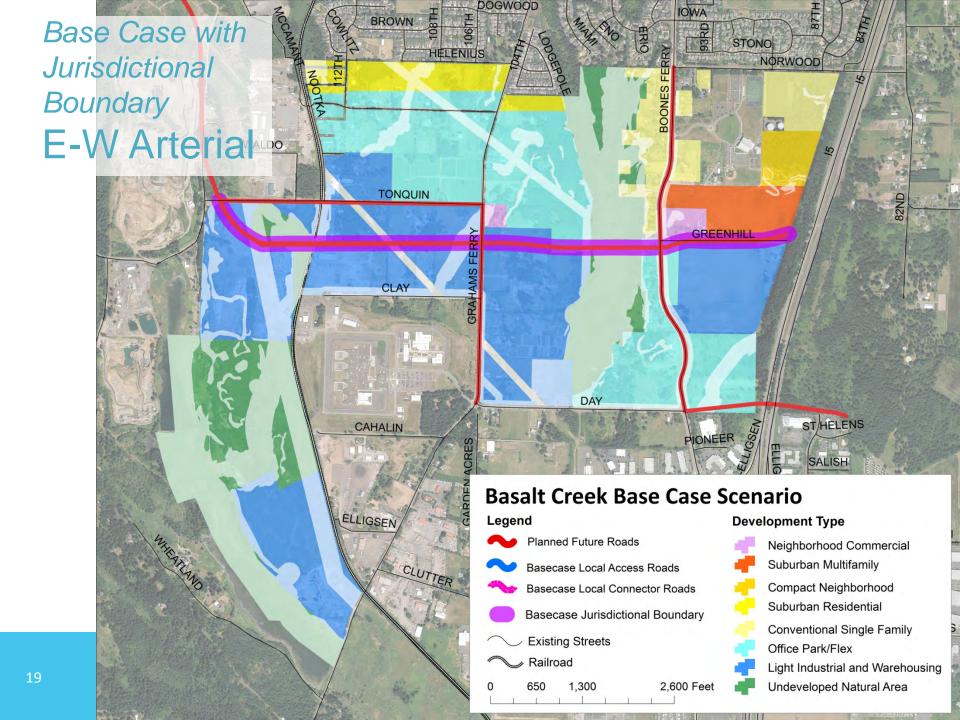
## Undeveloped Natural Areas

- Maintains private ownership
- No trails or open space programming in Base Case
- Regulations would prevent intense development











# BASE CASE SCENARIO: INDICATORS (EVALUATION CRITERIA)

# Comparison to Forecast

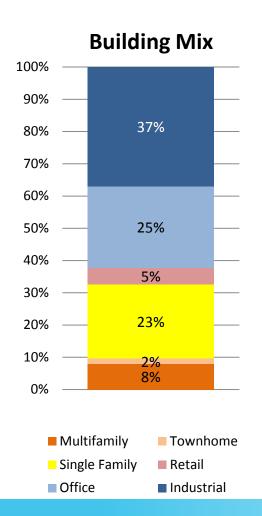
	New Households	New jobs	New trips generated*
Transportation Refinement Plan Forecast	1,386	2,562	1,989
Urban Growth Report Forecast	1,214	2,316	1,638
Base Case	653	4,058	1,968

<sup>\*</sup>PM Peak Hour trips. Trip rates: Households = 0.63, Retail jobs = 0.73, non-retail jobs = 0.37

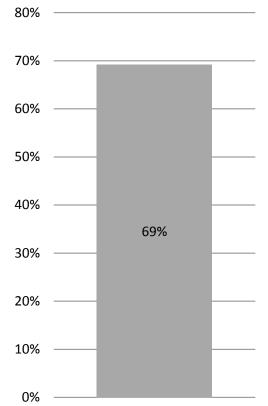


#### Base Case Indicators

## **Physical Form**







#### **Parking Spaces**

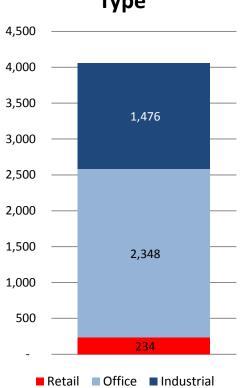




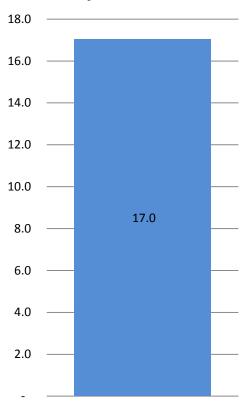
#### Base Case Indicators

# **Employment**





#### Jobs per Net Acre

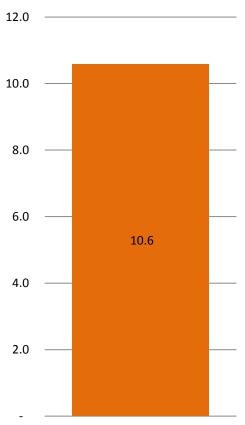




#### Base Case Indicators

## Housing

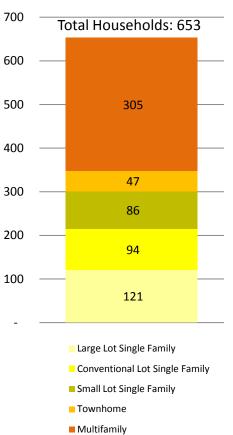
## Housing Units per Net Acre



## Owner / Renter Mix



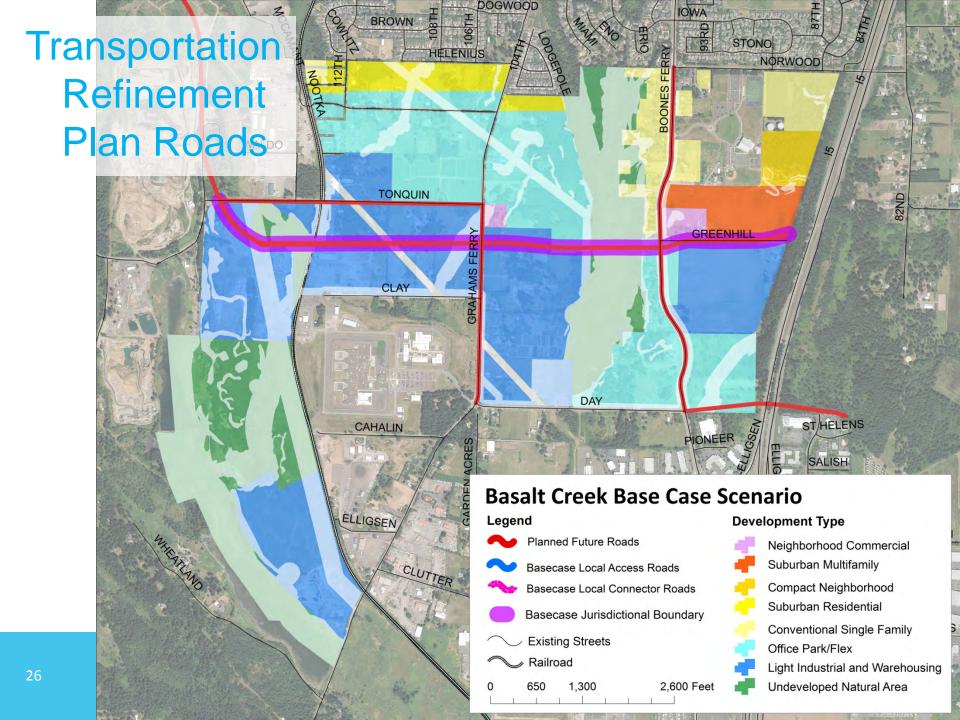
#### **Housing by Type**

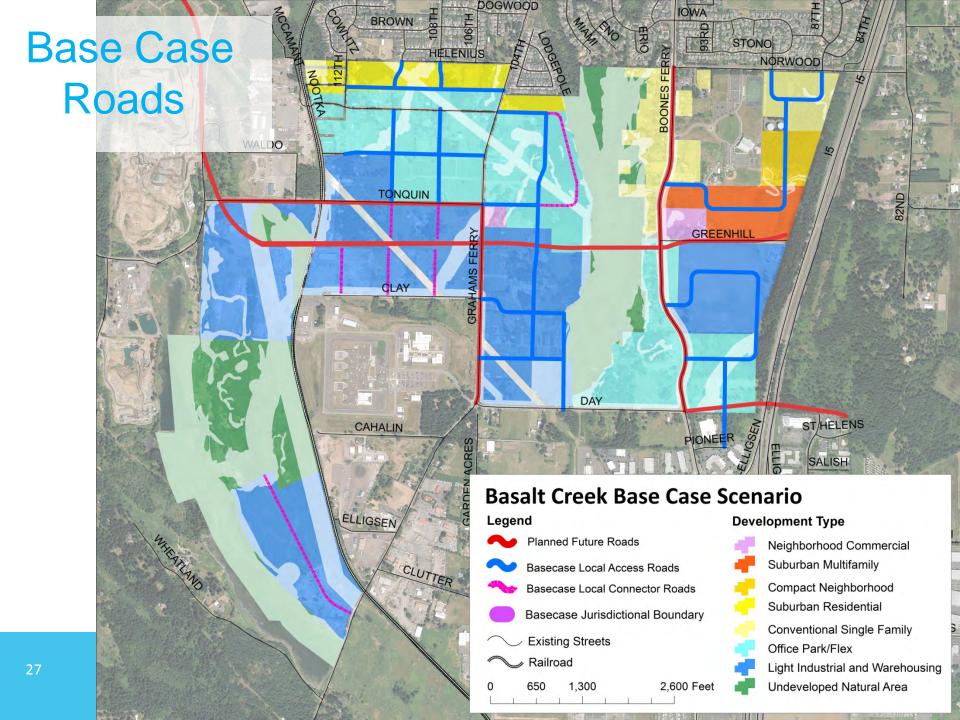






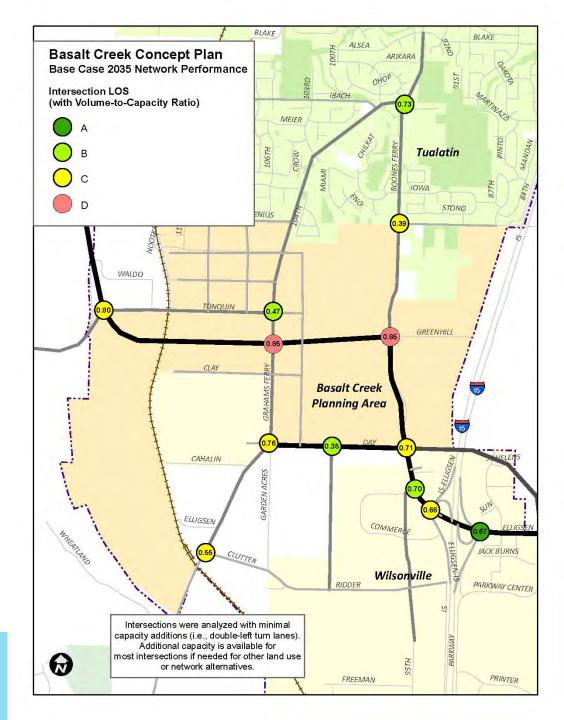
# BASE CASE SCENARIO: TRANSPORTATION

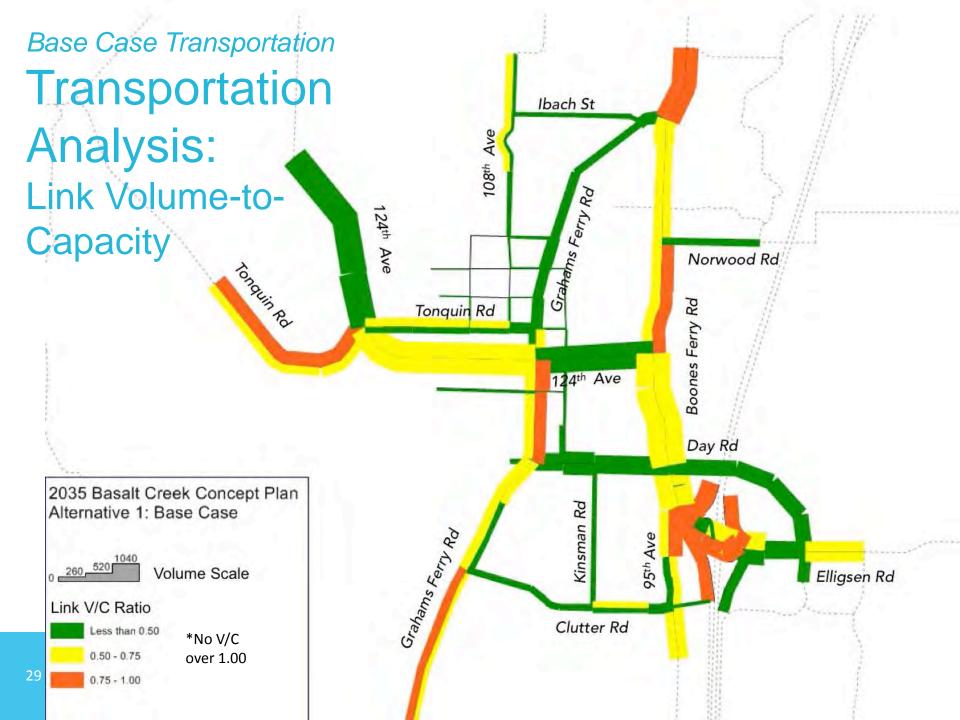




#### Base Case Transportation

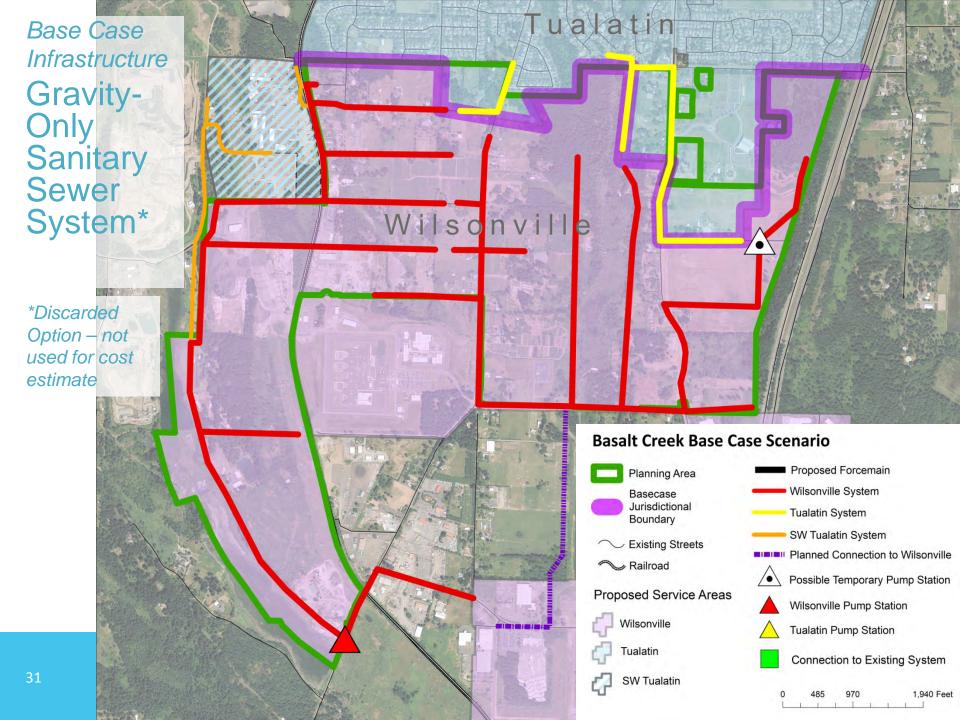
# Transportation Analysis: Intersection Volume-toCapacity

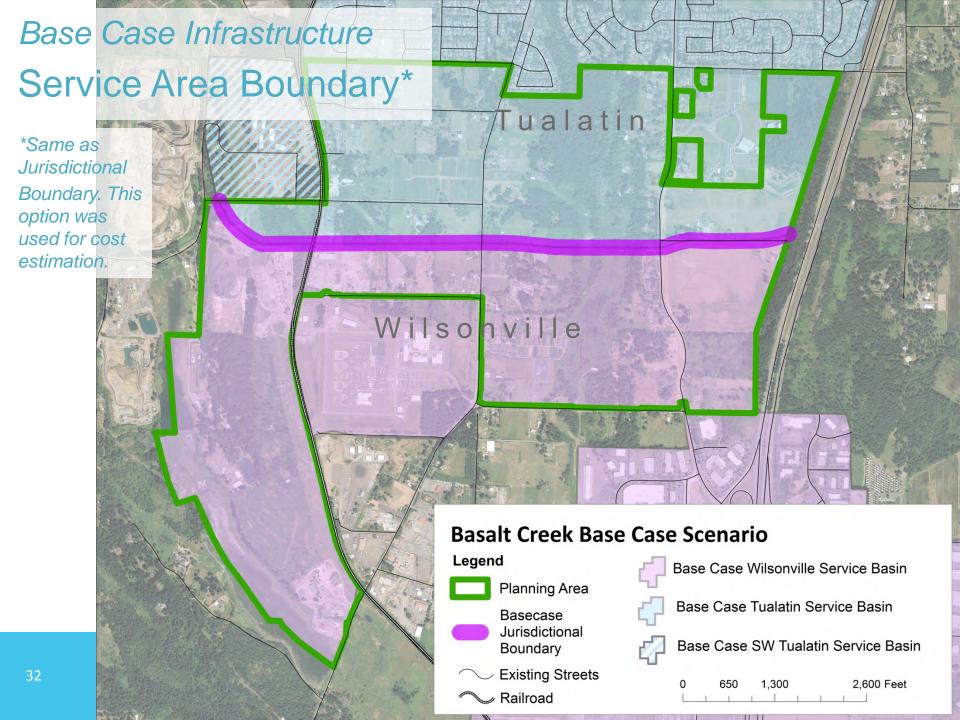


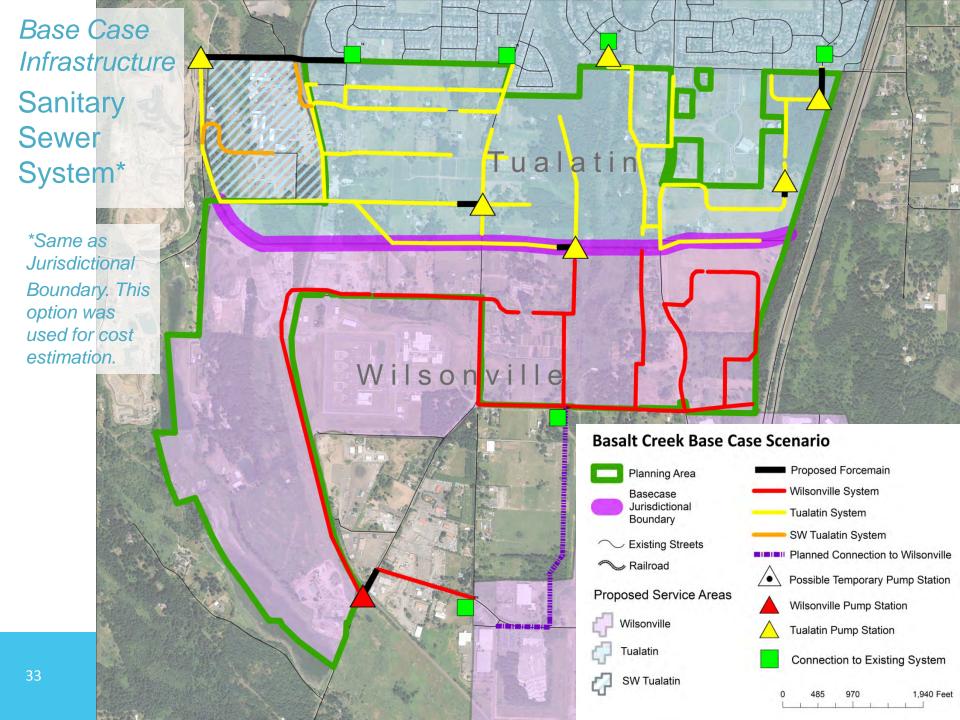




# BASE CASE SCENARIO: WET INFRASTRUCTURE







# Base Case Infrastructure Sanitary Sewer System – Comparing Options

#### **Gravity-Only**

- Deep pipes (>25 ft.)
- Difficult to phase
- Complicated to finance through SDCs
- Fewer pump stations; fewer upgrades to existing pipes

# **Service Areas Coincide** with City Boundaries

- Shallower pipes
- Simpler to phase and finance
- 7 pump stations
- Ongoing O&M costs for pump stations; pipe upgrades in Tualatin



### **Sanitary Sewer Concept Plan**

### **Proposed Pump Stations**

Tualatin: 5 (+ 1 existing PS upgrade)

Wilsonville: 1

#### Total Length of Pipe

Jurisdiction	Pipe Length (miles)
Tualatin	7.5
Wilsonville	4.8

#### **Peak Flows**

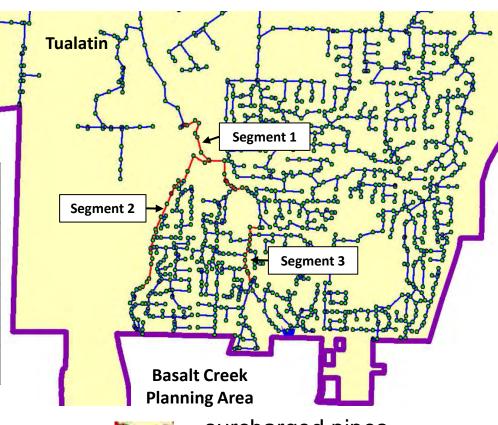
Jurisdiction	Peak Flow (gal/day)
Tualatin	1,134,000
Wilsonville	816,000
TOTAL	1,950,000



### Sanitary Sewer Tualatin System

Expected upgrades:

No.	Original Pipe Size	Upgrade To	Estimated Cost
1	10-15 inches	12-18 inches	\$1,000,000
2	10-15 inches	18 inches	\$1,600,000
3	8 inches	12 inches	\$800,000



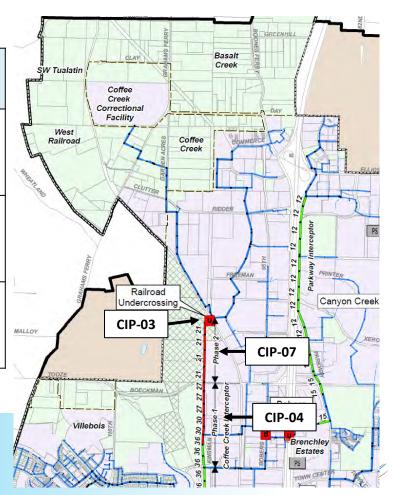




# Sanitary Sewer - Wilsonville System

Expected upgrades:

Proj. ID No.	Project Name	Upgrade Description	Estimated Cost
CIP-03	Coffee Creek Interceptor RR Undercrossing	Under- crossing, 21 inches	\$190,000
CIP-04	Coffee Creek Interceptor Phase 1	Upsize to 27, 30, and 36 inches	\$2,600,000
CIP-07	Coffee Creek Interceptor Phase 2	Upsize to 21 inches	\$1,700,000

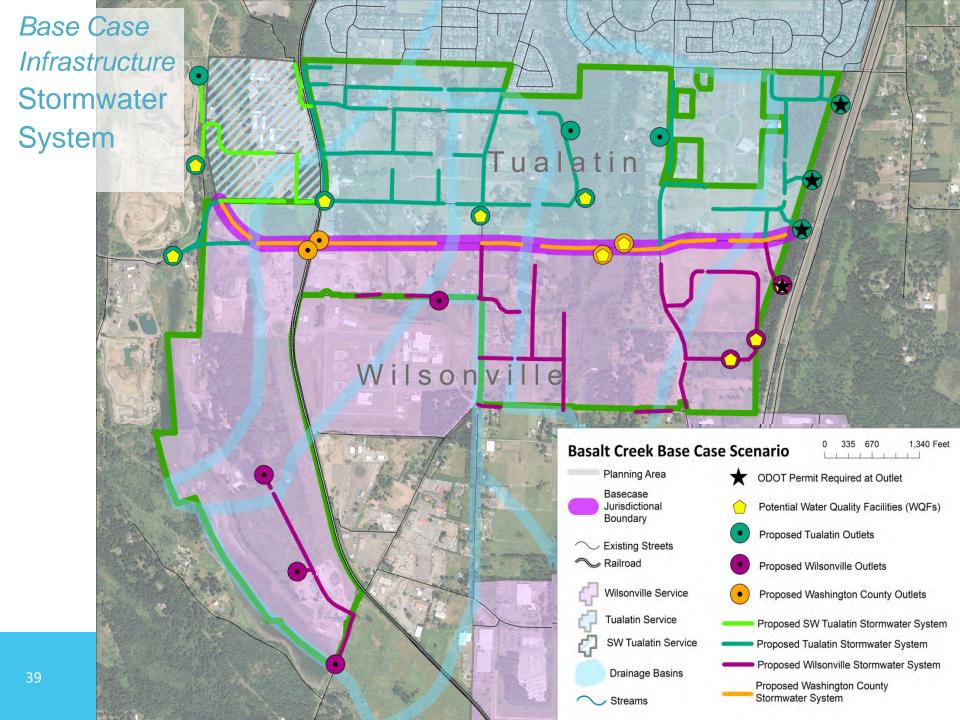


# Base Case Infrastructure Sanitary Sewer Costs

Jurisdiction	<b>Tualatin</b> (\$ Millions)	Wilsonville (\$ Millions)
Basalt Creek Cost	21.7	14.2
Existing System Upgrade Cost	3.4	4.5
Total Cost	25.1	18.7

NOTE: Cost estimate is at a concept level, +100%/-50% accuracy.





# Base Case Infrastructure Stormwater Concept Plan

#### Potential Water Quality Facilities (WQF)

Tualatin: 5 potential, 4 included in cost estimate

Wilsonville: 3

Washington County: 2

#### Design Concerns

- Tualatin: Three outlets on eastern edge may require ODOT permits
- Wilsonville: One outlet on eastern edge may require ODOT permit

#### **Total Pipe Length**

Jurisdiction	Pipe Length (miles)
Tualatin	6.0
Wilsonville	3.1

NOTE: Stormwater collection for E-W arterial is not included

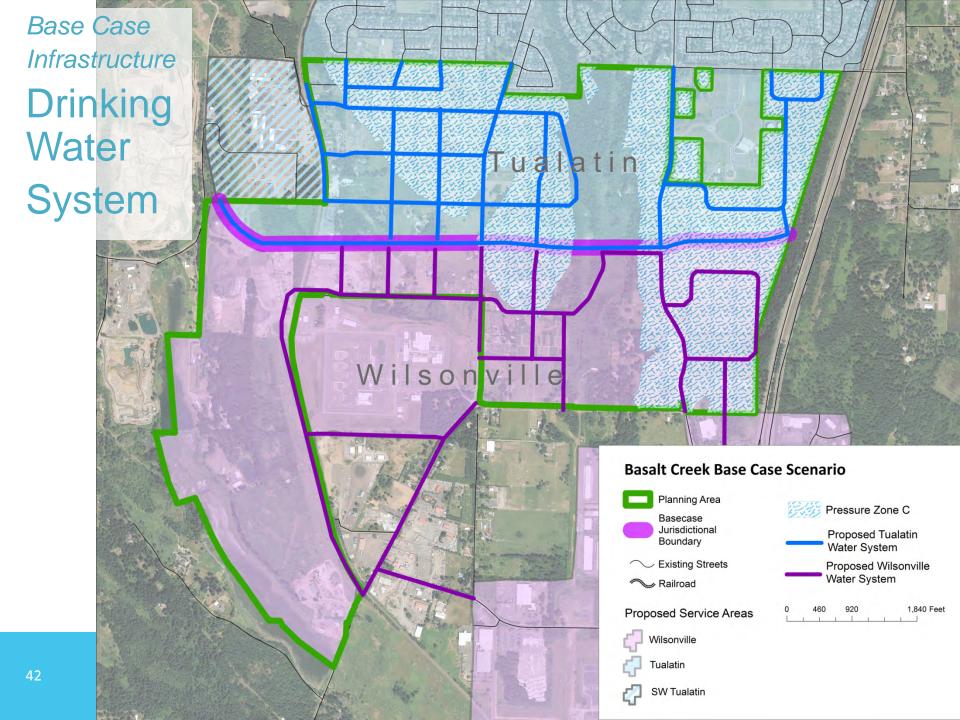


# Base Case Infrastructure Stormwater Costs

Jurisdiction	<b>Tualatin</b> (\$ Millions)	Wilsonville (\$ Millions)
Basalt Creek Cost	9.1	4.6

NOTE: Cost estimate is at a concept level, +100%/-50% accuracy.





### **Drinking Water Concept Plan**

#### Total Length of Pipe

Jurisdiction	Pipe Length (ft)	Pipe Length (miles)
Tualatin	39,520	7.5
Wilsonville	32,270	6.1

#### **Peak Flows**

Jurisdiction	Max Flow (gal/day)
Tualatin	389,000
Wilsonville	140,500
TOTAL	529,600

#### **Existing System Impacts**

Wilsonville Improvements: Booster Station at C Level Tank

# Base Case Infrastructure Drinking Water Costs

Jurisdiction	Tualatin (\$ Millions)	Wilsonville (\$ Millions)
Basalt Creek Cost	10.4	8.5
Existing System Upgrade Cost		0.6
Total Cost	10.4	9.1

NOTE: Cost estimate is at a concept level, +100%/-50% accuracy.



# Base Case Infrastructure Utility Concept Plan Risks

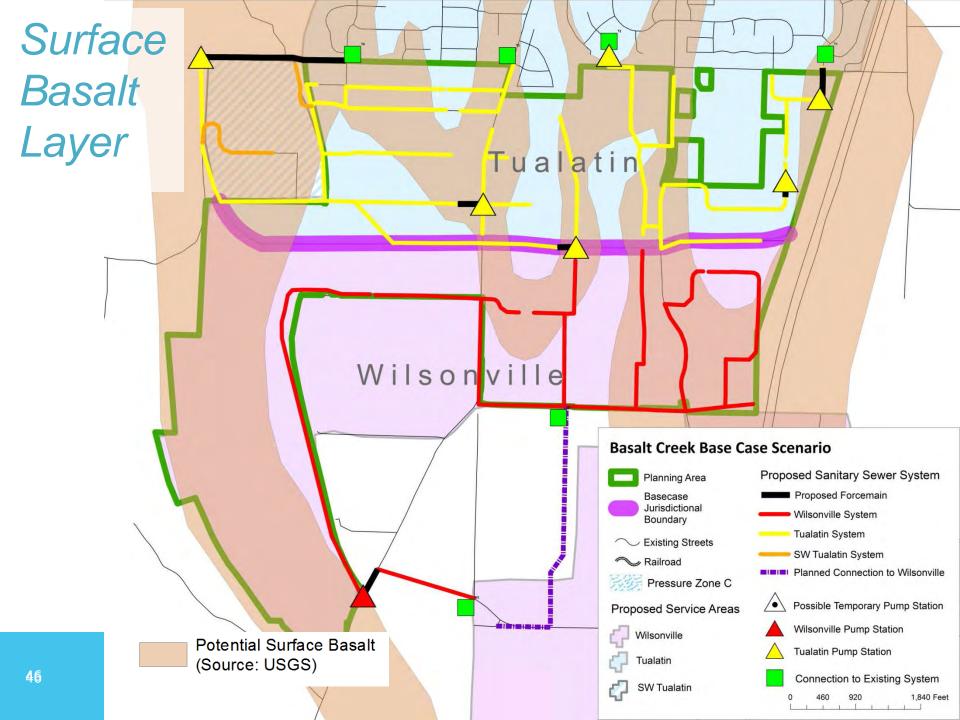
#### **Shallow Basalt Rock:**

- USGS maps show basalt at a depth of 0-100 feet in the Basalt Creek area and potential surface basalt in many areas
- Potential to encounter rock (10% of sanitary lines and 5% of drinking water lines) was included in cost estimate
- Maximum pipe depth of 25 feet was used in the design

### **Railroad Crossings:**

 Sanitary sewer and drinking water lines cross the existing railroad tracks in a few locations, generally along proposed or existing roadways





#### **Cost Estimate**

Utility	<b>Tualatin</b> (\$ Million)	<b>Wilsonville</b> (\$ Million)
Sanitary Sewer	25.1	18.7
Drinking Water	10.4	9.1
Stormwater	9.1	4.6
TOTAL	44.6	32.4

#### NOTE:

- Further analysis of existing upgrades of drinking water and stormwater systems may be required
- Cost estimate is at a concept level, +100%/-50% accuracy.



# Next Steps

Dec – Jan: Develop two Alternative Scenarios

February: Joint Council Meeting

Feb - March: Revisions to Alternative Scenarios

March: Public Open House

April: Individual Council work sessions

Spring/Summer: Develop Preferred Scenario





## **DISCUSSION**

### **Discussion Questions**

- Feedback or questions on the Base Case Scenario?
- Input on changes in the Base Case to evaluate in the alternative scenarios?

