

SE BEND SEPTIC TO SEWER ADVISORY COMMITTEE MEETING

THURSDAY, DECEMBER 7, 2017

WELCOME & INTRODUCTIONS



- Four Ingredients of Affordability
- Ingredient #2 Construction Timing/Phasing
- Committee Q&A
- Ingredient #3 Financing
- Committee Discussion
- Public Comment
- Interim Policy Council Action
- Look Ahead: Preliminary Engineering II January 11, 2018
 - (Bend Park and Recreation District)

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FOUR INGREDIENTS OF AFFORDABILITY

"FOUR INGREDIENTS OF AFFORDABILITY"



1. Reducing Project Costs

How is the sewer project being designed to lessen construction costs?

2. Construction Timing/Phasing

- How does construction timing/phasing affect project costs?
- What's the ideal timing/phasing to reduce costs?

3. Financing

- How will costs be allocated (among homeowners, developers, sewer utility)?
- Does financing public improvements over time save money for public/private investments?
- What financing methods (grants, loans, bonds) would help produce savings for property owners?

4. Affordable for Whom?

- How much can area property owners afford?
- What assistance could make sewers affordable?
- Are there solutions for low income households?

OVERVIEW OF THE FOUR INGREDIENTS



Managing Project Costs

- Length of pipe
- Depth of pipe
- Size of pipe

Construction Timing and Phasing

- Economies of scale
- Allow for phased financing

Financing

- Type of financing vehicle
- Phasing of funding types
- Mix of funding sources

Affordable to Whom

- Property Owners
- Sewer rate payers
- Low income households

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SUMMARY OF "THE FOUR INGREDIENTS OF AFFORDABILITY"



- Each of the four ingredients plays a part in determining the affordability of the project
- Combination of these ingredients will result in alternatives for consideration
- Committee to review financing and funding alternatives to determine recommended affordable approach

- 1. Reducing Project Costs
- 2. Construction Timing/Phasing
- 3. Financing
- 4. Affordable for Whom?



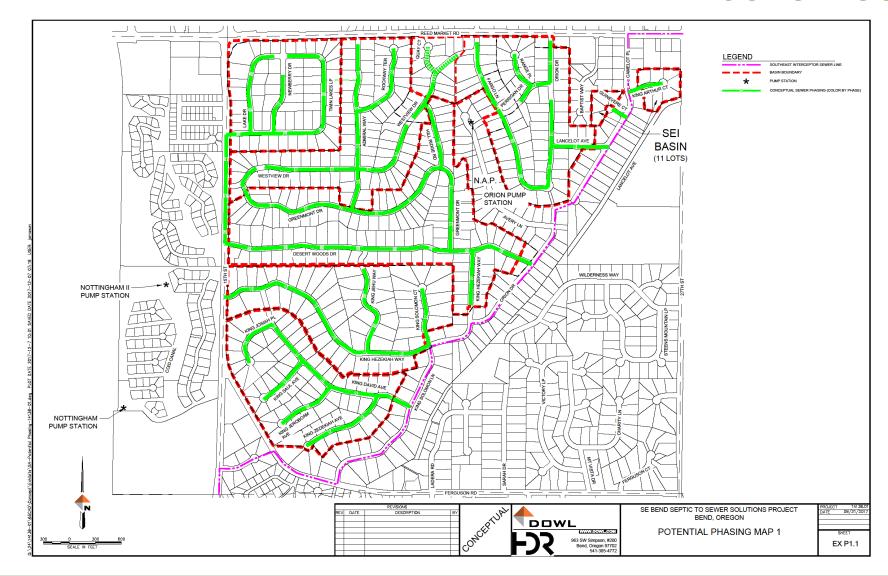
CONSTRUCTION TIMING/PHASING



- What do we mean by construction phasing?
- How does construction timing and phasing impact the project?
- What can be done to minimize construction costs?
- How does this impact financing?

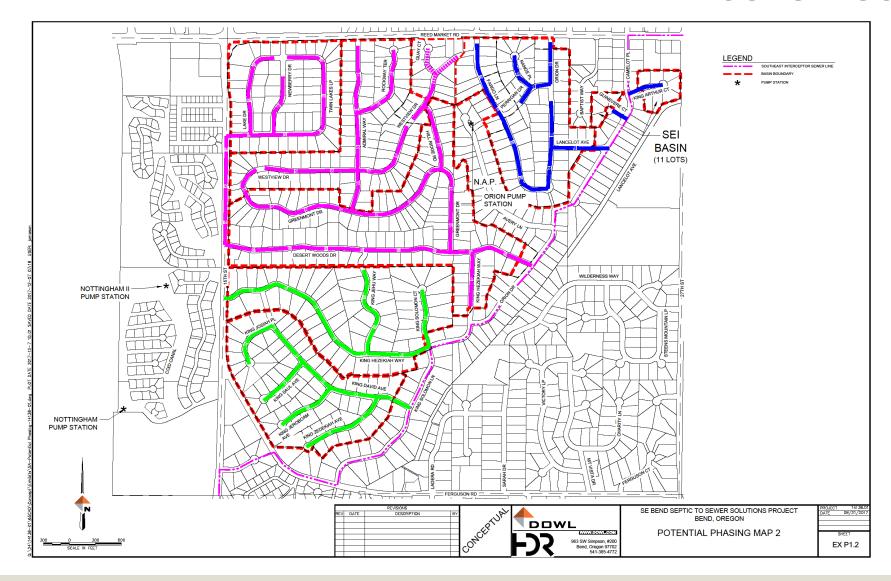






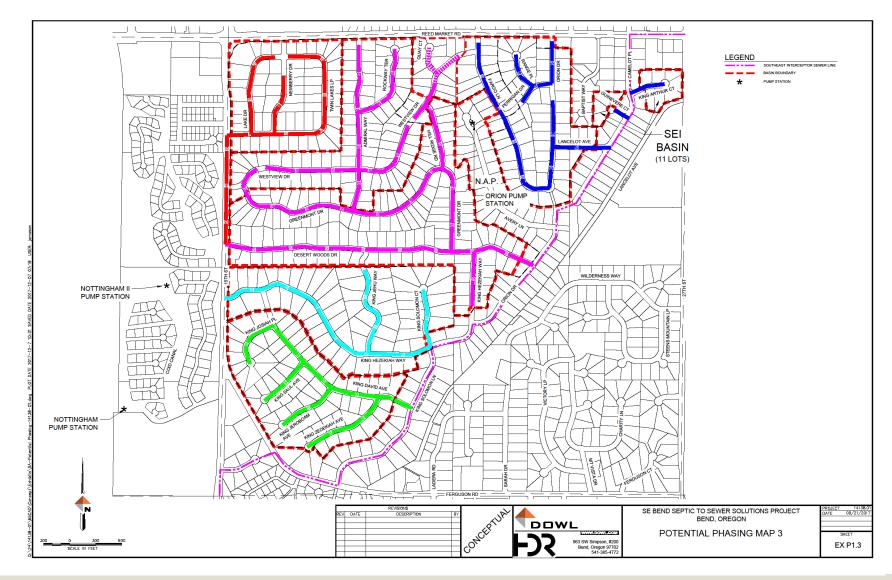
 Single Phase Construction





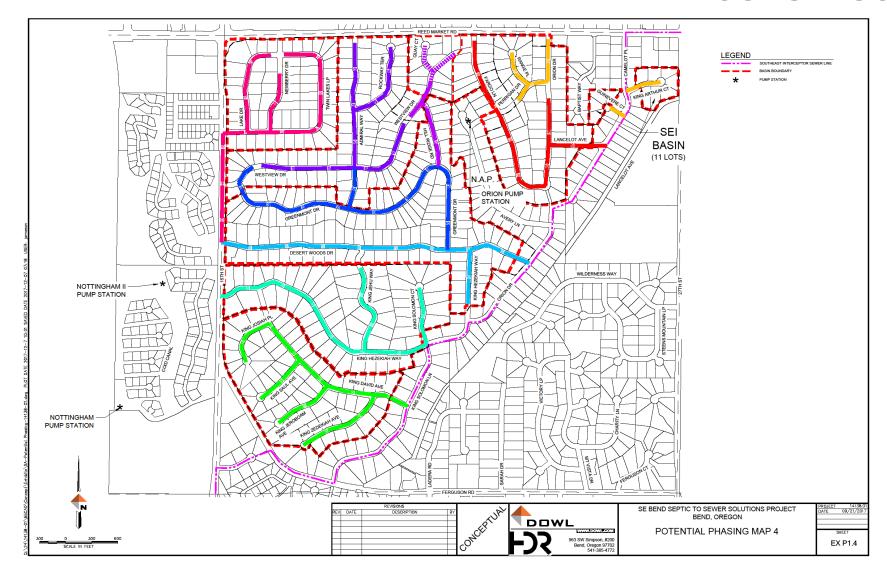
- Single Phase Construction
- Multiple Large Phases





- Single Phase Construction
- Multiple Large Phases
- Multiple Medium Phases





- Single Phase Construction
- Multiple Large Phases
- Multiple Medium Phases
- Multiple Small Phases



- Phase Scheduling
 - 30% Designs
 - Part of this contract
 - Bid Documents
 - Plans, Specifications, and Estimate for bidding and constructing
 - Bidding and Procurement
 - Construction
 - Excavation and removal
 - Trenching and piping
 - Sewer Stub-outs
 - Road reconstruction and paving
 - Right-of-way restoration





- Requirements of each phase
 - Separate construction contract documents
 - Plan, specification, and estimate packages
 - Separate bidding and procurement processes
 - Advertisements
 - Pre-bid meetings
 - Contracting
 - Separate construction administration processe
 - Pre-construction meetings
 - Weekly construction meetings
 - Monthly invoicing
 - Closeout

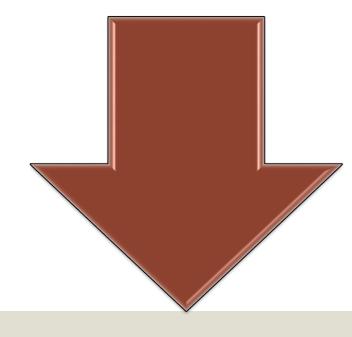


More Phases





- Increased competition
- Potentially earlier start
- Potential for more contractors
- Increased procurement demand on City purchasing staff
- Increased construction setup and closeout
- Increased construction administration costs



Fewer Phases

- Reduced procurement demand on City purchasing staff
- Reduced construction setup and closeout
- Fewer contracts to administer
- Lower construction administration costs
- Reduced competition
- Potentially later start

CONSTRUCTION PHASING AND FUNDING



Different benefits of phasing depending on the sharing of the costs

Homeowners and system customers

No cost sharing – limited benefits/impacts as a result of phasing

Minimal ability to lower cost of funds with no cost sharing

Cost sharing – phasing can impact overall benefits/impacts (e.g., affordability to homeowners and system customers)

- Availability of financing options (low cost) and interest risk
- Cost of multiple financing approaches
- Timing of funding needs
- Availability of funding (e.g., rates, SDCs)

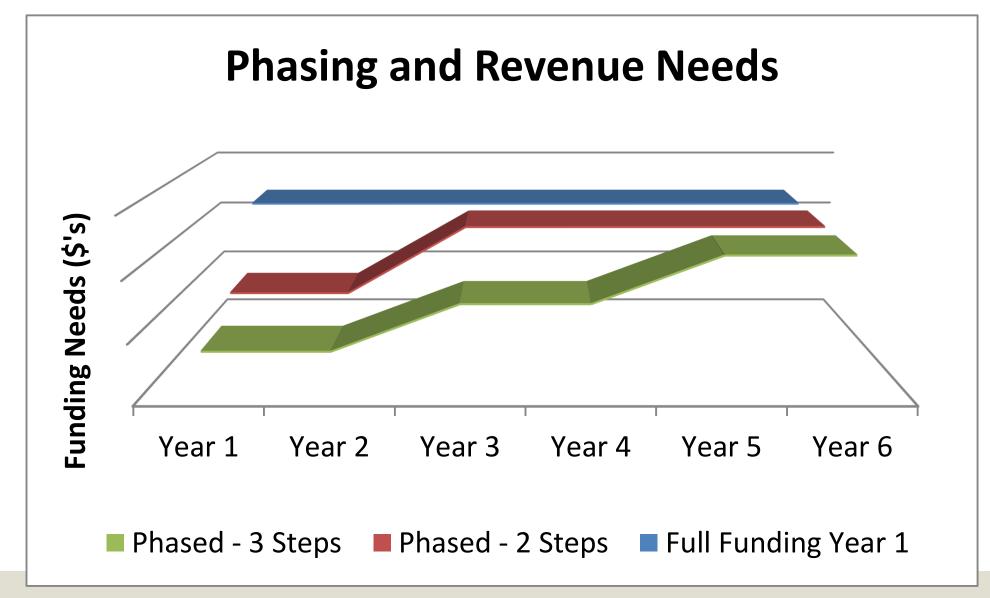
Phasing can also impact the timing of customer connections

- Result in speeding up, or delaying, customer connection and funding
 - Both SDCs and rates

Portland example: early customer sign-up allowed cash financing and minimized borrowing costs

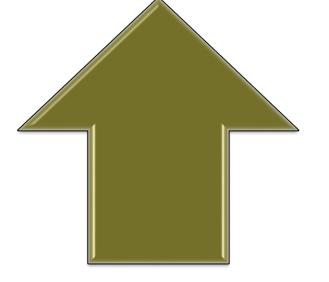
CONSTRUCTION PHASING AND FUNDING





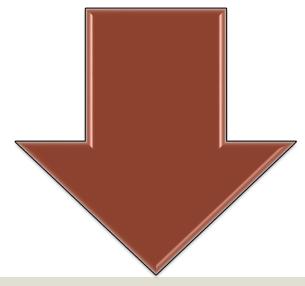
CONSTRUCTION PHASING AND FUNDING-COST SHARING





More Phases

- Greater flexibility to phase-in funding needs over multiple years
- Can increase financing (borrowing) costs (multiple issuances)
- May allow for multiple low cost funding alternatives
- Possibly slow down customer connections and contributions from SDCs and monthly rates



Fewer Phases

- Need to speed up funding levels
- Ability to minimize financing (borrowing) costs (single issuance)
- May minimize low cost funding alternatives
- May speed up customer connections and contributions from SDCs and monthly rates

COMMITTEE Q&A



INGREDIENT #3 – FINANCING

FINANCING - OVERVIEW



- Both internal and external financing sources
 - Internal revenues based on providing services (e.g., rates, SDCs)
 - External long-term borrowing (bonds, loans, etc.)
- Phasing will impact overall financing approach
- Project will most likely be a mix of available financing sources
- Are there financing strategies to minimize the affordability impacts of the project?

PROJECT COSTS

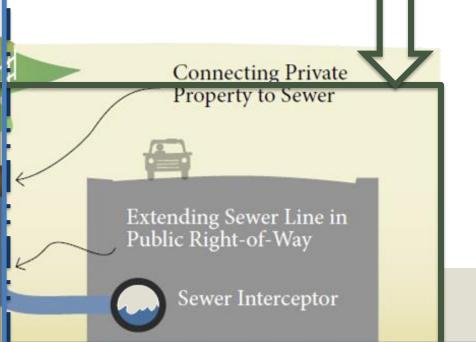
(HIII)

- Typical Private Property Costs
 - Septic tank decommission
 - New service lateral to the right-of-way
 - Additional plumbing upgrades, as needed
 - System development charges (SDCs)
 - Permitting
 - Pump (when required)

Decommissioning Septic Tank

Extending Sewer Line onto Private Property

- Typical Public Costs
 - Sewer main
 - Manholes
 - Sewer laterals to the right-of-way
 - Road reconstruction
 - Right of way restoration (landscaping and gravel shoulders)
 - Soft costs (i.e. Engineering, Permitting, etc)



FINANCING - EXTERNAL



Municipal Revenue Bonds

- Backed by the revenues of the sewer utility
- Need to maintain specific bond covenants (debt service coverage ratio)

General Obligation Bonds

- Backed by the City
- Requires a public vote to approve
- Paid for through annual assessments on property tax bill

Oregon Department of Environmental Quality (DEQ)

- Clean Water State Revolving Fund (CWSRF)
 - Low interest loans for planning, design, and construction of water pollution control facilities
 - Interest rate approx. 2/3 of current municipal bond rate plus annual loan maintenance fee (0.5% for recent City projects)
- CWSRF Pollution Reduction Funding
 - Point and Nonpoint source projects that prevent or mitigate water pollution
- Nonpoint Source Implementation 319 Grants
 - EPA provides grants to states for nonpoint sources of pollution, such as agricultural runoff, mining activities, and malfunctioning onsite septic systems

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FINANCING - EXTERNAL



Business Oregon Infrastructure Authority

- Water/Wastewater Financing Program
 - Administered by the Oregon Economic and Community Development Department (OECDD)
 - Wastewater collection and capacity eligible projects
 - Projects Loan Maximum \$10 million & Grant Maximum of \$750,000
- Drinking Water Source Protection Fund
 - Only projects relating to water source protection
- Oregon Community Development Block Grant Program (OCDBG)
 - For water and wastewater systems necessary to bring into compliance with
 - Safe Drinking Water Act or Clean Water Act administered by the Oregon Health Authority
 - Requirements for water quality statues, rules or permits from Oregon Department of Environmental Quality (DEQ) or Environmental Quality Commission
 - Target for "Low income" equal to 50% of the area median; Target for "Moderate income" equal to or less than 80% of area median
 - Total project grants limited to \$3,000,000





HOW COSTS ARE TRADITIONALLY PAID FOR

Sewer Rates

- Annual O&M
- Transfers
- Debt Service
- Rate Funded Capital

Customer Funded

System Development Charges

- Growth/Expansion
 Capital Costs
- Growth/Expansion
 Debt Service

New Connection Funded

Homeowner Contributions

Specific AreaImprovements

Homeowner Funded

FINANCING - INTERNAL



Traditional utility funding of infrastructure costs

- Sewer Rates
- System Development Charges and Connection Fees
- Local Improvement Districts
- Reimbursement Districts
- Monthly Surcharge

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FINANCING – SEWER RATES



- Sewer rates are the primary funding source for the utility
- Monthly sewer charges
 - Base charge based on a per customer basis
 - Volume charge based on Winter Quarter Average (WQA)
- Current monthly sewer charges
 - Single family residential
 - Base Charge \$34.55
 - Volume Charge \$3.62 Per 100 cubic ft. of WQA
- Many financing alternatives are ultimately "backed" by sewer rates
 - Need to consider impact to current rates, and customers, based on specific area improvements
 - Is this an equitable approach???

FINANCING – SYSTEM DEVELOPMENT CHARGES



Purpose

- To bring equity between existing and new connections to the system
 - Existing customers paid for available capacity
 - New connections pay a buy-in and/or new expansion related facilities
- To fund infrastructure necessary to serve growth
 - For new connections to pay an equitable share of expansion-related facilities needed to serve them
- SDC could be revised to include current and future projects
 - Results in a proportional share of costs spread across all new customers
 - Committee policy discussion
- Current City sewer system development charge
 - \$4,655.00 per EDU (Equivalent Dwelling Unit)

FINANCING - LOCAL IMPROVEMENT DISTRICT



- The City finances the project with the sale of bonds
 - The bonds are redeemed with the project assessment proceeds
- Property owners have responsibilities as part of the process
- City developed engineer's report and intent to create the LID
- If Report is accepted public hearing is set to consider objections to project
- If 2/3 (66%) of benefiting property owners object then Council must discontinue further discussion of project for three months.
- If fewer than 2/3 of benefitting parties object, then City accepts project, and costs are tabulated
 - A public hearing is then held to confirm the final assessments to each property owner
 - Objections to the assessment are heard by the City Council

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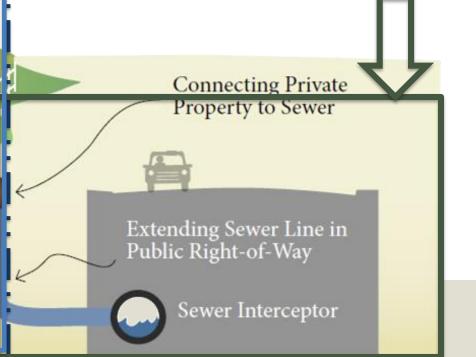
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FINANCING - EXTERNAL



Craft3 Clean Water Loans

- One of the following must apply:
 - your septic system is at least 25 years old;
 - your system is failing and you have evidence to support it;
 - you have been contacted by Health Officials; or
 - you are under orders to fix your septic system
- Sometimes available for financing connection to a municipal sewer system
- Rates and terms dependent on applicants annual household income

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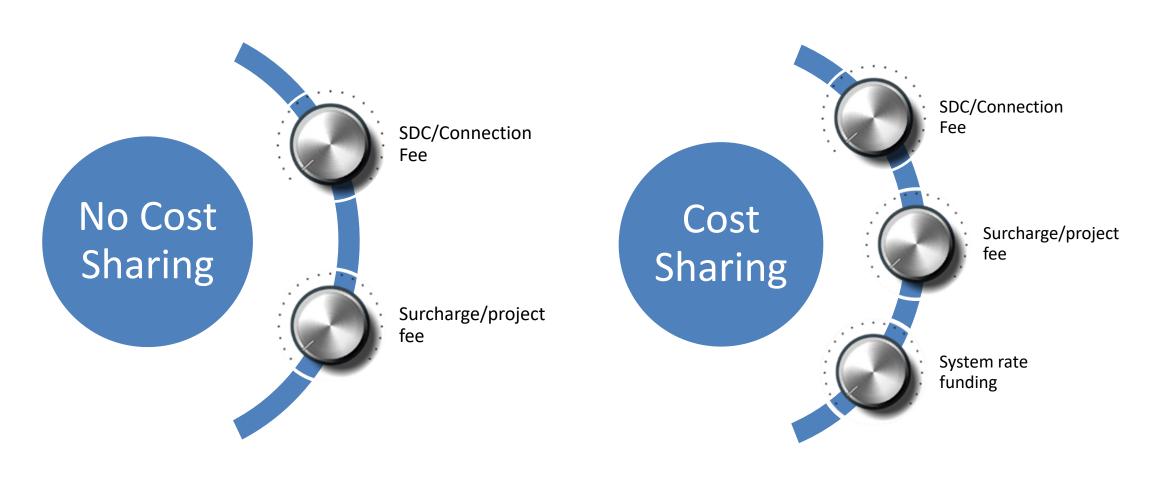
FINANCING AND AFFORDABILITY



- Project funding will attempt to minimize costs by looking at financing alternatives
 - Low cost alternatives may not be feasible, or available based on the project
- Balancing the impact to homeowners and existing rate payers.
 - Phasing the project over multiple years may help balance the impact to both
 - Conversely the quicker the customers connect, and contribute, it can lower the impact
- Peer Community Review Examples
 - Portland incentives to connect early
 - Spokane County financing of SDCs and connection charges
- Once preliminary costs are known, financial analysis will review the low and high ranges based on project cost and sharing assumptions
 - January/February 2018

FINANCING AND AFFORDABILITY - COST SHARING





FINANCING - SUMMARY



- Various financing alternatives may be available
 - Advantages and disadvantages for each
- Project phasing can drive financing alternatives and costs
 - Trade-offs between shorter and longer time periods for both overall financing costs and customer contributions (revenue)
 - Impact will vary depending on cost sharing
- Project funding will likely combine various financing alternatives
 - Mix of homeowner and rate funding
- Financing alternatives for homeowners
 - Timing of SDC/Connection fee payment
 - Ability of City to finance SDC/Connection fee
 - Timing of connection to system

COMMITTEE DISCUSSION

UPCOMING ADVISORY COMMITTEE MEETINGS



Thursday, January 11

Preliminary Engineering II

Thursday, February 1

Four Ingredients of Affordability



- 5 minutes
- Time divided among speakers
- Comment cards available



THANK YOU