

Capital Improvement Plan for Streets

City of Durham
Washington, County

April, 2008



Exp 12-31-09

Prepared by
David Evans and Associates, Inc.
2100 SW River Parkway
Portland, OR 97201

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DAVID EVANS
AND ASSOCIATES INC.

MEMORANDUM

DATE: April 28, 2008
TO: Roland Signett, City Administrator
FROM: Joseph D. Eskew, PE
SUBJECT: **Capital Improvement Plan for Streets**
PROJECT:
PROJECT NO: DURX0001-0018
COPIES:

Attached is the proposed street Capital Improvement Plan. The projects outlined and their associated priorities have been selected based on site evaluations and our discussions and meetings. The estimated project costs are presented in current year dollars with contingencies. Adjustments should be made relative to the actual year of implementation, inflation factors and final design requirements.

The City of Durham is responsible for approximately 4.4 miles of streets. Upper Boones Ferry Road (an Oregon State Highway) occupies approximately 1.2 miles of that total. The jurisdictional City streets are in fair to good condition presently, however, maintenance of the street surfaces will be required at sometime in the future. A budgeting amount has been included in the CIP for these improvements.

Initials: JDES

File Name: p:\d\durx0000018\0600info\0670reports\4-28-08\durham_cip memo_042808.doc

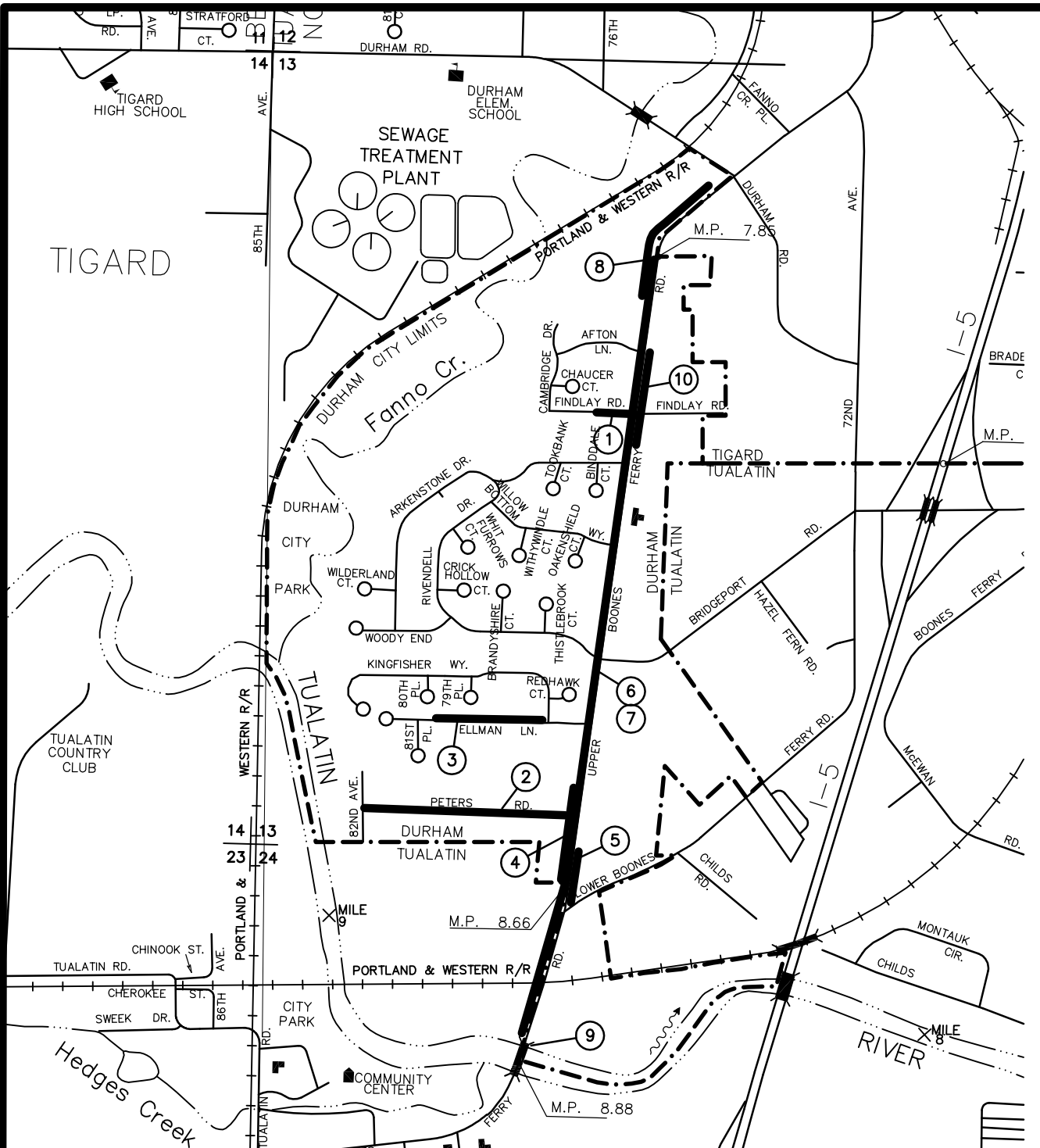
Project Number: DURX0000-0018.002

City of Durham

Street Division CIP

	Project	Length(ft)	Estimated Cost	Priority			
				1-5 yr plan	6-10 yr plan	1-20 yr plan	11-20 yr plan
1	Findlay Street Extension	610	\$230,000			X	
2	Peters Road Improvements	1385	\$660,000			X	
3	Ellman Road 1/2 Street Improvements	660	\$210,000			X	
4	UBFR 1/2 Street Improvements (WEST)	800	\$185,000		X		
5	UBFR 1/2 Street Improvements (EAST)	250	\$70,000		X		
6	UBFR Utility Underground	5300	\$1,500,000	X			
7	UBFR Street Lighting	5300	\$800,000	X			
8	UBFR Widening North of Afton (WEST)	920	\$276,000	X			
9	Tualitin River Bridge - 5% Cost Share (\$12M)		\$600,000				X
10	UBFR Sidewalk Infill	760	\$195,000	X			
11	Pavement Maintenance	3.2 mi		\$25,000/yr	\$25,000/yr	\$25,000/yr	\$25,000/yr

\$4,726,000

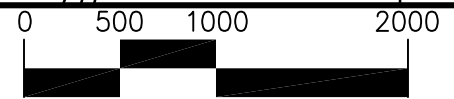


CAPITAL IMPROVEMENT LEGEND

- 1 FINLAY ST. EXTENSION
- 2 PETERS ROAD IMPROVEMENTS
- 3 ELLMAN ROAD IMPROVEMENTS
- 4 UPPER BOONES FERRY ROAD (WEST)
- 5 UPPER BOONES FERRY ROAD (EAST)
- 6 UTILITY UNDERGROUND
- 7 STREET LIGHTING
- 8 UPPER BOONES FERRY ROAD WIDENING
- 9 TUALATIN RIVER BRIDGE
- 10 UPPER BOONES FERRY ROAD SIDEWALK INFILL



CITY OF DURHAM



City of Durham Capital Improvements Plan

Project Name – Findlay Street Extension

Location – West side of Upper Boones Ferry Road, near MP 8
 Estimated Cost: \$230,000

Project Information

Existing Width: No through Street, ½ street for 300'	Proposed Width: 32' curb to curb	Project Length: 610'	Improvement Type: Road Extension and ½ street improvement
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Vicinity Map

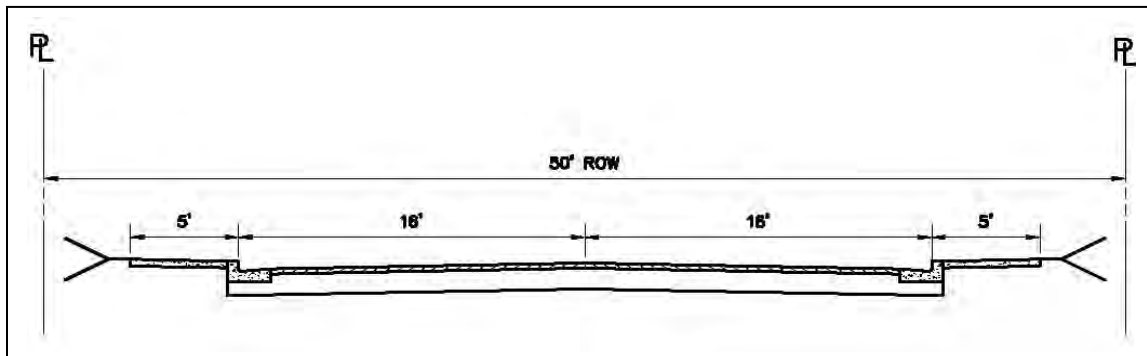
Looking West over proposed extension.

Problem Definition:

No secondary outlet for Afton Commons subdivision. During construction of Afton Commons a ½ street improvement (16' wide) was provided for approximately 300 feet.

Proposed Solution:

Extend Findlay Road to Upper Boones Ferry Road forming a 4 leg intersection with Upper Boones Ferry Road and Findlay Street.



City of Durham Capital Improvements Plan

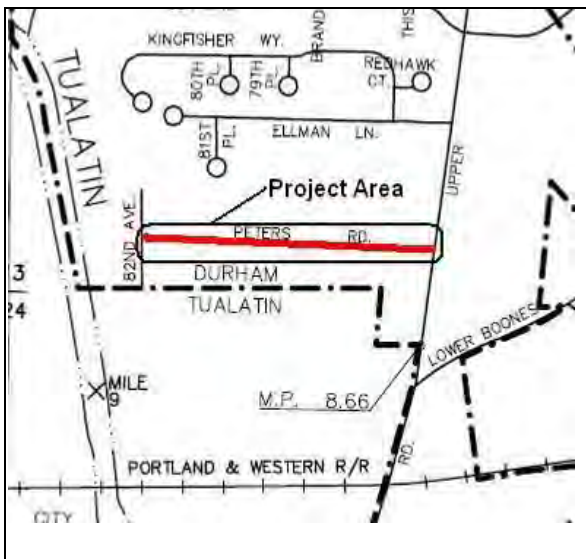
Project Name – Peters Road Improvements

Location –Existing Peters Road, West of Boones Ferry Road near MP 8.5

Estimated Cost: \$660,000

Project Information

Existing Width: 16'	Proposed Width: 32' curb to curb	Project Length: 1385'	Improvement Type: Widen Street to City standards with curb and sidewalk
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Vicinity Map



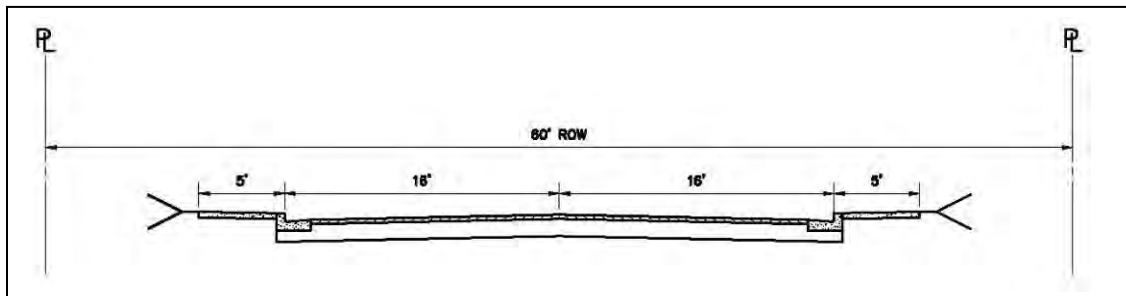
Facing West on Peters Road.

Problem Definition:

Existing roadway is narrow without pedestrian facilities. Infill development of larger parcels will increase traffic volumes and conflicts between pedestrians and vehicles.

Proposed Solution:

Construct road widening and pedestrian facilities to City standards for entire length of roadway.



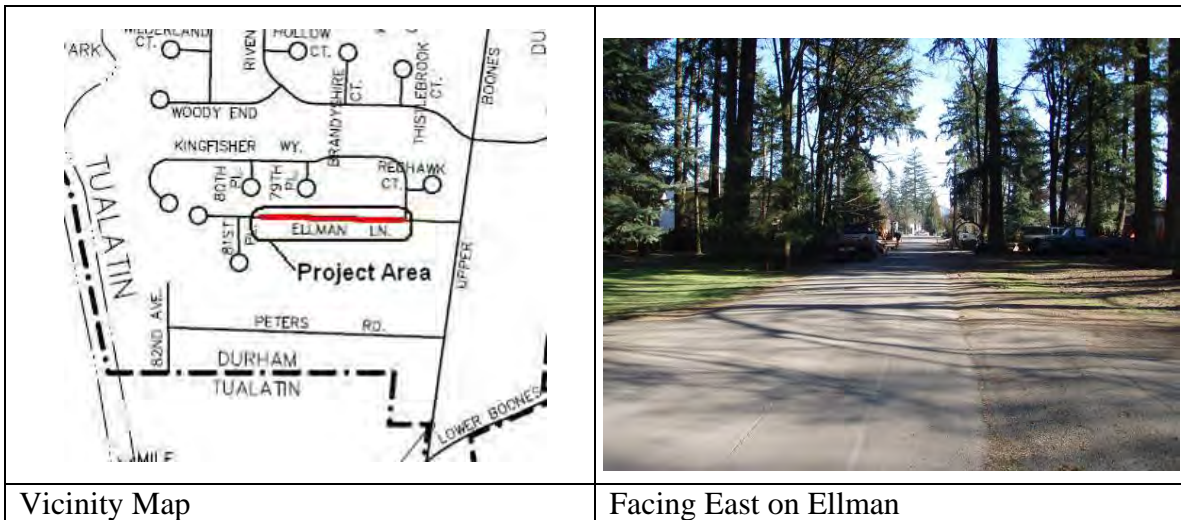
City of Durham Capital Improvements Plan

Project Name – Ellman Road Improvements

Location –Existing Ellman Road, West of Boones Ferry Road near MP 8.5
 Estimated Cost: \$210,000

Project Information

Existing Width: 16'	Proposed Width: 24' curb to curb	Project Length: 660'	Improvement Type: Widen Street to City standards with curb and sidewalk
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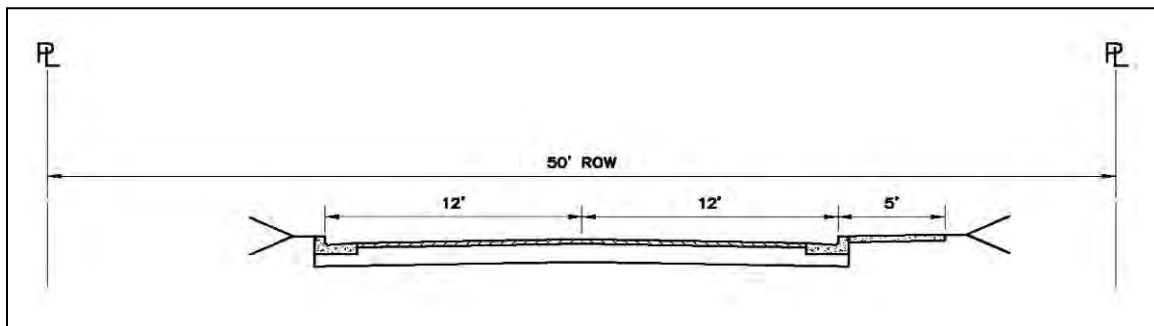


Problem Definition:

The roadway width is adequate for two vehicles to pass but pedestrian facilities are intermittent. Infill development has improved portions of the roadway, however, timing of future development can not be predicted.

Proposed Solution:

Widen and provide curb and sidewalk per City standards to provide consistent roadway width and dedicated pedestrian mobility.



City of Durham Capital Improvements Plan

Project Name – Upper Boones Ferry Road (West)

Location –UBFR from Lower Boones Ferry Road to North of Peters Road

Estimated Cost: \$185,000

Project Information

Existing Width: 44'	Proposed Width: 50' (4' widening Req'd)	Project Length: 800'	Improvement Type: Widen to ODOT standards with curb and sidewalk
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Vicinity Map



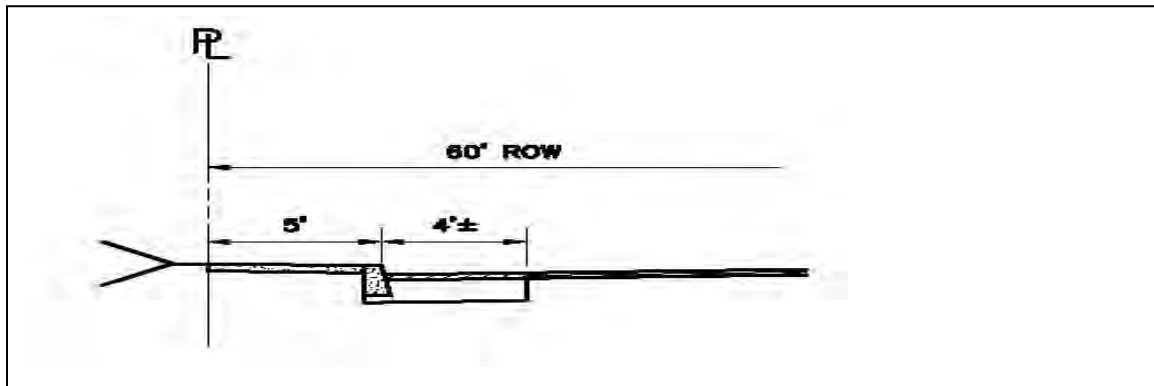
Facing North on Upper Boones Ferry

Problem Definition:

West side of Upper Boones Ferry Road between Peters Road and Lower Boones Ferry Road lacks curb and sidewalk for dedicated pedestrian travel to commercial/retail development and recreational areas. Lack of safe facilities discourages alternative modes of travel.

Proposed Solution:

Construct curb, sidewalk and bike lanes to ODOT standards.



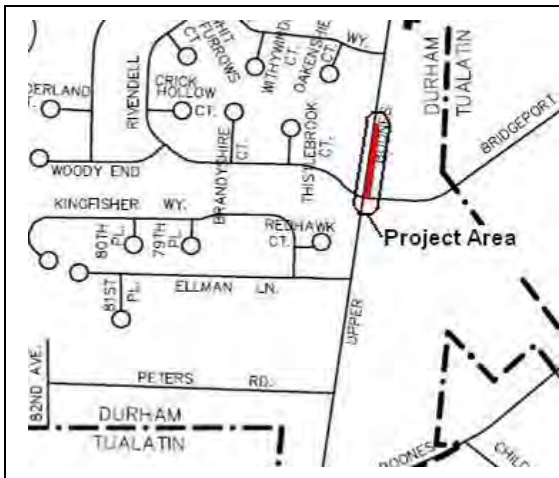
City of Durham Capital Improvements Plan

Project Name – Upper Boones Ferry Road (East)

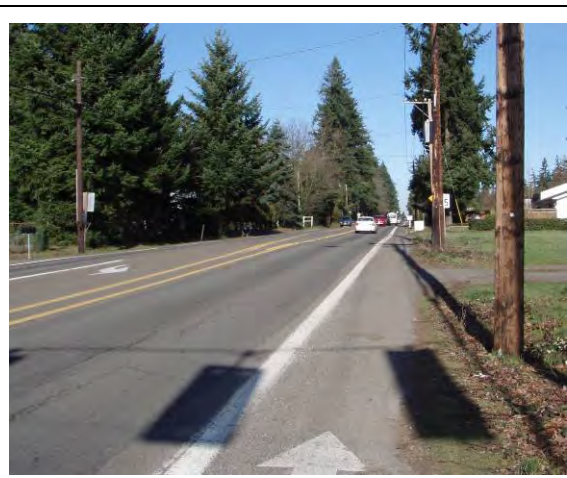
Location –UBFR from Lower Boones Ferry Road to Peters Road
 Estimated Cost: \$70,000

Project Information

Existing Width: 44'	Proposed Width: 50' (2' widening Req'd)	Project Length: 250'	Improvement Type: Widen to ODOT standards with curb and sidewalk
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Vicinity Map



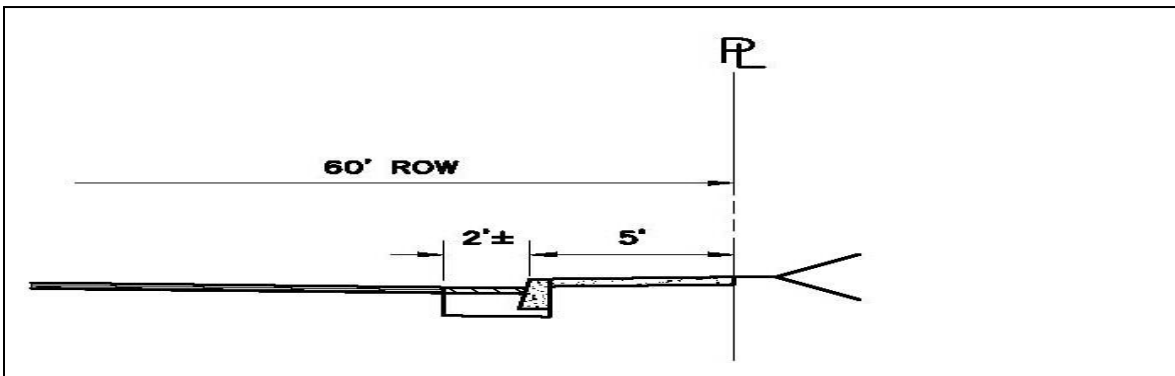
Facing north on Upper Boones Ferry Road

Problem Definition:

East side of Upper Boones Ferry Road between Peters Road and Lower Boones Ferry Road lacks curb and sidewalk for dedicated pedestrian travel to commercial/retail development and recreational areas. Lack of safe facilities discourages alternative modes of travel.

Proposed Solution:

Construct curb, sidewalk and bike lanes to ODOT standards.



City of Durham Capital Improvements Plan

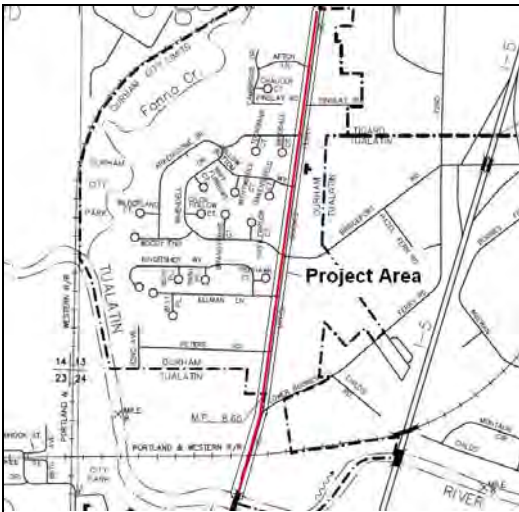
Project Name – Upper Boones Ferry Road Utility Underground

Location –UBFR from North City Limit to South City Limit

Estimated Cost: \$1,500,000

Project Information

Project Length: 5300'	Improvement Type: Provide underground conduit for aerial utilities
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Vicinity Map



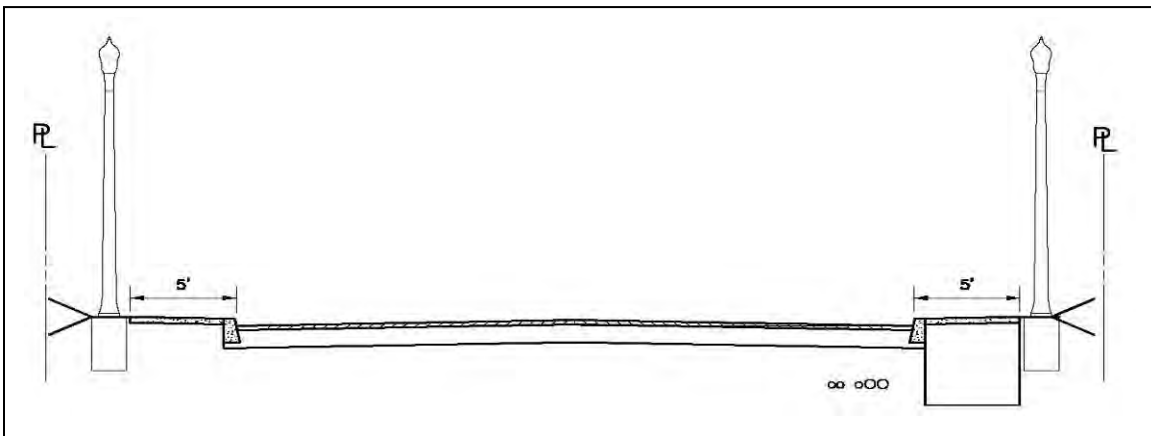
Facing North Upper Boones Ferry Road at Findlay Road

Problem Definition:

Overhead utility lines and power poles conflict with the aesthetic vision for the City.

Proposed Solution:

Construct conduit network and vaults for power utility use.



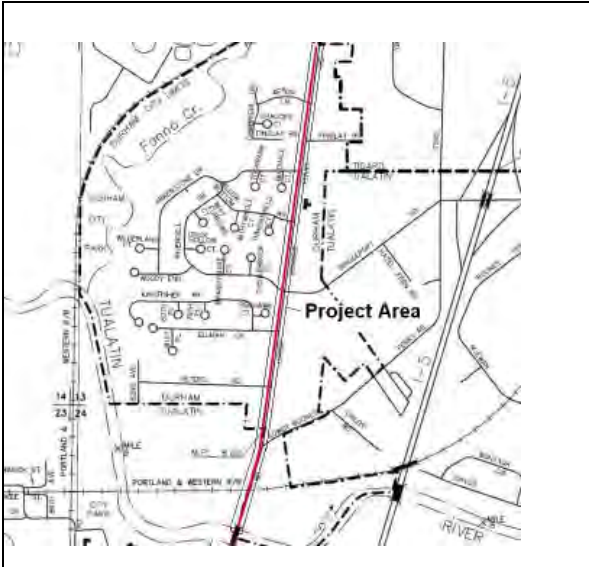
City of Durham Capital Improvements Plan

Project Name – Upper Boones Ferry Rd Street Lighting

Location –UBFR from North City Limit to Lower Boones Ferry Road
Estimated Cost: \$800,000

Project Information

Project Length: 5300'	Improvement Type: Street lights along Upper Boones Ferry Road
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Vicinity Map



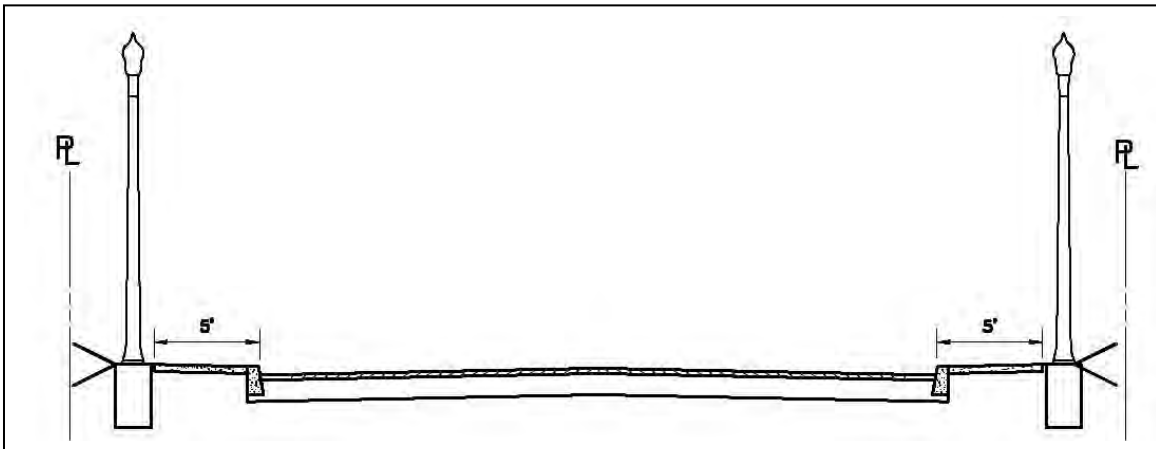
Facing North Upper Boones Ferry Road

Problem Definition:

Lack of street lights along Upper Boones Ferry Road is detrimental to vehicle and pedestrian safety.

Proposed Solution:

Construct street light poles along both sides of UBFR and underground conduit network.



City of Durham Capital Improvements Plan

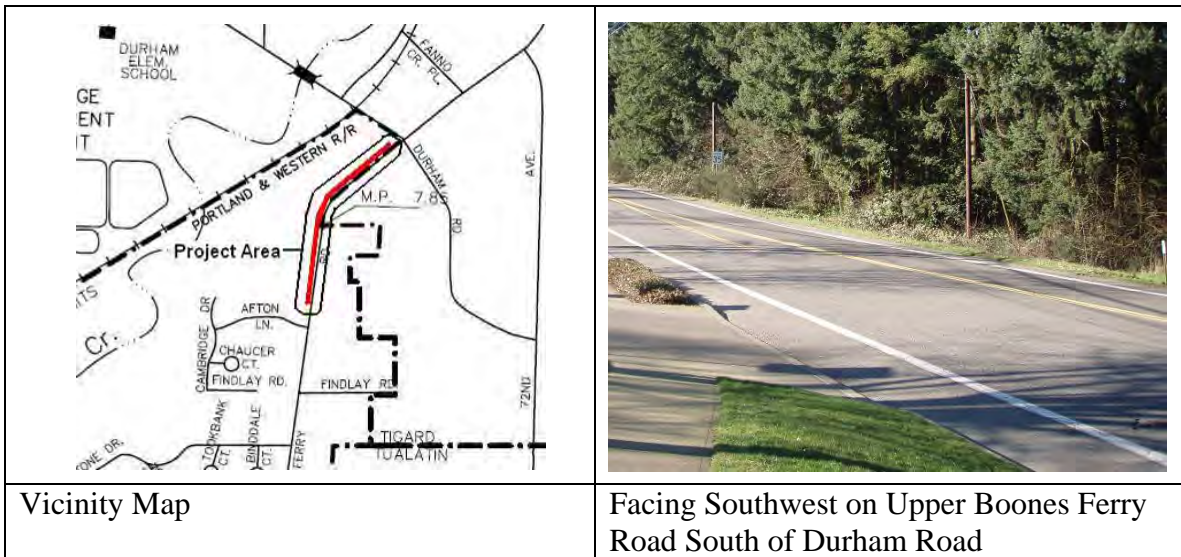
Project Name – Upper Boones Ferry Rd (North)

Location –UBFR from Durham Road to Afton Road

Estimated Cost: \$276,000

Project Information

Existing Width: 32'-34'	Proposed Width: 36' (3'± widening)	Project Length: 920'	Improvement Type: Widen to City standards with curb and sidewalk
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Vicinity Map

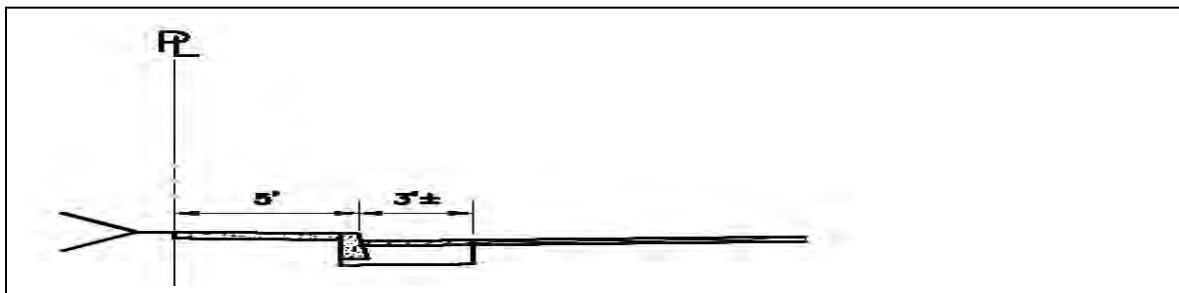
Facing Southwest on Upper Boones Ferry Road South of Durham Road

Problem Definition:

Section of roadway lacks curb and sidewalk for dedicated pedestrian travel. Left turn queue at Durham Road is inadequate for current and future traffic volumes.

Proposed Solution:

Widen to accommodate extended left turn and bike lane with curb and sidewalk.



City of Durham Capital Improvements Plan

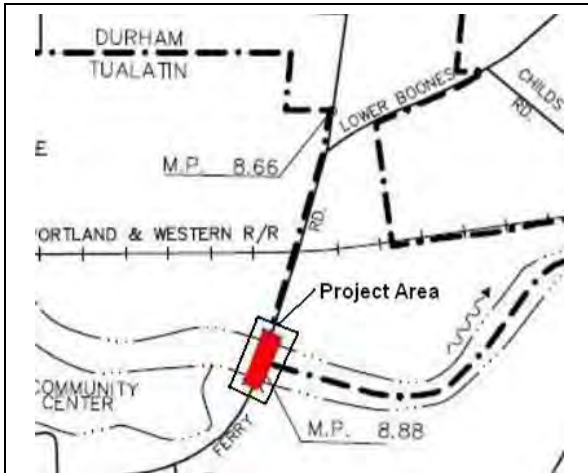
Project Name – Tualatin River Bridge

Location –Upper Boones Ferry Road at Tualatin River

Estimated Cost: \$600,000 (5% cost share with City of Tualatin)

Project Information

Existing Width: 38'	Proposed Width: 50'	Project Length: 240'	Improvement Type: Bridge replacement
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Vicinity Map



Tualatin River Bridge

Problem Definition:

Aging bridge infrastructure will require replacement in the future. City limits extend to middle of river. Tualatin River Bridge is a major component to mobility for Durham.

Proposed Solution:

Participate in the repair or replacement of the bridge at such time it become necessary.

City of Durham Capital Improvements Plan

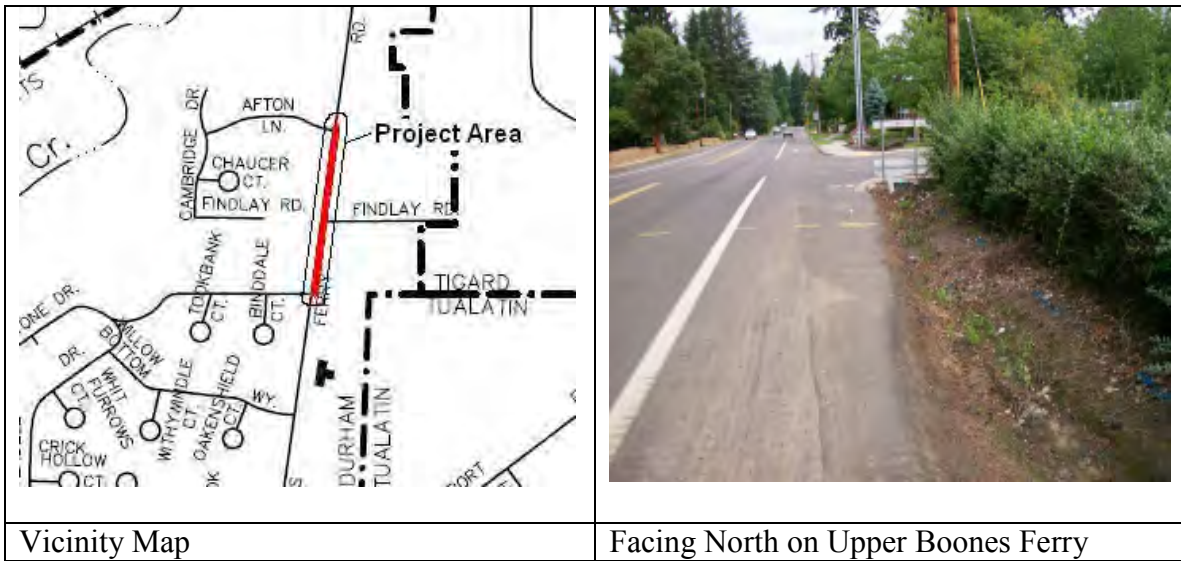
Project Name – Upper Boones Ferry Road Sidewalk Infill

Location –UBFR from Rivendell Drive to Afton Lane

Estimated Cost: \$195,000

Project Information

Existing Width: 26' to 40'	Proposed Width: 44'	Project Length: 760'	Improvement Type: Widen with curb, sidewalk and add left turn lane
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Problem Definition:

Upper Boones Ferry Road between Rivendell Drive and Afton Lane lacks curb and sidewalk on alternating sides of the roadway. No left turn lane refuge is available.

Proposed Solution:

Construct curb and sidewalk. Re-stripe roadway for two travel lanes, one left turn lane and bike lanes.

