

***CITY OF WEST LINN
WILLAMETTE PARK WETLANDS RESTORATION***

***METRO
GREENSPACES PROGRAM***

PROJECT DESCRIPTION:

Our proposed project is located at the City of West Linn's Willamette Park in Clackamas County, Section 2, Township 3 south, Range 1 east at Willamette River mile 28.4.

As part of an overall park expansion project, the City is acquiring an additional 7.25 acres adjacent to Willamette Park. A portion of this property will hold a new softball/soccer field, with the majority of the property hosting a restored and enhanced wetland area.

The objective of this specific project, Wetland Restoration, is to:

- * Address identified needs for this site as described in the West Linn Wetlands Final Report prepared by Environmental Consultants Lynn Sharp and Loverna Wilson (see Exhibit B).
- * Mitigate the effect of conflicting uses i.e. athletic fields.
- * Provide a public awareness and educational opportunity through interpretation of the value of urban wetlands (see Exhibit C).
- * Provide an outdoor living laboratory for the kids of the nearby middle school biology and environmental classes.
- * Establish wildlife habitat accessible to human viewing via boardwalks and observation towers.
- * Restore wildlife habitat inaccessible to humans through fencing and dense planting of "human unfriendly" vegetation.
- * Enhance the quality of storm water entering the Willamette River via an urban drainage basin by removing drain pipes and tiles and restoring a natural stream corridor with indigenous vegetation plantings. This will include water quality evaluations.
- * Remove soils near a small pond contaminated by an illegal dumping of electrical capacitors which leaked polychlorinated biphenyls and replanting with native plants.
- * Provide a community work project with hands on experience for over a hundred volunteers (scout troops, neighborhood groups, environmental and biology classes) in the replanting and reconstruction of stream corridors.
- * Replace less desirable vegetation (blackberries and reed canary grass) with more desirable native trees, herbs, shrubs and grasses.

City Of West Linn
Willamette Park Wetlands Restoration

PROJECT BUDGET

<u>ITEM</u>	<u>LOCAL</u>	<u>METRO</u>	<u>TOTAL</u>
PROFESSIONAL SERVICES:			
Site Review, Base Map.	770.40		770.40
Wetland Delineation.	1045.00		1045.00
Wetland Survey, CADD Mapping.	1920.00		1920.00
Preliminary Design, Drafting.	564.50		564.50
Grading and Planting Design.	3000.00		3000.00
Wetland Permit Application, Final Design.	1003.11		1003.11
Develop Interpretive Narrative.	500.00		500.00
Sub Total	8803.01		8803.01
 MATERIALS:			
Cedar Logs, Rock for Weir.		1305.00	1305.00
Plant Material, Trees, Shrubs, Emergents.		4588.50	4588.50
Seed and Planting Mulch.		485.00	485.00
Fencing Material (Silt Fence).		492.52	492.00
Irrigation Equipment.		181.48	181.48
Top Soil.		387.50	387.50
Sub Total		7440.00	7440.00
 CONTRACTED SERVICES:			
Grading, Clearing.	400.00	7226.00	7626.00
Salvage and Transplant Large Trees.	5465.00	954.00	6500.00
Sub Total	5865.00	8180.00	14045.00
 LABOR:			
Planting, Grading, Weir Construction (Full time Employees) 200 hrs.	6440.20		6440.20
(Temporary Employees) 332.75 hrs.	2875.20		2875.20
(Volunteers) 194 hrs. x 4.75	921.50		921.50
Sub Total	10236.90		10236.90
 EQUIPMENT RENTAL:			
Trencher.	155.60		155.60
U-Haul	49.20		49.20
City Fleet	1429.54		1429.54
Sub total	1634.35		1634.35
GRAND TOTAL	LOCAL	METRO	TOTAL
	26539.26	15620	42159.26

willpark4;kw

City of West Linn
Willamette Park Wetlands Restoration

FUTURE PROJECTS BUDGET

<u>ITEM</u>	<u>LOCAL</u>	<u>TOTAL</u>
PROFESSIONAL SERVICES:		
Design Storm Drainage and Public Improvements.	4900.00	4900.00
Design Interpretive Shelter.	1000.00	1000.00
Sub Total	5900.00	5900.00
MATERIALS:		
Irrigation Equipment.	2500.00	2500.00
Plant Material.	1000.00	1000.00
Decking.	3000.00	3000.00
Interpretive Shelter.	8700.00	8700.00
Interpretive Signs.	5000.00	5000.00
Sub Total	20200.00	20200.00
CONTRACTED SERVICES:		
Storm Drainage.	8500.00	8500.00
Parking.	16000.00	16000.00
Public Improvements.	25000.00	25000.00
Electrical.	1000.00	1000.00
Pathways.	10000.00	10000.00
Sub Total	69500.00	69500.00
LABOR:		
Construction of the Above, (Full Time Employees) 200 hrs.	6440.00	6440.00
(Temporary Employees) 300 hrs.	2592.00	2592.00
(Volunteers) 300 hrs.	1425.00	1425.00
Sub Total	10457.00	10457.00
GRAND TOTAL	106057.00	106057.00

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**City of West Linn
Willamette Park Wetlands Restoration**

GENERAL COMMENTS

Because of it's location, at confluence of the Willamette and Tualatin Rivers, this particular project at Willamette Park relates exceptionally well to the METRO Greenspaces Program. The proposed river trail runs through the center of this small regional park.

With easy access and the amount of use the park receives, a unique opportunity exists to showcase the importance of the Greenspaces Program and it's related projects. The wetlands developed through this grant will receive storm water runoff from a basin that drains nearly one square mile of urban development. The educational opportunities that exist because of this facility are endless.

The City of West Linn and our citizens are proud to have participated in this program and are excited to complete the future phases of this project as well as benefits of this wetland areas as it matures.

Helpful Hints:

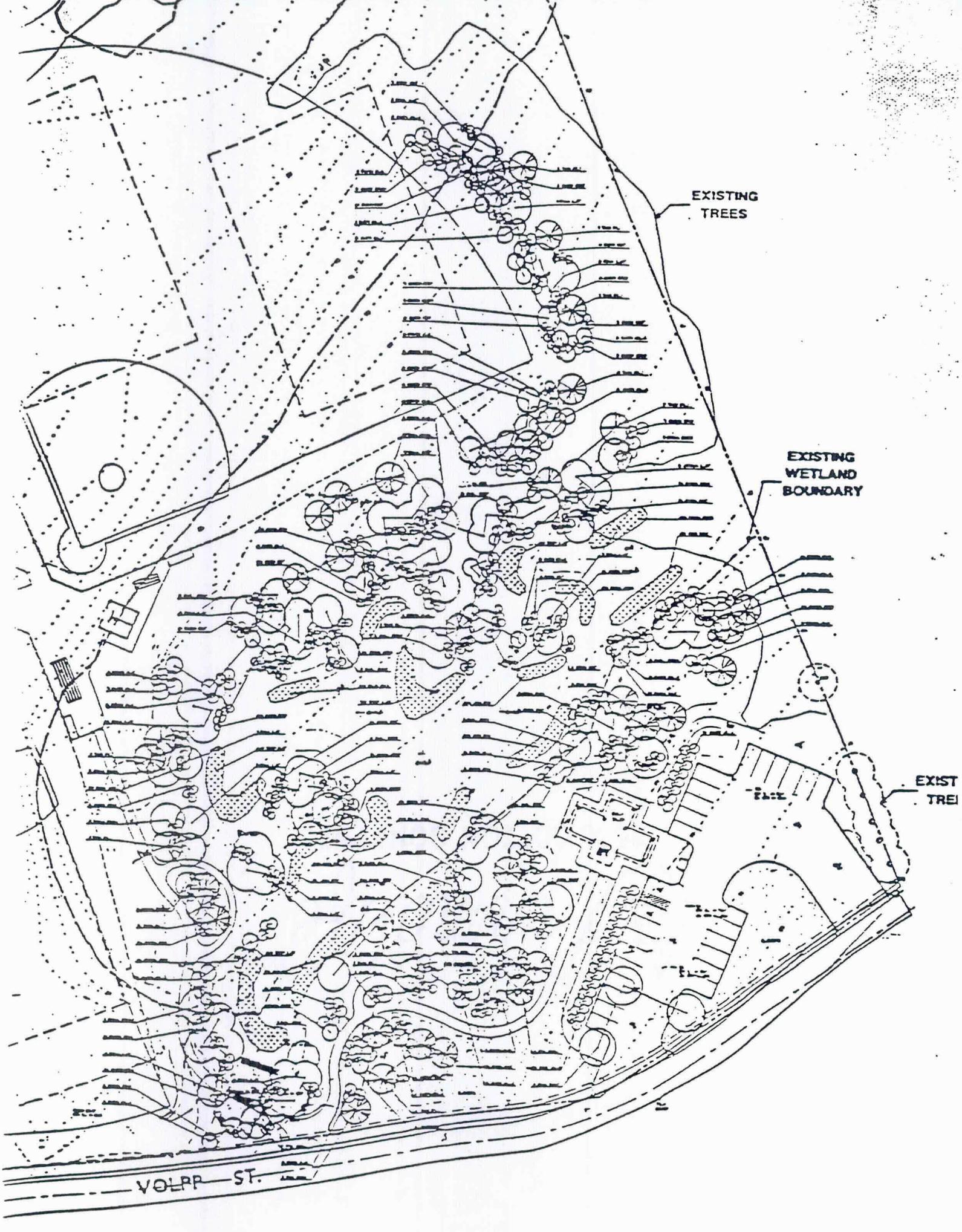
Order the "HORTUS NORTHWEST" a Pacific Northwest Native Plant and Nursery Directory and Journal. \$9.00 from Hortus Northwest P.O. Box 955, Canby, Oregon 97013 (503)266-7968.

If irrigation is required for plant establishment, borrow aluminum above-ground pipe and sprinklers. Most of your neighboring cities, school districts, or even a friendly farmer, have miles of this laying around as surplus.

In retrospect if we made mistakes I think they are in over designing our project. Contrived plant schemes rarely look natural, and limit somewhat a site's versatility. Random plantings with materials that will do well in your situation may prove to work better.

Instead of planting a "native" type grass ie. the clovers, orchard grass, etc. things we as managers have been trying to eliminate for years, try plantings of different grains, wild flowers etc. This could provide a visually interesting area and the wildlife certainly won't mind the extra food source.

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EXISTING
TREES

EXISTING
WETLAND
BOUNDARY

EXIST
TRE

VOLPP ST.

**WILLAMETTE PARK EXPANSION
CITY OF WEST LINN OREGON**

SITE GRADING PLAN
06/90

PROJECT LOCATION:
CITY OF WEST LINN, OREGON
SHEET NO. 2 OF 3

PROPOSED WETLAND POND
ELEV. 66.0

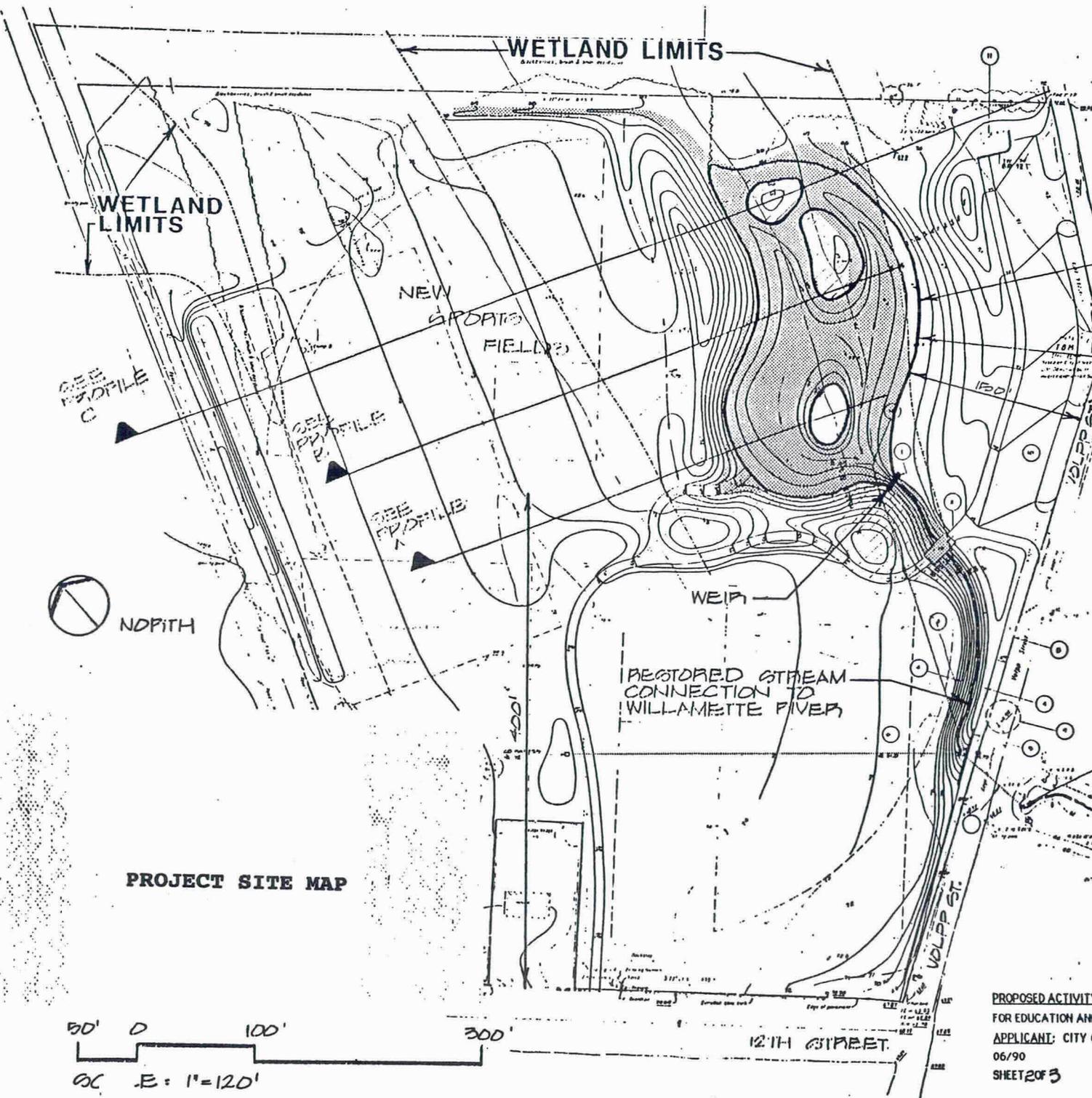
400'± TO
WILLAMETTE RIVER

LEGEND

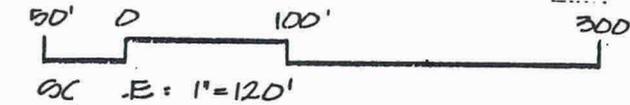
- SPOT ELEVATION RELATIVE TO CONTOUR LINES
- EXISTING SPOT ELEVATIONS - SEE NOTE 9
- WETLAND LIMITS
- PROPOSED CONTOUR
- EXISTING CONTOUR
- CATCH BASIN (C) OR PUPPIN
- STREET CENTERLINE
- RIVER ELEVATION
- TOP OF WALL
- BOTTOM OF WALL
- HIGH POINT
- SWALE LINE

FILL = 6200 CY
CUT = 3500 CY

EXISTING SHOULDERLINE



PROJECT SITE MAP



PROPOSED ACTIVITY: DEVELOP ENHANCED WETLAND AREA AND SPORTS FIELDS FOR EDUCATION AND RECREATION USE.
APPLICANT: CITY OF WEST LINN, IN CLACKAMAS COUNTY, OREGON
06/90
SHEET 2 OF 3

PROJECT AREA MAP

VICINITY MAP NOTE

LOCATION: LATITUDE 45° 21'±, LONGITUDE 122° 38'±, NEAR RIVER MILE 27.5 ON THE WILLAMETTE RIVER, WITHIN THE CITY OF WEST LINN, IN CLACKAMAS COUNTY, OREGON.

PROPOSED ACTIVITY: DEVELOP ENHANCED WETLAND AREA AND SPORTS FIELDS FOR EDUCATION AND RECREATION USE.

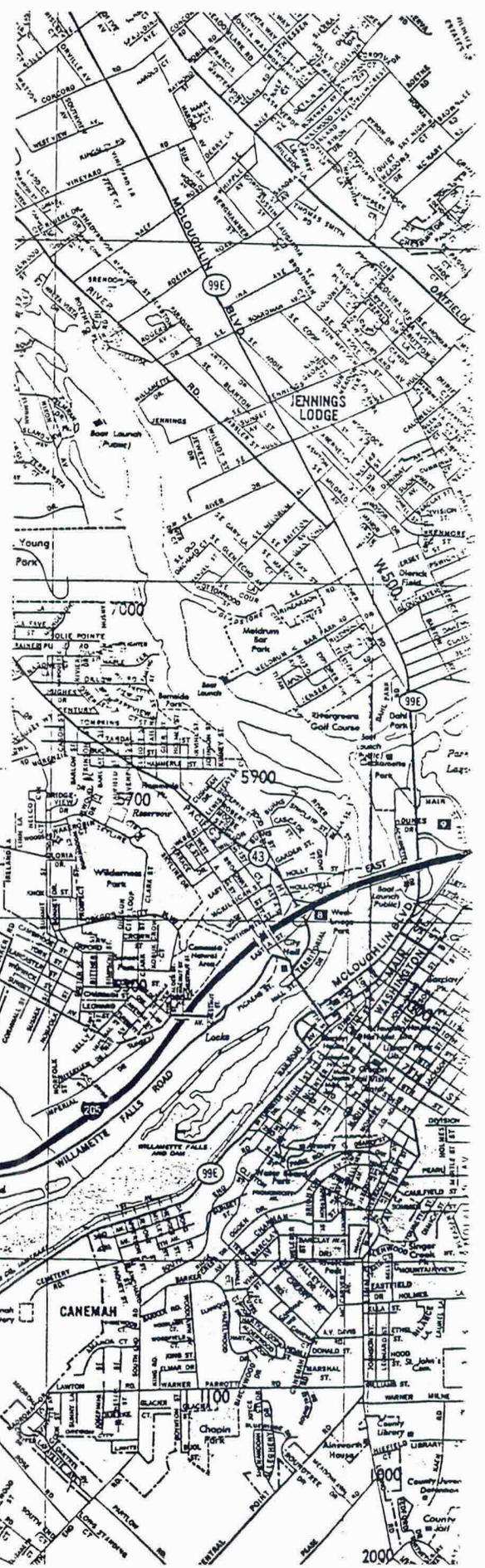
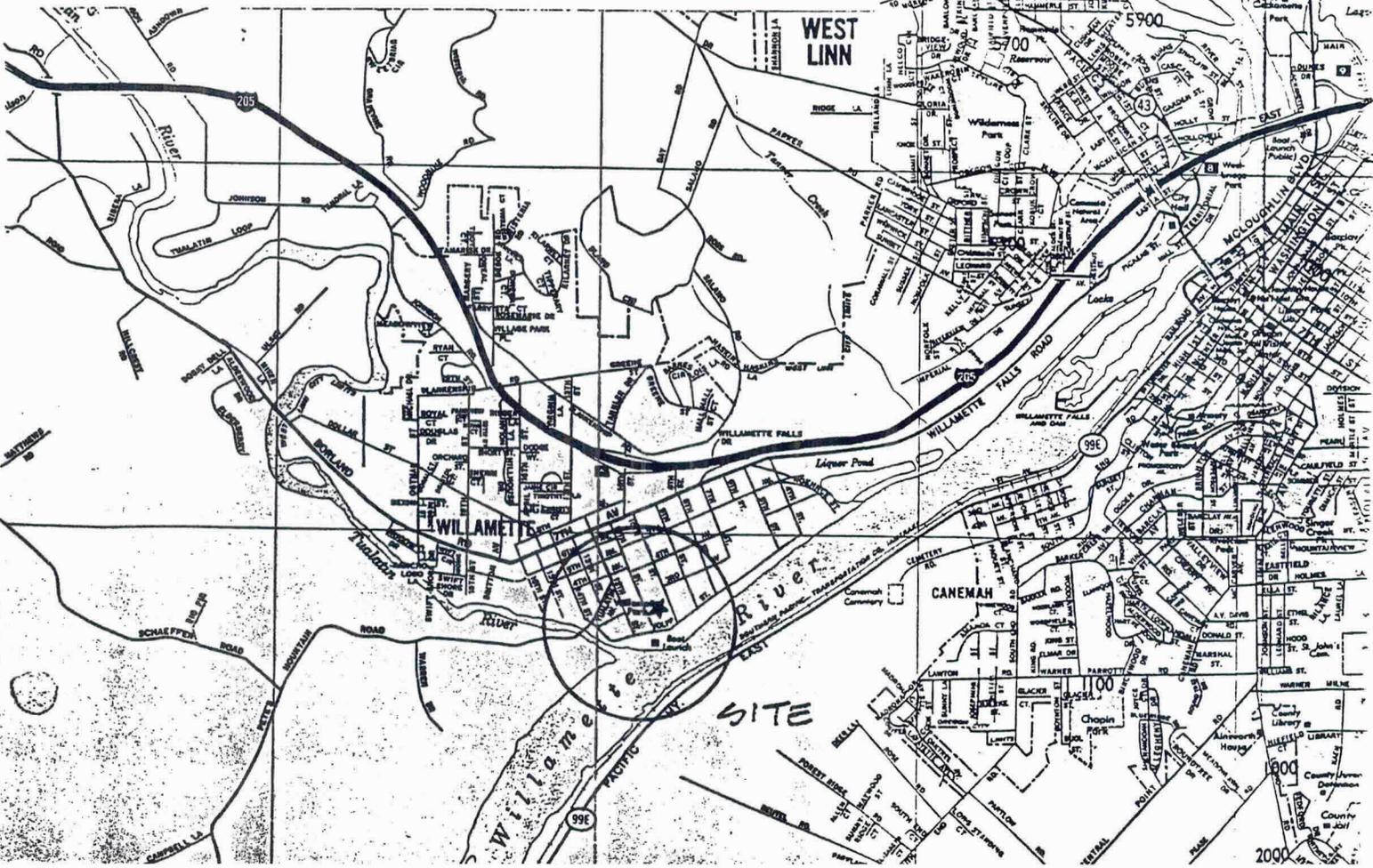
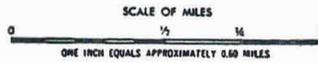
APPLICANT: CITY OF WEST LINN, IN CLACKAMAS COUNTY, OREGON

06/90

SHEET 1 OF 3



NORTH



West Linn project wins MSD grant for restoration of wetlands

■ The city will use the money to cover the cost of plants and trees installed near two rivers

By LINDA McCARTHY

Correspondent, The Oregonian

WEST LINN — A city wetlands restoration project near the confluence of the Willamette and Tualatin rivers has received a \$15,620 grant from the Metropolitan Service District.

The money is from the Greenspaces program. The city will use the money to reimburse its budget for the cost of wetlands plants and trees it bought to turn a grass-covered riverside area in the city's historic Willamette neighborhood into a thriving wetlands.

Mel Huie, Metro senior regional planner, presented a check to the city at a recent City Council meeting. The money came from a \$450,000 federal grant to Metro from the U.S. Fish and Wildlife Service.

The grant is being used for 32 projects in four Portland-area counties, Huie said.

The Metropolitan Greenspaces program began about three years ago as a regional effort to protect what is left of the last significant urban natural areas.

Clackamas, Multnomah, Washington and Clark counties' officials are working with private groups to preserve and manage a system of natural areas.

The program stresses the protection and management of significant natural areas and the preservation of plant and animal life in an urban setting using watersheds as the basis for ecological planning.

"We really want to work with local, city and county parks departments," Huie said.

West Linn officials worked with volunteers in coming up with a plan

for restoring the wetlands area in Willamette Park. The city applied for the grant in an open competition for the Metro funds in the summer of 1991.

Ken Worcester, West Linn parks supervisor, said work on the four-acre project began late last summer and is just about finished. Blackberries and tall grass were removed, a pond was dug out and trees were planted.

The city hired someone to do the grading and dig out the pond, but the rest of the work was handled by volunteers and city staff members, Worcester said.

"We have over 200 volunteer hours involved," he said.

Old tiles used as a filtration system were removed and a natural bio-filtration system — one using plants — was put in place, Worcester said.

"The area has a lot more wildlife habitat value," he said. "It has been replanted with a lot of native plants."

There is still work to do. The pond can't be filled until a drainage pipe is put in place. Volunteers will do more planting on Monday.

Huie said the project impressed Metro. "The whole area was a bunch of reed canary grass. . . . It takes over and they wanted to eliminate that," Huie said.