

STILLMAN

P.O. BOX 5140, PORTLAND, MAINE 04101

LAND RESTORATION AND DESIGN LLC

(207)774-6533

DAVID@STILLMANDESIGN.COM

April 14, 2004

Building Permit #

040707

Mr. Richard Knowland, Senior Planner
Portland Planning Department
City of Portland
389 Congress Street
Portland, ME 04101

389 G 003

4/29/04

Dear Rick:

Enclosed are nine copies of Portland Trails' Site Plan Application for upland trail construction within the Presumpscot River Preserve. I really appreciate all of your help working through site issues to determine the final layout.

This phase of trail development will create upland loops to complete the network begun last year with construction within the shoreland zone. Three new loops will add 3,750 feet to the trail network, using 2,100 feet of existing informal trails with an addition of 1,650 feet primarily along the Preserve boundary. These new sections offer challenging terrain for bikers and hikers while avoiding sensitive wetland habitat and slopes prone to erosion. As we have discussed, new trail sections will follow setbacks from the Preserve boundary according to site topography; the location of the trail may vary slightly from the maps to allow us to avoid tree removal and respect the natural features of the land. Portland Trails will build two 20' boardwalks to span MDEP non-jurisdictional streams in the locations we examined earlier this week. Plans for these structures are enclosed, as well as erosion and sedimentation control measures.

As in previous trail segments constructed in the Preserve, all work will be constructed by hand using wheelbarrows and other low-impact construction techniques. The trails will have limited hand-grubbing of roots and surfacing with wood chips generated onsite where appropriate. Clearing of vegetation will be restricted to trees less than 3" in diameter, and understory growth will be left intact except for areas where the existing trail is widened to 4' or new trail is constructed. Existing disturbed areas will be repaired and mulched or replanted as part of work activities.

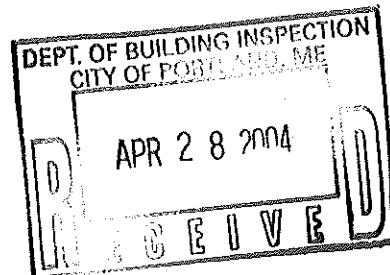
Boardwalks will be constructed on crushed stone beds located at each end of the structures. As currently designed no piers or footings will be excavated. Lumber will be precut and delivered to the site and field constructed in locations shown on the plans. As with trail construction, materials will be handled via low-impact means, carried by workers or in wheelbarrows. Work will be performed by the Maine Conservation Corps with oversight by experienced personnel from the Corps and Portland Trails. Construction is scheduled to begin in May and last approximately two months.

Please feel free to contact me at 774-6533 with any further questions or concerns. I look forward to hearing from you.

Best wishes,



David Buchanan
Stillman Restoration/Design LLC



cc Nan Cumming



City of Portland Site Plan Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Address of Proposed Development: Presumpscot River Preserve Zone: R2/UR2000

Total Square Footage of Proposed Structure:
160 sq. ft., boardwalks

Square Footage of Lot:
48 acres (approximately)

Tax Assessor's Chart, Block & Lot:
Chart# 389 Block# 6 Lot# 3

Property owner's mailing address:
City of Portland
389 Congress St.
Portland ME 04101

Telephone #:
877-8300

Consultant/Agent, mailing address, phone # & contact person:
David Buchanan
William Design 774-6533
P.O. Box 5143
Portland, ME 04101

Applicant's name, mailing address, telephone #/Fax#/Pager#:
Portland Trails
One India Street
Portland ME 04101
775-2411 (phone) 772-7673 (fax)

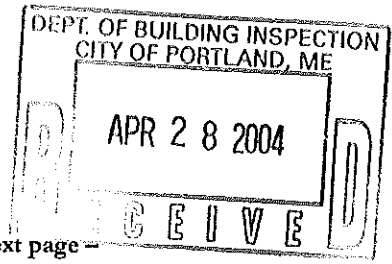
Project name:
Presumpscot
Preserve
Trails
Cyplan extension

Proposed Development (check all that apply)
 New Building Building Addition Change of Use Residential Office Retail Manufacturing
 Warehouse/Distribution Parking lot
 Subdivision (\$500.00) + amount of lots _____ (\$25.00 per lot) \$ _____
 Site Location of Development (\$3,000.00)
(except for residential projects which shall be \$200.00 per lot _____)
 Traffic Movement (\$1,000.00) Stormwater Quality (\$250.00)
 Section 14-403 Review (\$400.00 + \$25.00 per lot)
 Other TRAILS and 2 boardwalks

Major Development (more than 10,000 sq. ft.)
 Under 50,000 sq. ft. (\$500.00)
 50,000 - 100,000 sq. ft. (\$1,000.00)
 Parking Lots over 100 spaces (\$1,000.00)
 100,000 - 200,000 sq. ft. (\$2,000.00)
 200,000 - 300,000 sq. ft. (\$3,000.00)
 Over 300,000 sq. ft. (\$5,000.00)
 After-the-fact Review (\$1,000.00 + applicable application fee)

Minor Site Plan Review
 Less than 10,000 sq. ft. (\$400.00)
 After-the-fact Review (\$1,000.00 + applicable application fee)

Plan Amendments
 Planning Staff Review (\$250.00)
 Planning Board Review (\$500.00)



- Please see next page -

Who billing will be sent to: (Company, Contact Person, Address, Phone #)

Submittals shall include (9) separate folded packets of the following:

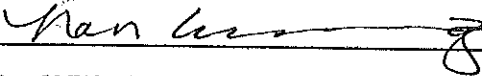
- a. copy of application
- b. cover letter stating the nature of the project
- c. site plan containing the information found in the attached sample plans check list

Amendment to Plans: Amendment applications should include 6 separate packets of the above (a, b, & c)
ALL PLANS MUST BE FOLDED NEATLY AND IN PACKET FORM

Section 14-522 of the Zoning Ordinance outlines the process; copies are available at the counter at .50 per page (8.5 x11) you may also visit the web site: ci.portland.me.us chapter 14

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant:



Date: 4/14/04

This application is for site review ONLY, a building Permit application and associated fees will be required prior to construction.

Development in Portland

The City of Portland has instituted the following fees to recover the costs of reviewing development proposals under the Site Plan and Subdivision ordinances: application fee; engineering fee; and inspection fee. Performance and defect guarantees are also required by ordinance to cover all site work proposed.

The **Application Fee** covers general planning and administrative processing costs, and is paid at the time of application.

The Planning Division is required to send notices to neighbors upon receipt of an application and prior to public meetings. The applicant will be billed for mailing and advertisement costs. Applicants for development will be charged an **Engineering Review Fee**. This fee is charged by the Planning Division for review of on-site improvements of a civil engineering nature, such as storm water management as well as the engineering analysis of related improvements within the public right-of-way, such as public streets and utility connections, as assessed by the Department of Public Works. The Engineering Review fee must be paid before a building permit can be issued. Monthly invoices are sent out by the Planning Division on a monthly basis to cover engineering costs.

A **Performance Guarantee** will be required following approval of development plans. This guarantee covers all required improvements within the public right-of-way, plus certain site improvements such as landscaping, paving, and drainage improvements. The Planning Division will provide a cost estimate form for figuring the amount of the performance guarantee, as well as sample form letters to be filled out by a financial institution.

An **Inspection Fee** must also be submitted to cover inspections to ensure that sites are developed in accordance with the approved plan. The inspection fee is 2.0% of the performance guarantee amount, or as assessed by the planning or public works engineer. The minimum inspection fee is \$300 for development, unless no site improvements are proposed. Public Works inspects work within the City right-of-way and Planning inspects work within the site including pipe-laying and connections. (The contractor must work with inspectors to coordinate timely inspections, and should provide adequate notice before inspections, especially in the case of final inspection.)

Upon completion of a development project, the performance guarantee is released, and a **Defect Guarantee** in the amount of 10% of the performance guarantee must be provided. The Defect Guarantee will be released after a year.

Other reimbursements to the City include actual or apportioned costs for advertising and mailed notices. All fees shall be paid prior to the issuance of any building permit.

For more information on the fees or review process, please call the Planning Division at 874-8719 or 874-8721.



City Of Portland Site Plan Checklist

Project Name, Address of Project

Application Number

Submitted () & Date Item Required Information Section 14-525 (b,c)

_____	(1)	Standard boundary survey (stamped by a registered surveyor, at a scale of not less than 1 inch to 100 feet and including:	1
_____	(2)	Name and address of applicant and name of proposed development	a
_____	(3)	Scale and north points	b
_____	(4)	Boundaries of the site	c
_____	(5)	Total land area of site	d
_____	(6)	Topography - existing and proposed (2 feet intervals or less)	e
_____	(7)	Plans based on the boundary survey including:	2
_____	(8)	Existing soil conditions	a
_____	(9)	Location of water courses, marshes, rock outcroppings and wooded areas	b
_____	(10)	Location, ground floor area and grade elevations of building and other structures existing and proposed, elevation drawings of exterior facades, and materials to be used	c
_____	(11)	Approx location of buildings or other structures on parcels abutting the site	d
_____	(12)	Location of on-site waste receptacles	e
_____	(13)	Public utilities	e
_____	(14)	Water and sewer mains	e
_____	(15)	Culverts, drains, existing and proposed, showing size and directions of flows	e
_____	(16)	Location and dimensions, and ownership of easements, public or private rights-of-way, both existing and proposed	f
_____	(17)	Location and dimensions of on-site pedestrian and vehicular access ways	
_____	(18)	Parking areas	g
_____	(19)	Loading facilities	g
_____	(20)	Design of ingress and egress of vehicles to and from the site onto public streets	g
_____	(21)	Curb and sidewalks	g
_____	(22)	Landscape plan showing:	h
_____	(23)	Location of existing proposed vegetation	h
_____	(24)	Type of vegetation	h
_____	(25)	Quantity of plantings	h
_____	(26)	Size of proposed landscaping	h
_____	(27)	Existing areas to be preserved	h
_____	(28)	Preservation measures to be employed	h
_____	(29)	Details of planting and preservation specifications	h
_____	(30)	Location and dimensions of all fencing and screening	i
_____	(31)	Location and intensity of outdoor lighting system	j
_____	(32)	Location of fire hydrants, existing and proposed	k
_____	(33)	Written statement	c
_____	(34)	Description of proposed uses to be located on site	l
_____	(35)	Quantity and type of residential, if any	l
_____	(36)	Total land area of the site	b2
_____	(37)	Total floor area and ground coverage of each proposed building and structure	b2
_____	(38)	General summary of existing and proposed easements or other burdens	c3
_____	(39)	Method of handling solid waste disposal	4
_____	(40)	Applicant's evaluation of availability of off-site public facilities, including sewer, water and streets	5
_____	(41)	Description of any problems of drainage or topography, or a representation that there are none	6
_____	(42)	An estimate of the time period required for completion of the development	

Neighborhood Meetings

In May of 2001, the Planning Board's review procedures were revised to improve neighborhood notification and encourage communication between applicants for development and neighborhood residents.

Neighborhood meetings, organized and hosted by the applicant, are now required for zone change proposals, subdivisions of 5 or more units/lots, and for any major site plan proposals only. Notification of the neighborhood meeting must be mailed to property owners within 500 ft. of the development parcel.

Scheduling of Neighborhood Meeting:

The neighborhood meeting must be held after the first Planning Board workshop but not less than seven (7) days prior to the Planning Board public hearing.

The meeting should be held in the evening, during the week, at a location in the neighborhood.

Upon request, the Planning Division will provide to the applicant mailing labels for the neighborhood meeting invitation. We require 48 hours notice to generate the mailing labels. A charge of \$1.00 per sheet of labels will be payable upon receipt of the labels.

Notice:

The applicant shall send notices to property owners within 500 ft. of the development site at least 7 days prior to the neighborhood meeting. Notice shall contain a brief description of the project, date, time and location of the neighborhood meeting.

Sign-up Sheets and Meeting Minutes:

At the meeting, the applicant shall circulate a sign-up sheet for those in attendance. The applicant shall also keep minutes of the meeting.

After holding the neighborhood meeting, the applicant shall submit the sign-up sheet and meeting minutes to the Planning Division. The meeting minutes and sign-up sheet will be attached to the Planning Board report. A public hearing will not be scheduled until the meeting minutes and sign-up sheet are submitted to the Planning Authority.

Please call the Planning Office (874-8719) if you have any questions.



Commercial Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>Presumpscot River Preserve</u>		
Total Square Footage of Proposed Structure <u>2 boardwalks 160 sq. ft.</u>	Square Footage of Lot <u>approx. 48 acres</u>	
Tax Assessor's Chart, Block & Lot Chart# <u>389</u> Block# <u>6</u> Lot# <u>3</u>	Owner: <u>City of Portland</u> <u>369 Congress St.</u> <u>Portland ME 04101</u>	Telephone: <u>874-8300</u>
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: <u>Portland Trails</u> <u>775-2411</u> <u>One India St.</u> <u>Portland, ME 04101</u>	Cost Of Work: \$ <u>3000</u> Fee: \$
Current Specific use: <u>open space preserve with internal trails</u>		
Proposed Specific use: <u>trail improvement</u>		
Project description: <u>This application is for an extension of trail construction begun last year. Two boardwalks will cross non-MDEP jurisdictional streams to complete upland trail loops.</u>		
Contractor's name, address & telephone: <u>Portland Trails LLC</u>		
Who should we contact when the permit is ready: <u>Sam (Nan Cummings exec. director)</u>		
Mailing address:		
Phone:		

Please submit all of the information outlined in the Residential Application Checklist. Failure to do so will result in the automatic denial of your permit.

At the discretion of the Planning and Development Department, additional information may be required prior to permit approval. For further information stop by the Building Inspections office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: <u>Nan Cummings</u>	Date: <u>4/14/04</u>
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Permit Fee: \$30.00 for the first \$1000.00 Construction Cost, \$9.00 per additional \$1000.00 cost

This is not a Permit; you may not commence any work until the Permit is issued.



Commercial Building Permit Application Checklist

All of the following information is required and must be submitted in order to help insure an expeditious permitting process.

A Complete Set of construction drawings must include:

Note: Construction documents for construction in excess of \$50,000.00 must be prepared by a Design Professional and bear their seal.

- Cross sections w/framing details
- Detail of any new walls or permanent partitions
- Floor Plans & Elevations
- Window and door schedules
- Foundation plans with required drainage and damp proofing (if applicable)
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review must be included.

Separate permits are required for internal & external plumbing, HVAC, and electrical installations.

If there are any additions to the footprint or volume of the new or existing structure(s), a plot plan is required and must include:

- The shape and dimension of the lot, footprint of the proposed structure and the distance from the actual property lines drawn to scale. Structures include decks, porches; a bow windows cantilever sections and roof overhangs, sheds, pools, garages and any other accessory structures must be shown.
- Boundary survey to scale showing North arrow; zoning district and setbacks.
- First floor sill elevation (based on mean sea level datum)
- Location and dimensions of parking areas and driveways
- Location and size of both existing utilities in the street and the proposed utilities serving the building
- Location of areas on the site that will be used to dispose of surface water.
- Existing and proposed grade contours
- Silt fence locations

Surveyor's monuments must be in place and the lot staked for a setback inspection.

Please submit all of the information outlined in this Commercial Application Checklist. Failure to do so will result in the automatic denial of your permit.

At the discretion of the Planning and Development Department, additional information may be required prior to permit approval. For further information stop by the Building Inspections office, room 315 City Hall or call 874-8703.

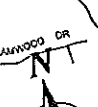
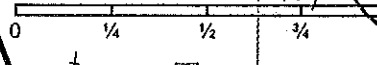
Permit Fee: \$30.00 for the first \$1000.00 Construction Cost, \$9.00 per additional \$1000.00 cost

This is not a Permit; you may not commence any work until the Permit is issued.

- Cape Elizabeth**
ALBION RD H5
ALEXANDER DR H4
BEACH BLUFF TERR H5
BELFIELD RD G5
BEVERLY TERR G4
BIRCH RD G5
BIRCHWOOD RD F5
BRADFORD RD G4
BRIENWOOD RD H5
BRIDLE PATH WAY G5
BRUCE AV H5
CAMPION RD G5
CANTER LN H5
CANTERBURY WAY G4
CAPEWOODS DR G5
CEDAR RD G5
CHAMBERS RD H5
CHANNELS DE F5
- CHARLES RD F5**
CHERRY LN F5
CHESVUS RD H5
CUNNEY ROCK RD G5
CLYTON RD H5
COLUMBUS RD G5
COUNCROD PL G5
COTTAGE FARMS RD F5
COTTAGE LN F5
CRACKCOCK F5
CRANBROOK DR G5
DARCARLEY PD G5
DAWE RD G4
DEARBORN DR H5
DYER POND RD G5
EASTMAN RD H4
ELIZABETH RD F5
ELWOOD RD F5
ERIE RD G4
- EVERGREEN CIR H5**
FIELDSTONE RD H5
FOREST RD F5
FRANK LN G5
GARDEN LN F5
GATEEDGE DR G5
GELBERT LN F5
GLEN AV F5
GLENDON RD G5
GORDONS LN G5
GRANITE ROGE RD G5
GRAYSTONS RD G5
HAMILIN ST G4
HARRISON AV G4
HEMLOCK HILL RD G5
HERMIT THRUSH RD G5
HIGH BLUFF RD G5
HIGHLAND ST G5
HADA F5
- HILL ST G5**
HILL WAY H5
HILLCREST DR H5
HILLCREST RD F5
ROBSTEAD RD G5
HUNTER PL G5
HUNTS CLUB RD G5
IRONCLAD RD G5
ISLAND VIEW RD F5
IVE RD G5
JACKSON F5
JORDAN LN G5
JULIE ANN LN H5
JUNIPER LN H5
KILLDEER RD G5
LAWSON RD G5
LISENHOOD RD H5
LNN ST G5
LUNWOOD ST F5
LITTLE JOHN RD G5
LOCKSLEY RD G5
- LYNDON LN G5**
MANOR COVE LN F5
MANOR WAY G5
MANTRA ST G5
MAPLE LN H5
MCALLEY RD G5
MEADOWVIEW LN G5
MERMAC PL G5
MITCHELL RD G5, H5
MONTGOMERY TERR F5
MOUNTAIN VIEW RD F5
MURRAY DR H5
OAK VIEW DR H5
OAKHURST RD G5
OAKWOOD RD H5
OCEAN HURBER RD H5
OCEANVIEW RD F5
OLD COLONY LN G5
OLDFORT RD G5
- ORCHARD RD G5**
PATRICIA DR H5
PENWOOD CIR H5
PHEASANT HILL RD H5
PHILIP RD H5
PINE ST G5
PINE POINT RD H5
PLEASANT AV H4
PLEASANT VALLEY AV H5
POINT RD G5
PURPOCK DR G4
QUANTZ KNOB RD G5
RAMBLE RD H5
RAND RD H5
RESOLUTION PL G5
RIDGE RD H4
ROBINHOOD LN G5
ROCK CREST DR G5
ROCK WALL LN G5
ROCKY HILL RD G5
- ROCKY KNOLL RD G5**
RUSSET LN H4
SAWYER ST H4
SCHOONER RD G5
THRASHER RD G5
TIRES EDGE RD G5
TODD RD H5
VALLEY RD H4
VALLEY ST G5
WARREN AV F5
WATERHOUSE RD G4
WESTMINSTER TERR F5
WILSON DR H5
WALTON LN G4
WINDMILL LN G5
WINDWARD WAY F5
WINSLOW PL G5
WOOD RD G5
WOODCREST RD G5
WOODLAND RD F5
- Falmouth**
ALLEN AV EXT C2
ANDERSON DR B4
ANDREWS AV C4
ARTHUR AV C4
ASTER LN C2
AUSTRIAN WAY B2
AUCHIN RD C4
BAY SHORE RD C4
BLACKSTRAP RD C1
BLUEBERRY LN B3
BRACKETT RD B3
BRAYTON AV C3
BROOK RD B1
BROOKFIELD RD B1
BROWN RD C4
BUCKNAM RD B3
BUCKNAM RD B3
CARRIAGE RD C2
CARROLL ST C4
CHARLOTTE DR C2
CHESTER AV C4
- CHURCH ST B3**
CLEARWATER DR B3
CLIFTON RD C3
COLE ST B3
DEPOT RD B3
DIAMOND ROGE WAY B3
EARL ST B1
EDGEWATER RD B4
ELM DR B4
EUGENE ST C1
FALLS RD B2
FALMOUTH RD B2, B3
FALMOUTH ROGUES RD B3
FERN AV C4
FORESIDE COMMON C4
FORESIDE RD B4
FRUNY RD B4
GILSLAND FARM RD C4
- GOLDENROCK**
GREENWAY
HILLS HILL RD
HAMILIN RD
HAMMOND RD
HARDING AV
HARTFORD AV
HAWKEYE LN
HEATHER LN
HUPLEY LN
IVY PL C4
JACKSON DR
JUNIPER LN
JUST-A-MERE
KELLEY RD C4
KIBBERLY LN
KNIGHT HILL
LAURET ST
LEWIS RD
LAUREL ST B
LEDGEWOOD

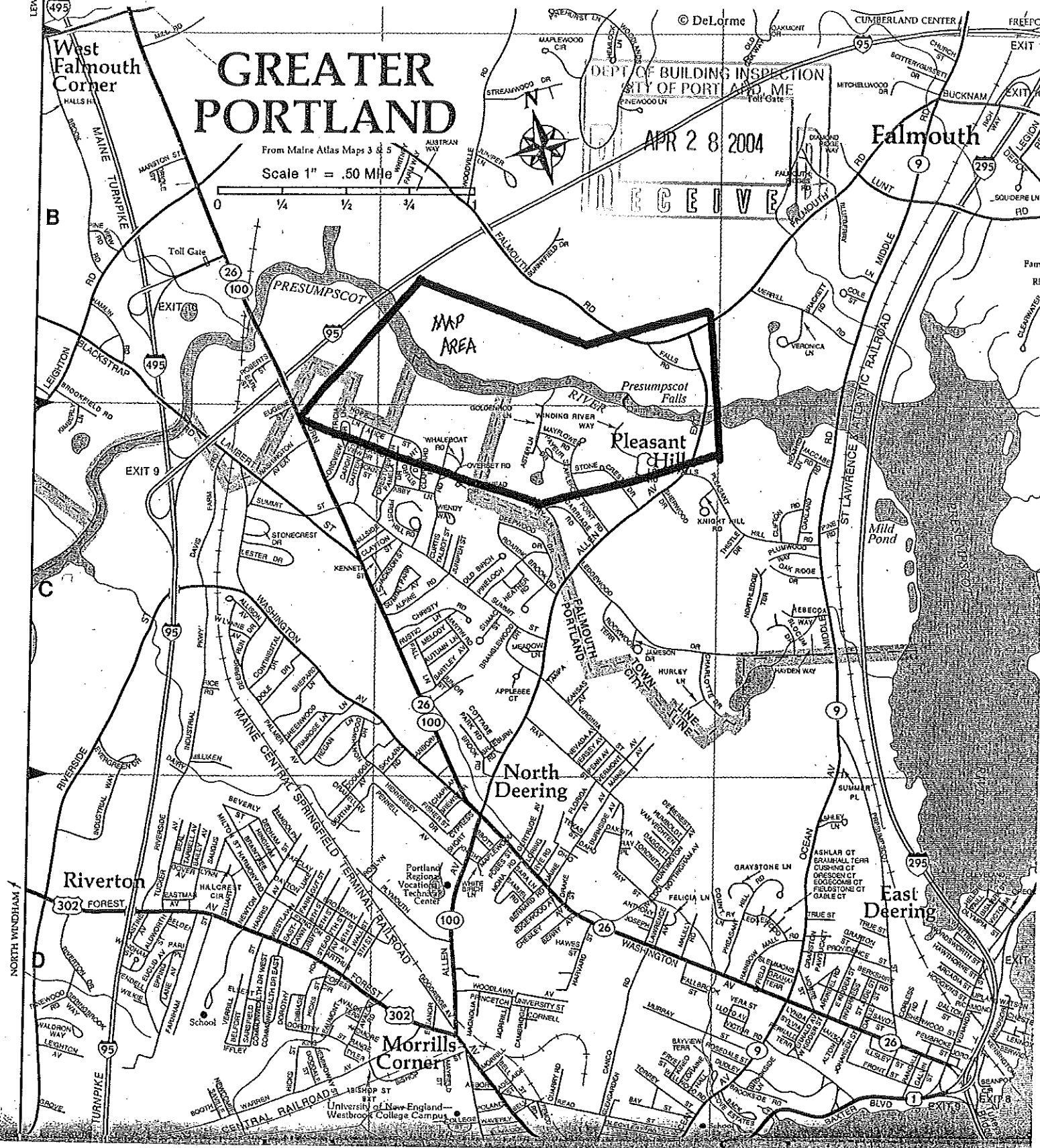
GREATER PORTLAND

From Maine Atlas Maps 3 & 5
Scale 1" = .50 Mile



APR 28 2004

RECEIVED



PRESUMPSCOT RIVER PRESERVE (PRP)

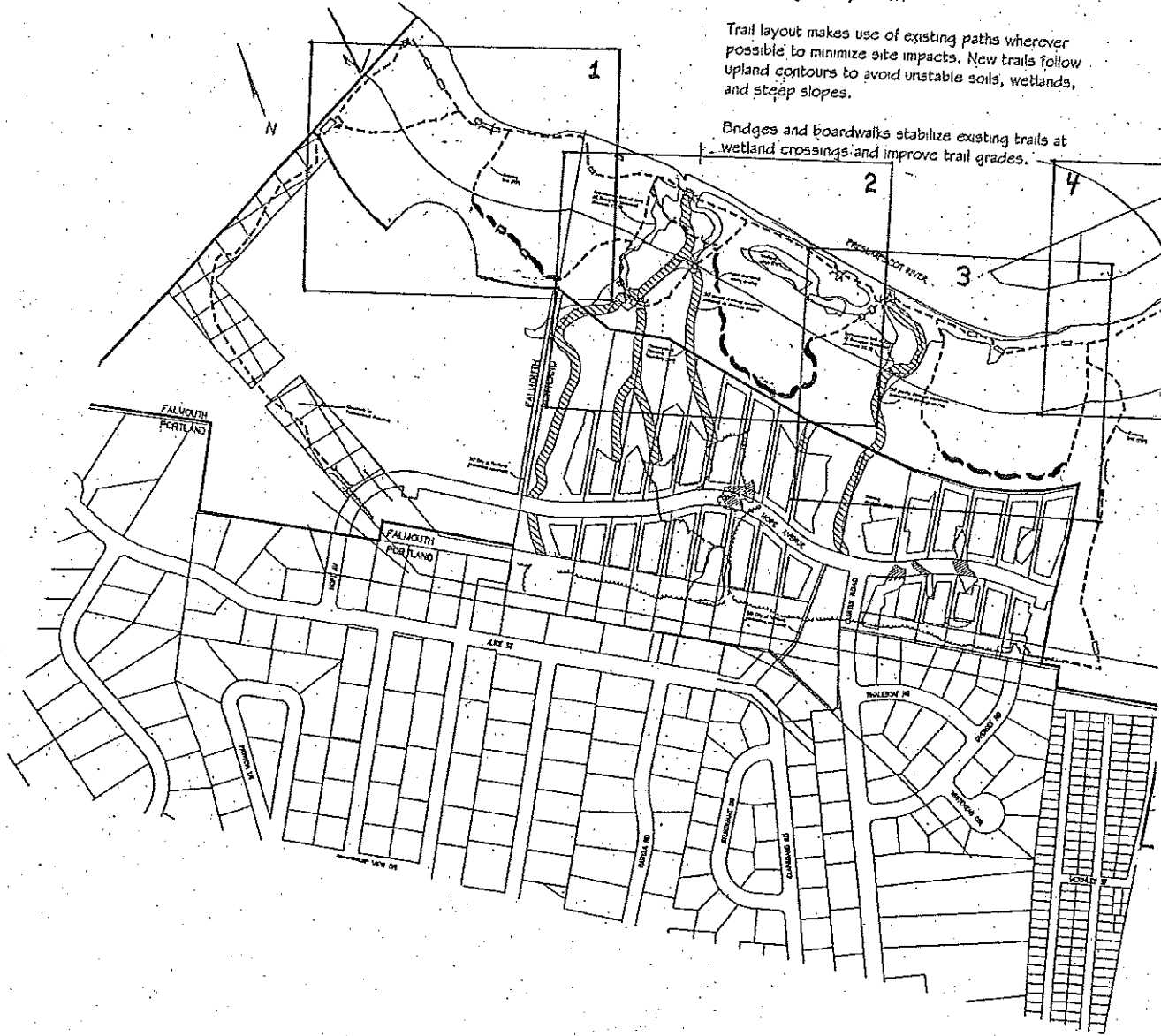
Approximately 2500' of new trail creates a series of completed loops that offer varied routes. Only 100' of this new construction, which will follow an abandoned roadbed, falls within the 250' shoreland zoning overlay.

Trail improvement includes blocking of approximately 250' of trail within delineated wetland areas within the shoreland zoning overlay, including an extensively eroded mountain bike stream crossing. The overall design provides a net reduction of total trails within the zoning overlay buffer.

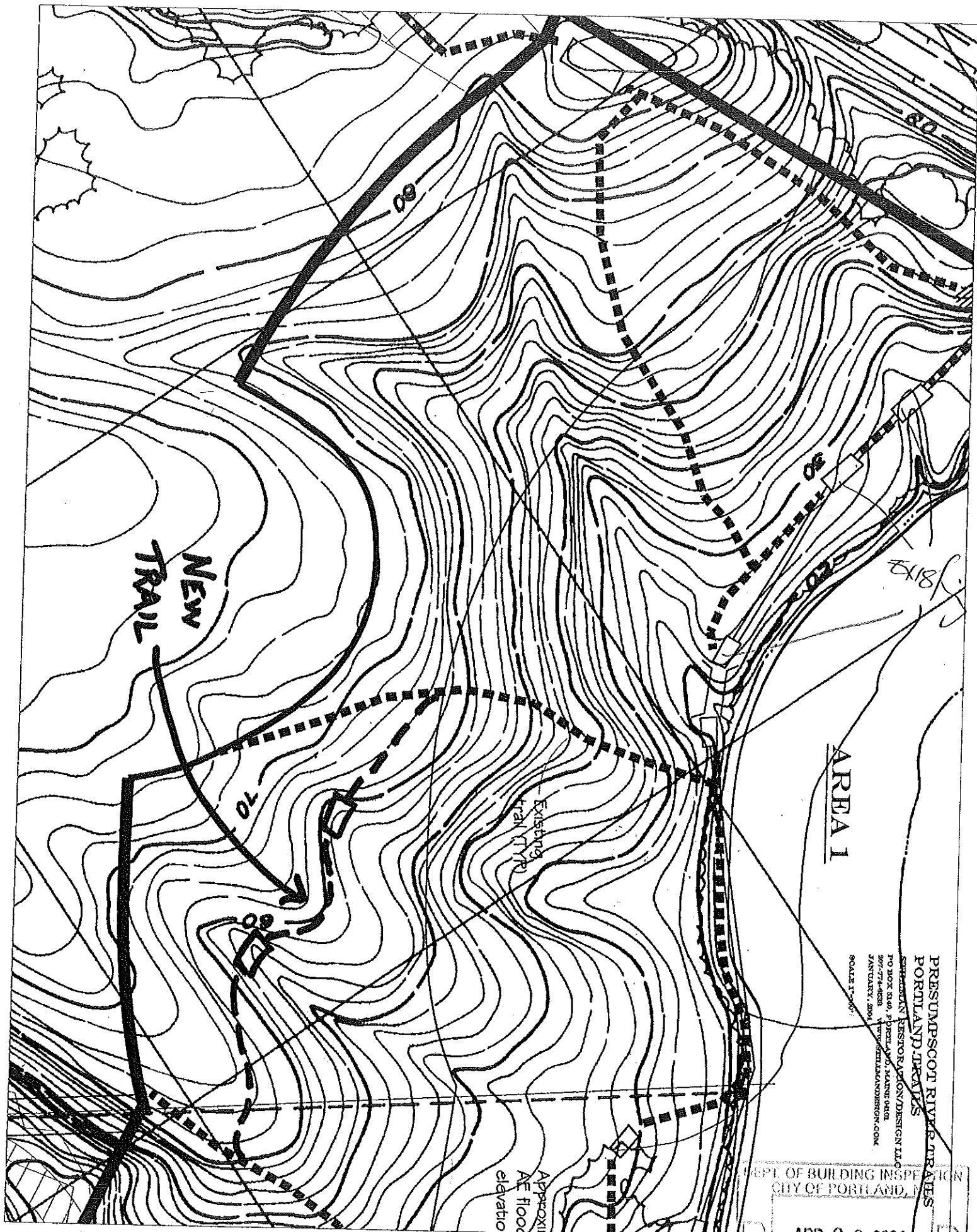
Trail layout makes use of existing paths wherever possible to minimize site impacts. New trails follow upland contours to avoid unstable soils, wetlands, and steep slopes.

Bridges and boardwalks stabilize existing trails at wetland crossings and improve trail grades.

250' Shoreland Area



DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
APR 28 2004
RECEIVED



NEW TRAIL

AREA 1

Existing Trail (TYP)

Approximate
At flood
elevation

PRESUMPSCOOT RIVER BRIDGES
PORTLAND, OREGON
SURVEYING, RESTORATION/DESIGN LLC
PO BOX 840, PORTLAND, OREGON 97208
503-774-8838 WWW.SURVEYINGRESTORATION.COM
JANUARY 2004
SCALE 1"=500'

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, OREGON

APR 28 2004

RECEIVE

500'



Approximate limit of zone
AE floodplain (assumed
elevation 23.5)

55007

AREA 2

Existing
trail (TYP)

NEW TRAIL

Wetland
edge (TYP) X-21.8

Limit 500' diameter
zone overlap

Approxim
AE floodp
elevation

Resumptio
reserve
boundary (TYP)

Wetland
edge (TYP)

PRESUMSCOFF RIVER TRAILS
PORTLAND TRAILS
SHELMAN SENIOR MONUMENTAL DESIGN LLC
505 271-8888 www.sheelman.com
2400 N. 10th St. Portland, OR 97228
PHONE: 503-271-8888

DEPT. OF CITY CLERK
APR 2007

PRESUMF

X-95.5

X-9.1

50

RESUMPS SCOT RIVER

AREA 3

DEPT. OF BUILDING INSPECTOR
CITY OF PORTLAND, ME
APR 28 2004
RECEIVED

PREMPS SCOT RIVER TRAILS
PORTLAND TRAILS
SITE PLAN RESTORATION/DESIGN
70 BOX 840, PORTLAND, MAINE 04101
507-774-4000 WWW.SITELANDDESIGN.COM
JANUARY, 2004
SCALE 1"=100'

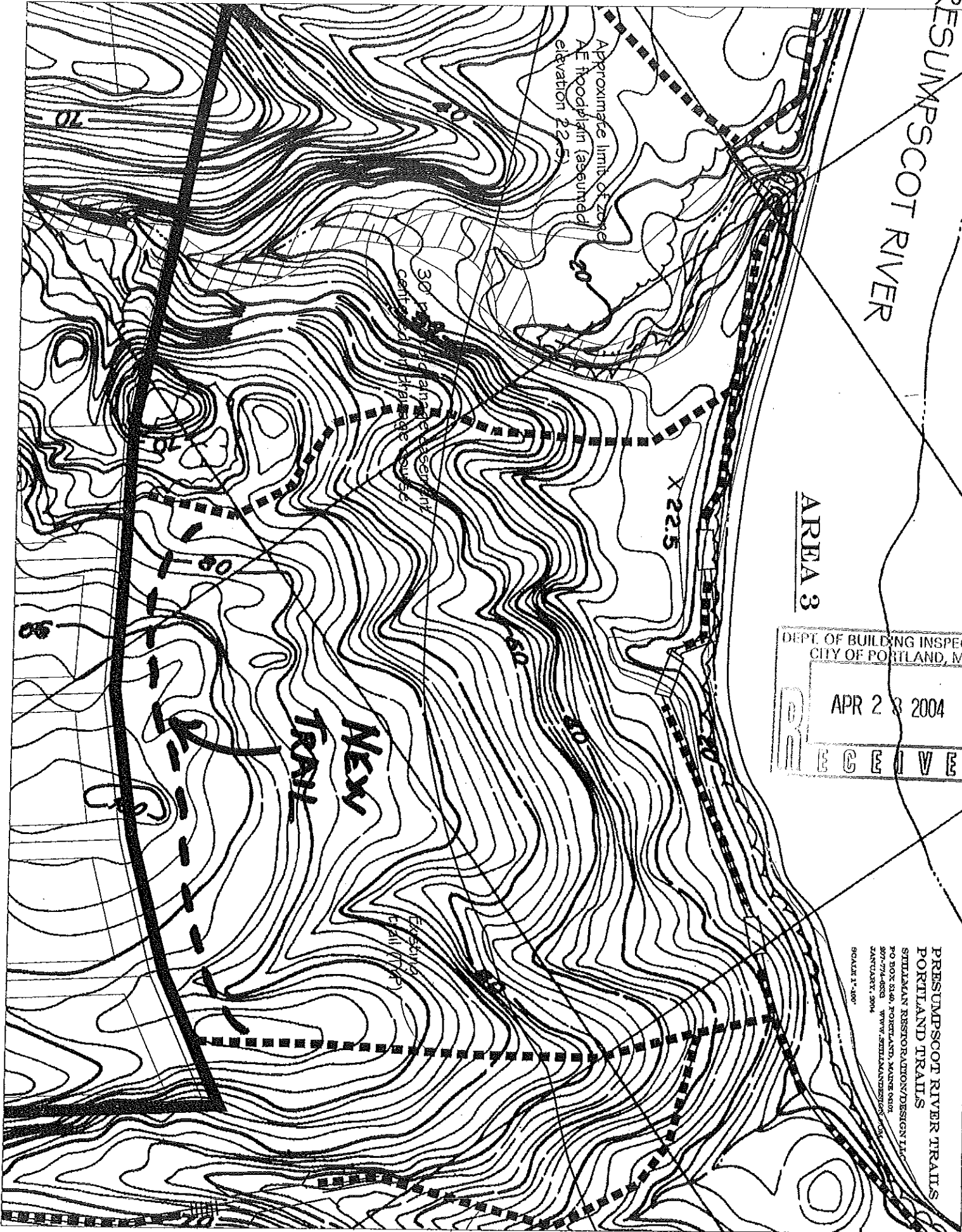
Approximate limit of zone
of floodplain (assumed
elevation 22.5)

30' minimum
center-to-center
clearance

X 22.5

NEW
TRAIL

EXISTING
TRAIL



Presumpscot River Preserve Trail Construction

Portland, Maine

Erosion and Sedimentation Control Plan

February 18, 2003

A. Introduction

The following plan for controlling sedimentation and erosion from this project is based upon sound conservation practices such as those outlined in the Maine Erosion and Sedimentation Control Handbook for Construction: Best Management Practices by the Cumberland County Soil and Water Conservation District and the Maine Department of Environmental Protection dated March 1991. The Contractor shall be made familiar with the aforementioned publication and adhere to it and the practices presented herein.

B. General Erosion and Sedimentation Control Practices

The following general erosion control practices will be used to prevent erosion and sedimentation before, during and after the construction of this project. Special care shall be used at all times in an effort to: (1) limit disturbance and hence erosion (2) correct any erosion problems immediately (3) regularly monitor the practices implemented and (4) revegetate disturbed areas as soon as possible.

Strawbales and Silt Fence

1. Silt fencing shall be installed between the work areas and the resource (river, stream or wetland).
2. Strawbales will be installed where silt fence cannot be used due to alignment or elevations.
3. The specific locations requiring strawbales and/or silt fence will be set in the field by the project designer/manager.

C. Construction Phase

The following general practices will be used to prevent erosion during construction of this project.

EXHIBIT B

1. Only those areas under active construction will be cleared and left in an untreated or unvegetated condition. If final grading, mulching and restoration will not occur within 5 days, the area will be mulched immediately with hay at a rate of two tons per acre.
2. Prior to the start of construction in a specific area, silt fencing and/or strawbales will be installed, at the toe of slope and in areas as established in the field to protect against any construction-related erosion.
3. Topsoil will be stockpiled when necessary in areas which have minimum potential for erosion and will be kept as far as possible from drainage areas. All stockpiles expected to remain longer than 5 days shall be seeded with conservation mix and mulched immediately.
4. Side slope areas or other areas expected to remain unseeded or mulched longer than 5 days shall be:
 - a. Treated with woodchips or mulch immediately.
 - b. Monitored every week until final stabilization can occur. These areas shall be remulched as needed to protect slopes.

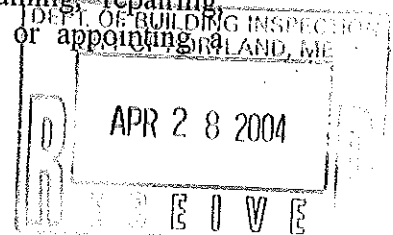
D. Post-Construction Revegetation

The following general practices will be used to prevent erosion as soon as an area is ready to undergo final grading.

1. Existing, excavated loam will be spread over disturbed areas and graded to a uniform depth and natural appearance.
2. Seed and mulch shall be installed at the time of loaming, or woodchip mulch applied.
3. Straw matting shall be used on slopes greater than 3H:1V or as indicated on the drawings. Straw matting shall be securely fastened to the ground with staples as recommended by the manufacturer.
4. Following final seeding or stabilization, the site will be inspected every 30 days until 80% cover has been established. Reseeding will be carried out by the contractor within ten days of notification by the project designer/manager that the existing catch is inadequate.

E. Monitoring Schedule

The contractor shall be responsible for installing, monitoring, maintaining, repairing, replacing and removing all of the erosion and sedimentation controls or appointing a qualified subcontractor to do so.



Maintenance measures will be applied as needed during the entire construction cycle. After each rainfall, a visual inspection will be made of all erosion and sedimentation controls as follows:

1. Strawbale barriers and silt fence shall be inspected and repaired once a week or immediately following any significant rainfall. Sediment trapped behind these barriers shall be excavated when it reaches a depth of 6" and redistributed to areas undergoing final grading. Should the strawbale barriers prove to be ineffective, the contractor shall install silt fence behind the straw bales.

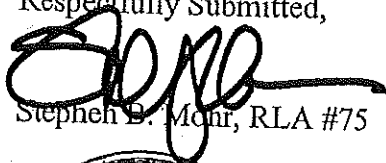
F. Erosion Control Removal

An area is considered stable if it is mulched to a depth of 8" or if 80% growth of planted seeds are established. Once an area is considered stable, the erosion control measures can be removed as follows:

1. Strawbales and Silt Fence
The strawbales and silt fence shall be disposed of legally and properly off-site. All sediment trapped behind these controls shall be:
 - a. Distributed to an area undergoing final grading
 - b. Graded in an aesthetic manner to conform to the topography, fertilized seeded and mulched in accordance with the rates previously stated.
2. Miscellaneous
Once all the trapped sediments have been removed from the temporary sedimentation devices, the disturbed areas must be regarded in an aesthetic manner to conform to the surrounding topography. Once graded these disturbed areas must be loamed (if necessary) fertilized, seeded and mulched in accordance with the rates previously stated.

When the above practices are applied the project will result in control of the erosion and sedimentation potential associated with this project.

Respectfully Submitted,


Stephen B. Mohr, RLA #75

