CITY OF PORTLAND, MAINE



389 CONGRESS STREET PORTLAND, MAINE 04101 (207) 874-8300

DEPARTMENT OF PLANNING & URBAN DEVELOPMENT

P. SAMUEL HOFFSES, CHIEF INSPECTION SERVICES DIVISION

July 26, 1989

The Six Fifty Group 638 Congress Street Portland, ME 04101

RE: 650 Brighton Avenue - Handicapped accessibility

Gentilemen:

As a result of a recent collaint, an inspection with regard to handicapped accessibility was made of the building at the above location. Our letter to you of January 12, 1988 states that the entire building must meet all ANSI A 117.1 1986 standards providing accessibility and usability for physically handicapped persons.

While there is a handicapped accessible restroom facility on the street level of this building, the rest of the building is inaccessible; and the complaints with regard to lever hardware, restrooms (shower stall, grab bars, etc.), and handrails are justified.

Please have this building brought into compliance at your earliest convenience.

Sincerely,

Kathleen A. Taylor Code Enforcement Officer

cc: P. Samuel Hoffses, Chief of Inspection Services

650 Brighton Aug Complaints. Na elevator - tue No lever hardware - partially true .. exit to wheelchoir ramp has hardware. Other exit does not. Restrooms -? Best There are marked handicapped accessible restrooms on street level. There are other restrooms, including a shower, in the blood which are not accessible. Handrail - true

alpha One

Center for Independent Living

July 18, 1989

Joseph E. Gray, Jr.
Director of Planning
& Urban Development
City of Portland
389 Congress Street
Portland, ME 04101

Dear Mr. Gray:

mandicapped Americans.

Please Selection of the break years please please please problems and the selection of the selection

We are writing you, once again, to express our disappointment with the level of compliance with access laws in the City of
Portland. Previously, you suggested contacting Mr. Hoffses,
which we have done. Consequently, we have worked with members of
his staff and have provided training about the Maine Human Rights
act and the ANSI requirements for making buildings fully accesstaff.

At the initiation of our discussions, I was working to correct violations in more than 150 buildings where permits issued in 1982 through 1985 did not require accessibility. We are still working on those violations with the building owners. Most of the building owners have identified the fact that they received a permit and a Certificate of Occupancy, and were never told about access. I believe that today more people are being told about access.

Nevertheless, numerous buildings are built today (and in the years since 1985) that do not comply with the Human Rights Act. The following new facilities have been identified by us as having major architectural barriers preventing use by a person with a disability. These buildings have been identified only by informal observation of construction underway.

Panda House (Restaurant) 436 Fore Street: There is a step at the door and all dining is upstairs with no elevator. There is no lever hardware on doors or lavatory. The bathrooms are inaccessible.

elevator to the insurance, medical, and other offices. There is no lever hardware. The restrooms have an inade-handrail on the stairs is inadequate in that there is only is a difficult shape to grip.

85 E Street, Suite #1, South Portland, Maine 04106 207-767-2189 Voice or TDD South Portland Augusta Brewer Presque Isle

. 1

irger King (restaurant) 449 Forest Avenue: There is no access to the upper level offices. The curb ramp is steep. The restroom door has inadequate maneuvering space, the urinal is too high, the grab bars are too short, there is no lever hardware, and the pipes are not insulated. There is no lever hardware of interior doors.

18 Baxter Blvd. (offices): The entrance has steps and no floor level is accessible. Handrails on the stairs do not extend.

88 Middle Street (coffices and restaurant renovation): There is a step at each door. There is no access to the second floor. The bathrooms in Hugo's do not have maneuvering space and have no grab bars.

There are many more buildings than these of recent construction and renovation where similar barriers or losser barriers have been noted. Typical omissions in the review of plans and construction are:

1) no level entrance without a step,

2) thresholds that are higher than a 1/2 inch,

3) doors that do not have lever hardware,

4) incorrect bathroom configurations and fixture installations, and

5) handrails on stairs that do not have adequate length, shape, or which are only on one side.

I hope that you will have the City of Portland correct the violations in the buildings which I have indicated. Furthermore, it is encumbent upon the City of Portland to begin complying with the law itself by carrying out its obligations under the Human Rights Act. Please get in touch with me about how this change will be made. It becomes increasingly difficult for as to chase down every violation and convince owners to correct the violations, causing us to receive the brunt of criticism in the process.

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I look forward to hearing from you. Thank you.

Sincerely,

Exic Dibner

Access Specialist

ED:db

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CITY OF PORTLAND, MAINE



339 CONGRESS STREET Pt. .TLAND, MAINE 04101 (207) 874-8300

DEPARTMENT OF PLANNING & URBAN DEVELOPMENT

P. SAMUEL HOFFSES, CHIEF INSPECTION SERVICES DIVISION

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July 26, 1989

The Six Fifty Group 638 Congress Street Portland, ME 04101

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Please have this building brought into compliance at your earliest convenience.

Sincerely,

Kathleen A. Taylor Code Enforcement Officer

cc: P. Samuel Hoffses, Chief of Inspection Services

CITY OF PORTLAND, MAINE



389 CONGRESS STREET PORTLAND, MAINE 04101 (207) 775-5451

DEPARTMENT OF PLANNING & URBAN DEVELOPMENT

P. SAMUEL HOFFSES, CHIEF INSPECTION SERVICES DIVISION

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and a shall

January 12, 1988

RE: 650 Brighton Avenue

The Six Fifty Group 638 Congress Street Portland, Maine 04101

Gentlemen:

Your application to construct an office building (3,856 square feet) at 650 Brighton Avenue has been reviewed and a permit is herewith issued subject to the following requirement(s):

Site Plan Requirements

Public Works - All curb and sidewalks along Brighton Avenue shall be done in accordance with City standard & specifications. R. Roy 12/17/87

Planning Approved Maureen O'Meara 12/22/87 Inspection Approved Warren J. Turner 1/11/88

Building Code Requirements

- 1. The lot and all lot lines shall be clearly marked before calling for a foundation inspection.
- 2. This building must meet all * . I A 117.1 1986 standards (Providing accessibility and usability for physically handicapped people.
- 3. All concrete must be protected from freezing.
- 4. Section 25-135 of the Municipal Code for the City of Portland states: "No person or utility shall be granted a permit to excavate or open any street a sidewalk from the time of November 15 of each year to April 15 of the following year.

If you have any questions regarding these requirement(s), please do not hesitate to contact this office.

P. Samuel Horkses

Chief of Inspection Services

/el

CITY OF POOTLAND, MAINE Department of Parks and Public Works

SWEDGAN SITE DEVELOPMENT

GOSTO BRUNK OF IMPROVEMENTS TO BE COVERED BY PERFORMANCE GUARANTEE

Nai	DATE December 15, 1987 DATE December 15, 1987
Add	ress / Location 650 Brighton Avenue, Portland, Maine eloper The Six-Fifty Group
For	m of Performance Guarantee <u>Letter of Crelit</u>
Тур	pe of Development- Subdivision XX Site Plan(MAXXXXX Minor)
	ITEM . QUANTITY UNIT COST SUBTOTAL COMPLETED
1.	STREET/SIDEWALK: Road
	Granite Curbing 4 Four foot sections (16') @ \$93.75
	31 DEWRIKS /3. ASDNAIT SIGEWAIK @ \$5.35/SF 400.00
	Esplanades Monuments
	Street Lighting
	Uther 10 Removable wheel stops @ \$27.50 275.00
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۷.	SANITARY SEWER: Manholes One 4' diameter manhole and cover and cap @ \$1,475.00 1,475.00
	Piping 130' PVC 3" @ \$1.15/ft. 150.00
	Connections
	Other Gravel 200.00
	STORM DRAINAGE Manholes
-	Catch Basins 2 Type A catch basins w/cover, coating & boot @ \$700./ea. 1,400.00
	Piping 130' PVC 12" @ \$8.46/ft. 1,10(.00
	Detention Basin <u>Crushed stone</u> 400.00 Other
4.	SITE LIGHTING 2 12' pole mounted lights @ \$1,241.50 2,483.00
•	4 Building mounted lights @ \$250.00 1,000.00
5.	EROSION CONTROL 50 bales of hay and related retaining fencing 250.00
4.	RECREATION AND OPEN SPACE AMENITIES
7.	LANDSCAPING (Attach breakdown of plant materials, quantities, and unit costs) see attached 17,029.29
8.	MISCELLANEOUS Exterior sign 2,000.00
	Hydrant - Materials and related labor 1,800.00
ro	FAL AMOUNT OF PERFORMANCE GUARANTEE \$31,462:29 Approved
X	
	S Vu. V) rev. 9/15/8/
	- * * * * * * * * * * * * * * * * * * *

UREAN DEVELOPMENT
SECRETARIAL WORK SHEET

Original & File Copies

No. Xerox Copies

Rough Draft

Form Letter

Envelope (s)

Address Sticker(s)

Complete by (date & time) 22 Dec 87

If PRIORITY, please check

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CITY OF PORTLAND, MAINE SITE PLAN REVIEW

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SIGNATURE OF REVIEWING STAFF/DATE/
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SITE PLAN REVIEW

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eparate Sheet if Necessary)

Mauren O'Meara 12/32/87

SIGNATURE OF REVIEWING STAFF/DATE OF PLANNING DEPARTMENT COPY

CITY OF PORTLAND, MAINE SITE PLAN REVIEW

Processing Form

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BUILDING DEPARTMENT—ORIGINAL

CITY OF PORTLAND, MAINE



389 CONGRESS STREET PORTLAND MAINE 04101 (207) 775-5451

DEPARTMENT OF PLANNING & URBAN DEVELOPMENT

P. SAMUEL HOFFSES, CHIEF INSPECTION SERVICES DIVISION

December 22, 1987

The Six Fifty Group 638 Congress Street Portland, ME 04101

Re: 650 Brighton Avenue

Dear Sir:

Your application to construct foundation only for a 2 story professional office building has been reviewed and a ermit is herewith issued subject to the following requirements.

Site Plan Requirements

Public Works

Approved with condition

1. All curb and sidewalk work along Brighton Avenue shall be done in accordance with City standards and specifications.

Planning Department Building Inspections

Approved

R. J. Roy M. O'Meara

12/22/87

Approved

S. Hoffses

12/22/87

Building Code Requirements

1. All lot lines and the lot shall be clearly marked before calling for a foundation inspection.

2. All concrete shall be protected from freezing.

3. No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 or each each to April 15 of the following year.

If you have any questions regarding these requirements, please do not hesitate to contact this office.

Sincerely,

Chief, Inspection Services

/ksc

H. ALAN MOONEY AND ASSOCIATES

PROFESSIONAL ENGINEERS AND CONSULTANTS

November 9, 1987

Ms. Carmela Barton Arborist City of Portland Portland, ME 04101

Dear Carmela:

In regard to the site plan for the proposed building at 650 Brighton Avenue, you asked for the sizes of the plantings we propose for landscaping. We have talked with Rick Acker, our landscape consultant, and the following is what he is proposing to use:

Common Lilac	48"-60"
Bush Hydrangea	2 year old #1
Cotoneaster - Cranberry	24"-30"
Blue Rug Juniper	18"-24"
Perennials	6" pots
Mugo Pine	24"-30"
Clump of 3 Lilac	48"-60"
Winged Euonymous	24"-30"
Abbots Wood Potentilla	24"-30"
Green Wave Yew	18"-24"
Birdsnest Spruce	15"-18"
Crimson Pygmy	15"-18"
Gold Thread Cyprus	18"-24"
Poronni ala	6" nots

I hope this provides the additional information you needed. If you have further questions, you can contact me or Rick (926-3148).

Sincerely,

Alan J. Pethick

AJP/srr

Post Office 2014 10179, Portland, Maine 04104 (207) 775-1969

THE SIX FIFTY GROUP

Reply to: P.O. Box 10179 Portland, ME 04104

November 3, 1987

Doctors Park, Inc. 666 Brighton Avenue Portland, ME 04101 Attn: Dr. Leighton Philbrook

Dear Dr. Philbrook:

This letter will confirm our conversation regarding the plans of THE SIX FIFTY GROUP to build a professional office building at 650 Brighton Avenue. The site plan we have developed and an exterior elevation of the building are enclosed for your information.

We have taken every effort to design a building which meets our needs and complements your building and land. We are particularly conscious of creating a project which enhances the area.

In that regard, there are three aspects of construction that directly concern you and the purpose of this letter is to advise you of the same:

- 1) As site work will be undertaken right to the boundaries of your property, it is agreed that THE SIX FIFTY GROUP will restore all your landscaping and lawn area affected to its original condition. As part of the landscaping plan, the rows of bushes on the line near Brighton Avenue will be extended back along the property line to the vicinity of the new building.
- 2) It is agreed that all surface drainage and runoff developed on the 650 Brighton site will be controlled by on-site drains and appropriate grading of the parking area. By virtue of the site engineering plan, you therefore will not experience any change in runoff characteristics of your property.

In order to facilitate the approval process for this project, we would appreciate your signing the attached letter stating that you are aware of THE SIX FIFTY GROUP'S site plan and agree to the conditions as outlined. Please sign one copy and return to me.

Thank you for your cooperation.

Sincerely,

Alan J. Pethick, Partner

AJP'cap Enclosure Beceiati

NOV - 4 1987

DEPT OF BUILDING INSPECTIONS
CITY OF PORTLAND

City of Portland Portland, Maine

To whom it may concern:

As owner of 666 Brighton Avenue, which is adjacent to the proposed building at 650 Brighton Avenue, I understand the plans of the owners.

Further, I accept their commitment to provide for on-site drainage for runoff on their property in a manner which will not adversely affect my property.

Further, I agree to permit them to complete site work at the boundary of our properties recognizing their commitment to restore all landscaping to its original condition.

	Sincerely,	
Vitness	Doctors Park, Inc.	for

THE SIX FIFTY GROUP

Reply to: P.O. Box 10179 Portland, ME 04104

November 3, 1987

Brighton Avenue Associates c/o Liberty Group Attn: Mr. Willaim McCue 38 Preble Street Fortland, ME 041.04

Re: 640 Brighton Avenue, Portland

RECEIVED

DEPT. OF BUILDING INSPECTIONS CITY OF PORTLAND

Dear Mr. McCue:

MAKE A

This letter will confirm our conversation regarding the plans of THE SIX FIFTY GROUP to build a professional office building at 650 Brighton Avenue. The site plan we have developed and an exterior elevation of the building are enclosed for your information.

We have taken every effort to design a building which meets our needs and complements your building and land. We are particularly conscious of creating a project which enhances the area.

In that regard, there are three aspects of construction that directly concern you and the purpose of this letter is to advise you of the same:

- 1) As site work will be undertaken right to the boundaries of your property, it is agreed that THE SIX FIFTY GROUP will restore all your landscaping and lawn area affected to its original condition.
- 2) It is agreed that all surface drainage and runoff developed on the 650 Brighton site will be controlled by on-site drains and appropriate grading of the parking area. By virtue of the site engineering plan, you therefore will not experience any change in runoff characteristics of your property.
- Because of the site characteristics between 640 and 650 Brighton, it is the objective of THE SIX FIFTY GROUP'S site engineering plan to establish a more positive surface drainage pattern than now exists between these two properties. This will require some minor regrading of your property and removal of the existing, deteriorating stone wall. We will, of course, restore all site work and landscaping at our expense.

Brighton Avenue Associates Page #2 October 3, 1987

In order to facilitate the approval process for this project, we would appreciate you signing the attached letter stating that you are aware of THE SIX FIFTY GROUP'S site plan and agree to the conditions as outlined. Please sign one copy and return to me.

Thank you for your cooperacion.

Sincerel

Alan J. Pethick, Partner

AJP'cap

City of Portland Portland, Maine

To whom it may concern:

As owners of 640 Brighton Avenue, which is adjacent to the proposed building at 650 Brighton Avenue, . understand the plans of the owners.

Further, I accept their commitment to provide for on-site drainage for runoff on their property in a manner which will not adversely affect our property.

Further, I agree to permit them to complete site 'nork at the boundary of our properties recognizing their commitment to restore all landscaping to its original condition.

	Sincerely,	
Witness	Brighton Avenue Asssociates	for

DRAINAGE MAINTENANCE AGREEMENT

IN CONSIDERATION OF final approval granted by the Planning Board of the City of Portland to a plan entitled 650 Brighton Avenue Office Building, dated November 4, 1987 and filed with the City of Portland, Department of Planning and Urban Development, 389 Congress Street, Portland, Maine, * and pursuant to a condition thereof, The Six Fifty Group, a partnership with a place of business at 638 Congress Street, Portland, the owner of the subject premises, does hereby agree, for itself, its successors and assigns (the "Owner"), as follows:

That it will, at its own cost and expense and at all times in perpetuity, maintain in good repair and in proper working order the surface water drainage system as shown or said plan, including but not limited to the detention basin or basins and the outlet or outlets therefrom, for the benefit of the said City of Portland, all persons in lawful possession of said premises and abutters thereto; further, that the said City of Portland, said persons in lawful possession and said abutters, or any of them, may enforce this Agreement by an action at law or in equity in any court of competent jurisdiction; further, that after giving the Owner written notice and a reasonable time to perform, the said City of Portland may, by its authorized agents or representatives, enter upon said premises or any portion thereof for the purpose of performing the aforementioned maintennace of said surface water drainage system in the event of any failure or neglect thereof, the cost and expense thereof to be reimbursed in full to the said City of Portland by the Owner upon demand.

This Agreement shall not confer upon the said City of Portland or any other person the right to utilize said surface water drainage system for public use or for the development of any other property, and the Owner shall bear no financial responsibility by virtue of this Agreement for enlarging the capacity of said service water drainage system for any reason whatsoever.

This Agreement shall bind the undersigned only so long as it retains any interest in said premises, and shall run with the land and be binding upon its successors and assigns as their interests may from time to time appear.

Dated at Portland, Maine this 4th day of November, 1987.

STATE OF MAINE	دست الناب
CUMBERLAND, SS.	NOVEMBER 4, 1988
	Mr. J Podhick
Personally appeared the	e above-named HIGH J. 18 UIICE
	of The Six Fifty Grain acknowledged
the foregoing instrument to	o be his free ard and deed in his said capacity,
and the free act and deed	of said THE , X THEY CICKP.
Befor me,	amy & Im the
	Notary Public Attorney at law
	HTYM2 OL YMA
	Print name: NOTARY PUBLIC MAINE MY COMMISSION EXPIRES NOVEMBER 25, 1982
	mi outsissius expines november 25, 125;
approval, this clause shou	a condition of subdivision rather than site plan ld instead read "and recorded in the Cumberland n Plan Book, Page,".
Country Reiligary of Deeps 1	If Fidit book

PROFESSIONAL BUILDING 650 BRIGHTON AVENUE

MINOR DEVELOPMENT

Prepared for:

THE SIX FIFTY CROUP
C/O H. ALAN MYONEY & ASSOCIATES
638 CONGRESS STREET
PORTLAND, MAINE 04101

Prepared by:

H. ALAN MOONEY & ASSOCIATES P.O. BOX 10179 PORITAND, MAINE 04104

NOVEMBER 4, 1987

NOV - 4 1987

DEPT OF BUILDING INCRECTIONS OTTY OF PORTLA IN

C. - ANDRA

H. ALAN MOONEY AND ASSOCIATES

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Appendix B - Mediam Intensity Soil Survey	
Appendix C - Storm Water Runoff Calculations	
Amondia D - Proinage Management Agreement	

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INTROLUCTION

The report that follows is to provide the City of Portland with the necessary facts to evaluate the proposed office building project. The proposed project was developed in accordance with Portland zoning and site plan review ordinances and land subdivision ordinances.

DESCRIPTION

The Six Fifty Group, a Maine partnership, is proposing to build a professional office building on this site. One hundred percent (100%) of the building will be used as professional offices for professional engineering/consulting firms, medical offices; etc. The estimated cost of the project is \$600,000.

The office of The Six Fifty Group will be located at 650 Brighton Avenue. Until the proposed building is completed, those offices will be located c/o H. Alan Mooney and Associates, 638 Congress Avenue, Portland.

The proposed site consists of 23,255 square feet or 0.53 acres of land. The proposed building will have a total floor area of 9,950 quare The footprint of the building will be 3,856 square feet. The ground coverage of the proposed building and marking area relative to

UTILITIES AND ACCESS

The proposed building will be served lower water, sewer and gas, underground telephone and electric. All under Brighton Avenue which runs in front it the building. We have had icis ere available along or preliminary discussions with the appropriation (epresentatives of the various utilties. No problems are antici- 1. This project presents no unusual traffic concerns, as the parking at a fronts on Brighton Avenue, a major Portland arterial.

SOLID WASTE REMOVAL

All solid waste will be accumulated within a trash room located in the building and regularly removed by private contractors.

EASEMENTS

There are no existing or proposed easements or other burdens now existing to be placed on the property.

STORM WATER MANAGEMENT

A STATE OF THE PARTY OF THE PAR

The proposed office building development, located at 650 Prighton Avenue in Portland, Maine, is currently a residential property. The water shed in this area is defined by the existing Brighton Avenue and Machigonne Street storm water sewers on the northerly and easterly boundaries. The topography of the area determines the westerly and southerly water shed boundaries and creates natural drainage into the Capisic Pond, as indicated on the pre-development water shed map (see Appendix A). The post development water shed is unchanged by the proposed development (see Appendix A).

The proposed property is not within the flood plain per the Portland Flood Insurance Rate map.

The existing vegetation in the water shed, as indicated on the pre-development water shed map, is brush and typical residential lawn. The proposed development will decrease the lawn area within the proposed property, as indicated on the post development water shed map.

The soils on the property are entirely Buxton silt loam, as indicated on the medium intensity soil survey provided (see Appendix B). A description of this soil survey is also attached for your information.

The storm water runoff calculations were performed using the SCS TR-55 "Urban Hydrology For Small Water Sheds" method. The calculations utilized the two-year and twenty-five year frequency design storms. The calculations are provided in Appendix C. The following are the pre and post development discharges determined:

Pre-development

Q2 year = 5.39 cfs Q25 year = 15.72 cfs

Post development

Q2 year = 5,84 cfs Q25 year = 16.16 cfs

The post development runoff increase is .45 cfs and .44 cfs for the two year and twenty five frequency storm, respectively.

In leiu of an hydraulic analysis, as these .45 and .44 cfs increases are insignificanc in comparison with the contributions of all water sheds ultimately contributing to Capisic Pond, a visual analysis of the site conditions and the natural swale leading to Capisic Pond was performed. The property is approximately 340' from the pond and a clear gravity flow with ro evident restrictions is apparent. This indicates no adverse

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effect will occur on downstream areas. There are no existing culverts, drain pipes or catch basins within this natural flow path.

The cn-site storm water management plan will utilize this existing natural drainage pattern. The parking area is divided in half with the storm water runoff of each area being directed to a catch basin. The catch basins and associated drainage pipe then directs the runoff to the existing natural swale. The outlet will be imprapped, as included on the site plan to stabilize this existing drainage area.

The catch basins were designed to adequately handle the storm water runoff from a twent, five year, twenty-four hour storm. The catch basins to be installed will be Maine Type A Labaron Number LK123 or equivalent.

The standard drainage mainterince agreement, for management of these privately owned facilities, is attached (Appendix D).

ERCSION CONTROL

Erosion and sedimentation control will be achieved by attlizing existing drainage patterns as much as possible, minimizing the clearing required and reseeding any disturbed creas.

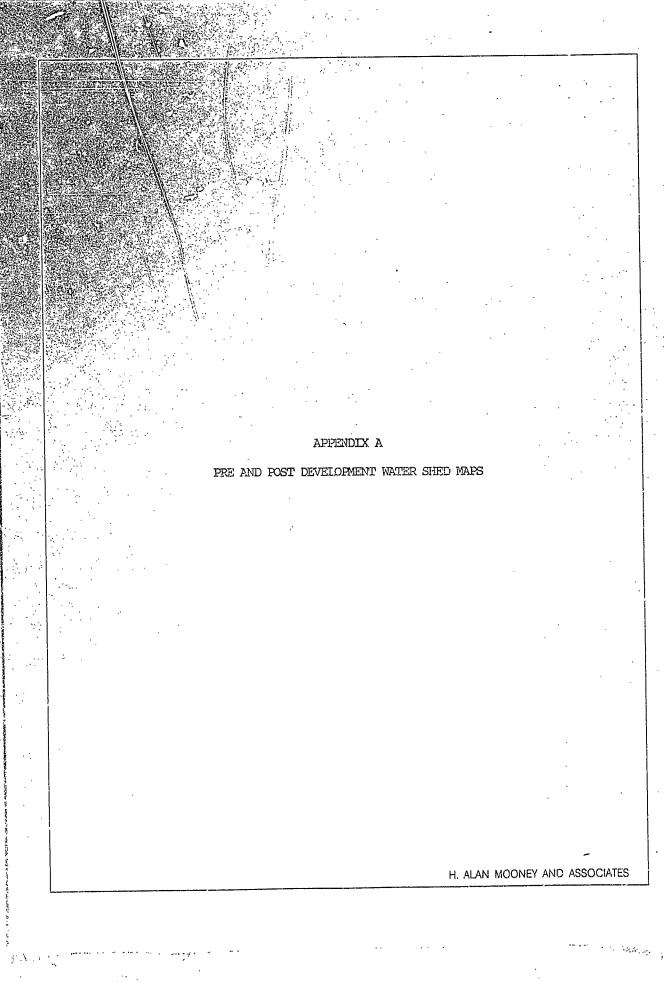
The storm water drain outlet will be riprapped as shown on the site plan to stabilize the existing natura drainage.

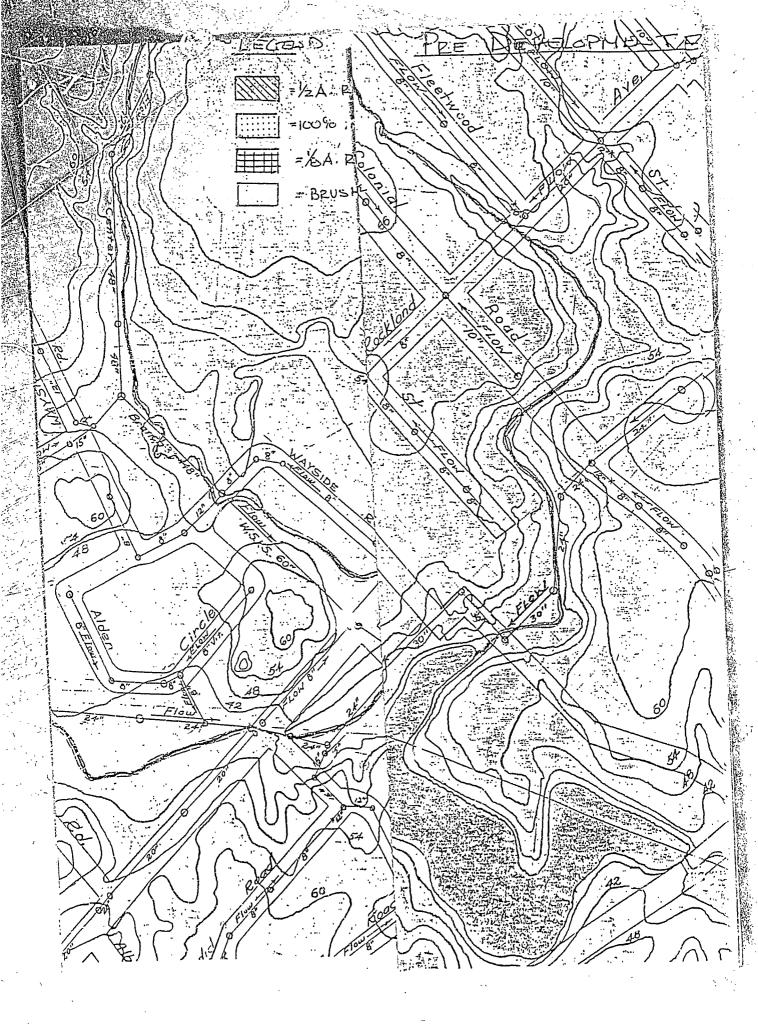
At the time of any clearing, it is tall bearriers will be installed at the downslops perimeter at a distance that will allow excavation and on-site movement.

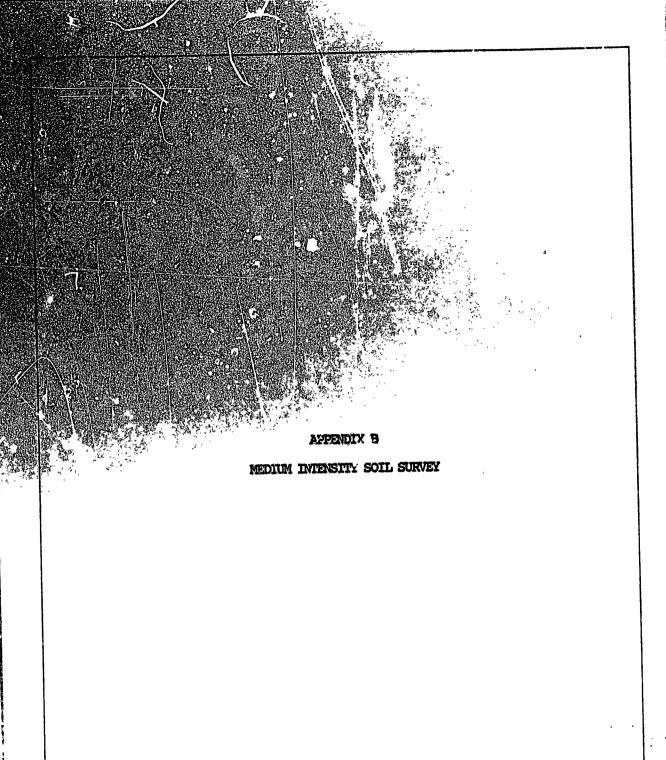
As winter construction is anticipated, special winter erosion control will be provided. Any areas finished prior to the spring seeding will be mulched with sprayed hav to provide winter erosion protection.

Periodic inspections, with site engineer, will be made to ensure that both temporary and permanent soil conservation techniques and procedures are being iffectively utilized.

The developer will guarantee the establishment of all seeded areas.







H ALAN MOONEY AND ASSOCIATES

clay. Reaction in ?' mildly alkaline. B3g horizon ranges from neutral to

In the Cg horizon hue is 5Y, 5BG, 5G, or 5B; value is 4 or 5; and chroma is 1 or less. The Cg horizon ranges from silty clay loam to clay. In this horizon structure ranges from massive to weak, medium, platy that generally breaks into weak and very weak, very line, blocky. The ziottles range from common to many, fine to and distinct to prominent. This horizon ranges from neutral to mildly alkaline in reaction.

Associated with Biddeford soils in the Indiscape are Buxton, Scantic, and Suffield soils. Biddeford soils are similar to these soils, but Suffold soils are well drained. Buxton soils are moderately well draines, and Scantic soils are poorly

Biddeford silt leam (Bo).—This is the only Biddeford soil mapped in the county. It is in depressional areas adjacent to or surrounded by Scantic soils and in drainageways near steeper soils that are better drained. Runoff is very slow or ponded and permeability is very slow. Included in mapping are small areas of poorly drained Scantic soils and areas of soils that are sandy throughout.

This soil is too wet for most kinds of farming, but it is suitable for use as pasture if water-tolerant plants are grown. It is not suitable for the production of timber for commercial purposes. Limitations are severe on this soil for community and recreational uses because of wetness and a high water table. This soil is suitable for ponds and shallow-water impoundments for waterfowl and for use as habitat for ot er wildlife. Capability unit VIw-7; woodland group not suited to growing trees for commercial purposes; wildlife group 4.

Buxton Series

The Buxton series consists of deep, moderately well drained to somewhat poorly drained, gently sloping to moderately sloping, medium-textured soils. These soils formed in silty and clayey marine lacustrine sediment in the central lowland and coastal areas of the county. They

are on terraces and plains.

A representative profile of a Buxton soil in a cultivated area has a layer of dark-brown silt loam, 9 inches thick, that overlies a layer of yellowish-brown, friable silt loam. The next 4 inches is light olive-gray, friable silty clay loam. Below this is 22 inches of olive-gray to gray, firm silty clay that has gray, olive, olive-brown, and light olivebrown mottles. The underlying material, at a depth of 38 inches, is olive-gray silty clay that has a few light olivebrown mottles.

The water table is at a depth of 1 to 21/2 feet in spring and during periods of heavy precipitation. Depth to bedrock is 5 feet or more. These soils have high available rater capacity. Permeability is moderately slow to slow above the fine-textured layer and slow to very slow within

Most of the acreage of Buxton soils is used for farming, but many areas a: wooded. Common species are white pine, yellow birch, gray birch, ground juniper, and

Representative profile of Buxton silt loam, 3 to 8 percent slopes, 2.75 miles south-southeast of North Scarboro on macadam road connecting Holmes Road with Beech Ridge Road, 80 feet to 45° cast azimuth from N.E.T.&T. Co. pole #8, 70 feet from center of road in Scarboro Township:

Ap-0 to 9 inches, dark-brown (10YR 4/3) slit loam; moderate, fine, granular structure; friable when moist; common roots; strongly acid; abrupt, smooth bound-

B2-9 t 12 inches, yellowish-brown (10YR 5/6) silt loam; moderate, fine, granular structure; friable when moist: common roots; strongly acid; abrupt, smooth

1'2-12 to 16 inches, light clive-gray (5Y 6/2) silty clay loun; moderate, fine, subangular blocky structure friable when moist; some tonguing; medium acid;

abrupt, wavy boundary.

B'21-16 to 21 inches, olive-gray (51 5/2) slity clay; a few, fine, faint, gray (57 5/1) and olive (57 5/6) mottles; moderate, medium, blacky structure; slightly firm; tops of prisms in this horizon; a few fine manifold of the control of the contr gauese stains on peds; medium acid; clear, smooth boundary.

B'22-21 to 28 inches, o.ve (5Y 4/3) silty clay; common, fine, distinct, olive-brown (25Y 4/4) and gray (5Y 5/1) mottles; moderate to strong, coarse, prismatic structure that parts to moderate, medium and coarse, subangular blocky structure; firm when moist, very sticky when wet; thick, continuous, olive-gray (5Y 5/2) coating on prism faces; a few, thin, black man-ganese coats on faces of peds; slightly acid; gradual, smooth boundary.

B'3-28 to 38 inches, olive (5Y 4/3) silty clay; common, fine, distinct, light olive-brown (2.5Y 5/6) mottles; moderate to strong, very coarse, prismatic structure; firm when moist, very sticky when wet; thick, continuous, gray (5Y 5/1) coatings on prism faces; a few, thin, black manganese films on faces of peds; slightly acid;

abrupt, smooth boundary

C-38 to 60 inches, olive-gray (FY 4/2) silty clay; a few, fine, distinct, light olive-brown (2.5Y 5/6) mottles; weak, coarse, blocky structure becoming massive in lower part; firm when moist, very sticky when wet; thick, continuous, gray (5Y 5/1) films on ped faces and in some pores; some, thin, very dusky red (2.5\text{TR } 2/2) manganese coats; slightly acid to neutral.

The solum ranges from 24 to 50 inches in thickness. Depth to mottling ranges from 15 to 24 inches. The solum ranges from very strongly acid to neutral in reaction, and the C horizon ranges from slightly acid to neutral in reaction.

Associated with Buxton soils in the landscape are Hartland, Elmwood, Melrose, Suffield, Scantic, Biddeford, and Hollis soils. Buxton soils are similar to these soils, but Hartland and Suffield soils are well drained, Scantic soils are poorly drained, and Biddeford soils are very poorly drained. The subsoil of Buxton soil is finer textured than that of Hartland soils. Also, Hollis soils are shallow and Melrose and Elmwood soils are fine sandy loam over silty clay.

Buxton silt loam, 3 to 8 percent slopes (BuB).—This soil has the profile described as representative of the series. It is on terraces adjacent to natural drainageways, streams and rivers, and or plains. Included in may ping are small areas of a soil that has a few large stones or boulders on the surface and areas of a soil that has a thinner surface layer. Also included are small areas of

Hartland, Hollis, Scantic, and Suffield soils.

This soil is likely to become cloddy if cultivated when wet, and it 's very hard when dry. During periods of heavy rainfall, this soil is subject to ponding in places. This Buxton soil can be used for hay, pasture, row crops, or woodland. White pines and white spruce are suitable for planting. Limitations are severe on this soil for community and recreational uses because of a seasonal high water table, sessonal wetness, and slow to very slow permeability. Capability unit IIw-7; woodland group 401: wildlife group 2.

Buxton silt loam, 8 to 15 percent slopes, evoded (BuC2).—This soil is on the sides of terraces adjacent of APPENDIX C STORM WATER RUNOFF CALCULATIONS

H. ALAN MOONEY AND ASSOCIATES

Worksheet 2: Runoff curve number and runoff

Project 650	o brighton	By. DV Date 10-79-6						
Location PT	LD		•		-			
Circle one: P	resent Developed		J., C.			Date		
1. Runoff cur	ve number (CN)						· ************************************	
Soil name	. Cover description			CN 1	/	Area	.3roduct	
hydrologic group	(cover type, treatment, and hydrologic condition;	ı	2-2				of CN x area	
(appendix A)	percent impervious; unconnected/connected impervious area ratio)		Table 2	F1g. 2-3	Fig. 2-4	Macres Omi ² O%		
BUXTON SILT LOAM C BUXTON	BRUSH		77			1.97	151.69	
SILT LOAM/C	LACRA RASIDANTIAL	1	Q			1.45	116	
SILT LOAM C	POACRE RUSINGITIAL	o	10			.26	23,4	
SILTIGAMIC	2001/929MI 6POOL	4	8			2,00	196.0	
				•				
	CN source per line.		tal	s =		5.68	487.09	
CN (weighted) =	total product 49.7.09 85.7	Us	e C	N =	8	6		
2. Runoff	ſ							
		Sto	Em i	<i>‡</i> 1	Sto	rm #2	Storm #3	
	yr		2		2	5		
	hour)in	2	را ,			,4		
Runoff, Q (Use P and CN or eqs. 2-3 and	with table 2-1, fig. 2-1, d 2-4.)		.3	2	3	.84		

Workshert 3: Time of concentration (T_c) or travel time (T_t)

Project 650 GHTON	By <u>DV</u>	Date 10-29-87
Location PTLC	Checked	
Circle one: Present) Developed		
Circle one: Tc Tc through subarea		
NOTES: Space for as rany as two segments per flow worksheet.	type can be us	ed for each
faclude schematic, or description of	of flow segments	•.
Sheet flow (Aprile te to 7c only) Segment	: ID A-B	
1. Surface asscription (table 3-1)	. GRASS	,
2. Manning's roughness coeff., n (table 3-1)	. 24	
3, Flow length, L (total L \leq 300 ft)	ft 200'	
4. Two-yr 24-hr rainfall, F ₂	in 2.6	
5. Land slope, s	ft/ft .03	•
6. $T_t = \frac{0.007 (nL)^{0.8}}{P_2^{0.5} s^{0.4}}$ Compute T_t	hr .391	391
Shallow concentrated flow Segment	ID BC	CD
7. Surface description (paved or unpaved)	UNPAVOD	
8. Flow length, L	ft 200'	350'
9. Watercourse slope, s		.026
10. Average velocity, V (figure 3-1)		2,6
11. $T_{t} = \frac{L}{3600 \text{ V}}$ Compute T_{t}		
Cinnel flow ' Segment	ID	
12. Cross sectional flow area, a	ft ²	
13. Wetted perimeter, Pw	ft	
14. Hydraulic radius, $r = \frac{a}{p_w}$ Compute r		
15. Channel slope, s		
16. Manning's roughness coeff		
17. $V = \frac{1.49 \text{ r}^{2/3} \text{ s}^{1/2}}{n}$ Compute V	ft/s	
18. Flow length, L	ft	
19. $T_c = \frac{L}{3600 \text{ V}}$ Compute T_c	hr	
20. Watershed or subares To or Tt (add Tt in steps	6, 11, and 19)	hr ,442

	reser			Loc							
Changes	,				-						
Subarea nome	Drainage area	Time of concen- tration	Travel time through subarea	Downstream subarea names	Travel time summation to outles	24-hr Rain- fall	Runoff curve number	Run- off		Initial abstrac- tion	
	A _m	T _c	T _t		ΣΤ _t	P	CN	Q	A _m Q	I _a	I _a /I'
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From worksheet 2

From table 5-1

From worksheet 3

Worksheet 5b: Tabular hydrograph discharge summary

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; :	Basi	c waters	hed dat	a used 1/		Select and enter hydrograph times in hours from exhibit 5-1112/											
Subarea name	Sub- area	ET _t	I _a /P	A _m Q			12,4	125	12,6								
L-	T (hr)	outlet (hr)		(mi ² -in)	Discharges at selected hydrograph times 3/												
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Composite	hydro	graph at	outlet				L	5,39					<u> </u>	<u> </u>			

Horksheet 5a. Rounded as needed for use with exhibit 5.

Enter rainfall distribution type used.

Hydrograph discharge for selected times is A Q multiplied by tabular discharge from appropriate exhibit 5.

Worksheet 5a: Basic watershed data

Project	650	ELIGHTO	<u>) </u>	Location _	FTLD			Ву	DV	Date <u>10-30-</u> 8	37
Circle	one: Presen	t Developed		· · · · · · · · · · · · · · · · · · ·	Frequency	(yr)	25	Checked		Date	

Subarea name	Drainage area	Time of concen- tration	Travel time through subarea	Downstream subarea names	Travel time summation to outlet	24-nr Rain- fall	Runofr curve number	Run- of E		Initial abstrac- tion	
	A _m	T _c	T _t		ΣΤ _t	P	CN	Q	A _m Q	I _a	I _a /P
	(mi ²)	(hr)	(hr)		(hr)	(in)		(in)	(mi. ² -in)	(in)	
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From worksheet 3

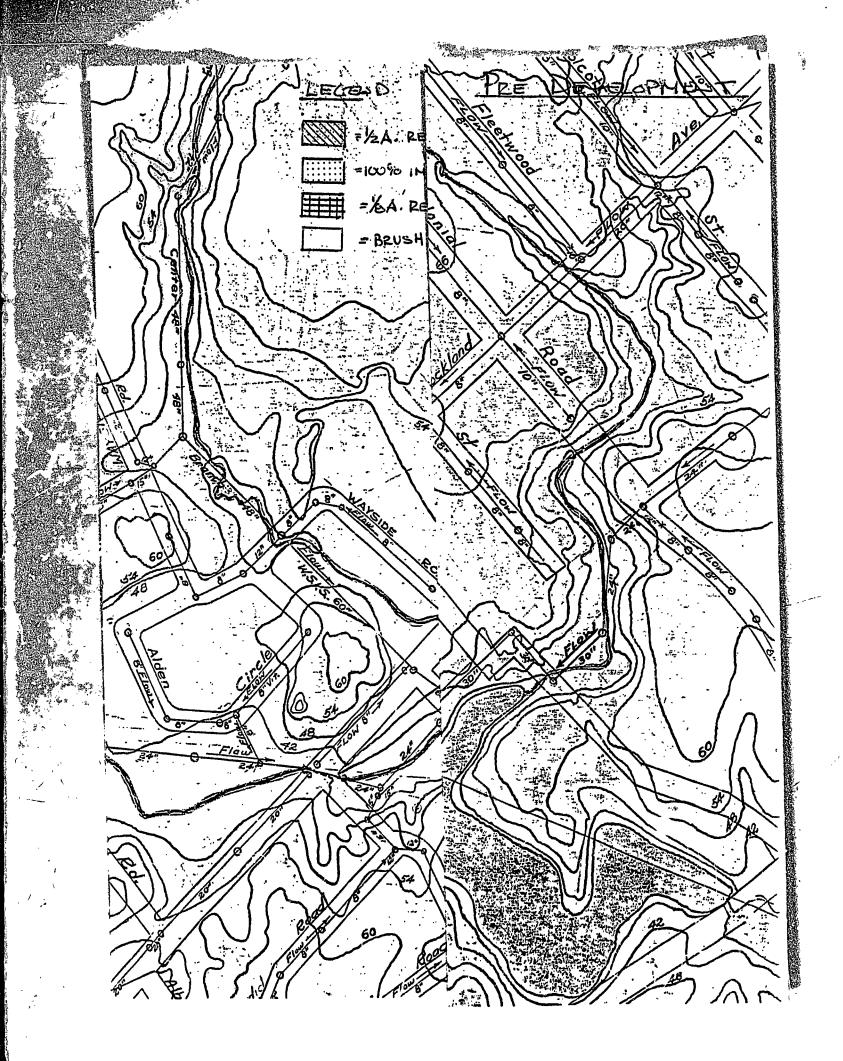
From worksheet 2

From table 5-1

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Worksheet 5s. Rounded as needed for use with exhibit 5.
Enter rainfall distribution type used.
Hydrograph discharge for selected times is A Q multiplied by tabular discharge from appropriate exhibit 5.



Worksheet 2: Runoff curve number and runoff

Project 650 BAIGHTON	ву 10 V	Date 10-29-87
Location DTLD	Checked	Date
Circle one: Present Developed		

1 Runoff curve number (CN)

Soil name and hydrologic group (appendix A)	Cover description (cover type, treatment, and hydrologic condition; percent impervious; unconnected/connected impervious area ratio)	ment, and continuity of the co			Area Dacres Dmi ²	Product of CN x area
BUXTON SILTLOAMIC BUXTON SILTLOAMIC	BRUSH	77			1.9%	150.92
BUXTON) SILT LAM C BUXTON	E ACRO PASICOUTAL	70			.94 .26	·75.20 23.40
SIET LOAM C BUXTON	10090 IMPLRVIOUS	98			2.40	235.2
SILT LOPINIC	LAWN	74	•		02	6.88
1/			CONTACT OF THE PARTY OF THE PAR			

1/	Use	only	one	CN	gource	per	line.
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·		43	1 17 181
Totals	•	5.68	493.60

2. Runoff

Frequency	yr
Rainfall, P (24-hour)	in
Runoff, Q	in

Storm #1	Storm #2	Storm #3
2	25	
26	5,4	
1.40	3,95	

Worksheet 3: Time of concentration (T_c) or travel time (T_t)

Project 600 BRIGHTON	By DV	Date 10-29-87
Location PTLO	Checked	
Circle one: Present Developed		
Circle one: Tc Tt through subarea		
NOTES: Space for as many as two segments per flow worksheet.	type can be use	ed for each
Include a map, schematic, or description of	of flow segments.	•
Sheet flow (Applicable to T _c only) Segment	ID AB	
1. Surface description (Lable 3-1)	1	
2. Manning's roughness coeff., n (table 3-1)	124	
3. Flow length, L (total L \leq 300 ft)	ft 200'	
4. Two-yr 24-hr rainfall, P2	in 2,6	
5. Land slope, s	et/ft 103	
6. $T_t = \frac{0.007 (nL)^{0.8}}{P_2^{0.5} s^{0.4}}$ Compute T_t		- 391
Shallow concentrated flow Segment	ID RC	20
7. Surface description (paved or unpaved)		ANAANU
8. Flow length, L	ft 200	350
9. Watercourse slope, s		,026
10. Average velocity, V (figure 3-1)		
11. $T_t = \frac{L}{3600 \text{ V}}$ Compute T_t		2.6
Channel flow Segment	m	
12. Cross sectional flow area, a	ft ²	
13. Wetted perimeter, p.		
14. Hydraulic radius, $r = \frac{a}{p_y}$ Compute r	ft	
IS. Gaannel slope, s	16	
16. Manning's roughness coeff. n	-/16	•
17. $v = \frac{1.49 \text{ m}^{2/3} \text{ s}^{1/2}}{n}$ Compute V	60/0	
18. Flow length, L	ft	·
19. T _E = L/3600 V Corpute T _E	hr +	
20. Watershed or substea Tc or Tt (add Tt in steps		1 1 1

Worksheet 5a: Basic watershed data

	11100	001511	T 0 1	* 0.0	ation .				EV DIV	Date 1	13/18		
M. Maria	e: Presen			Loca	Frequency (yr) Z Checked Date								
Subarea name	Drainage area	Time of concentration	Travel time through subarea	Downstream subarea names	Travel time summation to outlet	24-hr Rain- fall	Runoff curve number	Run- off		Initial abstrac- tion	,		
	A _m	T _e	T _t		ΣΤ _t	P	CN	Q	A _m Q	I _a	I _a /P		
	(mi ²)	(hr)	(hr)	ļ	(hr)	(in)		(in)	(m1 ² -in)	(in)			
PTI	.009	.447.	0			2,6	87.	1,40	.013	,299	<u> 15 إد</u>		
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From table 5-1

From worksheet 2

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Project 660 BRIG 11700	
Project 660 BRIGHTON Location PTLL Circle one: Present Developed	· ·
By LV	Date 10/3/87
Basic watershed data used 1/ Select and Subarea Subarea Sub- ET 1/P Select and	
area to and enter hydrograph times in home	2/
(hr) (hr) (2 12.4 12.5 12.6 1	-111 -21

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	,							Frequency	(um)	Ву .		Date	10/3/87
	Subarea	Sub- E	tershed d	ata used 1/		_		Frequency	(yr)	Che	cked	_	1 /
	name	Sub- En	't 1./	P A Q		Select an	enter hyd	COprach At					
	: 1	T _c out	let	"	1	1	124	rograph time	s In hon	rs from ex	hibir 5mi	2/	
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. 3/ H	ydrograph	discharda	ibut lop ty	led for use	ntth axh	lble 5.	5,8					_	
	•	コエスをはは、最后	TOP Balan	1 , 307 844		-							

Hotksheet 5a. Rounded as needed for use with exhibit 5. Enter rainfail distribution type used. Bydrograph discharge from appropriate exhibit 5.

Worksheet 5a: Basic watershed data

	<u>650</u> e: Presen			Loca	ition Pr	<u>LD</u> requency	(yr) <u>Z</u>	S Che	F.y	Date <u>18</u>	 33/3
Sujare.	Drainage area	Time of concentration	Travel time through subarea	Downstream subaren names	Travel time summation to outlet	24-hr Rain- fall	Runoff curve number	Run- off		Init(al abstrac- tion	
	A _m	T _c	T,		ΣΤ _t	P	CN	Q	A _m Q	I _a	I _a /P
	(mi ²)	(hr)	(hr)		(hr)	(in)		(in)	(mi ² -in)	(in)	
PT.I	.009	,442	0		_	5,4	87	3.95	,036	.299	256
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From table 5-1

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Worksheet 5b: Tabular hydrograph discharge summary

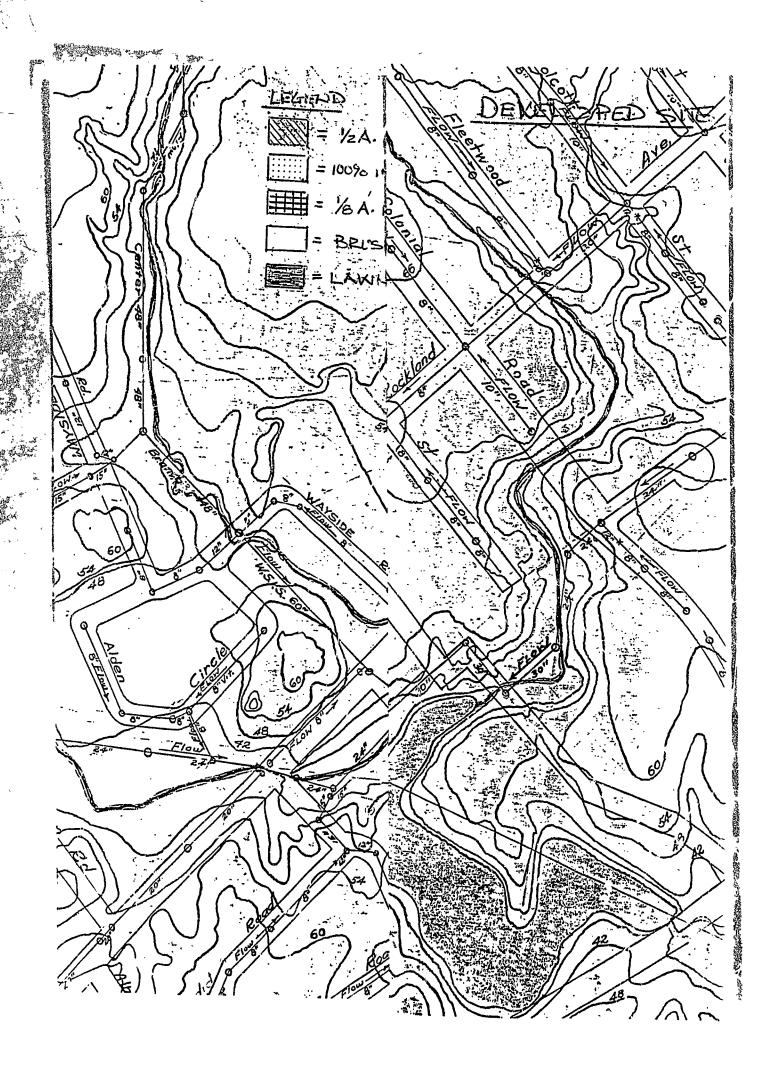
Project _	105	0 6	RIE	5HT0							Ву	<u> </u>		Date 10	<u> 37 97</u>		
Circle or	ne: Pa	esent (1)	evelope		 .,			Frequ	enc [,] (y	r) <u>2</u> 4	≤ Ch	ecked _		Date			
(VE)	Basic watershed data used 1/			Select and enter hydrograph times in hours from exhibit 5-1112/								/	 1				
Subarea name	area	to	I _a /P	A _m Q			12,4	125	12,6								
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Stage Park Stage	L																
					 												
					 												
	, 				 												
Composite	hydro	eran'i at	outlet		 			1/									

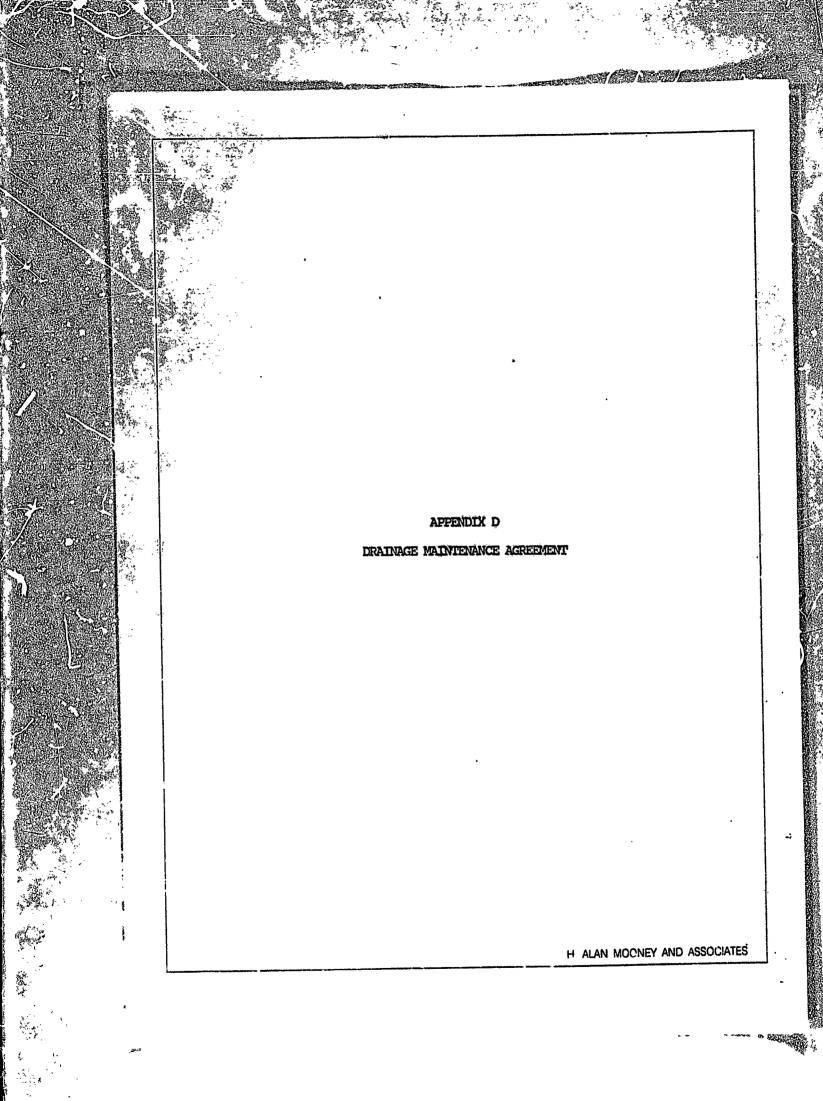
 $\frac{2}{3}$, Enter rainfall distribution type used.

(210 VI-TR-55 Second Ed., June 1986)

 $[\]frac{1}{2}$. Worksheet Sa. Row ded as needed for use with exhibit 5.

^{3/} Hydrograph discharge for selected times is A Q multiplied by tabular discharge from appropriate exhibit 5.





DRAINAGE MAINTENANCE AGREEMENT

IN CONSIDERATION OF final approval granted by the Planning Board of the City of Portland to a plan entitled 650 Brighton Avenue Office Building, dated November 4, 1987 and filed with the City of Portland, Department of Planning and Urban Development, 389 Congress Street, Portland, Maine, * and pursuart to a condition thereof, The Six Fifty Group, a partnership with a place of business at 638 Congress Street, Portland, the owner of the subject premises, does herery agree, for itself, its successors and assigns (the "Owner"), as follows:

That it will, at its own cost and expense and at all times in perpetuity, maintain in good repair and in proper working order the surface water drainage system as shown on said plan, including but not limited to the detention basin or basins and the outlet or outlets therefrom, for the benefit of the said City of Portland. all persons in lawful possession of said premises and abutters therefor; further, that the said City of Portland, said persons in lawful possession and said abutters, or any of them, may enforce this Agreement by an action at law or in equity in any court of competent jurisdiction; further, that after giving the Owner written notice and a reasonable time to perform, the said City of Portland may, by its authorized agents or representatives, enter upon said premises or any portion thereof for the purpose of performing the aforementioned maintennace of said surface water drainage system in the event of any failure or neglect thereof, the cost and expense thereof to be reimbursed in full to the said City of Portland by the Owner upon demand.

This Agreement shall not confer upon the said City of Portland or any other person the right to utilize said surface water drainage system for public use or for the development of any other property, and the Owner shall bear no financial responsibility by virtue of this Agreement for enlarging the capacity of said service water drainage system for any reason whatsoever.

This Agreement shall bind the undersigned only so long as it retains any interest in said premises, and shall run with the land and be binding upon its successors and assigns as their interests may from time to time appear.

Dated at Portland, Maine this 4th day of November, 1987.

STATE OF MAINE	
CUMBERLAND, ss.	MOVEMBET 4, 1987
Personally appeared the	
the foregoing instrument to	THE DIKE THE COOLD and acknowledged
and the free act and deed of	be his free act and deed in his said capacity, said the Six first oroup
Sefor me,	and a long that
	MING PRINCHIN.
	Notary Public Attorney at law
	AMY JO SMYTH
	Princ name: NOTARY PUBLIC, MAINE MY COMMISSION EXPIRES NOVEMBER 25, 1962
* Where this Agreement is a approval, this clause should County Registry of Deeds in	condition of subdivision rather than site plan instead read "and recorded in the Cumberland Plan Book, Page ""