

Mr. Terence McGean

September 15, 2008

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Martin O'Malley
Governor

Anthony G. Brown
Lt. Governor



Margaret G. McHale
Chair

Ren Serey
Executive Director

STATE OF MARYLAND
CRITICAL AREA COMMISSION
CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401
(410) 260-3460 Fax: (410) 974-5338
www.dnr.state.md.us/criticalarea/

September 15, 2008

Mr. Terence McGean
Town of Ocean City
Engineering Department
PO Box 158
Ocean City, MD 21843

Re: Bayside Park Project
Consistency Report

Dear Mr. McGean:

Thank you for forwarding the above-referenced project to this office per the requirements of COMAR 27.02.02 - State and Local Agency Actions Resulting in Development of Local Significance on Private Lands or Lands Owned by Local Jurisdictions. The Town of Ocean City proposes to renovate and upgrade an existing City park located between 3rd and 4th Street. The parcel is 4.4 acres in size and partially located within a Buffer Management Area. The proposed redevelopment across the entire site will reduce impervious surface from 61,279 square feet to 48,932 square feet. Within the 100-foot Buffer, impervious surface will be reduced from 12,664 square feet to 1,363 square feet.

After reviewing the consistency report, and the accompanying Critical Area report, this office agrees that the project is generally consistent with the Town of Ocean City's Critical Area Program for the reasons outlined below:

1. The park will provide water access for recreational activities like fishing for the residents of Ocean City.
2. The proposed activity within the Buffer Management Area (BMA) meets the requirements of the Town's Critical Area Program.
3. The Town will meet the 10% pollutant reduction requirement by reducing impervious surface onsite by 8% and by installing a bioretention facility.

TTY for the Deaf

Annapolis: (410) 974-2609 D.C. Metro: (301) 586-0450

Mr. Terence McGean
September 15, 2008
Page 2 of 2

4. The Town is exceeding the mitigation requirement per the Town's Critical Area Program and providing 45,749 square feet of plantings.
5. No other Habitat Protection Areas will be impacted.

Thank you again for your cooperation and assistance with reviewing this project. If you have any questions, please telephone me at (410) 260-3475.

Sincerely,

A handwritten signature in cursive script that reads "Kate Schmidt". The signature is written in dark ink and is positioned above the typed name and title.

Kate Schmidt
Regional Program Chief

Cc: OC420-08



TOWN OF
OCEAN CITY

The White Marlin Capital of the World

420-08

July 9, 2008

RE: Bayside Park Redevelopment

Mr. Ren Serey
Executive Director
Maryland Critical Area Commission
1804 West St.
Suite 100
Annapolis, MD 21401

MAYOR & CITY COUNCIL
P.O. BOX 158
OCEAN CITY,
MARYLAND 21843-0158

www.town.ocean-city.md.us

MAYOR
RICHARD W. MEEHAN

CITY COUNCIL MEMBERS

JOSEPH M. MITRECIC
President

NANCY L. HOWARD
Secretary

JAMES S. HALL
JAMES W. HANCOCK, III
MARY P. KNIGHT
LLOYD MARTIN
MARGARET PILLAS

Dear Mr. Serey:

The Town of Ocean City is currently in the process of re-developing an existing city park. The park, locally known as Bayside Park, is located in Downtown Ocean City. It is bordered on the North by 4th Street, on the South by 3rd Street, on the East by Philadelphia Ave and on the West by Assawoman Bay. The total project site is approximately 4.5 acres. The site currently consists of baseball, and soccer fields, play grounds, basketball courts, and a skate park. The proposed site will reconstruct the soccer fields and basketball courts, enlarge the skate park, add bocce ball courts, two pavilion type structures, and a jogging path. The project will also close a local street that runs directly adjacent to the bay and replace it with landscaping.

DENNIS W. DARE
City Manager

CAROL L. JACOBS
City Clerk

Enclosed please find a copy of the site plan, Critical Areas application, storm-water management and pollutant removal report, and copy of a letter to DNR regarding habitat protection areas. Please review and offer any comments regarding this project at your earliest convenience. If you have any questions, please feel free to contact me anytime.

Sincerely,

Terence J. McGean, P.E.
City Engineer
(410) 289-8796

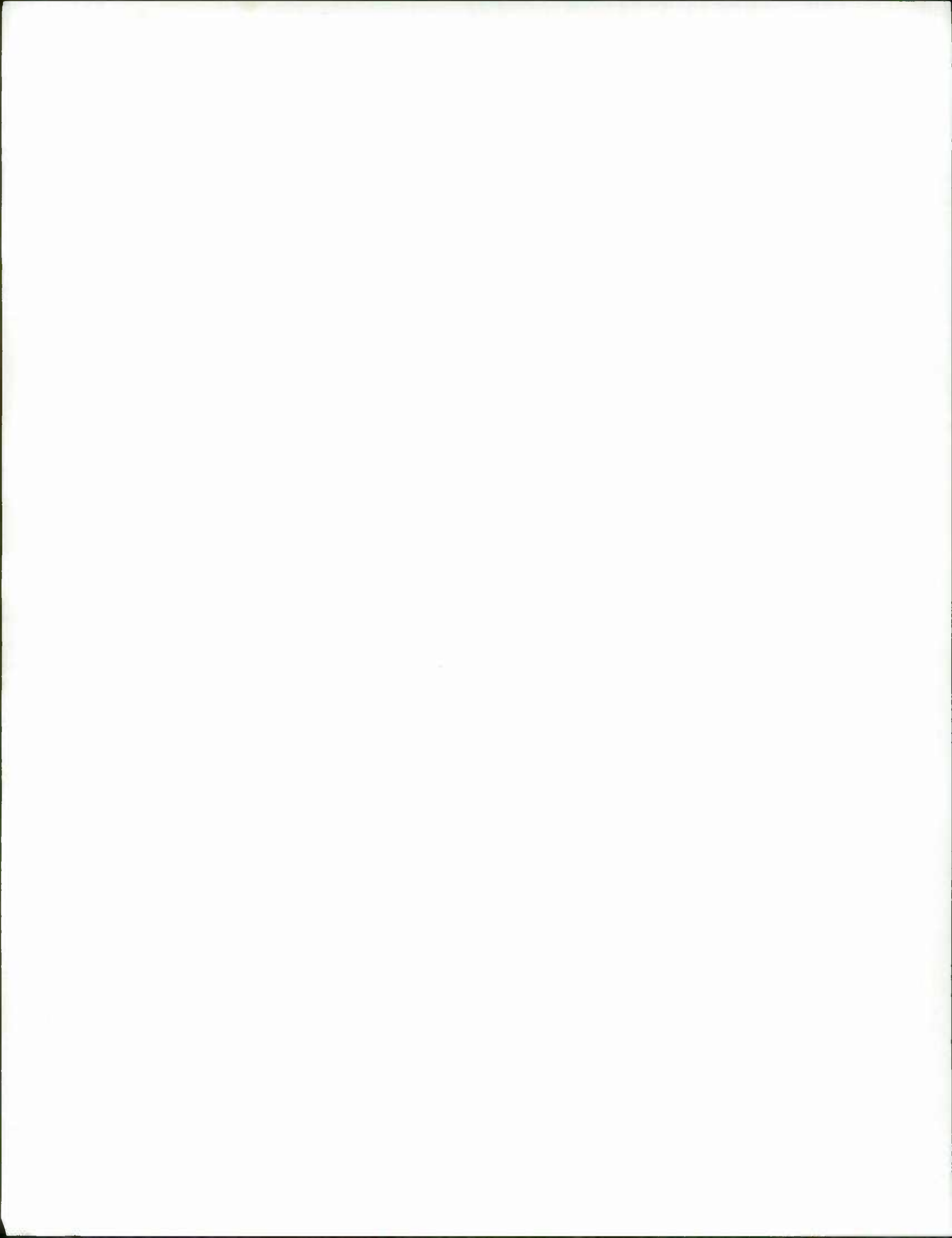
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JUL 11 2008

CRITICAL AREA COMMISSION

Ocean City, MD






Consistency Report for Local Government Projects

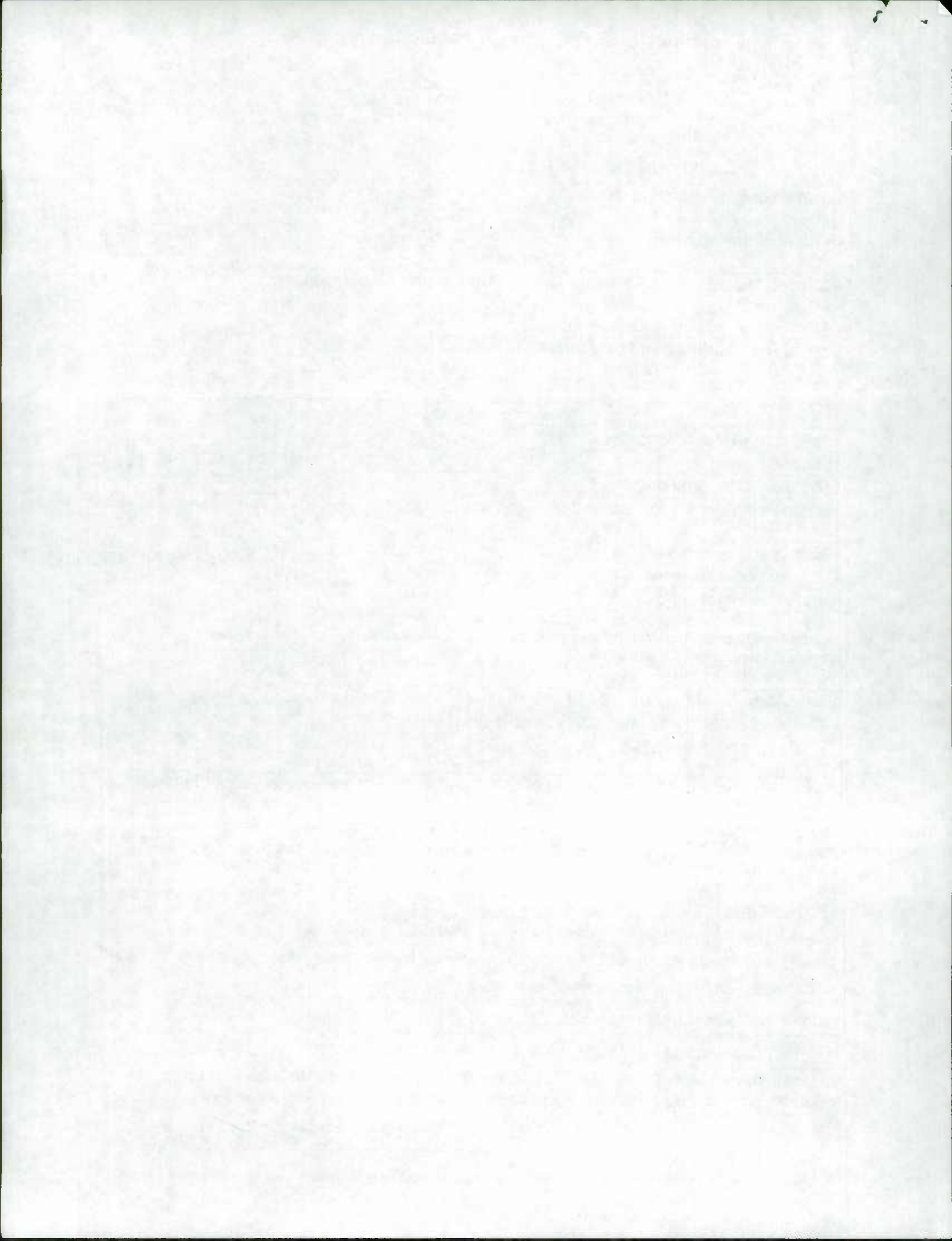
Project Name: Bayside Park	Jurisdiction: Town of Ocean City
Project Description: Renovation and upgrade to existing City park located between 3rd & 4th Street.	
Local Agency proposing project: Town of Ocean City Engineering Dept.	
Contact Name and Phone Number: Terence McGean 410-289-8796	
Project Location (include street address, tax map and parcel number): 301 St. Louis Ave & 301 Philadelphia Ave Ocean City, MD 21842 Tax map #110, Parcel 4054	
Critical Area acreage and designation: 4.4 Acres, IDA	

Project Data	
Existing forest/woodland/trees: 0	% of site:
Proposed clearing: 0	% of existing forest: RECEIVED
Mitigation to be provided:	
Planting location & species (also show on site plan): AUG 28 2008	
Existing impervious surface: 61,279 SF	% of site: 32
CRITICAL AREA COMMISSION	
Proposed new impervious: -12,347 SF	
Total impervious surface: 48,932	% of site: 26
If the % of impervious cover exceeds the permitted amount in the LDA or RCA, the project may need a Conditional Approval from the Critical Area Commission. Please contact your Commission planner for assistance.	
Total Area Disturbed: 190,979 SF	
Stormwater Management: (If site is in the IDA, the 10% worksheets must be attached. Otherwise, local stormwater requirements must be addressed.) Previously Submitted	
Has project received local approval of SWM and sediment and erosion control plans? SWM Approved SEC Pending	
Buffer impacts? Yes, but BMA	Is project water dependent? Yes, Fishing
If there are Buffer impacts proposed and the project is not water dependent, the project may need a Conditional Approval from the Critical Area Commission. Please contact your Commission planner for assistance.	
Other Habitat Protection Areas:	
Colonial Nesting Waterbird site? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Waterfowl Staging Area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Endangered / threatened species? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Forest Interior Dwelling Bird Habitat? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Anadromous Fish Propagation Waters? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Non-tidal Wetland Impacts? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, MDE permit #:	
Tidal Wetland Impacts? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, MDE permit #:	

In accordance with COMAR 27.02.02, we hereby certify that this local agency project is consistent with the requirements of the local Critical Area Program.

 (Signature)

Please sign above, attach the site plan to this report and submit to the Critical Area Commission at 1804



RECEIVED

Critical Area Project Application
Town of Ocean City

JUL 11 2008

CRITICAL AREA COMMISSION

Date: 6/16/08 File# _____

Project Name: Bayside Park

Project Address 301 St. Louis Ave.

Tax Map: 110 Parcel: 4054 Block: _____ Lot# - Zoning P/G

Property Owner Ocean City Mayor & City Council Phone 410-289-8221

Property Owner Address 301 Baltimore Ave., Ocean City, MD 21842

Parcel size (SF): ~~190,979~~ or Site Area (SF) _____ (If < 50% of parcel)

Site size (SF) = area of disturbance plus 5 feet perimeter of actual construction

~~231,007~~
190,979

I. PROJECT DESCRIPTION

Parcels 40,000 SF or more: Critical Area setback is 25 feet. No impervious surface or cantilevering permitted within 25 feet of the shoreline/wetlands. ("Pervious" decks are permitted 10' into setback, per construction standards.)

Parcels less than 40,000 SF: Critical Area set back is equal to the zoning setback (_____ feet). No impervious surface or cantilevering permitted within the setback. ("Pervious" decks at ground level are permitted in the setback, per construction standards.)

Existing Conditions

Impervious surface (SF) 61,279 % of site impervious: 32%

Impervious surface within the 100-foot buffer (SF): 12,664

Proposed Conditions

Impervious surface (SF): 48,932 % of site impervious: 26%

Total SF of disturbed area: 190,979

Impervious surface within the 100-foot buffer (SF): 1,363

Is project in the 100 foot buffer? Yes X No _____ (If yes, continue with Sec. II)
(If no, skip to Sec. III)

Form Revised 8/2/2007(S:Critical Area Project Application doc)

03 15 2011

II. MITIGATION WORKSHEET IN THE 100-FOOT BUFFER

1. Detached Single Family Dwellings (Need Landscaping Plan with schedule/legend per conversion chart below)

Value of Construction: \$ _____

- a. Landscape required in the amount of 2% of the cost of construction (Value of construction x .02 = \$ _____)
- b. Total landscape provided. Attach landscape plan with schedule of native plant material and cost values. \$ _____
- c. Mitigation requirement (if a - b > 0) = Fee in Lieu of landscape. \$ _____ (To be paid prior to issuance of Certificate of Occupancy.)
- d. Setback from water/wetlands _____ SF x .25 = _____ SF
(Landscape SF to be provided in setback area to be shown on Landscaping Plan)

2. Multi-Family and Commercial

All SF values determined from "Landscape Conversion Chart" below.

Activity Description (Complete all that apply):

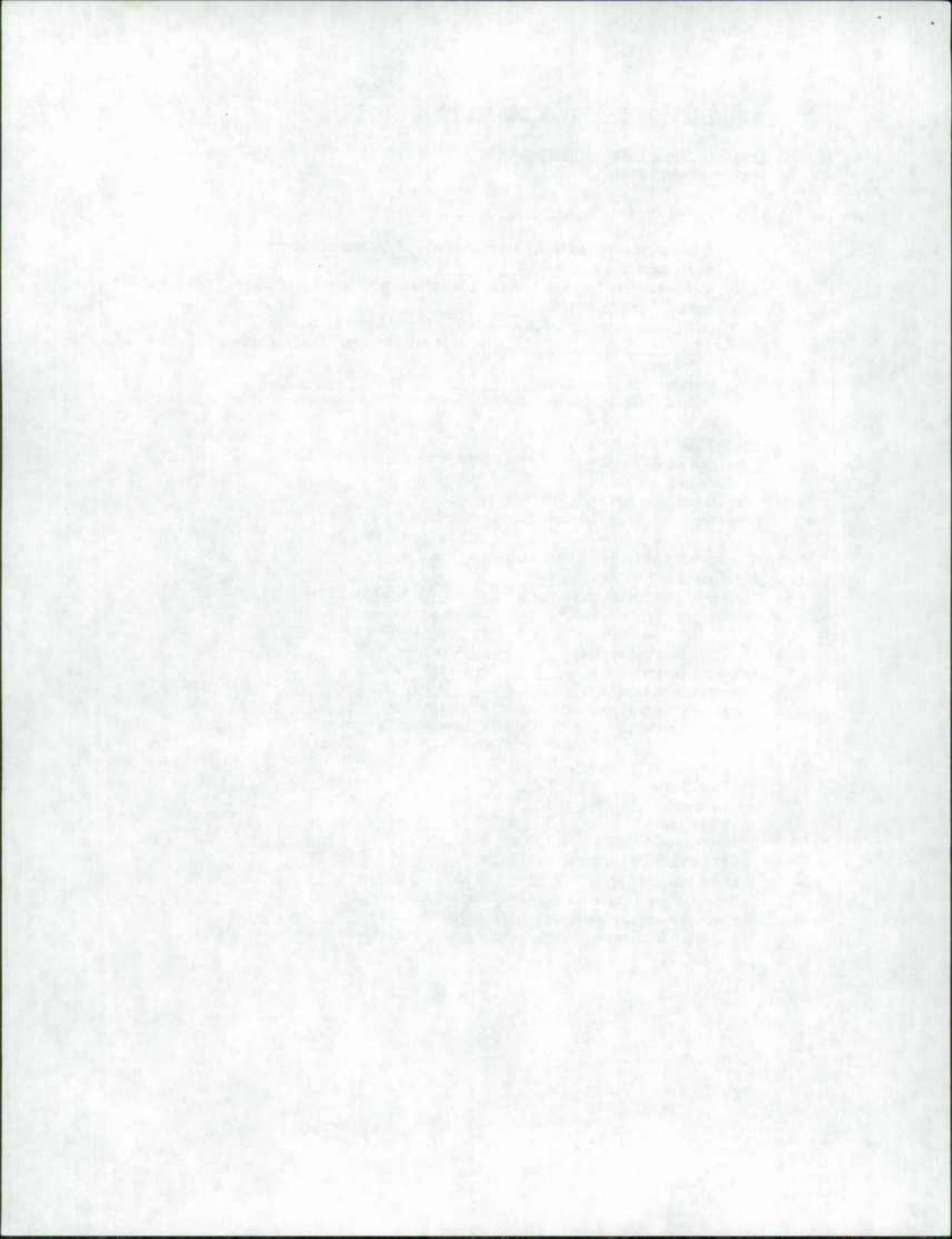
- a. Trees or shrubs removed from outside of setback:
0 x 0 SF x 1 = 0 SF
- b. Trees or shrubs removed from setback # 0 x 0 SF x 2 = 0 SF
- c. Pervious to impervious 801 SF x 2 = 1,602 SF
- d. Improved pervious to improved pervious 16,641 SF x 1 = 16,641 SF
- e. Undisturbed surface disturbed but remaining pervious
0 SF x 1 = 0 SF
- f. Impervious to impervious 3,940 SF x 1 = 3,940 SF
- g. Impervious to pervious 8,745 SF x 0 = 0 SF
- h. Construction of decks in setback 713 SF x 2 = 1,426 SF
- i. TOTAL MITIGATION REQUIRED (sum of a through h) = 23,609 SF
- j. TOTAL LANDSCAPE PROVIDED (Refer to "Landscape Conversion Chart" below)

	Number	Value	Total
Large trees	# 81	x 200 SF	= 16,200 SF
Small trees	# 12	x 100 SF	= 1,200 SF
Large shrubs	# 133	x 75 SF	= 9,975 SF
Small shrubs	# 131	x 50 SF	= 6,550 SF
Herbaceous Plants	# 5912	x 2 SF	= 11,824 SF

TOTAL VALUE OF LANDSCAPE PROVIDED 45,749 SF

k. FEE-IN-LIEU OF LANDSCAPE = i - j x \$1.20 \$ 0
(To be paid prior to issuance of Certificate of Occupancy)

- l. Setback from water/wetlands 7,505 SF x .25 = 1,876 SF
(Landscape SF to be provided in setback area to be shown on Landscaping Plan)



**LANDSCAPE CONVERSION CHART
MITIGATION**

Large tree = 200 square feet = 2" to 2 1/2" caliber - \$200.00 credit
 Small tree = 100 square feet = 1" to 1 1/2" caliber - \$100.00 credit
 Large shrub = 75 square feet = 36" height or spread or 3+ gallon container - \$75 credit
 Small shrub = 50 square feet = 24" height or spread or 1-2 gallon container - \$50 credit
 Herbaceous plants = 2 square feet per plant = 1 quart container - \$2 credit

III. AFFORESTATION (LANDSCAPE) REQUIREMENT OUTSIDE THE 100-FOOT BUFFER

All development or redevelopment within the 1000-foot Critical Area boundary (but outside the 100-foot buffer) must be vegetated with native plant material in an amount of 15% of the site area.

- a. Total landscape required: Parcel size $195,620 \text{ SF} \times .15 = 29,343 \text{ SF}$
 (This SF area must be plantable and vegetated with the required number of plants)
 b. Landscape provided (Refer to Landscape Conversion Chart)

			Existing	Proposed
Large trees	#	70 x 200 SF =	3,200 SF	10,800 SF
Small trees	#	12 x 100 SF =	0 SF	1,200 SF
Large shrubs	#	99 x 75 SF =	750 SF	6,675 SF
Small shrubs	#	131 x 50 SF =	0 SF	6,550 SF
Herbaceous Plants	#	4621 x 2 SF =	0 SF	9,242 SF

TOTAL VALUE OF LANDSCAPE PROVIDED: 38,417 SF

IV. STORMWATER MANAGEMENT AND THE 10% RULE

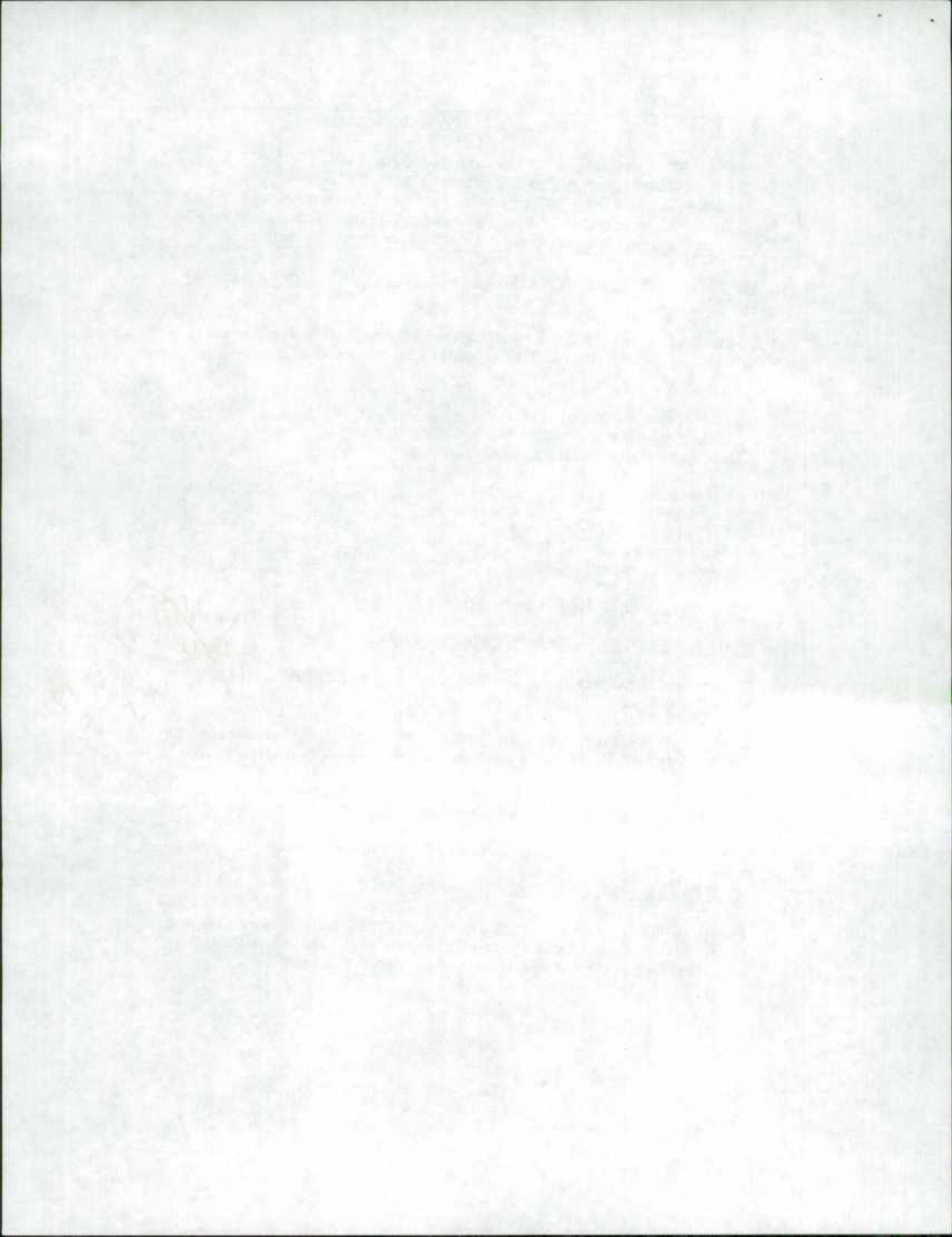
Pollutant reduction requirement for all disturbances over 250 SF in the 1000-foot Critical Area.

1. Single family development subject to stormwater management requirements that use the "Standard Stormwater Management Plan" automatically meet the 10% Rule.
2. Single family development not subject to stormwater management regulations can meet the intent of the 10% Rule by submitting a Water Quality Management Plan.
3. Multi-family and commercial development must submit the 10% Rule Worksheet.

V. HABITAT PROTECTION (skip if it is less than 40,000 SF)

For lots of 40,000 square feet or greater, the applicant must consult with the Maryland Department of Natural Resources to determine the existence of any Habitat Protection Areas that may be affected by the proposed development.

in addition to B unit?
This is included in 45k on II



VI. LANDSCAPE PLAN

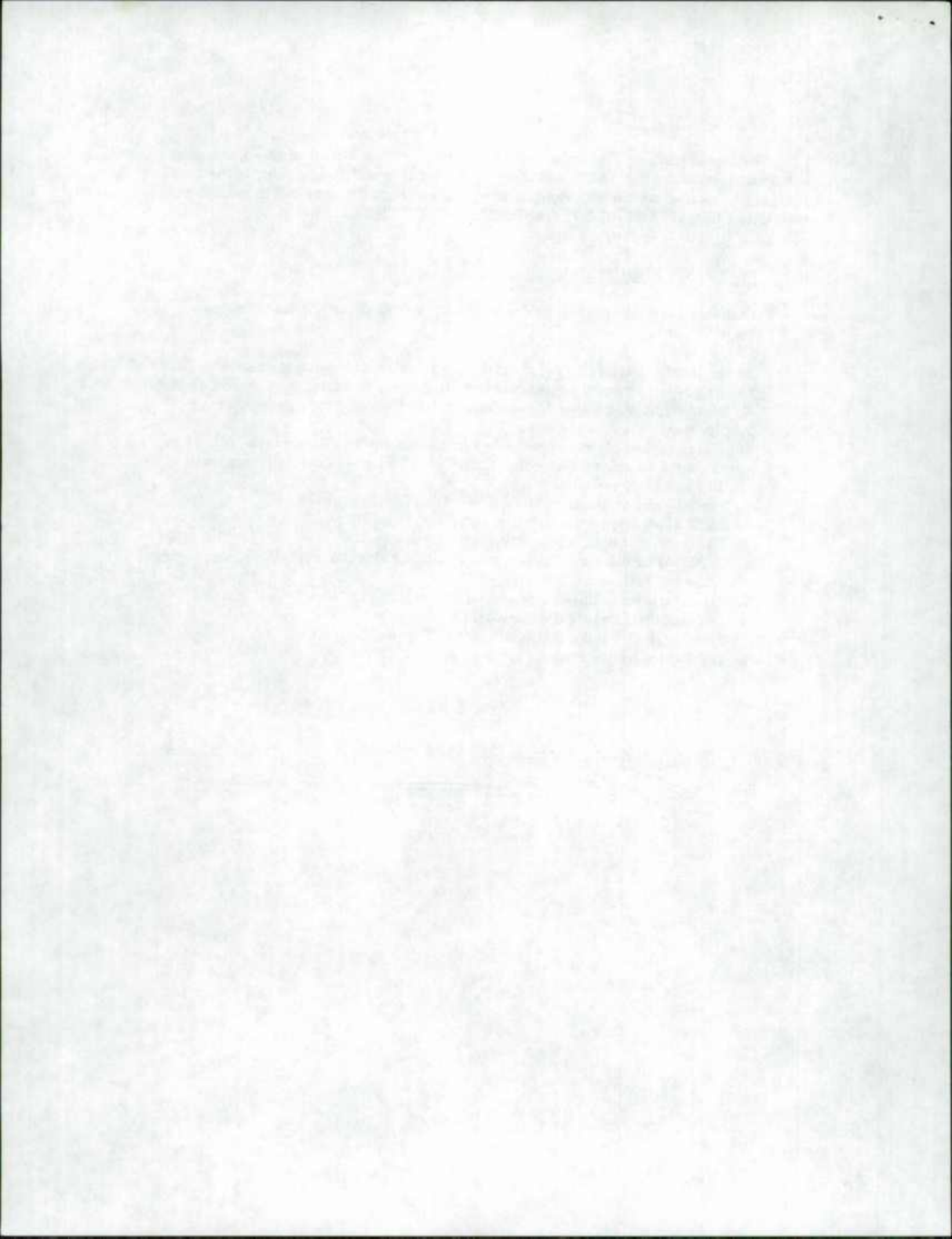
Proposed landscape/mitigation plan (including location, botanical name, common name and installation site and should show all required vegetation according to the Mitigation or Afforestation requirements as well as all vegetation required in accordance with CHAPTER 98, ARTICLE II, LANDSCAPING, OF THE CODE.

VII. SITE PLAN REQUIREMENTS

Critical Area site plan must be drawn to scale and shall include the following information:

1. A title block, including the name of the project or development and the names of the property owner, project data including street name, tax map -parcel and lot,
2. Property lines and approximate location of adjoining property structures
3. North arrow, scale, and legend,
4. All improvements and impervious surfaces (including all structures, sidewalks, sheds, decks, driveways, pools, utilities, etc.) labeled as existing or proposed show dimensions and tabulate
5. Existing and proposed grades and elevation (Topography)
6. Limit of all proposed clearing, grading and disturbance.
7. Existing Vegetation, size and type with legend, and
8. Proposed landscape/mitigation plan (including location, botanical name, common name and installation site)
9. Mean high water line or Delineation of private and State tidal wetlands and Delineation of non-tidal wetlands (If applicable)
10. 100-foot Buffer and setback delineated (If applicable)
11. Habitat protection areas (if applicable)

Reviewed by: N/A Zoning Administrator Date N/A
[Signature] Environmental Engineer Date 7-3-08
TERENCE J. MURPHY CITY





Martin O'Malley, Governor
Anthony G. Brown, Lt. Governor
John R. Griffin, Secretary
Eric Schwaab, Deputy Secretary

September 2, 2008

Terence McGean
Town of Ocean City
PO Box 158
Ocean City MD 21843-0158

RE: Environmental Review for Bayside Park, bounded by 4th st., 3rd st. and Philadelphia Ave., and Assawomen Bay, Park Redevelopment, Worcester County, MD.

Dear Mr. McGean:

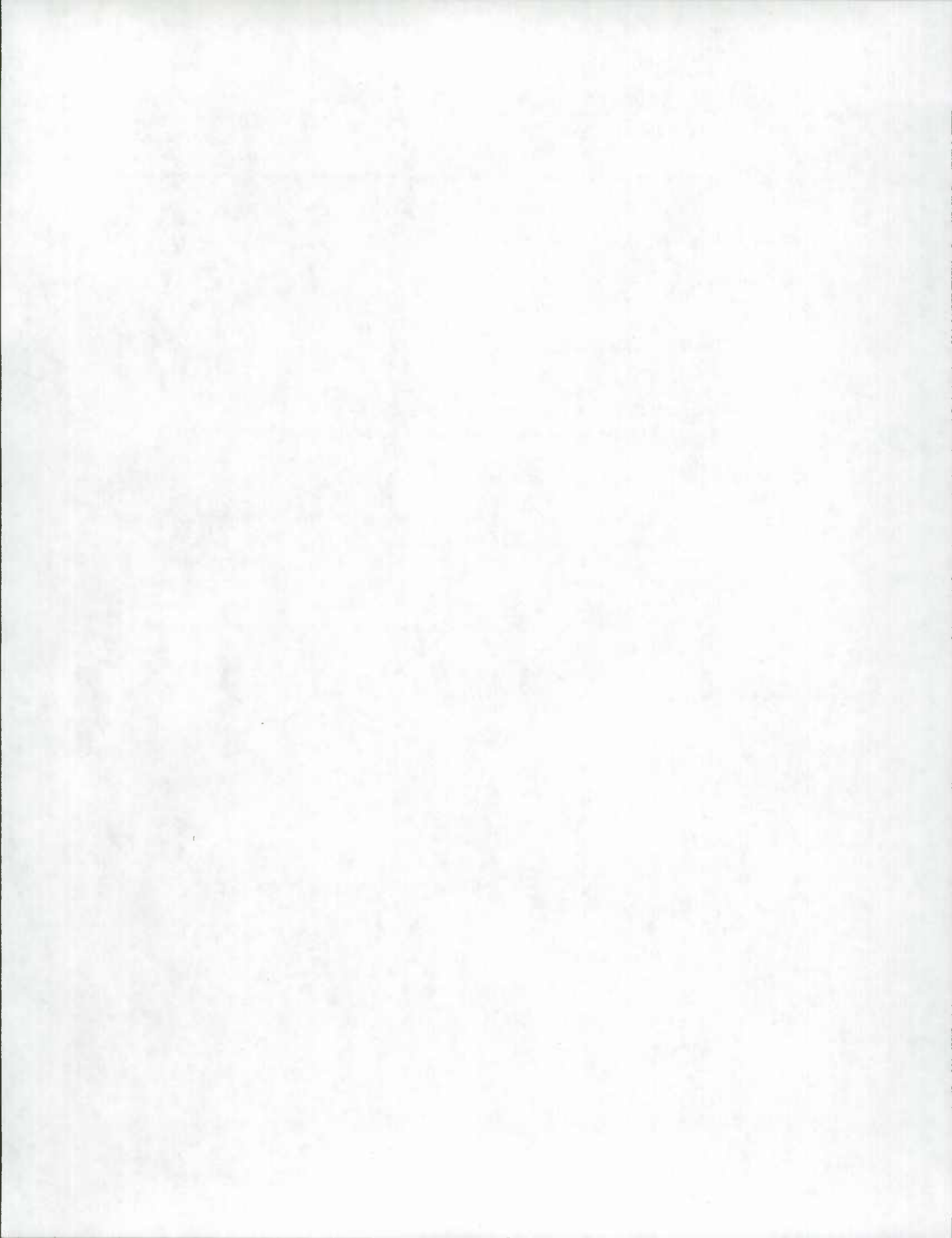
The Wildlife and Heritage Service has determined that there are no State or Federal records for rare, threatened or endangered species within the boundaries of the project site as delineated. As a result, we have no specific comments or requirements pertaining to protection measures at this time. This statement should not be interpreted however as meaning that rare, threatened or endangered species are not in fact present. If appropriate habitat is available, certain species could be present without documentation because adequate surveys have not been conducted.

Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely,

Lori A. Byrne,
Environmental Review Coordinator
Wildlife and Heritage Service
MD Dept. of Natural Resources

ER# 2008.1407





Ocean City Critical Area 10% Rule Worksheet Standard Application Process

Date	_____
Permit#	_____
Project Name	_____
Address	_____

Calculating Pollutant Removal Requirements

Step 1: Calculating Existing and Proposed Site Impervious

A. Calculate Percent Imperviousness

Site Area within the Critical Area IDA, A= 190,979 (sf) ✓

B. Site Impervious Surface Area, Existing and Proposed, (See Table 4.1 for detail)

	(1) Existing (sf)	(2) Proposed (sf)
Roads	<u>38150</u>	<u>19845</u>
Parking Lots	_____	_____
Sidewalks/Paths	<u>10695</u>	<u>13789</u>
Rooftops	_____	<u>509</u>
Decks	_____	_____
Swimming pools/ponds	_____	_____
Other	<u>12434</u>	<u>14789</u>
Impervious surface area (sf)	<u>61279</u> ✓	<u>48932</u> ✓

C. Non-Structural BMP's Applied to the Site

	Non-Structural	Disconnected Impervious Area (sf)
a.	_____	_____
b.	_____	_____
c.	_____	_____

Total Disconnected Impervious Area (sf) _____

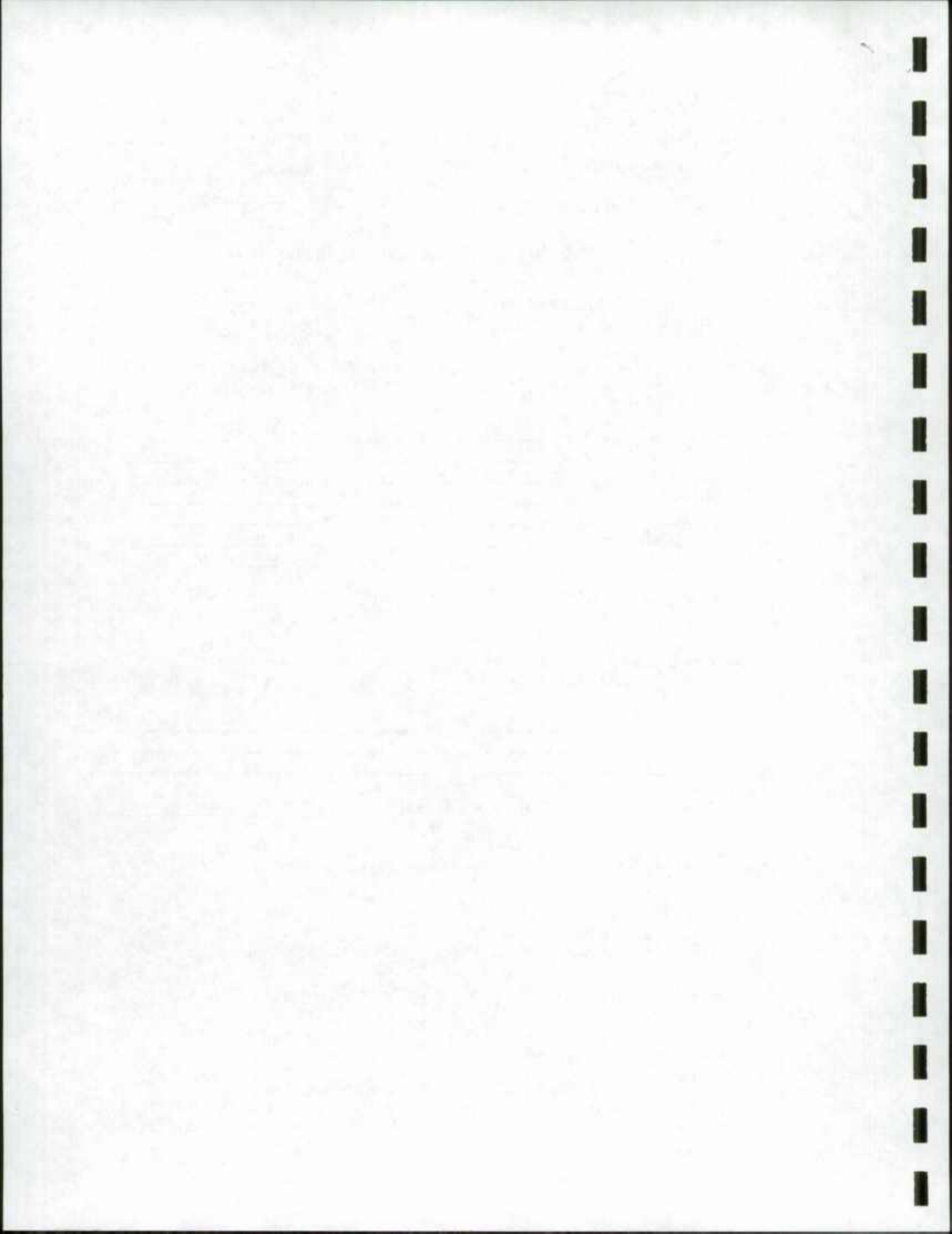
D. Adjusted Proposed Impervious surface Step B (2) minus total of Step C _____

E. Impervious (I) calculations

Existing Impervious - Ipre = Impervious surface/Site Area
 = 32 %
 Proposed Impervious - Ipost = Adjusted Proposed Impervious/Site Area
 = 26 %

Define development category (circle)

- Redevelopment:** Existing Imperviousness greater than 15% I (Go to step 2A)
- New Development:** Existing Imperviousness less than 15% I (Go to step 2B)
- Single Lot Residential:** Single lot being developed single family residential and more than 250 sf disturbed should submit a Standard SWM plan or Residential Water Quality management plan.



Step 2: Calculated the Predevelopment Phosphorous Pollution Load (Lpre)

A. Redevelopment

$$L_{pre} = (Rv) (C) (A) (.000187)$$

$$Rv = .05 + .009 (I_{pre}) \quad Rv = .05 + .009 (\underline{32}) = \underline{0.338}$$

$$L_{pre} = (Rv \underline{0.338}) \times (C.3) \times (A \underline{190979} \text{ sf}) (.000187) = \underline{3.62}$$
$$= \underline{3.62} \text{ lbs/year of total phosphorus}$$

Where:

Lpre = Average annual load of total phosphorus exported from the site prior to development (lb/year)

Rv = Runoff coefficient, which expresses the fraction of rainfall which is converted into runoff.

Ipre = Predevelopment (existing) site imperviousness

C = Flow-weighted mean concentration of the pollutant (total phosphorous in urban runoff (mg/l) = .3 mg/l x phosphorus

A = Area of site within the IDA (sf)

(.000187) = Includes regional constants and unit conversion factors

B. New Development

$$L_{pre} = (0.5) (A/43560) \quad (0.5) (\underline{\quad} /43560) = \underline{\quad}$$

$$= \underline{\quad} \text{ lbs/year of total phosphorus}$$

Where:

Lpre = Average annual load of total phosphorus exported from the site prior to development (lbs/year)

0.5 = Annual total phosphorus load from undeveloped lands. (lbs/acre/year)

A. = Area of the site within the Critical Area IDA (sf)

Step 3: Calculate the Post-Development Load

A. New Development and Re-Development:

$$L_{post} = (Rv) (C) (A) (.000187)$$

$$Rv = .05 + .009 (I_{post}) \quad Rv = .05 + .009 (\underline{26}) = \underline{0.284}$$

$$L_{post} = (Rv \underline{0.284}) \times (C.3) \times (A \underline{190979} \text{ sf}) (.000187) = \underline{3.04}$$
$$= \underline{3.04} \text{ lbs/year of total phosphorus}$$

Where:

Lpost = Average annual load of total phosphorus exported from the site prior to development (lb/year)

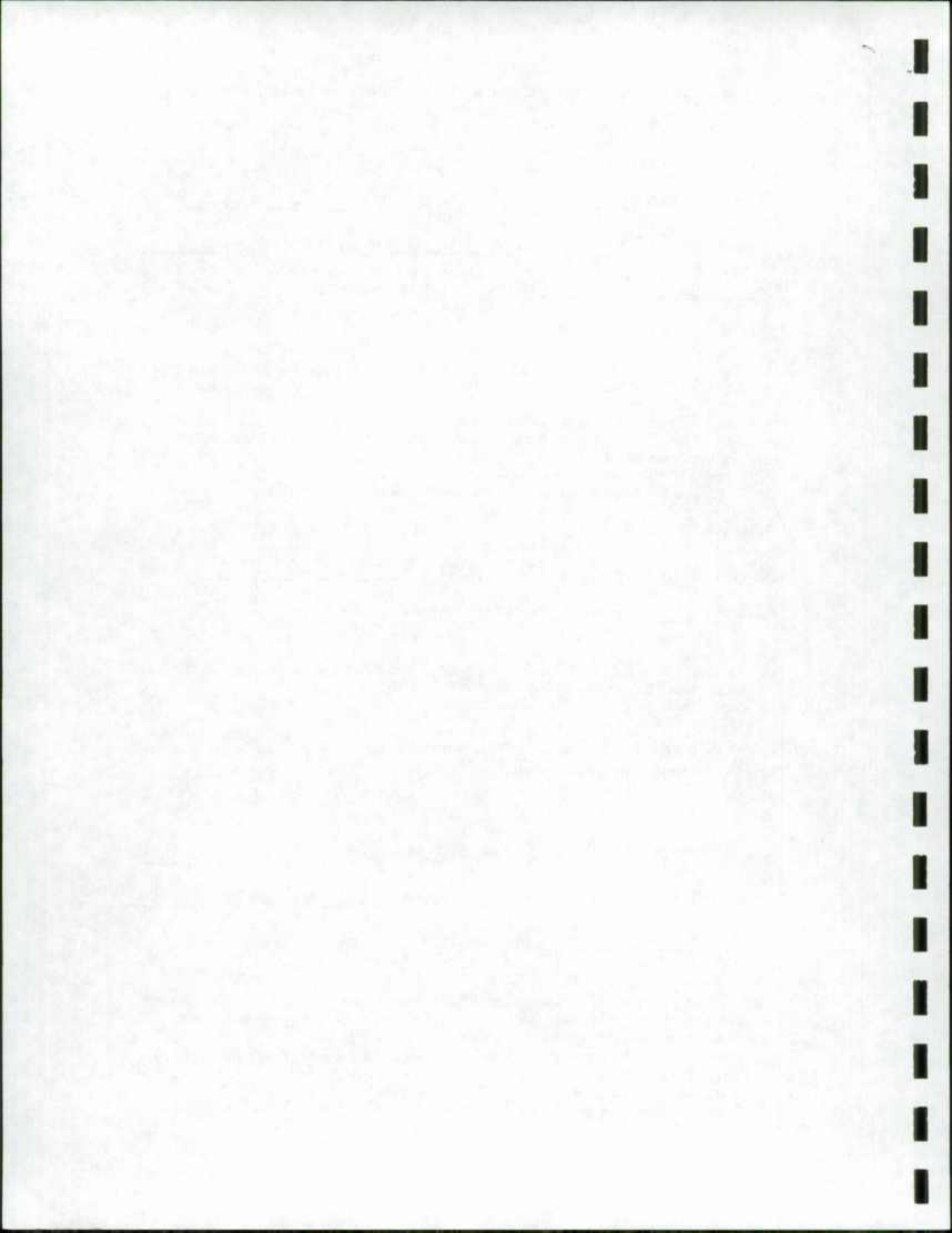
Rv = Runoff coefficient, which expresses the fraction of rainfall which is converted into runoff.

Ipost = Predevelopment (existing) site imperviousness

C = Flow-weighted mean concentration of the pollutant (total phosphorous in urban runoff (mg/l) = .3 mg/l = phosphorus

A = Area of site within the IDA (sf)

(.000187) = Includes regional constants and unit conversion factors



Step 4: Calculate the Pollutant Removal Requirements (RR)

10% Reduction = $0.9 \times (L_{pre}) =$ 3.26

RR = $L_{post} - 10\% \text{ reduction} =$ -0.22
 = -0.22 lbs/year of total phosphorus

Where:

RR = Pollutant removal requirements (lbs/year of total phosphorus)
 L_{post} = Average annual load of total phosphorus exported from the post-development site (lbs/year)
 L_{pre} = Average annual of total phosphorus exported from the site prior to development (lbs/year)

Step 5: Identify Feasible BMP(s)

Select BMP Options using the screening matrices provided in the Chapter 4 of the 2000 Maryland Stormwater Design Manual. Calculate the load removed for each option.

BMP type	(L _{post})	X	(BMP _{pre}) X	% Site served =	LR	
_____	_____	X	_____ X	_____ =	_____	lbs/year
_____	_____	X	_____ X	_____ =	_____	lbs/year
_____	_____	X	_____ X	_____ =	_____	lbs/year
Load Removed/LR (total) =					_____	lbs/year

Pollutant Removal Requirement RR (from Step 4) = _____ lbs/year

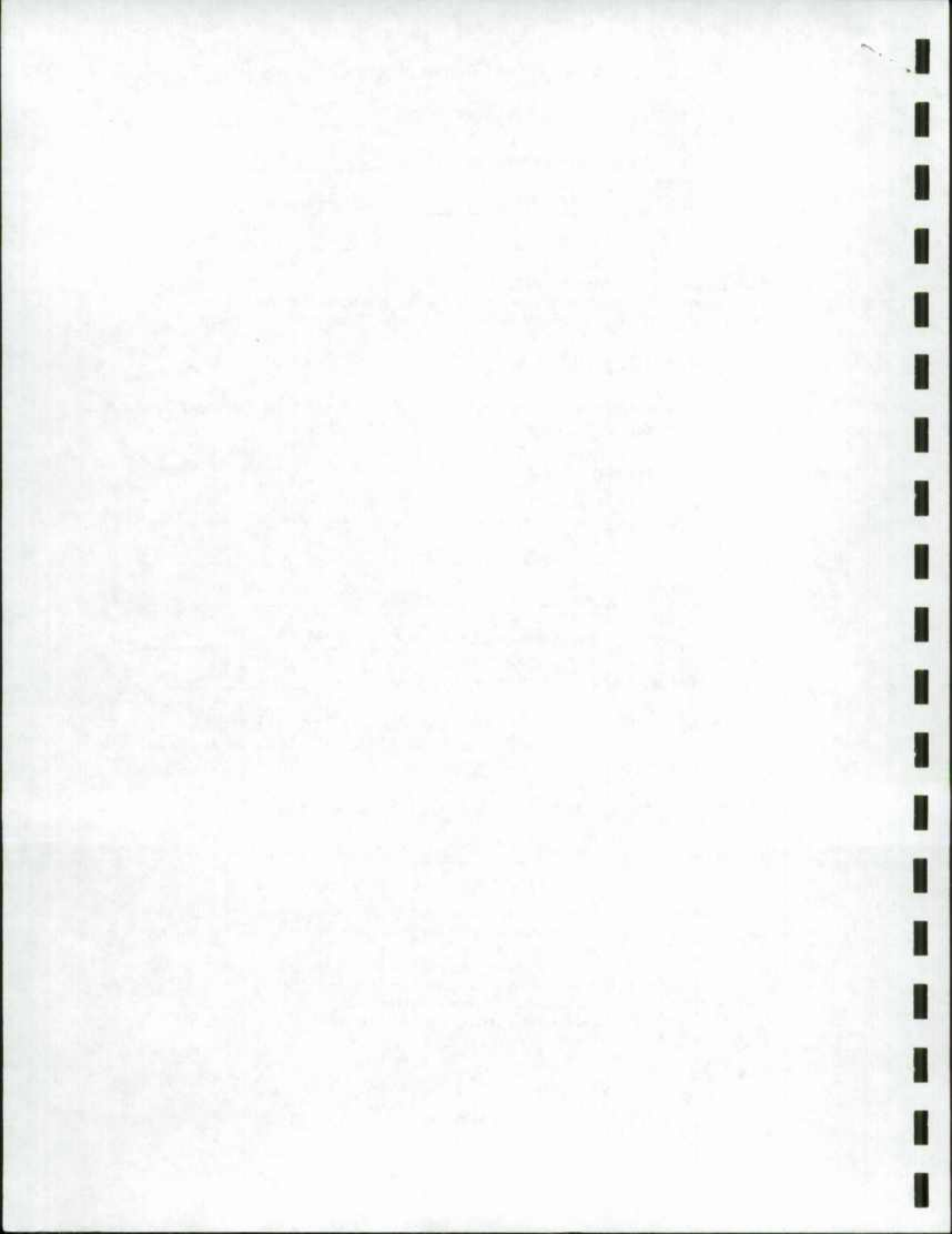
If the load removed is equal to or greater than the Pollutant Removal Requirements computed in Step 4, than the on-site BMP complies with the 10% Rule...else, and more BMPs or Fee-in-Lieu as followed:

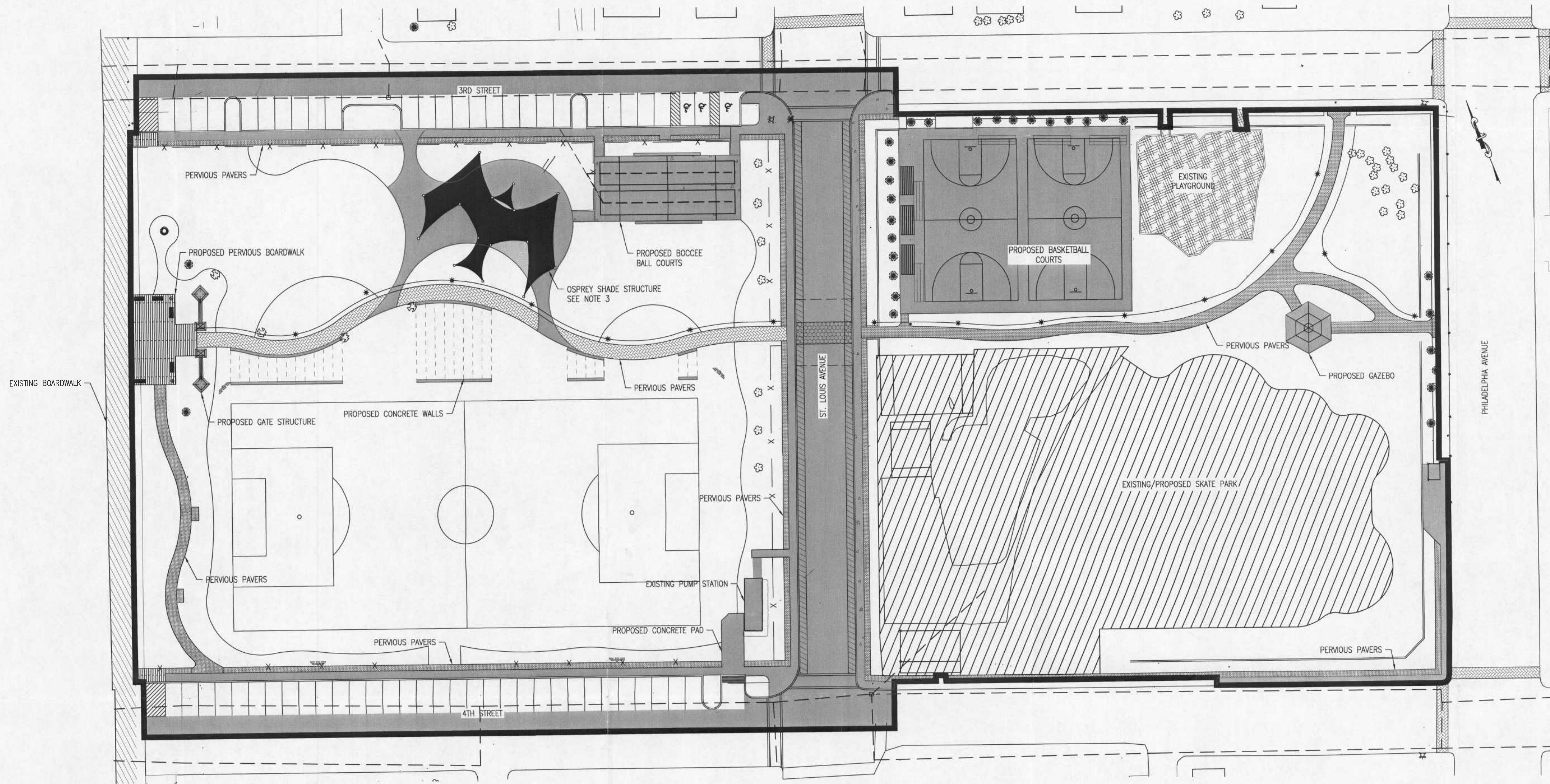
RR minus LR = (i) lbs/year, Fee-In-lieu at (\$20,000 lb per year)

\$20,000 x (i) = \$ _____ Fee-In-Lieu owed

Where:

- Load Removed = Annual total phosphorus load removed by the proposed BMP (lbs/year)
- L_{post} = Average annual load of total phosphorus export from the post-development site development (lbs/year)
- BMP Re = BMP removal efficiency for total phosphorus, table 4.8 (%)
- % DA served = Fraction of the drainage area served by the BMP (%)
- RR = Pollutant removal requirement (lbs/year)
- (i) = Pollutant load not removed by BMP (lb/year)
- Fee-in-Lieu = \$20,000 per (lb)





PROPOSED SITE PLAN
SCALE: 1" = 30'

PROPOSED DRAINAGE AREA DETAILS

TOTAL SITE	= 190,979 FT ²
IMPERVIOUS	48,932 FT ²
OPEN SPACE	142,429 FT ²

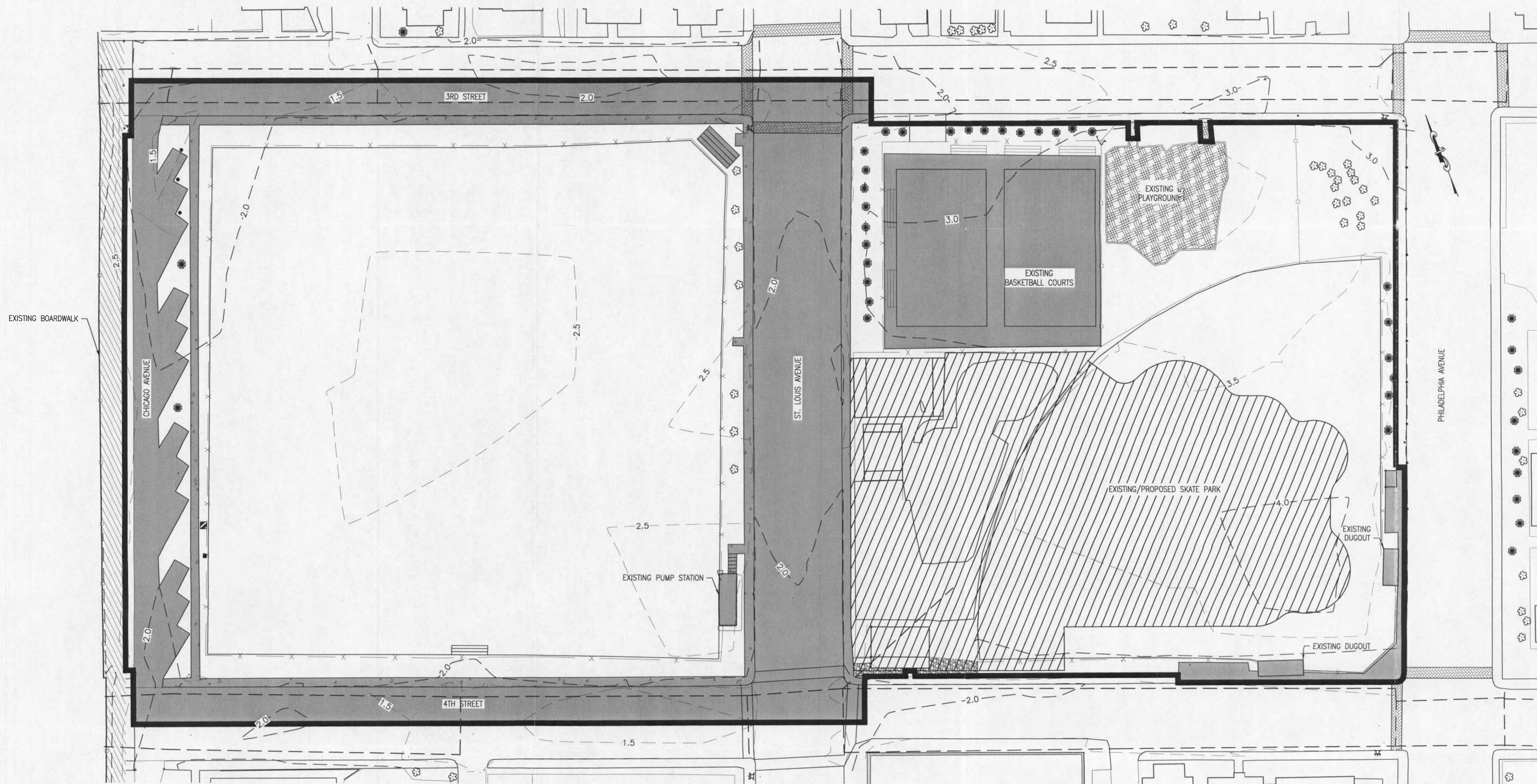
- NOTES:
1. THE EXISTING SKATE PARK AND THE PROPOSED SKATE PARK FOOTPRINT HAVE BEEN REMOVED FROM THE EXISTING AND PROPOSED DRAINAGE AREA CALCULATIONS PER THE DIRECTION OF THE TOWN OF OCEAN CITY.
 2. THE AREA OF THE SKATE PARK FOOTPRINT IS 40,048 FT²
 3. THE PROPOSED OSPREY SHADE STRUCTURE WILL BE CONSTRUCTED WITH A PERVIOUS MESH.

LEGEND

	IMPERVIOUS AREA
	EXISTING/PROPOSED SKATE PARK FOOTPRINT
	DRAINAGE AREA BOUNDARY

RECEIVED
JUL 11 2008
CRITICAL AREA COMMISSION

REVISIONS: DATE: _____ DESCRIPTION: _____ BY: _____	TOWN OF OCEAN CITY, MARYLAND BAYSIDE PARK STORMWATER MANAGEMENT POST DEVELOPMENT DRAINAGE AREA MAP
SEAL: _____	
CIVIL ENGINEER: CENTURY ENGINEERING CONSULTING ENGINEERS, SURVEYORS 4134 N. DUPONT HWY. DOVER, DELAWARE 19901	
 DESIGNED BY: FRM	
DRAWN BY: FRM	
CHECKED BY: BAM	
DATE: 5/9/2008	
SCALE: 1" = 30'	
SHEET NO.: SWM 2.0	
PROJECT NO.: 08501.00	



EXISTING SITE PLAN
SCALE: 1" = 30'

EXISTING DRAINAGE AREA DETAILS	
TOTAL SITE	190,979 FT ²
IMPERVIOUS	61,279 FT ²
OPEN SPACE	129,700 FT ²

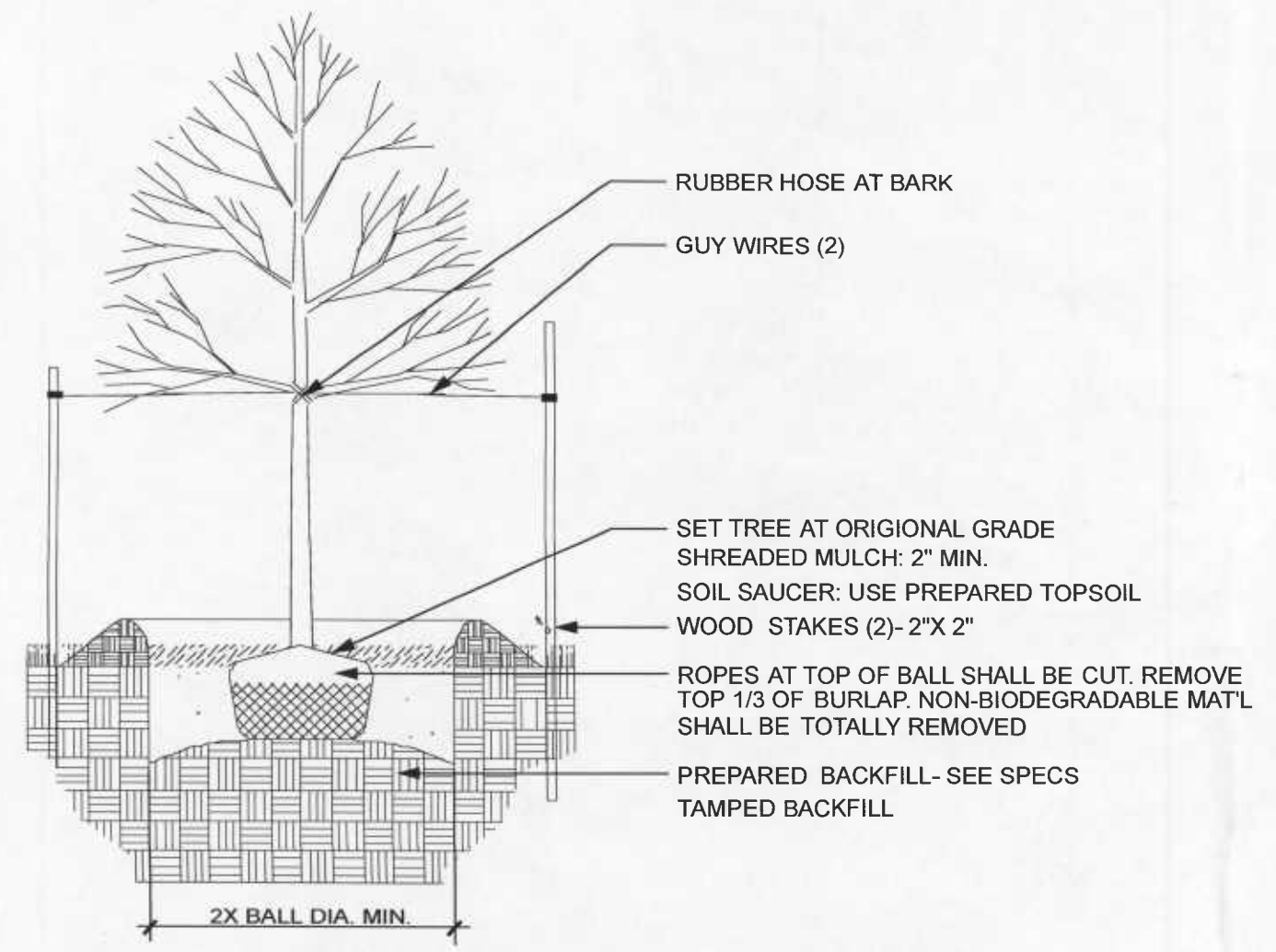
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 2. THE AREA OF THE SKATE PARK FOOTPRINT IS 40,048 FT²

LEGEND

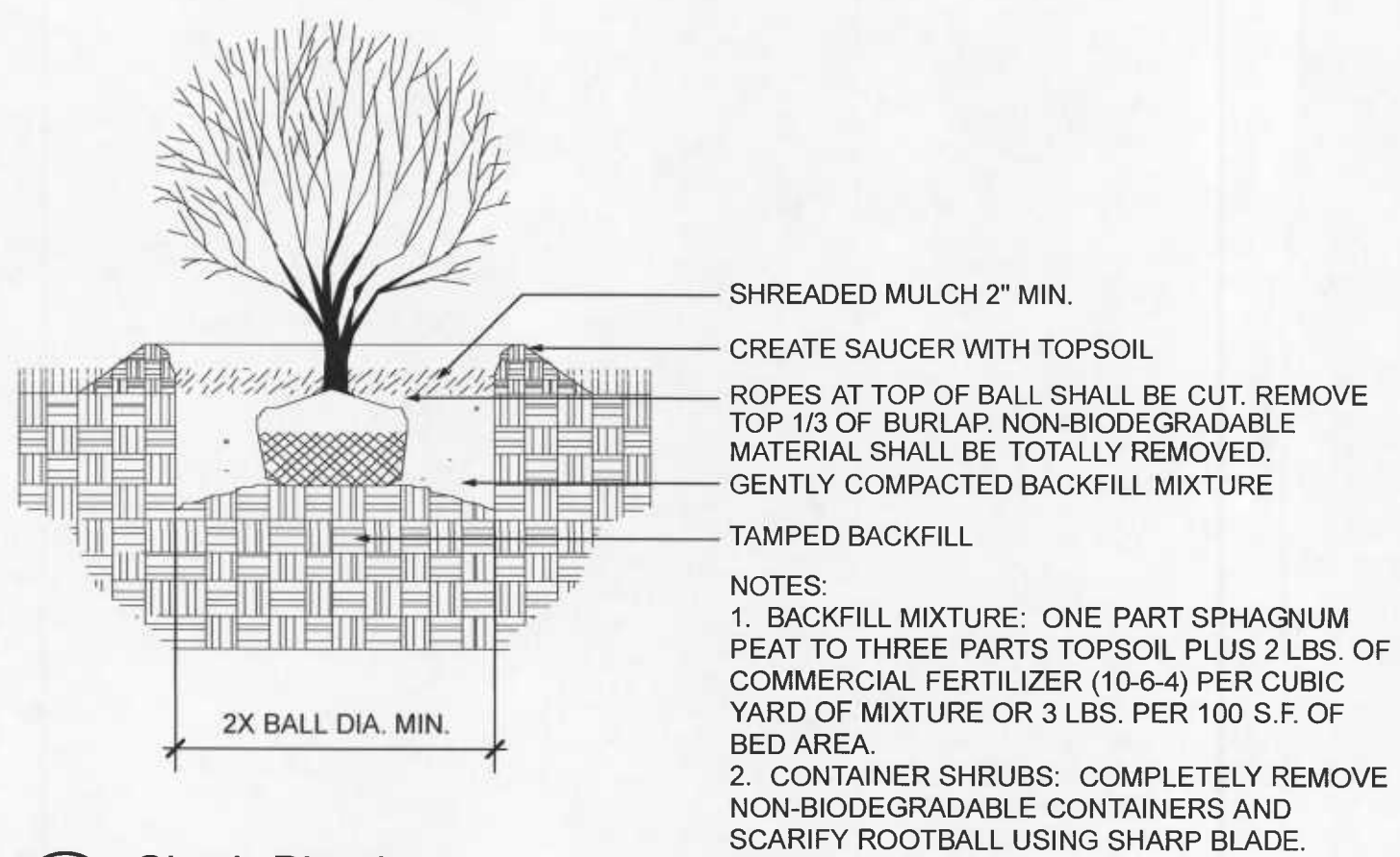
- IMPERVIOUS AREA
- EXISTING/PROPOSED SKATE PARK FOOTPRINT
- DRAINAGE AREA BOUNDARY

<p>REVISIONS:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE:</th> <th>DESCRIPTION:</th> <th>BY:</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE:	DESCRIPTION:	BY:																<p>TOWN OF OCEAN CITY, MARYLAND BAYSIDE PARK STORMWATER MANAGEMENT PRE-DEVELOPMENT DRAINAGE AREA MAP</p>
DATE:	DESCRIPTION:	BY:																	
<p>SEAL:</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>RECEIVED JUL 11 2008 CRITICAL AREA COMMISSION</p> </div>																			
<p>CIVIL ENGINEER:</p> <p>CENTURY ENGINEERING CONSULTING ENGINEERS, SURVEYORS 4134 N. DUPONT HWY. DOVER, DELAWARE 19901</p>																			
<p>DESIGNED BY: FRM</p>																			
<p>DRAWN BY: FRM</p>																			
<p>CHECKED BY: BAM</p>																			
<p>DATE: 5/9/2008</p>																			
<p>SCALE: 1" = 30'</p>																			
<p>SHEET NO.: SWM 1.0</p>																			
<p>PROJECT NO.: 08501.00</p>																			

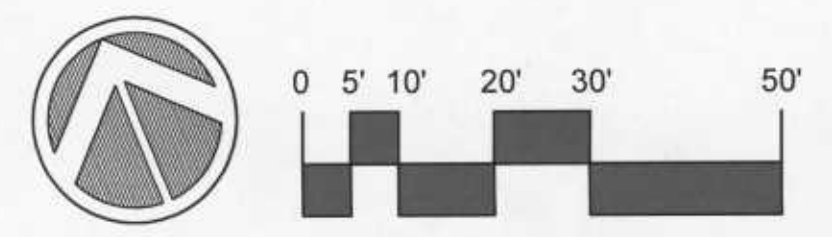
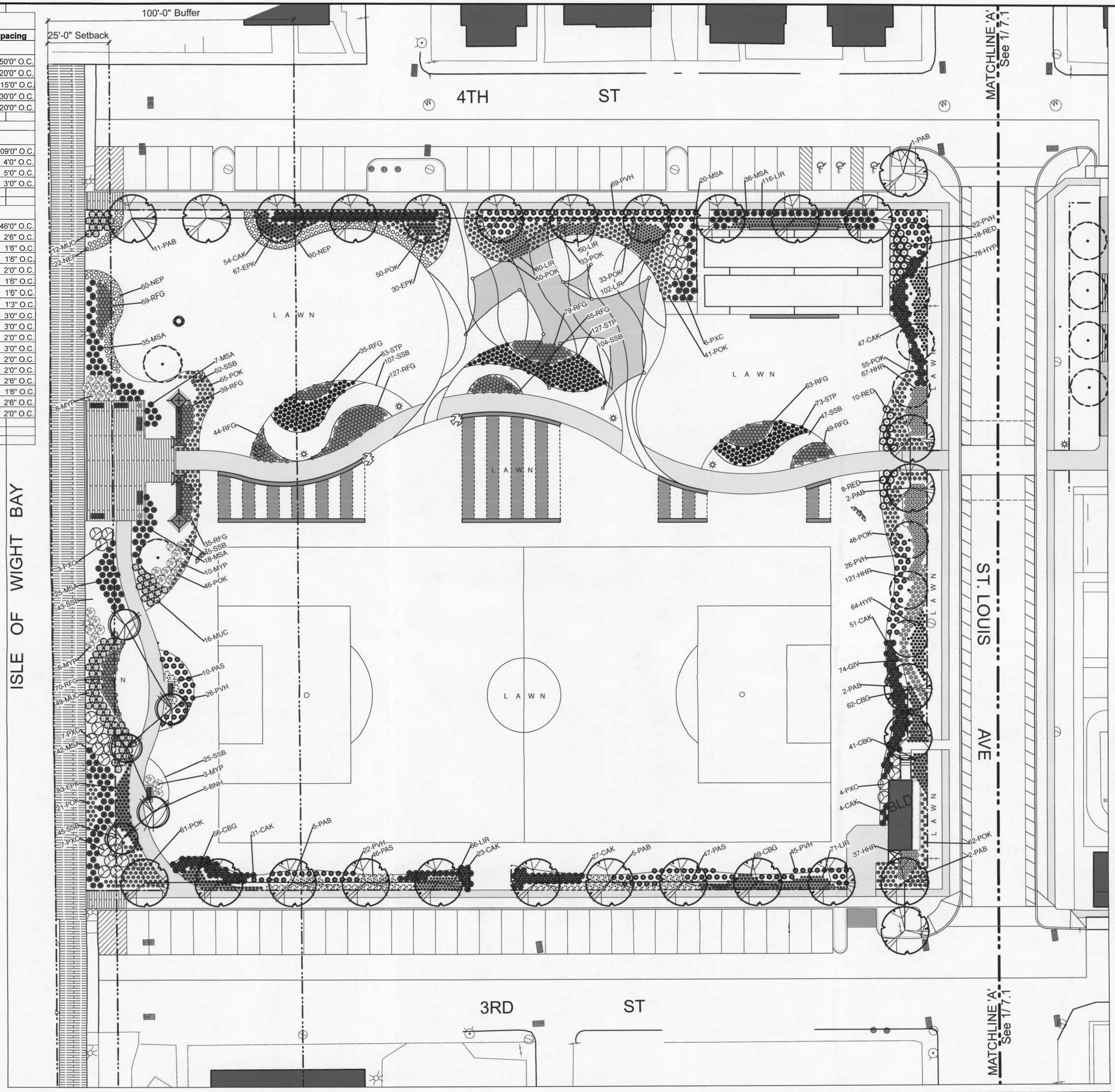
Plant List					
Qty	Symbol	Botanical Name	Common Name	Scheduled Size	Spacing
Trees					
77	18			18	450" O.C.
12	BNH	Betula nigra 'Heritage'	Heritage River Birch	B&B, 8-10' hgt.	20'0" O.C.
12	LIT	Lagerstroemia x 'Tuskegee'	Tuskegee Crapemyrtle	B&B, 8-10' hgt.	15'0" O.C.
47	PAB	Platanus x acerifolia 'Bloodgood'	Bloodgood London Planetree	2 1/2- 3" cal., 12-14' hgt.	30'0" O.C.
6	PAB	Platanus x acerifolia 'Bloodgood'	Bloodgood London Planetree	2 1/2- 3" cal., 12-14' hgt.	20'0" O.C.
Shrubs					
264	27			27	109'0" O.C.
82	MYP	Myrica pennsylvanica	Northern Bayberry	#3, 30-36"	4'0" O.C.
51	PXC	Prunus x cistena	Purple Sand Cherry	3-4'	5'0" O.C.
131	RED	Rosa x 'Radrazz'	Knock Out Shrub Rose	#3, 18-24"	3'0" O.C.
Perennials					
5912	115			115	246'0" O.C.
425	CAK	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	#2	2'6" O.C.
228	CBG	Carex elata 'Bowles Golden'	Golden Sedge	SP4	1'6" O.C.
271	EKV	Echinacea purpurea 'Kim's Knee High'	Dwarf Purple Coneflower	#1	1'6" O.C.
172	GIV	Geranium macrorrhizum 'Ingwersen's Variety'	Crane's-bill	1 gal. cont.	2'0" O.C.
544	HHR	Hemerocallis 'Happy Returns'	Happy Returns Daylily	#1	1'6" O.C.
247	HYP	Hypericum X Hidcote	Hidcote St. Johnswort	#1	1'6" O.C.
485	LIR	Liriope muscari 'Big Blue'	Big Blue Lily Turf	SP2	1'3" O.C.
307	MSA	Miscanthus sinensis 'Adagio'	Adagio Grass	#3	3'0" O.C.
97	MUC	Muhlenbergia capillaries	Mist Grass	#2 Cont.	3'0" O.C.
353	NEP	Nepeta x faassenii 'Walker's Low'	Walker's Low Catmint	#1	2'0" O.C.
337	PVH	Panicum virgatum 'Heavy Metal'	Blue Switch Grass	#2	3'0" O.C.
715	POK	Pennisetum orientale 'Karley Rose'	Oriental Pink Fountain Grass	#2	2'0" O.C.
31	PER	Perovskia atriplicifolia	Russian Sage	#1	2'0" O.C.
103	PAS	Phalaris arundinacea 'Strawberries & Cream'	Ribbon Grass	#1	2'6" O.C.
846	RFG	Rudbeckia fulgida 'Goldstrum'	Black Eyed Susan	#1	1'6" O.C.
468	SSB	Schizachyrium scoparium 'The Blues'	Little Bluestem	#1 Cont.	2'6" O.C.
283	STP	Stipa tenuissima 'Pony Tails'	Mexican Feather Grass	#2	2'0" O.C.



1 Tree Planting
Not To Scale



2 Shrub Planting
Not To Scale



CRITICAL AREA SUBMISSION

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Bayside Park
Contract No. _____

PROPERTY OWNER: Ocean City Mayor & City Council
PROJECT ADDRESS: 301 St. Louis Ave.
Ocean City, MD 21842

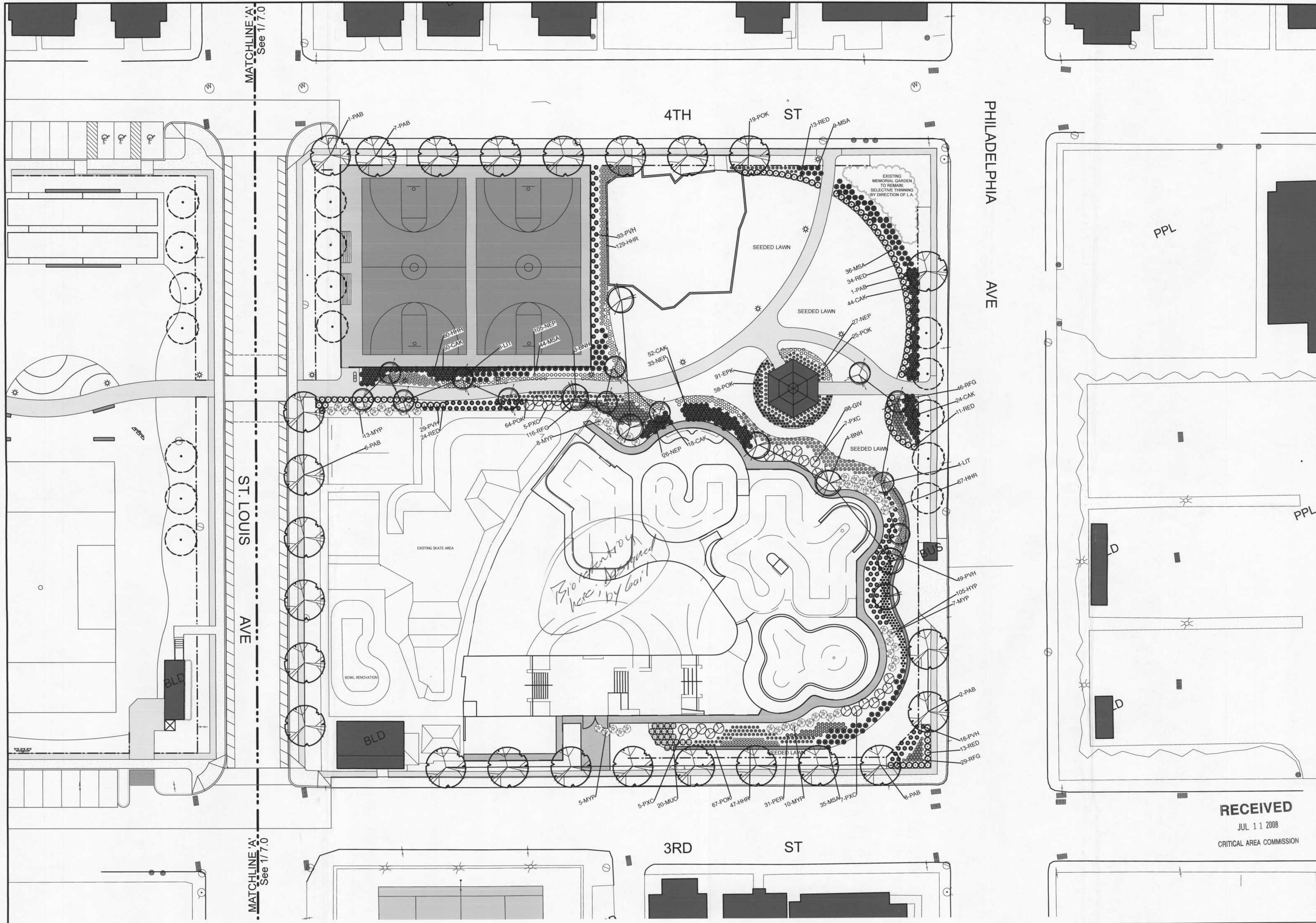
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PARCEL: 4054
LOT#: N/A

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Planting Plan

SCALE: 1" = 20'-0"
DATE: 6 / 16 / 08
DESIGN: A/JB
DRAWN: A/JB

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MATCHLINE 'A' See 17.0

MATCHLINE 'A' See 17.0

PHILADELPHIA AVE

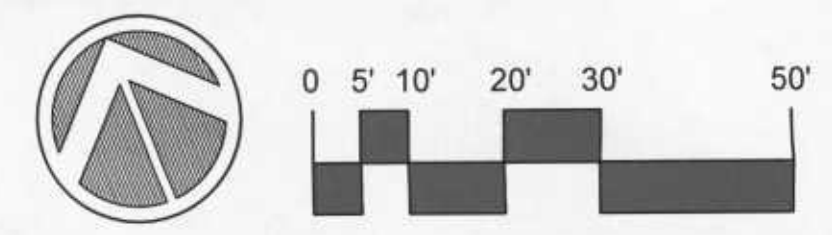
4TH ST

3RD ST

ST. LOUIS AVE

PPL

PPL



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