COMMUNITY FORESTRY MANAGEMENT PLAN

From

January 1, 2018 to December 31, 2022

For the

City of Margate City

Prepared by:

Arbor Care Resources
Mays Landing, NJ

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NJ LTE # 366

April 30, 2018

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Guidelines for a Community Forestry Plan

Municipal Information Form

Municipality: City of Margate

County: Atlantic County

Address: Margate Municipal Complex, 9001 Winchester Avenue, Margate, NJ 08402

Contact Name and Title: Monica Coffey, Sustainable Margate Green Team Chairperson

Phone #: (609) 822-2605 Fax #: (609) 487-1142 Email: mcoffey@acua.com

Organization Name: City of Margate Sustainable Margate Green Team

Business Administrator's Signature: _____

Date of Management Plan: January , 2018

Time period covered in Management Plan: January 1, 2018 through December 31, 2022

Please check off the community Stewardship Incentive Program (**CSIP**) practices identified in your management plan.

- ✓ CSIP # 1 Training
- ✓ CSIP # 2 Tree Ordinance Establishment
- ✓ CSIP # 3 Public Education and Awareness
- ✓ CSIP # 4 Arbor Day Activities
- ✓ CSIP # 5 Tree Assessment/Inventory
- ✓ CSIP # 6 Tree Risk Assessment Plan
- ✓ CSIP # 7 Storm Damage Assessment
- ✓ CSIP # 8 Tree Maintenance and Removals
- ✓ CSIP # 9 Insect and Disease Management
- __ CSIP # 10 Wildfire Protection
- ✓ CSIP # 11 Tree Planting
- ✓ CSIP # 12 Tree Recycling
- ✓ CSIP # 13 Sidewalk Maintenance Program
- ✓ CSIP # 14 Storm Water Management
- ✓ CSIP # 15 Other –Memorial Parkway Project

Official use only *Certification*

The above named community has made formal application to the New Jersey Forest service. I am pleased to advise you that after our review, the NJ Forest service has concluded that this plan meets the standards set forth by the State and the NJ Community Forestry Commission and is Approved for the period covered.

Signed _____
State forester Approved Date

COMMUNITY FORESTRY MANAGEMENT PLAN

For the

City of Margate City

From January 1, 2018 to December 31, 2022

2. INTRODUCTION AND OVERVIEW

Introduction

This is the City of Margate's first Community Forestry Management Plan. This management plan addresses the protection, enhancement and safety of the local community forest, as well as the potential to reduce property loss with a well-managed tree resource. It covers the period from January 2018 through December 2022 and was created in accordance with the 'Guidelines for a Subsequent Community Forestry Plan' as required under the New Jersey Shade Tree and Community Forestry Assistance Act.

This management plan has been developed to provide the Sustainable Margate Green Team, associated municipal entities, and the community with a strategic outline that can be useful in all decisions related to trees and associated public safety issues in the City of Margate City during the period from 2018 through 2022.

This Plan also outlines various elements that increase the community's understanding of the urban forest and increase the public's appreciation of trees on public and private lands that benefit the entire community

Mission Statement

The mission of the City of Margate, in relation to community forestry, is to create a tree canopy throughout the City of Margate that is sustainable, appreciated by the community, beneficial to the environment and native wildlife, and is maintainable within the boundaries of the dense urban environment of the City of Margate.

Program Goals and Objectives

The City of Margate has set the following goals and objectives in an effort to fulfill its mission for the next 5 years.

GOAL # 1 Tree Planting

The Sustainable Margate Green Team will increase the tree population with a proactive tree-planting program that matches the specific tree to the specific planting area by factoring in all of the planting parameters. This tree planting effort will re-establish the tree canopy over the city so that the natural and aesthetic atmosphere of Margate can be preserved. Selecting, planting and maintain trees in the planting strip between the sidewalk and curb (Governor's Strip) is a high priority and will receive special attention. A site parameter may be added for selecting trees near sewer lines to reduce the sewer/root conflicts.

GOAL # 2 Maintaining Hardscape, Vista and Structural Boundaries

The Sustainable Margate Green Team may work in cooperation with the Margate City Commission, the Planning and Zoning Board or the City Engineer to develop an updated plan for sidewalk repair and hardscape remediation. The plan may allow the city to increase the tree canopy over the city streets while reducing or limiting the damage and conflict to sidewalks and hardscape. This plan may include modern methods of installing concrete sidewalks near trees, new sidewalk materials such as specialized pavers and rubber sidewalk material, and methods of repair.

GOAL # 3 Public Education and Awareness

The Sustainable Margate Green Team will develop, implement and support Public Education and Awareness programs that address the community need or interest and educate the community in areas related to the appreciation and care of trees. The goal of these programs will be to increase the community awareness of: the benefits of trees, cultural practices (planting, pruning, removing/replacing), planting of trees that help take up storm water, backyard habitat benefit to wildlife (beneficial insects, bird migratory paths), protection against earth warming and the reduction of energy loss through wind breakers.

GOAL # 4 Tree Maintenance

The Sustainable Margate Green Team will support the Public Works Department and the municipal administration to continue a tree maintenance program that will maximizes public safety relative to public trees, maintain a tree canopy throughout the City of Margate. The Sustainable Margate Green Team will provide information and resources for the city to maintain a balance between long term development of the community forest and the limitations of available funds or resources for mature tree care.

GOAL # 5 Tree Inventory

The Sustainable Margate Green Team will develop and maintain a tree inventory database that includes the pertinent information for decision making that will improve the quality of tree care and the development of the urban canopy in the City of Margate. The Sustainable Margate Green Team will provide information about the community forest to the administrative bodies in the City of Margate that make decisions related to safety, maintenance needs, and planting trees.

GOAL # 6 Tree Ordinance Establishment

The Sustainable Margate Green Team will review current city ordinances related to trees and recommend any necessary supplemental ordinances for the planting, maintenance, protection, and removal of trees that are within the jurisdiction of the City of Margate.

Tree Risk & Liability Objective

The City of Margate recognizes that a well-managed shade tree program provides valuable aesthetic, economic and social resource to the community. The City also recognizes that these benefits do not come without costs and liabilities. As with any public asset, trees require maintenance and it is inevitable that potentially hazardous conditions will evolve. It is acknowledged that not all hazards can be predicted. However, experience in the City of Margate has shown that a proactive management program that strives to anticipate and prevent such problems will cost-effectively maximize the economic, social and environmental benefits of trees while minimizing the potential threat to public safety and exposure to liability.

The City of Margate is committed to improving safety and reducing liability through an aggressive and proactive shade tree management program. Public safety shall be a primary consideration in all shade tree planning, decision-making and activities at all levels of the shade tree management program. This plan provides a systematic means of identifying and abating existing tree hazards on a prioritized basis. Furthermore, the plan provides a means of reducing the potential for future hazards and liability through responsible planting and preventive maintenance.

Liability Statement:
Although street trees and their canopy they provide are an asset to the community, it is inevitable that they mature and require care, maintenance and eventually replacement. Care and maintenance, in addition to planting "the right tree in the right place," can help ensure that community trees not only contribute to the environmental and economic vitality of the area, but also reduce the potential Risks to public safety. Our community must work within a reasonable budget that may not be able to meet each and every need of our community forest immediately. Therefore it is the intent of this plan to focus available resources to the greatest need and step by step work towards a healthy forest with commensurate reduced risks to public safety.

We feel, by taking logical steps outlined in the plan, we will garner public support for plan implementation and demonstrate the long-term benefits to the environment and public safety.

We also want to become more pro-active in the management and care of our trees. Through inventory and Risk assessment, we will position our Sustainable Margate Green Team to take corrective action prior to structural tree failure and other hazardous tree related conditions. It is acknowledged that not all hazardous conditions will be predicted. But, it's much like trying to predict which tooth might break next. Good maintenance and care will reduce the probability but unexpected events will still occur.

Following this plan will demonstrate that the City of Margate is devoting reasonable levels of resources in a planned manner to reduce the number of tree related accidents and thereby reduce its exposure to liabilities and increase public safety.

3. COMMUNITY OVERVIEW

The City of Margate is located on Absecon Island and is approximately 1.50 miles long and 1.0 miles at its widest point. It is bordered by Ventnor City to the Northeast and Longport Borough to the Southwest, with the Atlantic Ocean to the East and Beach Thoroughfare (the "Bay") to the West.
The streets that border Margate are Fredericksburg Avenue on the Ventnor side, and Coolidge Avenue on the Longport side. The majority of the streets in Margate run in alphabetical order beginning with Argyle Avenue and ending with Washington Avenue heading toward Longport. After Washington Avenue the streets are named for Presidents.
A little bit of History
Margate City has a long and rich history. Originally known as South Atlantic City, in 1869 the State Legislature paved the way for Margate to be chartered as a municipality.
The extension of a railroad line through the City and the building of a restaurant-hotel in 1881 in the shape of an elephant named "Lucy" began to shape the growth of Margate.

Margate City Geography and Terrain
A quote from Steve Eisenhauer, Regional Director of Stewardship and Land Protection:
"The classic definition of sustainability suggests that our future depends on supporting and managing three interdependent domains: environment, economy, and society. Among these, society, often gets overlooked. But in fact, it may be the most important of the three as it determines not just our quality of life, but our capacity to act together to solve our problems. Every other sustainability issue that we want to solve is, in some way, dependent on our system of governance. If governance is ineffective, our attempts to solve sustainability issues will also be ineffective."
Cape May Point-retains a significant canopy-today
Margate City-1925 – developers plotted out home building lots starting in the late 1800's, eliminating old growth trees and vegetation while filling in lower swampy/marshlands by dredging and building up coastal sod banks.
Overview of NJ Coast/Barrier Islands:
NJ's seacoast, from Bay Head to Wildwood Crest is fringed by off shore sandbars or barrier beaches and a maze of low, marshy islands and tidal flats that are interwoven with tidal channels. The barrier beaches, salt marshes, submerged sandbars, dunes and sandpits are the buffers and shock absorbers of the continent. The beaches are where the immovable object meets the awesomely irresistible forces of the ocean waves, ocean currents, winds, storm surges, and hurricanes. 2 The fragile nature of NJ's coastal beach communities is confirmed by the fact that the shape is constantly shifting and changing, because the sand, the very substance of the coastline is always in motion and moving. What the ocean giveth, the ocean can taketh away and it takes.3
History of land development in Margate City:
Absecon Island was discovered in 1623 by Dutch explorer, Captain Cornelius Mey. Early Absecon Beach was a very desolate region in its early days. Sand dunes, snakes, grape vines, holly, wild plums, bayberry bushes, Virginia creepers and red cedars were present. Indians visited but never settled here. 4 The land was not desirable in terms of the expected standards and economic values, as seen in this quote from Thomas Budd in 1695, a land investor:
"I will take the farmlands, but not those swamps and sand dunes-not at any price! Be reasonable, gentlemen, what will those islands ever be good for -sea gull nests?"
So, said Thomas Budd in 1695, when protesting a requirement that forced him to buy beachfront land on Absecon Island at four cents an acre before he could buy the more desirable farmland on the mainland for forty cents an acre!5
Meadows and bayberries covered most of Margate in its early years, catering to the fishing and hunting enthusiasts. In 1881 the construction of Lucy started by James Lafferty, a real estate man with a vision to lure home lot buyers from

Philadelphia to purchase land in Margate. He ran an ad: Public Sale of Choice Building Lots near the Elephant Hotel and Restaurants south of Atlantic City. In 1884 the Camden and Atlantic Railroad turned south from Atlantic City and ran the length of the island. Both Lucy and the train started the transition from the natural terrain to gravel roads and then to the black top of today.
The first streets laid out was Vicksburg Avenue, which is now Fredrichsburg Avenue, then New Orleans, Davenport, Cairo, Detroit, Cincinnati, Garfield, Barton, Cedar Cove and Benson. Only the last two streets have the same names today.6
By 1892 a trolley system extended the length of the island and was double tracked. The stench from clams that were decaying next to the tracks, as the ocean tides brought the clams inland, was a factor for riders. However, the visitors enjoyed watching the gulls feast on the shell fish. Clams were removed by wagon loads by the city authorities.
The island contained different terrains and physical attributes. The Map of South Atlantic City, drawn by Albert Whittaker 1898 identifies Margate's terrain using section/numbers.7

- #1 & 2 were sod banks built to hold back tide water.
- # 3 was a low salt marsh with high sand dunes covered with bayberries along the ocean front.
- #4 was the higher ground, known as Pine Woods, with cedars, large pines some fifty feet high, wild cherry and a fine growth of timber where Douglass and Monmouth Avenues are now.
- #5 was filled in low ground from dredges from Coolidge to Washington Avenues during 1907-08 replacing the salt meadows and muddy salt ponds.
- #6 was old cedar grove creek and filled in from Mansfield to Union.
- #7 is Pacific Avenue, which was a gravel road with two by eight feet hemlock curbing and the sidewalks had thick growth of grass on them.
- #8 was filled in and graveled after 1898.

Conclusion:
The original and natural terrain of Margate was typical of a southern NJ barrier island as compared with other NJ shore barrier islands. The indigenous species were varied and groves of pines and cedar trees covered the higher ground, with vines, holly, many bush like species, and grasses and dunes covering the low grounds and coastal areas.
Although we cannot revert to the way it was more than 100 years ago, we can attempt to re-plant and replace those species which can thrive in a seashore environment. This effort would simultaneously help to reduce both water run-off and help to preserve the underground aquafers that sustain fresh water on the island. Additionally, by increasing the overall canopy on the island, the effort would provide significant shade and have an immediate effect upon the overall island temperature, lowering the heat emissions, as well helping to reduce the carbon footprint.

1 http://www.levins.com/lucy.html
2 & 3 "A Geography of NJ: The City in a Garden by Charles A. Stansfield, Jr., 1998.
4. 6, 7, 8 History of South Atlantic City and Early Days of Margate by Frank J. Tiemann, 1993.
5 "Down the Jersey Shore" by Russell Roberts & Rich Youmanis, 1993.

<u>Information from the Margate Master Plan</u>

In an effort to be more "green" and reduce the environmental impact of the City and its residents, and sustain the quality of life on Margate for the long term, the city formed the "Sustainable Margate" committee in 2013. The committee is comprised of both city employees and local volunteers. The main goal of Sustainable Margate is to help coordinate municipal, long term sustainability efforts. The team also works regularly to work toward achieving certification from Sustainable Jersey, a state organization that offers grants based on sustainability standing Working with Sustainable Margate, the city has implemented various programs in recent years to reach sustainability goals. They have worked on conducting a vehicle fleet inventory, waste and recycling programs, and transportation planning reforms. Since Hurricane Sandy, there has been an increased emphasis on coastal resilience. Margate also has strong community outreach that has engaged the public in local environmental issues. The result of this work has led to Margate receiving a Bronze rating from Sustainable New Jersey in October 2014.3 In 2016, Margate was awarded Blue Star certification by Clean Ocean Action, an organization that works to improve the quality of marine waters off the New Jersey coast.
Margate has undertaken many sustainability efforts to date which have resulted in tangible improvements as well as recognition for Margate as well as its Sustainability team.

Relation to the City of Margate's Municipal Master Plan and Open Space Plan

The goals of this Community Forestry Management Plan are consistent with the goals of the Master Plan and are designed to preserve the unique character of the City of Margate and maintain a high quality of life for the permanent residents as well as seasonal visitors.

The Statement of Objectives, Principals, Policies and Standards in the Master Plan list 11 specific purposes of the plan. Included in that are the purposes to: 'Promote a desirable visual environment through creative development techniques and good civic design and arrangement', 'Promote the conservation of historic sites and districts, open space, energy resources and valuable natural resources in the State and to prevent urban sprawl and degradation of the environment through improper use of land', and 'Encourage planned unit developments which incorporate the best features of design and relate the type, design and layout of residential, commercial, industrial and recreational development to the particular site'. The goals and objectives of the Community Forestry Management Plan are consistent in both the intent of the goals and in the specific outcome of the objectives in the master plan.

The direct reference to trees and the community forest in the Master Plan is limited. However, the inferred reference can be found within the 'Land Use Policy' section, the 'Recreation and Open Space' section, the 'Sustainability Element', and the 'Implementation - Actions and Recommendations' section. Future Master Plans should incorporate this Community Forestry Management Plan within the Master Plan and also include it as an addendum.

4. COMMUNITY FORESTRY PROGRAM ADMINISTRATION

Structure of the Sustainable Margate Green Team and Municipal Administration

The management of the community forest and the administration of the community forestry program is a cooperative effort between the Mayor, City Commission, Business Administrator, Public Works, Planning & Zoning Board, Emergency Management, City Solicitor, Sustainable Margate Green Team, and the residents of the City of Margate.

Structure and Responsibilities of the Sustainable Margate Green Team

The Sustainable Margate Green Team is an advisory committee. The Green Team is responsible for providing information and resources to assist in decisions that affect the planting, maintenance, and removal of trees on city controlled property in the city of Margate. The committee is also responsible for community education, awareness and outreach as it relates to trees. The Green Team is charged with the responsibility to "Go Green", "Save Money", and sustain the quality of life in Margate for the long term". They will work to lessen Margate's environmental footprint, energize local volunteerism for stewardship, conduct educational forums and provide central coordinated leadership for appropriate existing programs and committees that are environmentally oriented. The members are appointed by the mayor.

The interaction between the Sustainable Margate Green Team and the other municipal entities on tree related issues requires a constant exchange of communication and correspondence. Since the actual implementation of construction or development projects are performed by other departments and municipal entities, the Green Team must work interactively on any of the issues pertaining to the trees in Margate.

The Sustainable Margate Green Team may assist the Margate City Commission, the Department of Public Works, the Planning and Zoning Board and the City Engineer on tree related projects such as improved tree planting methods, updated tree species lists, or an updated plan for sidewalk repair and hardscape remediation. Such efforts will allow the city to increase the tree canopy over the city streets while reducing or limiting the damage and conflict to sidewalks and hardscape.

The current Sustainable Margate Green Team members are: Monica Coffey- Chairperson, Richard Deaney - City Business Administrator, Franz Adler -Asst. Director of Public Works and Recycling Coordinator, Ellen Lichtenstein - Board Member, Michelle Bellinger - Board Member,

Interactive Relationship with the Mayor and Commission Pertaining to the Community Forest

Margate has adopted the commission form of city government. There are three commission seats, which are elected during a non-partisan at-large election. Each commission seat is for a 4-year concurrent term. The Mayor is then selected from among the elected Commissioners by a vote between them and assigned to the office by resolution.

The Mayor and the Margate City Commission are committed to maintaining the community forest to the extent that public safety and budgetary constraints allow. The City Commission is responsible for appointing members to the Sustainable Margate Green Team. The Mayor and Commission are responsible for approval of ordinances and policies and approval of the budget. The Sustainable Margate Green Team has been working closely with the City Commission on issues related to trees within the community. The Mayor, Public Works Director or Police Chief may have emergency powers for tree related issues when public safety is a concern.

Interactive Relationship with the Business Administrator Pertaining to the Community Forest

The Margate City Business Administrator serves as the principal administrative officer of the City of Margate and is responsible to the Board of Commissioners, as a whole, for the proper and efficient administration of the business affairs of the City of Margate. Among the duties he is to supervise and coordinate the administration of all departments and offices in consultation with the Commissioner of each respective department.

The Business Administrator is involved in many of the issues related to trees that come to the Sustainable Margate Green Team and in many of the determinations made in regard to trees within the city. The Business Administrator serves as a link between all of the municipal entities within the City.

Interactive Relationship with the Building Department and City Engineer Pertaining to the Community Forest

The Margate City Building Department accepts and processes all building applications for any type of construction project. The office of the City Engineer is currently contracted to the firm of Remington, Vernick & Walberg of Pleasantville, NJ, provides civil engineering services to the municipality. They oversee and provide the planning and designing of a wide range of projects and related infrastructure. The Building Department is responsible for issuing construction permits and inspecting building sites.

The Building Department does not usually interact with the Sustainable Margate Green Team when reviewing projects that involve tree removal or construction near trees A goal for the Green Team may be to become more proactive in the tree selection, tree planting and tree protection process. The process would allow the Green Team to become involved in an advisory capacity during the construction permit review process and work interactively with the Building Department and the Zoning Officer. This would allow the Green Team to get notification and make recommendations for site and plan review.

Interactive Relationship with the Planning and Zoning Board Pertaining to the Community Forest

The Planning and Zoning Board is responsible for reviewing and approving landscape plans that include trees and development projects that include tree planting or construction near street trees. The Planning and Zoning Board oversees and regulates the development within the City of Margate under the Land Use ordinances, Chapter 175: Article IV that includes landscaping. These ordinances specify the minimum landscape and vegetation requirements and requirement for trees to be planted on developed properties. The Planning and Zoning Board maintains a Plant Species List that is adopted into the Land Use ordinance.

The Planning and Zoning Board does not usually interact with the Sustainable Margate Green Team to review the plans or make recommendations on tree preservation. A goal for the Green Team may be to become more proactive in the tree selection, tree planting and tree protection process in the initial planning stages of construction projects. The process would allow the Green Team to become involved in an advisory capacity during the construction plan review process and work interactively with the Planning and Zoning Board. This would allow the Green Team to get notification and make recommendations for site and plan review.

Interactive Relationship with the Public Works Department Pertaining to the Community Forest

The Public Works Department performs most clearance pruning for street trees and cleanup of fallen trees and branches. The Public Works Department only performs a limited amount of tree pruning or removal. The department has chain saws and pruning equipment but does not has does have a chipper or climbing equipment.
After a severe weather event the Public Works Department and Emergency Management assess the damage within the city and work with representatives of the Public Works Department and private contractors to address all of the damage and respond immediately.

Interactive Relationship with the City Solicitor Pertaining to the Community Forest

The city solicitor is responsible for all legal aspects of the community. The solicitor reviews any recommendations for new tree ordinances and is instrumental in developing new regulations related to maintaining and protecting trees in Margate.

Interactive Relationship with the Emergency Management Coordinator Pertaining to the Community Forest

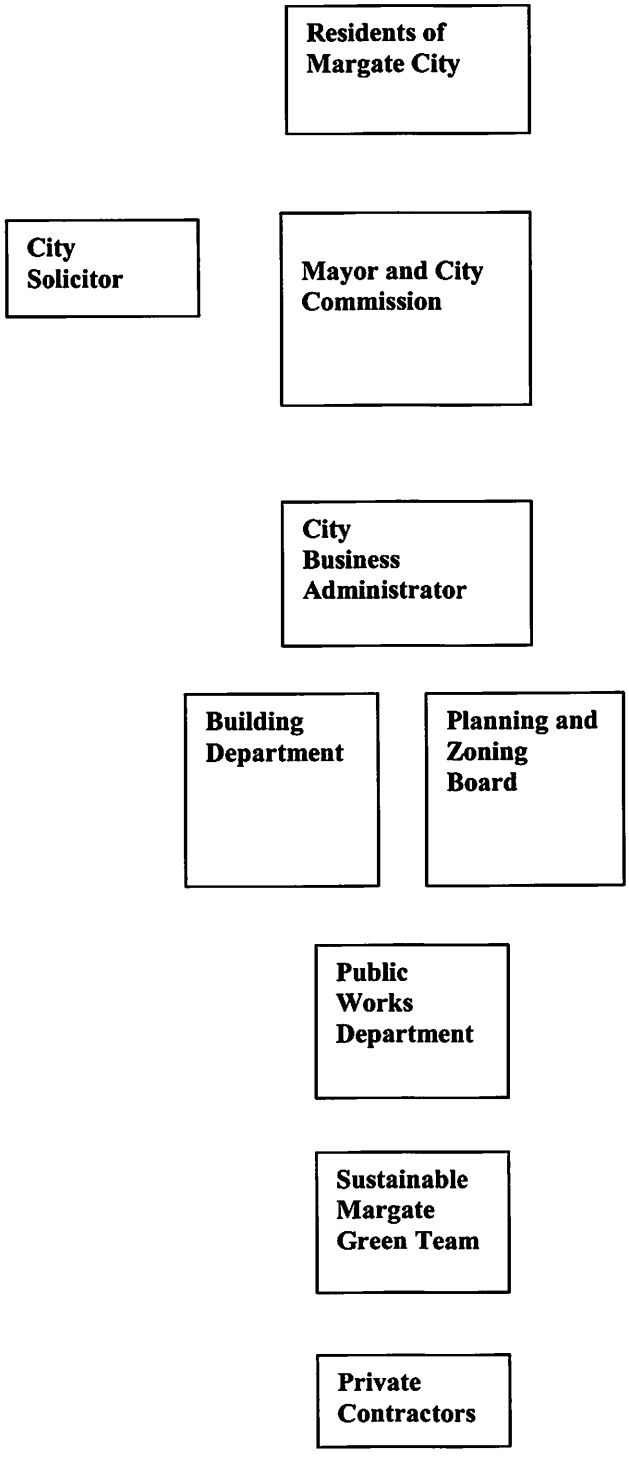
The emergency management coordinator is responsible for the implementation of the Tree Care Disaster Plan during any Emergency periods and for the coordination of all emergency services related to trees during an emergency period. The coordinator advises residents of dangerous situations, oversee evacuation routes, and responds to requests during emergencies. The Mayor, Public Works Director or Police Chief may have emergency powers for tree related issues when public safety is a concern.

Interactive Relationship with the Residents of the City of Margate

The residents of the community are the primary benefactors of all that is done to maintain a healthy community forest. The residents should notify the Sustainable Margate Green Team or the Public Works Department of any trees that are becoming hazardous, declining or have been injured. Residents or property owners may be required to water new plantings on the street in front of their property.

The Sustainable Margate Green Team provides information to the residents on tree related topics such as planting trees that benefit migratory birds, proper pruning techniques and avoiding topping, mulching, sidewalk repair, and similar tree care information.

Organizational Chart



Responding to tree service requests for trees on municipal property

Processing
Most calls for tree related issues are initially reported to the police department and referred to the Public Works Department.

Responding
The Public Works Department performs most clearance pruning for street trees and cleanup of fallen trees and branches. In an emergency the Emergency Management Coordinator Mayor, Public Works Director or Police Chief will make a decision.

Contracting Tree Service Companies
The city has only limited tree maintenance equipment or municipal personnel trained in tree maintenance at the present time. The Public Works Department will respond to emergency situations in a limited capacity. Contracted private tree service companies perform large pruning projects and removals. Most of these projects are planned well in advance so as to allow time to receive bids from at least 3 local tree service companies.

Amendments to this Community Forestry Management Plan
This plan is based on objectives and conditions that were valid at the time it was developed. However, the city recognizes that conditions and needs may change over time and that this plan may become outdated. Therefore, this plan may be amended according to the following procedure.

1. Community Forestry Management Plan amendments shall be coordinated by the Margate City Commission.
2. Amendments may be requested by any of the participating groups within the municipality.
3. Formal, written requests shall be made to Margate City Commission and include justification for the changes.
4. Each participating group shall forward its comments to the Margate City Commission.
5. If the Margate City Commission finds that the requested changes are justified, it shall draft changes and approve them in accordance with its authority under State Statute 40: 64 1 – 14.
6. The revised and/or updated Community Forestry Management Plan shall then be submitted to the New Jersey Community Forestry Council for approval in accordance with the New Jersey Shade Tree and Community Forestry Assistance Act.

5. COMMUNITY MAP – The Community Map is attached

6. TRAINING PLAN - CSIP #1
The City of Margate is committed to maintaining a high standard of quality in both the development and the maintenance of the urban forest in the city. This standard can only be achieved through ongoing training and professional development for all individuals that are part of overseeing the community forest.

Sustainable Margate Green Team members are encouraged to participate in educational programs related to tree care and tree identification. Educational materials are made available to the members from the National Arbor Day Association, International Society of Arboriculture and the New Jersey Shade Tree Federation.

The intention of the Sustainable Margate Green Team is provide training opportunities for Tree Risk Assessment, Young Tree Pruning and Mature Tree Care to employees of the Public Works Department and the Building Department.

These training and professional development programs will:
1. Ensure that tree evaluations are performed to consistent standards and all data collected is in a standardized form.
2. Create a continually increasing pool of members within the community that are trained or experienced in the field of arboriculture.

3. Fulfill the requirements of the New Jersey Shade Tree and Community Forestry Assistance Act that reduces or eliminates the liability of the Sustainable Margate Green Team and the city under the Tort Claims Act.
4. Ensure that the community forest in the City of Margate continues to be a cherished and valuable asset to the community

Current Training Needs

The Sustainable Margate Green Team has identified the following areas where ongoing training is necessary:

1. Core Training for untrained members of the Sustainable Margate Green Team and municipal personnel.
2. Tree Risk Assessment, Young Tree Pruning and Mature Tree Care for members of the Sustainable Margate Green Team, municipal personnel, and volunteers.
3. New developments in in reducing tree/hardscape conflicts such as new planting methods, sidewalk repair and hardscape remediation.
4. Basic Arboriculture, tree identification, and proper pruning techniques for members of the Sustainable Margate Green Team and municipal personnel.
5. Community based teaching seminars open to all residents of the City of Margate

Existing Programs, Policies & Procedures

1. Sending a untrained commission members to Core Training sessions each year
2. Sending interested municipal employees to training sessions each year
3. Ongoing Training for Core Trained members and board members waiting for core Training

Goals

The Sustainable Margate Green Team will provide training resources for the members in Core Training and arboricultural related issues that are related to the community need. This will ensure that both members of the Sustainable Margate Green Team and municipal personnel have the training necessary and the information available to properly manage the community forest.

Objectives

Objective # A: The Sustainable Margate Green Team will request a speaker or instructor from a state agency or state organization to come a Sustainable Margate Green Team meeting one or more times a year to provide education.

In House Educational Training Program

The Sustainable Margate Green Team will request speakers from the New Jersey Shade Tree Federation, the New Jersey Forest Service or the New Jersey Committee for the Advancement of Arboriculture to provide a guest speaker for a spring and / or a fall training seminar. The presentations will be open to the city residents and the Green Team will encourage interested municipal employees and board members to attend.

Objective # B: The Sustainable Margate Green Team will continue to encourage all Sustainable Margate Green Team members to receive core training.

Core Training Program

The Sustainable Margate Green Team will send all untrained members of the Sustainable Margate Green Team and interested municipal employees to a Core Training seminar that will satisfy the requirements for the New Jersey Shade Tree and Community Forestry Assistance Act Core Training

Objective # C: The Sustainable Margate Green Team will continue to encourage all Sustainable Margate Green Team members to participate in educational programs related to tree care and tree identification.

Ongoing Training

The Sustainable Margate Green Team will send members of the Sustainable Margate Green Team or the municipal government to training opportunities to ensure that members of the Sustainable Margate Green Team receive specialized training in each of the following categories:
Basic Arboriculture, tree identification, proper pruning techniques, pruning young trees, planting, specialized tree planting methods in urban soils, tree care disaster planning, new methods of correcting sidewalk/tree conflicts, tree selection, soil modification and the use of composite soils.

Objective # D: The Sustainable Margate Green Team will provide training to ensure that all of the committee members and municipal employees are adequately trained in tree risk assessment and tree inventory assessment.

I. Tree Risk Identification

The Sustainable Margate Green Team will provide on-site training seminars for members of the Sustainable Margate Green Team, municipal personnel, and volunteers to be able to identify hazardous tree characteristics and to rate them according to a standardized rating method.

II. Specialized Training for Municipal Employees

Municipal employees will receive specialized training in proper pruning techniques, Pruning young trees for proper development, proper tree planting, and Tree Risk Assessment.

III. Maintaining Hardscape, Vista and Structural Boundaries

The Sustainable Margate Green Team will work to assist the Margate City Commission, the Planning and Zoning Board and the City Engineer to develop an updated plan for sidewalk repair and hardscape remediation. This plan may include modern methods of installing concrete sidewalks near trees, new sidewalk materials such as specialized pavers and rubber sidewalk material, and methods of repair.

Training Sources

The Sustainable Margate Green Team will continue to utilize a variety of training and information sources including:

1. The New Jersey Forestry Commission's Training & Accreditation Program
2. Local & Regional Shade Tree Meetings & Seminars (New Jersey Shade Tree Federation, New Jersey Chapter of the International Society of Arboriculture, Rutgers Cooperative Extension Service, Rutgers University Office of Continuing Professional Education, Committee for the Advancement of Arboriculture, etc.)
3. In-house Training Sessions & Workshops
4. Trade Publications and Educational Materials (materials distributed by the above groups will continue to be received and distributed)

7. PUBLIC EDUCATION / AWARENESS / OUTREACH - CSIP #3

The Sustainable Margate Green Team will develop, implement and support Public Education and Awareness programs that address the community need or interest and educate the community in areas related to the appreciation and care of trees. The goal of these programs will be to increase the community awareness of: the benefits of trees, cultural practices (planting, pruning, removing/replacing), planting of trees that help take up storm water, backyard habitat benefit to wildlife (beneficial insects, bird migratory paths), protection against earth warming and the reduction of energy loss through wind breakers.

Existing Programs, Policies & Procedures

Arbor Day: Arbor Day is proclaimed every year in the City of Margate. Activities include educational programs at elementary schools including tree seedling distribution and a tree planting.

Service Bulletins: A variety of handouts and Arbor Day, Tree City USA or ISA Informational Bulletins are distributed freely to help answer homeowner questions, explain the results of a tree inspection, or simply satisfy someone's curiosity. These bulletins are available upon request

Press Releases: Press releases relating to current events and tree-related concerns are distributed to local newspapers when appropriate, typically 4 times per year.

Public Education Seminars: Public Education Seminars for the community on topics such as tree planting have been provided when resources are available.

Objectives

Objective A: The Sustainable Margate Green Team will encourage the proper care of trees on private property, which in turn will benefit the entire community.

I. The Sustainable Margate Green Team will distribute and promote an updated list of recommended trees that is reflective of the current tree inventory, growing conditions, and the community needs.
II. The Sustainable Margate Green Team will distribute tree care literature related to proper tree planting, young tree pruning, proper mulching and related topics for homeowners.
III. The Sustainable Margate Green Team will develop and implement guidelines to inform contractors about the city's current city tree ordinances and the new Licensed Tree Expert Law.

Objective B: The Sustainable Margate Green Team will educate all citizens in the importance of the community forest. The Sustainable Margate Green Team will facilitate at least 1 educational seminar for the community on a topic related to the appreciation of and care of trees

Objective # C: The Sustainable Margate Green Team will use available media and communication resources to provide information and educational material for Margate residents and homeowners on the proper care, benefits and importance of the community forest.

I. The Sustainable Margate Green Team will submit at least 3 articles to a local newspaper every year.
II. The Sustainable Margate Green Team will send homeowners a letter about proper care such as mulching, no topping, and pruning.

Objective # D: The Sustainable Margate Green Team will develop and implement a community tree planting project that includes volunteer support.

Objective # E: The Sustainable Margate Green Team will participate in city and local events to promote the city's Community Forestry Management Program.

8. STATEMENT OF TREE BUDGET

Tree Budget

The Sustainable Margate Green Team is funded by the City of Margate as per the attached budget. The members and alternates, with the exception of the public works representative, are all volunteers and serve without compensation. The hours they spend on commission business are estimated to be valued at ***$ 27 per hour*** and the amount of time the spent within their districts, at monthly meetings and in training programs varies from year to year.

Funding Sources

Municipal:
The primary method of funding from the city is through the municipal contribution and services in kind for the needs of the commission administrative needs, equipment and materials for tree planting projects, and contracted pruning and removal.

Donations and private funding:
No donations are received from other sources in the community

Grants:
The City of Margate received a grant to develop a new 5 year Community Forestry Management Plan

Services in Kind:
Volunteer time and labor are contributed privately from residents.

Budget and Expenses for the year 2017

Budget and Expenses for the Year 2017		
	Cash	**Service in Kind**
Income		
Municipal Contribution: Municipal Services (Public works) Leaf and Brush Collection (Public works)	$179,475	 $ 119,100 $ 89,325
Private / Commercial Contributions	$ 0	$ 0
Municipal In-kind Services (Volunteers) (volunteer hourly rate = $24/hr)	N/A	$
Grants, green community	$ 3,000	$
Total Revenue	**$ 182,475**	**$ 208,425**
Expenses	**Cash**	**Service in Kind**
Public Works: Mulch Equipment Expense Pruning and Maintenance Labor Leaf and Brush Removal	 $ 6,000 $ 52,000 N/A $ 46,475	 N/A N/A $ 119,100 $ 89,325
Contracted Services	$ 75,000	N/A
Training and Education	$	$
Professional Services (arborist)	$ 3,000	$ N/A
Municipal Administrative Expenses Staff (support for tree care) Meeting Room Space	 N/A N/A	 $ $
Total Expenses	**$ 182,475**	**$ 208,425**

9. STATEMENT OF PLAN IMPLEMENTATION

The City of Margate has set the following goals and objectives in an effort to fulfill its mission for the next 5 years. These goals have been categorized by CSIP classification. The objectives and details are provided in the corresponding program descriptions.

Timeline

Page #	Goals and Objectives Description		2018	2019	2020	2021	2022
	Training		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 14	In House Educational Training Program (Semi-annual training)		Spring	Spring	Spring	Spring	Spring
	Core Training Program (Annual training)		Fall	Fall	Fall	Fall	Fall
	Ongoing Training		As resources become available				
	Tree Risk Identification (Bi-Annual training)			Fall			.Fall
	Tree Inventory Training		Winter			Winter	
	Specialized Training for Municipal Employees		As resources become available				
	Updated plan for sidewalk repair and hardscape remediation					Winter	
	Tree Ordinance Establishment		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 21	review previous projects and issues of concern and the supplemental ordinances from other communities in New Jersey		Winter	Winter	Winter	Winter	Winter
	Review new developments in ordinances related to tree care that incorporates new models for tree protection ordinances.			Winter	Winter	Winter	Winter
	Review the ANSI A-300 national standards to include specifications in the local tree ordinances.		Spring	Spring	Spring	Spring	Spring
	Review the new Licensed Tree Expert legislation to include specifications in the local tree ordinances.		Summer	Summer	Summer	Summer	Summer
	Public Education, Awareness & Outreach		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 15	Distribute and promote an updated list of recommended trees		Monthly	Monthly	Monthly	Monthly	Monthly
	Information development and distribution		Continuous	Continuous	Continuous	Continuous	Continuous
	Educational seminar		Summer	Summer	Summer	Summer	Summer
	Press Releases		Seasonal	Seasonal	Seasonal	Seasonal	Seasonal
	Letters to homeowners		Summer	Summer	Summer	Summer	Summer
	Develop and implement a community tree planting project		Spring	Spring	Spring	Spring	Spring
	Participate in city and local events		Continuous	Continuous	Continuous	Continuous	Continuous
	Arbor Day Activities		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 21	Arbor Day proclamation		Spring	Spring	Spring	Spring	Spring
	Arbor Day presentation		Spring	Spring	Spring	Spring	Spring

	Assessment/Inventory		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 22	perform a tree inventory on city streets and municipal property		Winter				Fall
	perform a tree inventory of high risk trees		Continuous	Continuous	Continuous	Continuous	Continuous
	perform an inventory of young trees				Continuous	Continuous	Continuous
					Summer	Continuous	Continuous
Page#	**Goals and Objectives Description**		**2018**	**2019**	**2020**	**2021**	**2022**
	Tree Risk Assessment Plan		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 22	Review of the Risk Management Plan		Fall	Fall	Fall	Fall	Fall
	Tree Risk Assessment		Continuous	Continuous	Continuous	Continuous	Continuous
	Removal of Hazardous Trees and Pruning for Risk Reduction		Continuous	Continuous	Continuous	Continuous	Continuous
	Storm Damage Assessment Related to Trees		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 23	Consult with Emergency Management to assist the Emergency Management administrator to implement an Emergency Management Plan.		As needed in emergency events	As needed in emergency events	As needed in emergency events	As needed in emergency events	As needed in emergency events
	Consult with Emergency Management to assist the Emergency Management administrator to implement a Disaster Dedris Plan.			Winter			
	Tree Maintenance and Removals		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 23	Training on proper pruning techniques for Public Works employees		As resources become available				
	Maintenance, Pruning Program		Continuous	Continuous	Continuous	Continuous	Continuous
	Young Tree Pruning Program				Fall		Fall
	Public tree pruning seminar				Fall		Fall
	Insect and Disease Management		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 24	Develop a comprehensive plan for the possible tree loss due to Emerald ash beetle, Bacterial leaf scorch, Japanese maple scale and Fire blight.		Summer	Summer	Summer	Summer	Summer
	Review possible treatment options for diseased significant trees		Winter	Winter	Winter	Winter	Winter
	Wildfire Protection		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 24	The City of Margate does not have any large forested areas or public areas that are susceptible to forest fire. No plans have been reviewed or developed for wildfire protection at this time.						
	Tree Planting		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 24	Site Selection		Monthly	Monthly	Monthly	Monthly	Monthly
	Tree Selection		Monthly	Monthly	Monthly	Monthly	Monthly
	Tree Planting		Fall	Fall	Fall	Fall	Fall
	Watering and After Care		As scheduled in project				

	Tree Recycling		2018	2019	2020	2021	2022
Pg 26	Brush, leaves and Christmas trees are recycled into the environment		Fall Winter	Fall Winter	Fall Winter	Fall Winter	Fall Winter
	Sidewalk Maintenance Program		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 26	Review the current sidewalk repair program to examine any new procedures or methods of reducing the conflicts between trees and sidewalks.			Winter	Winter		
Page #	**Goals and Objectives Description**		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 26	Make recommendations regarding new procedures or methods of reducing the conflicts between trees and hardscape.			Winter	Winter	Winter	Winter
	Review previous conflicts with vista, sunlight or visibility to consider modifications to tree selection in problem locations.						Summer
	Review sidewalk replacement programs and funding sources		As resources become available				
	Storm Water Management		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 27	The Public Works Department will maintain an active leaf and brush collection program		Continuous	Continuous	Continuous	Continuous	Continuous
	Maintain an active mature tree program to assist in the management of storm water runoff within the city.		Continuous	Continuous	Continuous	Continuous	Continuous
	MEMORIAL PARKWAY PLANTING PROJECT		**2018**	**2019**	**2020**	**2021**	**2022**
Pg 27	perform a preliminary survey of trees within the parkway		As resources become available				
	develop a long-term management plan for the parkway		As resources become available				

10. COMMUNITY STEWARDSHIP INCENTIVE PROGRAM

The City of Margate has set the following goals in an effort to fulfill its mission for the next 5 years. These goals have been categorized by CSIP classification. The objectives and details are provided in the corresponding program descriptions.

TREE ORDINANCE ESTABLISHMENT - CSIP # 2

Goals

The Sustainable Margate Green Team will review current city ordinances related to trees and recommend any necessary supplemental ordinances for the planting, maintenance, protection, and removal of trees that are within the jurisdiction of the City of Margate.

Existing Programs, Policies & Procedures

The City of Margate currently has many new homes being built on existing properties or complete renovations of existing homes. The expansion and protection of the tree canopy in the City of Margate needs to begin in the planning stages of development of a property and continue through to the final occupancy of the home. Mature trees on the existing lots may need to be preserved during construction. New trees on the properties may need to be specified by both species and location.

Objectives

Objective # A: The Sustainable Margate Green Team will review all of the current ordinances related to trees.

I. The Sustainable Margate Green Team will review previous issues that have caused a concern within the community and develop a list of tree planting or tree removal practices that may need more regulation.
II. The Sustainable Margate Green Team will review the supplemental ordinances from other communities in New Jersey to gather information and present it to the City Commission for possible development and revision of supplemental ordinances.

Objective # B The Sustainable Margate Green Team will review new developments in ordinances related to tree care that incorporate new models for tree protection ordinances and make recommendations to the City Commission for specifications in the local tree ordinances if needed.

Objective # D The Sustainable Margate Green Team will review the ANSI A-300 national standards and make recommendations for specifications in the local tree ordinances if needed.

Objective # E The Sustainable Margate Green Team will review the new Licensed Tree Expert legislation and make recommendations for specifications in the local tree ordinances if needed.

ARBOR DAY ACTIVITIES - CSIP # 4

Goals

The Sustainable Margate Green Team will continue to support Arbor Day activities as outlined in the Arbor Day and Tree City USA guidelines. These programs will include a proclamation by the mayor, school presentations and active support for Arbor Day.

Existing Programs, Policies, and Procedures

Arbor Day is proclaimed every year in the City of Margate in accordance with the Tree City USA standards. An article sometimes gets in the local newspaper.

Objectives

Objective # A: Arbor Day will be proclaimed by the mayor at the end of April every year in the City of Margate.

Objective # B: An Arbor Day presentation will be held in April every year at the elementary school in our community that may include: a tree planting demonstration, a tree proclamation, and the distribution of seedlings.

TREE INVENTORY PLAN - CSIP #5

Existing Programs, Policies, and Procedures

The Sustainable Margate Green Team is performing a tree inventory in an iTree database that includes trees on the right-of-way on city streets, municipal property, and available planting sites on municipal property. All tree data that is collected will be entered into the iTree database.

Goals

The Sustainable Margate Green Team will develop and maintain a tree inventory database that includes the pertinent information for decision making that will improve the quality of tree care and the development of the urban canopy in the City of Margate. The Sustainable Margate Green Team will provide information about the community forest to the administrative bodies in the City of Margate that make decisions related to safety, maintenance needs, and planting trees.

Objectives

The Sustainable Margate Green Team will provide training to ensure that committee members are adequately trained in tree inventory assessment. (This objective is described in the Training section)

Objective # A: The Sustainable Margate Green Team will perform a tree inventory in an iTree database format that includes trees on the right-of-way on city streets, municipal property, and available planting sites on municipal property.

Objective # B: The Sustainable Margate Green Team will develop a list of trees in an iTree database format that have been identified, reported or suspected of having a high risk to public safety.

Objective # C: The Sustainable Margate Green Team will develop a list of young trees in an iTree database format that will need structural pruning.

Objective # D: The Sustainable Margate Green Team will develop a list of significant trees

TREE RISK ASSESSMENT PLAN - CSIP #6

Goals

The Sustainable Margate Green Team will implement a tree risk identification and risk management program that will include detecting, evaluating, and correcting or removing high risk trees.The Goals of the Tree Risk Assessment program are:

1. To improve public safety by detecting, evaluating, and correcting or removing hazardous trees.
2. To improve public safety through proper management of the tree resource by avoiding the creation of potential. Risks caused by improper planning, planting, and maintenance of trees.
3. To prioritize the high risk areas of the community forest as outlined in "Urban Tree Risk Management: A Community Guide to Program, Design and Implementation, USDA Forest Service, Northeastern Area, (NA-TP-03-03)"
4. To reduce the risk of over mature trees in the city.
5. To actively demonstrate that the Sustainable Margate Green Team and the City have been responsible in the management responsibility of improving the safety of people and property.

Existing Programs, Policies, and Procedures

The City of Margate has a low population of large trees over 16 inches in diameter. The identification and assessment of hazardous trees has been performed on an as needed basis.

Objectives

A training session will be held to educate the workgroup, municipal employees and any interested members of the Sustainable Margate Green Team on the methods of risk assessment and hazardous tree classification that can be used. (This objective is described in the Training section under Objective D).

Objective # A The Sustainable Margate Green Team will review the tree inventory that has been performed and develop a list of all trees identified for a risk assessment review or are larger than 16 inches in diameter. A Risk Management Workgroup will be formed to review the list and implement a risk assessment.

Objective # B The Risk Management Workgroup members and municipal employees will perform a tree risk assessment. The method of assessment used will be based primarily on the method outlined in "Urban Tree Risk Management: A Community Guide to Program, Design and Implementation, USDA Forest Service, Northeastern Area, (NA-TP-03-03)"

Objective # C Removal of Hazardous Trees and Pruning for Risk Reduction
Trees that present a severe Risk or trees that have been identified for immediate removal in the risk assessment will be addressed and contracted separately. Trees that require removal or pruning for Risk reduction will be grouped according to recommendations by the workgroup and contracted to a tree service company.

STORM DAMAGE ASSESSMENT RELATED TO TREES - CSIP #7

Existing Programs, Policies, and Procedures

After a severe weather event the Public Works Department and Emergency Management assess the damage within the city and work with representatives of the Public Works Department and private contractors to address all of the damage and respond immediately. No changes are recommended for this process at this time

Goals

The Public Works Department and Emergency Management will continue with the existing storm damage assessment procedures and develop additional procedures for extreme storm damage situations.

Objectives

Objective # A The Sustainable Margate Green Team will review any new information related to tree removal in emergency situations and provide the information to the Emergency Management coordinator to implement an Emergency Management Plan.

Objective # B The Sustainable Margate Green Team will cooperate with the Public Works Department review the NJ DEP 'DISASTER DEBRIS MANAGEMENT PLANNING TOOL KIT FOR NEW JERSEY MUNICIPALITIES' to develop an Emergency Debris Management Plan and secure a location for approval as a temporary staging area for vegetative debris.

TREE MAINTENANCE and REMOVALS – CSIP #8

Goals

The Sustainable Margate Green Team will support the Public Works Department and the municipal administration to continue a tree maintenance program that will maximizes public safety relative to public trees, maintain a tree canopy throughout the City of Margate. The Sustainable Margate Green Team will provide information and resources for the city to maintain a balance between long term development of the community forest and the limitations of available funds or resources for mature tree care.

Existing Programs, Policies, and Procedures

The Public Works Department only performs a limited amount of tree pruning or removal. The department has chain saws and pruning equipment but does not has does have a chipper or climbing equipment. All major tree pruning tree pruning projects are contracted to local tree service companies.
Most calls for tree related issues are initially reported to the police department and referred to the Public Works Department. The Public Works Department performs most clearance pruning for street trees and cleanup of fallen trees and branches.
The amount of time needed for Public Works employees to perform tree maintenance will increase as the City of Margate increases the size of the tree population and the level of tree care tree on municipal property.

Objectives

Objective # A: The Sustainable Margate Green Team will encourage proper pruning practices on municipal property by providing resource information and encouragement for Public Works employees to attain training on proper pruning techniques for both mature tree pruning and young tree pruning.

Objective # B: The Public Works Department will implement a tree pruning program that will focus on correcting potential tree obstruction problems on street trees.

Objective # C: The Public Works Department will implement a young tree pruning program that will focus on correcting potential tree maintenance problems on young trees before they become tree maintenance problems on mature trees.

Objective # D: The Sustainable Margate Green Team will encourage proper pruning practices on private property through an active public awareness program.

INSECT and DISEASE MANAGEMENT - CSIP #9

Goals

The Sustainable Margate Green Team will monitor the community forest to identify and control insect and tree disease problems such as Japanese maple scale, Southern pine beetle, and Bacterial leaf scorch.

Existing Programs, Policies, and Procedures

The need for a proactive insect and disease program has been limited in the past. However, the need has increased and will be addressed.

Objectives

Objective # A The Sustainable Margate Green Team will develop a comprehensive plan for the possible tree loss due to Emerald ash beetle, Bacterial leaf scorch, Japanese maple scale and Fire blight.

Objective # B The Sustainable Margate Green Team will review possible treatment options for diseased significant trees within the city that can be treated.

WILDFIRE PROTECTION - CSIP #10

The City of Margate does not have any large forested areas or public areas that are susceptible to forest fire. The Sustainable Margate Green Team has no jurisdiction over the wetland areas or other open areas that may be susceptible to minor brush fires. No plans have been reviewed or developed for wildfire protection at this time.

TREE PLANTING PLAN - CSIP #11

Goals

A primary goal of the Sustainable Margate Green Team is to increase the tree population with a proactive tree-planting program. The planting sites within the city are limited and the planting strips along the city streets are narrow. A planting program will need to match the specific tree to the specific planting area by factoring in all of the planting parameters. This tree planting effort will re-establish the tree canopy over the city so that the natural and aesthetic atmosphere of Margate can be preserved. Selecting, planting and maintain trees in the planting strip between the sidewalk and curb (Governor's Strip) is a high priority and will receive special attention.

Existing Programs, Policies & Procedures

The City of Margate has a proactive tree planting program that has been increasing the tree population within the city. However, many mature trees have been removed in the redevelopment of older lots.

Objectives

Objective # A: Site Selection

The Sustainable Margate Green Team will review all current information on the tree population in the City of Margate, open planting areas, and available resources to determine the optimum number of trees to be planted for the current season.

I. The Sustainable Margate Green Team will identify possible planting areas on the governor's strip in the front of residential, municipal and commercial properties.
II. The property owners will be contacted to inform them that a potential tree planting location is in the front of their property. The planting location will only be chosen if the property owner will agree to have a tree planted and sign an agreement that they will water the tree for 2 years after the planting (note: a watering plan is a requirement for state funded tree planting projects).
III. The Green Team will identify possible planting areas on municipal properties.

Objective #B: Tree Selection

The Sustainable Margate Green Team will make recommendations to update and modify the 'City of Margate, Land Use, 175 Attachment 2, Appendix B, Plant Species List' and use the approved list for all recommendations for tree planting.

I. The Green Team will review the planting site parameters and recommend adding tree selection parameters that are appropriate for the planting space, overhead clearance, traffic tolerance and possible salt tolerance. A site parameter may be added for selecting trees near sewer lines to reduce the sewer/root conflicts.
II. The Green Team will review recommended trees that that add to the diversity of the tree population in the City of Margate. Special consideration will be given to native trees and salt tolerant trees.
III. The Green Team will incorporate all information, guidelines and policies that have been developed in the 'Hardscape, Vista and Structural Boundaries' section of this management plan into any decisions for tree selection.
IV.

Objective #C: Tree Planting

I. The Sustainable Margate Green Team will review all current tree planting recommendations and guidelines to ensure that the most current tree planting standards will be used for all tree planting that is performed for the City of Margate.
II. The Green Team will provide information and assistance to the City Building Inspector, Public Works and Zoning board to ensure that all trees planted for the City of Margate have been planted properly.
III. The Green Team will cooperate with Public Works, the Planning board and the Construction Department to oversee the planting process.
IV. The Green Team will investigate new and specialized planting methods to establish large mature trees in difficult planting locations for significant tree locations in high visibility areas.
V. The Green Team will continue to cooperate with the Planning Board by reviewing new projects and providing recommendations.

Objective #D: Watering and After Care

I. The Sustainable Margate Green Team will follow up and ensure that all trees are watered
II. The Green Team will review and update the list of recommended trees to select trees that will be beneficial, sustainable, and appropriate for their location.
III. The Green Team will add new trees to the tree inventory database.

TREE RECYCLING - CSIP #12

Existing Programs, Policies & Procedures

The City of Margate has a leaf recycling program for recycling. Brush, leaves and Christmas trees are recycled into the environment. The Public Works Department is responsible for the recycling program for recycling leaves. The city also has a tree recycling program for recycling trees that are left by the curb. All material is recycled back into the environment by the ACMUA.

Goals

The Sustainable Margate Green Team will continue to maintain an effective tree, brush and leaf recycling program.

Objectives

Objective # A Brush, leaves and Christmas trees are collected by the Public Works Department and recycled into the environment by the ACMUA. No changes to this program are recommended.

SIDEWALK MAINTENANCE PROGRAM - CSIP #13

Goals

The Sustainable Margate Green Team may assist the Margate City Commission, the Planning and Zoning Board or the City Engineer to develop an updated plan for sidewalk repair and hardscape remediation. The plan may allow the city to

increase the tree canopy over the city streets while reducing or limiting the damage and conflict to sidewalks and hardscape. This plan may include modern methods of installing concrete sidewalks near trees, new sidewalk materials such as specialized pavers and rubber sidewalk material, and methods of repair.

Existing Programs, Policies & Procedures

The Code Enforcement Department is responsible for the oversight of sidewalk repair of conflict issues. Property owners are responsible for the repair of sidewalks on their property. The Public works Department makes some repairs to sidewalks on municipal property. Large repair or replacement projects are contracted to professional concrete companies.

Objectives

Objective # A The Sustainable Margate Green Team will review the current sidewalk repair program to examine any new procedures or methods of reducing the conflicts between trees and sidewalks. The Sustainable Margate Green Team will gather information on rubbers sidewalk materials and implement new practices that are appropriate.

Objective # B: The Sustainable Margate Green Team will review tree conflicts caused by mature trees near sidewalks, curbs and driveways. The Green Team will make recommendations for methods of preservation that are within budgetary limits and hardscape limitations.

Objective # C: The Sustainable Margate Green Team will review previous conflicts with vista, sunlight or visibility to consider modifications to tree selection in problem locations.

Objective #D: The Sustainable Margate Green Team will review sidewalk replacement programs that provide funding or cost sharing with homeowners. The committee will gather information on projects and funding that have been implemented in other communities when the damage is caused by municipal trees. Multiple methods of curving and ramping the sidewalk can be incorporated into the new sidewalk design.

STORM WATER MANAGEMENT - CSIP # 14

Goals

The Sustainable Margate Green Team will maintain an active leaf collection program and mature tree program to assist in the management of storm water runoff within the city.

Existing Programs, Policies & Procedures

The Sustainable Margate Green Team will continue to make the long term maintenance of mature trees a priority. Mature trees in key locations reduce the volume of surface runoff and groundwater.
The City of Margate has a leaf recycling program for recycling. Brush, leaves and Christmas trees are recycled into the environment by the ACMUA. The Public Works Department is responsible for the recycling program for recycling leaves. The city also has a tree recycling program for recycling trees that are left by the curb. All material is recycled back into the environment.

Objectives

Objective # A The Public Works Department will maintain an active leaf collection program. Leaves are removed from the city streets and recycled into the environment by the ACMUA.

Objective # B The Sustainable Margate Green Team will maintain an active mature tree program to assist in the management of storm water runoff within the city. (This objective is described in the Mature Tree Care program section, CSIP #15, under Objective # B)

Proposed MEMORIAL PARKWAY PLANTING PROJECT - CSIP # 15

Overview

The City of Margate recognizes that the Parkway District is a unique area in the City that offers a combination of green space and historically significant dwellings and structures. The Parkway is listed as one of the city's historic resources in the City of Margate Master Plan.

The City Master Plan defines the Ventnor Avenue Parkway Section as the section of the City, along Ventnor Avenue from Jerome Avenue to Benson Avenue. The parkway section features bridal paths with large landscape island with well-kept landscaping and ornate fountains. The City's Parkway section is bordered by large houses and a church. The houses are "large and examples of English Tutor, Spanish Colonial, Dutch Colonial and other styles typical of the period houses." An objective listed in the master plan is to protect and preserve the parkway sections landscaping islands and fountains to the maximum extent practicable, and to protect and preserve the historically significant homes that border the Parkway corridor to the maximum extent practicable.

Goals

The Sustainable Margate Green Team will assist the City of Margate to develop a long term plan for the Memorial Parkway

Existing Programs, Policies & Procedures

The City of Margate has an extensive maintenance program for the Memorial Parkway. Currently plans have been reviewed or considered for various renovation projects within the parkway area.

Objectives

Objective # A The Sustainable Margate Green Team will perform a preliminary survey of all of the trees within the Margate Parkway

Objective # B The City of Margate will develop a long-term management plan for the Memorial Parkway. Tree maintenance, tree planting and tree removal may be included into the project.

COMMUNITY STEWARDSHIP INCENTIVE PROGRAM INDEX

The following is a summary of how and where each of the thirteen CSIP practices is addressed in this Community Forestry Management Plan.

CSIP # 1 Training
This CSIP practice is addressed in the Training section on page 13

CSIP # 2 Community Forestry Ordinance Establishment
This CSIP practice is addressed in the Ordinance Establishment section on page 21

CSIP # 3 Public Education and Awareness
This CSIP practice is addressed in the Public Education section on page 15

CSIP # 4 Arbor Day Activities
This CSIP practice is addressed in the Arbor Day Activities section on page 21

CSIP # 5 Assessment/ Inventory
This CSIP practice is addressed in the Tree Inventory Plan section on page 22

CSIP # 6 Tree Hazard Identification Plan
This CSIP practice is addressed in the Tree Hazard Assessment and Risk Management Plan section on page 22

CSIP # 7 Storm Damage Assessment
This CSIP is addressed in the Storm Damage Assessment section on page 23

CSIP # 8 Tree Maintenance & Removals
This CSIP practice is addressed in the Tree Maintenance section on page 23

CSIP # 9 Insect & Disease Management
This CSIP practice is addressed in the Insect & Disease Management section on page 24

CSIP # 10 Wildfire Protection
This CSIP is addressed in the Wildfire Protection section on page 24

CSIP # 11 Tree Planting
This CSIP practice is addressed in the Tree Planting Implementation Plan section on page 24

CSIP # 12 Tree Recycling
This CSIP is addressed in the Tree Recycling section on page 26

CSIP # 13 Sidewalk Maintenance Program
This CSIP is addressed in the Sidewalk Maintenance Program section on page 26

CSIP # 14 Storm Water Management
This CSIP is addressed in the Storm Water Management section on page 27

CSIP # 15 Other –Memorial Parkway Planting Project
This CSIP practice is addressed in the Memorial Parkway Planting Project section on page 27

ATTACHMENTS

Margate City Ordinances

Land Use § 175-26 **D.** Landscaping.

(1)

All residential lots shall have a minimum of 35% of the lot landscaped. All areas not occupied by buildings, parking areas, patios, walkways and/or any other impervious surface shall be suitably landscaped. No landscaping shall interfere with required sight triangles. Such landscaping minimum of 35% may be reduced to the minimum extent required to accommodate stairs, steps, ADA-compliant ramps and related elements providing access to the first floor necessary to conform with lowest floor requirements. In no case, however, shall such percentage be lower than 30% of the lot. Until such time as this chapter is amended to conform with final FIRM mapping and related regulations, determination of "the extent required" shall be made by the BFE Design Committee or the Planning Board, as the case may be, in accordance with § **175-10** herein.
[Amended 1-31-2013 by Ord. No. 01-2013; 8-15-2013 by Ord. No. 17-2013]

(2)

Deciduous trees shall have a caliper of at least 1 3/4 inches and be eight feet to 10 feet in height at planting, and evergreen trees shall be at least six feet tall. All trees shall be balled and burlapped and be of specimen quality as established by the American Association of Nurserymen.

[Amended 4-3-2008 by Ord. No. 12-2008]

(3)

For all original construction or enlargement of detached housing, two trees shall be planted per frontage. For multifamily dwellings one tree per unit shall be planted. For duplex units, four trees shall be planted. A suggested list of tree species is detailed at the end of this chapter.[1] Required trees shall be located only in the front of the house and shall be no closer than 25 feet to the street corners. The planting of trees in the beach block shall be prohibited within the front yard setback area.

[Amended 10-4-2012 by Ord. No. 16-2012; 5-5-2016 by Ord. No. 09-2016]

[1]

Editor's Note: See Appendix B, Plant Species List, included as an attachment to this chapter.

(5)

Any landscaping which, within two years of planting, dies for any reason shall be replaced by the developer(s) or by the current owner at their sole expense.

(6)

In all single-family and duplex districts, grass, or permeable decorative pavers, at the homeowner's option, shall be maintained between the sidewalk line and the curbline. All applications for development shall provide this grass strip or permeable decorative paver strip if previously removed. If the permeable decorative paver option is exercised, and if the required front street trees are placed in the curb strip, the cut-out for the trees shall be a minimum of three feet wide by the width of the strip.

[Amended 4-3-2008 by Ord. No. 12-2008]

(7)

The following principles shall be considered:

(a)

Landscaping shall be located to provide for climate control.

(b)

Landscaping shall be used to accent and complement buildings.

(c)

Landscaping shall be provided in public areas, parking areas, recreation sites and adjacent to buildings.

(d)

Vines and climbing plants may be considered for large expanses of wall.

(e)

Massing trees may be considered at critical points.

(f)

Smaller trees shall be used on narrow streets.

(g)

Ground cover shall be used to prevent erosion.

(h)

A variety and mixture of landscaping shall be provided. Consideration shall be given to susceptibility to disease, colors, season, textures, shapes, blossom and foliage in selecting species.

(i)

Local soil conditions and water availability shall be considered in the choice of landscaping.

(j)

Existing trees located within 10 feet of any street right-of-way shall be maintained unless shown to be removed as part of an approved plan. The existing grade within that space shall not be disturbed without such approval.

(k)

Entrances to nonresidential lots shall be given special landscaping treatment.

(l)

The impact of any proposed landscaping plan at various time intervals shall be considered. Shrubs may grow and eventually block sight distances. Foundation plants may block out buildings.

(m)

Existing large trees (more than six-inch caliper) shall be saved by not varying the grade around the trees by more than six to 12 inches, by construction of tree wells and by erecting protective fences.

(n)

Landscaping in parking areas shall be provided in accordance with this article.

(o)

Impervious materials shall not be used in any landscape area. Weed-retardant mulch, porous nonwoven synthetic landscape fabric or other materials shall be used.

(p)

Vegetative ground cover is encouraged.

(8)

In commercial districts, a minimum of one tree shall be planted for each 50 feet of street frontage.

(9)

Stone mulch may be used in landscaping beds if less than 15% of the front landscaping area and not more than 10% of the total lot landscaping.

(10)

Any new plantings of bamboo are prohibited. For existing bamboo plantings, the homeowner is responsible for growth that may intrude into the neighbor's property or harm or destroy the neighbor's structures or site improvements. Code Enforcement may require complete or partial removal of all bamboo stands if the intrusion recurs or harm/destruction occurs.

[Added 9-24-2006 by Ord. No. 2006-26]

Margate City Plant Species List

175 Attachment 2

City of Margate City

Appendix B

Plant Species List The following is a list of recommended plant materials. Many of these plants have proved to be durable selections under the most adverse urban conditions in the northeast regions. Consequently, they have been assembled in an effort to provide the property owner with a flexible plant palette. This palette can in most situations include various combinations of the subsequently listed categories of plants (e.g., Red Maples as street trees with Sweetbay Magnolia, P.J.M. Rhododendron, English Yew and Pachysandra as immediate foundation plantings around the building).

Large Trees (Deciduous)

Red Maple species and cultivars (e.g., October Glory, Autumn Sunset), a native, wet-site-tolerant fastgrowing tree with very small but profuse flowers in early spring and brilliant red fall color.

Green Ash "Patmore", an extremely hardy tree that will withstand some of the most difficult planting sites. Dark green foliage, strong central leader and seedless.

Aristocrat Pear, more open and angled branching than other selections, with strong central leader, white flowers, purple or red to orange fall color.

Greenspire Littleleaf Linden, a highly valued street tree with slightly heart-shaped leaves, with small inconspicuous but fragrant flowers in early summer. They grab into a regular narrow oval form.

Halka Honeylocust, full rounded head, finely textured leaves and excellent yellow fall color.

Japanese Pagoda Tree, thrives under exceptionally harsh city conditions developing a large oval crown of glossy dark green foliage bearing large pyramidal trusses of fragrant white pea-shaped flowers in July and August.

Chinese Elm, grows well in unfavorable urban sites, vigorous growing with broad spreading head and uniform vase shape.

Bloodgood Variety London Planetree, a hardy street tree with peeling, flaking bark and ball-like fruit.

Poplar Hybrids (White and Silver), fast growing and tolerant of severe urban conditions with silvery undersides of leaves.
Sweetgum, a pyramidal-shaped tree with brilliant colorful star-shaped leaves in the fall and unusual shaped fruit.

Smaller Trees (Under utility wires) (Deciduous)
Kwanzan Cherry, a hardy flowering cherry with a straight trunk and good top. Branches begin at five or six feet from ground with pink flowers.
Fruitless Mulberry, fruitless variety of the mulberry with wide dark leaves withstanding the severest of urban conditions.
Village Green Zelkova, a rapidly growing tree with the vase shaped branching habit of our native American Elm.
Hedge Maple, a compact, low-growing tree with corky bark and distinctive, fine-textured foliage.
Hophornbeam, versatile native small tree, good for urban sites in sun or shade. Fall color varies from yellow or orange and bright red.

Ornamental Trees (Deciduous)
Sweetbay Magnolia, fragrant creamy white flowers in May. Nearly evergreen.
Shadblow Serviceberry, early white flowers, edible small red fruit. Very popular as a flowering clump tree. Fall color varies from orange to red.
River Birch, large triangular dark green leaves and showy pinkish-white peeling bark. Low branched, singly or multi stemmed.
Crabapple Species, small flowering ornamental tree with apple-like fruits.
Lilac, heart-shaped leaves with fragrant flowers and brown fruit capsules, really a shrub.
Washington Hawthorne, glossy green foliage and long-lasting scarlet fruit, with white flowers in June.

Evergreen Trees
Eastern Red Cedar, a very versatile native evergreen; tolerates drought, poor soils and seashore conditions.
American Holly, smooth gray bark, red fruits and dull green foliage; protect from prevailing winds.
Japanese Black Pine, a dark green pine of irregular, open habit. The best seashore conifer for its remarkable salt tolerance and picturesque form.
Colorado Spruce, grayish blue needles developing into a dense narrow pyramid-shaped evergreen.
Nellie Stevens Holly, dark green glossy evergreen foliage with large red fruit; very hardy.
American Arborvitae, dark green, compact and symmetrical in form. The best of the taller arborvitae.
Leyland Cypress, fast-growing, soft-textured feathery foliage, grayish-green color.
Hollywood Juniper, light-green-colored foliage, columnar-shaped and extremely salt tolerant.

Shrubs (Large/Deciduous)
Bayberry, a widely adaptable plant with decorative gray berries and glossy aromatic foliage; highly salt tolerant and native to coastal and seashore areas.
Sand Cherry, beautiful deep burgundy leaves all summer. White flowers in spring. Very hardy.
Beach Plum, excellent native seashore plant with blue fruits in the fall.
Hydrangea
Peegee, bears enormous trusses of white flowers in August, which later turn to deep pink.
Oakleaf, leaves turn a deep red-bronze.
Rugosa Rose, rich green foliage, large red fruits, pink flowers June to September; good seaside plant.
Blackhaw Viburnum, white flowers, blue-black fruits. One of the best of all native plants for a dense hedge.
Arrow Wood Viburnum, excellent in wet soil on roadside and in shore areas. Purple and red during autumn.
Compact Winged Euonymus, excellent hedge with corky bark and extraordinary crimson red fall color.
Chockberry, native plant with clusters of small white flowers in May, glossy red berries persisting into winter. Brilliant red fall color.
Fragrant Sumac, clusters of small yellow flowers in April and May followed by coral-red fruits in June. Aromatic foliage, colorful in fall.
Witchhazel, a native shrub with pale yellow to orange fragrant flowers blooming in late fall.
Clethera, a native shrub with fragrant white flowers from July to September. Fall color is buttery yellow; growing well in partial to full shade.

Shrubs (Small/Deciduous)

Memorial Rose (Wichuraiana), prostrate trailing plant. Rich shiny foliage, almost evergreen. White flowers, late blooming. Excellent ground cover.
Cotoneaster Species, rich small box-like foliage, abundant bright red fruit.
Anthony Waterer Spirea, rose red flowers all summer, good fall foliage color.
Bush Cinquefoil, large pure white flowers standing out against blue-green foliage.
Glossy Abelia, evergreen. Flowers white-tinted lilac. Blooms all summer.

Shrubs (Large/Evergreen)
Inkberry Holly, native seashore planting with evergreen dark shiny leaves which become purplish in the winter.
Japanese Holly, convexed foliage, dark glossy green, growing rapidly broader than taller.
Densiformis Yew, the finest dense spreading yew. Fast-growing and compact.
P.J.M. Rhododendron, the most reliable, cold-hardy evergreen rhododendron, with dark green foliage and small bright lavender to pink flowers in mid to late April.
Chinese Holly, dark green glossy evergreen foliage with large red fruit; very hardy.
Blue Hollies, dark blue-green foliage, good berries.
Cherry Laurel, vigorous shrub with shiny, evergreen leaves, leathery in texture and able to withstand heavy pruning.
Mountain Laurel, a beautiful native broadleaf evergreen with large clusters of pink and white flowers in mid-June.

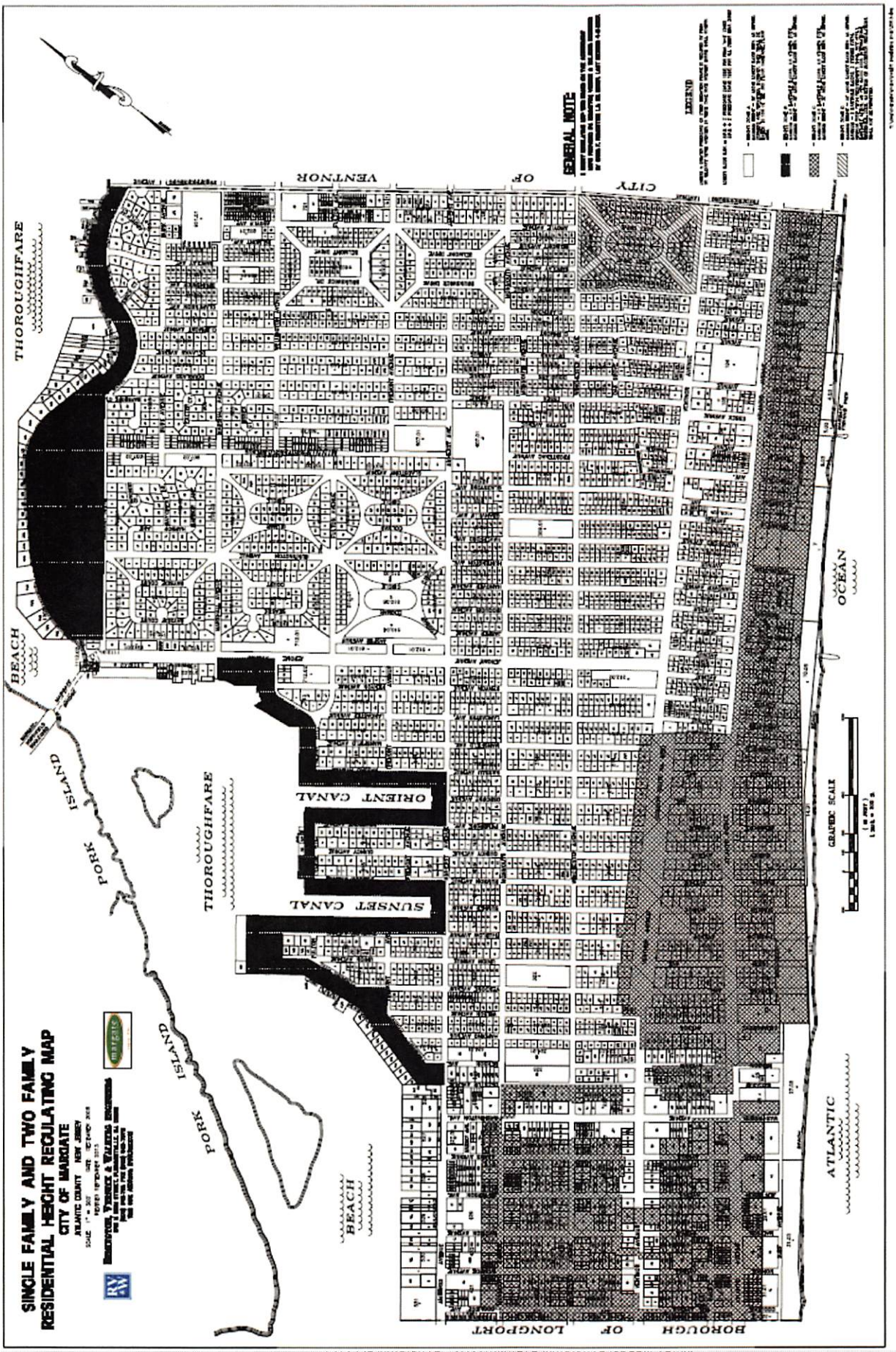
Shrubs (Small/Evergreen)
Kurume Azaleas, highly popular evergreen spring-flowering shrubs with a profusion of blooms from April to June.
Leucothoe, useful native broadleaf evergreen; lower spreading habit; tolerant of shade. A perfect companion plant for azaleas and rhododendrons.
Mugho Pine, dwarf and slow growing. Forms a round-topped clump. Useful for rock garden plantings.
Bayberry, rugged low hedge plant.
Skimmia, thick and heavy spreading, bright yellow green foliage requiring shade for growth.
Gaultheria, lustrous evergreen leaves with bell-shaped white flowers growing as a ground cover.
English Yew, a very low-growing dense-spreading variety, useful for foundation planting. Will thrive in shade.

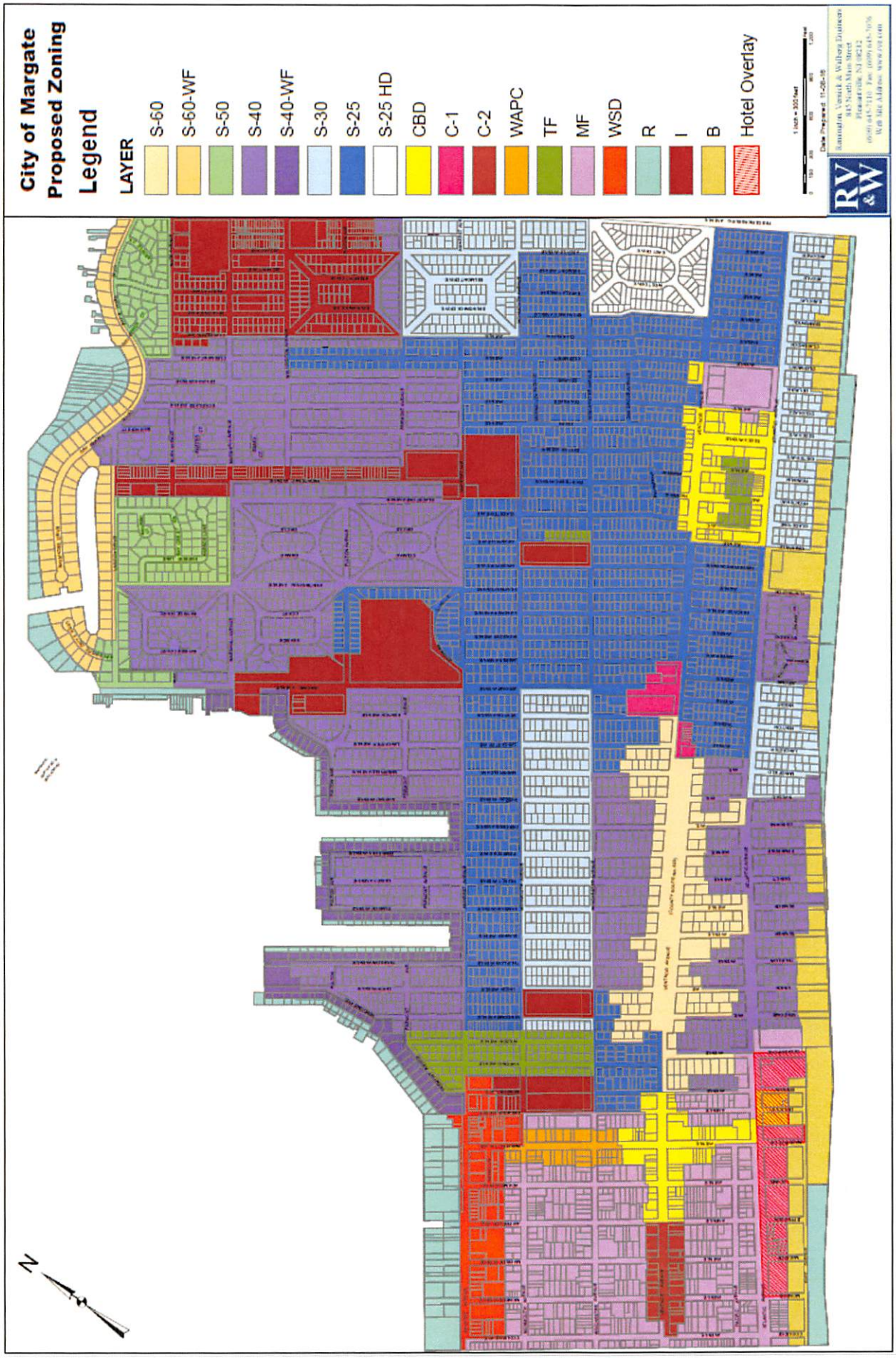
Sustainable Margate Green Team Events

Tree Inventory of the City of Margate

Margate City Map

City of Margate
Proposed Zoning
Legend
LAYER
S-60
S-60-WF
S-50
S-40
S-40-WF
S-30
S-25
S-25 HD
CBD
C-1
C-2
WAPC
TF
MF
WSD
R
I
B
Hotel Overlay
RV &W


SINGLE FAMILY AND TWO FAMILY
RESIDENTIAL HEIGHT REGULATING MAP
CITY OF MARGATE
GENERAL NOTE
LEGEND
VENTNOR
CITY
OF
THOROUGHFARE
BEACH
ISLAND
PORK
ORIENT CANAL
SUNSET CANAL
OCEAN
ATLANTIC
BOROUGH
OF
LONGPORT
GRAPHIC SCALE


City of Margate
Proposed Zoning
Legend
LAYER
S-60
S-60-WF
S-50
S-40
S-40-WF
S-30
S-25
S-25 HD
CBD
C-1
C-2
WAPC
TF
MF
WSD
R
I
B
Hotel Overlay
RV&W