

PROJECT SITE GUIDE

- PHASE I - Public Parking Lots and CBD Zone
- PHASE II - Beaches and Parks with Green Infrastructure Improvements
- PHASE III - Sandy Hook Bay Bluff Slope





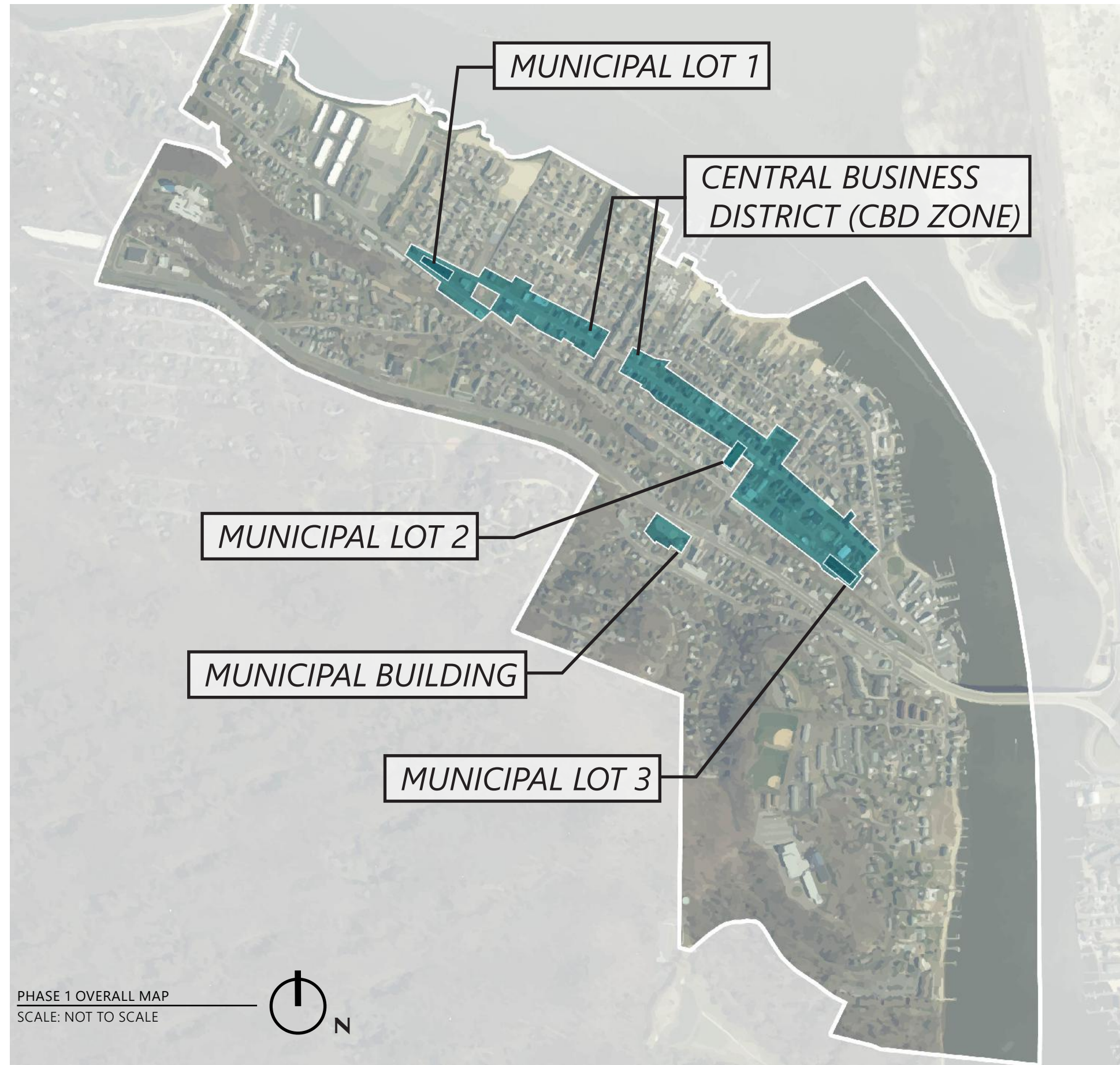
# Phase One | Public Parking Lots, Central Business District (CBD Zone)





PROJECT KEY

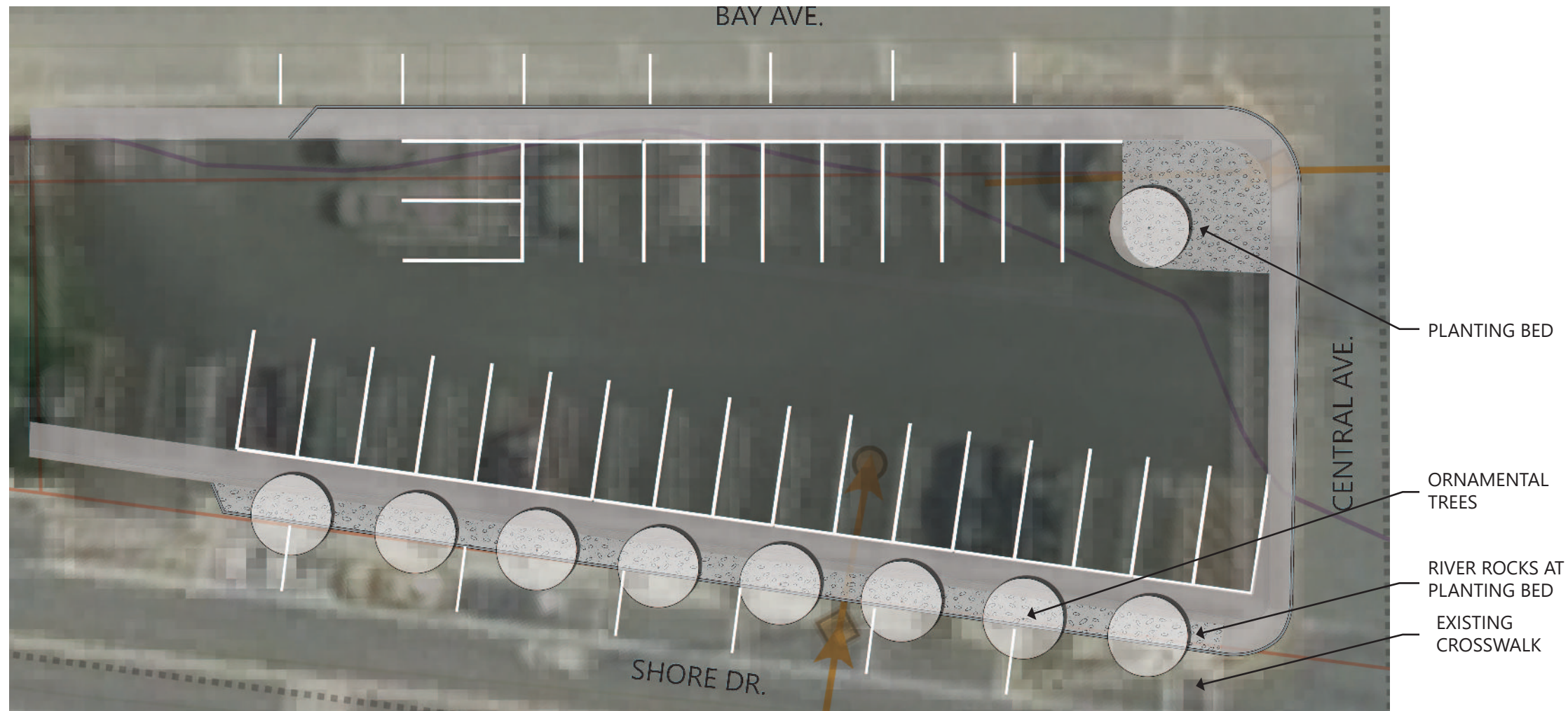
- MUNICIPAL LOT 1
- MUNICIPAL LOT 2
- MUNICIPAL LOT 3
- MUNICIPAL COMPLEX
- CENTRAL BUSINESS DISTRICT (CBD ZONE)





## PHASE I

MUNICIPAL LOT 1  
MUNICIPAL LOT 2  
MUNICIPAL LOT 3  
MUNICIPAL COMPLEX  
CENTRAL BUSINESS DISTRICT (CBD ZONE)



**SITE PLAN- EXISTING CONDITIONS**  
SCALE: 1"=20'



### EXISTING CONDITIONS INVENTORY

- PUBLIC PARKING FOR 29 SPACES WITH TO VEHICULAR INGRESS/EGRESS POINTS
- EXISTING TREES AND PLANTS-
  - ORNAMENTAL TREES (QTY. 8) ALONG SHORE DR., SEE 'PHOTO A'
  - ORNAMENTAL TREE AND SHRUBS IN BED ALONG BAY AVE., SEE 'PHOTO B'
- LARGE RIVER ROCKS WITHIN PLANTING BEDS
- LIGHTING- ONLY FROM EXISTING (COBRA HEAD) STREET LIGHTS
- PEDESTRIAN- CROSSWALK ACROSS SHORE DR. (QTY. 1), SEE 'GRAPHIC INVENTORY' SKETCH
- SIGNAGE- CROSSWALK INDICATION AND MUNICIPAL PARKING LOT SITE AND SHORE DR. AND CENTRAL AVE. INTERSECTION, SEE 'GRAPHIC INVENTORY' SKETCH

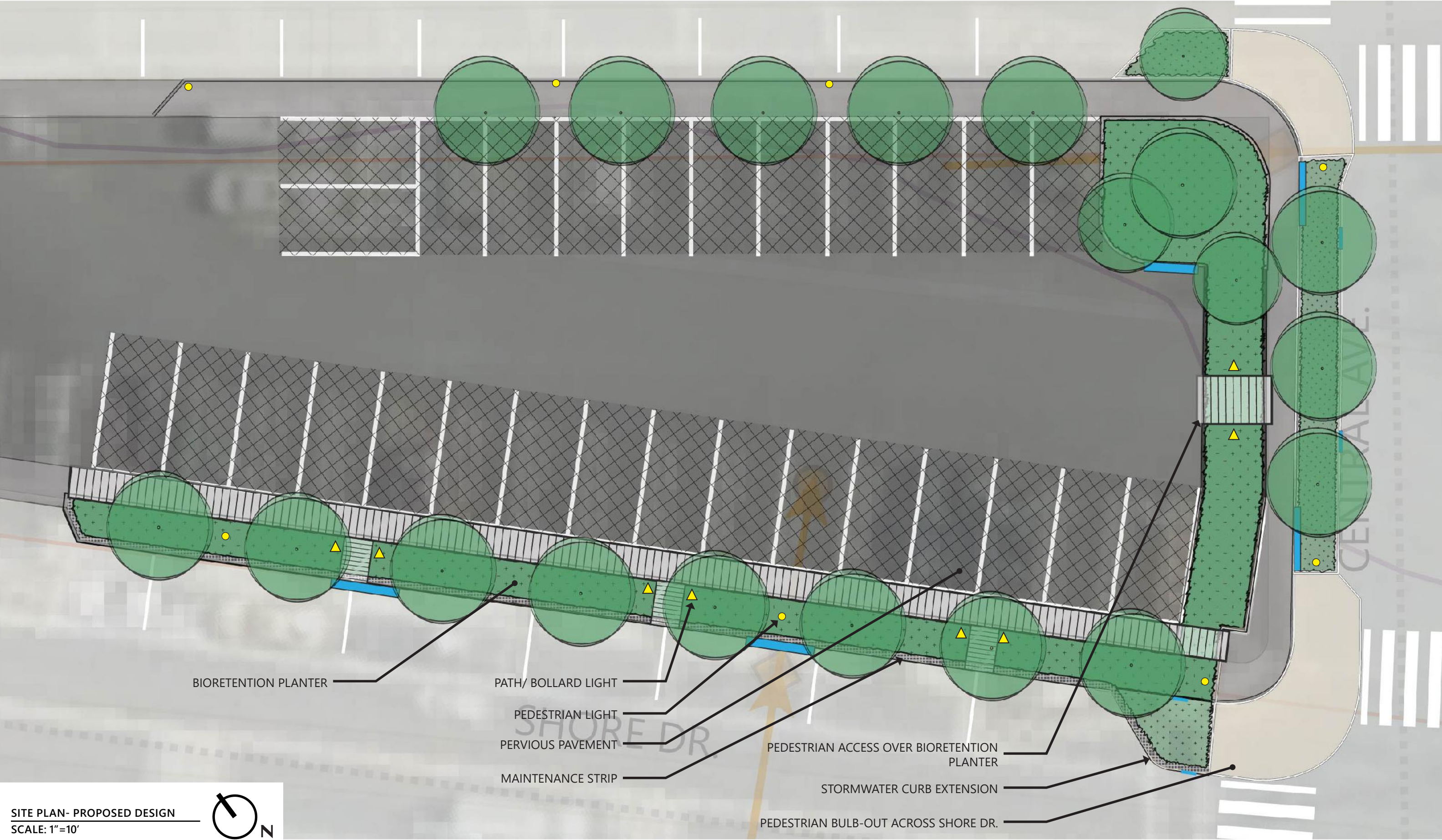
### EXISTING CONDITIONS ANALYSIS

- PARKING LOT HAS POTENTIAL TO BE USED HEAVILY, AMOUNT OF SPACES SHOULD NOT DECREASE.
- PLANTING- EXISTING TREES CAN REMAIN, OR SUBSTITUTE OTHER HEIGHT-APPROPRIATE TREES.
- RIVER ROCKS SHOULD BE REMOVED, THEY PROVIDE NO BENEFIT
- LIGHTING- SHOULD BE LIGHTED FOR PEDESTRIANS AS WELL AS FOR VEHICLES
- SIGNAGE- ADD WAYFINDING AND DIRECTIONAL SIGNAGE FOR PEDESTRIANS AND USERS OF THE PARKING LOT
- GREEN INFRASTRUCTURE- BIORETENTION PLANTERS CAN BE ADDED TO THE PLANTING BED ALONG SHORE DR., PVIOUS PAVEMENT CAN BE ADDED TO ON-STREET PARKING STALLS, AS WELL AS WITHIN THE PARKING LOT.

GRAPHIC INVENTORY AT MUNICIPAL LOT







SITE PLAN- PROPOSED DESIGN  
SCALE: 1"=10'



GREEN INFRASTRUCTURE  
ELEMENTS



MAINTENANCE STRIP AND CURB CUTS



BIORETENTION PLANTER



PEDESTRIAN ACCESS OVER BIORETENTION PLANTER



STORMWATER CURB EXTENSION



PERVIOUS PAVEMENT - (POROUS ASPHALT)

SITE IMPROVEMENTS  
SIGNAGE

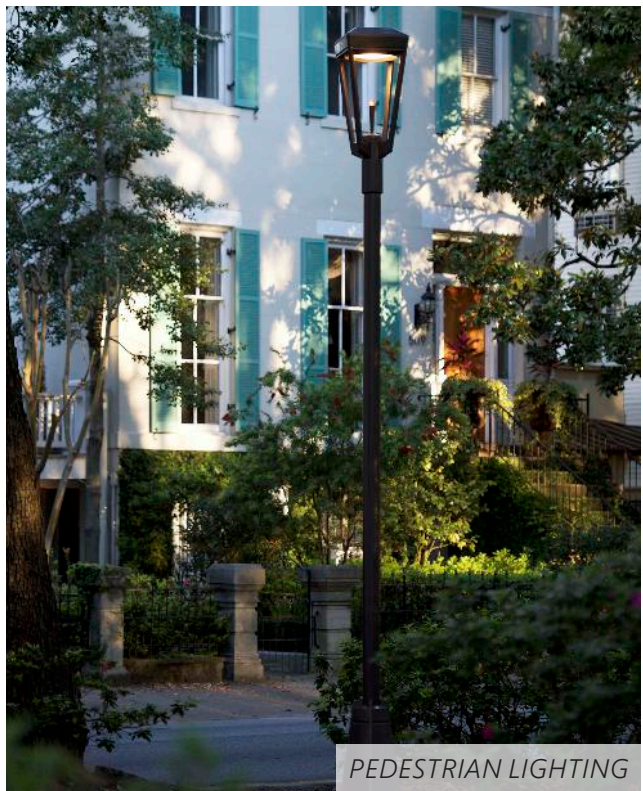


WAYFINDING / DIRECTIONAL



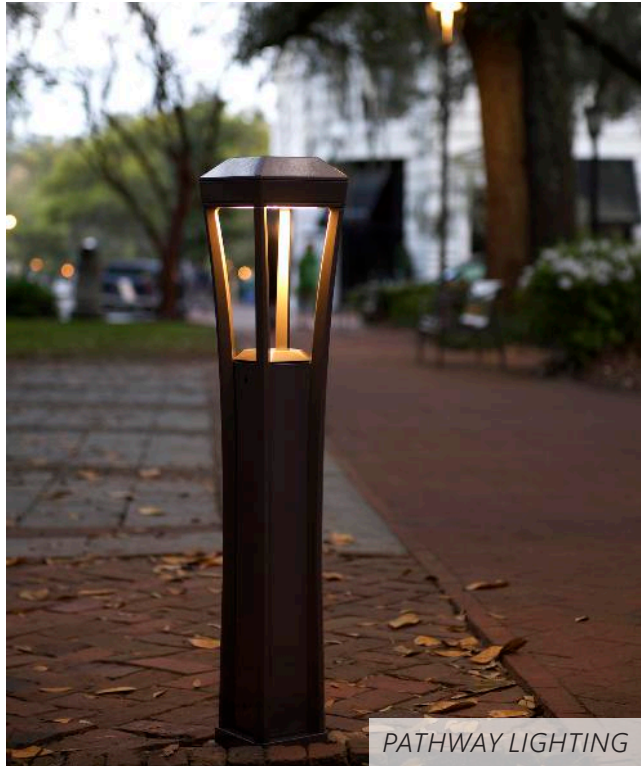
WAYFINDING

SITE IMPROVEMENTS  
LIGHTING



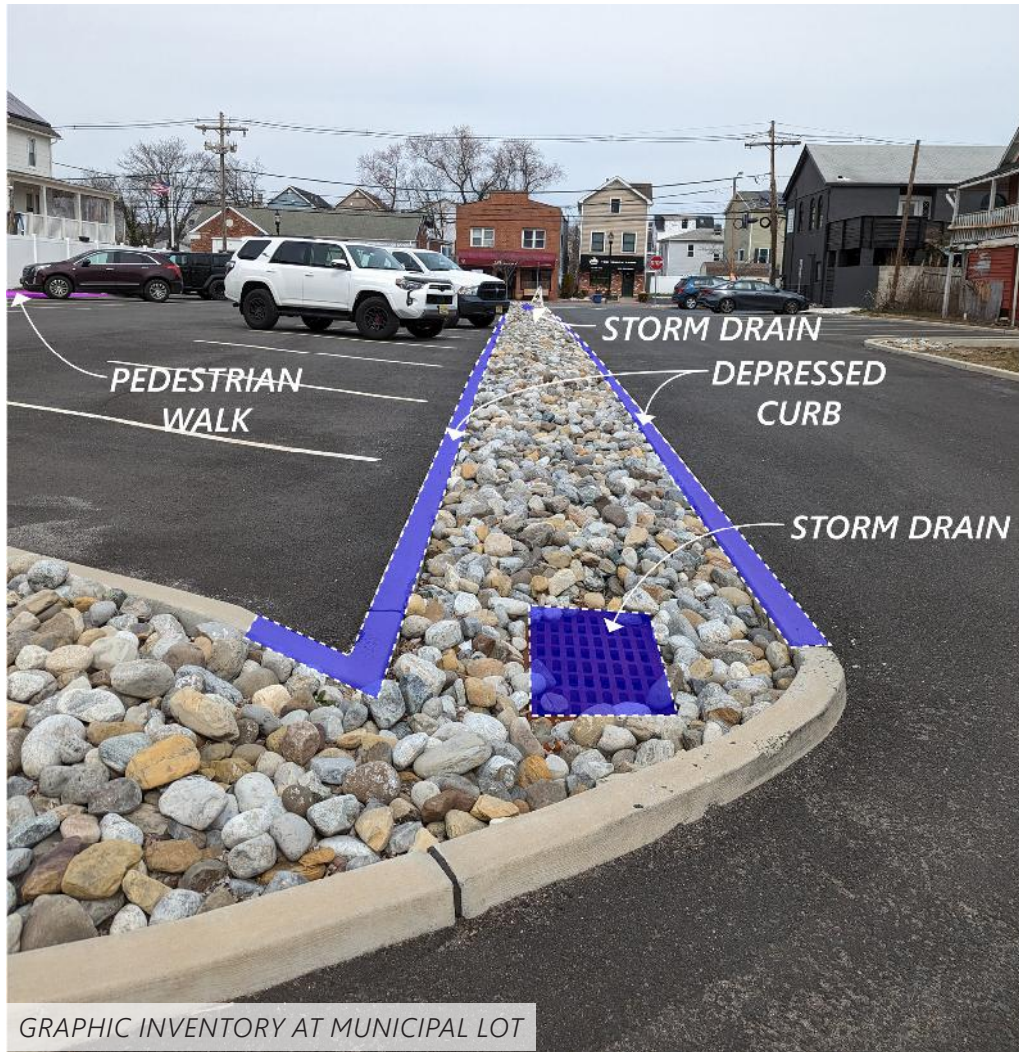
PEDESTRIAN LIGHTING

- PEDESTRIAN LIGHTING- STYLE: ASHBURY AREA LIGHT'; MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED
- PATHWAY LIGHTING- STYLE: ASHBURY PATH LIGHT'; MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED



PATHWAY LIGHTING





## PHASE I

MUNICIPAL LOT 1

MUNICIPAL LOT 2

MUNICIPAL LOT 3

MUNICIPAL COMPLEX

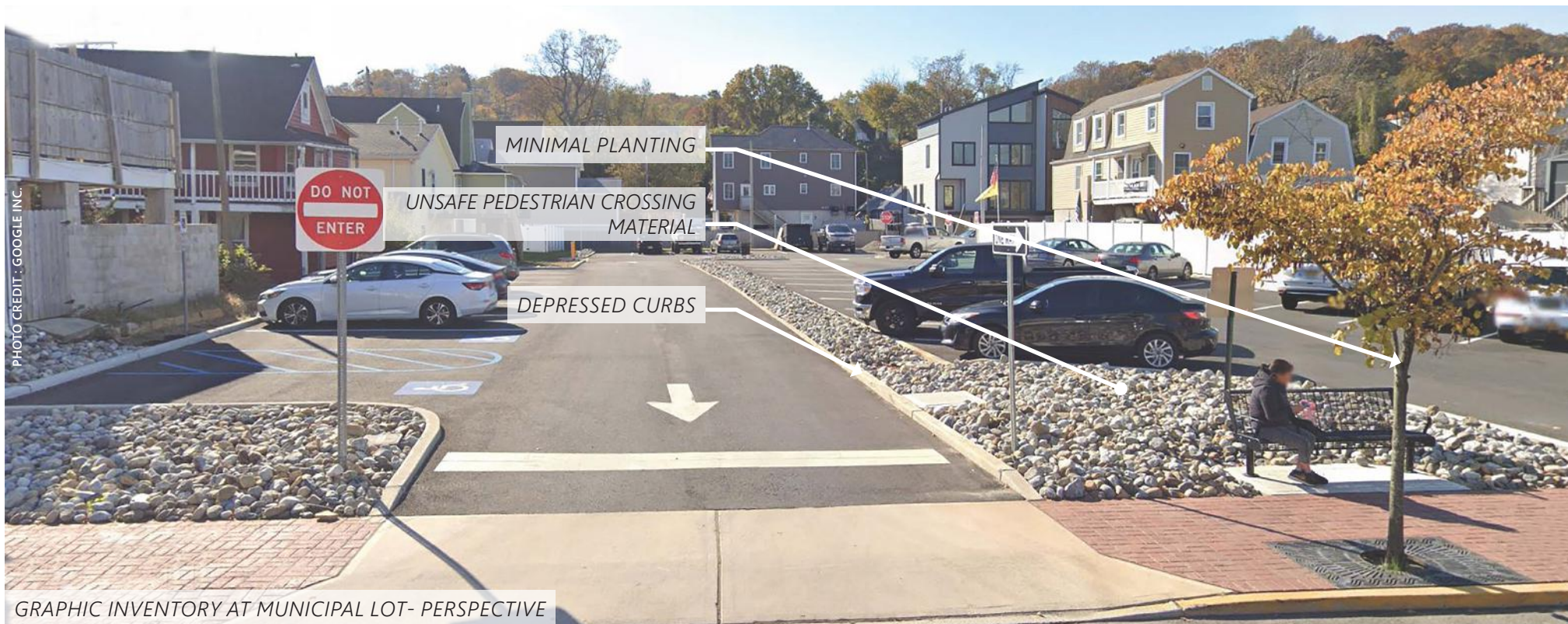
CENTRAL BUSINESS DISTRICT (CBD ZONE)

### EXISTING CONDITIONS INVENTORY

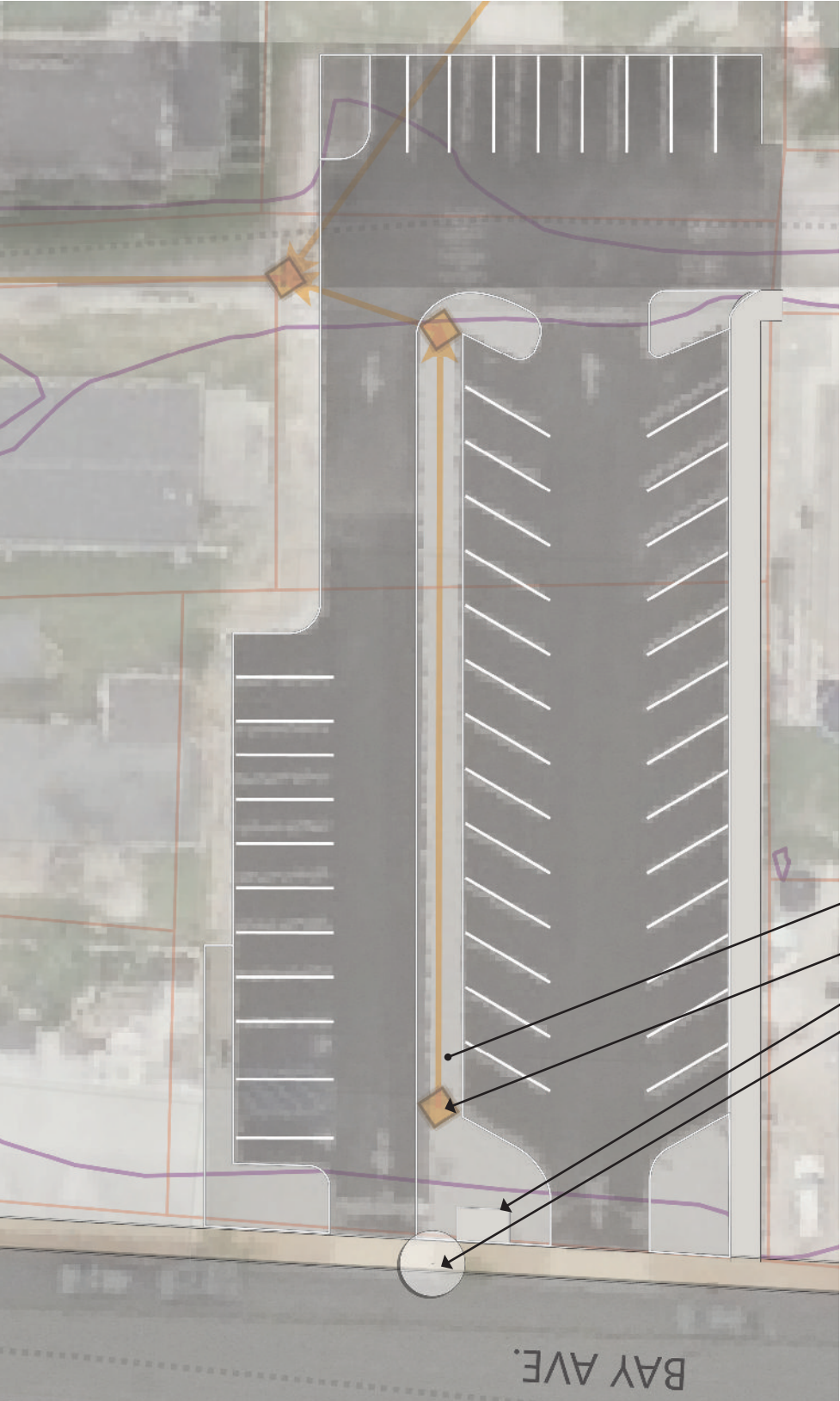
- PUBLIC PARKING FOR 47 SPACES, WITH 3 VEHICULAR ACCESS POINTS
- LARGE RIVER ROCKS THROUGHOUT ISLANDS IN PARKING LOT
- LIGHTING- ONLY FROM EXISTING (COBRA HEAD) STREET LIGHTS ON BAY AVE.
- PLANTING- SINGULAR TREE PLANTING AT BUS STOP ON BAY AVE. (SEE ILLUSTRATIVE PERSPECTIVE, *BELOW*)
- SIGNAGE- NO WAYFINDING, ONE MUNICIPAL LOT SIGN, SEE 'PHOTO B'
- STORMWATER- CENTRAL ISLAND HAS DEPRESSED/FLUSH CURBS AND STORM DRAINS, SEE 'GRAPHIC INVENTORY SKETCH' AND 'PHOTO A'

### EXISTING CONDITIONS ANALYSIS

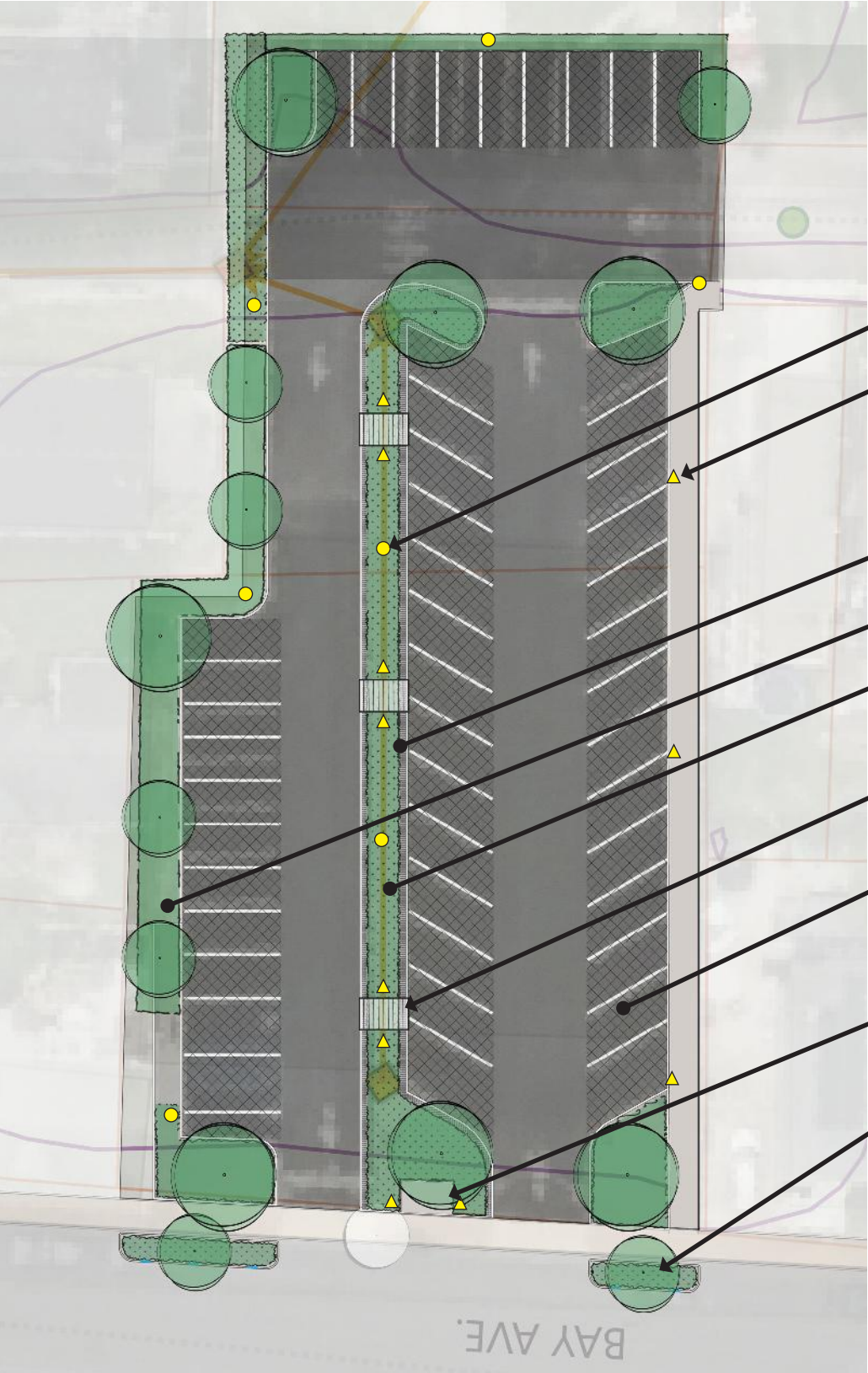
- PARKING- THIS LOT LOCATION HAS POTENTIAL TO BE HEAVILY USED, SO THE AMOUNT OF SPACES WILL NOT DECREASE.
- THE RIVER ROCKS PROVIDE NO BENEFIT AND SHOULD BE REMOVED, THEY ALSO PREVENT A TRIPPING HAZARD.
- ADDITION OF ACCESS AREAS THROUGH THE EXISTING ISLAND WILL IMPROVE PEDESTRIAN CIRCULATION
- LIGHTING- SHOULD BE LIGHTED FOR PEDESTRIANS AS WELL AS FOR VEHICLES
- PLANTING- RIVER ROCK AREA CAN BECOME PLANTING BEDS, WITH ADDED SHADE TREES
- FURNISHINGS- EXISTING BUS STOP NEAR CORNER OF MILLER AVE. AND BAY AVE. COULD BE RELOCATED TO THIS SITE (SEE EXISTING BENCH LOCATION). THE BUS STOP WOULD BENEFIT FROM A TRANSIT SHELTER, WITH TRASH & RECYCLING RECEPTACLES.
- SIGNAGE- ADD WAYFINDING AND DIRECTIONAL SIGNAGE FOR PEDESTRIANS AND USERS OF PARKING LOT.
- GREEN INFRASTRUCTURE- CAN BE ADDED IN THE TO-BE PLANTING BED AT THE CENTER ISLAND, THERE ARE EXISTING DEPRESSED CURBS AND STORM DRAINS





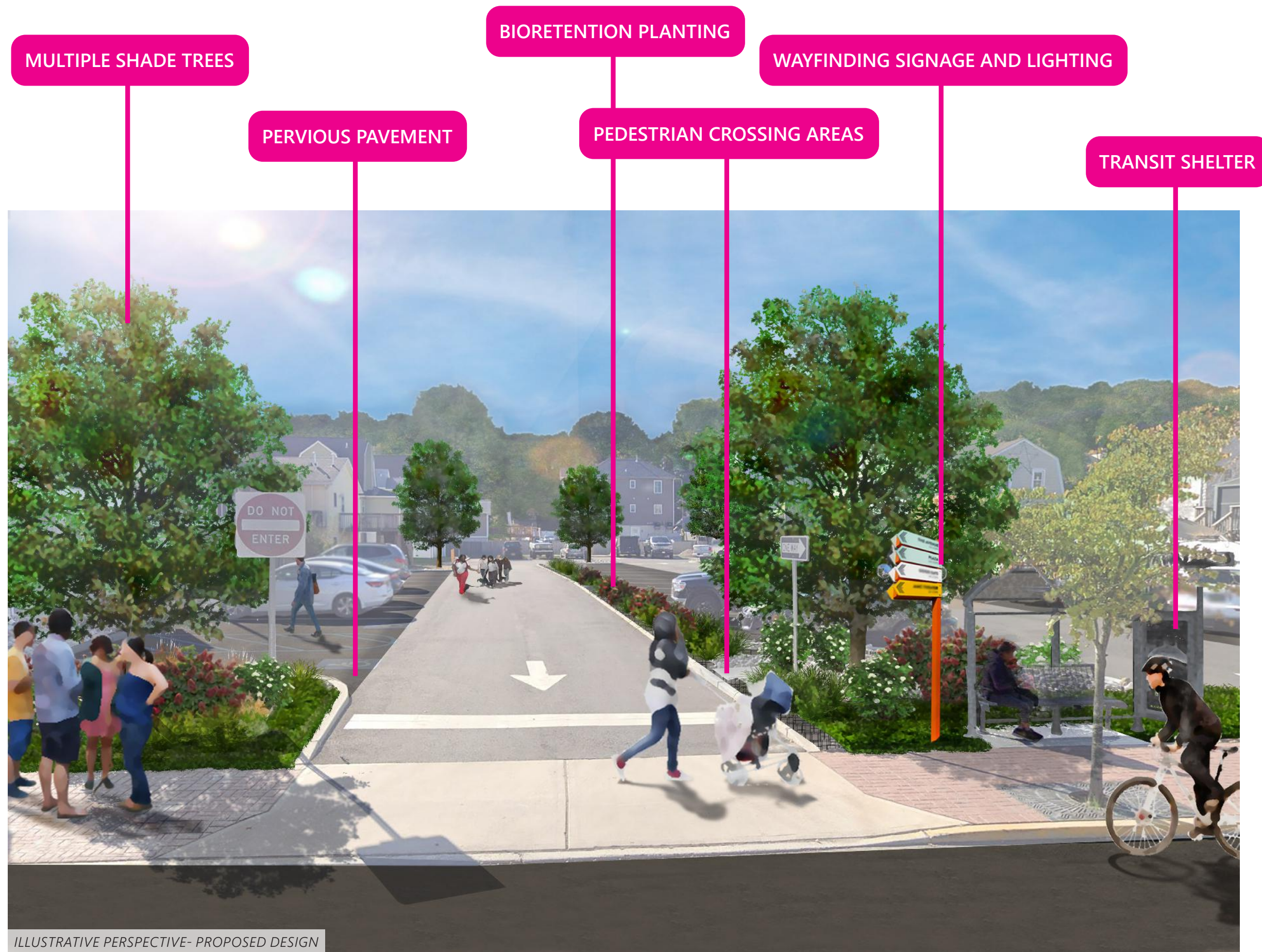


SITE PLAN- EXISTING CONDITION  
SCALE: 1"=20'



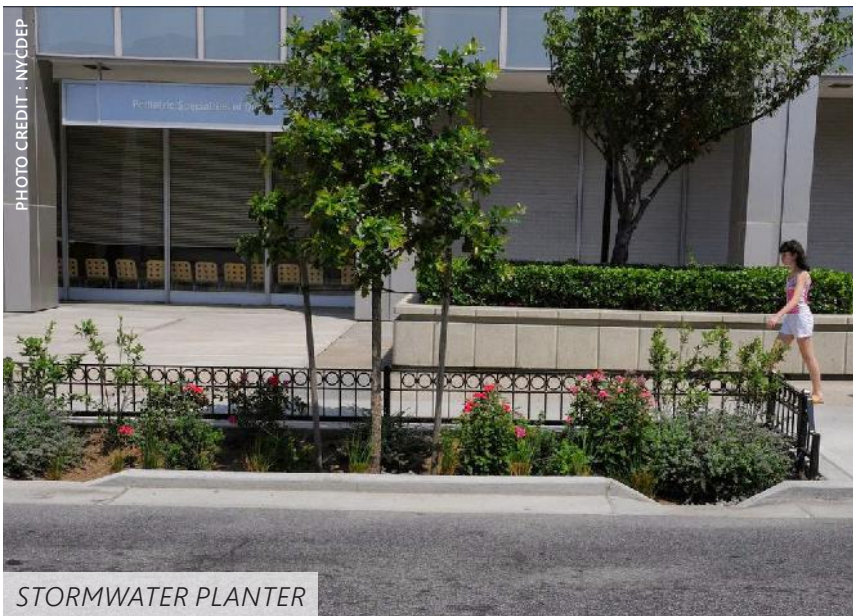
SITE PLAN- PROPOSED DESIGN  
SCALE: 1"=20'







## GREEN INFRASTRUCTURE ELEMENTS





SITE IMPROVEMENTS  
**SIGNAGE**



SITE IMPROVEMENTS  
**LIGHTING**



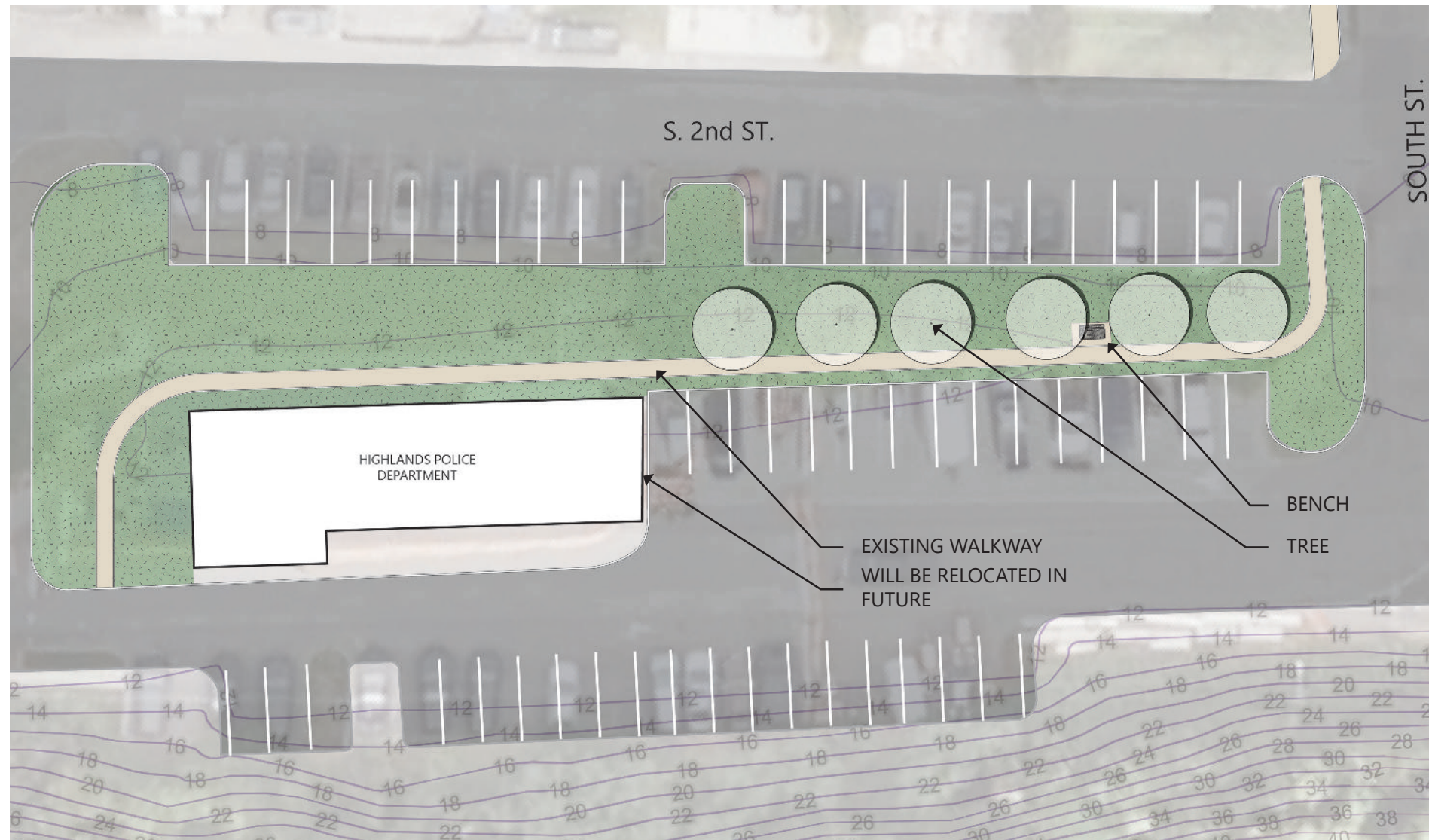
- PEDESTRIAN LIGHTING- STYLE: ASHBERY AREA LIGHT'; MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED
- PATHWAY LIGHTING- STYLE: ASHBERY PATH LIGHT'; MANUFACTURER: LANDSCAPE FORMS ; DARK SKY APPROVED





## PHASE I

MUNICIPAL LOT 1  
MUNICIPAL LOT 2  
**MUNICIPAL LOT 3**  
MUNICIPAL COMPLEX  
CENTRAL BUSINESS DISTRICT (CBD ZONE)



**SITE PLAN- EXISTING CONDITION**  
SCALE: 1"=30'



### EXISTING CONDITIONS INVENTORY

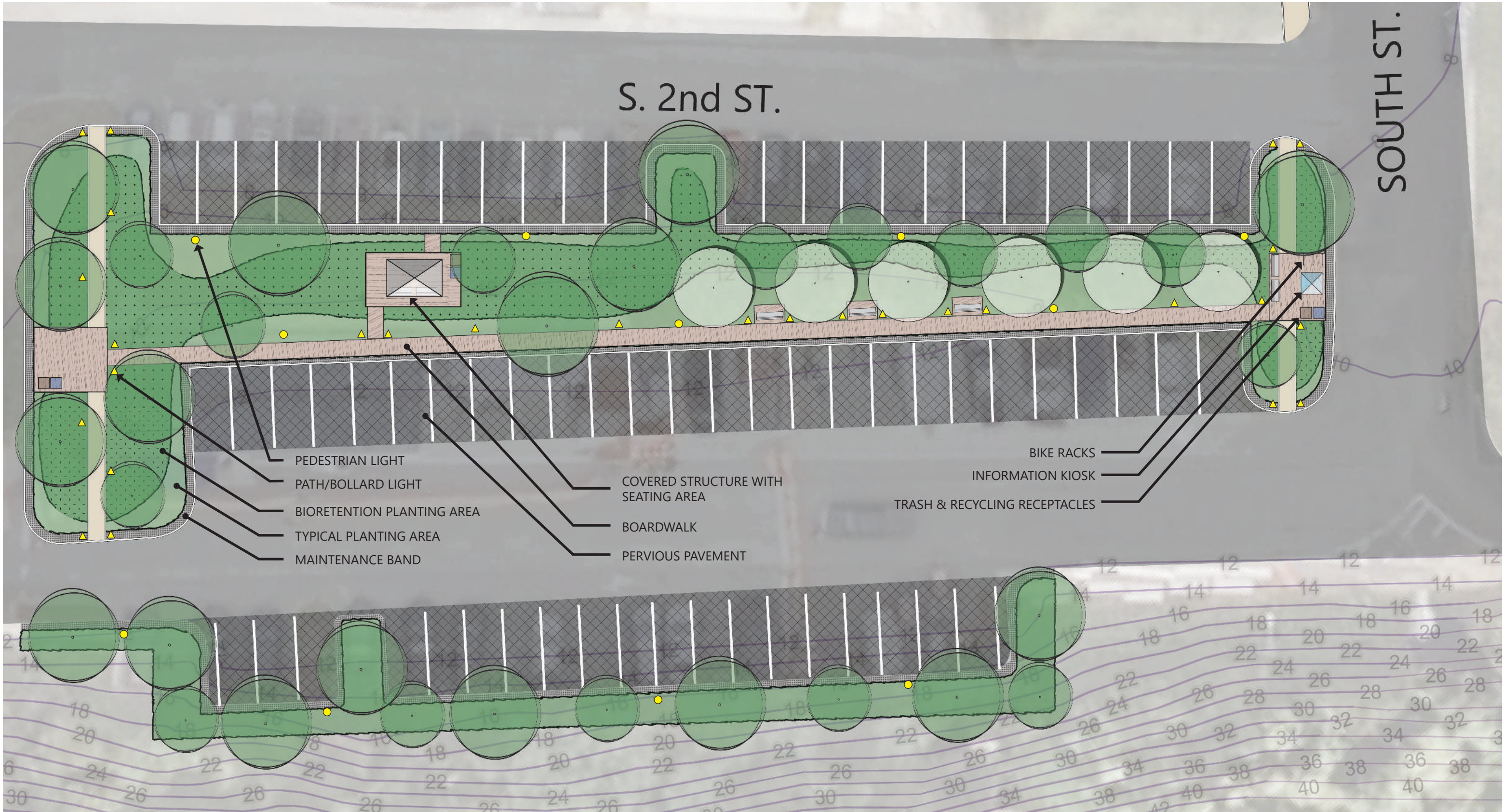
- PUBLIC PARKING FOR 22 SPACES (MORE AVAILABLE IN FUTURE, AFTER POLICE STATION RELOCATION)
- LIGHTING- AS AVAILABLE FROM EXISTING COBRA-HEAD LIGHTS
- PLANTING- SHADE TREES (QTY. 6) IN LAWN AT CENTRAL ISLAND
- FURNISHINGS- ONE BENCH IN CENTRAL ISLAND
- SIGNAGE- QTY. 1 'OVERNIGHT PARKING' SIGN

### EXISTING CONDITIONS ANALYSIS

- PARKING- THIS LOT LOCATION HAS POTENTIAL TO BE HEAVILY USED, SO THE AMOUNT OF SPACES WILL NOT DECREASE.
- LIGHTING- SHOULD BE LIGHTED FOR PEDESTRIANS AS WELL AS FOR VEHICLES (COBRA HEAD LIGHTS)
- PLANTING- EXISTING TREES CAN REMAIN; LAWN AREA TO BECOME LARGER PLANTING BEDS WHICH CAN HELP AID IN RUNOFF RETENTION
- FURNISHINGS- WOULD BENEFIT FROM MORE SEATING OPTIONS, BICYCLE FACILITIES, TRASH & RECYCLING RECEPTACLES
- SIGNAGE- ADD WAYFINDING AND DIRECTIONAL SIGNAGE FOR PEDESTRIANS AND USERS OF PARKING LOT. ADD AN INFORMATION KIOSK







SITE PLAN- PROPOSED DESIGN  
SCALE: 1"=20'



GREEN INFRASTRUCTURE  
ELEMENTS



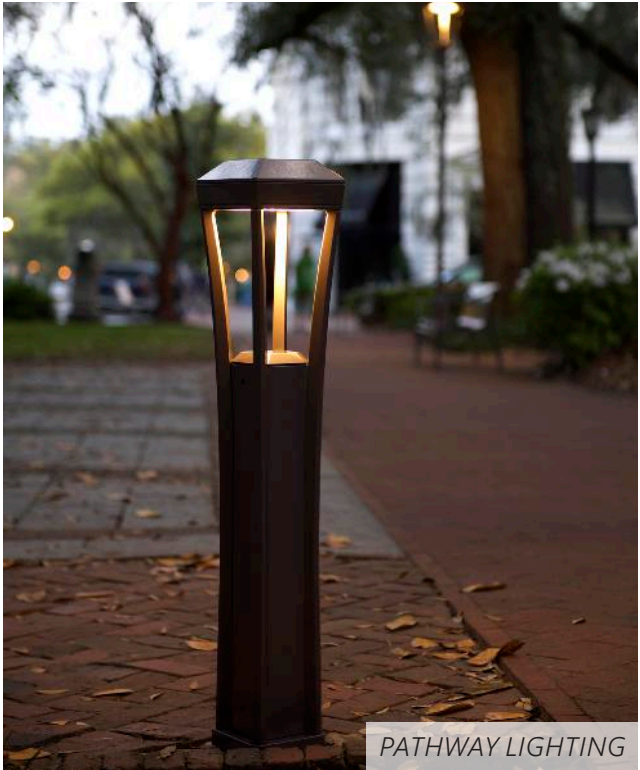
SITE IMPROVEMENTS  
SIGNAGE



SITE IMPROVEMENTS  
LIGHTING



- PEDESTRIAN LIGHTING- STYLE: ASHBURY AREA LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED
- PATHWAY LIGHTING- STYLE: ASHBURY PATH LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED





# PHASE I

- MUNICIPAL LOT 1
- MUNICIPAL LOT 2
- MUNICIPAL LOT 3
- MUNICIPAL COMPLEX**
- CENTRAL BUSINESS DISTRICT (CBD ZONE)

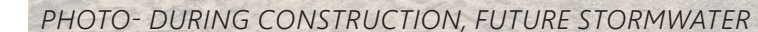
MUNICIPAL LOT 3

CENTRAL BUSINESS DISTRICT (CBD ZONE)

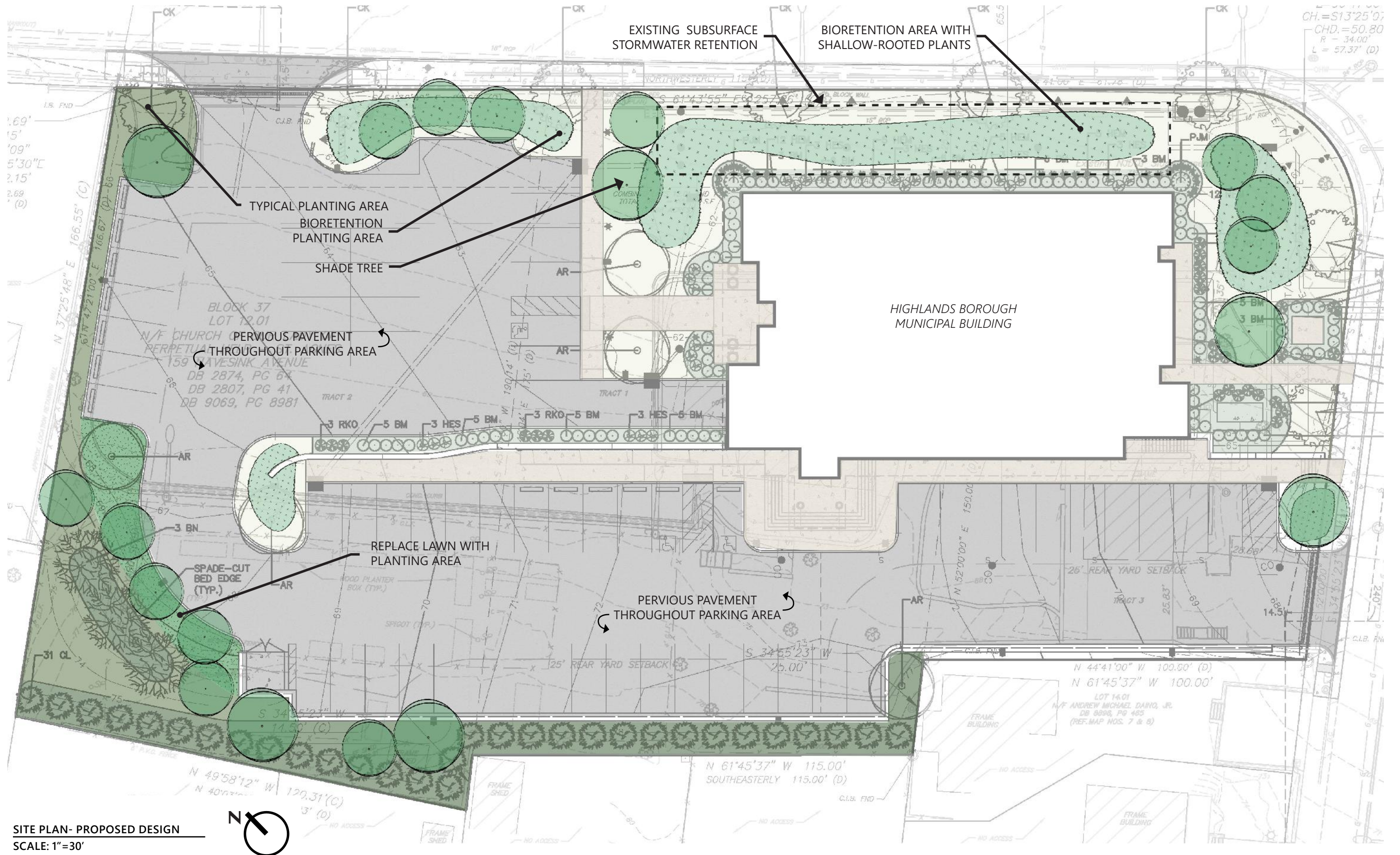


- PUBLIC PARKING-LARGE PARKING LOT, AVAILABILITY FOR 60 PARKING SPACES
- LIGHTING- POLE-MOUNTED, POST-TOP AND GROUND-MOUNTED LIGHTS, AS WELL AS LIGHTING ON BUILDING FACADE
- PLANTING- SHRUBS AND TREES HAVE BEEN INCLUDED IN THE NEW LANDSCAPE PLAN
- STORMWATER- A LARGE (QTY. 1)SUBSURFACE STORMWATER DETENTION STRUCTURE RUNS ALONG MEMORIAL PARKWAY

- PUBLIC PARKING- SPACES FOR VEHICLES SEEMS SUFFICIENT, SUGGEST ADDING BICYCLE PARKING
- PLANTING- REPLACE SOME OF THE LAWN AREA WITH PLANTING BEDS, ADD PERENNIALS AND ADD NATIVE SHRUBS AND TREES TO DIVERSIFY THE PLANTING PALETTE
- FURNISHINGS- WOULD BENEFIT FROM THE ADDITION OF OUTDOOR SEATING, TABLES. ADDITION OF BICYCLE FACILITIES
- SIGNAGE- WAYFINDING SIGNAGE FOR PEDESTRIANS, BICYCLISTS AND VEHICLES WILL HELP ORIENT VISITORS COMING TO AND FROM THE MUNICIPAL BUILDING
- STORMWATER- ADDITION OF BIORETENTION AREAS IN THE LANDSCAPE AND REPLACEMENT OF IMPERVIOUS SURFACE WITH PERVIOUS SURFACE IN THE PARKING AREA WITH WILL AID IN RETAINING AND TREATING RUNOFF.









GREEN INFRASTRUCTURE  
ELEMENTS



STORMWATER PLANTER WITH CURB CUTS



BIORETENTION PLANTER



PERVIOUS PAVEMENT - (POROUS ASPHALT)



MAINTENANCE STRIP AND CURB CUTS AT STORMWATER PLANTER

SITE IMPROVEMENTS  
SIGNAGE



INFORMATIONAL / EDUCATIONAL



WAYFINDING



WAYFINDING / DIRECTIONAL



## PHASE I

MUNICIPAL LOT 1  
MUNICIPAL LOT 2  
MUNICIPAL LOT 3  
MUNICIPAL COMPLEX  
CENTRAL BUSINESS DISTRICT (CBD ZONE)

### GRAPHIC INVENTORY OF A CBD ZONE STUDY AREA

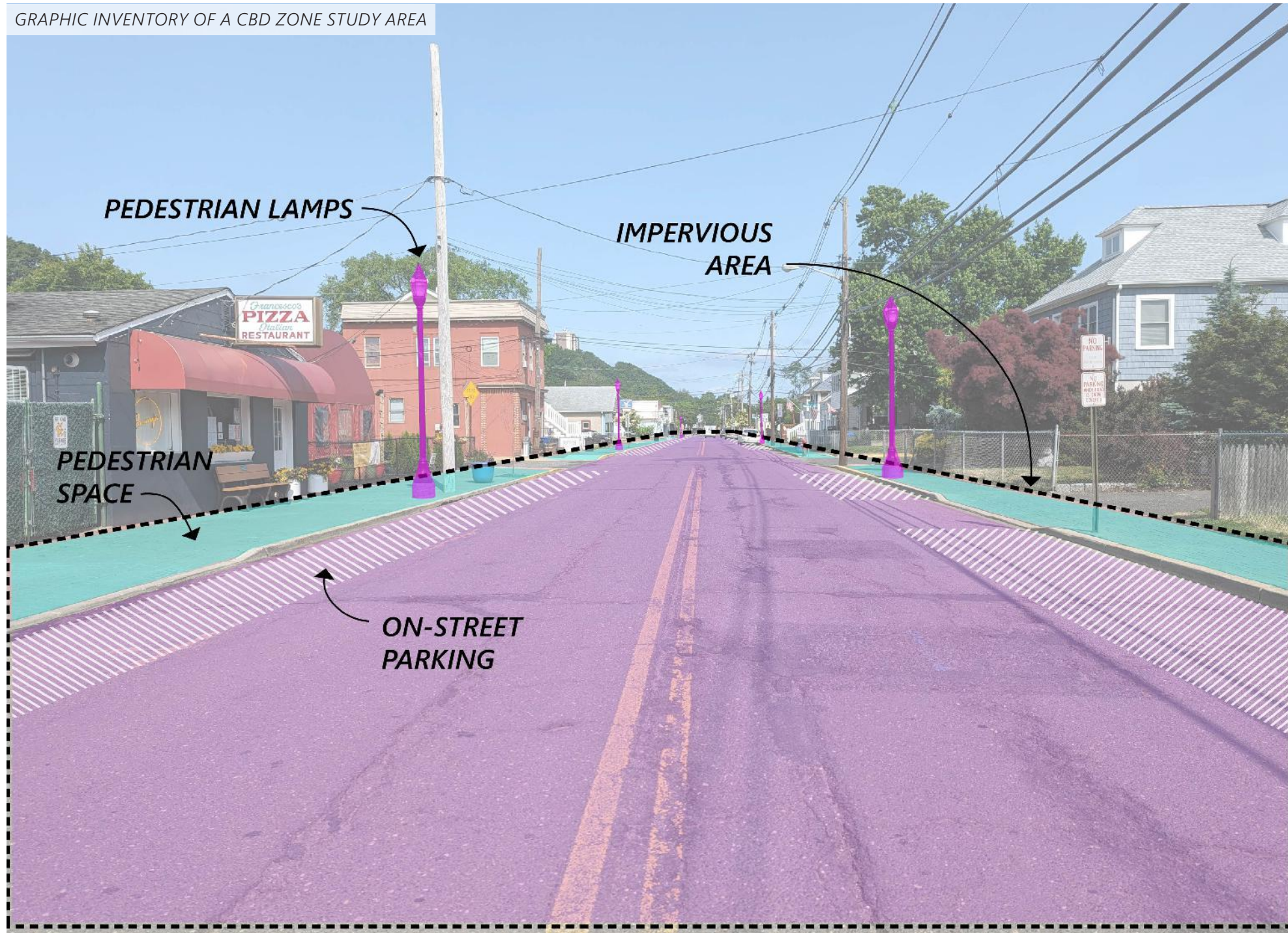


PHOTO - TYPICAL STREET TREE AND FURNISHINGS

### EXISTING CONDITIONS INVENTORY

- PUBLIC PARKING- ON-STREET PUBLIC PARKING IS WIDELY AVAILABLE THROUGHOUT THE CBD ZONE. THERE ARE ALSO THREE PUBLIC PARKING LOTS WITHIN THE ZONE
- LIGHTING- POST-TOP PEDESTRIAN LIGHTS, SEE 'GRAPHIC INVENTORY' SKETCH
- PLANTING- ORNAMENTAL STREET TREES (NOT PLENTIFUL) ARE WITHIN THE CBD CURB ZONE
- FURNISHINGS- BENCHES AND TRASH RECEPTACLES OCCUR WITHIN THE CBD ZONE
- SIGNAGE- TYPICAL STREET AND MUNICIPAL SIGNAGE VISIBLE
- STORMWATER- SURFACE PONDING OCCURS ON THE STREETS WITHIN THE CBD ZONE; THERE ARE STORM DRAINS BUT NO OTHER STORMWATER FACILITIES VISIBLE, NO GREEN INFRASTRUCTURE EXISTING

### EXISTING CONDITIONS ANALYSIS

- PUBLIC PARKING- AVAILABILITY SHOULD NOT DECREASE BY MUCH. PARKING CAN BE CONSOLIDATED AND THE PROVISION OF CLEARER WAYFINDING WILL HELP DIRECT PARKING-SEEKERS TO NEARBY PUBLIC PARKING LOTS
- PLANTING- ADDED STREET TREES (SHADE TREES) AND DESIGNATED PLANTING AREA WOULD PROVIDE VISUAL AND ENVIRONMENTAL BENEFIT
- FURNISHINGS- A MORE UNIFIED FURNISHING PALETTE WOULD BE HELPFUL IN UNIFYING THE SPACE AND DEFINING IT
- SIGNAGE- ADDITION OF WAYFINDING AND DIRECTIONAL SIGNAGE WILL HELP ORIENT PEDESTRIANS TO NEARBY DESTINATIONS BUSINESSES. WAYFINDING AND SIGNAGE FOR BICYCLISTS AND MOTORISTS WILL PROVIDE FURTHER EASE OF NAVIGATION
- GREEN INFRASTRUCTURE- BIORETENTION PLANTERS CAN BE ADDED IN STORMWATER CURB EXTENSIONS; PERVIOUS PAVEMENT CAN BE ADDED TO ON-STREET PARKING STALLS



WEST

EAST



KEY MAP  
SCALE: 1"=900'



SITE PLAN- WEST- PROPOSED DESIGN  
SCALE: 1"=150'



## GREEN INFRASTRUCTURE ELEMENTS



PERMEABLE PAVEMENT (POROUS ASPHALT)



PERMEABLE PAVEMENT (PAVERS)



STORMWATER CURB EXTENSION AT TRANSIT STOP

PHASE I CBD ZONE

## LEGEND



EXISTING STORMWATER INLET



EXISTING UTILITY COVER



BIORETENTION PLANTER



STORMWATER TREE



PERMEABLE PAVEMENT



STORMWATER CURB  
EXTENSION

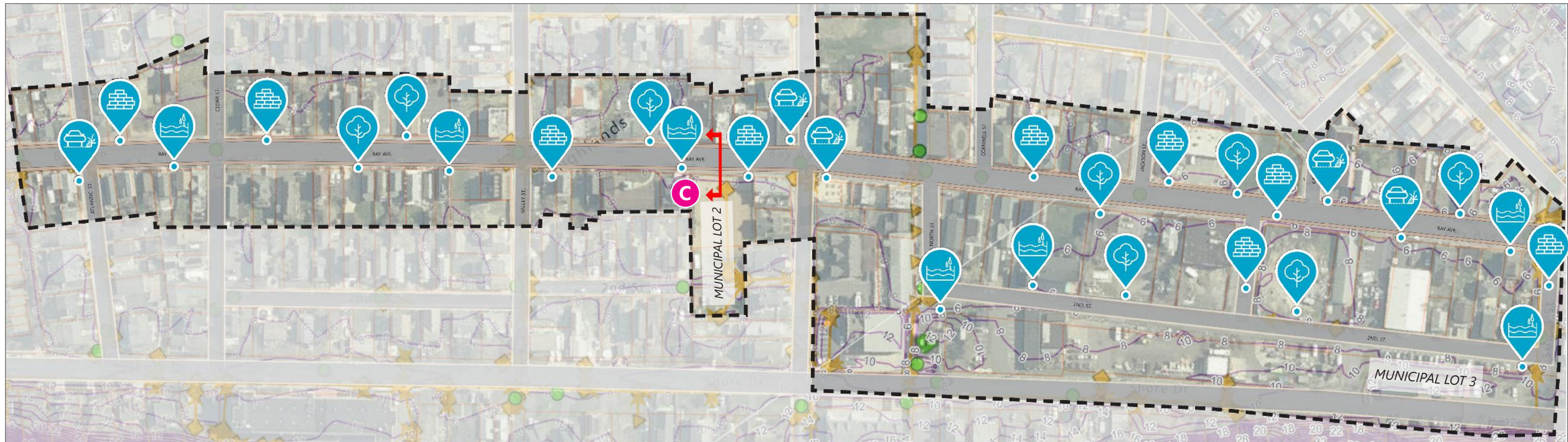


VEGETATED CURB EXTENSION





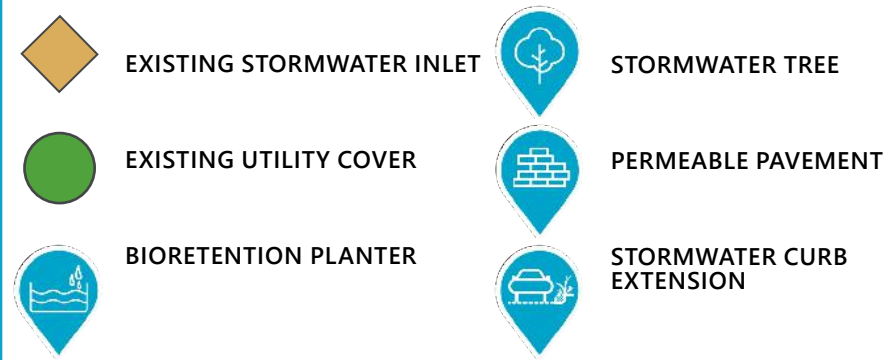
KEY MAP  
SCALE: 1"=900'



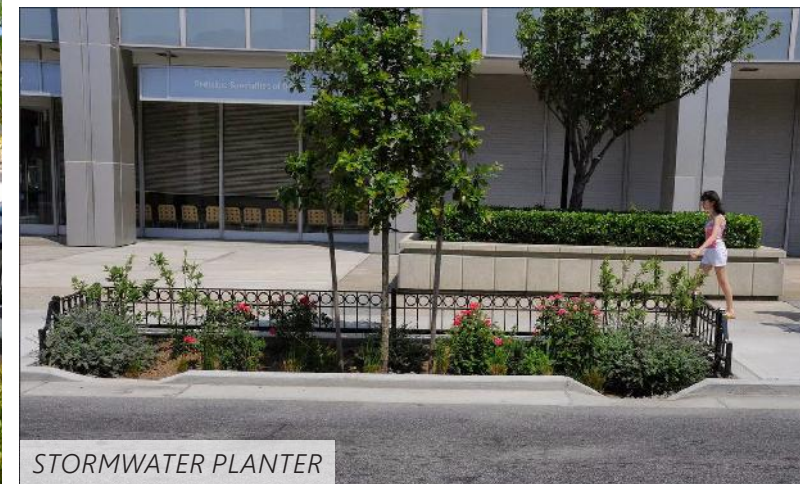
SITE PLAN- EAST- PROPOSED DESIGN  
SCALE: 1"=150'



## LEGEND

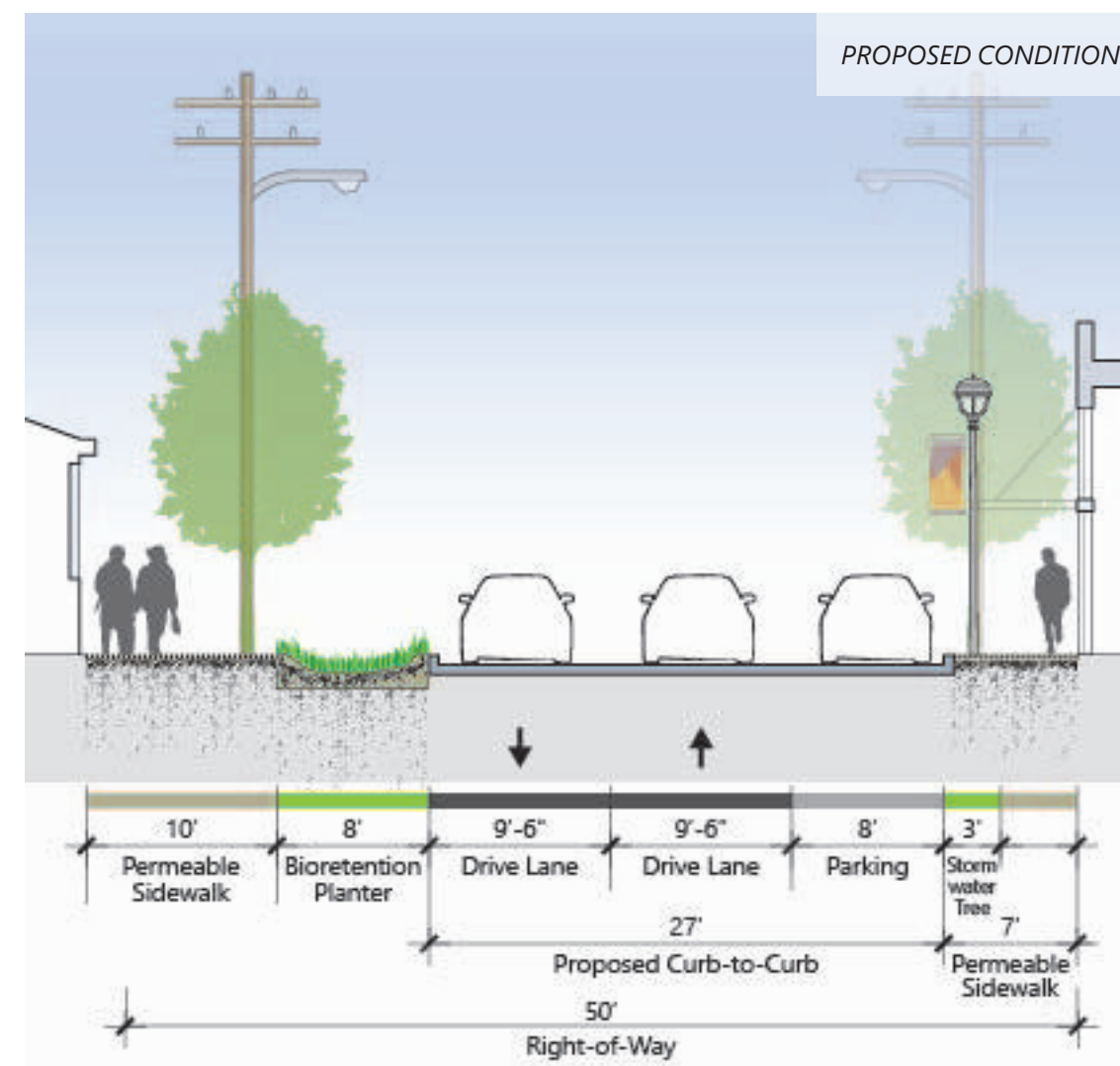
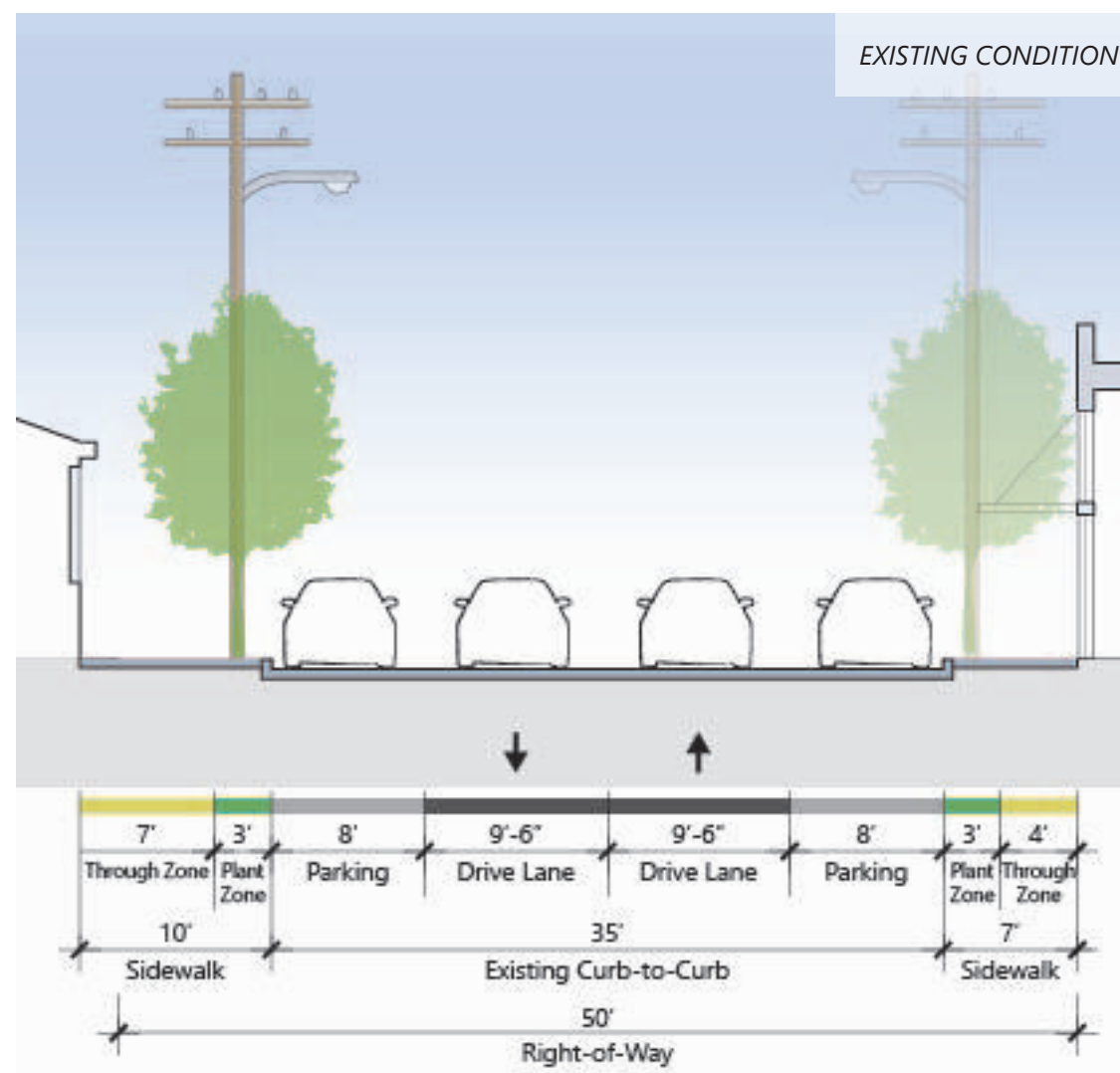


## GREEN INFRASTRUCTURE ELEMENTS



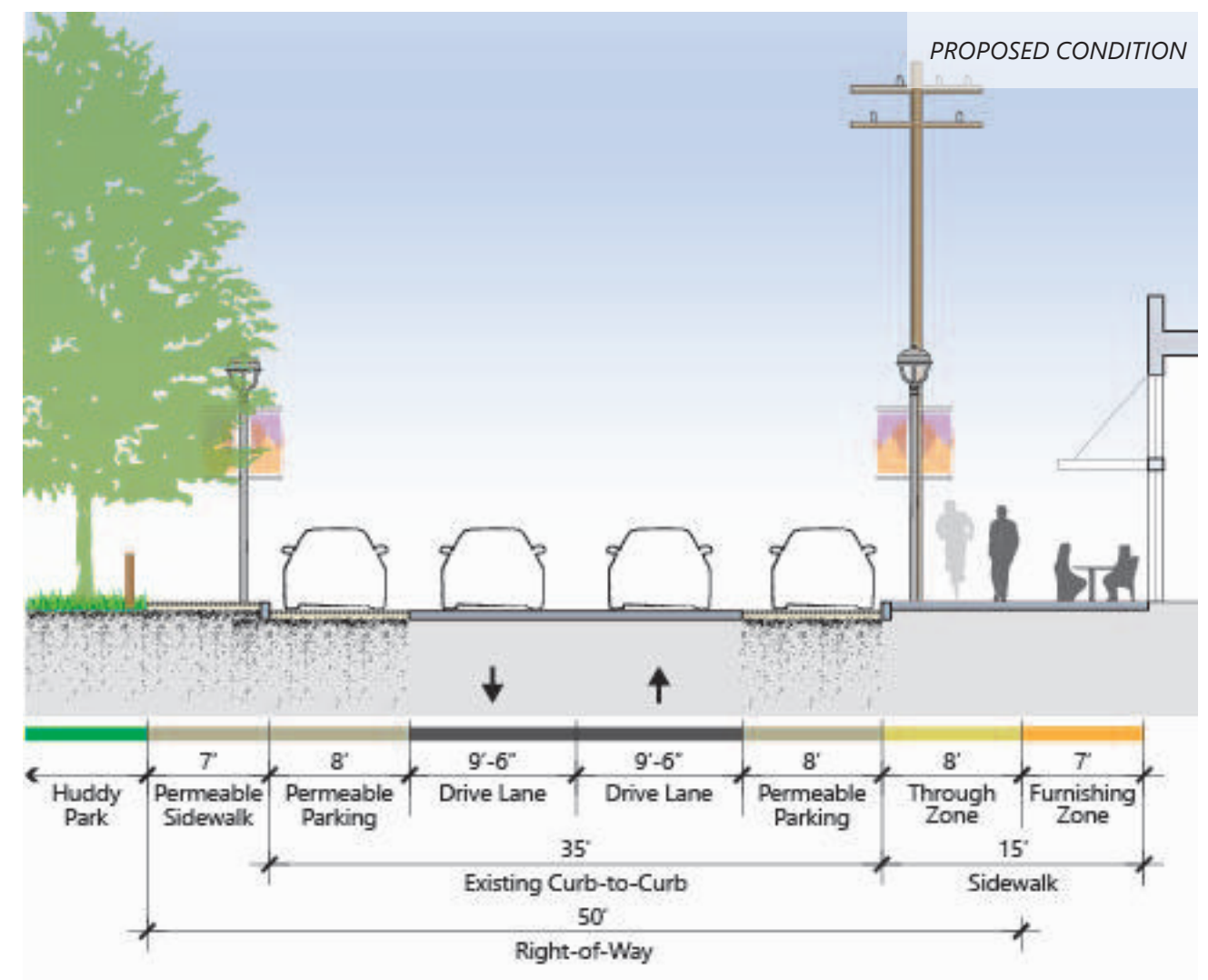
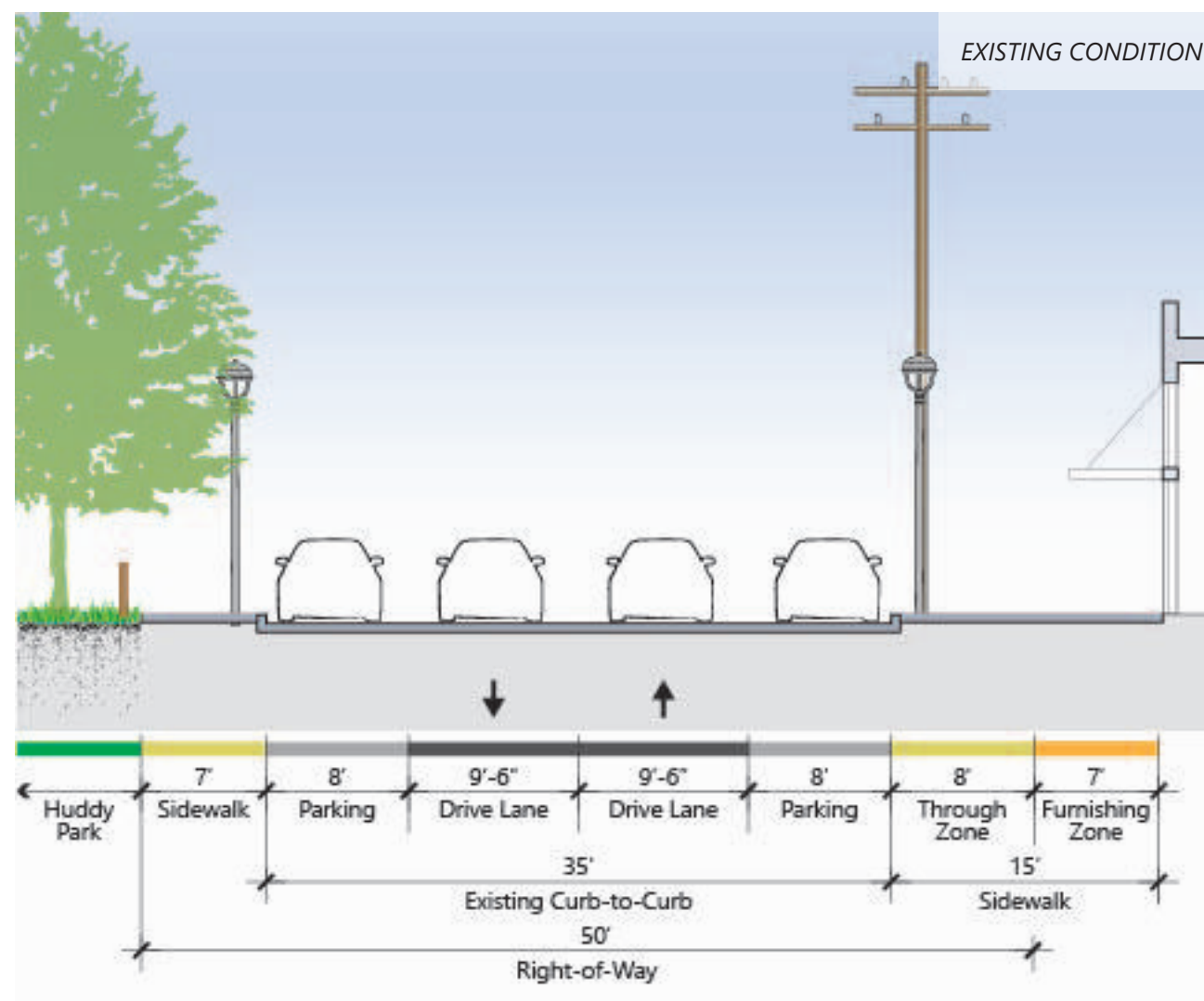


SECTION A @ BAY AVE AND SEADRIFT AVE



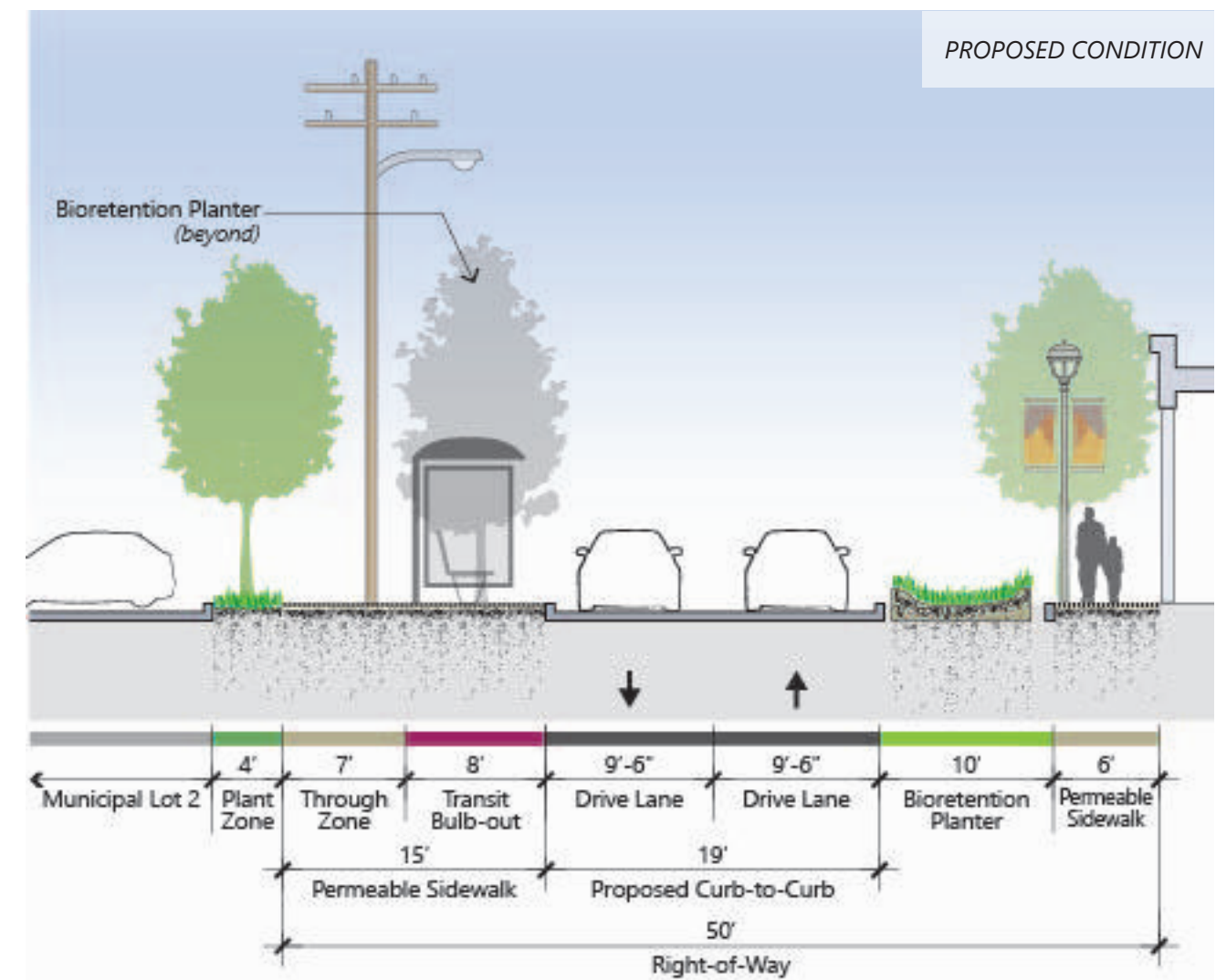
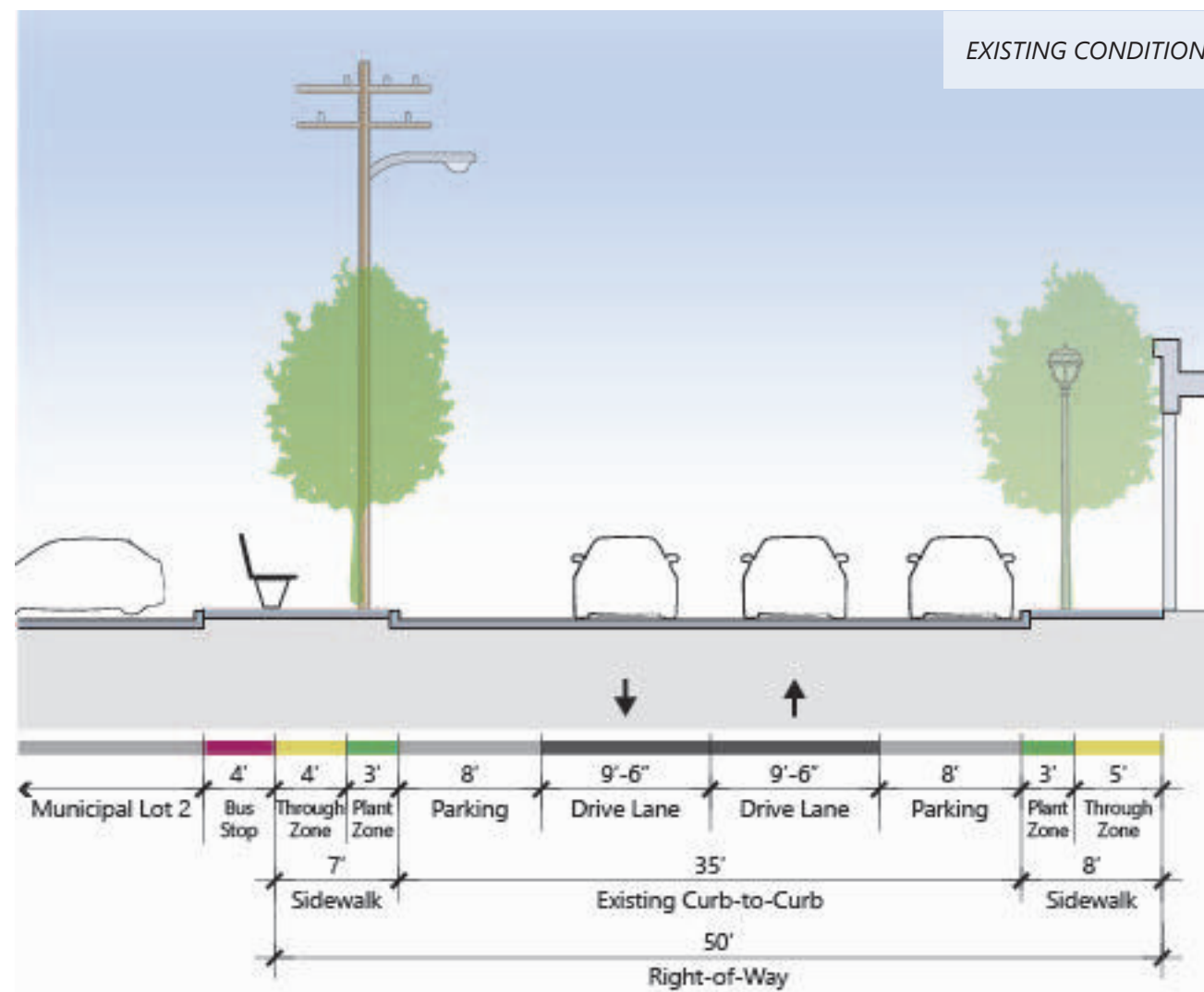


SECTION B @ WATERWITCH AVE AND HUDDY PARK





SECTION @ BAY AVE AND MUNICIPAL PARKING LOT 2





SITE IMPROVEMENTS  
**SIGNAGE**



SITE IMPROVEMENTS  
**LIGHTING**



- PEDESTRIAN LIGHTING
- OPTION FOR DOUBLE HEADED OR SINGLE HEADED.
  - WITH OR WITHOUT BANNER ARMS

- PEDESTRIAN LIGHTING- STYLE: ASHBERY AREA LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED
- PATHWAY LIGHTING- STYLE: ASHBERY PATH LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED





AMELANCHIER CANADENSIS- SHADBUSH



BETULA NIGRA 'DURA-HEAT'- RIVER BIRCH



CLETHRA ALNIFOLIA- SUMMERSWEET



HYPERICUM PROLIFICUM- SHRUBBY ST. JOHN'S WORT



AMSONIA HUBRICHTII- BLUESTAR



CAREX ALBICANS- WHITE-TINGED SEDGE



DIERVILLA LONICERA- NORTHERN BUSH HONEYSUCKLE



ILEX GLABRA- INKBERRY



ANDROPOGON GERARDII- BIG BLUESTEM



CERCIS CANADENSIS- EASTERN REDBUD



EUPATORIUM FISTULOSUM- JOE PYE WEED



IRIS VERSICOLOR- BLUE FLAG IRIS



ARONIA MELANOCARPA 'GROUND HUG' - BLACK CHOKEBERRY



CHELONE GLABRA- TURTLEHEAD



HEUCHERA VILLOSA CORAL BELLS

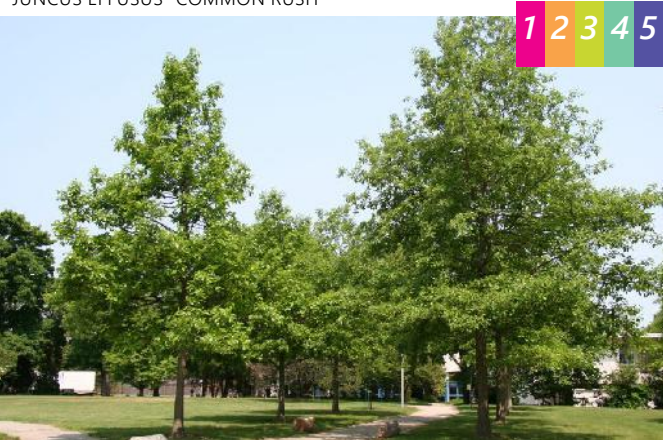


ITEA VIRGINICA- SWEETSPIRE





JUNCUS EFFUSUS- COMMON RUSH



QUERCUS BICOLOR- SWAMP WHITE OAK



NYSSA SYLVATICA- TUPELO



SCHIZACHYRIUM SCOPARIUM- LITTLE BLUESTEM



LIATRIS SPICATA- BLAZING STAR



RUDBECKIA FULGIDA- CONEFLOWER



PHLOX SUBULATA- MOSS PHLOX



VIBURNUM NUDUM- SMOOTH VIBURNUM

- SITE KEY
- 1

MUNICIPAL LOT 1
- 2

MUNICIPAL LOT 2
- 3

MUNICIPAL LOT 3
- 4

MUNICIPAL COMPLEX
- 5

CENTRAL BUSINESS DISTRICT  
(CBD ZONE)

PLANT LIST :

SITE	PLANT TYPE	BOTANICAL NAME	COMMON NAME
<div>35</div>	SMALL TREE	AMELANCHIER CANADENSIS	SHADBUSH
<div>12345</div>	PERENNIAL *	AMSONIA HUBRICHTII	BLUE STAR
<div>12345</div>	GRASS *	ANDROPOGON GERARDII	BIG BLUESTEM
<div>12345</div>	GROUNDCOVER *	ARONIA MELANOCARPA GROUND HUG	BLACK CHOKEBERRY
<div>2345</div>	TREE *	BETULA NIGRA 'DURA-HEAT'	RIVER BIRCH
<div>12345</div>	GROUNDCOVER	CAREX ALBICANS	WHITE-TINGED SEDGE
<div>345</div>	TREE *	CERCIS CANADENSIS	EASTERN REDBUD
<div>12345</div>	SHRUB *	CLETHRA ALNIFOLIA	SUMMERSWEET
<div>12345</div>	PERENNIAL *	EUPATORIUM FISTULOSUM	JOE-PYE WEED
<div>12345</div>	PERENNIAL *	HEUCHERA VILLOSA	CORAL BELLS
<div>12345</div>	SHRUB *	HYPERICUM PROLIFICUM	ST. JOHN'S WORT
<div>12345</div>	SHRUB *	ILEX GLABRA	INKBERRY HOLLY
<div>12345</div>	PERENNIAL *	IRIS VERSICOLOR	BLUE FLAG IRIS
<div>12345</div>	SHRUB *	ITEA VIRGINICA	SWEETSPIRE
<div>12345</div>	GRASS *	JUNCUS EFFUSUS	COMMON RUSH
<div>12345</div>	PERENNIAL *	LIATRIS SPICATA	BLAZING STAR
<div>12345</div>	TREE *	NYSSA SYLVATICA	TUPELO
<div>15</div>	GROUNDCOVER *	PHLOX SUBULATA	MOSS PHLOX
<div>12345</div>	TREE *	QUERCUS BICOLOR	SWAMP WHITE OAK
<div>12345</div>	PERENNIAL *	RUDBECKIA FULGIDA	ORANGE CONEFLOWER
<div>12345</div>	GRASS *	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
<div>35</div>	SHRUB *	VIBURNUM NUDUM	VIBURNUM- SMOOTH
* PLANT ALSO APPROPRIATE FOR GREEN INFRASTRUCTURE PLANTING			



# Phase Two | Beaches and Parks with Green Infrastructure Improvements





PHASE II

OVERVIEW MAP

PROJECT KEY

SNUG HARBOR PARK AND BEACH

HUDDY PARK

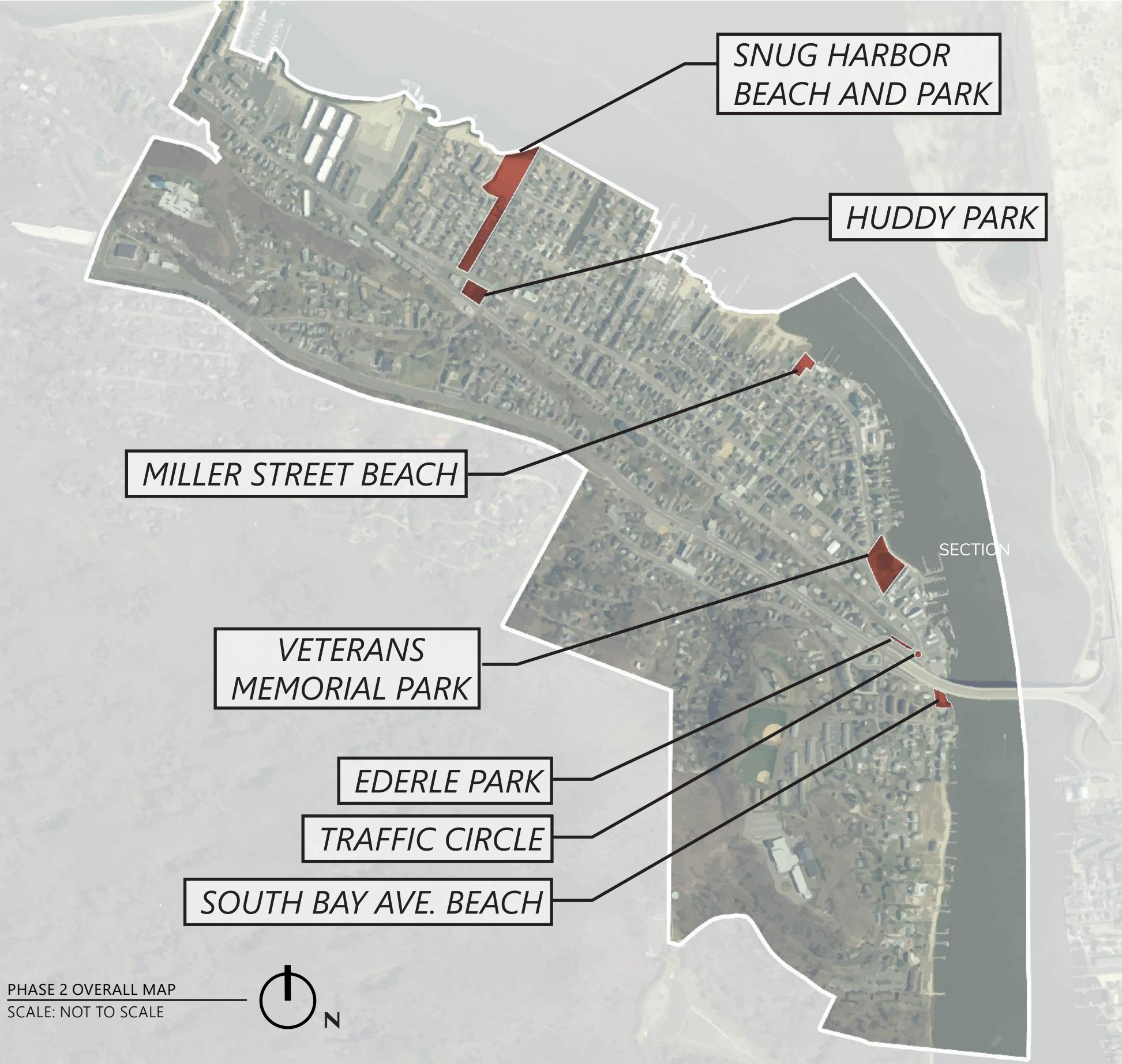
MILLER STREET BEACH

VETERANS MEMORIAL PARK

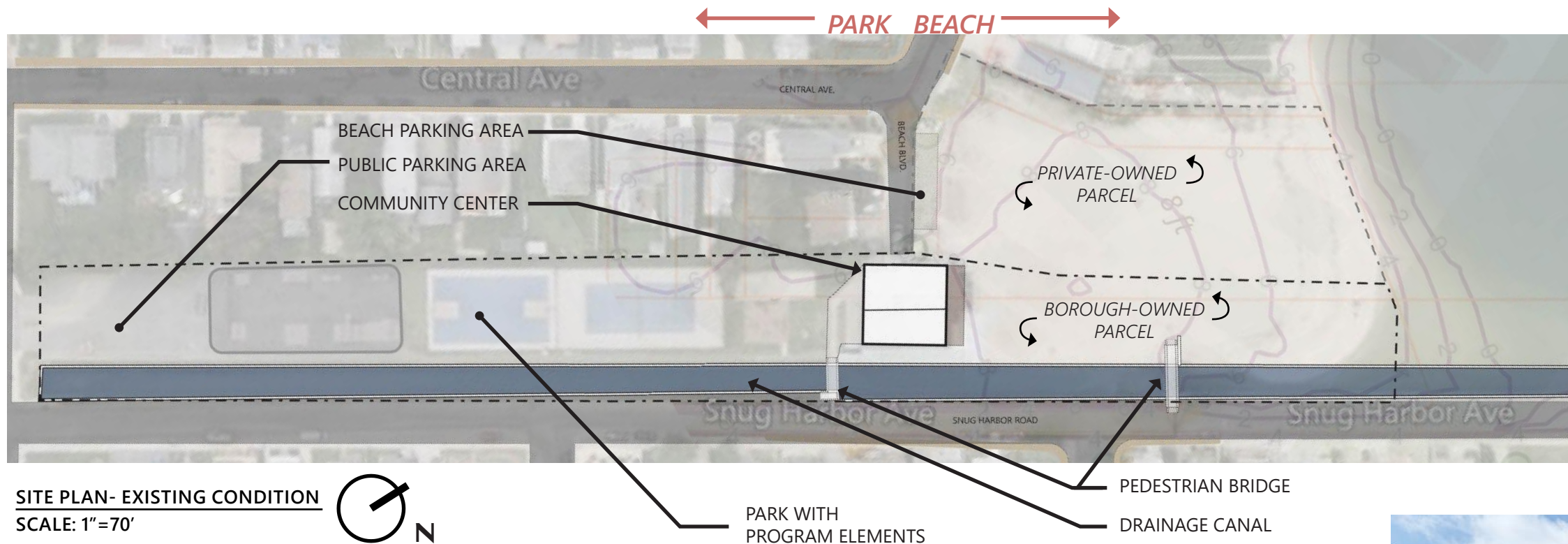
EDERLE PARK

SOUTH BAY AVE. BEACH PARK

TRAFFIC CIRCLE







## PHASE II

### SNUG HARBOR PARK AND BEACH

HUDDY PARK  
 MILLER STREET BEACH  
 VETERANS MEMORIAL PARK  
 EDERLE PARK  
 SOUTH BAY AVE. BEACH PARK  
 TRAFFIC CIRCLE

### EXISTING CONDITIONS INVENTORY @PARK

- EXISTING PROGRAM AREAS INCLUDE SKATE PARK, PICKLE BALL COURT, PLAYGROUND.
- LIGHTING- ONLY FROM SURROUNDING STREET LIGHTS
- PARKING- PUBLIC PARKING AREA AVAILABLE NEAR SKATE PARK
- PLANTING- BEDS NEAR FRONT OF COMMUNITY CENTER, WITH LAWN SPACE.
- FURNISHINGS- INCLUDE NEW SOLAR CHARGING PICNIC TABLES, BENCHES.
- STORMWATER- CANAL BETWEEN PARK AND SNUG HARBOR AVE., TALL CHAINLINK FENCE ON PARK-SIDE.

### EXISTING CONDITIONS ANALYSIS @PARK

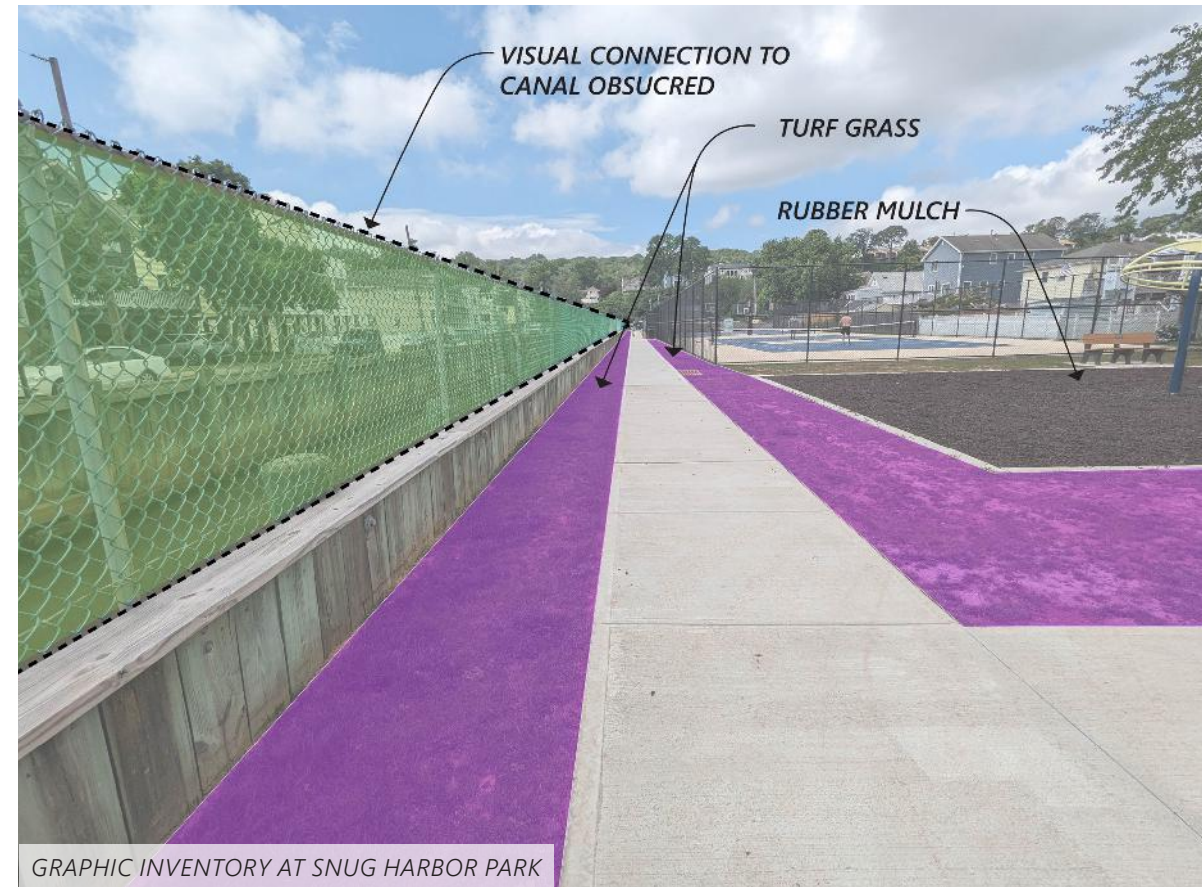
- SIGNAGE- NEED FOR SIGNAGE AND WAYFINDING TO EXISTING PROGRAM AREAS.
- LIGHTING- PATHWAY LIGHTING WOULD INCREASE SAFETY AND EASE OF NAVIGATION.
- PLANTING- ADDITION OF TREES AND PLANTING BEDS WILL ENHANCE PARK USER EXPERIENCE, ADD EDUCATIONAL ELEMENT, HELP RETAIN RUNOFF.
- OTHER AMENITIES- BICYCLE FACILITIES WOULD BE BENEFICIAL
- MATERIALS- RUBBER MULCH WILL FLOAT WITH EXCESS RAINWATER / FLOODING. WOULD SUGGEST USE OF POURED IN PLACE RUBBER SAFETY SURFACING INSTEAD
- GREEN INFRASTRUCTURE- INCLUSION OF MORE PERVIOUS SURFACE AND DIRECTION OF RUNOFF TO VEGETATED SWALE BEFORE ENTERING CANAL CAN HELP WITH STORMWATER QUALITY.

### EXISTING CONDITIONS INVENTORY @BEACH

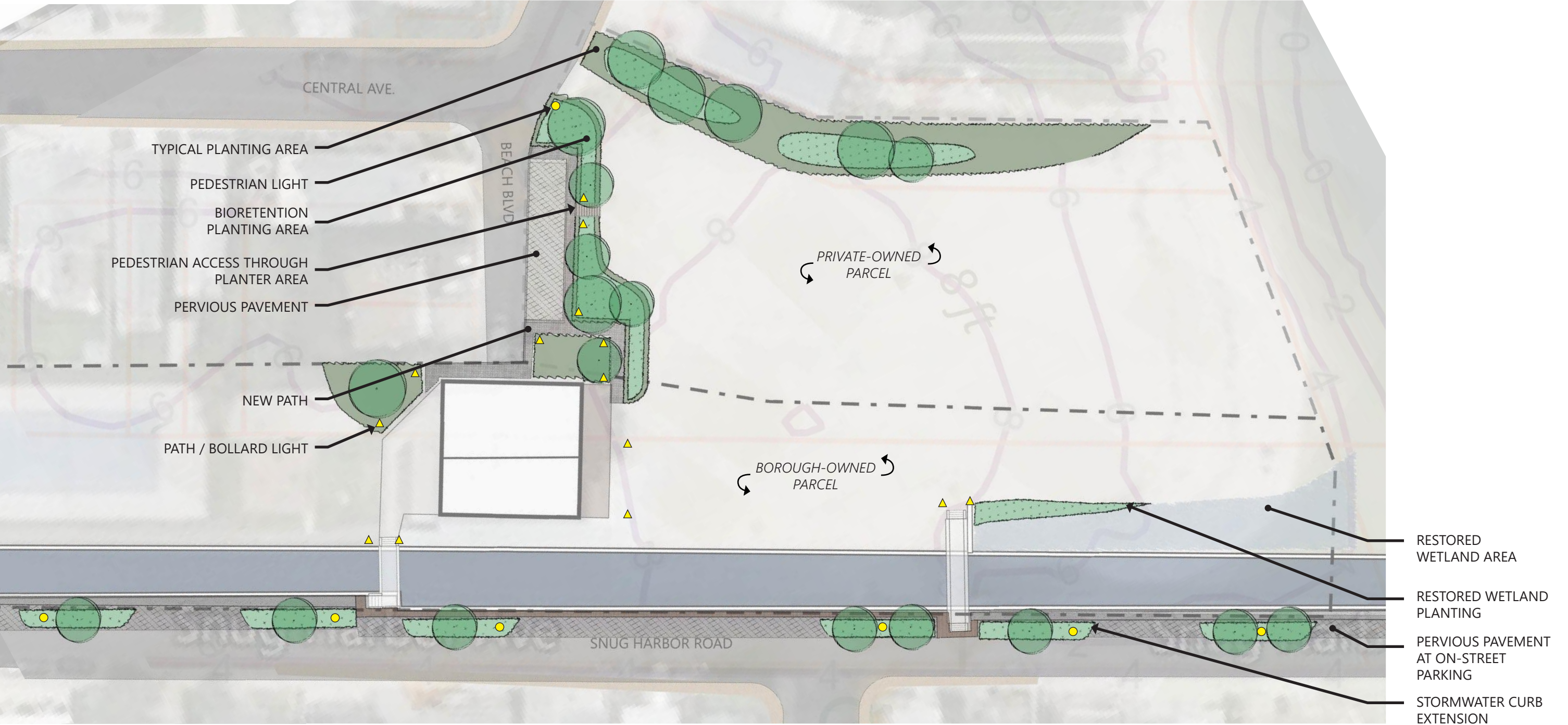
- PARKING FOR ABOUT 8 VEHICLES ON SAND/GRAVEL LOT PARKING AREA,
- ONE MEMORIAL, KINDNESS ROCKS PROJECT NEAR PARKING AREA.
- ACCESS TO COMMUNITY CENTER FROM BEACH
- ACCESS TO SNUG HARBOR AVE. VIA PEDESTRIAN BRIDGE ACROSS CANAL
- STORMWATER- CANAL BETWEEN BEACH AND SNUG HARBOR AVE., BARRICADED AT PEDESTRIAN BRIDGE, OPEN AT BEACH.

### EXISTING CONDITIONS ANALYSIS @BEACH

- PARKING- AMOUNT OF SPACES SHOULD NOT DECREASE
- SIGNAGE- WILL HELP ORIENT BEACH USERS TO NEARBY FACILITIES.
- AMENITIES- PARKING AREA, BEACH ACCESS WOULD BENEFIT FROM ADDITION OF SEATING AREA, FOOT SHOWERS.
- LIGHTING- PATHWAY LIGHTING WOULD HELP NAVIGATION TO BEACH, PEDESTRIAN BRIDGE AND COMMUNITY CENTER.
- PLANTING- ADDITION OF LARGE PLANTING BEDS AROUND PARKING AREA AND ALONGSIDE BEACH COULD IMPROVE EROSION, CONTROL RUNOFF, PROVIDE HABITAT.
- GREEN INFRASTRUCTURE- CAN BE ADDED IN FUTURE PLANTING BEDS, HELPING TO IMPROVE RUNOFF WATER QUALITY. INTENTIONAL ACCESS TO CANAL CAN PROVIDE BENEFICIAL HABITAT AND EDUCATIONAL OPPORTUNITIES.







SITE PLAN- PROPOSED DESIGN  
SCALE: 1"=40'







SURFACE PONDING  
SIGNS OF SEDIMENTATION

INTERPRETIVE SIGNAGE  
AT STORMWATER CURB  
EXTENSION

PERVIOUS PAVEMENT  
PATH

INTERPRETIVE SIGNAGE  
AT WATER'S EDGE

ILLUSTRATIVE PERSPECTIVE- PROPOSED DESIGN



GREEN INFRASTRUCTURE  
ELEMENTS



STORMWATER PLANTER AND TREE WITH PERVIOUS PAVING



BIORETENTION PLANTER



BIORETENTION PLANTER AT SIDEWALK

SITE IMPROVEMENTS  
LIGHTING



PEDESTRIAN LIGHTING

- PEDESTRIAN LIGHTING- STYLE: ASHBERY AREA LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED
- PATHWAY LIGHTING- STYLE: ASHBERY PATH LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED



PATHWAY LIGHTING

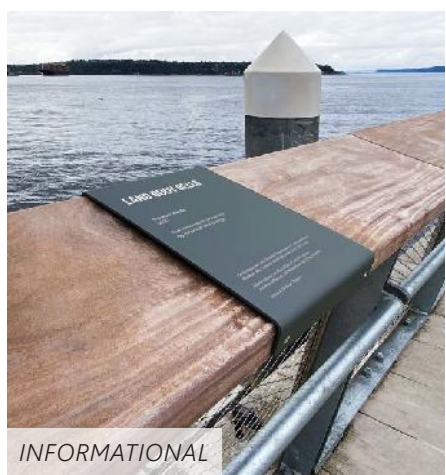
SITE IMPROVEMENTS  
SIGNAGE



WAYFINDING / DIRECTIONAL



INFORMATIONAL / EDUCATIONAL



INFORMATIONAL



WAYFINDING



KIOSK / INFORMATIONAL



SITE-SPECIFIC SIGNAGE AND AMENITIES





AMELANCHIER CANADENSIS- SHADBUSH



AMMOPHILA BREVILIGULATA- AMERICAN BEACH GRASS



AMSONIA HUBRICHTII- BLUE STAR



ANDROPOGON GERARDII- BIG BLUESTEM



ARCTOSTAPHYLOS UVA-URSI- BEARBERRY



ARONIA MELANOCARPA GROUND HUG- BLACK CHOKEBERRY



ASTER SPECTABILIS- SHOWY ASTER



BAPTISIA AUSTRALIS- FALSE INDIGO



BETULA NIGRA 'DURA-HEAT'- RIVER BIRCH



COREOPSIS LANCEOLATA- TICKSEED



DIERVILLA LONICERA- NORTHERN BUSH HONEYSUCKLE



EUPATORIUM FISTULOSUM- JOE PYE WEED



HEUCHERA VILLOSA CORAL BELLS



HYPERICUM PROLIFICUM- SHRUBBY ST. JOHN'S WORT



IRIS VERSICOLOR- BLUE FLAG IRIS



ITEA VIRGINICA- SWEETPIRE





JUNCUS EFFUSUS- COMMON RUSH



JUNIPERUS HORIZONTALIS 'BAR HARBOR'- CREEPING JUNIPER



JUNIPERUS VIRGINIANA 'GREY OWL'- DWARF EASTERN RED CEDAR



LIATRIS SPICATA- BLAZING STAR



MYRICA PENSYLVANICA- NORTHERN BAYBERRY



NYSSA SYLVATICA- TUPELO



PRUNUS MARITIMA- BEACH PLUM



RHUS AROMATICA- 'GRO-LOW' FRAGRANT SUMAC



RUDBECKIA FULGIDA- CONEFLOWER



SCHIZACHYRIUM SCOPARIUM- LITTLE BLUESTEM



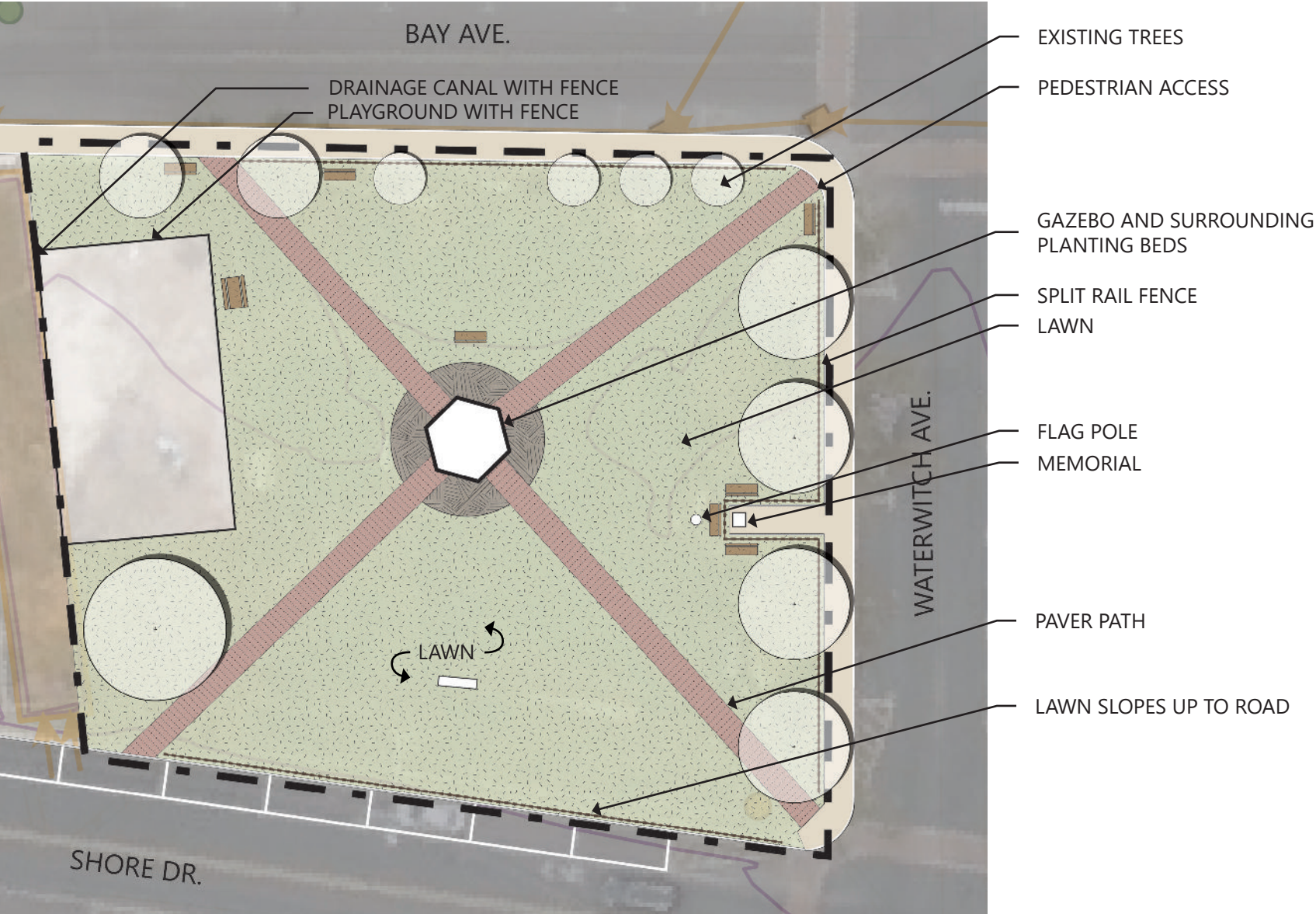
VIBURNUM NUDUM- SMOOTH VIBURNUM



PLANT LIST :

PLANT TYPE	BOTANICAL NAME	COMMON NAME
SMALL TREE	AMELANCHIER CANADENSIS	SHADBUSH
GRASS	AMMOPHILA BREVILIGULATA	AMERICAN BEACH GRASS
PERENNIAL *	AMSONIA HUBRICHTII	BLUE STAR
GRASS *	ANDROPOGON GERARDII	BIG BLUESTEM
GROUNDCOVER	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY
GROUNDCOVER	ARONIA MELANOCARPA GROUND HUG	BLACK CHOKEBERRY
PERENNIAL	ASTER SPECTABILIS	SHOWY ASTER
PERENNIAL	BAPTISIA AUSTRALIS	FALSE INDIGO
TREE *	BETULA NIGRA 'DURA-HEAT'	RIVER BIRCH
PERENNIAL	COREOPSIS LANCEOLATA	TICKSEED
SHRUB *	DIERVILLA LONICERA	NORTHERN BUSH HONEYSUCKLE
PERENNIAL *	EUPATORIUM FISTULOSUM	JOE-PYE WEED
PERENNIAL *	HEUCHERA VILLOSA	CORAL BELLS
SHRUB *	HYPERICUM PROLIFICUM	ST. JOHN'S WORT
PERENNIAL *	IRIS VERSICOLOR	BLUE FLAG IRIS
SHRUB	ITEA VIRGINICA	SWEETSPIRE
GRASS *	JUNCUS EFFUSUS	COMMON RUSH
GROUNDCOVER	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	CREEPING JUNIPER
SHRUB	JUNIPERUS VIRGINIANA 'GREY OWL'	EASTERN RED CEDAR 'GREY OWL'
PERENNIAL *	LIATRIS SPICATA	BLAZING STAR
SHRUB	MYRICA PENSYLVANICA	NORTHERN BAYBERRY
TREE	NYSSA SYLVATICA	TUPELO
SHRUB	PRUNUS MARITIMA	BEACH PLUM
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PERENNIAL *	RUDBECKIA FULGIDA	BLACK-EYED SUSAN
GRASS *	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
SHRUB	VIBURNUM NUDUM	VIBURNUM- SMOOTH
* PLANT ALSO APPROPRIATE FOR GREEN INFRASTRUCTURE PLANTING		





SITE PLAN- EXISTING CONDITION

SCALE: 1"=40'



EXISTING CONDITIONS

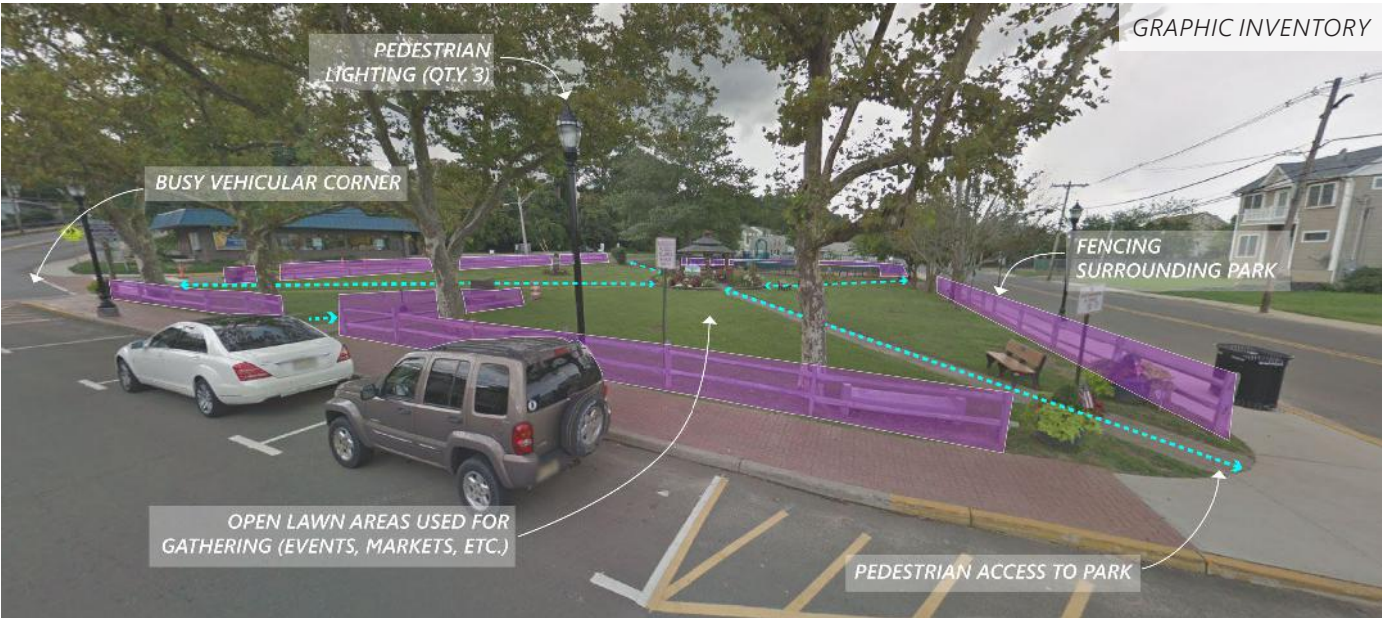
INVENTORY

- TREES-
  - FOUR LARGE SHADE TREES ALONG WATERWITCH AVE.
  - ONE LARGE SHADE TREE NEAR PLAYGROUND
  - FOUR LARGE SHRUB/MULTI -STEMMED TREES ALONG BAY AVE.
  - TWO ORNAMENTAL TREES ALONG BAY AVE.
- PLANTING BEDS - AROUND GAZEBO, FLAGPOLE AND MEMORIAL
- LIGHTING- TWO PEDESTRIAN LIGHTS ON WATERWITCH AVE., ONE ON BAY AVE., ONE COBRA-HEAD ON SHORE DR.
- FENCE- SPLIT RAIL FENCE AROUND PARK, OPENINGS AT CORNERS. CHAIN LINK FENCE AT CANAL AND PLAYGROUND.
- AMENITIES- MULTIPLE BENCHES AT PARK CORNER AND IN GAZEBO; CONCRETE FLOWER POTS, ONE PICNIC TABLE, ONE SPLIT WATER FOUNTAIN, VARIOUS TRASH AND RECYCLING RECEPTACLES.
- STORMWATER- THREE VISIBLE STORM DRAIN INLETS IN PARK; CANAL. SINKING PAVER PATHS LEADING TO GAZEBO

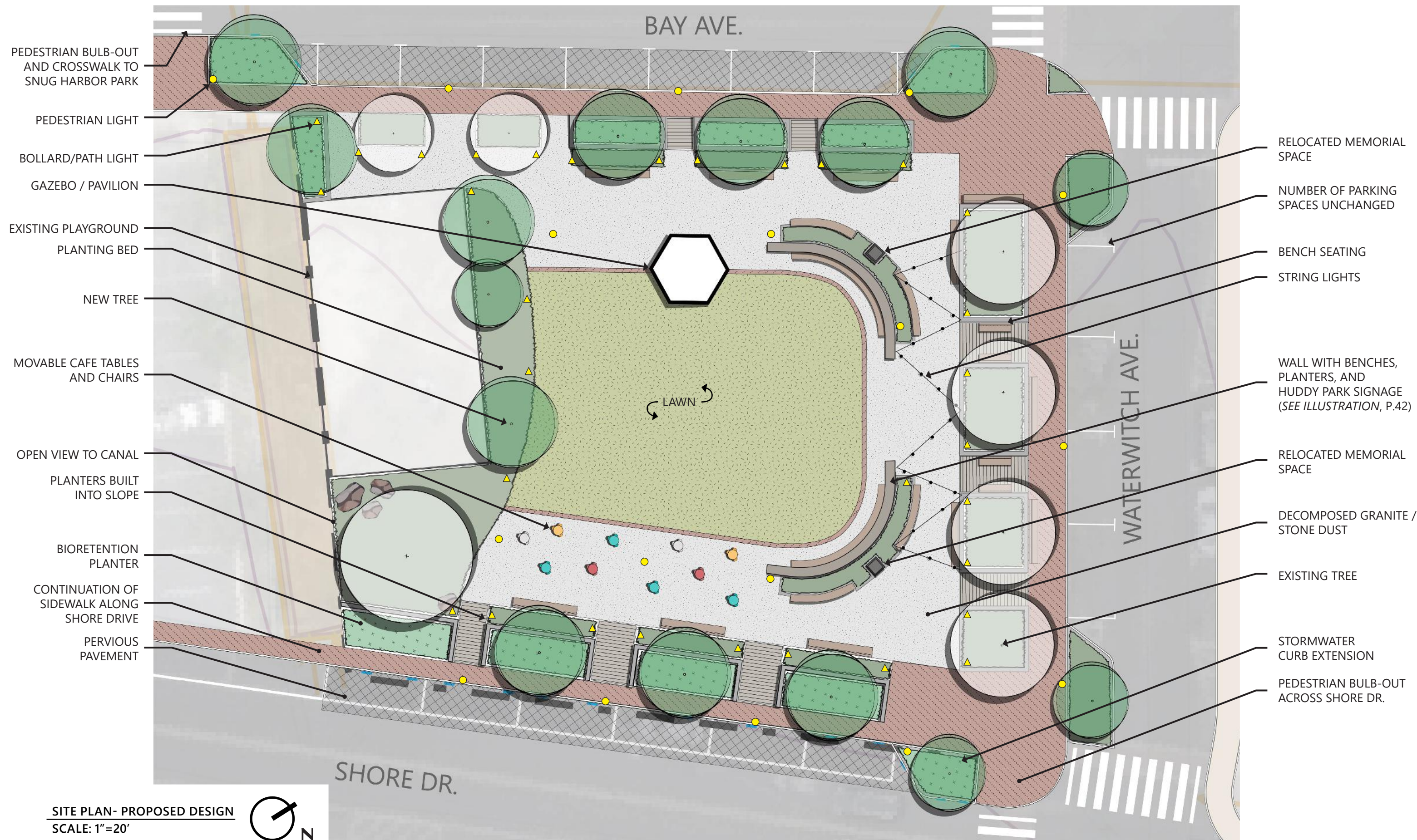
EXISTING CONDITIONS

ANALYSIS

- ENHANCE GATHERING SPACES, PARK USER EXPERIENCE, RUNOFF RETENTION AND ECOLOGY WITH LARGER AND MORE ROBUST PLANTING BEDS.
- EXISTING SPLIT RAIL FENCE LIMITS VISUAL AND PHYSICAL CONNECTION TO PARK .
- NARROW PATHWAYS TO COVERED GAZEBO LIMIT CIRCULATION IN PARK.
- OPPORTUNITY TO CREATE A GATEWAY FEATURE AT SHORE DR. AND WATERWITCH AVE.
- FAST TRAFFIC ALONG SHORE DR. MAY IMPEDE PEDESTRIAN FLOW, OPPORTUNITY TO ENHANCE PEDESTRIAN EXPERIENCE.
- INCLUSION OF MORE PERVIOUS SURFACE AND DIRECTION OF RUNOFF TO DESIGNATED AREAS MAY ALLEVIATE WET LAWN AND SINKING PAVERS.
- OPPORTUNITY TO CREATE CONNECTION TO SHOPS AND BUSINESSES ALONG WATERWITCH AVE.
- ADDITION OF WAYFINDING SIGNAGE WILL HELP ORIENT PARK USERS AND IMPROVE CIRCULATION











AMELANCHIER CANADENSIS- SHADBUSH



ARONIA MELANOCARPA GROUND HUG- BLACK CHOKEBERRY



CAREX AMPHIBOLA- CREEK SEDGE



ILEX OPACA 'MARYLAND DWARF' AMERICAN HOLLY



AMSONIA HUBRICHTII- BLUE STAR



ASTER SPECTABILIS- SHOWY ASTER



DIERVILLA LONICERA- NORTHERN BUSH HONEYSUCKLE



IRIS VERSICOLOR- BLUE FLAG IRIS



ANDROPOGON GERARDII- BIG BLUESTEM



BAPTISIA AUSTRALIS- FALSE INDIGO



HEUCHERA VILLOSA CORAL BELLS



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ARCTOSTAPHYLOS UVA-URSI- BEARBERRY



BETULA NIGRA 'DURA-HEAT'- RIVER BIRCH



HYPERICUM PROLIFICUM- SHRUBBY ST. JOHN'S WORT



JUNCUS EFFUSUS- COMMON RUSH





LIATRIS SPICATA- BLAZING STAR



NYSSA SYLVATICA- TUPELO



PHLOX SUBULATA- MOSS PHLOX



PRUNUS MARITIMA- BEACH PLUM



PYCANTHEMUM MUTICUM- MOUNTAIN MINT



QUERCUS BICOLOR- SWAMP WHITE OAK



RUDBECKIA FULGIDA- CONEFLOWER



RHUS AROMATICA- 'GRO-LOW' FRAGRANT SUMAC



SCHIZACHYRIUM SCOPARIUM- LITTLE BLUESTEM



VIBURNUM NUDUM- SMOOTH VIBURNUM



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GRASS *	ANDROPOGON GERARDII	BIG BLUESTEM
GROUNDCOVER	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY
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GRASS *	CAREX AMPHIBOLA	CREEK SEDGE
SHRUB *	DIERVILLA LONICERA	NORTHERN BUSH HONEYSUCKLE
PERENNIAL *	HEUCHERA VILLOSA	CORAL BELLS
SHRUB *	HYPERICUM PROLIFICUM	ST. JOHN'S WORT
SHRUB	ILEX OPACA 'MARYLAND DWARF'	DWARF AMERICAN HOLLY
PERENNIAL *	IRIS VERSICOLOR	BLUE FLAG IRIS
SHRUB *	ITEA VIRGINICA	SWEETSPIRE
GRASS *	JUNCUS EFFUSUS	COMMON RUSH
PERENNIAL *	LIATRIS SPICATA	BLAZING STAR
TREE *	NYSSA SYLVATICA	TUPELO
GROUNDCOVER	PHLOX SUBULATA	MOSS PHLOX
SHRUB	PRUNUS MARITIMA	BEACH PLUM
GROUNDCOVER	PYCANthemum MUTICUM	MOUNTAIN MINT
TREE *	QUERCUS BICOLOR	SWAMP WHITE OAK
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GRASS *	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
SHRUB *	VIBURNUM NUDUM	VIBURNUM- SMOOTH
* PLANT ALSO APPROPRIATE FOR GREEN INFRASTRUCTURE PLANTING		



SITE IMPROVEMENTS  
**SIGNAGE**





SITE IMPROVEMENTS  
**LIGHTING**



PEDESTRIAN LIGHTING



PATHWAY LIGHTING

- PEDESTRIAN LIGHTING- STYLE: ASHBERY AREA LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED
- PATHWAY LIGHTING- STYLE: ASHBERY PATH LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED



OTHER LIGHTING- STRING LIGHTS

SITE IMPROVEMENTS  
**ELEMENTS**



GREEN ROOF AT GAZEBO



SHELTER AT TRANSIT STOP



SITE IMPROVEMENTS  
ELEMENTS

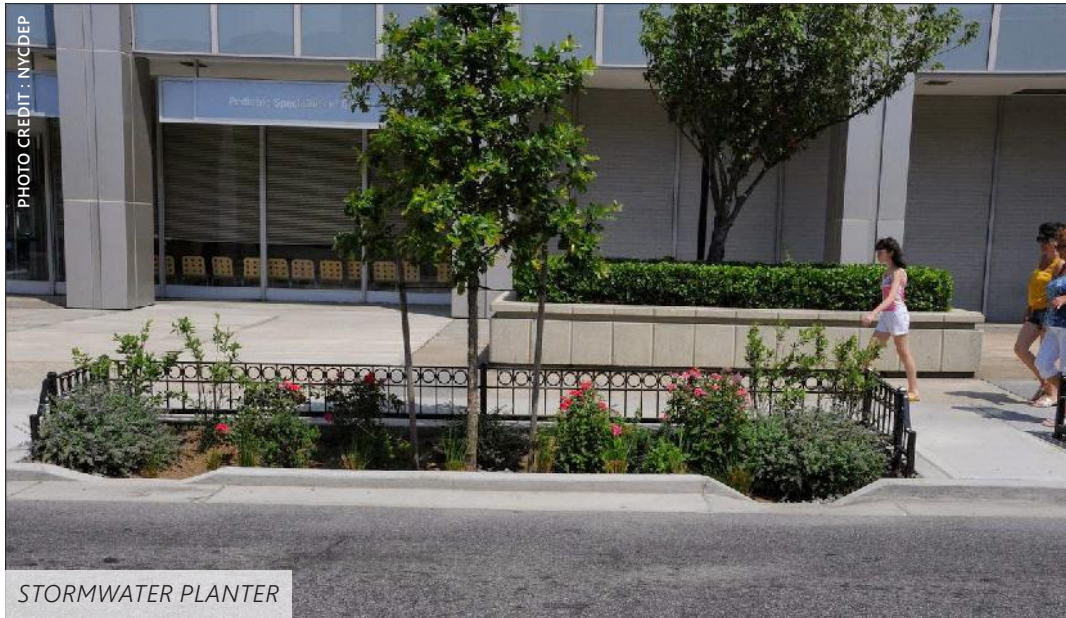




GREEN INFRASTRUCTURE  
ELEMENTS



VEGETATED SWALE



STORMWATER PLANTER



STORMWATER CURB EXTENSION AT TRANSIT STOP



PEDESTRIAN ACCESS OVER VEGETATED SWALE



PERVIOUS PAVEMENT



BIORETENTION PLANTER AT SIDEWALK



GRAPHIC INVENTORY



EXISTING CONDITIONS  
**INVENTORY**

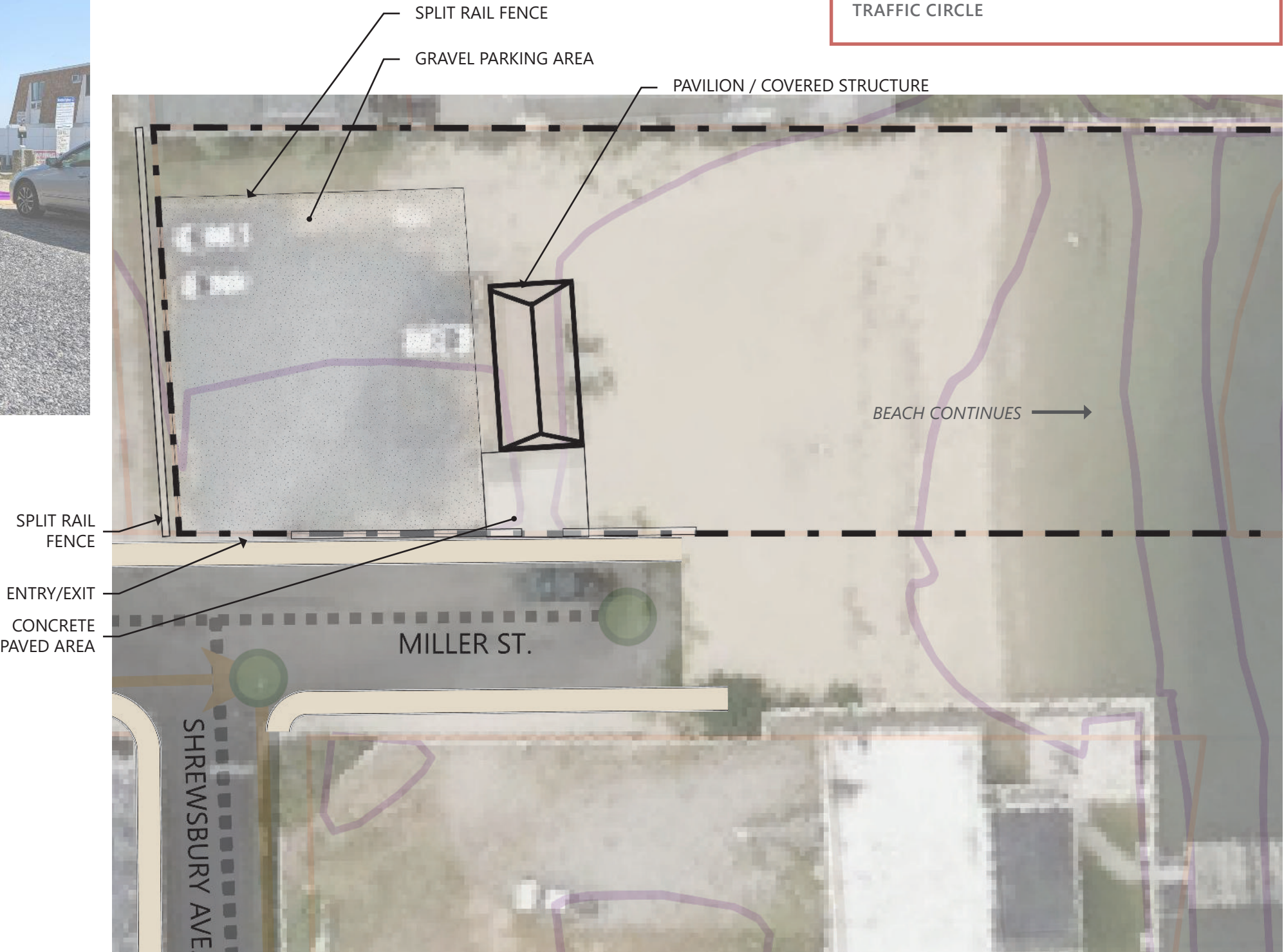
- GRAVEL PARKING AREA, ONE ENTRY/EXIT COMBINED
- PARKING CAN ACCOMMODATE AROUND 12-15 VEHICLES
- PARK SURROUNDED BY FENCE ON ALL SIDES, FENCE TYPES VARY
- ONE COVERED STRUCTURE (PAVILION) WITH BENCHES AND RAMP BEACH
- LIGHTING- ONLY FROM EXISTING (COBRA HEAD) STREET LIGHTS ON ADJACENT MILLER ST. AND SHREWSBURY AVE. NO SITE LIGHTING.
- PLANTING- MINIMAL ORNAMENTAL GRASSES SURROUNDING PATH AND PAVILION.

EXISTING CONDITIONS  
**ANALYSIS**

- PARKING- SURROUNDING AREA PARKING IS LIMITED, THE AMOUNT OF SPACES SHOULD NOT DECREASE.
- REMOVE FENCING (ON SITE, BOROUGH OWNED) WHERE POSSIBLE TO INCREASE VISIBILITY AND CIRCULATION
- LIGHTING- THE ADDITION OF PATHWAY LIGHTING AND OTHER AMBIENT LIGHT FOR WILL HELP TO ILLUMINATE AND WILL PROVIDE INCREASED VISIBILITY INTO PARK.
- PLANTING- SURROUND PARK AREA WITH LARGE PLANTING BEDS, WHICH WILL AID IN EROSION PREVENTION, PROVIDE ECOLOGICAL HABITAT, AND SOFTEN EDGES AT ADJACENT PROPERTIES.
- FURNISHINGS- WOULD BENEFIT FROM FURNISHING AREA WITH DESIGNATED BICYCLE PARKING AND TRASH/RECYCLING RECEPTACLES.
- SIGNAGE- ADD WAYFINDING AND DIRECTIONAL SIGNAGE FOR PEDESTRIANS AND USERS OF PARK, PERHAPS ADDITION OF A COMMUNITY SIGNAGE AREA (KIOSK).
- GREEN INFRASTRUCTURE- CAN BE ADDED THROUGHOUT NEW PLANTING BEDS. IT CAN HELP TO RETAIN RUNOFF ON SITE, AND TREAT CONTAMINANTS BEFORE ENTERING THE WATERWAY.

PHASE II

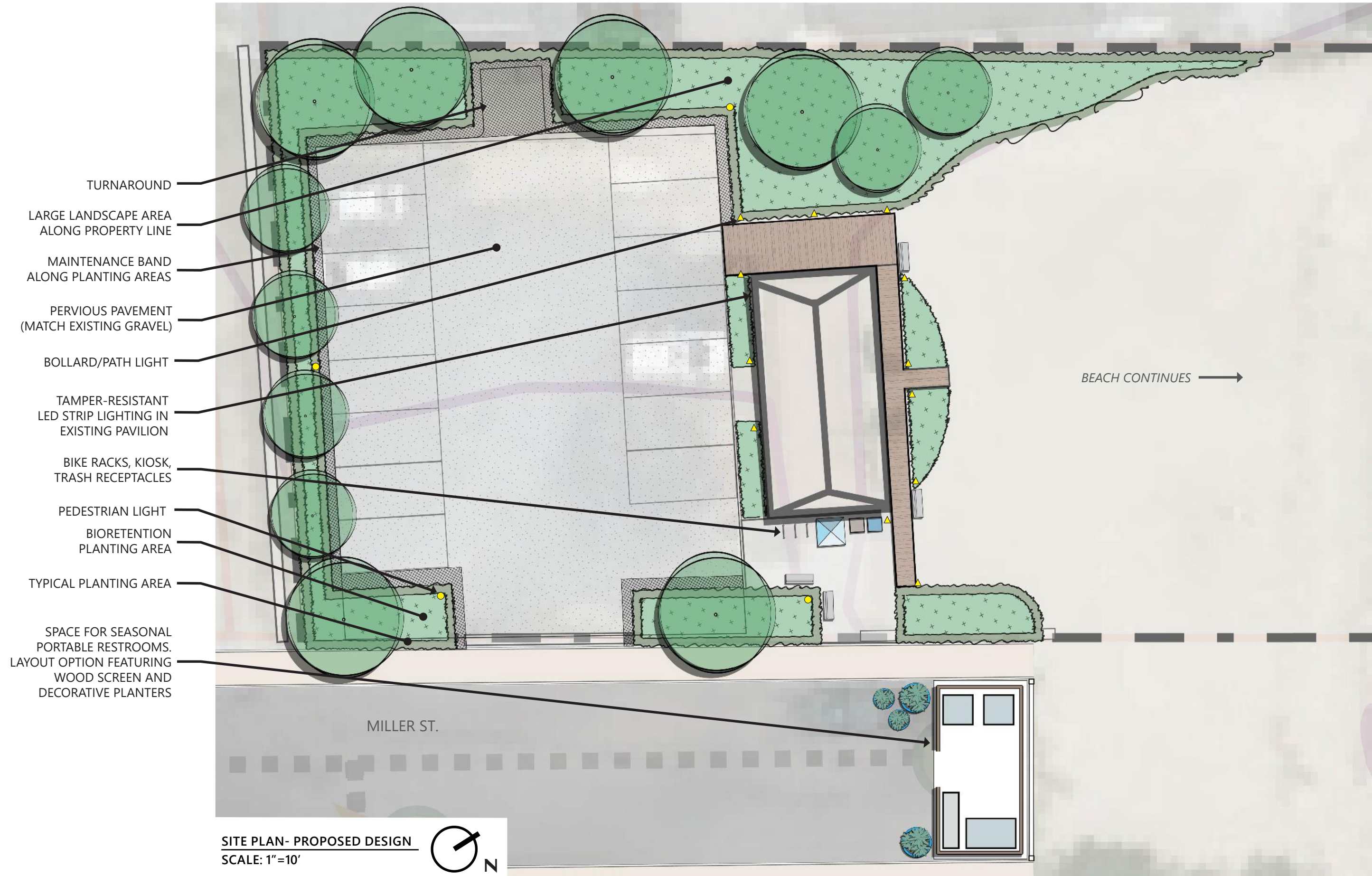
SNUG HARBOR PARK AND BEACH  
HUDDY PARK  
**MILLER STREET BEACH**  
VETERANS MEMORIAL PARK  
EDERLE PARK  
SOUTH BAY AVE. BEACH PARK  
TRAFFIC CIRCLE



**SITE PLAN- EXISTING CONDITION**  
SCALE: 1"=20'









SITE IMPROVEMENTS  
**SIGNAGE**



KIOSK / INFORMATIONAL



INFORMATIONAL / EDUCATIONAL



INFORMATIONAL / EDUCATIONAL

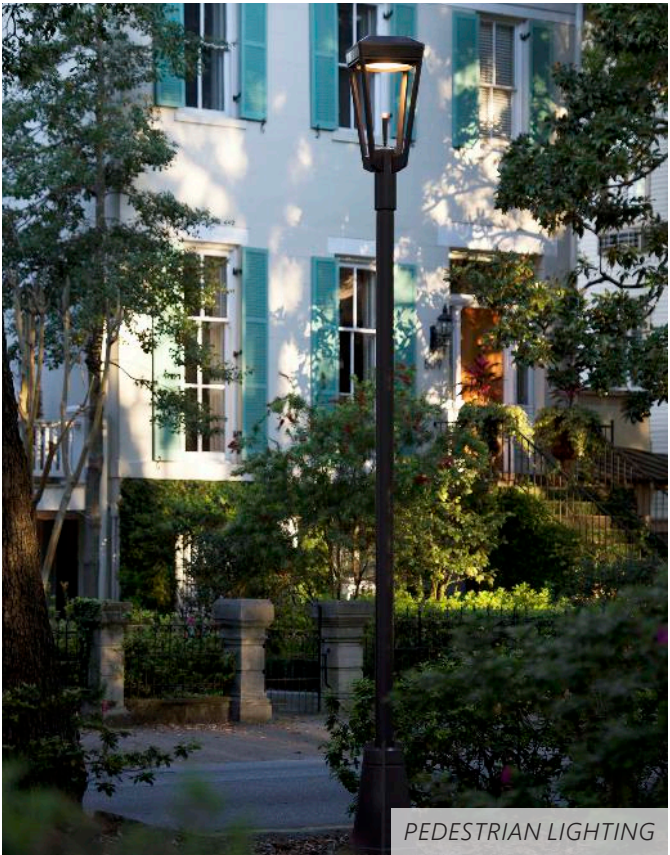


WAYFINDING / DIRECTIONAL



WAYFINDING / DIRECTIONAL

SITE IMPROVEMENTS  
**LIGHTING**



PEDESTRIAN LIGHTING



PATHWAY LIGHTING



OTHER LIGHTING- LED STRIP LIGHTS



OTHER LIGHTING- AMBIENT DOWN LIGHTING

- PEDESTRIAN LIGHTING- STYLE: ASHBERY AREA LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED
- PATHWAY LIGHTING- STYLE: ASHBERY PATH LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED



SITE IMPROVEMENTS  
ELEMENTS



SCREENING FOR SEASONAL RESTROOM



SCREENING FOR SEASONAL RESTROOM

GREEN INFRASTRUCTURE  
ELEMENTS



VEGETATED SWALE



PERVIOUS PAVEMENT



SEASONAL RESTROOM, CONCEALED



SCREENING FOR SEASONAL RESTROOM



MAINTENANCE STRIP AND CURB CUTS AT STORMWATER PLANTER



BIORETENTION PLANTER





AMELANCHIER CANADENSIS- SHADBUSH



AMMOPHILA BREVILIGULATA- AMERICAN BEACH GRASS



ANDROPOGON GERARDII- BIG BLUESTEM



ARCTOSTAPHYLOS UVA-URSI- BEARBERRY



ARONIA MELANOCARPA GROUND HUG- BLACK CHOKEBERRY



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IRIS VERSICOLOR- BLUE FLAG IRIS



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JUNIPERUS HORIZONTALIS 'BAR HARBOR'- CREEPING JUNIPER



JUNIPERUS VIRGINIANA 'GREY OWL'- DWARF EASTERN RED CEDAR

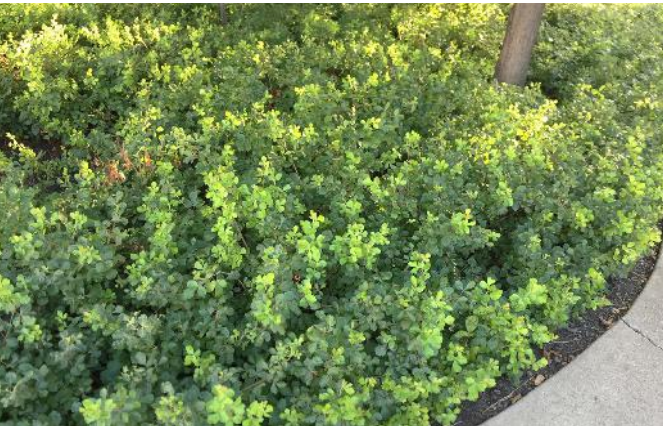




LIATRIS SPICATA- BLAZING STAR



NYSSA SYLVATICA- TUPELO



RHUS AROMATICA- 'GRO-LOW' FRAGRANT SUMAC



SCHIZACHYRIUM SCOPARIUM- LITTLE BLUESTEM



MYRICA PENSYLVANICA- NORTHERN BAYBERRY



PRUNUS MARITIMA- BEACH PLUM



RUDBECKIA FULGIDA- CONEFLOWER



VIBURNUM NUDUM- SMOOTH VIBURNUM

PLANT LIST :

PLANT TYPE	BOTANICAL NAME	COMMON NAME
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GRASS	AMMOPHILA BREVILIGULATA	AMERICAN BEACH GRASS
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PERENNIAL *	HEUCHERA VILLOSA	CORAL BELLS
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SHRUB	MYRICA PENSYLVANICA	BAYBERRY
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SHRUB	PRUNUS MARITIMA	BEACH PLUM
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GRASS *	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
SHRUB *	VIBURNUM NUDUM	VIBURNUM- SMOOTH
* PLANT ALSO APPROPRIATE FOR GREEN INFRASTRUCTURE PLANTING		



- PHASE II

SNUG HARBOR PARK AND BEACH

HUDDY PARK

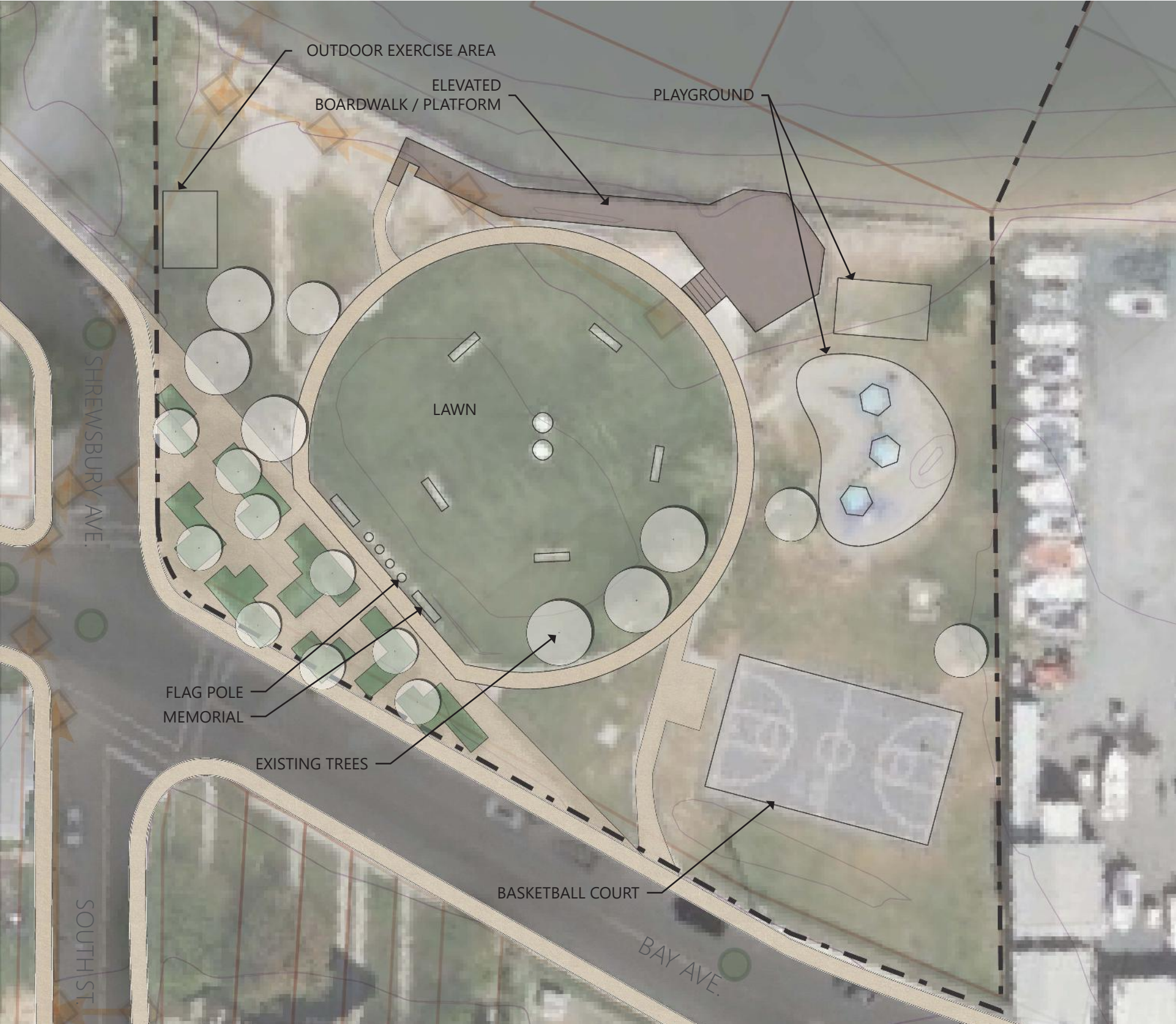
MILLER STREET BEACH

VETERANS MEMORIAL PARK

EDERLE PARK

SOUTH BAY AVE. BEACH PARK

TRAFFIC CIRCLE



SITE PLAN- EXISTING CONDITION

SCALE: 1"=40'

EXISTING CONDITIONS

INVENTORY

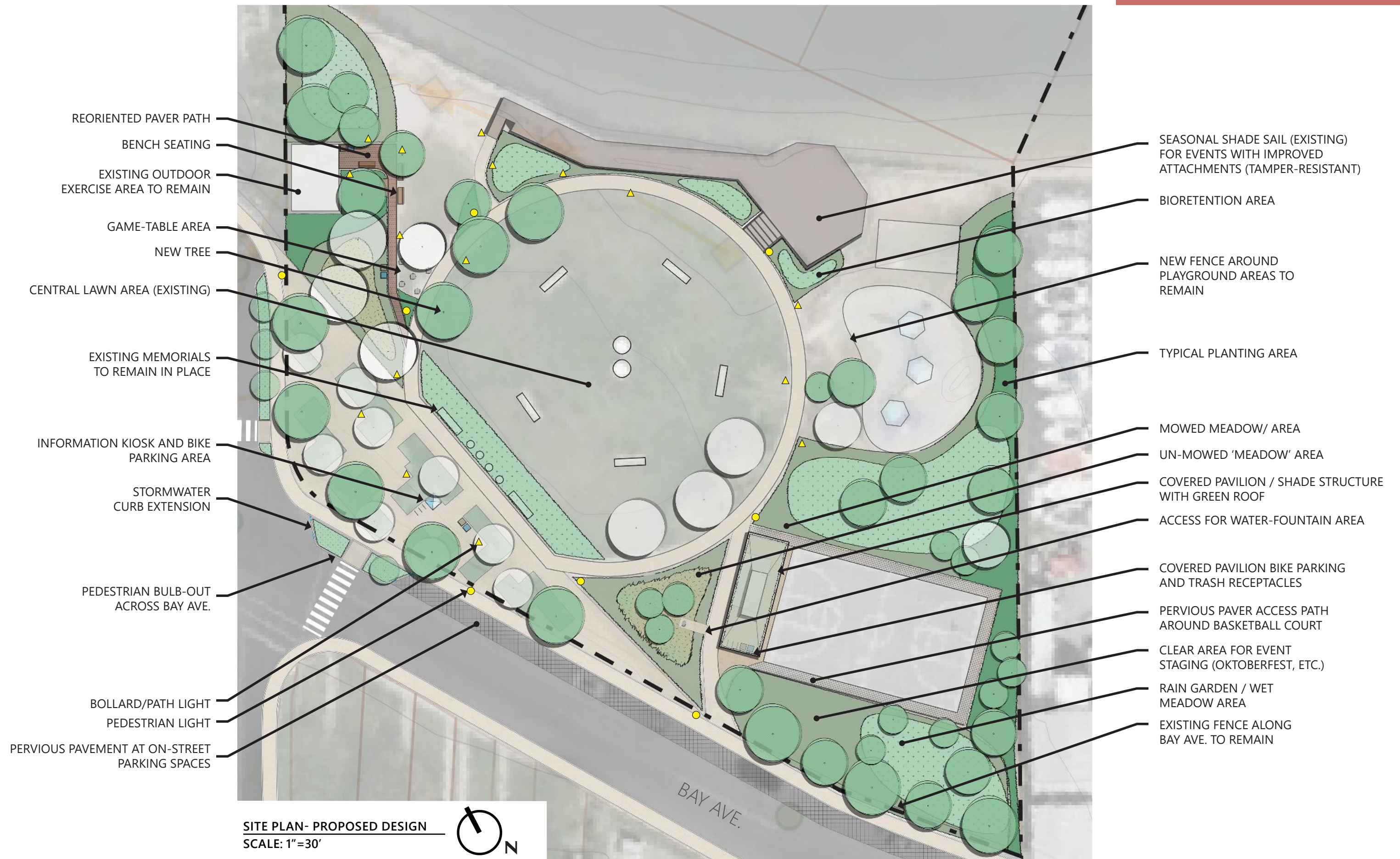
- CIRCULATION- CONCRETE PAVED CIRCULAR PATH AROUND CENTRAL MEMORIAL. CONCRETE PAVED PATH CONNECTING TO BAY. AVE NEAR BASKETBALL COURT, TO THE BOARDWALK, AND BACK TO THE FRONT STAGGERED PLANTER BED AREA.
- NO VEHICLE OR BICYCLE PARKING ON SITE
- EXISTING PROGRAM ELEMENTS INCLUDE A BASKETBALL COURT, SWING SET, FENCED-IN PLAYGROUND, OUTDOOR FITNESS EQUIPMENT WITH RUBBER MULCH
- ELEVATED BOARDWALK AT WATERFRONT
- MEMORIALS- INCLUDE WWI (CANNONS) AND WWII MEMORIALS (MEMORIAL HILL PLAQUE), MEMORIAL GRANITE SCULPTURES ON MOUNDED GRASS AT PARK CENTER,
- FURNISHING- VARIOUS TRASH RECEPTACLES AND VARIOUS BENCH SEATING THROUGHOUT PARK
- PLANTS- GARDEN CLUB MAINTAINS THE STAGGERED PLANTING BEDS AT BAY AVE. THERE ARE BETWEEN 9-12 OTHER SHADE TREES WITHIN LAWN AT REMAINDER OF PARK

EXISTING CONDITIONS

ANALYSIS

- SIGNAGE- ADDITIONAL CLEAR SIGNAGE AND WAYFINDING WILL AID IN CIRCULATION TO PROGRAM AREAS, NEARBY DESTINATIONS, LOCAL BUSINESSES, AND OTHER NEARBY FACILITIES.
- ALL MEMORIALS WILL REMAIN- LIGHTING, SIGNAGE, ETC. WILL BE ENHANCED
- LAWN AREA (CENTER) IS USED ESPECIALLY DURING EVENTS, IT WILL REMAIN
- MATERIALS- RUBBER MULCH WILL FLOAT WITH EXCESS RAINWATER / FLOODING. WOULD SUGGEST USE OF POURED IN PLACE RUBBER SAFETY SURFACING INSTEAD
- FURNISHING- PARK WOULD BENEFIT FROM DESIGNATED BIKE PARKING AND TRASH AND RECYCLING RECEPTACLE AREAS, PICNIC TABLES / LOUNGE SEATING IN ADDITION TO THE EXISTING BENCHES
- LIGHTING- PEDESTRIAN LIGHTING AND PATHWAY LIGHTING WILL INCREASE SAFETY AND EASE OF NAVIGATION.
- GREEN INFRASTRUCTURE- INCLUSION OF MORE PERVIOUS SURFACE AND DIRECTION OF RUNOFF TO VEGETATED SWALE BEFORE ENTERING CANAL CAN HELP WITH STORMWATER QUALITY.
- PLANTING- ADDITION OF LARGE PLANTING BEDS AT PARK EDGES, NEAR WATERFRONT, AND WITHIN PARK BOUNDARY WILL ENHANCE GATHERING SPACES, PARK USER EXPERIENCE, RUNOFF RETENTION AND ECOLOGY.
- TREES- ADDITION OF SHADE TREES WITHIN PARK AND SURROUNDING EDGES
- GREEN INFRASTRUCTURE- CAN BE ADDED THROUGHOUT NEW PLANTING BEDS TO HELP RETAIN RUNOFF ON-SITE AND TREAT CONTAMINANTS BEFORE ENTERING THE WATERWAY. INCLUSION OF MORE PERVIOUS SURFACE AND DIRECTION OF RUNOFF TO DESIGNATED AREAS MAY ALLEVIATE SINKING IN LAWN AND PAVER AREAS



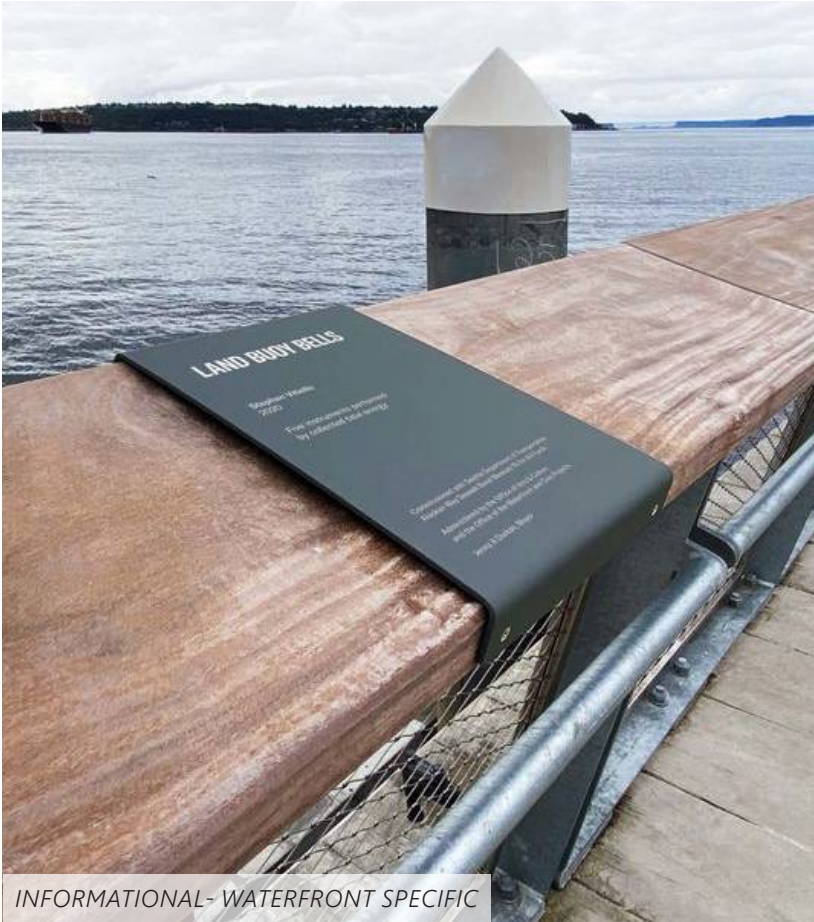




SITE IMPROVEMENTS  
**SIGNAGE**



GATEWAY / MEMORIAL



INFORMATIONAL - WATERFRONT SPECIFIC



SHELTER AND WAYFINDING AT TRANSIT STOP



INFORMATIONAL / EDUCATIONAL



KIOSK / INFORMATIONAL



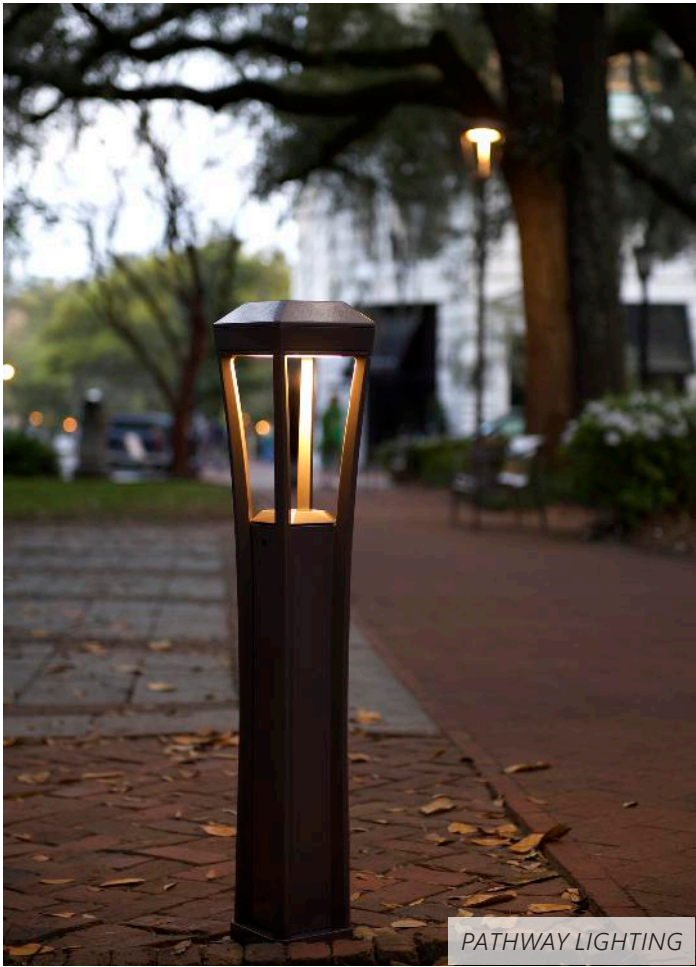
WAYFINDING / DIRECTIONAL



WAYFINDING / DIRECTIONAL



SITE IMPROVEMENTS  
**LIGHTING**



PATHWAY LIGHTING

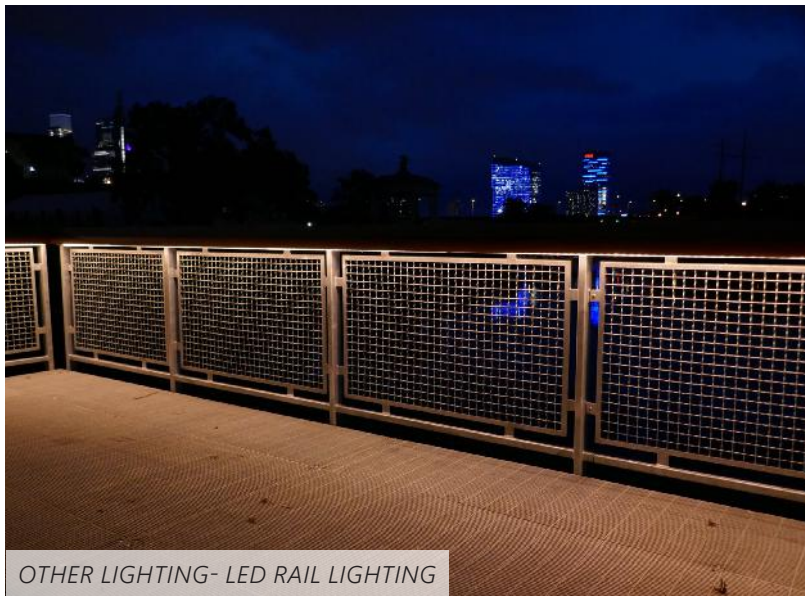


PEDESTRIAN LIGHTING

- PEDESTRIAN LIGHTING- STYLE: ASHBERY AREA LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED
- PATHWAY LIGHTING- STYLE: ASHBERY PATH LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED



OTHER LIGHTING- AMBIENT DOWN LIGHTING



OTHER LIGHTING- LED RAIL LIGHTING

SITE IMPROVEMENTS  
**ELEMENTS**



GREEN ROOF AT GAZEBO



SUN LOUNGE CHAIRS



GREEN INFRASTRUCTURE  
ELEMENTS







AMELANCHIER CANADENSIS- SHADBUSH



AMMOPHILA BREVILIGULATA- AMERICAN BEACH GRASS



AMSONIA HUBRICHTII- BLUE STAR



ANDROPOGON GERARDII- BIG BLUESTEM



ARCTOSTAPHYLOS UVA-URSI- BEARBERRY



ARONIA MELANOCARPA GROUND HUG- BLACK CHOKEBERRY



ASCLEPIAS TUBEROSA- MILKWEED



ASTER SPECTABILIS- SHOWY ASTER



BAPTISIA AUSTRALIS- FALSE INDIGO



BETULA NIGRA 'DURA-HEAT'- RIVER BIRCH



CAREX AMPHIBOLA- CREEK SEDGE



CERCIS CANADENSIS- EASTERN REDBUD



COREOPSIS LANCEOLATA- TICKSEED



DIERVILLA LONICERA- NORTHERN BUSH HONEYSUCKLE



HEUCHERA VILLOSA CORAL BELLS



HYPERICUM PROLIFICUM- SHRUBBY ST. JOHN'S WORT





ILEX OPACA 'MARYLAND DWARF AMERICAN HOLLY



IRIS VERSICOLOR- BLUE FLAG IRIS



ITEA VIRGINICA- SWEETSPIRE



JUNCUS EFFUSUS- COMMON RUSH



JUNIPERUS HORIZONTALIS 'BAR HARBOR'- CREEPING JUNIPER



JUNIPERUS VIRGINIANA 'GREY OWL'- DWARF EASTERN RED CEDAR



LIATRIS SPICATA- BLAZING STAR



MYRICA PENSYLVANICA- NORTHERN BAYBERRY



NYSSA SYLVATICA- TUPELO



PHLOX SUBULATA- MOSS PHLOX



PRUNUS MARITIMA- BEACH PLUM



QUERCUS BICOLOR- SWAMP WHITE OAK



RHUS AROMATICA- 'GRO-LOW' FRAGRANT SUMAC



RUDBECKIA FULGIDA- CONEFLOWER



SCHIZACHYRIUM SCOPARIUM- LITTLE BLUESTEM



VIBURNUM NUDUM- SMOOTH VIBURNUM

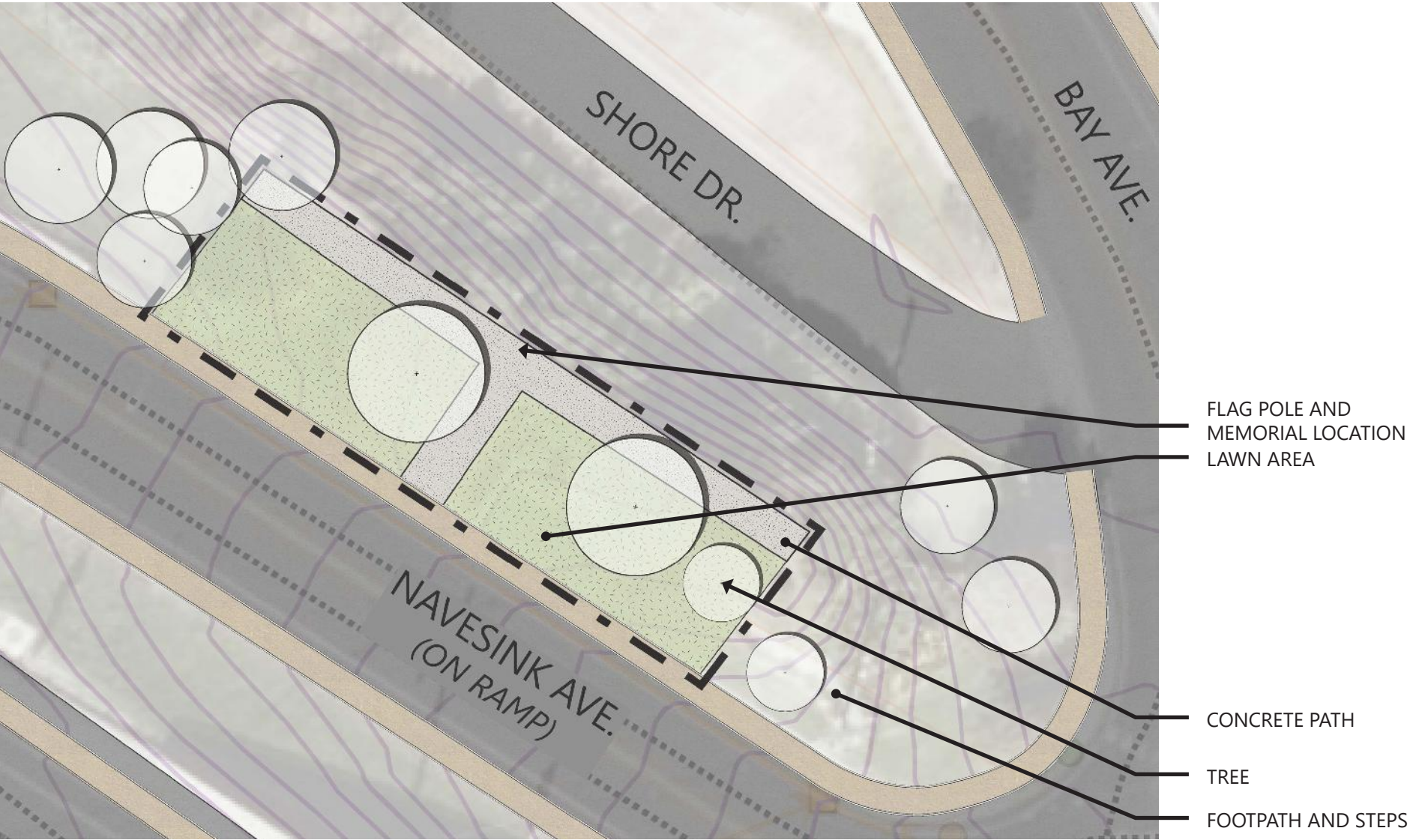


PLANT LIST :

PLANT TYPE	BOTANICAL NAME	COMMON NAME
SMALL TREE	AMELANCHIER CANADENSIS	SHADBUSH
GRASS	AMMOPHILA BREVILIGULATA	AMERICAN BEACH GRASS
PERENNIAL *	AMSONIA HUBRICHTII	BLUE STAR
GRASS *	ANDROPOGON GERARDII	BIG BLUESTEM
GROUNDCOVER	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY
GROUNDCOVER	ARONIA MELANOCARPA GROUND HUG	BLACK CHOKEBERRY
PERENNIAL	ASCLEPIAS TUBEROSA	MILKWEED
PERENNIAL	ASTER SPECTABILIS	SHOWY ASTER
PERENNIAL	BAPTISIA AUSTRALIS	FALSE INDIGO
TREE *	BETULA NIGRA 'DURA-HEAT'	RIVER BIRCH
GRASS *	CAREX AMPHIBOLA	CREEK SEDGE
TREE	CERCIS CANADENSIS	EASTERN REDBUD
PERENNIAL	COREOPSIS LANCEOLATA	TICKSEED
SHRUB *	DIERVILLA LONICERA	NORTHERN BUSH HONEYSUCKLE
PERENNIAL *	HEUCHERA VILLOSA	CORAL BELLS
SHRUB *	HYPERICUM PROLIFICUM	ST. JOHN'S WORT
SHRUB	ILEX OPACA 'MARYLAND DWARF'	DWARF AMERICAN HOLLY
PERENNIAL *	IRIS VERSICOLOR	BLUE FLAG IRIS
SHRUB	ITEA VIRGINICA	SWEETSPIRE

GRASS *	JUNCUS EFFUSUS	COMMON RUSH
GROUNDCOVER	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	CREEPING JUNIPER
SHRUB	JUNIPERUS VIRGINIANA 'GREY OWL'	EASTERN RED CEDAR 'GREY OWL'
PERENNIAL *	LIATRIS SPICATA	BLAZING STAR
SHRUB	MYRICA PENSYLVANICA	NORTHERN BAYBERRY
TREE *	NYSSA SYLVATICA	TUPELO
GROUNDCOVER	PHLOX SUBULATA	MOSS PHLOX
SHRUB	PRUNUS MARITIMA	BEACH PLUM
TREE *	QUERCUS BICOLOR	SWAMP WHITE OAK
GROUNDCOVER	RHUS AROMATICA 'GRO-LOW'	FRAGRANT SUMAC
PERENNIAL *	RUDBECKIA FULGIDA	BLACK-EYED SUSAN
GRASS *	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
SHRUB *	VIBURNUM NUDUM	VIBURNUM- SMOOTH
* PLANT ALSO APPROPRIATE FOR GREEN INFRASTRUCTURE PLANTING		





SITE PLAN- EXISTING CONDITION

SCALE: 1"=40'



EXISTING CONDITIONS

INVENTORY

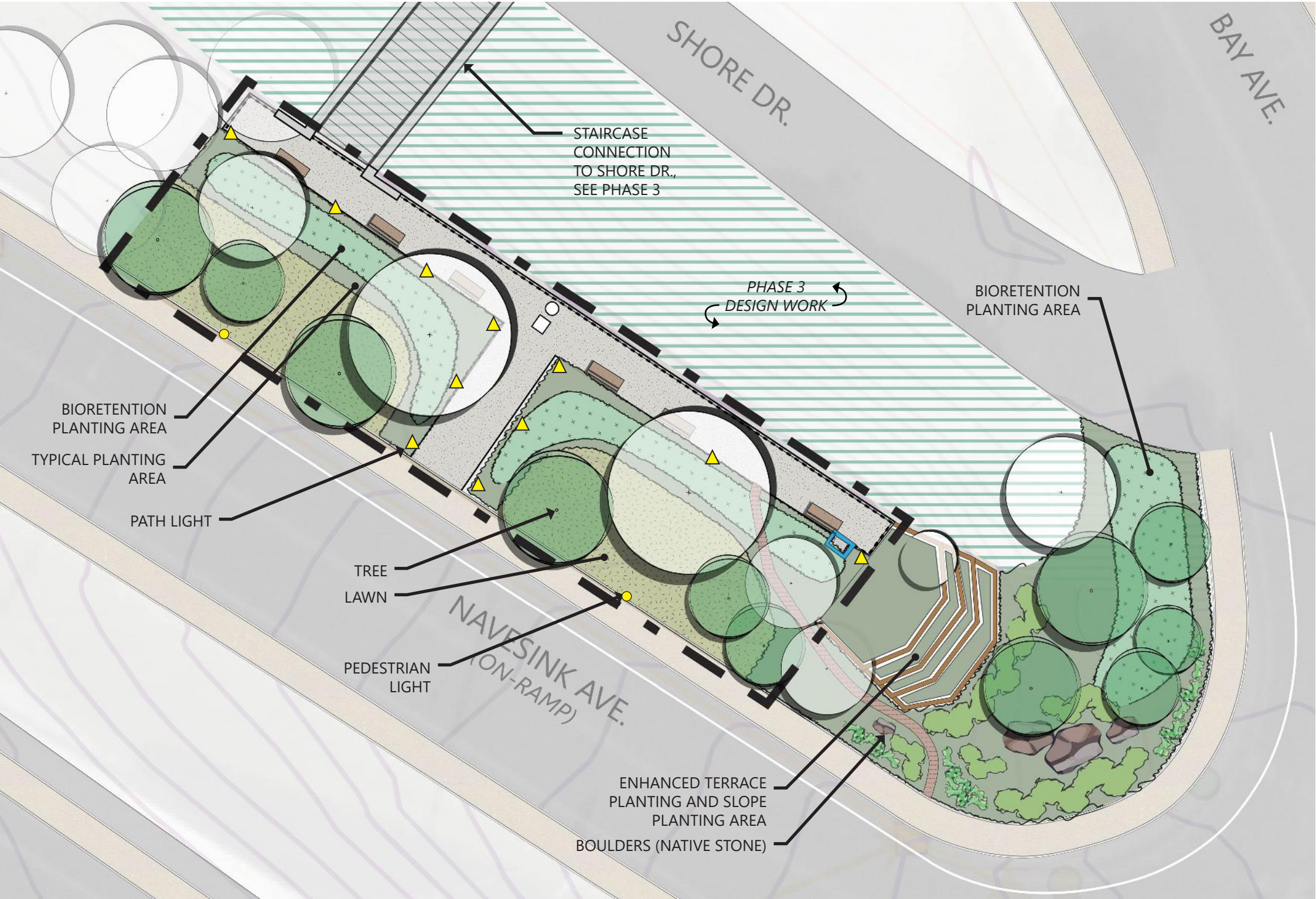
- CIRCULATION- FOOTPATH LEADING FROM BOTTOM OF PARK NEAR BAY AVE. TO FRONT OF EDERLE PARK, ALSO SIDEWALK ACCESS ALONGSIDE PARK, FROM BAY AVE. TO MEMORIAL PARKWAY.
- NO VEHICLE OR BICYCLE PARKING
- CLEAR VIEW FROM TOP OF PARK TO THE BAY
- LIGHTING- EXISTS AT FLAGPOLE ONLY
- MEMORIAL- GERTRUDE EDERLE MEMORIAL AND FLAG POLE AT CENTER OF PARK.
- FURNISHING- BENCH SEATING (QTY. 6) AND TRASH RECEPTACLE (QTY. 1) AVAILABLE ALONGSIDE CONCRETE PATH IN PARK.
- PLANTS- PERENNIAL BEDS WITH SHRUBS AND SHADE TREES; LAWN AREA.

EXISTING CONDITIONS

ANALYSIS

- THIS PARK IS ACCESSIBLE TO PEDESTRIANS PASSING BY, AND VISIBLE TO VEHICLES APPROACHING HIGHLANDS BOROUGH FROM MEMORIAL PARKWAY.
- THE PARK CAN ALSO BE VIEWED FROM BAY AVE.
- THE PARK PAVING, DRAINAGE AND NORTH-FACING SLOPE HAS UNDERGONE RECENT RENOVATIONS.
- LIGHTING- ADDITIONAL PATHWAY LOW/AMBIENT LIGHTING WOULD BE BENEFICIAL
- PLANTING- MAINTAIN PLANTING BEDS AS ARRANGED BY PREVIOUS DESIGNS AND GARDEN CLUB. SUGGEST SMALL DESIGN CHANGES THAT WILL SIMPLIFY MAINTENANCE. PROPOSE UPDATED PLANTING PALETTE.
- ADD PLANTING AREA AT BOTTOM OF SLOPE (SEE PROPOSED DESIGN)
- TREES- ADDITION OF SHADE TREES BEHIND SEATING AREA (MAINTAIN VIEW).
- SIGNAGE- ADD WAYFINDING AND DIRECTIONAL SIGNAGE FOR PARK USERS AND PEDESTRIANS.
- GREEN INFRASTRUCTURE- CAN BE ADDED IN ENHANCED PLANTING BEDS.





SITE PLAN- PROPOSED DESIGN  
SCALE: 1"=20'





SITE IMPROVEMENTS  
**SIGNAGE**



WAYFINDING / DIRECTIONAL



WAYFINDING / DIRECTIONAL

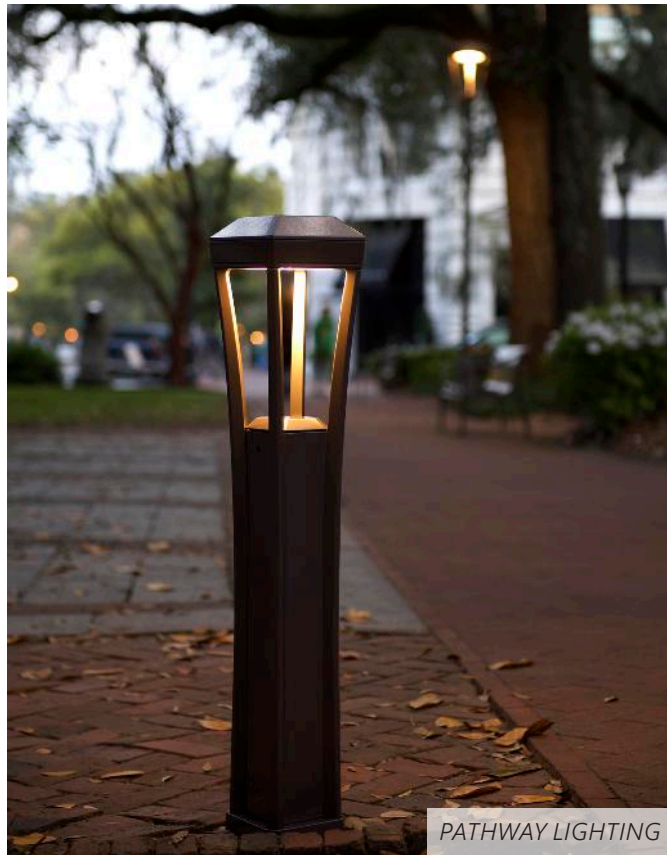


INFORMATIONAL / EDUCATIONAL

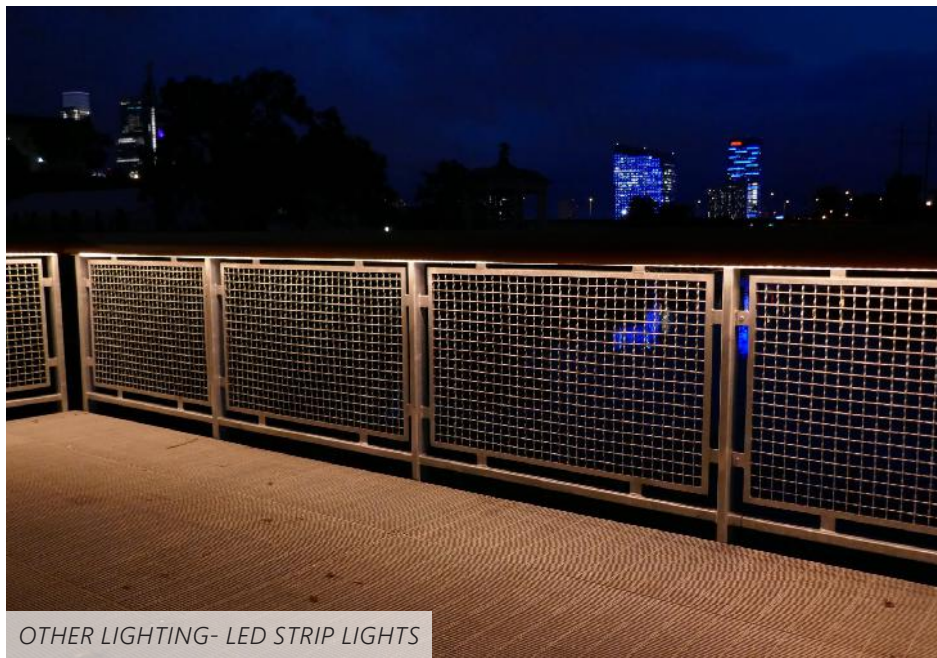
SITE IMPROVEMENTS  
**LIGHTING**



PEDESTRIAN LIGHTING



PATHWAY LIGHTING



OTHER LIGHTING- LED STRIP LIGHTS

GREEN INFRASTRUCTURE  
**ELEMENTS**



BIORETENTION PLANTER

- PEDESTRIAN LIGHTING-  
STYLE: ASHBERY AREA LIGHT',  
MANUFACTURER: LANDSCAPE FORMS;  
DARK SKY APPROVED
- PATHWAY LIGHTING- STYLE:  
ASHBERY PATH LIGHT',  
MANUFACTURER: LANDSCAPE FORMS;  
DARK SKY APPROVED





AMELANCHIER CANADENSIS- SHADBUSH



AMSONIA HUBRICHTII- BLUE STAR



ANDROPOGON GERARDII- BIG BLUESTEM



ARCTOSTAPHYLOS UVA-URSI- BEARBERRY



ARONIA MELANOCARPA GROUND HUG- BLACK CHOKEBERRY



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ASTER SPECTABILIS- SHOWY ASTER



BAPTISIA AUSTRALIS- FALSE INDIGO



CEANOTHUS AMERICANUS- NEW JERSEY TEA



CERCIS CANADENSIS- EASTERN REDBUD



DIERVILLA LONICERA- NORTHERN BUSH HONEYSUCKLE



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ITEA VIRGINICA- SWEETSPIRE



JUNIPERUS HORIZONTALIS 'BAR HARBOR'- CREEPING JUNIPER





LIATRIS SPICATA- BLAZING STAR



PHLOX SUBULATA- MOSS PHLOX



RHUS AROMATICA- 'GRO-LOW' FRAGRANT SUMAC



SCHIZACHYRIUM SCOPARIUM- LITTLE BLUESTEM



MYRICA PENSYLVANICA- NORTHERN BAYBERRY



PYCANTHEMUM MUTICUM- MOUNTAIN MINT



RUDBECKIA FULGIDA- CONEFLOWER

PLANT LIST :

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SMALL TREE	AMELANCHIER CANADENSIS	SHADBUSH
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GRASS *	ANDROPOGON GERARDII	BIG BLUESTEM
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SHRUB *	HYPERICUM PROLIFICUM	ST. JOHN'S WORT
SHRUB	ILEX OPACA 'MARYLAND DWARF'	DWARF AMERICAN HOLLY
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GROUNDCOVER	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	CREeping JUNIPER
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SHRUB	MYRICA PENSYLVANICA	BAYBERRY
GROUNDCOVER	PHLOX SUBULATA	MOSS PHLOX
GROUNDCOVER	PYCANTHEMUM MUTICUM	MOUNTAIN MINT
GROUNDCOVER	RHUS AROMATICA 'GRO-LOW'	FRAGRANT SUMAC
PERENNIAL *	RUDBECKIA FULGIDA	BLACK-EYED SUSAN
GRASS *	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
* PLANT ALSO APPROPRIATE FOR GREEN INFRASTRUCTURE PLANTING		



MEMORIAL PARKWAY  
BRIDGE

STAIRS TO BEACH

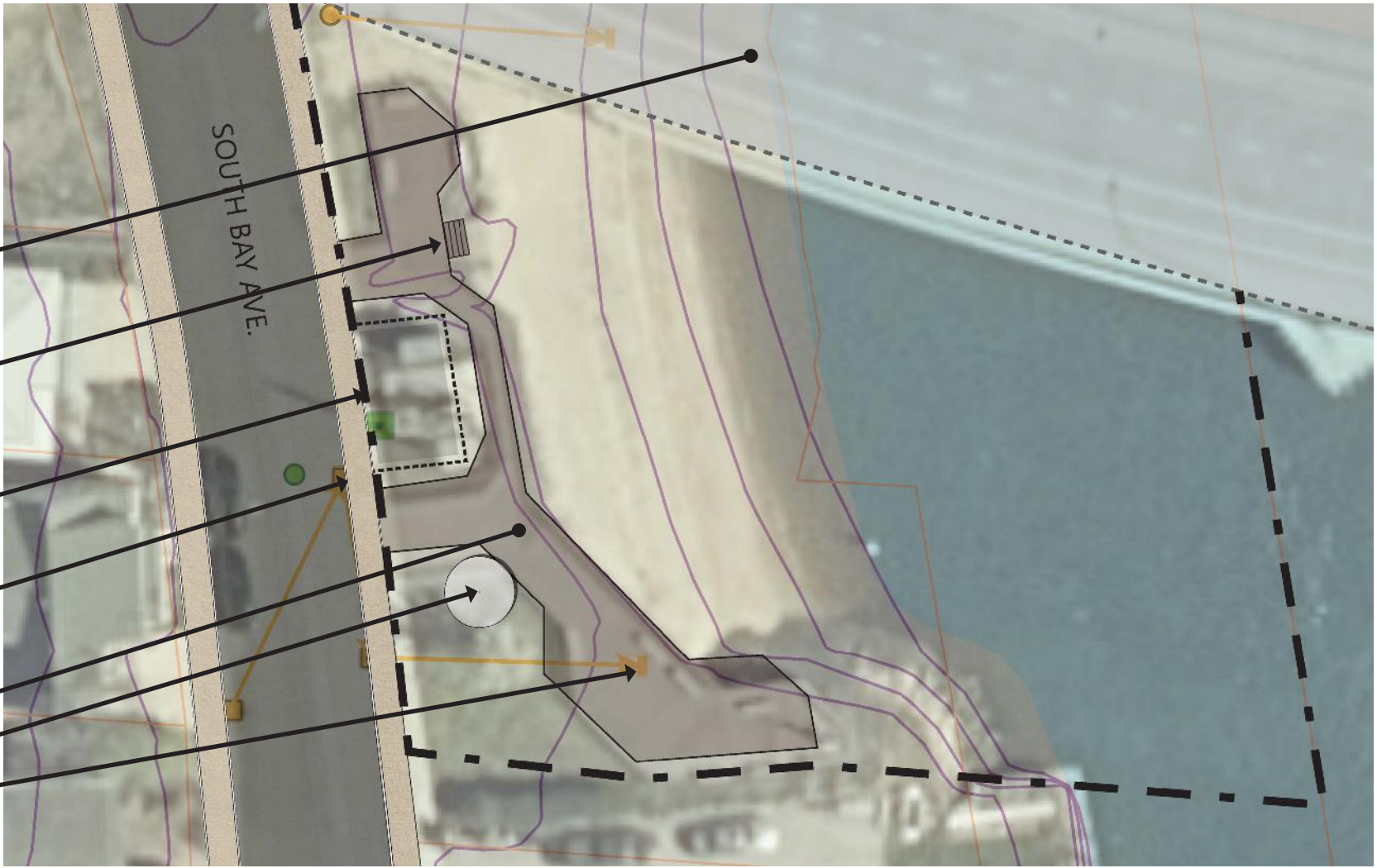
CHAINLINK FENCING  
AROUND PUBLIC  
WORKS / PUMP

STORM DRAIN INLET

BOARDWALK

TREE

EXCESSIVE EROSION  
AT MOUTH OF  
STORMWATER OUTLET  
UNDER BOARDWALK



**SITE PLAN- EXISTING CONDITION**  
SCALE: 1"=30'



EXISTING CONDITIONS  
**INVENTORY**

- CIRCULATION- TWO FLUSH PEDESTRIAN ENTRANCES TO BOARDWALK FROM SIDEWALK WITH ONE SET OF STEPS DOWN TO BEACH
- SIGNAGE- PARK RULES, STRONG CURRENT WARNING, PARKING SIGN, NO WAYFINDING OR DIRECTIONAL SIGNAGE IN PARK
- VEHICULAR PARKING- ON-STREET PARKING AVAILABLE; NO BIKE RACKS OR BIKE FACILITIES
- LIGHTING- FROM NEARBY STREET-LIGHTING (COBRA HEADS)
- FURNISHING- BENCH SEATING (QTY. 12) AND TRASH RECEPTACLE (QTY. 1) AVAILABLE ON LARGE BOARDWALK AREA.
- PLANTS- LAWN AREA ALONG SOUTH. BAY AVE., ONE ORNAMENTAL TREE, STRIP OF LAWN AROUND PUBLIC WORKS/GENERATOR.
- STORMWATER- STORM DRAIN AT CURB. EXCESSIVE EROSION VISIBLE AT OUTLET LOCATED UNDER BOARDWALK

EXISTING CONDITIONS  
**ANALYSIS**

- SIGNAGE- ADD WAYFINDING AND DIRECTIONAL SIGNAGE FOR PEDESTRIANS AND USERS OF PARK.
- LIGHTING- ADDITION OF PEDESTRIAN LIGHTING, PATHWAY/BOLLARD LIGHTING, AND POSSIBLY LED LIGHTING AT BOARDWALK RAIL WOULD INCREASE VISIBILITY INTO PARK, AND PROVIDE BENEFIT FOR PARK USERS
- PLANTING- ADD PLANTING IN FRONT OF ELEVATED BOARDWALK ON BEACH. REPLACE EXISTING LAWN WITH LARGE PLANTING BEDS, WHICH WILL AID IN EROSION PREVENTION, PROVIDE ECOLOGICAL HABITAT, AND SOFTEN EDGES AT ADJACENT PROPERTIES. ADDITION OF ORNAMENTAL SHADE TREES WILL BE BENEFICIAL WITHOUT OBSCURING VIEW OF NEIGHBORING PROPERTIES
- FURNISHING- PARK WOULD BENEFIT FROM ADDITION OF BICYCLE PARKING AND RECYCLING RECEPTACLES, PICNIC TABLE / LOUNGE SEATING IN ADDITION TO THE EXISTING BENCHES WOULD PROVIDE MORE OPPORTUNITY TO ENJOY VIEWS OF RIVER. ADDITION OF FISHING BAIT STATION/BOARD WOULD BENEFIT FISHERS WHO USE THE PARK.
- SIGNAGE- ADD WAYFINDING AND DIRECTIONAL SIGNAGE FOR PARK USERS AND PEDESTRIANS.
- GREEN INFRASTRUCTURE- CAN BE ADDED THROUGHOUT NEW PLANTING BEDS TO HELP RETAIN RUNOFF ON SITE, AND TREAT CONTAMINANTS BEFORE ENTERING THE RIVER. ADD ENERGY DISSIPATER TO PREVENT FURTHER EROSION FROM MAIN OUTLET .

**PHASE II**

- SNUG HARBOR PARK AND BEACH
- HUDDY PARK
- MILLER STREET BEACH
- VETERANS MEMORIAL PARK
- EDERLE PARK
- SOUTH BAY AVE. BEACH PARK**
- TRAFFIC CIRCLE



SITE PHOTO



SITE PHOTO







GREEN INFRASTRUCTURE  
ELEMENTS



STORMWATER PLANTER AND TREE WITH PERVIOUS PAVING

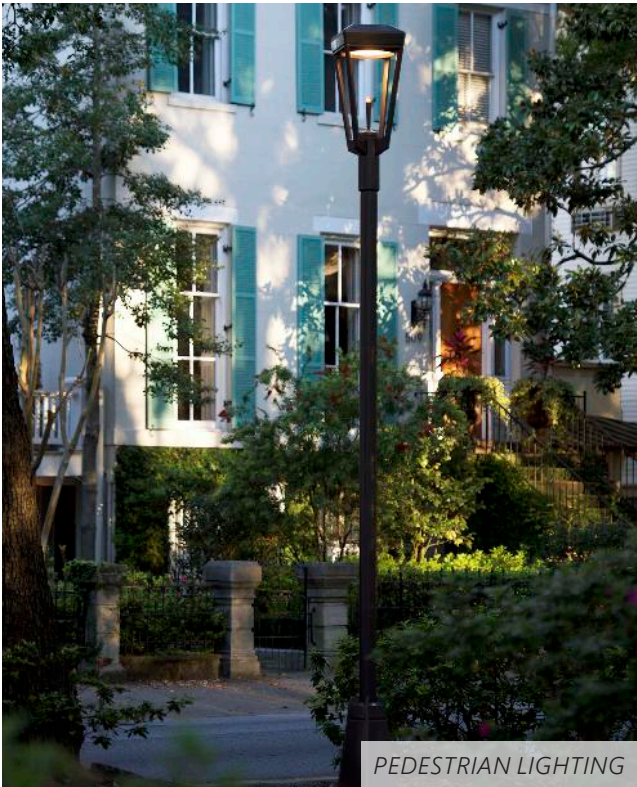


BIORETENTION PLANTER



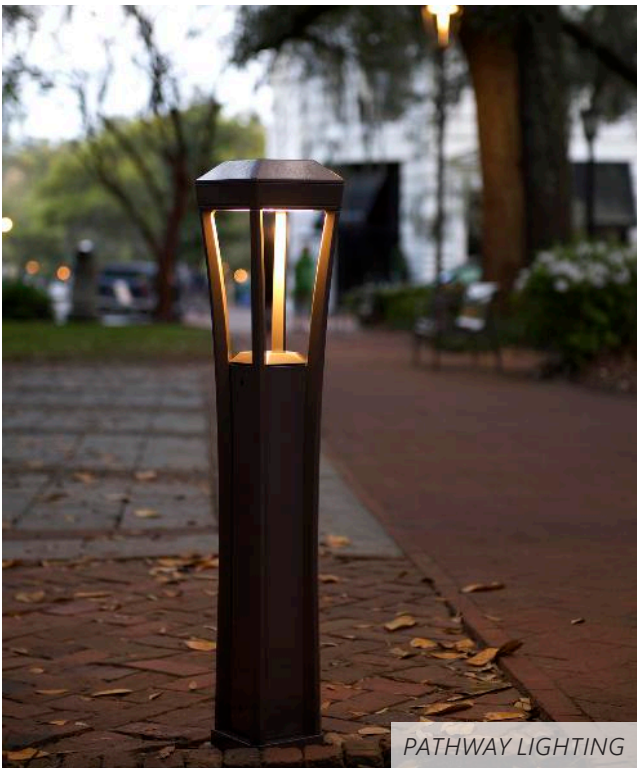
BIORETENTION PLANTER AT SIDEWALK

SITE IMPROVEMENTS  
LIGHTING



PEDESTRIAN LIGHTING

- PEDESTRIAN LIGHTING- STYLE: ASHBURY AREA LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED
- PATHWAY LIGHTING- STYLE: ASHBURY PATH LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED



PATHWAY LIGHTING

SITE IMPROVEMENTS  
SIGNAGE



WAYFINDING / DIRECTIONAL



INFORMATIONAL



WAYFINDING

SITE IMPROVEMENTS  
ELEMENTS



SUN LOUNGE CHAIRS



SITE-SPECIFIC SIGNAGE AND AMENITIES





AMELANCHIER CANADENSIS- SHADBUSH



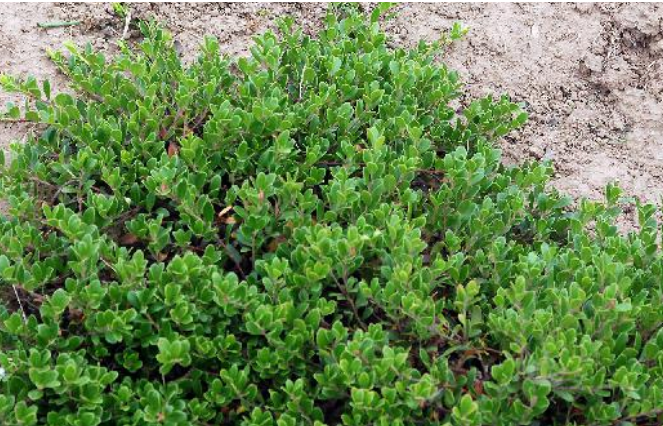
AMMOPHILA BREVILIGULATA- AMERICAN BEACH GRASS



AMSONIA HUBRICHTII- BLUE STAR



ANDROPOGON GERARDII- BIG BLUESTEM



ARCTOSTAPHYLOS UVA-URSI- BEARBERRY



ARONIA MELANOCARPA GROUND HUG- BLACK CHOKEBERRY



ASTER SPECTABILIS- SHOWY ASTER



BAPTISIA AUSTRALIS- FALSE INDIGO



BETULA NIGRA 'DURA-HEAT'- RIVER BIRCH



CERCIS CANADENSIS- EASTERN REDBUD



COREOPSIS LANCEOLATA- TICKSEED



DIERVILLA LONICERA- NORTHERN BUSH HONEYSUCKLE



EUPATORIUM FISTULOSUM- JOE PYE WEED



HEUCHERA VILLOSA CORAL BELLS



HYPERICUM PROLIFICUM- SHRUBBY ST. JOHN'S WORT



IRIS VERSICOLOR- BLUE FLAG IRIS





ITEA VIRGINICA- SWEETSPIRE



JUNCUS EFFUSUS- COMMON RUSH



JUNIPERUS HORIZONTALIS 'BAR HARBOR'- CREEPING JUNIPER



JUNIPERUS VIRGINIANA 'GREY OWL'- DWARF EASTERN RED CEDAR



LIATRIS SPICATA- BLAZING STAR



MYRICA PENNSYLVANICA- NORTHERN BAYBERRY



NYSSA SYLVATICA- TUPELO



PRUNUS MARITIMA- BEACH PLUM



RHUS AROMATICA- 'GRO-LOW' FRAGRANT SUMAC



RUDBECKIA FULGIDA- CONEFLOWER



SCHIZACHYRIUM SCOPARIUM- LITTLE BLUESTEM



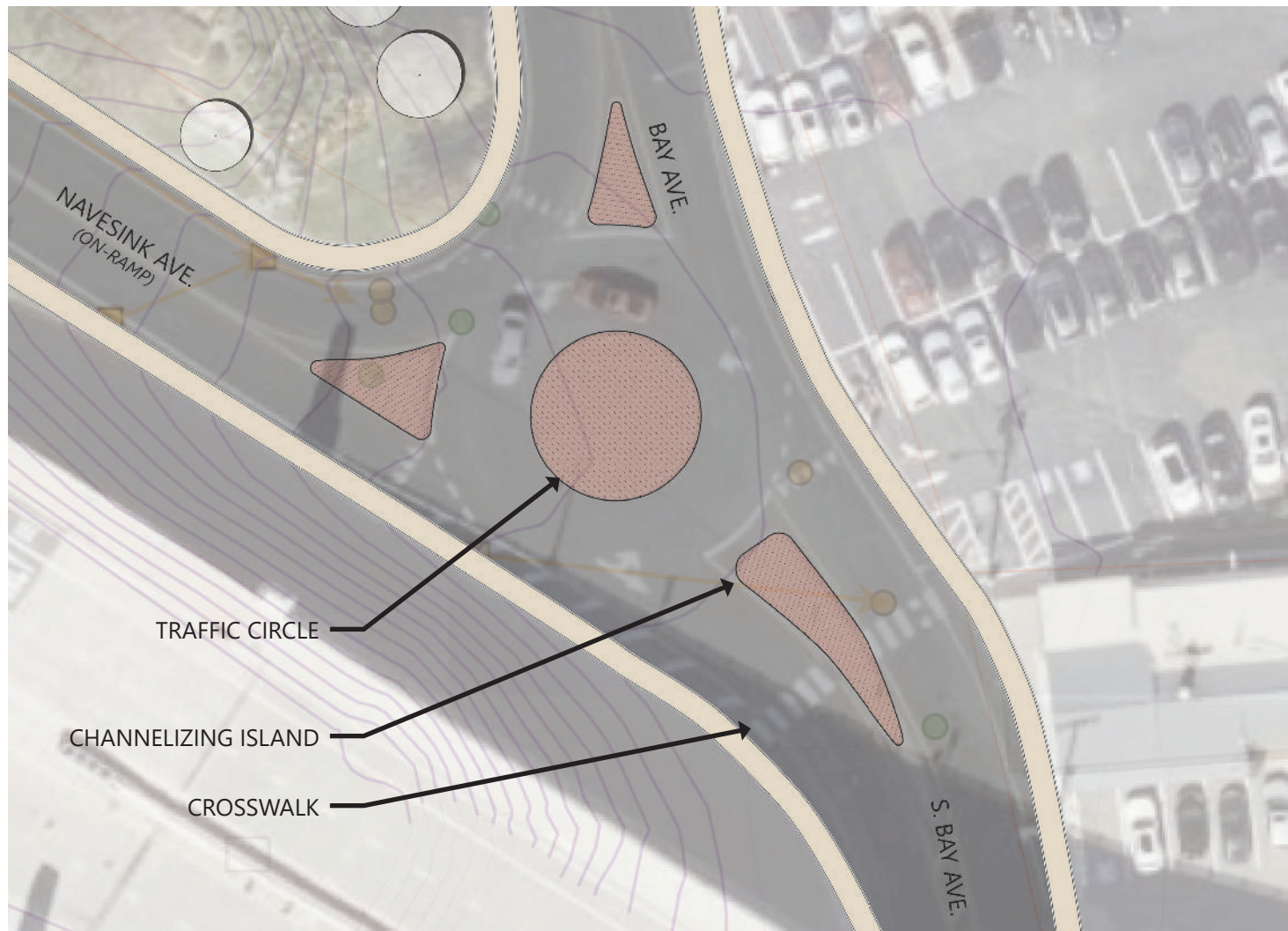
VIBURNUM NUDUM- SMOOTH VIBURNUM



PLANT LIST :

PLANT TYPE	BOTANICAL NAME	COMMON NAME
SMALL TREE	AMELANCHIER CANADENSIS	SHADBUSH
GRASS	AMMOPHILA BREVILIGULATA	AMERICAN BEACH GRASS
PERENNIAL *	AMSONIA HUBRICHTII	BLUE STAR
GRASS *	ANDROPOGON GERARDII	BIG BLUESTEM
GROUNDCOVER	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY
GROUNDCOVER	ARONIA MELANOCARPA GROUND HUG	BLACK CHOKEBERRY
PERENNIAL	ASTER SPECTABILIS	SHOWY ASTER
PERENNIAL	BAPTISIA AUSTRALIS	FALSE INDIGO
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TREE	CERCIS CANADENSIS	EASTERN REDBUD
PERENNIAL	COREOPSIS LANCEOLATA	TICKSEED
SHRUB *	DIERVILLA LONICERA	NORTHERN BUSH HONEYSUCKLE
PERENNIAL *	EUPATORIUM FISTULOSUM	JOE-PYE WEED
PERENNIAL	HEUCHERA VILLOSA	CORAL BELLS
SHRUB *	HYPERICUM PROLIFICUM	ST. JOHN'S WORT
PERENNIAL *	IRIS VERSICOLOR	BLUE FLAG IRIS
SHRUB	ITEA VIRGINICA	SWEETSPIRE
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SHRUB	PRUNUS MARITIMA	BEACH PLUM
GROUNDCOVER	RHUS AROMATICA 'GRO-LOW'	FRAGRANT SUMAC
PERENNIAL *	RUDBECKIA FULGIDA	BLACK-EYED SUSAN
GRASS *	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
SHRUB *	VIBURNUM NUDUM	VIBURNUM- SMOOTH
* PLANT ALSO APPROPRIATE FOR GREEN INFRASTRUCTURE PLANTING		





**SITE PLAN- EXISTING CONDITION**  
**SCALE: 1"=40'**



## EXISTING CONDITIONS INVENTORY

- VEHICULAR CIRCULATION- THREE VEHICULAR APPROACHES
- PEDESTRIAN CIRCULATION- ONE CROSSWALK AT SOUTH BAY AVE.
- CENTRAL ISLAND- CONCRETE PAVEMENT, CIRCULAR SHAPE
- THREE CHANNELIZING ISLANDS AT EACH VEHICULAR APPROACH
- LOCATED AT ONE OF THE MAIN ENTRANCES TO THE BOROUGH'S DOWNTOWN AREA
- SIGNAGE - QTY. TWO 'STOP FOR PEDESTRIAN'; SIGNS AT CHANNELIZING ISLAND WITH CROSSWALK
- PLANTS- NONE

## EXISTING CONDITIONS ANALYSIS

- SIGNAGE- ADDITION OF VEHICULAR SIGNAGE WILL HELP APPROACHING VEHICLES TO NAVIGATE TRAFFIC CIRCLE AND DIRECT DRIVER TO SPECIFIC DESTINATIONS. ADDITION OF WAYFINDING SIGNAGE FOR PEDESTRIANS WILL HELP ORIENT.
- ROAD STRIPING- ADDITION OF PEDESTRIAN (MORE CROSSWALKS) AND BICYCLE (SHARROW, BIKE LANE) ROAD STRIPING WILL INCREASE SAFETY FOR ALL USERS
- LIGHTING- ADDITION OF PEDESTRIAN LIGHTING ALONG ALL SIDEWALKS APPROACHES WILL INCREASE VISIBILITY AND ENHANCE THE PEDESTRIAN AND DRIVER EXPERIENCE
- GATEWAY OPPORTUNITY- ENHANCE THE CENTER OF TRAFFIC CIRCLE WITH A WELCOME/ENTRANCE/GATEWAY, AMBIENT LIGHTING, ETC.
- PLANTING- REMOVE AND REPLACE CONCRETE PAVING IN TRAFFIC CIRCLE WITH LOW-GROWING, LOW MAINTENANCE NATIVE PLANTS WITH MULTI-SEASON INTEREST

## PHASE II

SNUG HARBOR PARK AND BEACH  
 HUDDY PARK  
 MILLER STREET BEACH  
 VETERANS MEMORIAL PARK  
 EDERLE PARK  
 SOUTH BAY AVE. BEACH PARK  
**TRAFFIC CIRCLE**



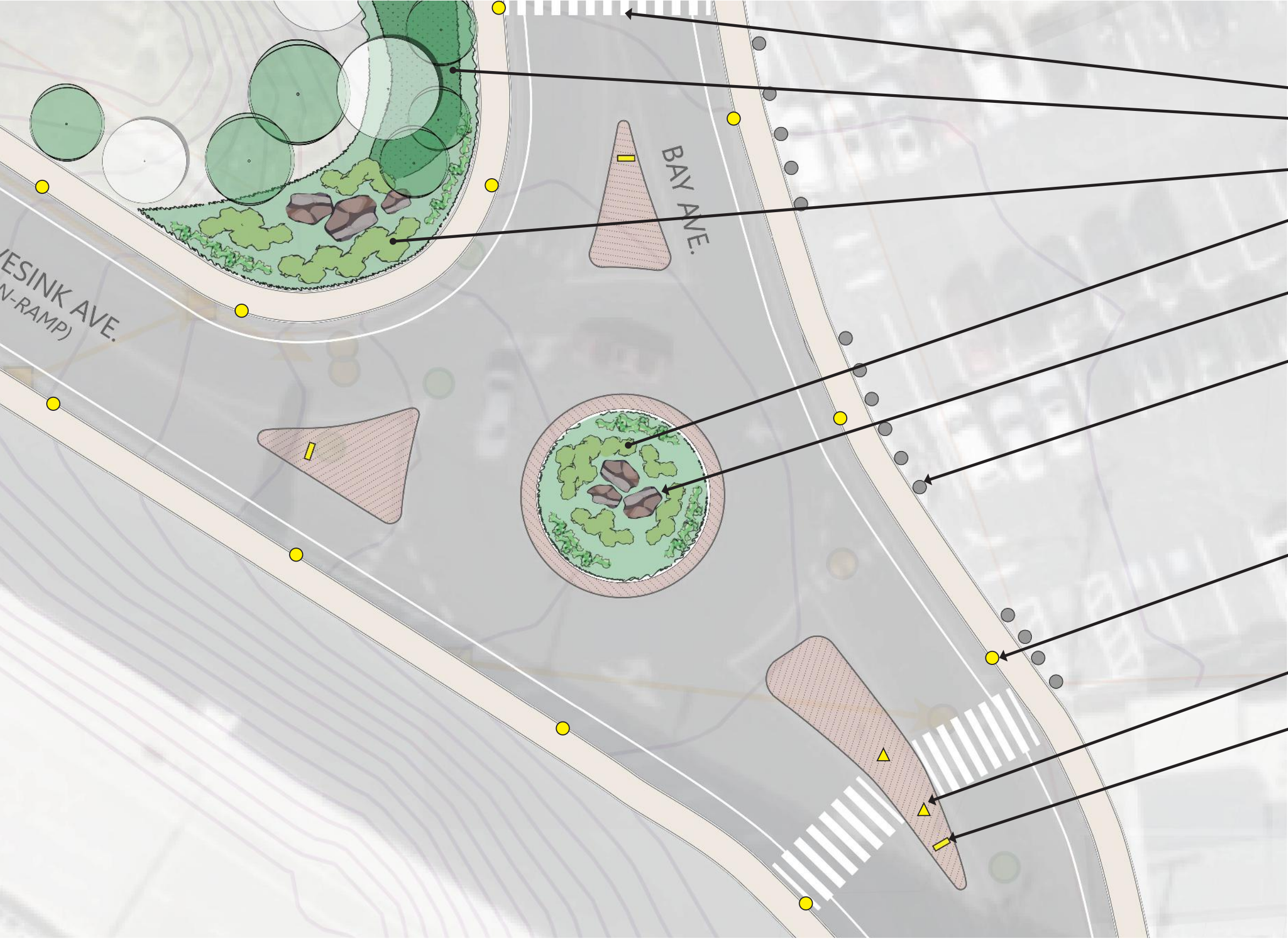
PERSPECTIVE- GRAPHIC INVENTORY

OPPORTUNITY FOR  
FOCAL POINT

IMPERVIOUS  
SURFACE

PLANTING  
LIMITED TO LAWN





- ADDITIONAL CROSSWALK
- BIORETENTION / RAIN GARDEN PLANTING AREA
- PLANTING AREA AT BOTTOM OF SLOPE (BETWEEN EDERLE PARK, AND PHASE 3)
- PLANTING BED WITH LOW-GROWING PLANTS
- LARGE NATIVE BOULDERS
- CONCRETE BOLLARDS
- PEDESTRIAN LIGHT
- PATH / BOLLARD LIGHT AT EXISTING CROSSWALK
- TRAFFIC CIRCLE SIGNAGE (VEHICULAR SIGNAGE)

SITE PLAN- PROPOSED DESIGN  
SCALE: 1"=20'









SITE IMPROVEMENTS  
**SIGNAGE**



DIRECTIONAL



VEHICULAR AT TRAFFIC CIRCLE



WAYFINDING / DIRECTIONAL



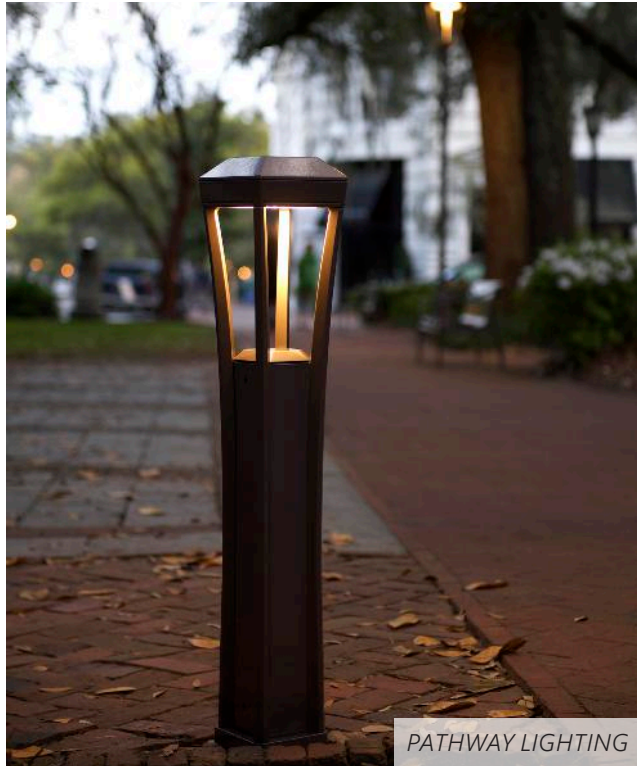
WAYFINDING

SITE IMPROVEMENTS  
**LIGHTING**



PEDESTRIAN LIGHTING

- PEDESTRIAN LIGHTING- STYLE: ASHBERY AREA LIGHT, MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED
- PATHWAY LIGHTING- STYLE: ASHBERY PATH LIGHT, MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED



PATHWAY LIGHTING

GREEN INFRASTRUCTURE  
**ELEMENTS**



PERVIOUS SURFACES, RUNOFF RETENTION

SITE IMPROVEMENTS  
**ELEMENTS**



CONCRETE BOLLARDS





ASTER SPECTABILIS- SHOWY ASTER



HEUCHERA VILLOSA CORAL BELLS



ILEX OPACA 'MARYLAND DWARF'- DWARF AMERICAN HOLLY



JUNIPERUS HORIZONTALIS 'BAR HARBOR'- CREEPING JUNIPER



LIATRIS SPICATA- BLAZING STAR



PYCANTHEMUM MUTICUM- MOUNTAIN MINT



RHUS AROMATICA- 'GRO-LOW' FRAGRANT SUMAC



RUDBECKIA FULGIDA- CONEFLOWER



SCHIZACHYRIUM SCOPARIUM- LITTLE BLUESTEM

PLANT LIST :

PLANT TYPE	BOTANICAL NAME	COMMON NAME
PERENNIAL	ASTER SPECTABILIS	SHOWY ASTER
PERENNIAL *	HEUCHERA VILLOSA	CORAL BELLS
SHRUB	ILEX OPACA 'MARYLAND DWARF'	DWARF AMERICAN HOLLY
GROUNDCOVER	JUNIPERUS HORIZONTALIS 'BAR HARBOR'	CREEPING JUNIPER
PERENNIAL *	LIATRIS SPICATA	BLAZING STAR
GROUNDCOVER	PYCANTHEMUM MUTICUM	MOUNTAIN MINT
GROUNDCOVER	RHUS AROMATICA 'GRO-LOW'	FRAGRANT SUMAC
PERENNIAL *	RUDBECKIA FULGIDA	BLACK-EYED SUSAN
GRASS *	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
* PLANT ALSO APPROPRIATE FOR GREEN INFRASTRUCTURE PLANTING		



# Phase Three | Sandy Hook Bay Bluff Slope











EXISTING CONDITIONS  
INVENTORY

TPOLOGY 1



VERY STEEP (>65% SLOPE), DENSELY WOODED, LARGE / DEEP AREA (OVER 200' DEPTH)

TPOLOGY 2



STEEPEST (>70% SLOPE), DENSELY WOODED, SHORTER LENGTH THAN TYPOLOGY 1 (100' - 150' DEPTH)

TPOLOGY 3



STEEP (>65% SLOPE), WOODED, INACCESSIBLE AREA (LOCATED BETWEEN UPPER AND LOWER PRIVATE PROPERTIES)

EXISTING CONDITIONS  
ANALYSIS



EXAMPLE OF STORM/RUNOFF DAMAGE WITHIN TYPOLOGY 1 AREAS.



EXAMPLE OF EXISTING DRAINAGE WITHIN TYPOLOGY 2 AREAS.



EXAMPLE OF EXISTING DRAINAGE WITHIN TYPOLOGY 3 AREAS.





EXISTING CONDITIONS  
INVENTORY

TPOLOGY 4



STEEP (BETWEEN 50% AND 60% SLOPE), ERODED SLOPES, WITH MOSTLY VINE AND SMALL SHRUB VEGETATION, SOME TALL TREES, INACCESSIBLE AREA (LOCATED BETWEEN UPPER AND LOWER PRIVATE PROPERTIES)

TPOLOGY 5



STEEP (BETWEEN 35% AND 60% SLOPE), CONTAINING SCRUBBY, OVERGROWN VEGETATION AND MEDIUM-SIZED TREES

TPOLOGY 6



VERY STEEP (BETWEEN 55% AND 70% SLOPE), ERODED SLOPE OR TURF-COVERED SLOPE

EXISTING CONDITIONS  
ANALYSIS



EXAMPLE OF EXISTING DRAINAGE WITHIN TYPOLOGY 4 AREAS.

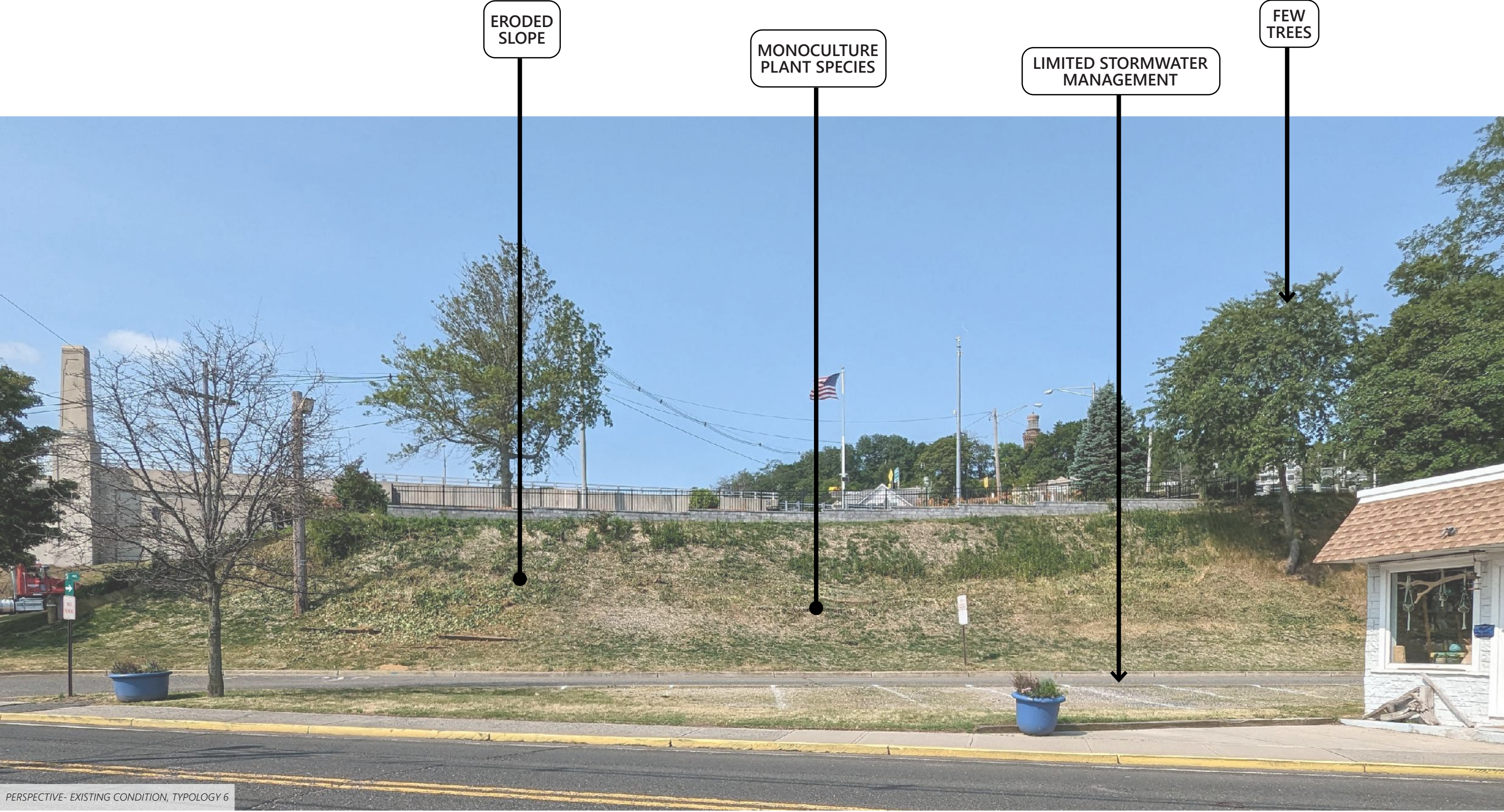


EXAMPLE OF EXISTING DRAINAGE WITHIN TYPOLOGY 5 AREAS.

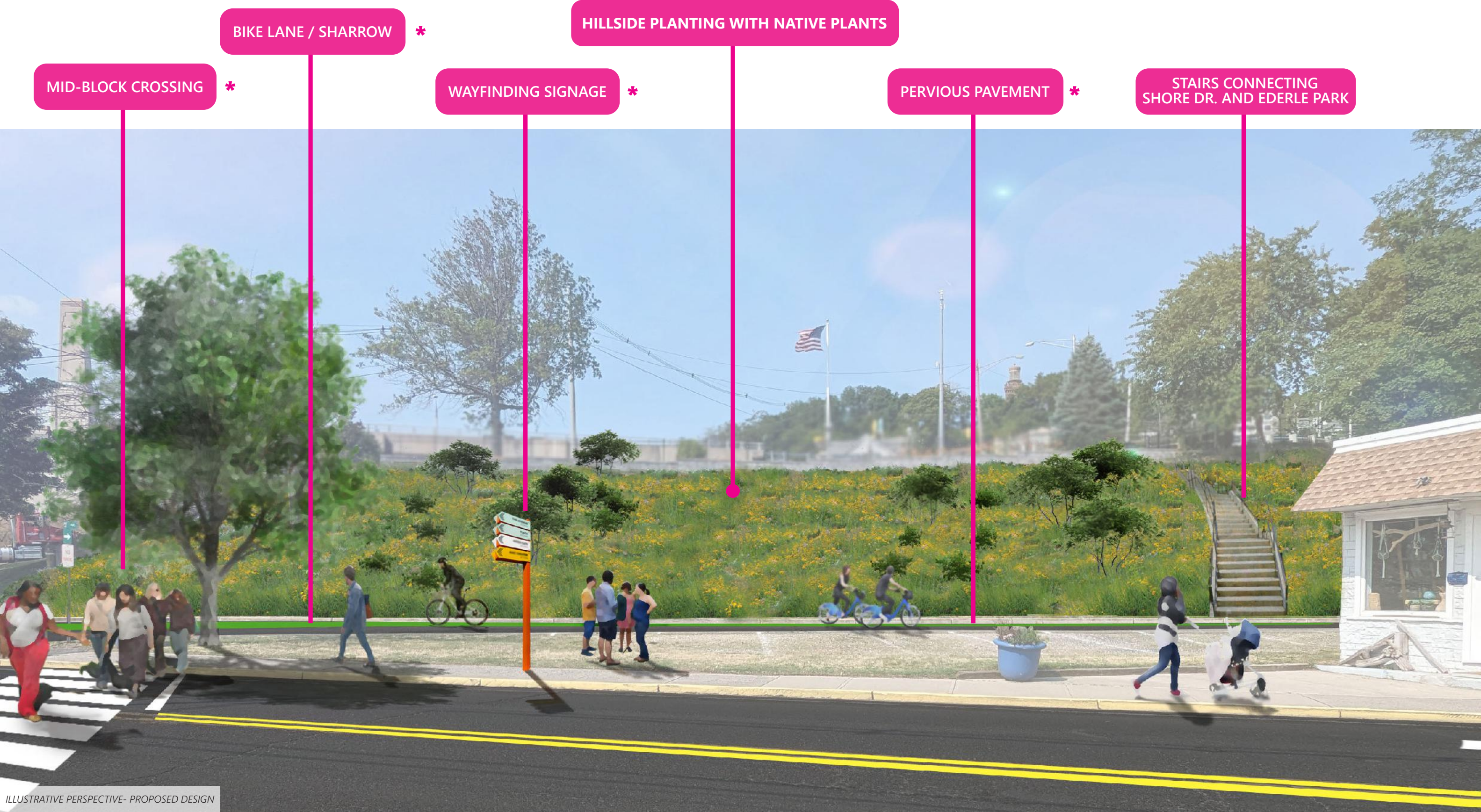


EXAMPLE OF EXISTING DRAINAGE WITHIN TYPOLOGY 6 AREAS.









ILLUSTRATIVE PERSPECTIVE- PROPOSED DESIGN

\* denotes association to design-work in other phases



SITE IMPROVEMENTS  
**SIGNAGE**



WAYFINDING / DIRECTIONAL



WAYFINDING



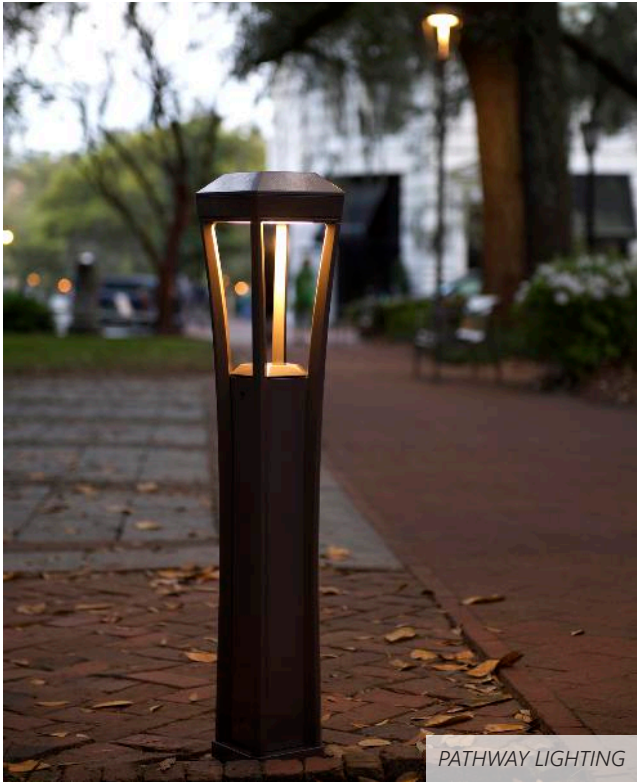
WAYFINDING / DIRECTIONAL

SITE IMPROVEMENTS  
**LIGHTING**



PEDESTRIAN LIGHTING

- PEDESTRIAN LIGHTING- STYLE: ASHBERY AREA LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED
- PATHWAY LIGHTING- STYLE: ASHBERY PATH LIGHT', MANUFACTURER: LANDSCAPE FORMS; DARK SKY APPROVED



PATHWAY LIGHTING

GREEN INFRASTRUCTURE  
**ELEMENTS**



SWALE / RAIN GARDEN PLANTER

photo credit : WATERSHED INSTITUTE



NATIVE PLANTING ON HILLSIDE



SLOPE WITH GABION WALLS AND PLANTING

photo credit : TOM LEADER STUDIO



BIORETENTION PLANTER



PERVIOUS PAVING AND BIORETENTION



ACCESS OVER BIORETENTION



BIORETENTION AT CURB



PLANT LIST

TYPOLOGY	PLANT TYPE	BOTANICAL NAME	COMMON NAME
<div><div></div><div>6</div></div>	FERN	DENNSTAEDTIA PUNCTILOBULA	HAY-SCENTED FERN
<div><div>12345</div></div>	FERN	MATTEUCCIA STRUTHIOPTERIS	OSTRICH FERN
<div><div></div><div>6</div></div>	GRASS	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM
<div><div>12345</div></div>	GRASS	DESCHAMPSIA CESPITOSA 'GOLDTAU'	TUFTED HAIRGRASS
<div><div>123456</div></div>	GRASS	CAREX ALBICANS	WHITE-TINGED SEDGE
<div><div></div><div>6</div></div>	GROUNDCOVER	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY
<div><div></div><div>6</div></div>	GROUNDCOVER	PYCANTHEMUM MUTICUM	MOUNTAIN MINT
<div><div></div><div>3456</div></div>	GROUNDCOVER	ARONIA MELANOCARPA GROUND HUG	BLACK CHOKEBERRY
<div><div></div><div>3456</div></div>	GROUNDCOVER	PHLOX SUBULATA	MOSS PHLOX
<div><div></div><div>3456</div></div>	GROUNDCOVER	RHUS AROMATICA 'GRO-LOW'	FRAGRANT SUMAC
<div><div>123456</div></div>	GROUNDCOVER	XANTHORHIZA SIMPLICISSIMA	YELLOWROOT
<div><div></div><div>6</div></div>	PERENNIAL	ASCLEPIAS TUBEROSA	MILKWEED
<div><div>12345</div></div>	PERENNIAL	CHELONE GLABRA	TURTLEHEAD
<div><div></div><div>6</div></div>	PERENNIAL	BAPTISIA AUSTRALIS	FALSE INDIGO
<div><div></div><div>6</div></div>	SHRUB	COMPTONIA PEREGRINA	SWEETFERN
<div><div></div><div>6</div></div>	SHRUB	PRUNUS MARITIMA	BEACH PLUM
<div><div></div><div>3456</div></div>	SHRUB	HAMAMELIS VIRGINIANA	WITCHAZEL
<div><div>123456</div></div>	SHRUB	ITEA VIRGINICA	SWEETSPIRE
<div><div>123456</div></div>	SHRUB	KALMIA LATIFOLIA	MOUNTAIN LAUREL
<div><div>123456</div></div>	SHRUB	VIBURNUM ACERIFOLIUM	MAPLELEAF VIBURNUM
<div><div></div><div>3456</div></div>	SHRUB	VIBURNUM PRUNIFOLIUM	BLACKHAW VIBURNUM
<div><div></div><div>6</div></div>	SMALL TREE	RHUS TYPHINA	STAGHORN SUMAC
<div><div></div><div>3456</div></div>	SMALL TREE	AMELANCHIER CANADENSIS	SHADBUSH
<div><div>123456</div></div>	SMALL TREE	CORNUS FLORIDA	DOGWOOD
<div><div></div><div>6</div></div>	SMALL TREE	CERCIS CANADENSIS	EASTERN REDBUD

PLANTING NOTES:

NOTE: THE PLANTS INCLUDED IN THIS PALETTE ARE BROKEN DOWN ACCORDING TO TYPOLOGY, WHICH CONSIDER SMALLER ENVIRONMENTS AND TAKE SUNLIGHT, SLOPE STEEPNESS, AND ACCESSIBILITY INTO ACCOUNT.

ALL OF THE PLANTS ON THE PLANT LIST ARE SLOPE STABILIZERS.

ANY OF THE PLANTS CAN BE USED TO RENOVATE OVERGROWN PLANTING AREAS. .

INTERIM PLANTING:

AN OPTION FOR THE PHASE 3 PROJECT SITES IS TO IMPLEMENT THE DESIGN GRADUALLY AND UTILIZE TEMPORARY DESIGN SOLUTIONS SUCH AS PLANTING SLOPES WITH (AN APPROPRIATE) NATIVE SEED MIX, SUCH AS AVAILABLE VIA PINELANDS NURSERY (BELOW).

VEGETATIVE COVER IS AN EXCELLENT SOLUTION TO SOLVING FOR EROSION ISSUES ON STEEP SLOPES. FURTHER, THE INCLUSION AND USE OF BIODEGRADABLE GEO TEXTILES (JUTE, COIR, ETC.), CAN HELP TO SLOW DOWN SLOPE DEGRADATION AND SOIL LOSS IN THE PERIOD BEFORE VEGETATION REACHES MATURITY.

*PINELANDS NURSERY:  
"A MIXTURE OF FORBS AND GRASSES THAT ARE EXCEEDINGLY TOLERANT OF POOR SOILS AND STEEP SLOPES. WHEN SEEDING A SLOPE WITH A SIGNIFICANT GRADIENT PLEASE CONSIDER USING JUTE MESH OR COIR MATTING TO REDUCE THE RISK OF SEED BEING WASHED AWAY DURING A RAINSTORM".*

*BOTANICAL NAME & % OF MIX  
ANDROPOGON GERARDII (BIG BLUESTEM) 10.00%  
CHAMAECRISTA FASCICULATA (PARTRIDGE PEA) 3.00%  
COREOPSIS LANCEOLATA (LANCYLEAF TICKSEED) 4.00%  
DESMODIUM CANADENSE (SHOWY TICK-TREFOIL) 1.00%  
ELYMUS VIRGINICUS (VIRGINIA WILD-RYE) 22.00%  
ERAGROSTIS SPECTABILIS (PURPLE LOVE GRASS) 6.00%  
MONARDA PUNCTATA (SPOTTED HORSEMINT) 4.00%  
PANICUM VIRGATUM (SWITCHGRASS) 19.00%  
RUDBECKIA HIRTA (BLACK-EYED SUSAN) 1.00%  
SCHIZACHYRIUM SCOPARIUM (LITTLE BLUESTEM) 20.00%  
TRADESCANTIA OHIENSIS (OHIO SPIDERWORT) 0.30%  
TRIDENS FLAVUS (PURPLETOP) 15.70%*

PHASE III

KEY

- 1

VERY STEEP (>65% SLOPE)  
DENSELY WOODED, OVER 200’ DEPTH
- 2

STEEPEST (>70% SLOPE)  
DENSELY WOODED, 100’ - 150’ DEPTH
- 3

STEEP (>65% SLOPE)  
WOODED, INACCESSIBLE AREA
- 4

STEEP (50% - 60% SLOPE)  
INACCESSIBLE AREA
- 5

STEEP (35% - 60% SLOPE)  
SHRUBS & MED. HEIGHT TREES
- 6

VERY STEEP (55% - 70% SLOPE)  
ERODED OR TURF-COVERED SLOPE





CORNUS FLORIDA- FLOWERING DOGWOOD



VIBURNUM ACERIFOLIUM- MAPLELEAF VIBURNUM



MATTEUCCIA STRUTHIOPTERIS- OSTRICH FERN



HAMAMELIS VIRGINIANA- WITCH HAZEL



CAREX ALBICANS- WHITE TINGED SEDGE



XANTHORHIZA SIMPLICISSIMA- YELLOWROOT



AMELANCHIER CANADENSIS- SHADBUSH



VIBURNUM PRUNIFOLIUM- BLACKHAW VIBURNUM



KALMIA LATIFOLIA- MOUNTAIN LAUREL



CHELONE GLABRA- TURTLEHEAD



ARONIA MELANOCARPA- 'GROUNDHUG' CHOKEBERRY



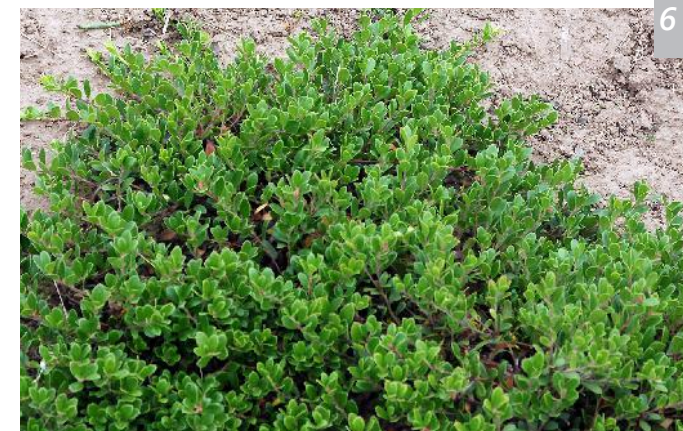
RHUS AROMATICA- 'GRO-LOW' FRAGRANT SUMAC



DESCHAMPSIA CESPITOSA- 'GOLDTAU' TUFTED HAIRGRASS



PHLOX SUBULATA- MOSS PHLOX



ARCTOSTAPHYLOS UVA-URSI- BEARBERRY





ASCLEPIAS TUBEROSA- MILKWEED



BAPTISIA AUSTRALIS- FALSE INDIGO



CERCIS CANADENSIS- EASTERN REDBUD



COMPTONIA PEREGRINA- SWEETFERN



DENNSTAEDTIA PUNCTILOBULA- HAY SCENTED FERN



PRUNUS MARITIMA- BEACH PLUM



PYCNANTHEMUM MUTICUM- MOUNTAIN MINT



RHUS TYPHINA- STAGHORN SUMAC



SCHIZACHYRIUM SCOPARIUM- LITTLE BLUESTEM