

Engineering Services



Daniel Martin, Director

The Department of Engineering Services is a **Multi-functional Department** providing a variety of **Engineering, Building, Fire Protection, and Water Services** to Town Residents.

Engineering Services is comprised of four (4) Divisions:

- ❑ ***ENGINEERING SERVICES***
- ❑ ***BUILDING & HOUSING***
- ❑ ***FIRE PREVENTION***
- ❑ ***DIX HILLS WATER DISTRICT***

NOVEMBER 4, 2020

Engineering Services



MISSION

- The Mission of the Department is to provide:
- **Engineering Designs** - Safe, Code Complaint and Economical
 - **Construction Management of New and Renovation Projects** within the Town - public and private sector
 - **Courteous & Efficient Services to the Public** - who are seeking permits, CO's, and various inspections
 - **Safe Drinking Water** - in strict compliance with Federal Standards for the Dix Hills Water District
 - **Fire Prevention** through enforcement of State, County, and Town Fire Safety Codes

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OPERATIONAL RESPONSIBILITIES

ENGINEERING SERVICES

- ***In-House Design & Development of Plans & Specs*** - renovations and new capital construction projects
- ***Construction Management & Inspection of Projects*** - including oversight of outside Professional Consultants for more complex projects
- ***Projects include:*** • roadway/drainage improvements • parking lots • traffic calming • parks • marine construction • building design/renovations/construction
- ***Engineering Division Supports:*** Parks & Recreation, Planning, Maritime Services, & General Services

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OPERATIONAL RESPONSIBILITIES

BUILDING & HOUSING

- ***Administration of Building Permit Process*** - to ensure construction compliance with all Federal, State, and Local Codes.
- ***Issuance of Building Permits and Certificates of Occupancy*** - Department issues approximately **2700 Building Permits** per year.
- ***Plan Reviews*** - performs detailed plan reviews of drawings for new and renovation projects including site plans and subdivisions
- ***Inspections*** - performs Field Inspections for Buildings, Site Development and Plumbing. Department performs approximately **60-70 Building-Site Inspections/Day; 15 Plumbing Inspections/Day**
- ***Records Maintenance & Retention*** - maintains files for thousands of permits and CO's; on-going conversion of digital scanning

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OPERATIONAL RESPONSIBILITIES

FIRE PREVENTION

- **Administration & Enforcement of Fire Safety Codes** - to ensure construction compliance with New York State and Town of Huntington Fire Codes.
- **Issuance of Construction Permits** - for installation of: fire sprinklers, fire alarms, various types of extinguishing systems, and carbon monoxide detection systems
- **Issuance of Operational Permits** - related to 24 types of activities/ processes within Town Fire Code; i.e., storage of aerosol products, welding, & other hot work activities
- **Issuance of General Fire Safety Inspection Certificates** - related to annual inspections of commercial properties
- **Inspections / Investigations** - performs Field Inspections related to above permits and certificates, as well as conducts investigative assessments of all major fires to ascertain cause and origin

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OPERATIONAL RESPONSIBILITIES

DIX HILLS WATER DISTRICT

- **Administration & Implementation of Federal Drinking Water Standards** - to ensure strict compliance with EPA/Federal Codes and deliver high quality drinking water to residents
- **The District maintains:**
 - 17 Supply Wells
 - 3 Water Storage Tanks
 - 5 Emergency Electrical Generators
 - 3 Specialized Water Treatment Systems
 - 170 Miles of Water Mains
 - 1290 Fire Hydrants
 - 2000 System Valves (approx)
- **The District serves:** approximately 8500 homes & businesses

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2020 Achievements

- Mill Dam Marina Emergency Repairs
- Woodhull Rd/Nassau Rd Intersection Improvements
- Crab Meadow Beach Pavilion Renovation
- Heckscher Park Estate Fencing
- James D. Conte Community Center Design Completion
- Fleets Cove Beach Playground Renovation
- Flanagan Center Roof Replacement - Phase I
- Dix Hills Ice Rink - Shingle Roof Replacement
- Design of Numerous 2020 - 2021 Construction Projects

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Mill Dam Marina Bulkhead Emergency Repair

- Race Coastal Engineering designed an emergency repair and obtained NYSDEC Tidal Wetlands Permit
- Terry Marine Construction installed new steel bulkhead w/concrete cap, reconstructed portion of timber pier
- \$140,000 Repair



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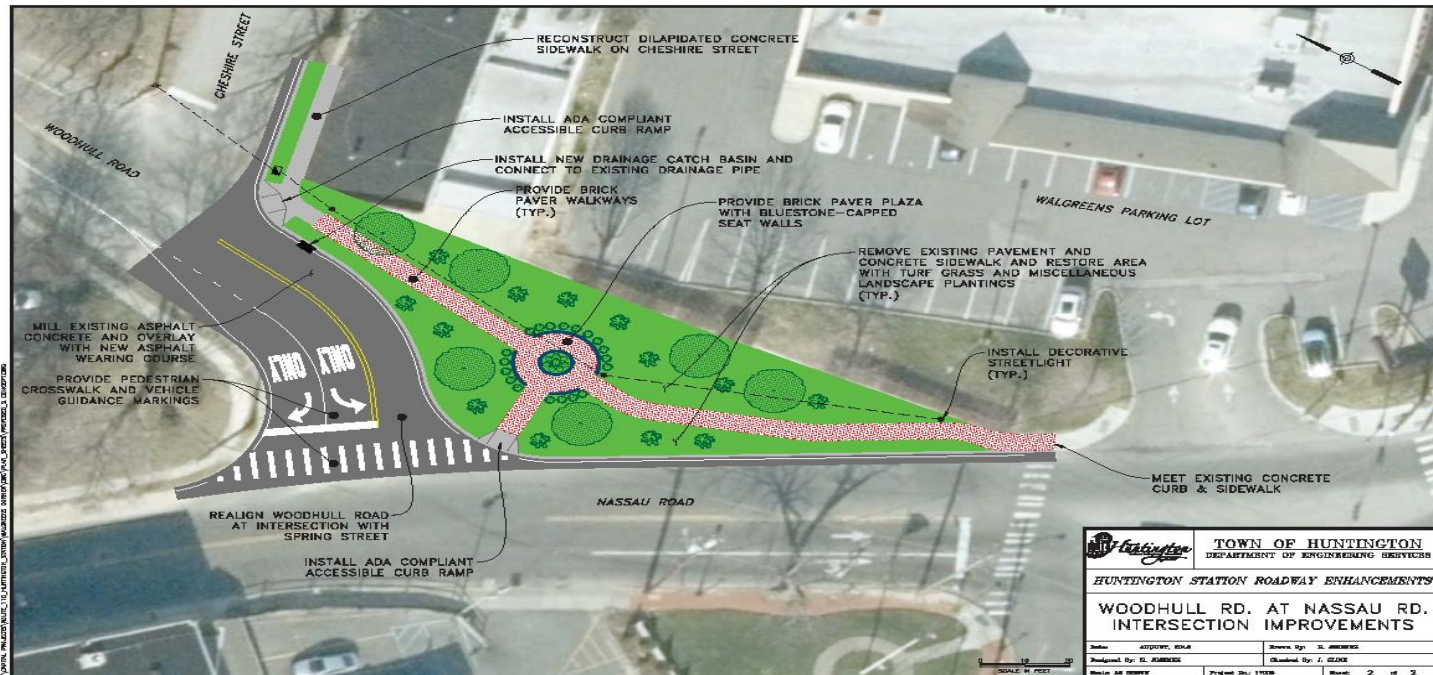
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Woodhull Rd/Nassau Road Intersection

- In-House Engineering Completed Design of Woodhull Rd/Nassau Road Intersection Improvements
- Construction awarded to Macedo Contracting and work in-progress
- Construction cost approximately \$195,000



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Crab Meadow Beach Pavilion Repairs



- Design performed by In-House Engineering
- Work includes Repair/Replacement of Exterior Stucco Siding; Removal/Replacement of Coping Stones; Restoration of Guardrails and Metal Gates; Window Replacement, and Brick Façade Waterproofing
- Construction awarded to JGM Construction of Huntington; work completion scheduled for December 2020
- Construction cost approximately \$254K



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Heckscher Park Estate Fencing



\$284k
Construction Cost

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James E. Conte Center



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Fleets Cove Beach Playground



- *Composite Playstructure*
- *Tire Swing*
- *4-Bay 8-Swing Structure*
- *3.5" Safety Surface*
- *Sidewalk, Curb, Bollards & Timber Guardrail*
- *Pavement Repairs/Striping*

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2021 Goals

Capital Budget Projects

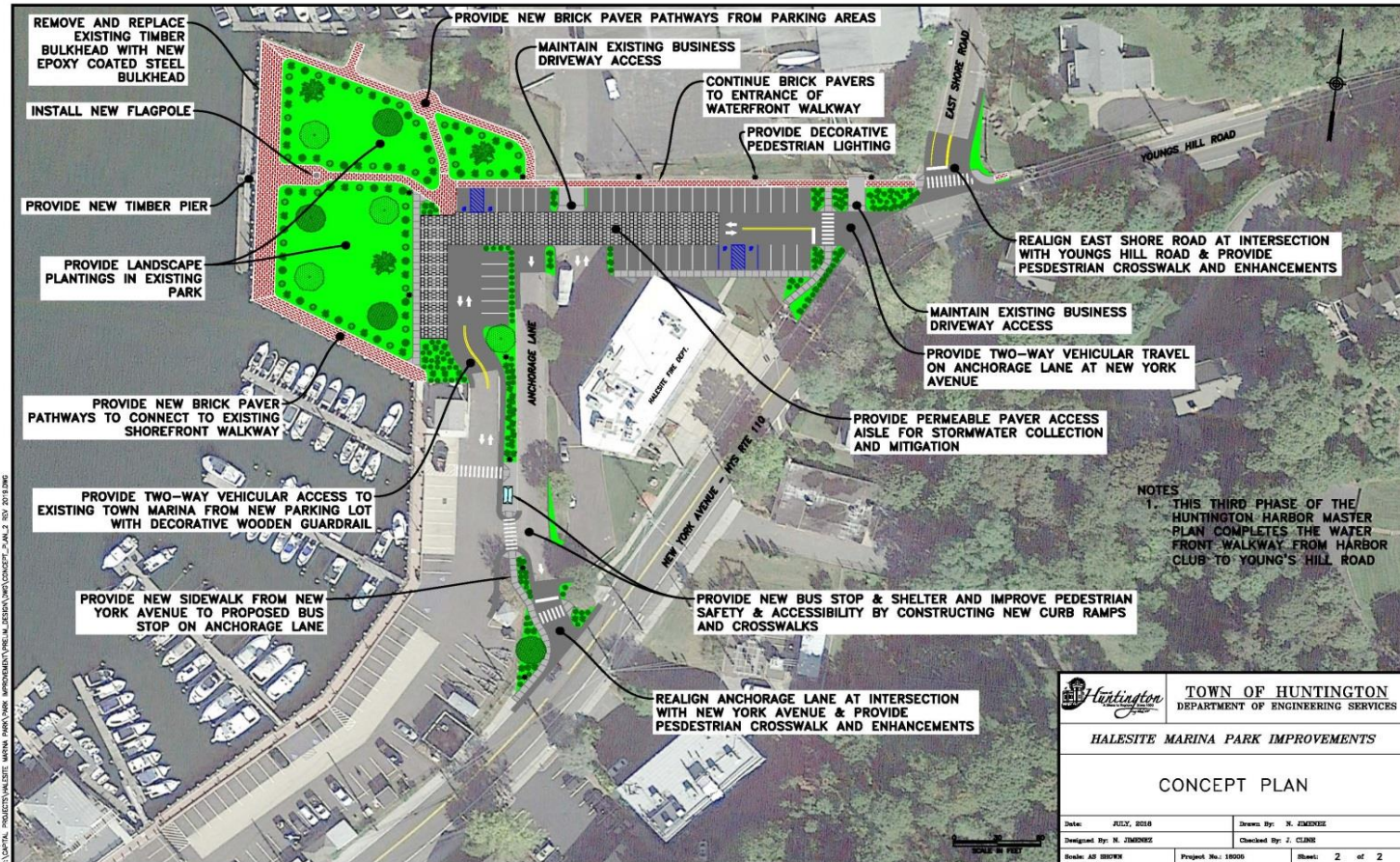
- Halesite Marina Park Reconstruction
- Manor Park Spray Park and Playground
- James D. Conte Community Center Construction
- Heckscher Park Museum of Art Exterior Renovation
- Depot Road Sidewalk Reconstruction
- Flanagan Center Frontage/Parking Improvements
- Parks / Playgrounds - New and Renovated
 - Monarch Park Butterfly Garden
 - Greenlawn Park Playground
 - John Walsh Playground
- Dix Hills Water District Upgrades

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Halesite Marina Park Bulkhead



- **Estimated \$2.8 Million Bulkhead, Parking Lot and Park Improvement Project**

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Manor Spray Park and Playground

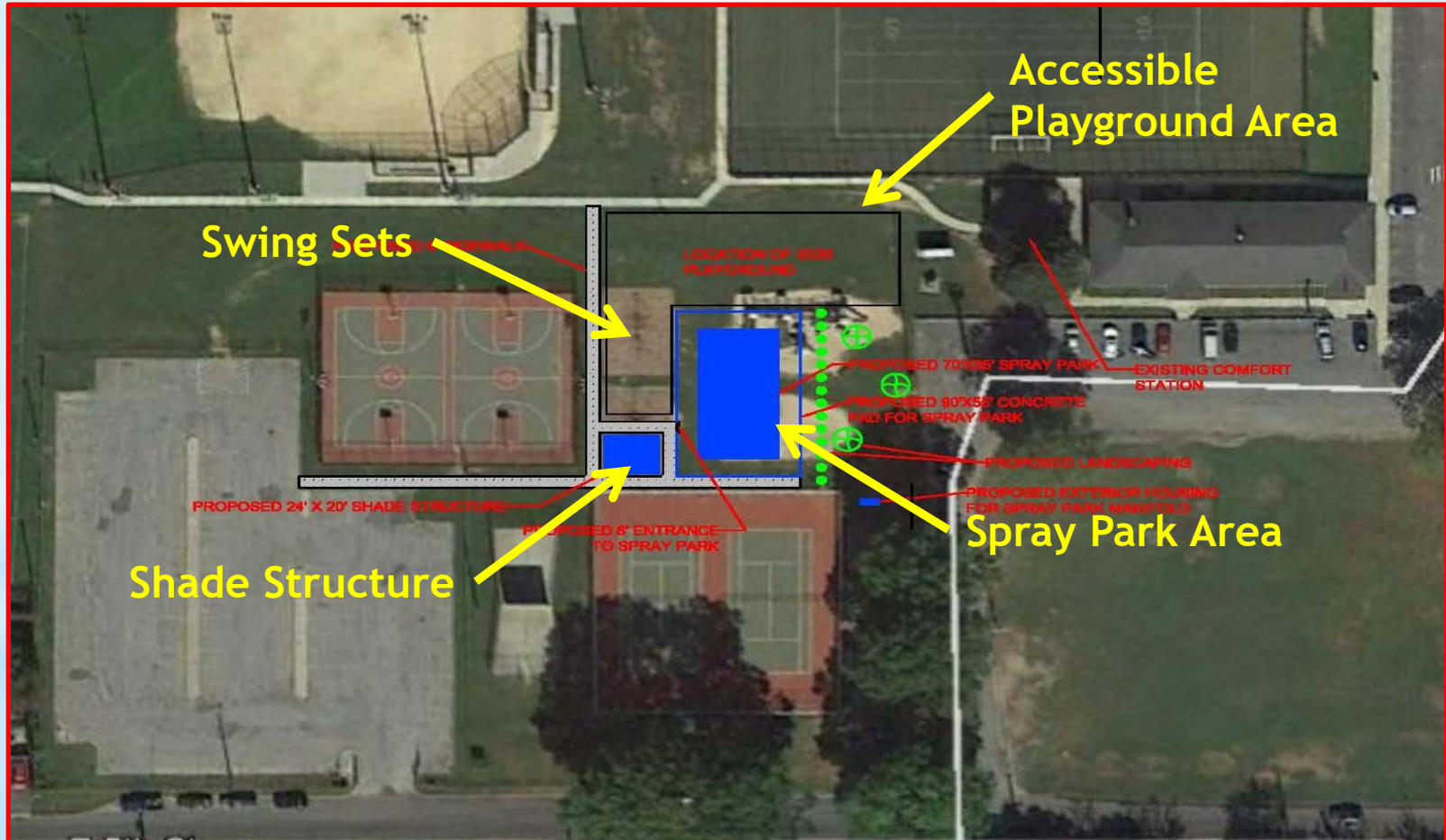


- **The Project will cost approximately \$1.1 Million for the Manor Park Playground and Spray Park**

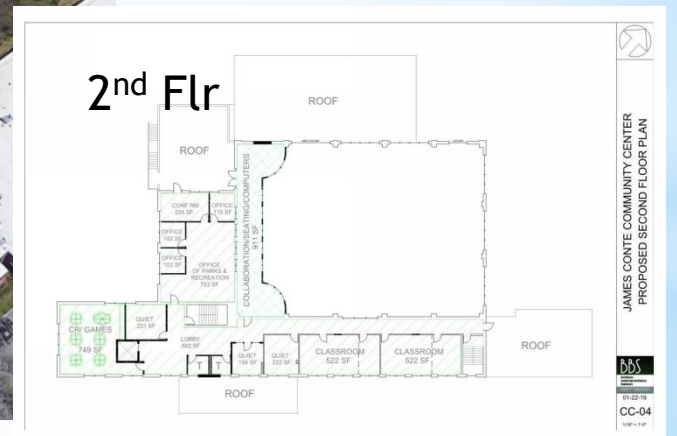


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Manor Spray Park and Playground



James E. Conte Center

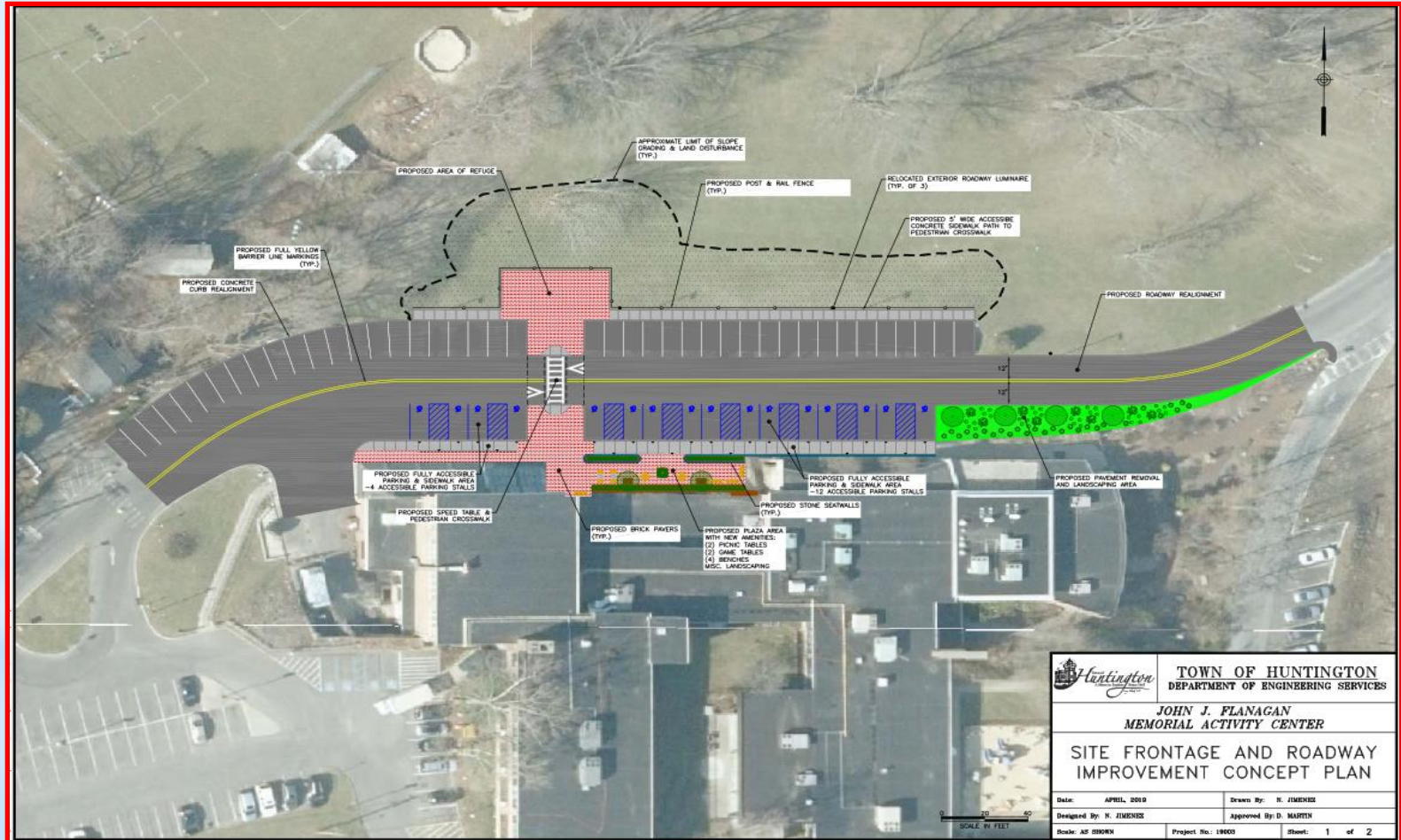


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Flanagan Center Frontage/Parking Improvements



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Monarch Park Butterfly Garden



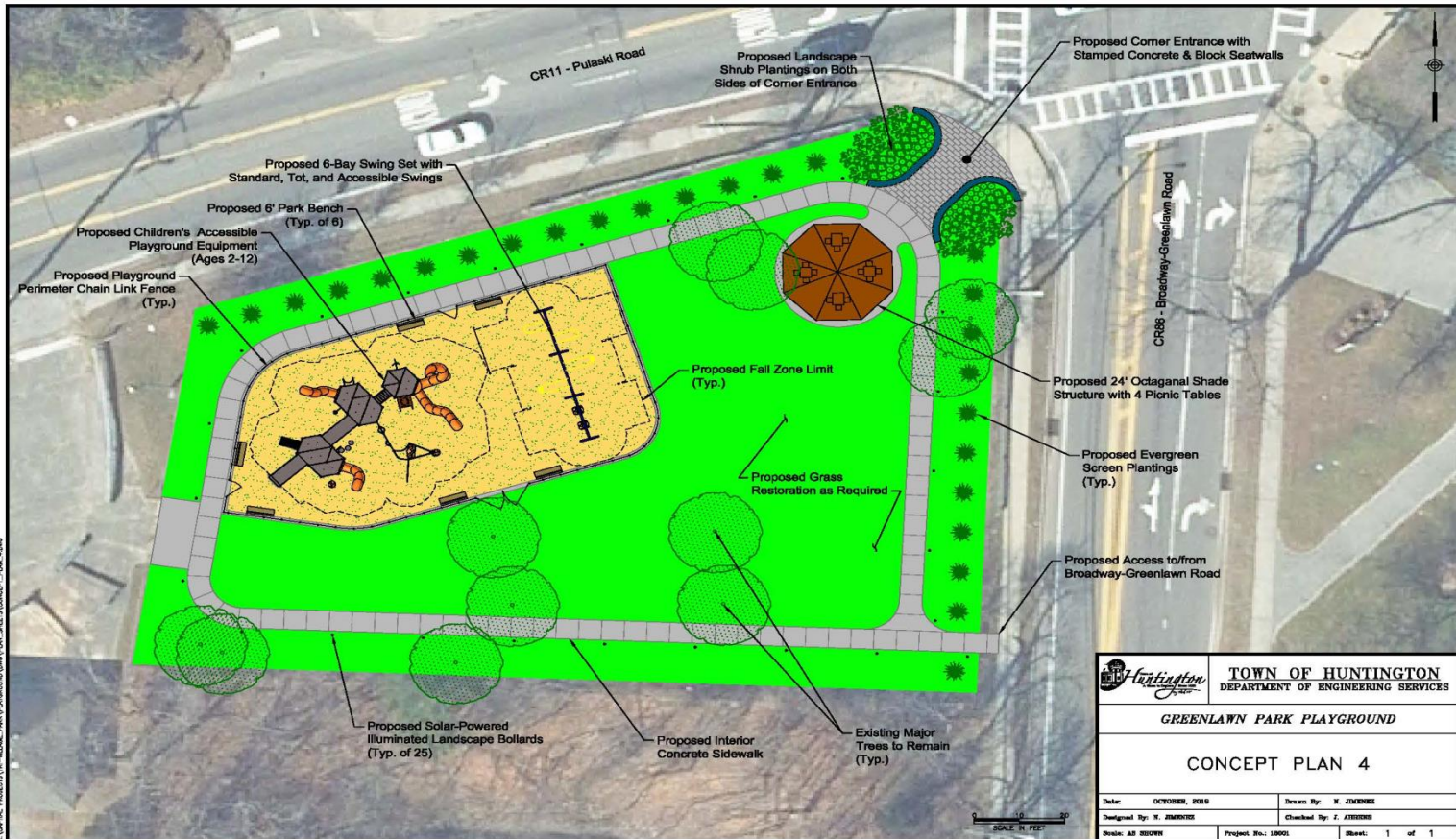
\$175k Construction Cost

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Greenlawn Park Playground



\$510k Construction Cost

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Dix Hills Water District Upgrades

Plant Rehabilitation \$500,000

Repair, replacement and rehabilitation of existing plants are needed and have been phased in over a five year period. The rehabilitation of the plants will include upgrades to electrical systems, pumps and caustic tank replacement, and new well or new treatment facility to address 1,4 Dioxane. This project will be funded through a bond issue.

Water Meter Replacement \$200,000

Approximately 9,000 water meters will be replaced and installed throughout the district. This will be funded through a bond issue.



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2020 Budget Highlights

Operating expenses increasing 2% due to contractual increases.

AUTHORIZED POSITIONS	Fund/ Division	2018 Actual	2019 Modified Budget	2019 Actual	2020 Budget
Town Engineer	A1440	10	11	11	11
Building Department	B1620	24	24	23	24
Fire Prevention-Safety Inspection	B3620	5	6	6	6
Dix Hills Water District	SW18321	14	14	13	14
Department Total		53	55	53	55

EXPENSES	2019 Actual	2020 Modified Budget	2020 Projected	2021 Budget
Salary and Wages	\$4,548,509	\$4,863,726	\$4,888,303	\$4,989,924
Employee Benefits and Taxes	353,332	390,087	390,087	398,705
Contractual Costs, Materials & Supplies	1,734,576	1,911,833	1,911,833	1,870,385
Fixed Assets	179,338	138,545	66,500	96,500
Capital Outlay		2,500	2,500	2,500
Total Expenses	6,815,755	7,306,691	7,259,223	7,358,014