

GREENS AT HALF HOLLOW, HUNTINGTON SEWAGE TREATMENT PLANT SUFFOLK COUNTY DEPARTMENT OF PUBLIC WORKS

**ENGINEERING
SURVEYING
PLANNING
ENVIRONMENTAL**

**FEASIBILITY & DUE
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PLANNING & DESIGN
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ENGINEERING
STRUCTURAL DESIGN &
ENGINEERING
STORMWATER
MANAGEMENT PLANNING
PERMITTING & PROCESSING
ENVIRONMENTAL
CONSULTING
SERVICES DURING
CONSTRUCTION**

**MEETING THE NEEDS OF OUR
CLIENTS SINCE 1954**

NELSON & POPE

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PROJECT TYPE: ADVANCED WASTE SANITARY TREATMENT PLANT
PROJECT SCOPE: 330,000 GALLONS PER DAY DESIGN FLOW
CONSTRUCTION COST: \$8.8M

DESIGN TEAM:
NELSON & POPE

RELEVANT COMPONENTS:

- TOPOGRAPHIC & EXISTING CONDITION SURVEY
- DESIGN REPORT
- DETAILED PROCESS PLANS
- SPECIFICATIONS
- PERMITTING & PROCESSING AT COUNTY & STATE
- COORDINATION OF BIDDING
- COORDINATION OF PRE-CONSTRUCTION MEETING
- SHOP DRAWING REVIEW
- RESIDENT CONSTRUCTION OBSERVATION
- CONSTRUCTION SURVEYING
- CERTIFICATION OF COMPLETED FACILITIES
- COORDINATE PROCESS START-UP
- PREPARATION OF AS-CONSTRUCTED PLANS
- OPERATION & MAINTENANCE MANUAL PREPARATION
- REPRESENTATION BEFORE COUNTY DEPARTMENTS



THE GREENS AT HALF HOLLOW SEWAGE TREATMENT PLANT WAS AN EXISTING SEWAGE TREATMENT PLANT WITH A RATED CAPACITY OF 330,000 GALLONS PER DAY. BASED ON AN ANALYSIS OF THE EXISTING FACILITY, IT WAS DETERMINED THAT THE PLANT HAD REACHED THE END OF ITS USEFUL LIFE AND A NEW FACILITY WAS TO BE CONSTRUCTED. THE PLANT WAS DESIGNED USING SEQUENCING BATCH REACTOR TECHNOLOGY WITH TERTIARY FILTRATION TO PROTECT THE FINAL WASTEWATER DISPOSAL FACILITIES.

THE NEW DESIGN INTEGRATED NEW LEACHING FACILITIES TO ACCOMMODATE THE SUFFOLK COUNTY DEPARTMENT OF PUBLIC WORKS (SCDPW) DESIGN REQUIREMENTS. ADDITIONALLY, A FULLY INTEGRATED CONTROL SYSTEM WAS DESIGNED TO AUTOMATE THE PLANT OPERATION AND PROVIDE ADDITIONAL OPERATIONAL FLEXIBILITY.

