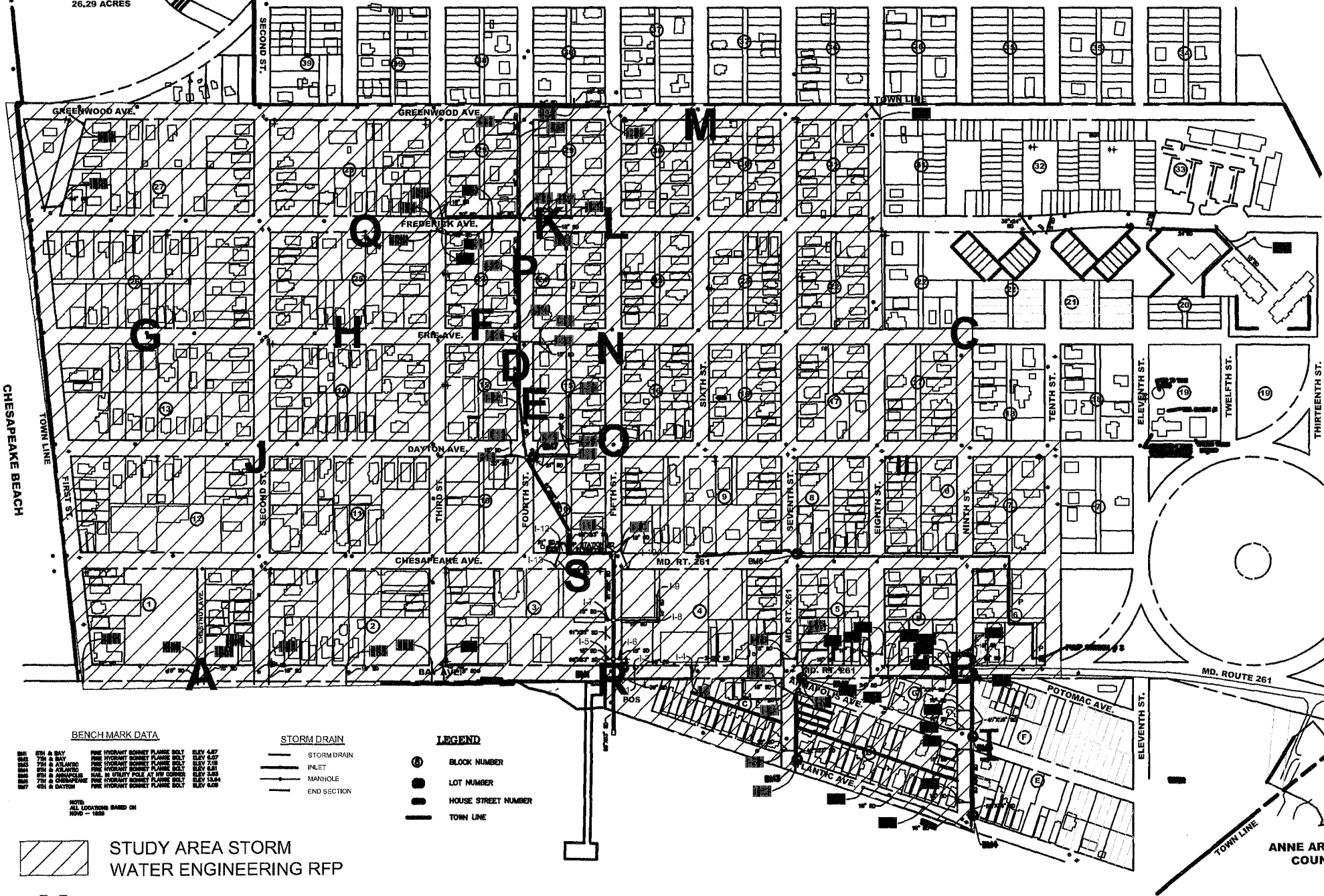


SAN FRANCISCO PROJECT
AREA ANNEXED 1996
26.29 ACRES

CALVERT COUNTY

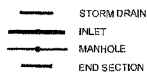


BENCH MARK DATA

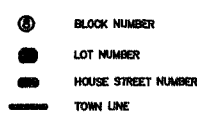
734 & BAY	PIPE HYDRANT BONNET PLANS BOLT	ELEV 4.87
736 & BAY	PIPE HYDRANT BONNET PLANS BOLT	ELEV 4.89
876 & ATLANTIC	PIPE HYDRANT BONNET PLANS BOLT	ELEV 5.10
876 & ANNEAPOLIS	MAN-HOLE TRUNK POLE AT THE CORNER	ELEV 5.85
776 & CHESAPEAKE	PIPE HYDRANT BONNET PLANS BOLT	ELEV 5.84
431 & DAYTON	PIPE HYDRANT BONNET PLANS BOLT	ELEV 6.04

NOTE:
ALL LOCATIONS BASED ON
NAD 83 - 1983

STORM DRAIN



LEGEND



STUDY AREA STORM WATER ENGINEERING RFP

X PROBLEM AREAS

ATT NO 1

TOWN OF NORTH BEACH
STORM WATER ENGINEERING RFP
1" = 400' JAN. 6, 2010

**NORTH BEACH DRAINAGE
PROBLEM AREAS**

1/5/09

Map Designation	Location	Observed Problem	Potential Solution
A	Bay Ave 1st to 3rd	standing water at several locations	need to fix or add inlets near flower boxes
B	9th St at Bay Ave	standing water on street	need to fix or add underdrain
C	9th St & Erie Ave	drainage from south side of Erie flows across intersection	need culvert pipe from SE corner to west side to discharge in wetland
D	4th Street Dayton to Erie	standing water in shoulder area near #4007	need to install inlet on ex. SD pipe
E	4th Street Dayton to Erie north side	open ditch does not drain well	need to install pipe & inlets; eliminate large pipes crossing to south side that are too high to catch drainage
F	Alley west of Erie mid block 3rd to 4th	area does not drain	check grading & drainage work when houses were built at corner of Erie & 4th.
G	Erie Ave 1st to 2nd east side	area behind homes does not drain well	need storm drain or curbing along east side of Erie to convey runoff to culvert pipe at 1st St.
H	Erie Ave 2nd to 3rd	runoff crossing from west side to east side of street	improve drain and inlets on west side possible asphalt work will also be needed.
I	Area north of 9th between Bay & Atlantic	high water in north wetlands flooding area	need berm to isolate 9th St from wetlands & Bay
J	SE corner, 2nd & Dayton	puddle at end of trench drain	improve drainage along south shoulder 2nd. Look into extending drain from Chesapeake Ave.
K	Federick Ave north of 5th east side	puddle next to house at NE corner.	install inlet in shoulder area and connect to inlet at NW corner.

<i>Map Designation</i>	<i>Location</i>	<i>Observed Problem</i>	<i>Potential Solution</i>
L	6th & Frederick	poor drainage	fix ditch line at SW corner
M	8th & Greenwood	puddle	redirect sump pump line
N	6th & Erie	puddle at SW corner	need culvert pipe or trench drain at south side of intersection
O	6th & Dayton	puddle at NW corner	need pipe & inlet
P	4th St. Erie to Frederick	problem at inlet on south side	fix or adjust inlet
Q	Frederick 2nd to 3rd	poor drainage along road edges	fix or regrade ditches.
R	Bay Ave at 5th	roadway flooding	improve 5th St. Out fall with new pump and larger tidflex valve; elevate roadway
S	Chesapeake Ave. south of 5th	roadway flooding	same as "R"