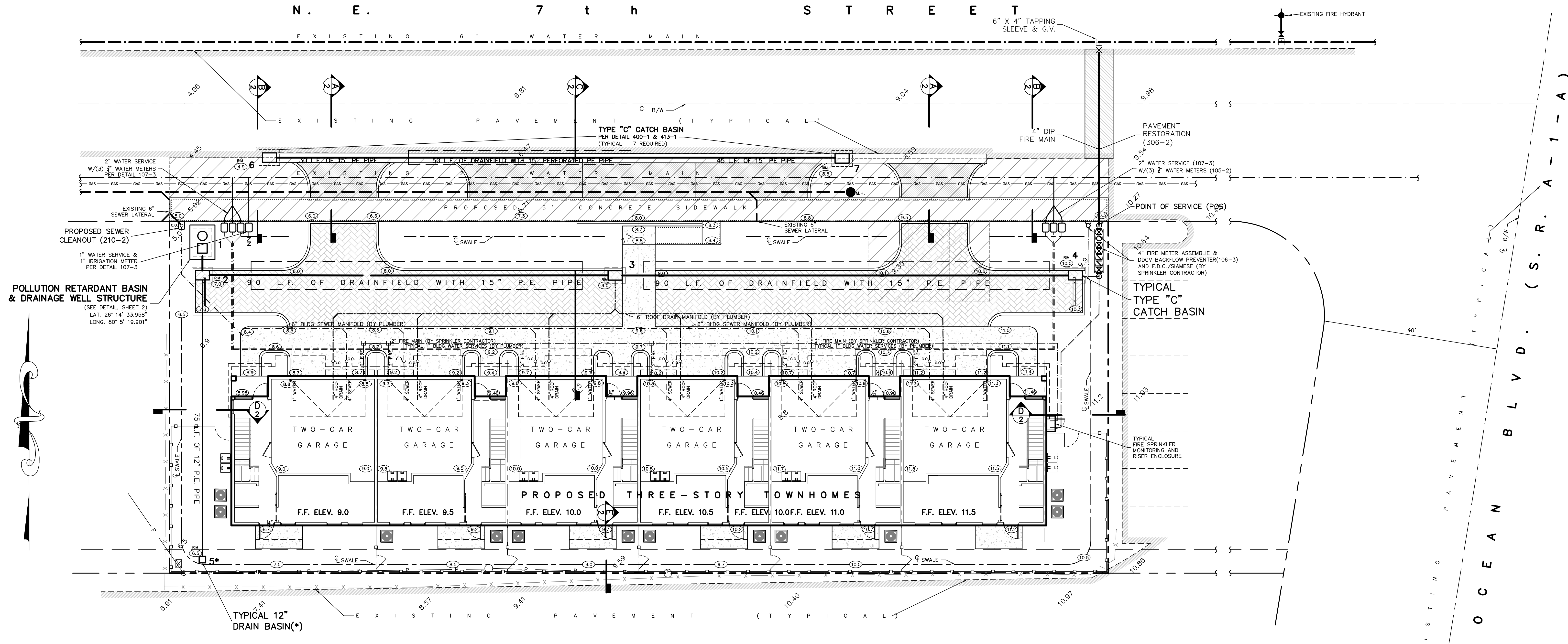


N. E. 7 t h S T R E E T



**POLLUTION RETARDANT BASIN & DRAINAGE WELL STRUCTURE**  
(SEE DETAIL SHEET 2)  
LAT. 26° 14' 33.958"  
LONG. 80° 5' 19.901"

**P L A N** SCALE: 1" = 10'

- NOTES:**
1. THE ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM - NAVD 1988
  2. PROPERTY LIES IN FLOOD ZONE X & VE 9 - AUG., 18, 2014
  3. THIS PLAN IS FOR PAVING AND DRAINAGE ELEVATIONS & DETAILS, AND UTILITIES LOCATIONS ONLY. FOR EXACT LAY-OUT, SEE SITE PLAN PREPARED BY ARCHITECT.
  4. NO LANDSCAPE MATERIAL (OTHER THAN SOD) SHALL BE PLACED WITHIN (5') FIVE FEET OF ANY CITY OWNED UTILITY LINES.
  5. ALL EXISTING WATER AND SEWER SERVICES NOT UTILIZED TO BE REMOVED UP TO THE MAIN
- WATER AND SEWER DEMAND:**  
6 UNIT, 3-BEDROOM TOWNHOMES @ 350 G.P.D./TOWNHOME = 2100 G.P.D.

**LEGEND:**

	EXISTING WATER MAIN		EXISTING ELEVATIONS
	PROPOSED WATER MAIN		PROPOSED ELEVATIONS
	EXISTING SEWER MAIN		DIRECTION OF RUN-OFF
	PROPOSED SEWER MAIN		EXISTING TEE
	EXISTING DRAINAGE		PROPOSED TEE
	PROPOSED DRAINAGE		EXISTING CATCH BASIN
	PROPOSED PAVER		PROPOSED CATCH BASIN
	BRICK PAVEMENT		EXISTING VALVE
	EXISTING PAVEMENT		PROPOSED VALVE
	PROPOSED PAVEMENT		EXISTING MANHOLE
	EXISTING BUILDING TO BE REMOVED		PROPOSED MANHOLE
	EXISTING UTILITIES TO BE REMOVED		EXISTING FIRE HYDRANT
			PROPOSED FIRE HYDRANT
			DENOTES BACTERIOLOGICAL SAMPLING POINTS

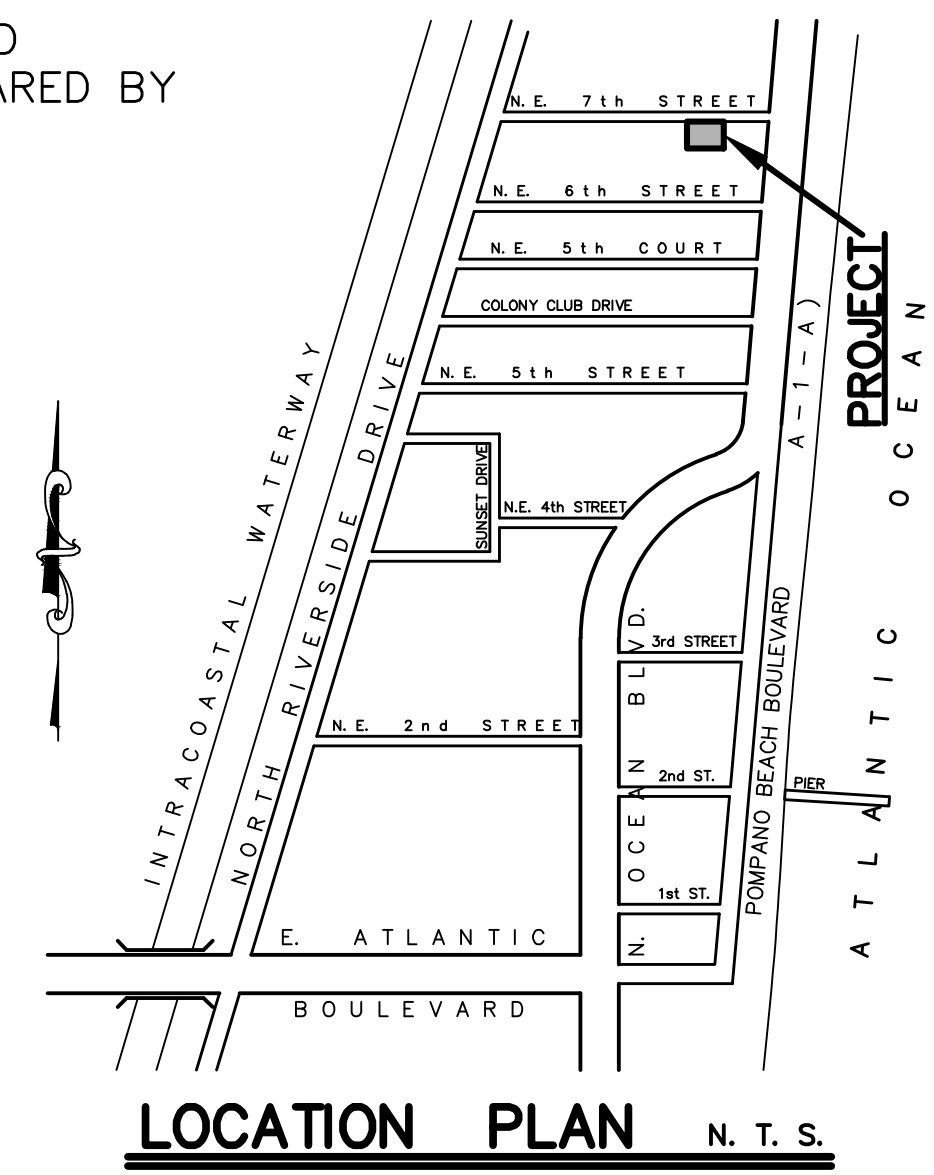
**DRAINAGE CALCULATIONS: (OFF-SITE)**  
Requirement: Retain 2-1/2" x 1/2" Impervious  
5000 S.F. x 2-1/2" x 70% = 730 C.F.

2. Drainfield Provided:  
H<sub>2</sub> = 2.5' W = 3'  
D<sub>0</sub> = 2.5' K = 1.5 x 10<sup>4</sup> (CFS/SF<sup>2</sup> - FT HEAD)  
D<sub>s</sub> = 1.5' L = 50'

a. Volume Stored in Trench  
V(C.F.) = 0.5 x W x D x L = 0.5 x 3 x 2.5 x 50 = 188 C.F.

b. Volume Exfiltrated  
V(C.F.) = 3600 K L [H<sub>2</sub>W + 2H<sub>2</sub>D<sub>0</sub> - D<sub>0</sub><sup>2</sup> + 2H<sub>2</sub>D<sub>s</sub>]  
= 3600 (1.5x10<sup>-4</sup>) (50) [2.5(3) + 2(2.5)2.52.5 - 2(2.5)1.5] = 574 C.F.

Total = 762 C.F.



**LEGAL DESCRIPTION:**  
LOTS 3 AND 4, "ATLANTIC VIEW", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 26, PAGE 19, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

PAVING, GRADING, AND DRAINAGE WATER AND SEWER SERVICE CONNECTIONS PLAN			
GUSTAVO J. CARBONNEL ARCHITECT FORT LAUDERDALE, FLORIDA			
OCEAN AZUL TOWNHOMES			
JOHN B. SMITH ENGINEERS, INC. 250 S.W. 6th PLACE POMPANO BEACH, FLORIDA 33060 PHONE: (954) 763-4177 CERTIFICATE OF AUTHORIZATION NO. 1688			
DESIGN R.C.S.	DRAWN RCS	DATE AUG., 2018	FILE 18-147
Approved By: Robert C. Smith, P.E. Registered Engineer No. 31177			SHEET C10F 3

N. O C E A N B L V D . ( S . R . A - 1 - A )