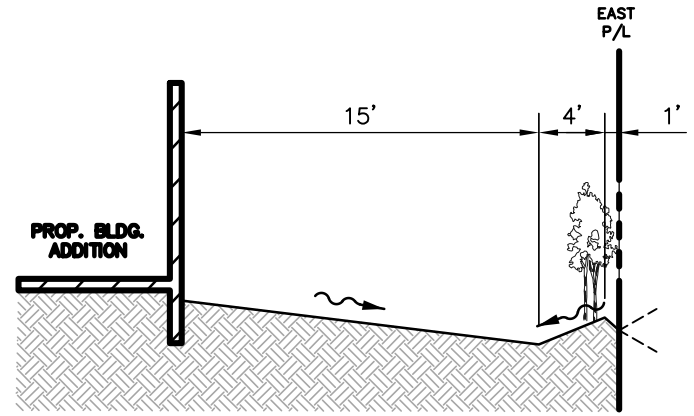
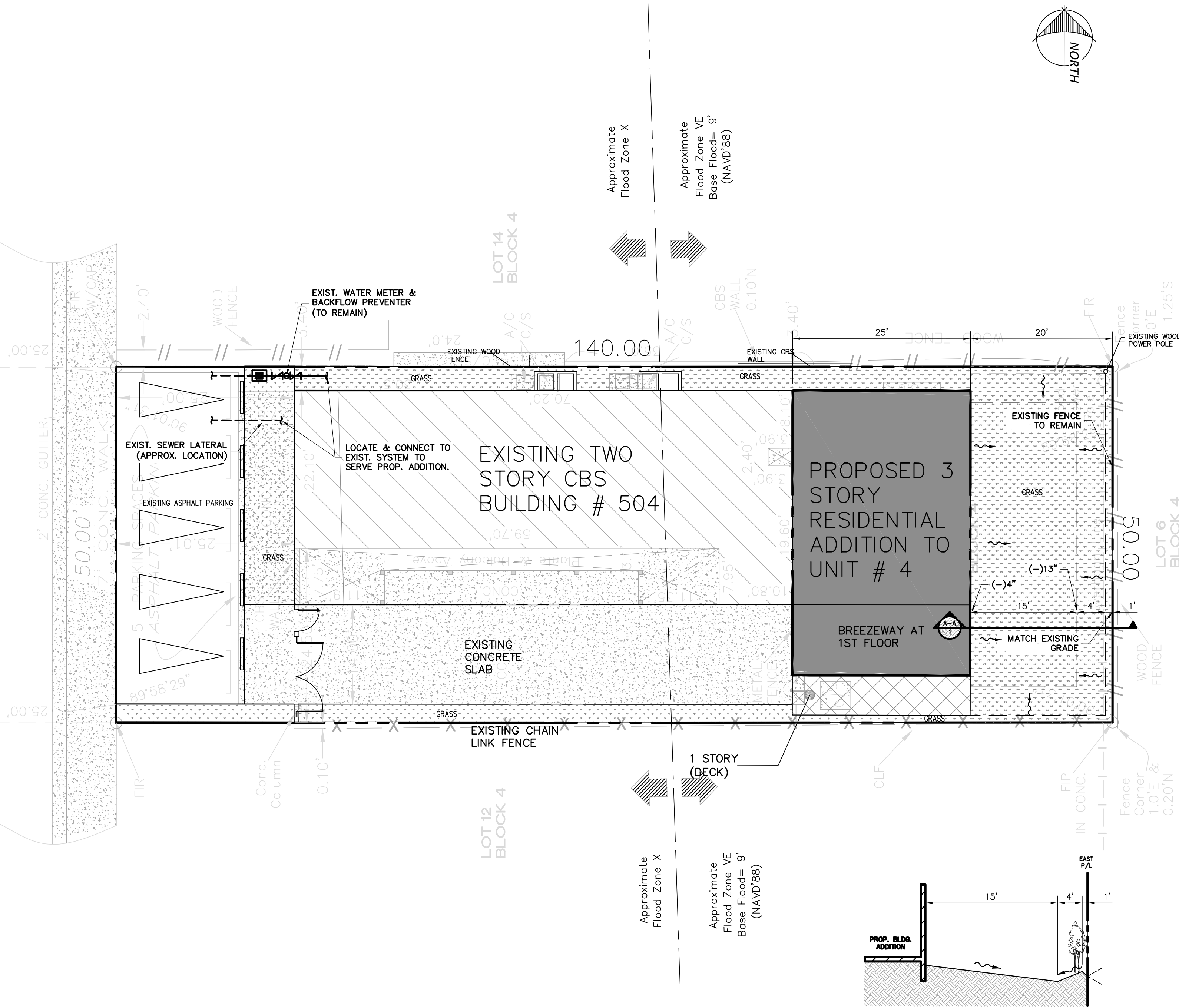


OCEAN BOULEVARD
STATE ROAD No. A-1-A

50.0' RIGHT OF WAY PER PLAT
40.0' ASPHALT ROAD



USMAN - 504 S. OCEAN BLVD.
SURFACE WATER MANAGEMENT CALCULATIONS

HORIZONTAL SURFACE LAND USE BREAKDOWN		
LAND USE	AREA	PERCENT
EX BUILDING	0.04	24%
EX PAVEMENT	0.06	38%
EX GREEN	0.06	38%
TOTAL	0.16	100%
AFFECTED AREA		
PROP. BUILDING	0.024	51%
GREEN	0.023	49%
TOTAL	0.047	100%

Water Quality Calculations:

Water Quality Required

A. Compute the first inch of runoff from the entire site.

$$= 1 \text{ inch} \times \text{Total Area} \times (1 \text{ ft} / 12 \text{ in})$$
$$= 0.004 \text{ ac-ft} \quad (\text{CONTROLS})$$

B. Compute 2.5 inches times the percentage of imperviousness.

a. Site Area (SA), for water quality pervious/impervious calculations only

$$SA = \text{Total Area} - (\text{Roof})$$
$$= 0.023 \text{ Acres}$$

b. Impervious Area (IA), for water quality pervious/impervious calculations only

$$IA = \text{Site Area(SA)} - \text{Pervious Area}$$
$$= 0.000 \text{ Acres}$$

c. Percentage of imperviousness for water quality

$$\%imp = (IA / SA) \times 100\%$$
$$= 0.000 \%$$

d. For 2.5 inches times percentage of imperviousness

$$= 2.5 \text{ inches} \times \%imp$$
$$= 0.000 \text{ inches}$$

e. Compute volume required for quality detention

$$= \text{inches to be treated} \times (\text{total site} - \text{lake}) \times (1 \text{ ft} / 12 \text{ in})$$
$$= 0.000 \text{ ac-ft}$$

C. Since the first inch of runoff over the entire site is greater than 2.5 inches times the percentage of impervious, the volume to be treated is:

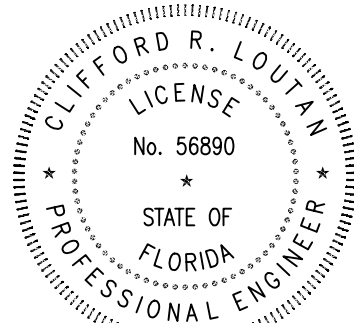
$$\text{Volume to be treated} = \frac{\text{ac-ft}}{0.004} \quad \text{Cubic feet (C.F.)}$$
$$= 171 \text{ (required)}$$

Water Quality Provided

A. Dry retention area storage (Provided)

Area	L (ft)	W (ft)	D (ft)	Volume (c.f.)
15	40	0.75		225

$$\text{VOLUME PROVIDED} = 225 \text{ C.F.}$$



Date: April 6, 2021

This item has been digitally signed and sealed by CLIFFORD R. LOUTAN, P.E., on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Clifford R Loutan
2021.04.06 19:34:24 -04'00'

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Sun-Tech
Engineering, Inc.
Engineers • Planners • Surveyors

STE

REVISIONS BY

PROPERTY OWNER:
ANAM USMAN
PROPERTY ADDRESS:
504 SOUTH OCEAN BLVD
POMPANO BEACH FL

TITLE SHEET
ENGINEERING PLAN

ARCHITECT:
LUIS E. URIARTE
Florida Architect License # AR 94-107
18100 ATLANTIC BOULEVARD PHONE
786 290 9807 Email: invusa@live.com

DRAWN BY:
LUIS URIARTE
DATE: **04.06.2021**
SCALE: **AS NOTED**
PROJECT:

SHEET
001

PZ21-12000018

7/7/2021