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Legend

EXISTING ELEVATION PER

EXFILTRATION TRENCH

24" NYLOPLAST DRAIN BASIN

Scale: 1/8" = 1'-0"

AREA DRAIN

WALLACE SURVEYING CORP. (NAVD-88)

PROPOSED ELEVATION (NAVD-88)

48 HOURS BEFORE DIGGING CALL 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC. Contractor is responsible for obtaining location of existing utilities prior to commencement of construction activities.

Location Map

N.T.S.



'ation Renova pe

Chad M. Gruber

FL P.E. No. 57466

Sheet No.

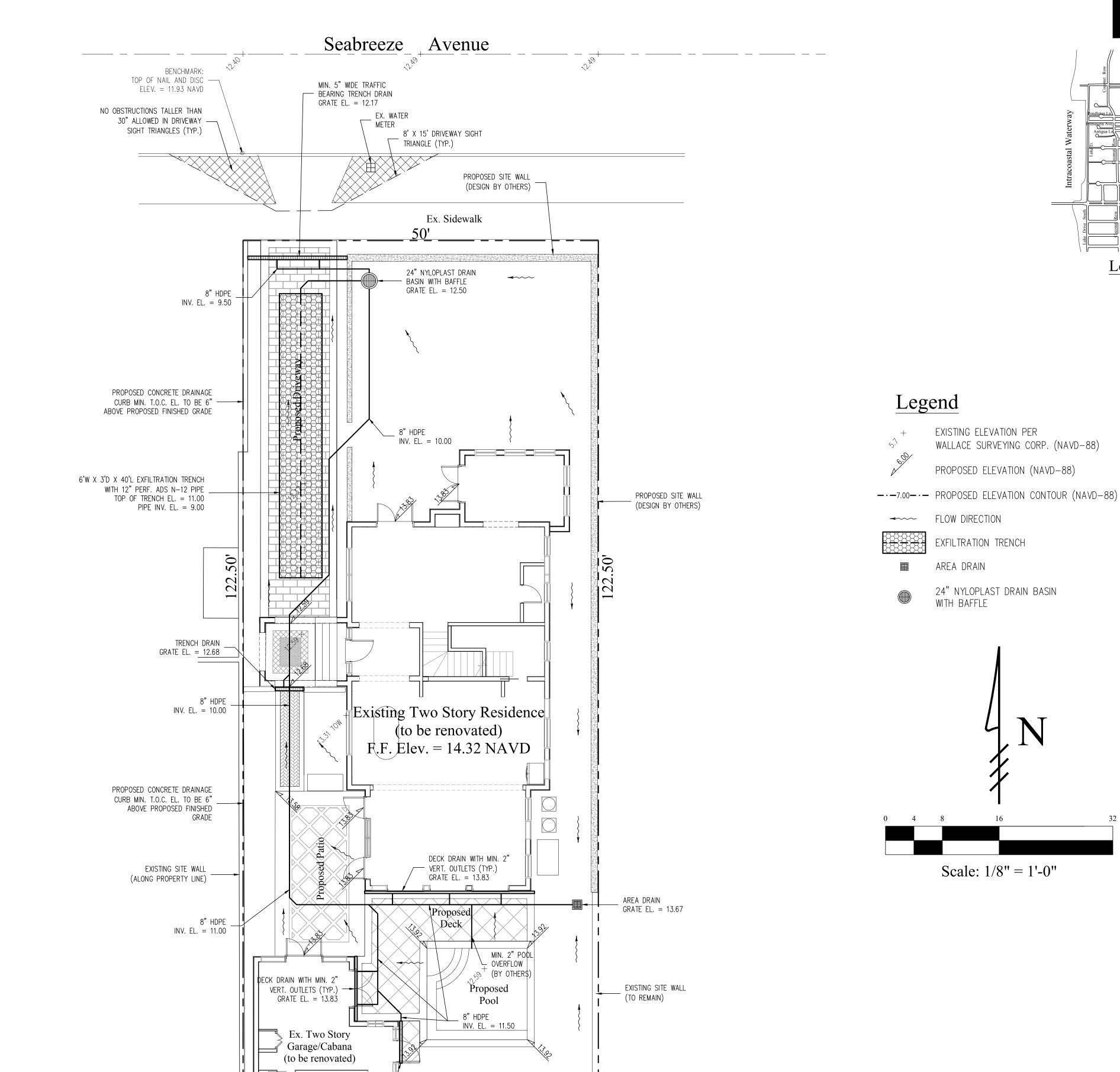
**C-1** 

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> Plan Background from Hardscape Plan by Todd Maclean Received 10/5/22

HSB-22-017 ZON-23-005

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EXISTING SITE WALL

(TO REMAIN)

EX. POWER POLE -

DECK DRAIN WITH MIN. 2"
VERT. OUTLETS (TYP.) —
GRATE EL. = 13.83

STORMWATER RETENTION CALCULATIONS

A. <u>SITE INFORMATION</u>

C = 1.0 (impervious surface)

Impervious Surface Runoff Volume:

Total Volume to be Retained = 675 cu.ft.

Trench Width

roots with a root barrier.

each affected lane.

installation of sod.

control measures during construction.

 $1.0^{\circ} \times 2 \text{ in/hr } \times 3,526 \text{ sq.ft.} \times 1 \text{ ft./12 in.} = 588 \text{ cu.ft.}$ 

 $0.2 \times 2 \text{ in/hr} \times 2,599 \text{ sq.ft.} \times 1 \text{ ft./}12 \text{ in.} = 87 \text{ cu.ft.}$ 

C. PROPOSED EXFILTRATION TRENCH SIZING

Hydraulic Conductivity

Saturated Trench Depth

Depth to Water Table

L = Total Length of Trench Provided = 40 ft

DU = Un-Saturated Trench Depth = 3.00 ft

1) Exfiltration trenches and storm piping to be protected from

2) Roof drain downspouts are to be connected to the proposed

drainage system. Contractor to provide engineer with

downspout locations prior to installation of drainage system.

hydraulic conductivity prior to exfiltration trench installation.

of 50 ft. on either side of the excavation the entire width of

5) Contractor is responsible for installing and maintaining erosion

6) Video inspection of storm drainage system required prior to

3) Exfiltration trench design uses an assumed value of hydraulic conductivity. Client may obtain a site specific test for

4) Contractor shall mill and overlay all roadway cuts a minimum

= 6 ft

= 6.00 ft

= 0.00 ft

= 820 cu.ft.

= 0.00005 cfs/sq.ft./ft. of head

C = 0.2 (pervious surface)

Pervious Runoff Volume:

i = 2 in/hr

Notes:

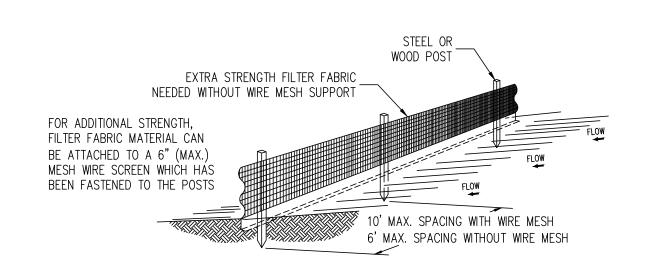
Total Property Area = 6,125 sq.ft.

Drainage Area Impervious Surface = 3,526 sq.ft.

B. ESTIMATED STORMWATER RETENTION VOLUME

The retention volume is estimated using the Rational Method (Q=CiA)

Drainage Area Pervious Surface = 2,599 sq.ft.

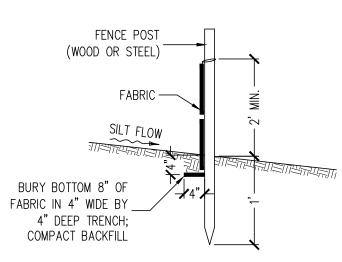


#### Notes

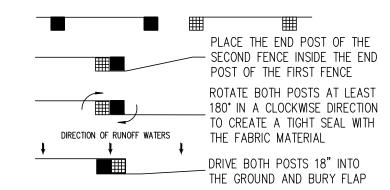
- 1) The height of a silt fence shall not exceed 36".
- 2) Filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints.
- 3) Posts shall be spaced a maximum of 10' apart at the barrier location and driven securely into the ground a minimum of 12". When extra strength fabric is used without the wire support fence, post spacing shall not
- 4) A trench shall be excavated approximately 4" wide and 4" deep along
- the line of posts and upslope from the barrier.

  5) When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least 1" long, tie wires, or hog rings. The wire shall extend into the trench a minimum of 2" and shall not extend more than 36" above the original ground surface.
- 6) The standard strength filter fabric shall be stapled or wired to the fence, and 8" of the fabric shall be extended into the trench. The fabric shall not extend more than 36" above the original ground surface.
- 7) The trench shall be backfilled and the soil compacted over the filter

## SILT FENCE DETAIL N.T.S.



### SILT FENCE SECTION N.T.S.



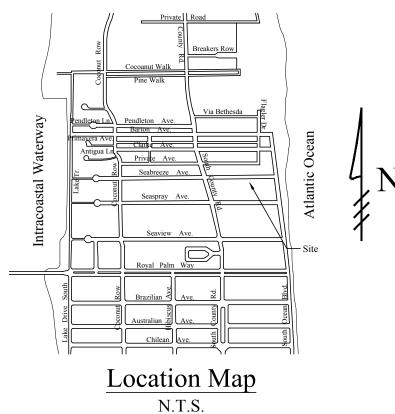
# ATTACHING TWO SILT FENCES N.T.S.

#### Notes:

- 1) Contractor is responsible for installing and maintaining erosion control measures during construction.
- 2) Contractor to investigate condition of existing sewer service prior to building permit submittal. If existing service is cast iron, or in poor condition, service will be replaced to main per Town of Palm Beach standards.







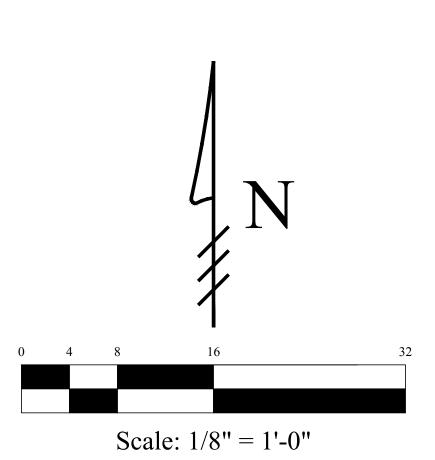
N	Gruber Consultin Engineers, Inc.		2475 MERCER AVE., SUITE	WEST FALM BEACH, FL 534 PHONE: 561.312.2041	. (	office@gruberengineers.com
	formation	2022-0123	11/02/2022	1/8" = 1'-0"	KM	CG

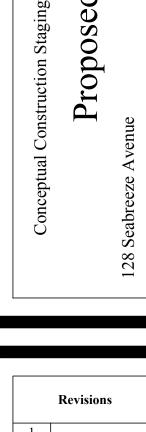
Project Information	formation
Project No.	2022-0123
Issue Date	11/02/2022
Scale	1/8" = 1'-0"
Drawn By	KM
Checked By	DO

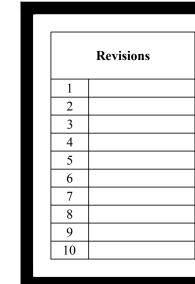
#### Legend

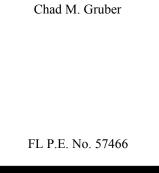
CONSTRUCTION STAGING AREA

— SILT FENCE (SEE DETAIL)









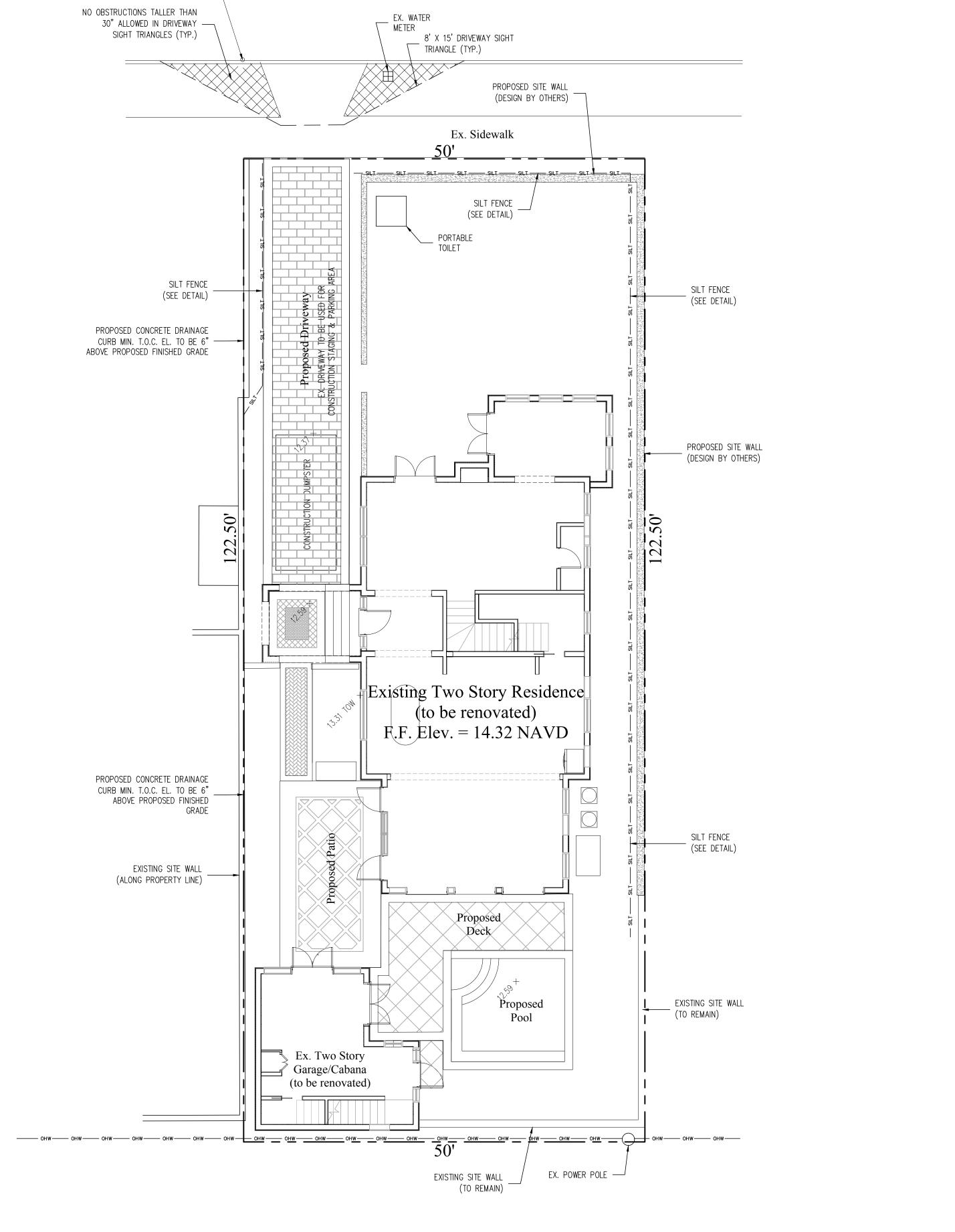
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Maclean Received 10/5 HSB-22-017 ZON-23-005 EC-1

Sheet No.



Seabreeze Avenue

BENCHMARK:
TOP OF NAIL AND DISC —
ELEV. = 11.93 NAVD