



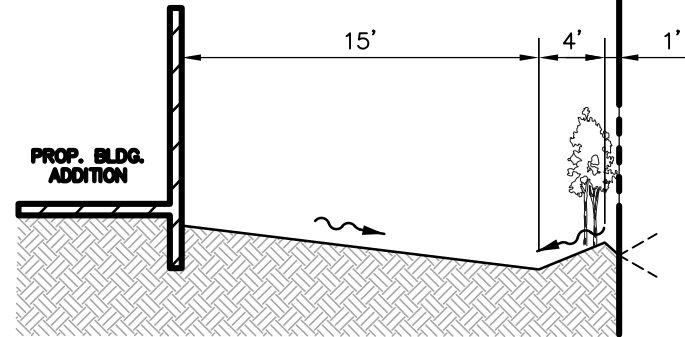
FIRE HYDRANT LOCATION EXHIBIT

SCALE = NTS

NOTE:

(1) CONTRACTOR TO UTILIZE STORMWATER POLLUTION PREVENTION SYSTEM AND BEST MANAGEMENT PRACTICES INCLUDING THE USE OF INSTALL SILT FENCE, SYNTHETIC BALES, DAILY STREET SWEEPING, INLET COVERING, ETC. TO PREVENT OFF-SITE MIGRATION OF DIRT AND DEBRIS.

(2) ANY EXIST. UNUTILIZED WATER AND SEWER CONNECTIONS NOT BEING USED SHALL BE TERMINATED AT THE MAIN PER CITY SPECIFICATIONS.



SECTION A-A
SCALE = NTS

Water Quality Calculations:

Water Quality Required

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

=	1 inch x Total Area x (1 ft / 12 in)
=	0.004 ac-ft (CONTROL)

B. Compute 2.5 inches times the percentage of imperviousness.

- | | | | | | |
|----|---|--|--|--|--|
| a. | Site Area (SA), for water quality pervious/impervious calculations <u>only</u>
$SA = \frac{\text{Total Area} - (\text{Roof})}{0.023}$ Acres | | | | |
| b. | Impervious Area (IA), for water quality pervious/impervious calculations <u>only</u>
$IA = \text{Site Area}(SA) - \text{Pervious Area}$ Acres | | | | |
| c. | Percentage of imperviousness for water quality
$\%imp = \frac{IA}{SA} \times 100\%$ 0.000 % | | | | |
| d. | For 2.5 inches times percentage of imperviousness
$= 2.5 \text{ inches} \times \%imp$ 0.000 inches | | | | |
| e. | Compute volume required for quality detention
$= \text{inches to be treated } x (\text{total site} - \text{lake}) \times (1 \text{ ft} / 12 \text{ in})$ 0.000 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:

			ac-ft	Cubic feet (C.F.)
Volume to be treated =		0.004	171	(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

VOLUME PROVIDED = 225 C.F.

A circular professional engineer seal for Clifford R. Loutan. The outer ring contains the name "CLIFFORD R. LOUTAN" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the word "LICENSE" at the top, the license number "No. 56890" in the center, and "STATE OF FLORIDA" at the bottom, also separated by two stars.

Date: September 28, 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

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DATE	04.06.2021
SCALE:	1 : 100000

PROJECT :

SHEET
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PZ21-12000018

11/03/2021