














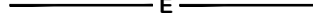







# LEGEND

	EXISTING CONCRETE
	PROPOSED CONCRETE
	EXISTING ASPHALT PAVEMENT (TO REMAIN)
	PROPOSED ASPHALT PAVEMENT
	PROPOSED STOP SIGN
	PROPOSED SEWER CLEAN-OUT
	EXISTING ELEVATION (NAVD)
	PROPOSED ELEVATION (NAVD)
	PROPOSED FIRE HYDRANT
	PROPOSED DRAINAGE FLOW ARROW
	PROPOSED SITE LIGHT
	EXISTING WATER LINE
	EXISTING GRAVITY SEWER MAIN
	EXISTING STORM DRAINAGE MAIN
	EXISTING GAS MAIN
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING UNDERGROUND TELECOMMUNICATIONS LINE
	EXISTING WATER REUSE MAIN
	EXISTING OVERHEAD UTILITY WIRES
	PROPOSED TYPE D CONCRETE CURB
	PROPOSED BOLLARD

**NEW 4-STORY R-2 APARTMENT BUILDING**

**FIRE FLOW AREA =** 32,854 SF

**PER §18.4.5.2.1:**

**REQUIRED FIRE FLOW =** 3750 GPM

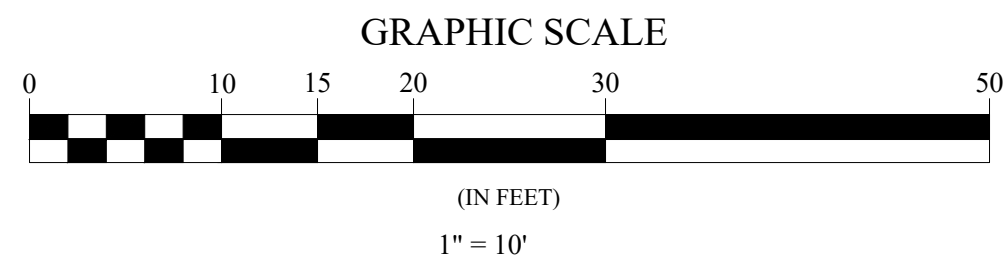
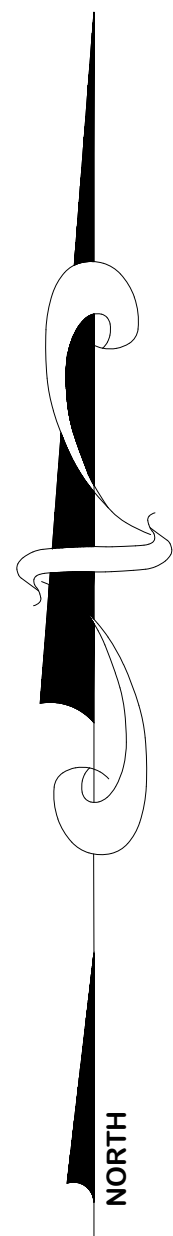
**REQUIRED FLOW DURATION =** 3 HOURS

**PER §18.4.5.3.2:**

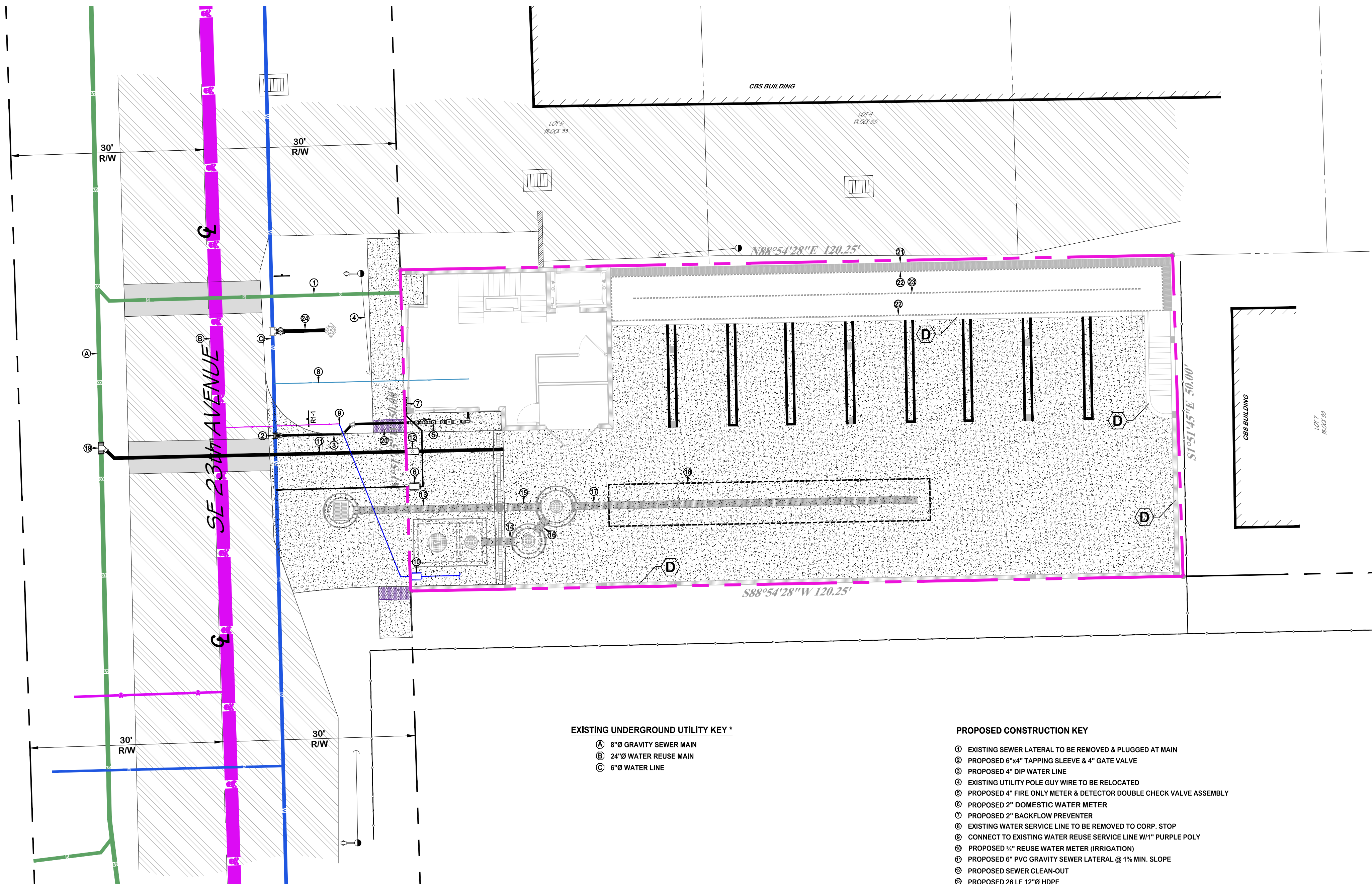
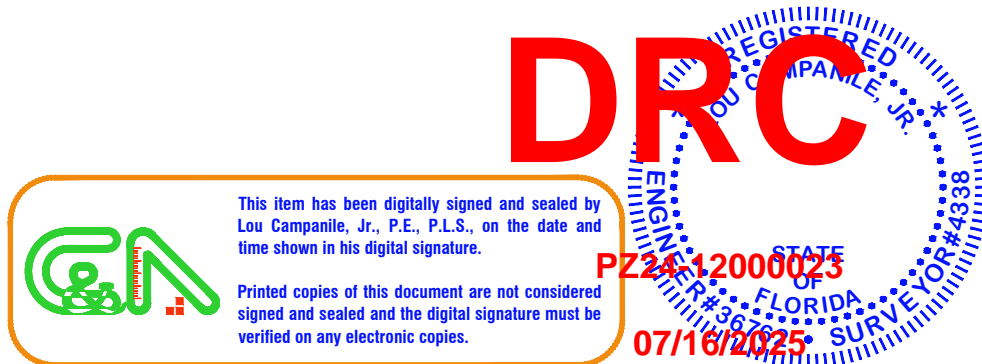
**FIRE SPRINKLER REDUCTION =** 75%

**REQUIRED FIRE FLOW =**  $3750 \times 0.25 = 937.5$  GPM

**1000 GPM**



1. ANY EXISTING WATER AND/OR SEWER CONNECTION TO THE SUBJECT LOTS NOT UTILIZED MUST BE CUT AND CAPPED AT THE WATER MAIN IF A WATER SERVICE AND CUT OUT AND SLEEVED IF A SEWER LATERAL. SEWER LATERALS THAT ARE CUT AND CAPPED MUST BE AS-BUILT PER OUR ENGINEERING AS-BUILT STANDARDS. AFTER THE LATERAL HAS BEEN INSTALLED, THE OLD CLAY PIPE AND A CIPF LINER IS INSTALLED. (INSTALL A SECTIONAL LINER IN THE MAIN OVER THE OLD LATERAL, THUS ELIMINATING THE LATERAL) IF THE EXISTING MAIN IS A CLAY PIPE, (DIG DOWN CUT OLD CLAY PIPE, SLEEVE BACK IN WITH PVC AND CITY-APPROVED COUPLINGS) IF THE EXISTING MAIN IS CLAY PIPE, YOU MUST RETIRE MULTIPLE LATERALS FOR A PROJECT. (IT MAY BE CHEAPER FOR THE CONTRACTOR TO INSTALL A CITY-APPROVED CIPF LINER FROM MANHOLE TO MANHOLE AND NOT CUT OUT THE LATERALS THAT THEY ARE RETIRING) IF THE EXISTING MAIN IS PVC PIPE, (REMOVE OLD LATERAL PIPE FROM THE PVC PIPE FITTING AND INSTALL A PLUG INTO THE WYE, INSTALL A GREEN LOCATING MARKING BALL AT THE LATERAL LOCATING, NO DEEPER THAN 4' FT. BELOW GRADE)



(A) 8"Ø GRAVITY SEWER MAIN  
 (B) 24"Ø WATER REUSE MAIN  
 (C) 6"Ø WATER LINE

- ① EXISTING SEWER LATERAL TO BE REMOVED & PLUGGED AT MAIN
- ② PROPOSED 6"x4" TAPPING SLEEVE & "G" GATE VALVE
- ③ PROPOSED 4" DIP WATER LINE
- ④ PROPOSED 4" UTILITY POLY PIPE TO BE RELOCATED
- ⑤ PROPOSED 4" FIRE ONLY METER & DETECTOR DOUBLE CHECK VALVE ASSEMBLY
- ⑥ PROPOSED 2" DOMESTIC WATER METER
- ⑦ PROPOSED 2" BACKFLOW PREVENTER
- ⑧ EXISTING WATER SERVICE LINE TO BE REMOVED TO CORP. STOP
- ⑨ CONNECT TO EXISTING WATER REUSE SERVICE LINE W/1" PURPLE POLY
- ⑩ PROPOSED 1" REUSE WATER METER (IRRIGATION)
- ⑪ PROPOSED 6" PVC GRAVITY SEWER LATERAL @ 1% MIN. SLOPE
- ⑫ PROPOSED SEWER CLEAN-OUT
- ⑬ PROPOSED 26 LF 12"x8" HDPE
- ⑭ PROPOSED 6 LF 12"x8" HDPE
- ⑮ PROPOSED 5 LF 12"x8" HDPE
- ⑯ PROPOSED 3 LF 12"x8" HDPE
- ⑰ PROPOSED 5 LF 12"x8" HDPE
- ⑱ PROPOSED 50 LF EXFILTRATION TRENCH
- ⑲ PROPOSED 8"x6" PVC SEWER WYE
- ⑳ PROPOSED DETECTABLE WARNING STRIP
- ㉑ PROPOSED PERIMETER BERM TOP @ ELEVATION 7.5 NAVD
- ㉒ PROPOSED ELEVATION 7.0 NAVD CONTOUR
- ㉓ PROPOSED ELEVATION 6.1 NAVD CONTOUR
- ㉔ PROPOSED 6" DIP FIRE LINE


**ELIAS APARTMENT BUILDING**  
216 SE 23 AVENUE  
POMPAÑO BEACH, FLORIDA 33062-5304

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**WATER & SEWER PLAN**

Lou Campanile, Jr.  
Professional Engineer No. 36762  
Professional Surveyor and Mapper No. 4338  
State of Florida

**CAMPANILE & ASSOCIATES, INC.**  
*ENGINEERS PLANNERS SURVEYORS*



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PROJECT NO. 5391	
DATE	10/9/24
REVISIONS	
4/18/25	
5/14/25	
6/4/25	
DRAWING	
WS-2	
SHEET	