

CURSORY EVALUATION OF EXISTING 10" VITRIFIED CLAY PIPE WASTEWATER LINE

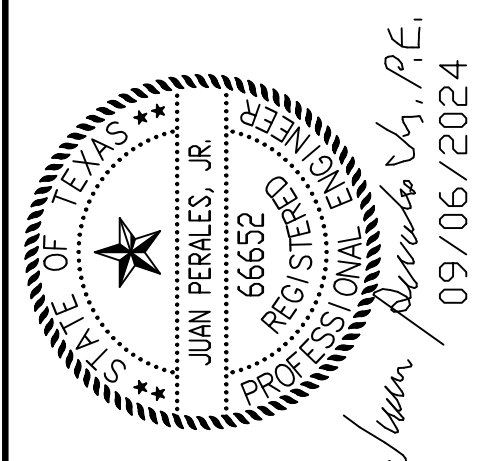
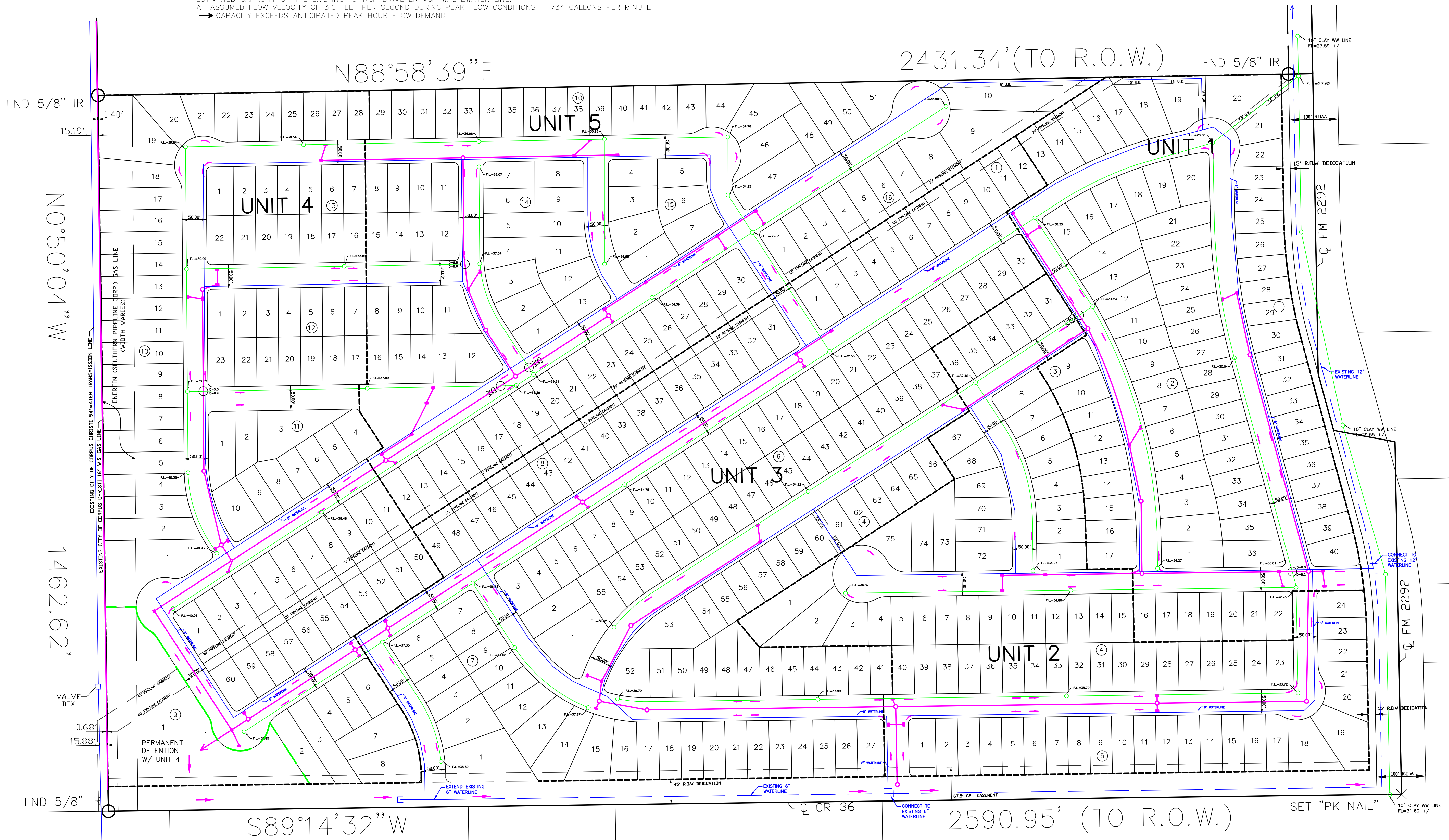
CURRENT FLOW INTO PIPE SEGMENT UPSTREAM FROM THE PROPOSED CLARKWOOD ESTATES SUBDIVISION COMES FROM THE SAN JUAN ADDITION.
 NUMBER OF PLATTED LOTS WITHIN THE SAN JUAN ADDITION = 181
 181 LOTS X 3.5 CAPITA PER LOT = 633 CAPITA
 633 CAPITA X 100 GALLONS PER CAPITA PER DAY = 63,350 GALLONS PER DAY AVERAGE FLOW
 CURRENT FLOW INTO PIPE SEGMENT UPSTREAM FROM THE PROPOSED CLARKWOOD ESTATES SUBDIVISION COMES FROM THE SEAMIST MOBILE HOME PARK.
 NUMBER OF MOBILE HOME SITES WITHIN THE SEAMIST PARK = 175
 175 SITES X 3.5 CAPITA PER SITE = 613 CAPITA
 613 CAPITA X 100 GALLONS PER CAPITA PER DAY = 61,300 GALLONS PER DAY AVERAGE FLOW
 NUMBER OF PROPOSED SINGLE FAMILY RESIDENTIAL LOTS IN THE CLARKWOOD ESTATES SUBDIVISION = 477
 477 LOTS X 3.5 CAPITA PER LOT = 1670 CAPITA
 1670 CAPITA X 100 GALLONS PER CAPITA PER DAY = 167,000 GALLONS PER DAY AVERAGE FLOW
 TOTAL ESTIMATED FLOW INCLUDING THE CLARKWOOD ESTATES SUBDIVISION
 = 291,550 GALLONS PER DAY AVERAGE FLOW
 ESTIMATED PEAK HOUR FLOW WITH PEAK FACTOR 3.0 = 608 GALLONS PER MINUTE

ESTIMATED CAPACITY OF THE EXISTING 10" INCH DIAMETER VCP WASTEWATER LINE:
 AT MINIMUM TCEQ FLOW VELOCITY OF 2.0 FEET PER SECOND = 704160 GALLONS PER DAY
 → CAPACITY EXCEEDS ANTICIPATED AVERAGE DAILY FLOW DEMAND

ESTIMATED CAPACITY OF THE EXISTING 10" INCH DIAMETER VCP WASTEWATER LINE:
 AT ASSUMED FLOW VELOCITY OF 3.0 FEET PER SECOND DURING PEAK FLOW CONDITIONS = 734 GALLONS PER MINUTE
 → CAPACITY EXCEEDS ANTICIPATED PEAK HOUR FLOW DEMAND

MUNICIPAL WATER SERVICE NOTES:

PER THE TEXAS PUBLIC UTILITY COMMISSION RECORDS/MAPS, THE PROPOSED DEVELOPMENT FALLS WITHIN THE BOUNDARIES OF THE CITY OF CORPUS CHRISTI CERTIFICATED AREA OF CONVENIENCE AND NECESSITY (PUC #10554). THE PROPERTY IS CURRENTLY LOCATED OUTSIDE OF THE CITY OF CORPUS CHRISTI CITY LIMITS. ANNEXATION PROCEEDINGS THAT WILL EXTEND CITY LIMITS BOUNDARIES TO INCLUDE THE PROPOSED DEVELOPMENT ARE UNDERWAY AND ANTICIPATED TO BE COMPLETED BY NOVEMBER 1, 2024.



PRELIMINARY UTILITIES
 SCHEMATIC
 CLARKWOOD ESTATES
 Corpus Christi, Texas

J. Peralas Civil Engineering and
 Planning Services
 TBPE FIRM No. F-14207
 jperalasc@jperalascengineering.com
 5866 S. Staples Street
 Corpus Christi, Texas 78413
 Tel: (361) 728-7188

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