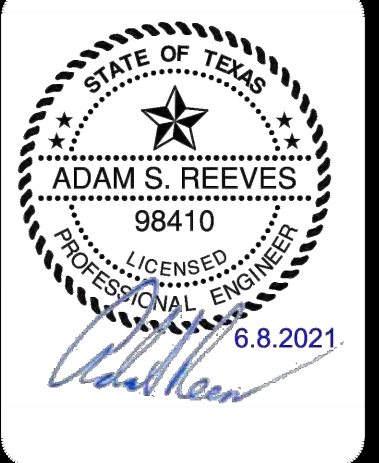


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PAPE-DAWSON ENGINEERS

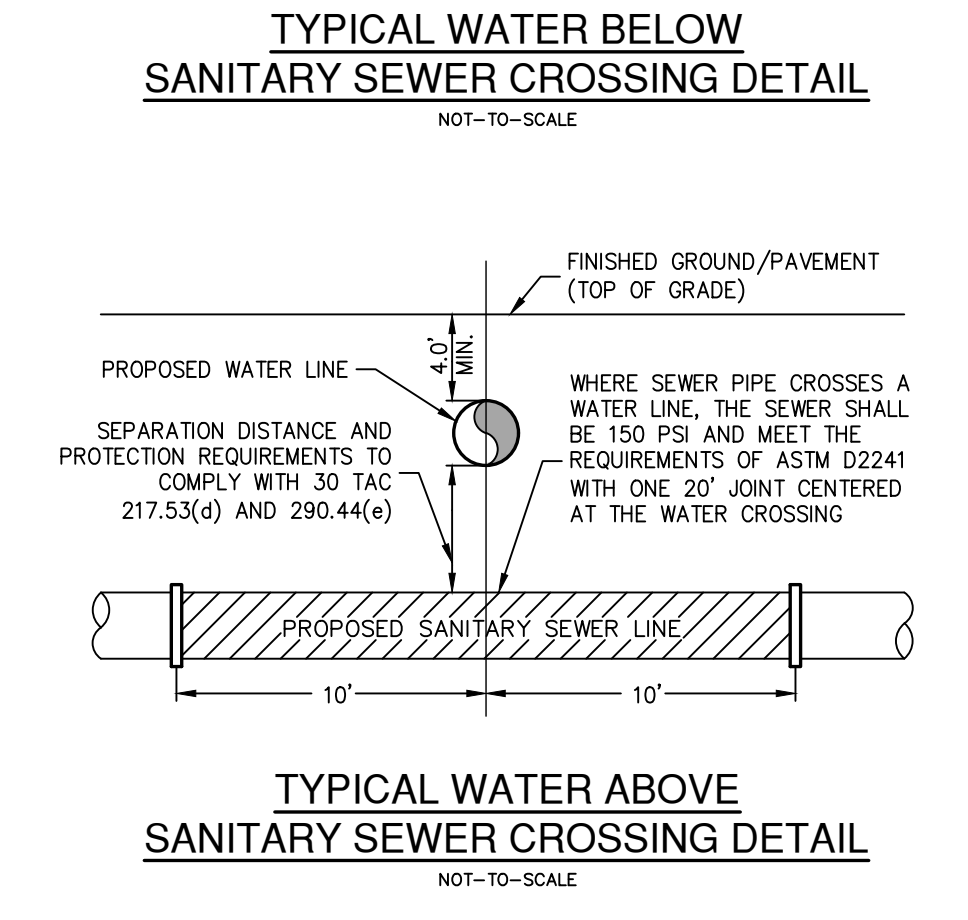
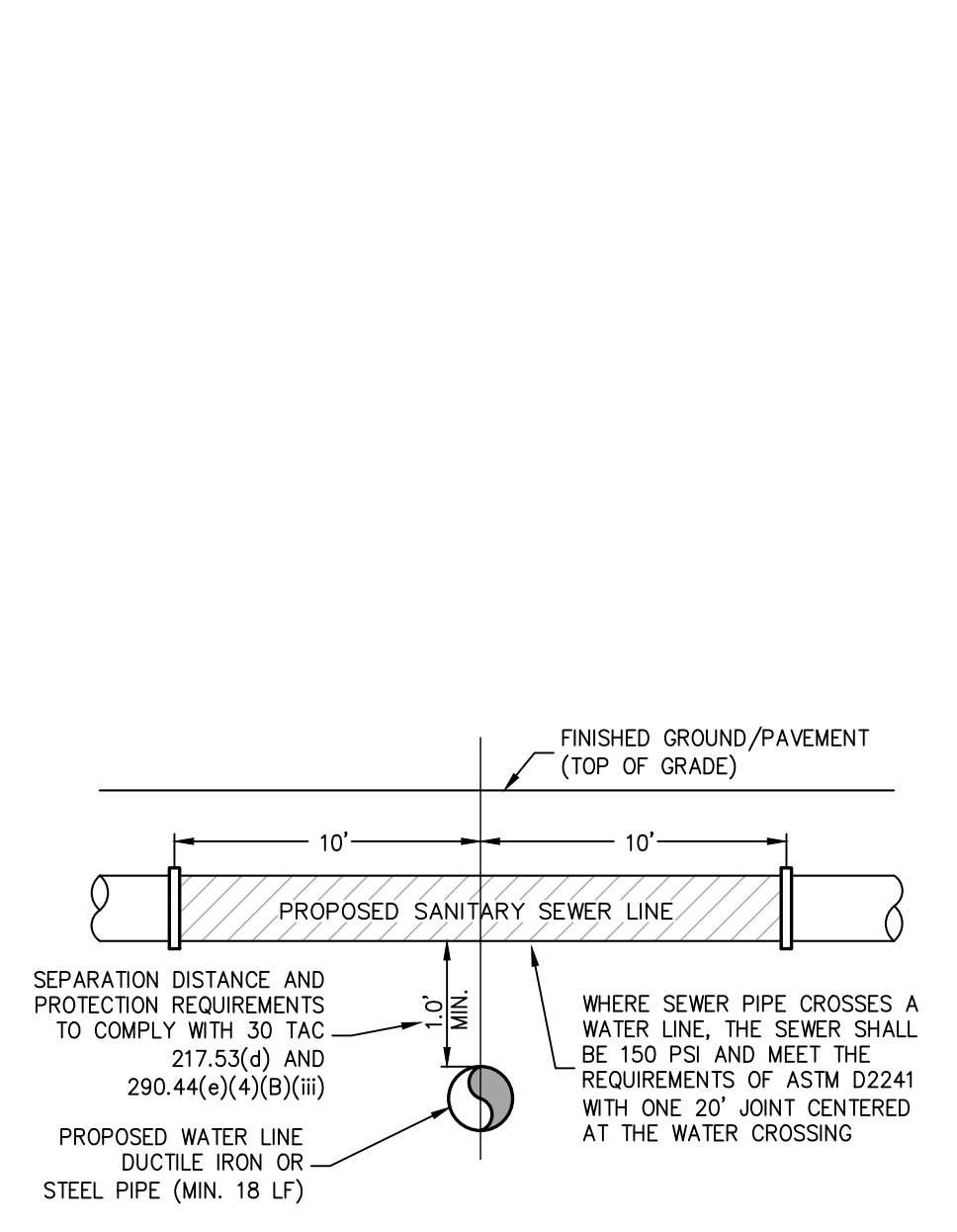
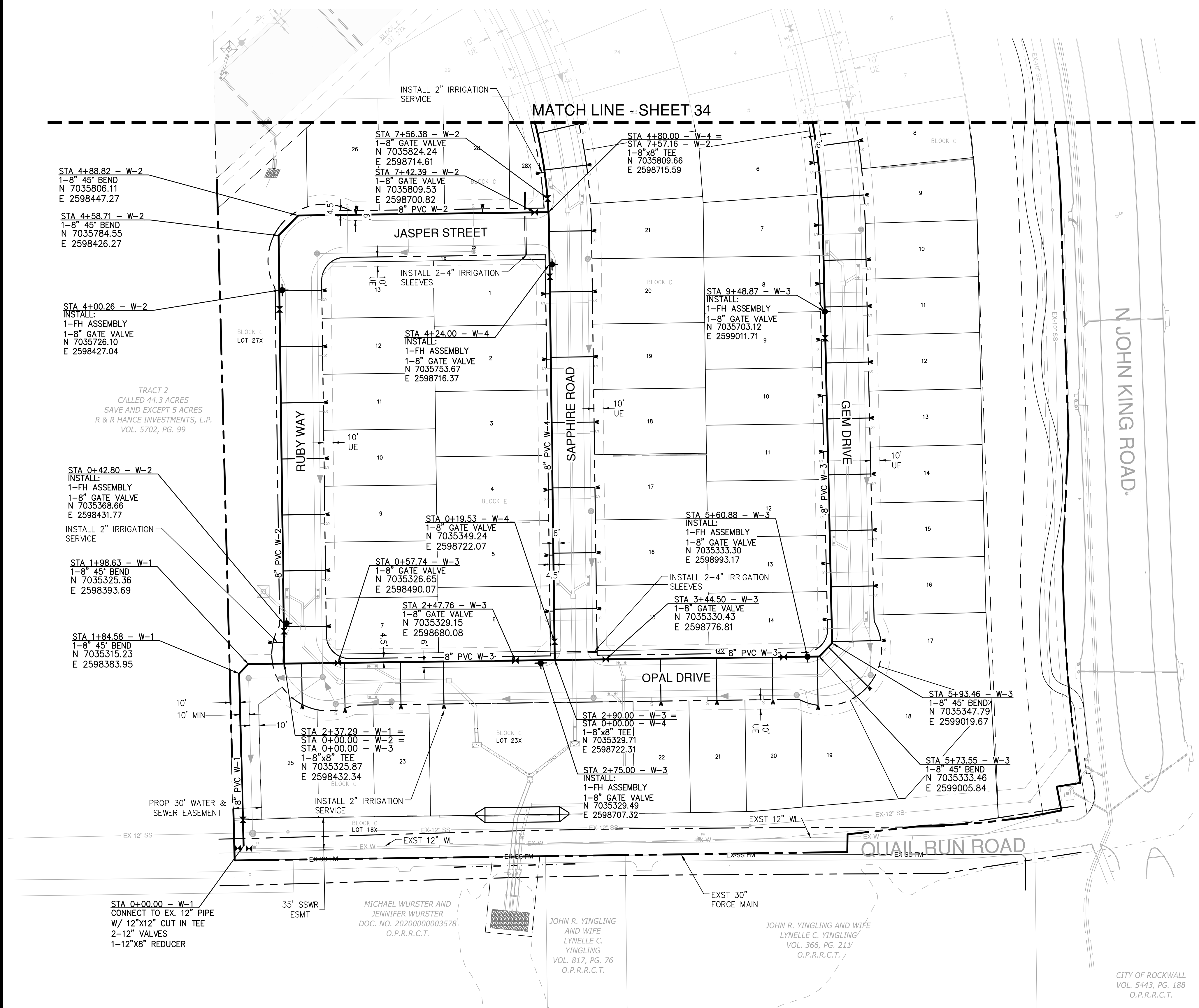
FORT WORTH | SAN ANTONIO | AUSTIN | HOUSTON | DALLAS
 6500 W HWY. STE 700 | FT. WORTH, TX 76102 | 817.870.8868
 TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION #470

GIDEON GROVE - PHASE 2

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

WATER DISTRIBUTION PLAN
 SHEET 2

PLAT NO.	#
JOB NO.	6126300
DATE	June 21
DESIGNER	
CHECKED	DRAWN
SHEET	35



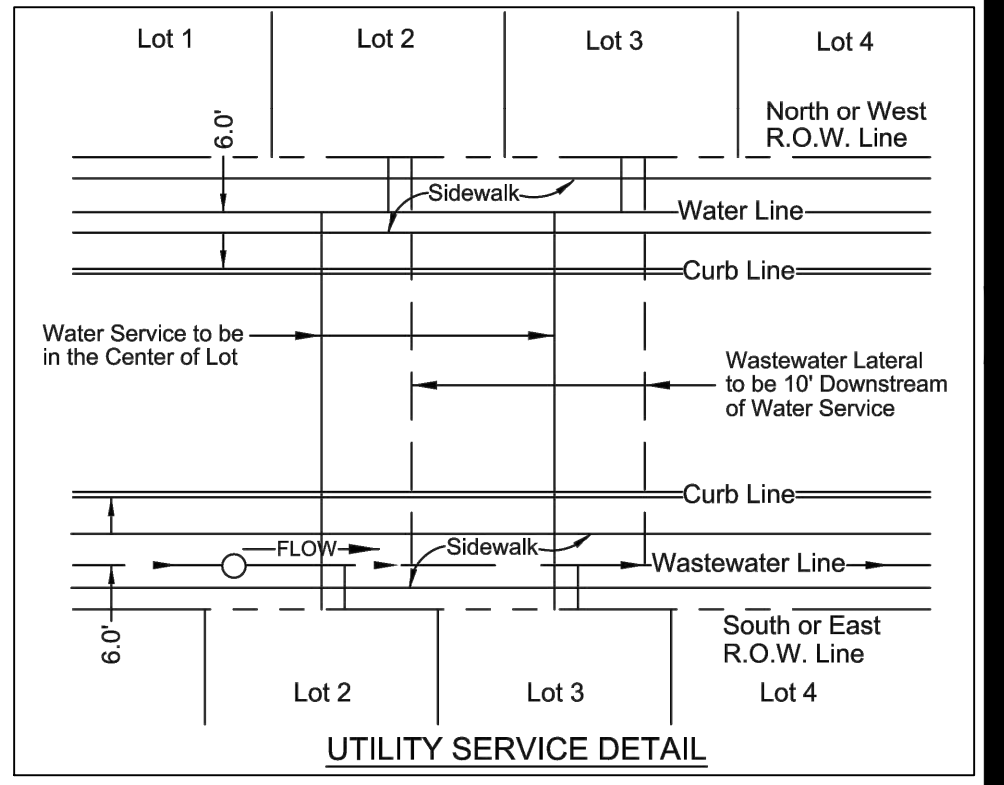
- TCEQ NOTES**
- WHEN A NEW WATERLINE CROSSES UNDER A WASTEWATER MAIN OR LATERAL, THE WATERLINE SHALL BE ENCASED AS DESCRIBED FOR WASTEWATER MAINS OR LATERALS IN CLAUSE (ii) OF THIS SUBPARAGRAPH OR CONSTRUCTED OF A MINIMUM OF 18 LF OF DUCTILE IRON OR STEEL PIPE WITH MECHANICAL OR WELDED JOINTS AS APPROPRIATE, CENTERED AT THE WASTEWATER CROSSING. AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF ONE FOOT BETWEEN THE WATERLINE AND THE WASTEWATER MAIN OR LATERAL SHALL BE PROVIDED. WHEN A NEW WATERLINE CROSSES UNDER A WASTEWATER MAIN, THE PROCEDURES IN §217.53(d) OF THIS TITLE (RELATING TO PIPE DESIGN) MUST BE FOLLOWED.
 - WHERE A NEW POTABLE WATERLINE CROSSES A NEW, NON-PRESSURE RATED WASTEWATER MAIN OR LATERAL AND THE STANDARD PIPE SEGMENT LENGTH OF THE WASTEWATER MAIN OR LATERAL IS AT LEAST 18 FEET, ONE SEGMENT OF THE WATERLINE PIPE SHALL BE CENTERED OVER THE WASTEWATER MAIN OR LATERAL. THE POTABLE WATERLINE SHALL BE AT LEAST TWO FEET ABOVE THE WASTEWATER MAIN OR LATERAL. WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WASTEWATER MAIN OR LATERAL. THE WASTEWATER PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS OF 115 PSI AT 5.0% DEFLECTION. THE WASTEWATER MAIN OR LATERAL SHALL BE EMBEDDED IN CEMENT STABILIZED SAND FOR THE TOTAL LENGTH OF ONE PIPE SEGMENT PLUS 12 INCHES BEYOND THE JOINT ON EACH END. WHERE CEMENT STABILIZED SAND BEDDING IS REQUIRED, THE CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF 10% CEMENT PER CUBIC YARD OF CEMENT STABILIZED SAND MIXTURE, BASED ON LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 BAGS OF CEMENT PER CUBIC YARD OF MIXTURE). THE CEMENT STABILIZED SAND BEDDING SHALL BE A MINIMUM OF SIX INCHES ABOVE AND FOUR INCHES BELOW THE WASTEWATER MAIN OR LATERAL.
 - WHERE A NEW PVC WASTEWATER MAIN OR LATERAL (WITH A MINIMUM PRESSURE RATING OF 150 PSI) CROSSES UNDER AN EXISTING WATER LINE, AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF 6 INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. ONE SEGMENT OF THE SEWER PIPE SHALL BE CENTERED OVER THE WATER LINE SUCH THAT THE JOINTS OF THE SEWER PIPE ARE EQUIDISTANT AND AT LEAST 9 FEET HORIZONTALLY FROM THE CENTERLINE OF THE WATER LINE. WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WATERLINE. THE SANITARY SEWER MAIN SHALL BE EMBEDDED IN FLOWABLE FILL FROM ONE-QUARTER OF THE DIAMETER OF THE SANITARY SEWER MAIN BELOW THE CENTERLINE OF THE PIPE UP TO 12 INCHES ABOVE TOP OF PIPE FOR THE TOTAL LENGTH OF ONE PIPE SEGMENT, MINIMUM 9 FEET IN EACH DIRECTION FROM WATER LINE, PLUS 12 INCHES BEYOND THE JOINT ON EACH END.

BENCHMARKS

BM NO. 1
 X-CUT SET IN CONCRETE LOCATED IN THE CENTER OF A CURB INLET IN THE WEST CURB LINE OF NORTH JOHN KING BOULEVARD AND BEING +/- 662' NORTH 235' SOUTHWEST OF THE NORTHWEST CORNER OF THE SUBJECT TRACT AND +/- 723' SOUTHWEST OF THE N. JOHN KING BOULEVARD AND EAST QUAIL RUN ROAD. ELEV. 546.16'

BM NO. 2
 X-CUT SET IN CONCRETE LOCATED IN THE CENTER OF A CURB INLET IN THE WEST CURB LINE OF NORTH JOHN KING BOULEVARD AND BEING +/- 662' NORTH OF THE INTERSECTION OF N. JOHN KING BOULEVARD AND EAST QUAIL RUN ROAD. ELEV. 530.38'

- WATER LEGEND**
- PROPOSED WATER LINE
 - PROPOSED GATE VALVE
 - PROPOSED FIRE HYDRANT ASSEMBLY
 - PROPOSED SANITARY SEWER LINE
 - PROPOSED SANITARY SEWER MANHOLE
 - PROPOSED STORM DRAIN
 - EXISTING WATER LINE
 - EXISTING GATE VALVE
 - EXISTING FIRE HYDRANT
 - EXISTING SANITARY SEWER LINE
 - EXISTING SANITARY SEWER MANHOLE
 - EXISTING STORM DRAIN
 - WATERLINE CROSSING (SEE NOTE 2)



- NOTES**
- ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND WILL BE CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 - WHERE A NEW POTABLE WATERLINE CROSSES A NEW, NON-PRESSURE RATED WASTEWATER MAIN OR LATERAL AND THE STANDARD PIPE SEGMENT LENGTH OF THE WASTEWATER MAIN OR LATERAL IS AT LEAST 18 FEET, ONE SEGMENT OF THE WATERLINE PIPE SHALL BE CENTERED OVER THE WASTEWATER MAIN OR LATERAL. THE POTABLE WATERLINE SHALL BE AT LEAST TWO FEET ABOVE THE WASTEWATER MAIN OR LATERAL. WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WASTEWATER MAIN OR LATERAL. THE WASTEWATER PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS OF 115 PSI AT 5.0% DEFLECTION. THE WASTEWATER MAIN OR LATERAL SHALL BE EMBEDDED IN CEMENT STABILIZED SAND FOR THE TOTAL LENGTH OF ONE PIPE SEGMENT PLUS 12 INCHES BEYOND THE JOINT ON EACH END. WHERE CEMENT STABILIZED SAND BEDDING IS REQUIRED, THE CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF 10% CEMENT PER CUBIC YARD OF CEMENT STABILIZED SAND MIXTURE, BASED ON LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 BAGS OF CEMENT PER CUBIC YARD OF MIXTURE). THE CEMENT STABILIZED SAND BEDDING SHALL BE A MINIMUM OF SIX INCHES ABOVE AND FOUR INCHES BELOW THE WASTEWATER MAIN OR LATERAL.
 - WHERE A NEW PVC WASTEWATER MAIN OR LATERAL (WITH A MINIMUM PRESSURE RATING OF 150 PSI) CROSSES UNDER AN EXISTING WATER LINE, AN ABSOLUTE MINIMUM SEPARATION DISTANCE OF 6 INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. ONE SEGMENT OF THE SEWER PIPE SHALL BE CENTERED OVER THE WATER LINE SUCH THAT THE JOINTS OF THE SEWER PIPE ARE EQUIDISTANT AND AT LEAST 9 FEET HORIZONTALLY FROM THE CENTERLINE OF THE WATER LINE. WHENEVER POSSIBLE, THE CROSSING SHALL BE CENTERED BETWEEN THE JOINTS OF THE WATERLINE. THE SANITARY SEWER MAIN SHALL BE EMBEDDED IN FLOWABLE FILL FROM ONE-QUARTER OF THE DIAMETER OF THE SANITARY SEWER MAIN BELOW THE CENTERLINE OF THE PIPE UP TO 12 INCHES ABOVE TOP OF PIPE FOR THE TOTAL LENGTH OF ONE PIPE SEGMENT, MINIMUM 9 FEET IN EACH DIRECTION FROM WATER LINE, PLUS 12 INCHES BEYOND THE JOINT ON EACH END.
 - FIRE HYDRANT ASSEMBLY TO INCLUDE 1-8"x6" TEE, 1-6" 90° HORIZONTAL BEND, 1-6" VALVE, AND 1-FIRE HYDRANT.

UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF THE UTILITY INFORMATION ON THE PLANS. THE CONTRACTOR SHALL CONTACT A UTILITY LOCATING SERVICE 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND OF ALL EXISTING UTILITIES AND DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.

RESPONSIBILITY NOTE

ALL RESPONSIBILITY FOR THE ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY OF DESIGN.

RECORD DRAWING

THESE RECORD DRAWINGS ARE BASED ON AS-BUILT DOCUMENTS PROVIDED BY THE CONTRACTOR OR DEVELOPER. FIELD INSPECTION OF CONSTRUCTION, IF REQUIRED FOR COMPLIANCE WITH CERTAIN REGULATORY STANDARDS, WAS NOT PERFORMED BY THE DESIGN ENGINEER. IT IS NOT GUARANTEED THAT THIS DOCUMENT REPRESENTS "AS-BUILT CONDITIONS."

03/22/2022

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