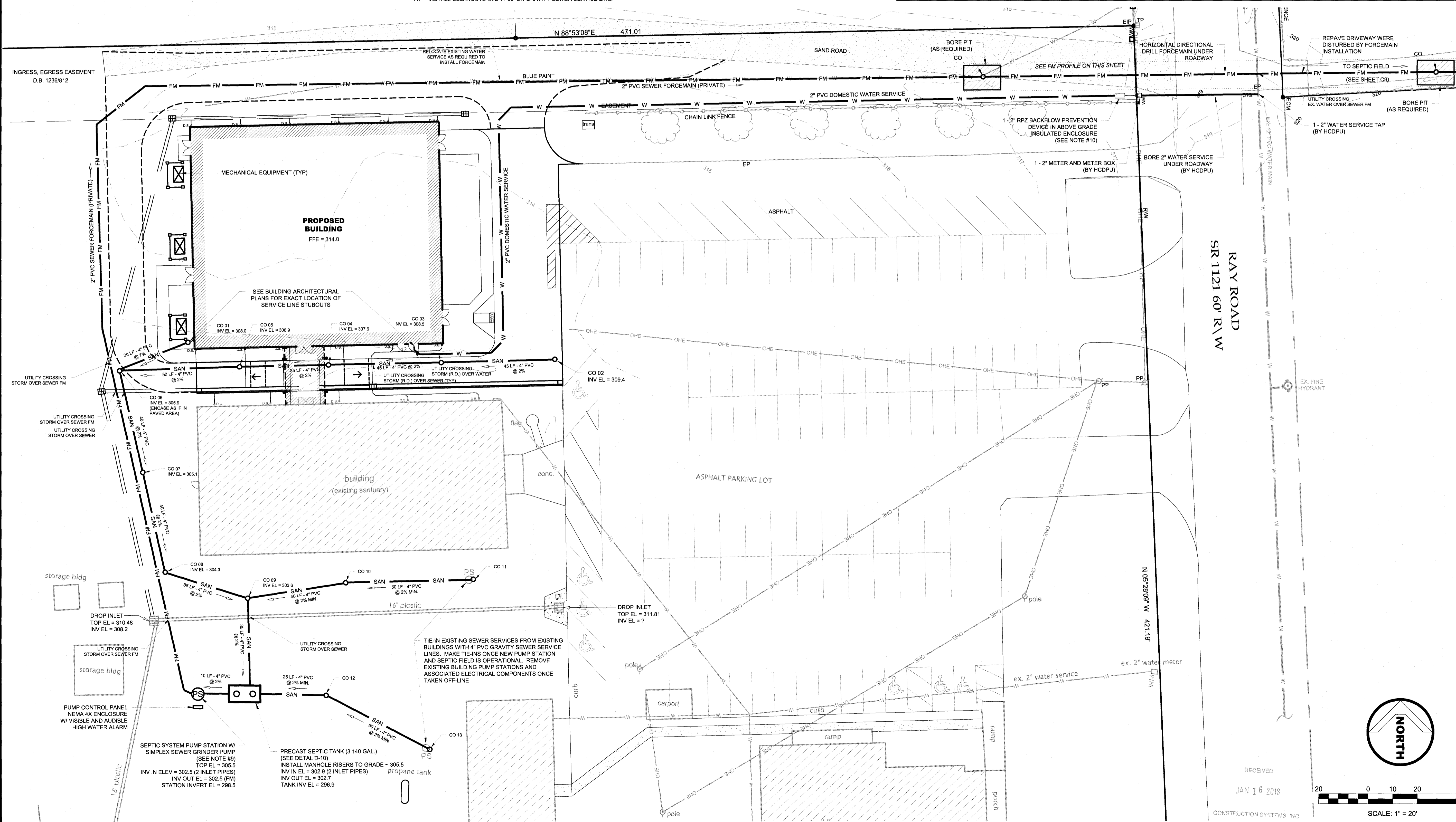
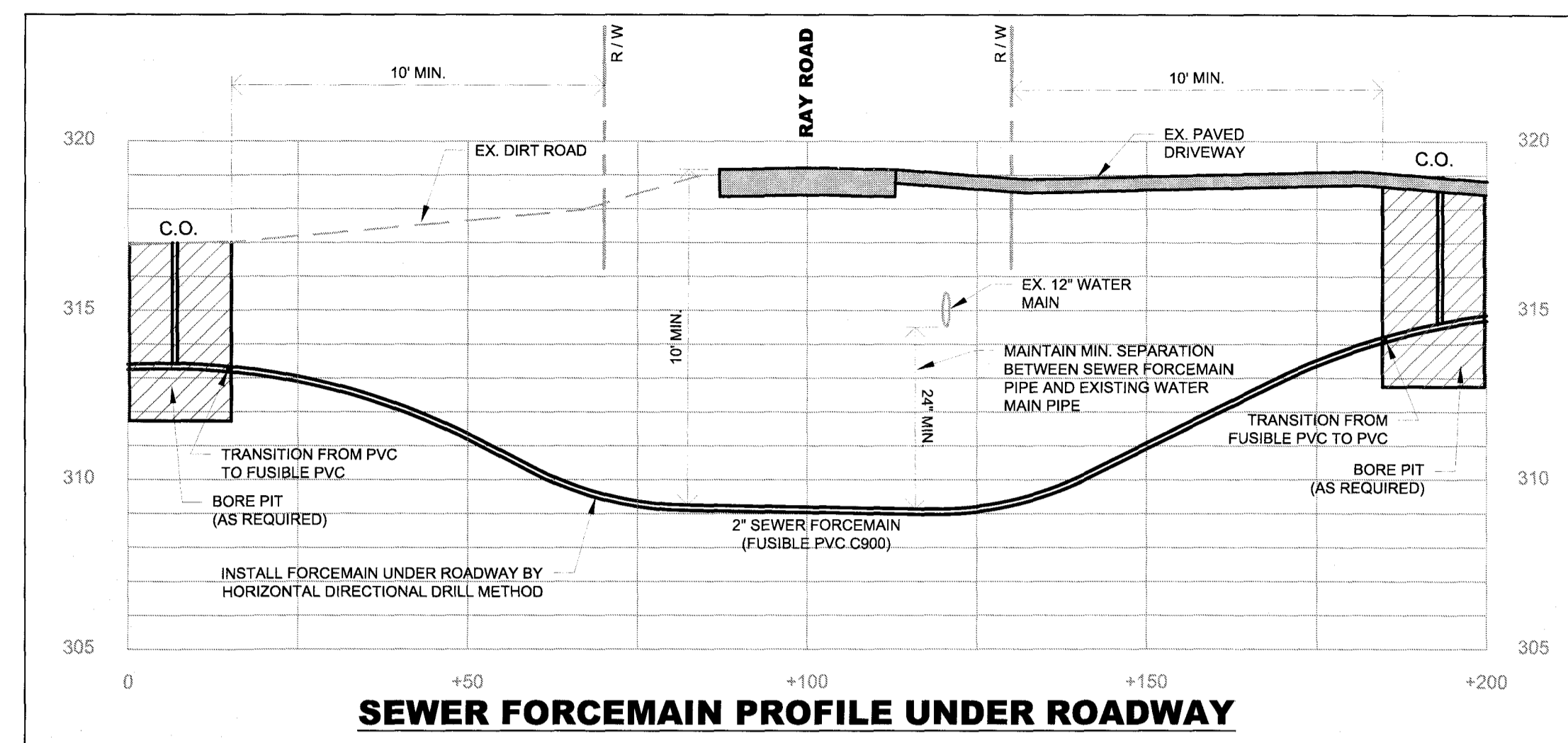


**NOTES**

- THIS SITE USES A PRIVATE SANITARY SEWER SYSTEM. THE EXISTING SEPTIC FIELD WILL BE ABANDONED AND A NEW SEPTIC FIELD WILL BE INSTALLED ON THE CHURCH PROPERTY ACROSS RAY ROAD (CEMETERY). THE OWNER TO SECURE HEALTH DEPARTMENT PERMIT PRIOR TO ABANDONING THE EXISTING SEPTIC FIELD. A NEW SIMPLEX GRINDER PUMP STATION AND 2" FORCE MAIN WILL BE INSTALLED TO CONVEY ALL WASTEWATER FROM THIS PROPERTY TO THE SEPTIC FIELD AT THE CEMETERY.
- THE WATER LINES, FIRE HYDRANTS, SERVICE LINES, METER SETTERS AND ALL ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE HARNETT COUNTY DEPARTMENT OF PUBLIC UTILITIES (HCDPU). SEE STANDARD NOTES ON SHEET C8.
- REFER TO ARCHITECTURAL PLAN FOR EXACT LOCATION OF BUILDING SERVICE TIE-IN POINTS.
- THE PROPOSED 2" WATER TAP, 2" WATER SERVICE (BETWEEN TAP AND WATER METER), AND 2" WATER METER TO BE INSTALLED BY HCDPU.
- AN NCDOT ENCROACHMENT AGREEMENT MUST BE OBTAINED PRIOR TO INSTALLING THE PRIVATE SEWER FORCEMAIN ACROSS THE RAY ROAD RIGHT-OF-WAY.
- THE NEW SEPTIC SYSTEM PUMP STATION AND NEW SEPTIC FIELD AT THE CEMETERY PROPERTY SHALL BE COMPLETELY INSTALLED AND OPERATIONAL PRIOR TO ABANDONING THE EXISTING SEPTIC SYSTEM. SEE SEPTIC SYSTEM DRAIN FIELD PLAN (SHEET C9) FOR DRAIN FIELD LOCATION AND DESIGN.
- THERE IS AN EXISTING FIRE HYDRANT IN FRONT OF THE SITE WITHIN THE RAY ROAD RW. THE LOCATION OF THIS HYDRANT IS SHOWN ON THE PLAN.
- ESTIMATED WATER DEMAND FOR THE PROPOSED BUILDING IS 2,000 GPD (400 SEATS X 5 GAL/SEAT).
- THE SEPTIC SYSTEM PUMP STATION TO BE A LIBERTY 2484LGS SIMPLEX GRINDER PACKAGE, OR EQUAL, CAPABLE OF PUMPING 30 GPM AGAINST 45' TOTAL DYNAMIC HEAD (TDH). THE ELECTRICAL SERVICE TO BE 3-PHASE 208-VOLT. SEE DETAIL B-10 FOR PUMP STATION SECTION.
- THE PROPOSED RPZ BACKFLOW PREVENTION ON THE NEW WATER SERVICE SHALL BE A 2" WATTS LF909, OR EQUAL. ANY CHANGE TO THE MAKE AND/OR MODEL SHALL BE APPROVED BY HCDPU PRIOR TO INSTALLATION.
- INSTALL CLEANOUTS EVERY 50' ON GRAVITY SEWER SERVICE LINE.



J Thomas Engineering, Inc.  
civil engineering • planning  
143 Charlotte Avenue, Suite 104  
Sanford, North Carolina 27330  
(919) 777-6010 phone  
www.jthomasengineering.com  
license no. C-3389



PROFESSIONAL ENGINEER'S SEAL

**GOURD SPRINGS CHURCH  
NEW BUILDING ADDITION**  
4575 RAY ROAD  
HARNETT COUNTY, NORTH CAROLINA

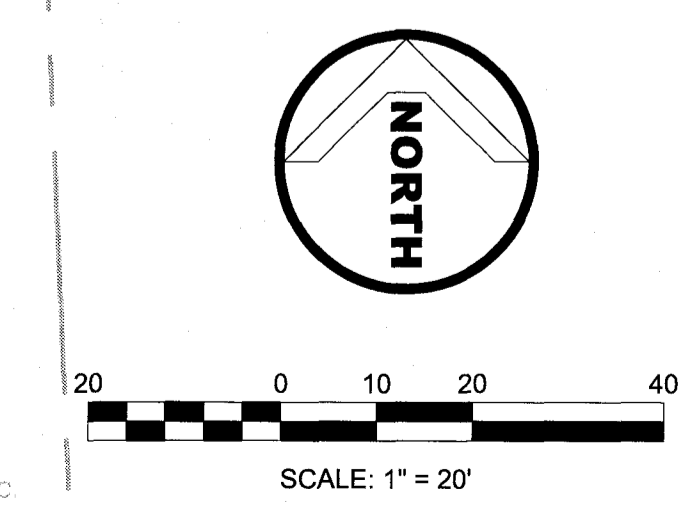
UTILITY PLAN

**REVISIONS**

15 DEC 2017:	REVISIONS BASED ON OWNER CHANGES AND COUNTY DRB COMMENTS.
29 DEC 2017:	REVISED TO INCLUDE RPZ MAKE AND MODEL
12 JAN 2018:	ADDED SEPTIC SYSTEM DESIGN, SHEETS C9 AND C10.

**AGENCY REVIEW ONLY**

Scale: SEE SCALE BAR	Drawn by: JRT
Sheet:	Designed by: JRT
<b>C6 of 10</b>	Reviewed by: JRT
Project Number: 17-020	Date: 01 NOV 2017



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