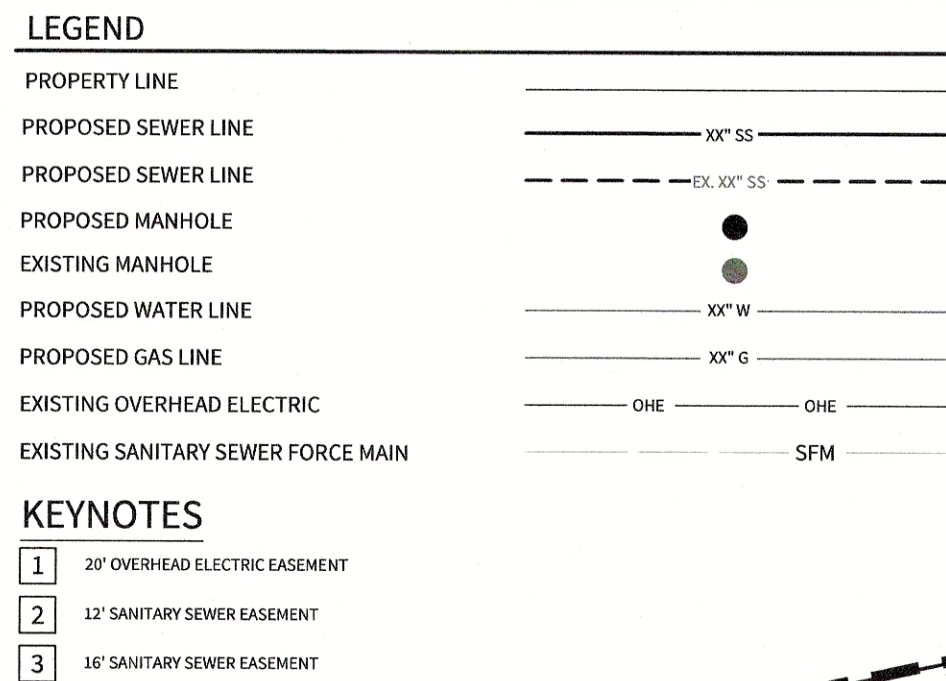
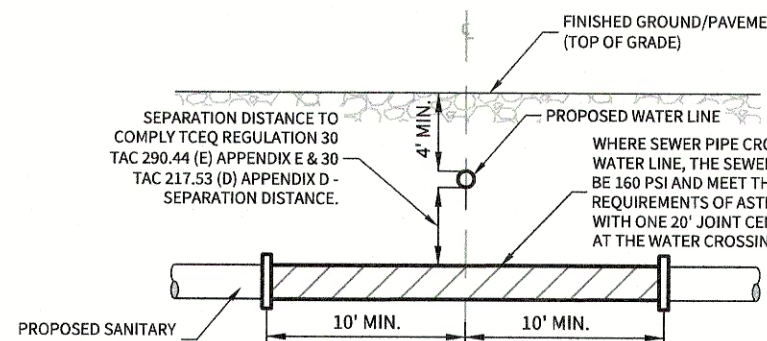




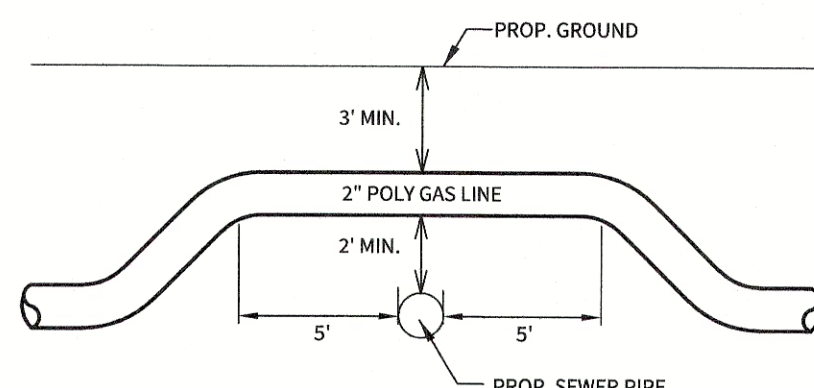
BENCHMARK **BM-1**
BENCHMARK TO BE SET BY ENGINEER PRIOR TO CONSTRUCTION.

SEWER/WATER LINE CROSSINGS	
LINE	STATION
"A"	16+91.32
"A"	25+68.45
"A"	28+59.43
"A"	29+40.35
"A"	31+30.65
"A"	36+13.77
"A"	46+69.10
"A"	49+18.05
"C"	03+55.00
"F"	08+73.49
"I"	02+49.36
"I"	06+46.26
"I"	06+92.75
"I"	14+37.57
"J"	1+22.98
"K"	2+23.64

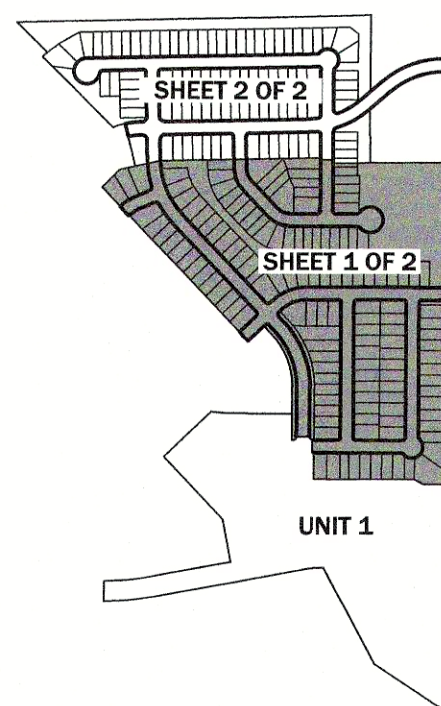
SEWER/GAS LINE CROSSINGS	
"A"	31+75.32
"A"	36+13.77
"E"	01+21.00
"F"	01+23.91
"F"	09+21.64
"H"	01+25.00



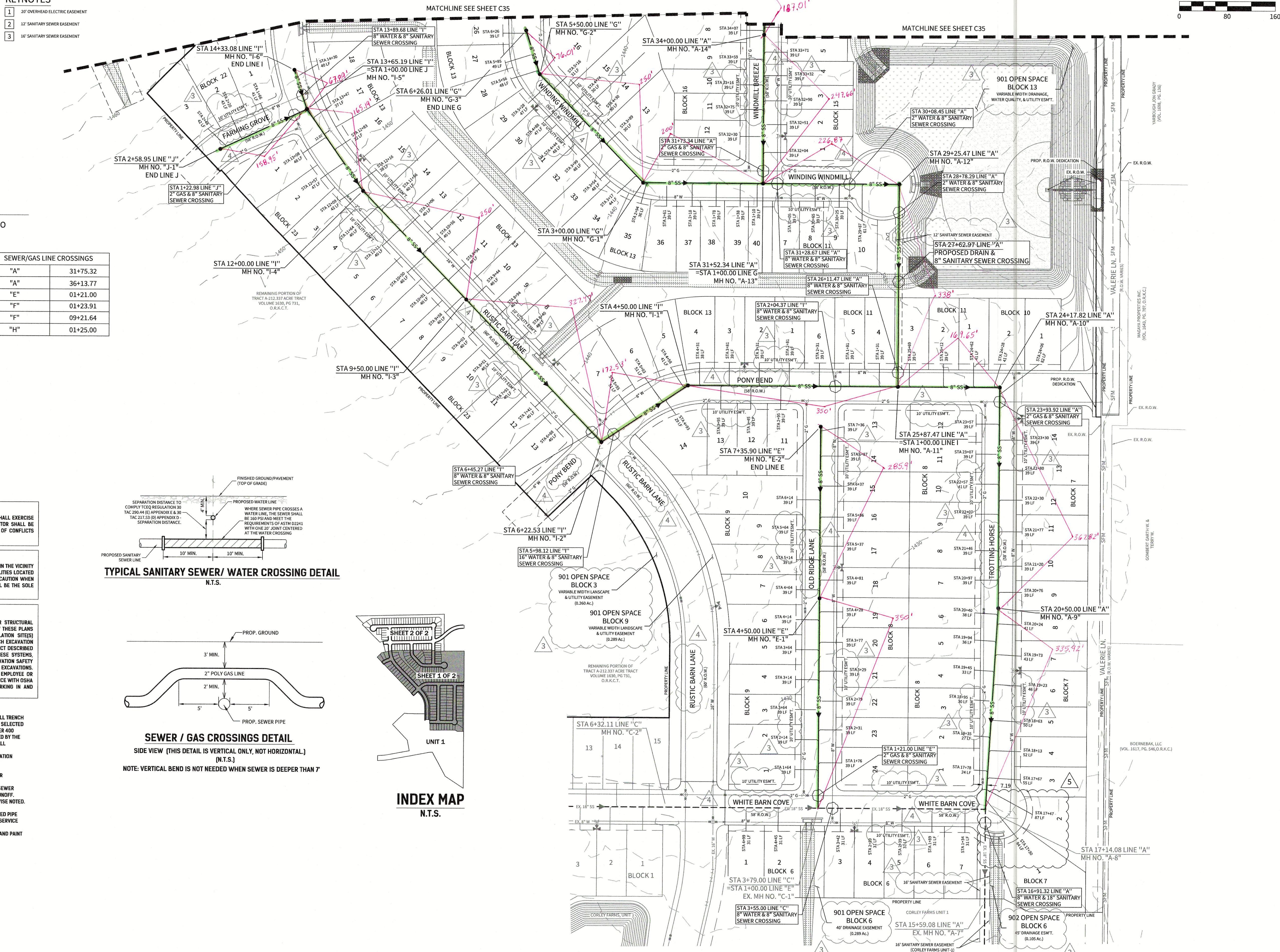
TYPICAL SANITARY SEWER/ WATER CROSSING DETAIL
N.T.S.



SEWER / GAS CROSSINGS DETAIL
SIDE VIEW (THIS DETAIL IS VERTICAL ONLY, NOT HORIZONTAL.)
(N.T.S.)
NOTE: VERTICAL BEND IS NOT NEEDED WHEN SEWER IS DEEPER THAN 7'



INDEX MAP
N.T.S.



CORLEY FARMS
UNIT 2

DATE
09/21/2022

PROJECT NO.
03481.005

DRAWN BY
C3

CHECKED BY
XV/JC/DDC

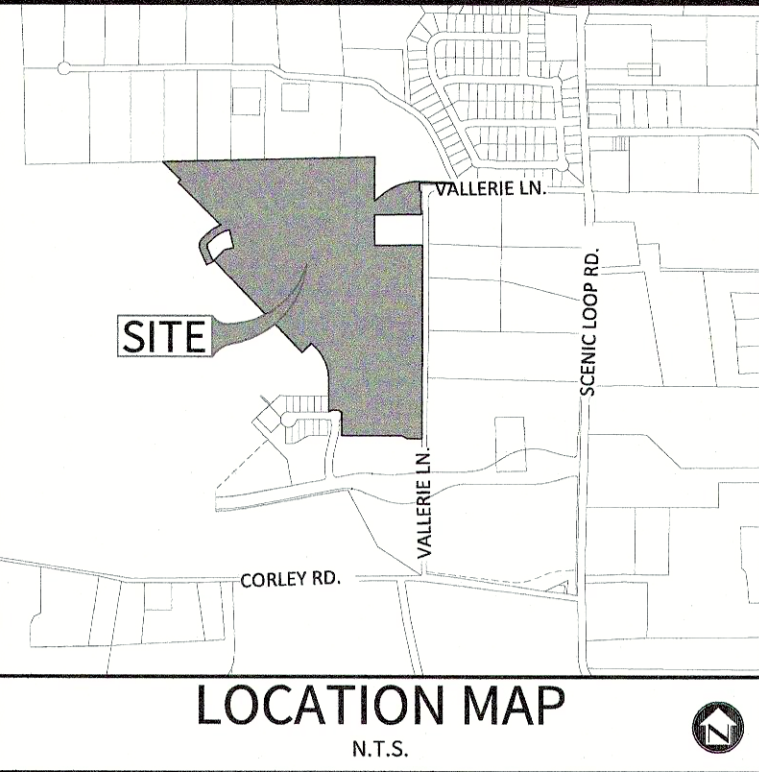
REVISIONS

- 1.
- 2.
3. 2021-10-07 - CITY OF BOERNE COMMENT
4. 2021-11-12 - ADDED STREET NAMES
5. 2022-09-21 - REVISED SEWER
LATERALS ON LOTS 1 & 2 BLOCK 7
- 6.
- 7.
- 8.
- 9.

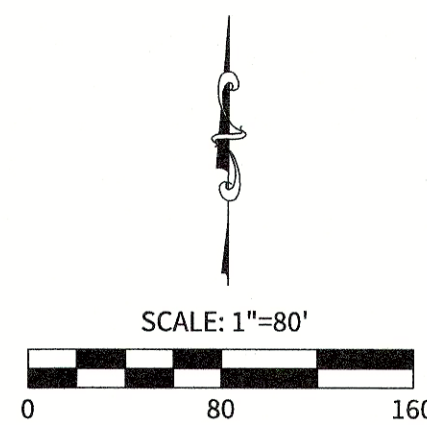
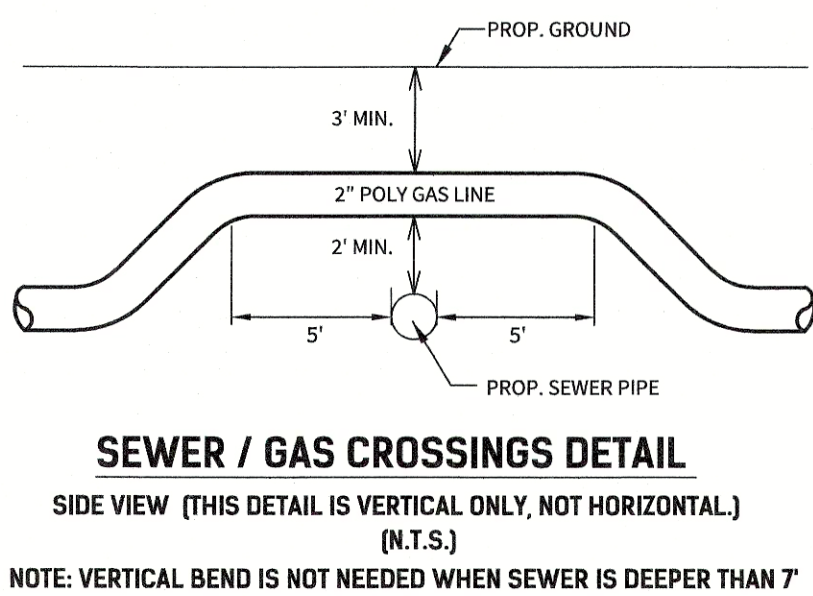
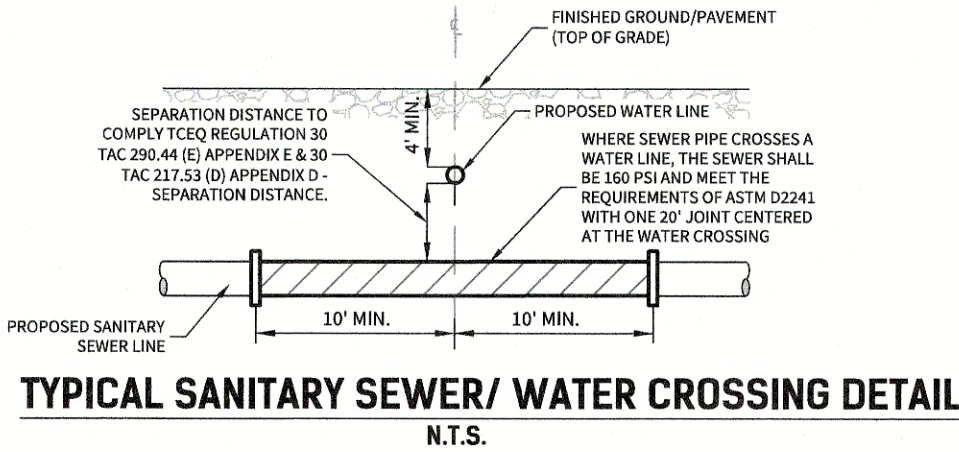
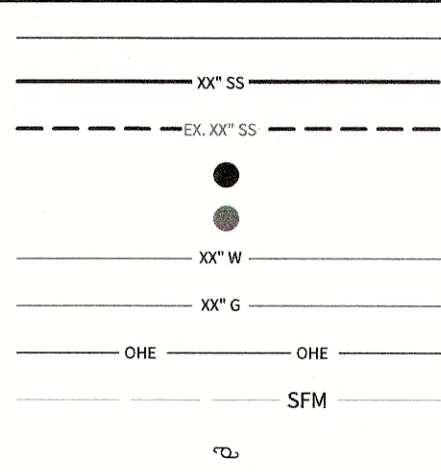


C34

© 2023 M.W. CUDE ENGINEERS LLC - THIS DOCUMENT, ANY PORTION THEREOF, AND ANY ASSOCIATED COPYRIGHTS SHALL REMAIN THE PROPERTY OF M.W. CUDE ENGINEERS LLC. THIS DOCUMENT MAY NOT BE REPRODUCED, USED, OR DISTRIBUTED IN ANY FORM OR BY ANY MEANS TO ANYONE WITHOUT THE WRITTEN CONSENT OF M.W. CUDE ENGINEERS LLC. THIS DOCUMENT IS NOT INTENDED TO BE SUITABLE FOR USE OTHER THAN AS ORIGINALLY INTENDED BY M.W. CUDE ENGINEERS LLC AND ANY UNAUTHORIZED REPRODUCTION, USE OR DISTRIBUTION OF THIS DOCUMENT WILL BE THE RESPONSIBILITY OF THE USER. ANY PARTIES TO THE PROJECT SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED HEREIN. ANY DISCREPANCIES SHALL BE THE RESPONSIBILITY OF THE USER. ANY UNAUTHORIZED REPRODUCTION, USE OR DISTRIBUTION OF THIS DOCUMENT WILL BE THE RESPONSIBILITY OF THE USER.



- LEGEND**
- PROPERTY LINE
 - PROPOSED SEWER LINE
 - PROPOSED MANHOLE
 - EXISTING MANHOLE
 - PROPOSED WATER LINE
 - PROPOSED GAS LINE
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING SANITARY SEWER FORCE MAIN
 - EXISTING POWER POLE
 - KEYNOTES**
 - 1 20' OVERHEAD ELECTRIC EASEMENT
 - 2 12' SANITARY SEWER EASEMENT
 - 3 16' SANITARY SEWER EASEMENT



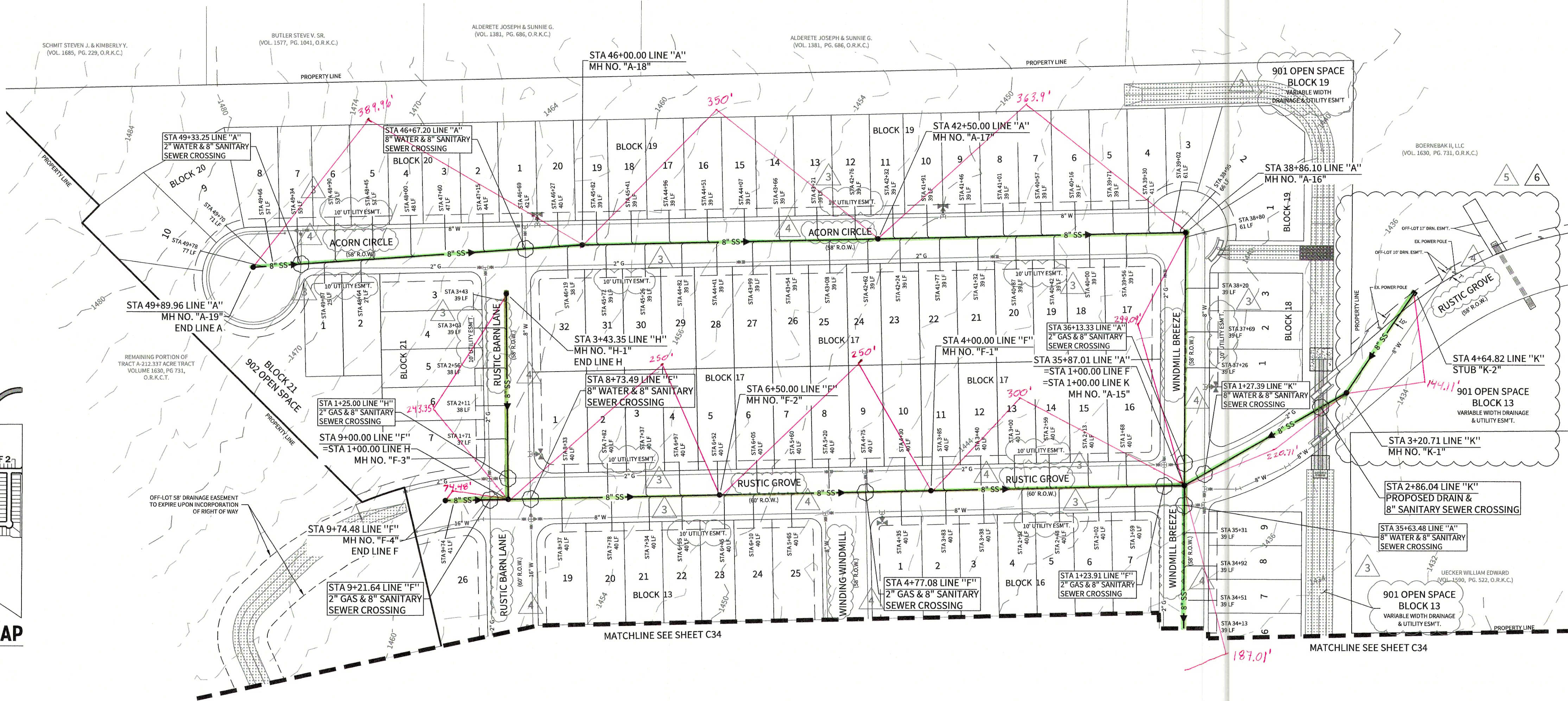
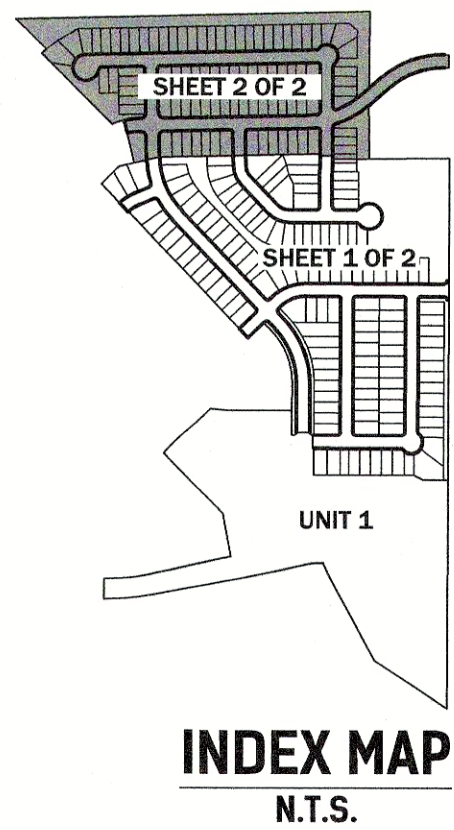
OWNER/DEVELOPER:
PULTE HOMES OF TEXAS, L.P.
CONTACT PERSON: FELIPE GONZALEZ
1718 DRY CREEK WAY, SUITE 120
SAN ANTONIO, TX 78259
TEL: (210) 496-1985
FAX: (210) 496-0449

CIVIL ENGINEER:
M.W. CUDE ENGINEERS, L.L.C.
CONTACT PERSON: DAVID D. CUPIT II, P.E.
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TX 78231
TEL: (210) 681-2951
FAX: (210) 523-7112

BENCHMARK BM-1
BENCHMARK TO BE SET BY ENGINEER PRIOR TO CONSTRUCTION.

SEWER/WATER LINE CROSSINGS	
LINE	STATION
"A"	16+91.32
"A"	26+16.47
"A"	28+78.28
"A"	30+08.45
"A"	31+28.67
"A"	35+63.48
"A"	46+67.12
"A"	49+16.07
"C"	03+55.00
"E"	08+73.49
"I"	02+04.37
"I"	06+22.53
"I"	06+45.27
"I"	13+89.68
"J"	1+22.98
"K"	2+27.39

SEWER/GAS LINE CROSSINGS	
"A"	31+75.32
"A"	36+13.77
"E"	01+21.00
"F"	01+23.91
"F"	09+21.64
"H"	01+25.00



CAUTION!!
EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER IF CONFLICT IS FOUND.

CAUTION!!
THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD ELECTRIC LINES EXIST WITHIN THE VICINITY OF THE SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THESE UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THIS AREA. ANY DAMAGE DONE TO THESE EXISTING FACILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.

TRENCH EXCAVATION PROTECTION
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

- NOTES:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 95% COMPACTION ON ALL TRENCH BACKFILL. COMPACTION TEST WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE DISTRICT INSPECTOR. PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY THE DISTRICT WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
 2. ALL SANITARY SEWER PIPE SHALL BE SDR-26 PVC PIPE MEETING ASTM SPECIFICATION D-3034.
 3. MANHOLE OPENING INCREASED TO 30" AS PER TAC CHAPTER 217.55.
 4. REFERENCE STREET DETAIL SHEET AND GEOTECHNICAL ENGINEERING REPORT FOR PAVEMENT DESIGN INFORMATION.
 5. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UPGRADIENT SIDE OF THE SEWER TRENCH THUS ALLOWING THE TRENCH TO INTERCEPT ANY SILT CONTAMINATED RUNOFF.
 6. ALL LATERALS SHALL BE INSTALLED AT A MINIMUM 2.0% SLOPE UNLESS OTHERWISE NOTED.
 7. BENCHMARK TO BE SET BY ENGINEER PRIOR TO THE START OF CONSTRUCTION.
 8. ALL SEWER LATERALS TO BE INSTALLED WITH A MINIMUM 150 PSI PRESSURE RATED PIPE AND EMBEDDED IN CEMENT STABILIZED SAND AT ALL WATER MAIN AND LATERAL SERVICE CROSSINGS PER 30 TAC CHAPTER 290.44(a).
 9. CONTRACTOR TO INSTALL A 2" X 4" LUMBER ON EACH SEWER LATERAL LOCATION AND PAINT IT IN GREEN.

CORLEY FARMS UNIT 2
OVERALL SANITARY SEWER PLAN

DATE
11/10/2022

PROJECT NO.
03481.005

DRAWN BY
C3

CHECKED BY
XV/JC/DDC

- REVISIONS**
- 1.
 - 2.
 3. 2021-10-07 - CITY OF BOERNE COMMENTS
 4. 2021-11-12 - ADDED STREET NAMES
 5. 2022-03-31 - SANITARY SEWER MAIN EXTENSION
 6. 2022-11-01 - REVISED SANITARY SEWER MAIN EXTENSION
 - 7.
 - 8.
 - 9.

STATE OF TEXAS
JAVIER CASTELLO
PROFESSIONAL ENGINEER
11/11/2022
CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C35