

STREET AND DRAINAGE CONSTRUCTION PLANS

- C0 - CITY OF BOERNE GENERAL NOTES
- C1 - ULTIMATE MASTER DRAINAGE PLAN
- C2 - ULTIMATE MASTER DRAINAGE PLAN - RATIONAL METHOD CALCULATIONS
- C3 - SCENIC LOOP IMPROVEMENTS
- C4 - SCENIC LOOP IMPROVEMENTS
- C5 - SCENIC LOOP IMPROVEMENTS STRIPING PLAN
- C6 - STREET PLAN & PROFILE - HOMESTEAD RIDGE - LEFT
- C7 - STREET PLAN & PROFILE - HOMESTEAD RIDGE - LEFT
- C8 - STREET PLAN & PROFILE - HOMESTEAD RIDGE - RIGHT
- C9 - STREET PLAN & PROFILE - HOMESTEAD RIDGE - RIGHT
- C10 - STREET PLAN & PROFILE - HOMESTEAD RIDGE
- C11 - STREET PLAN & PROFILE - RUSTIC BARN LANE
- C12 - STREET PLAN & PROFILE - WHITE BARN COVE
- C13 - CITY OF BOERNE STANDARD STREET DETAILS
- C14 - TRAFFIC SIGNAGE AND STRIPING PLAN
- C15 - TRAFFIC SIGNAGE AND STRIPING PLAN
- C16 - TXDOT PAVEMENT MARKING DETAILS
- C17 - TURN LANE PLAN
- C18 - TURN LANE PLAN
- C19 - TURN LANE PLAN
- C20 - TURN LANE PLAN
- C20A - TURN LANE PLAN
- C21 - DRAIN "A" PLAN AND PROFILE
- C22 - DRAIN "G" PLAN AND PROFILE
- C23 - DRAIN "C" PLAN AND PROFILE
- C24 - DRAIN "B" & "D" PLAN AND PROFILE
- C25 - DRAIN "E" PLAN AND PROFILE
- C26 - DRAIN "F" PLAN AND PROFILE
- C27 - DRAIN "H" & "I" PLAN AND PROFILE
- C28 - DRAIN "J" PLAN AND PROFILE
- C29 - SIDEWALK BOX DRAIN PLAN AND PROFILE
- C30 - SIDEWALK BOX DRAIN PLAN AND PROFILE
- C31 - TXDOT PRECAST 3'4'65" CULVERT BOXES & COB CONC. RIP-RAP DETAILS
- C31A - CURB INLET DETAILS
- C32 - TXDOT FLARED WING DETAIL
- C33 - TXDOT PARALLEL WING DETAIL
- C34 - TXDOT SAFETY END TREATMENT DETAILS
- C35 - SINGLE BOX CULVERTS CAST-IN-PLACE DETAIL
- C36 - TXDOT SAFETY END TREATMENT PARALLEL DRAINAGE 12" TO 72"
- C37 - TXDOT CONCRETE HEADWALLS NON-SKEWED DETAIL
- C38 - BATCH DETENTION POND "SOUTHWEST POND"
- C39 - BATCH DETENTION POND "SOUTHWEST POND"
- C40 - BATCH DETENTION POND "SOUTHWEST POND"
- C41 - BATCH DETENTION POND "SOUTHWEST POND"
- C42 - BATCH DETENTION POND PLAN "SOUTHEAST POND"
- C43A - BATCH DETENTION POND PLAN "SOUTHEAST POND"

SEWER DISTRIBUTION CONSTRUCTION PLANS

- C44 - OVERALL SANITARY SEWER PLAN
- C44A - OVERALL SANITARY SEWER PLAN
- C45 - SANITARY SEWER GENERAL NOTES
- C46 - SANITARY SEWER PLAN & PROFILE LINE "A"
- C47 - SANITARY SEWER PLAN & PROFILE LINE "A"
- C48 - SANITARY SEWER PLAN & PROFILE LINE "B" & "D"
- C49 - SANITARY SEWER PLAN & PROFILE LINE "C"
- C49A - SANITARY SEWER PLAN & PROFILE LINE "E"
- C49B - SANITARY SEWER PLAN & PROFILE LINE "E"
- C50 - SANITARY SEWER STANDARD DETAILS

WATER DISTRIBUTION CONSTRUCTION PLANS

- C51 - WATER LINE A - PLAN & PROFILE
- C52 - WATER LINE A - PLAN & PROFILE
- C53 - WATER DISTRIBUTION PLAN
- C54 - WATER DISTRIBUTION PLAN
- C54A - WATER DISTRIBUTION PLAN

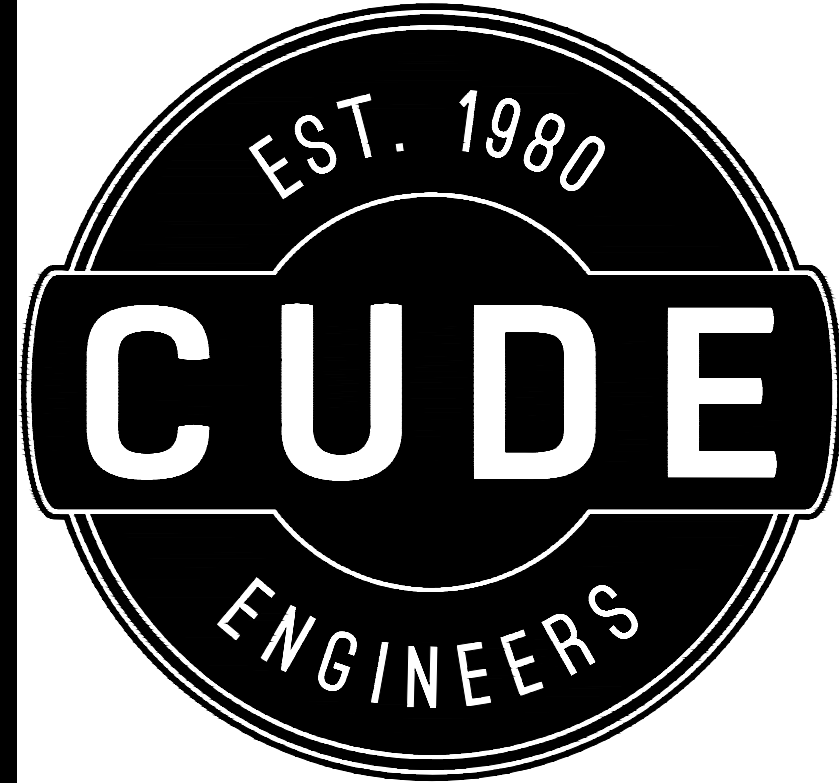
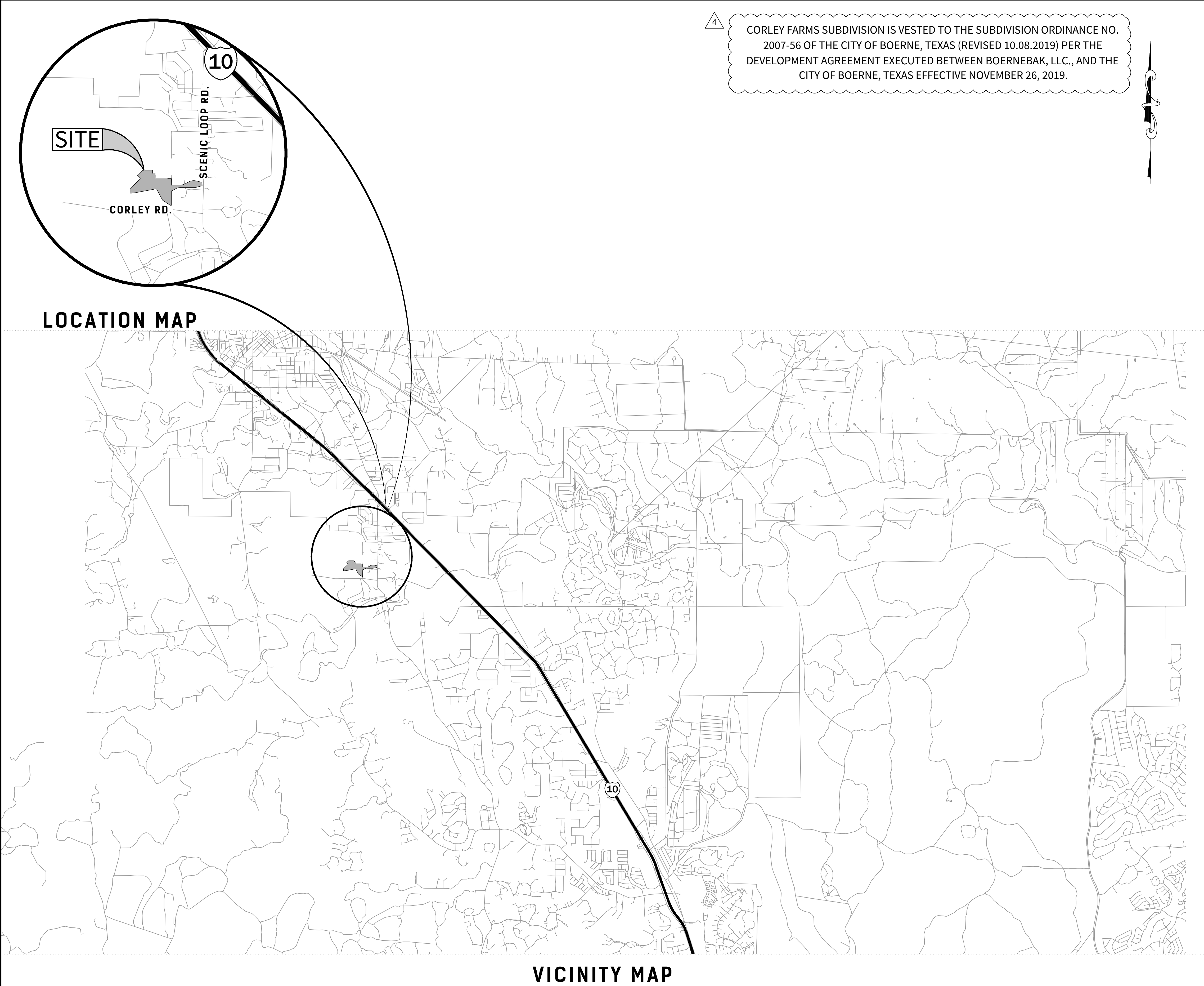
GAS DISTRIBUTION CONSTRUCTION PLANS

- C55 - GAS DISTRIBUTION PLAN
- C56 - GAS DISTRIBUTION PLAN
- C57 - CITY OF BOERNE GAS DISTRIBUTION PLAN NOTES & DETAILS

MISCELLANEOUS CONSTRUCTION PLANS

- C58 - UTILITY LAYOUT PLAN
- C59 - UTILITY LAYOUT PLAN
- C60 - UTILITY LAYOUT PLAN
- C60A - UTILITY LAYOUT PLAN
- C61 - STORM WATER POLLUTION PREVENTION PLAN
- C62 - STORM WATER POLLUTION PREVENTION PLAN
- C63 - STORM WATER POLLUTION PREVENTION PLAN
- C64 - STORM WATER POLLUTION PREVENTION PLAN
- C64A - STORM WATER POLLUTION PREVENTION PLAN

* STANDARD DETAILS ADOPTED FOR THIS CONSTRUCTION SET.



CORLEY FARMS
UNIT 1

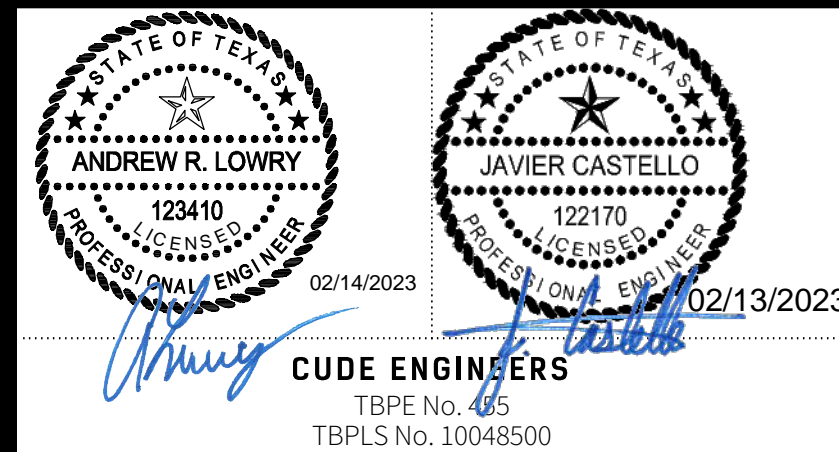
CONSTRUCTION PLANS



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




4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F: (210) 523.7112

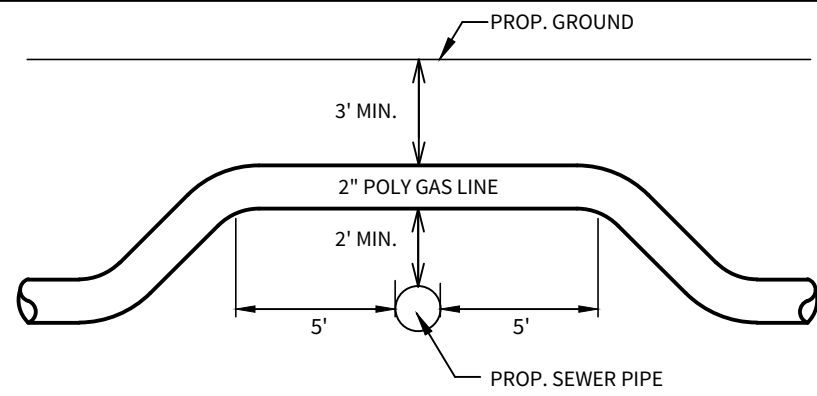
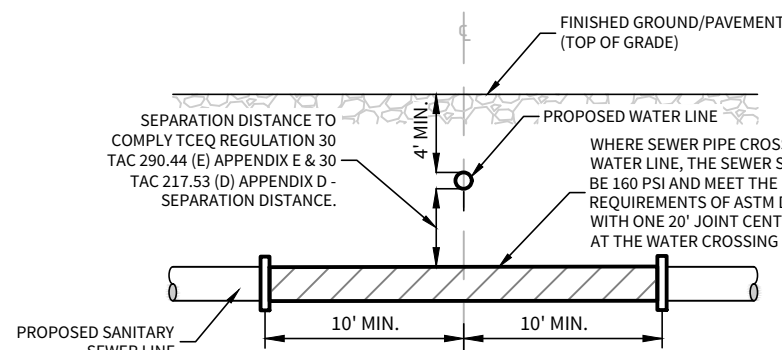
DRAWN BY	DATE
C3	02/13/2023
CHECKED BY	PROJECT NO.
JC/DDC	03481.000





LEGEND

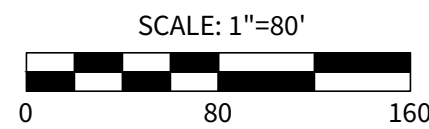
PROPERTY LINE	
PROPOSED SEWER LINE	 "X" SS
PROPOSED MANHOLE	
PROPOSED WATER LINE	"X" W
PROPOSED GAS LINE	"X" G
EXISTING OVERHEAD ELECTRIC	OHE OHE
EXISTING SANITARY SEWER FORCE MAIN	SFM



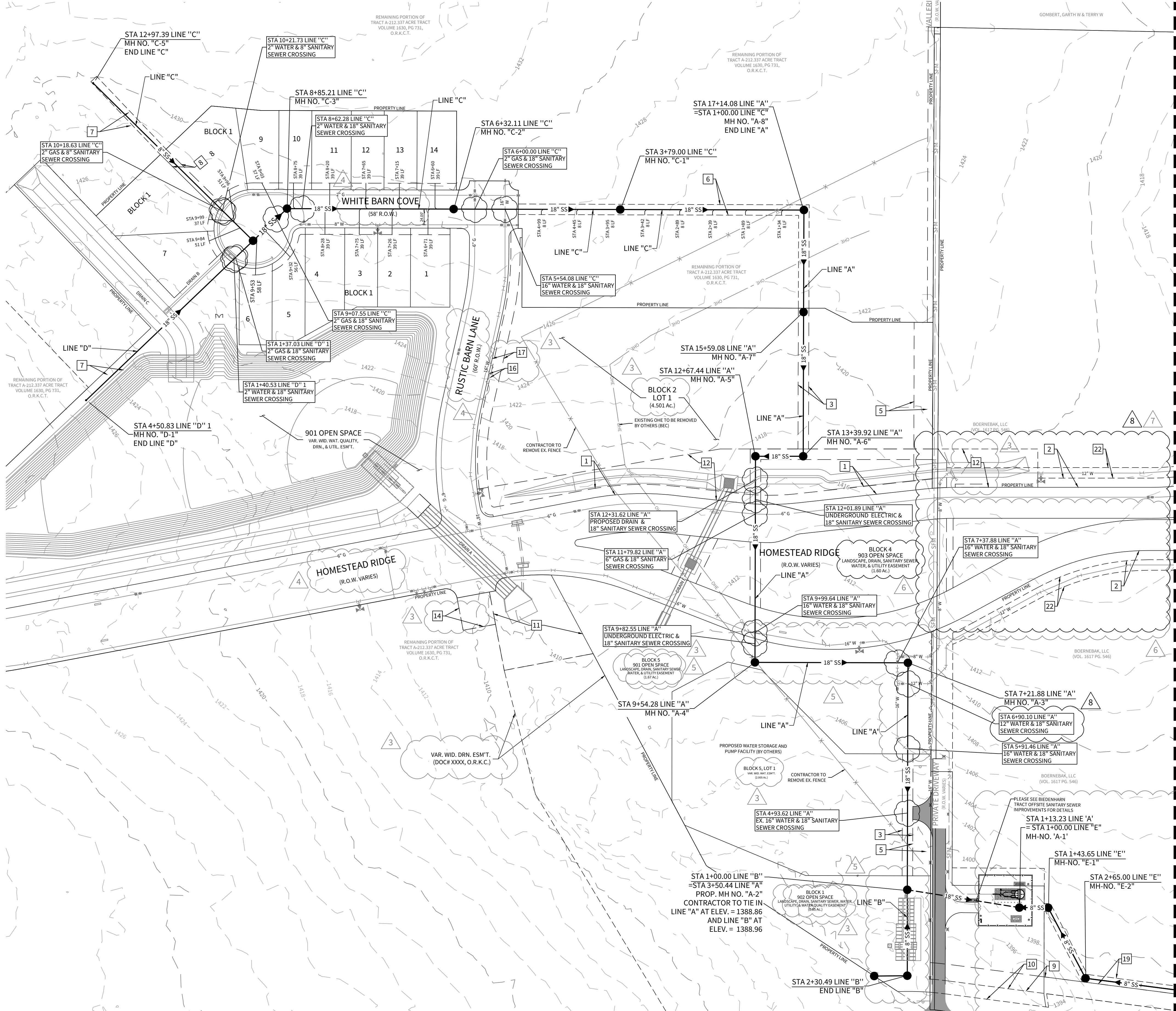
SEWER / GAS CROSSINGS DETAIL

**SIDE VIEW (THIS DETAIL IS VERTICAL ONLY, NOT HORIZONTAL
(N.T.S.))**

NOTE: VERTICAL BEND IS NOT NEEDED WHEN SEWER IS DEEPER THAN 7'



KEYNOTES	
1	1 st UTILITY EASEMENT
2	14 th UTILITY EASEMENT (VOL., PG., D.C.R.)
3	16 th SAN. SEW. EASEMENT
4	VAR. WID. RIGHT OF WAY DEDICATION EASEMENT
5	UTILITY EASEMENT
6	15 th SAN. SEW. EASEMENT TO EXPIRE UPON INCORPORATION OF PLATTED STREET ____ PG. ____ D.C.R.)
7	12 th SAN. SEW. EASEMENT (VOL., PG., D.C.R.)
8	25 th SAN. SEW. EASEMENT
9	25 th WATER EASEMENT (VOL., PG., D.C.R.)
10	20 th UTILITY EASEMENT (VOL., PG., D.C.R.)
11	VAR. WID. DRN. EASEMENT (VOL., PG., D.C.R.)
12	VAR. WID. DRN. EASEMENT
13	VAR. WID. DRN. EASEMENT (VOL., PG., D.C.R.)
14	VAR. WID. DRN. EASEMENT (VOL., PG., D.C.R.)
15	30-40' INDURABLE CONC. DRIVE, UTILITY SAN. SEW. & WATER SEW ____ PG. ____ D.C.R.)
16	3 rd PEDESTRIAN EASEMENT
17	17 th UTILITY EASEMENT
18	20 th UTILITY EASEMENT (VOL., PG., D.C.R.)
19	12 th UTILITY EASEMENT (VOL., PG., D.C.R.)
20	VARIABLE WIDTH RIGHTS OF WAY DEDICATION TO KENDALL COLLEGE (S.W.A.C./DOCUMENT #202-38607) O.K.
21	VARIABLE WIDTH R/W DEDICATION EASEMENT
22	16 th WATER EASEMENT (VOL., PG., D.C.R.)



SEWER/WATER LINE CROSSINGS	
LINE	STATION
"A"	04+93.61
"A"	06+90.10
"A"	07+37.87
"A"	09+99.64
"C"	05+54.08
"C"	08+62.28
"C"	10+21.73
"D"	01+40.53
"E"	19+34.81

SEWER/DRAIN CROSSINGS	
"A"	12+31.62

SEWER/ELECTRIC CROSSINGS	
"A"	9+82.54
"A"	12+01.89

SEWER/GAS LINE CROSSINGS	
"A"	11+79.81
"C"	06+00.00
"C"	9+07.55
"C"	10+18.63
"D"	01+37.03
"E"	16+96.86
"E"	18+96.21

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!!

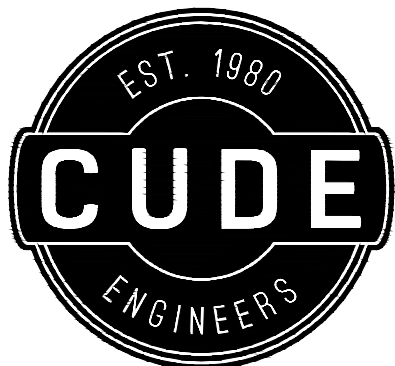
THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD ELECTRIC LINES EXIST WITHIN THE VICINITY OF THE SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THESE UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THIS AREA. ANY DAMAGE DONE TO THESE EXISTING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

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROGRAM. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW OF THE PLANS AND THE INFORMATION 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 CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR EQUIPMENT CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS. THE CONTRACTOR SHALL SUPERVISE THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION AT ALL TRENCH BACKFILL AND PAIVING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION SHALL BE MEASURED BY THE SAND CONE METHOD BY THE TRENCHING AND SHIELDING INSPECTOR/TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED WITHOUT THIS REQUIREMENT ASSURED AND MET. MANUFACTURING AND TESTING RECORD DOCUMENTED TEST RESULTS.
2. ALL 12" OF SPAN SEWER PIPE SHALL BE 30" OR 36" IPS WITH A STRENGTH OF 15,000 PSI.
3. MANHOLE INCREASED TO 30" AS PER 2014 SDG&S 17.37.25.
4. REFERENCE STREET DATA, SURVEY AND GEOTECHNICAL ENGINEERING REPORT FOR PAYMENT DESIGN INFORMATION.
5. EXCAVATION SHALL BE PLACED ON THE UPWARD SIDE OF THE SEWER TRENCH THIS 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. ALL SEWER LATERALS SHALL BE INSTALLED WITH A MINIMUM 150 PSI PRESSURE RATED PIPE.
8. ALL SEWER LATERALS TO BE INSTALLED WITHIN 4' OF ALL WATER MAIN AND LATERAL SERVICE CROSSINGS TO THE LATER CROSSING.
9. SEE LATER CROSSING FOR 290.44(4).



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P: (210) 681.2951 F: (210) 523.7112

CORLEY FARMS
UNIT 1

OVERALL SANITARY SEWER PLAN

DATE
02/14/2023

PROJECT NO.
03481.004

DRAWN BY
C3

CHECKED BY
XV/JC/DDC

REVISIONS

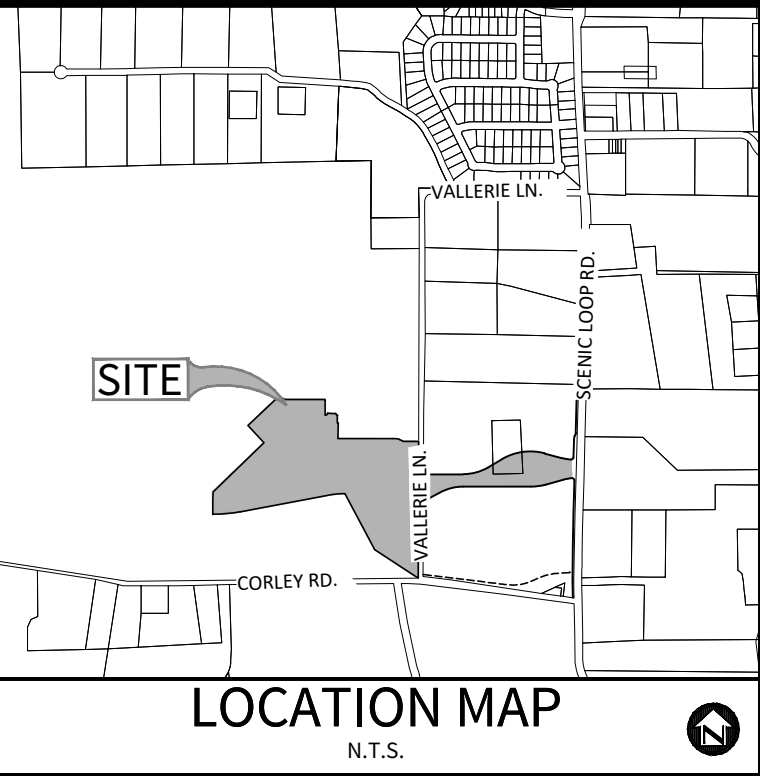
- 1.
- 2.
3. 2021-09-28 - CITY OF BOERNE COMMENTS
4. 2021-11-12 - UPDATED FOR BACKGROUND
COMMENTS & ADDED STREET NAMES
5. 2022-01-14 - EASEMENT UPDATES
6. 2022-08-07 - OPEN SPACE UPDATE, SEWER AND
WATER EXTENSION, CROSSING TABLES UPDATED.
7. 2022-10-05 - REVISED B" WATER MAIN LAYOUT &
ADDED 16" WATER EASEMENT
8. 2023-02-13 - ADDED 8" & 12" WATER MAIN LOOP.
- 9.



02/13/2022
CODE ENGINEERS
 TBPE No. 455
 TBPLS No. 10048500

C44

© 2022 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 FOR ANY OTHER ENDORSEMENT WITHOUT THE PRIOR WRITTEN CONSENT OF, AND ADAPTATION BY, M.W. CUDE ENGINEERS, LLC. THIS DOCUMENT IS NOT INTENDED OR REPRESENTED 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 AT THE INFRINGING PARTY'S SOLE RISK, WITHOUT ANY LIABILITY TO M.W. CUDE ENGINEERS, LLC, AND WILL BE USED AGAINST ANY AND ALL PARTIES TO THE FULLEST EXTENT PERMITTED BY LAW.



OWNER/DEVELOPER:
PULTE HOMES OF TEXAS, L.P.
CONTACT PERSON: FELIPE GONZALEZ
1718 DRY CREEK WAY, SUITE 120
SAN ANTONIO, TX 78259
TEL: (210) 818-7104
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

LEGEND	
PROPERTY LINE	XX" SS
PROPOSED SEWER LINE	XX" W
PROPOSED MANHOLE	XX" G
PROPOSED WATER LINE	OHE
PROPOSED GAS LINE	OHE
EXISTING OVERHEAD ELECTRIC	SFM
EXISTING SANITARY SEWER FORCE MAIN	

KEYNOTES	
1	14" UTILITY EASEMENT
2	14" UTILITY EASEMENT (VOL. PG. O.A.C.R.)
3	16" SAN. SEW. EASEMENT
4	VAR. WID. RIGHT OF WAY DEDICATION EASEMENT
5	UTILITY EASEMENT
6	16" SAN. SEW. EASEMENT TO EXPIRE UPON INCORPORATION OF PLATTED STREET PG. O.A.C.R.)
7	12" SAN. SEW. EASEMENT (VOL. PG. O.A.C.R.)
8	12" SAN. SEW. EASEMENT
9	25" WATER EASEMENT (VOL. PG. O.A.C.R.)
10	20" UTILITY EASEMENT (VOL. PG. O.A.C.R.)
11	VAR. WID. DRN. EASEMENT (VOL. PG. O.A.C.R.)
12	VAR. WID. DRN. EASEMENT
13	VAR. WID. DRN. EASEMENT (VOL. PG. O.A.C.R.)
14	50'X50' INGRESS/EGRESS, DRAIN, UTILITY, SAN. SEW. & WATER EASEMENT PG. O.A.C.R.)
15	VAR. WID. UTILITY EASEMENT
16	3' PEDESTRIAN EASEMENT
17	17" UTILITY EASEMENT
18	20" UTILITY EASEMENT (VOL. PG. O.A.C.R.)
19	12" UTILITY EASEMENT (VOL. PG. O.A.C.R.)
20	12" UTILITY EASEMENT (VOL. PG. O.A.C.R.)
21	VARIABLE WIDTH DRAINAGE EASEMENT (VOL. PG. O.A.C.R.)
22	16" WATER EASEMENT (VOL. PG. O.A.C.R.)

BENCHMARK BM-1

BENCHMARK TO BE SET BY ENGINEER PRIOR TO CONSTRUCTION.

SEWER/WATER LINE CROSSINGS	
LINE	STATION
"A"	04+93.61
"A"	07+37.87
"A"	09+99.64
"C"	05+54.08
"C"	08+62.28
"C"	10+21.73
"D"	01+40.53
"E"	19+34.81
"E"	16+60.00

SEWER/RAIN CROSSINGS	
"A"	12+31.62

SEWER/ELECTRIC CROSSINGS	
"A"	9+82.54
"A"	12+01.89

SEWER/GAS LINE CROSSINGS	
"A"	11+79.81
"C"	06+00.00
"C"	9+07.55
"C"	10+18.63
"D"	01+37.03
"E"	16+96.86
"E"	18+96.21

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!!

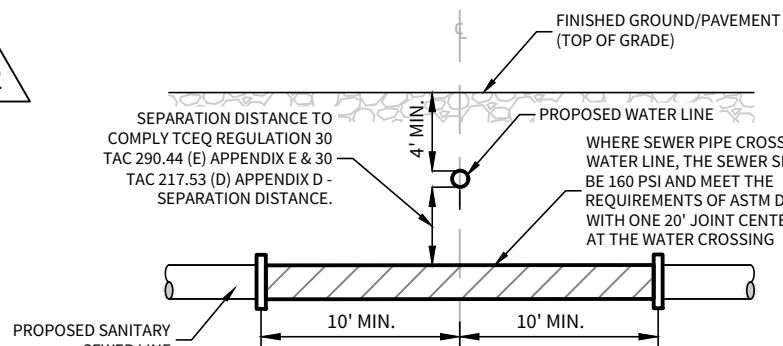
THE CONTRACTOR SHALL BE AWARE THAT OVERHEAD ELECTRIC LINES EXIST WITHIN THE VICINITY OF THE SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE THESE UTILITIES LOCATED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THIS AREA. ANY DAMAGE DONE TO THESE EXISTING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

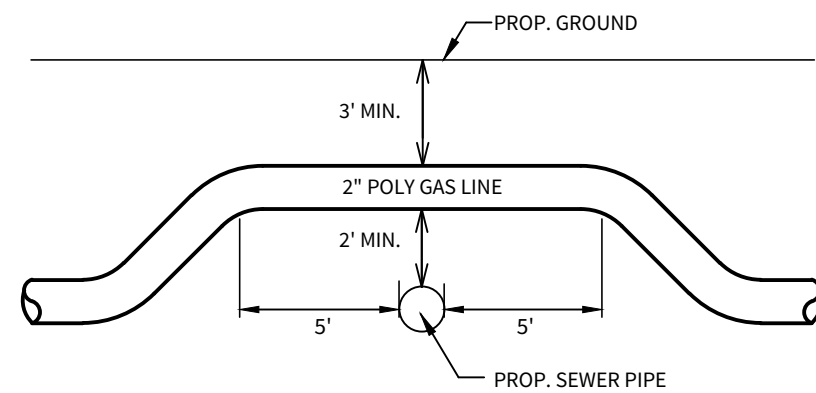
NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 90% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE INSPECTOR/TEST ADMINISTER, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
- ALL 18" SANITARY SEWER PIPE SHALL BE SDR-26 PS15 ASTM F407.
- MANHOLE OPENING INCREASED TO 30" AS PER TAC CHAPTER 217.55.
- REFERENCE STREET DETAIL SHEET AND GEOTECHNICAL ENGINEERING REPORT FOR PAVEMENT DESIGN INFORMATION.
- ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE UPDRAIN SIDE OF THE SEWER TRENCH THUS ALLOWING THE TRENCH TO INTERCEPT ANY SILT CONTAMINATED RUNOFF.
- ALL LATERALS SHALL BE INSTALLED AT A MINIMUM 2.0% SLOPE UNLESS OTHERWISE NOTED.
- BENCHMARK TO BE SET BY ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- ALL SEWER LATERALS TO BE INSTALLED WITH A MINIMUM 100 PSI PRESSURE RATED PIPE AND EMBEDDED IN CEMENT STABILIZED SAND AT ALL WATER MAIN AND LATERAL SERVICE CROSSINGS PER 30 TAC CHAPTER 200.44(b).



TYPICAL SANITARY SEWER / WATER CROSSING DETAIL

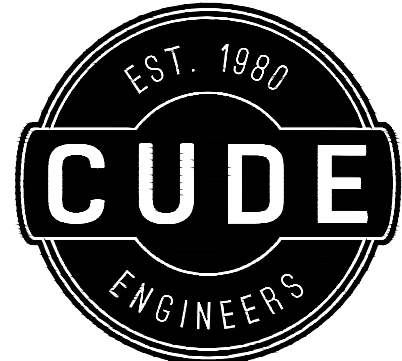
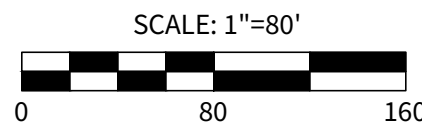
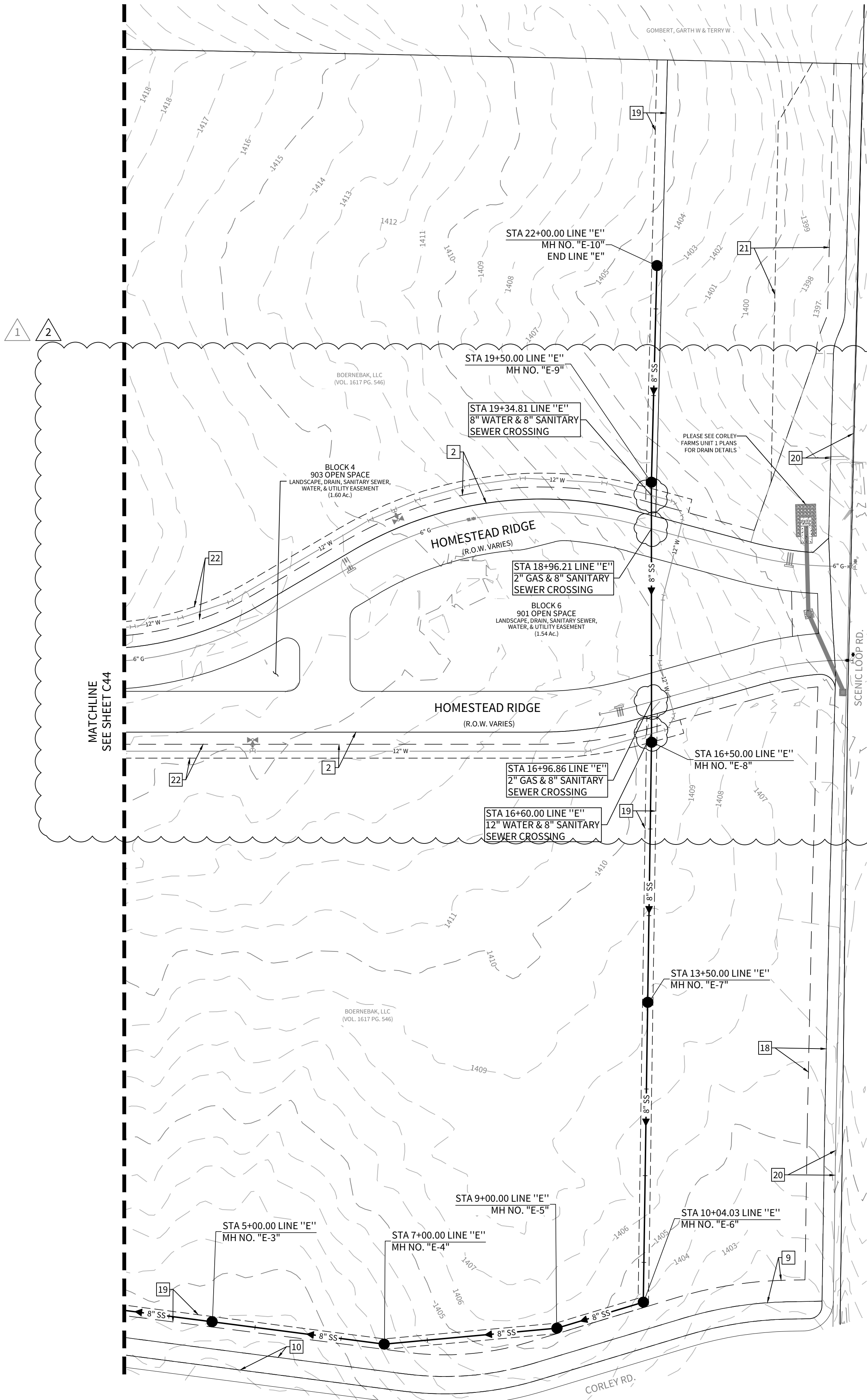
N.T.S.



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'



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

CORLEY FARMS UNIT 1 OVERALL SANITARY SEWER PLAN

DATE

02/14/2023

PROJECT NO.

03481.004

DRAWN BY

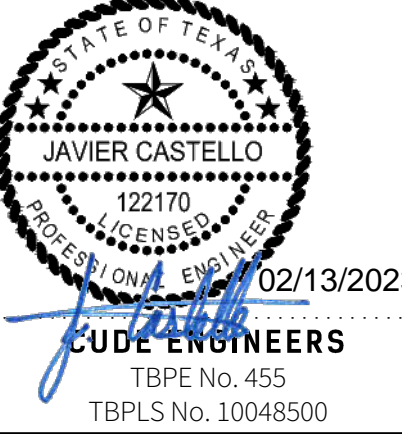
C3

CHECKED BY

XV/JC/DDC

REVISIONS

1.	2022-10-05 - REVISED 8" WATER MAIN LAYOUT & ADDED 18" WATER EASEMENT
2.	2023-02-13 - ADDED 8" & 12" WATER MAIN LOOP.
3.	
4.	
5.	
6.	
7.	
8.	
9.	



02/13/2023

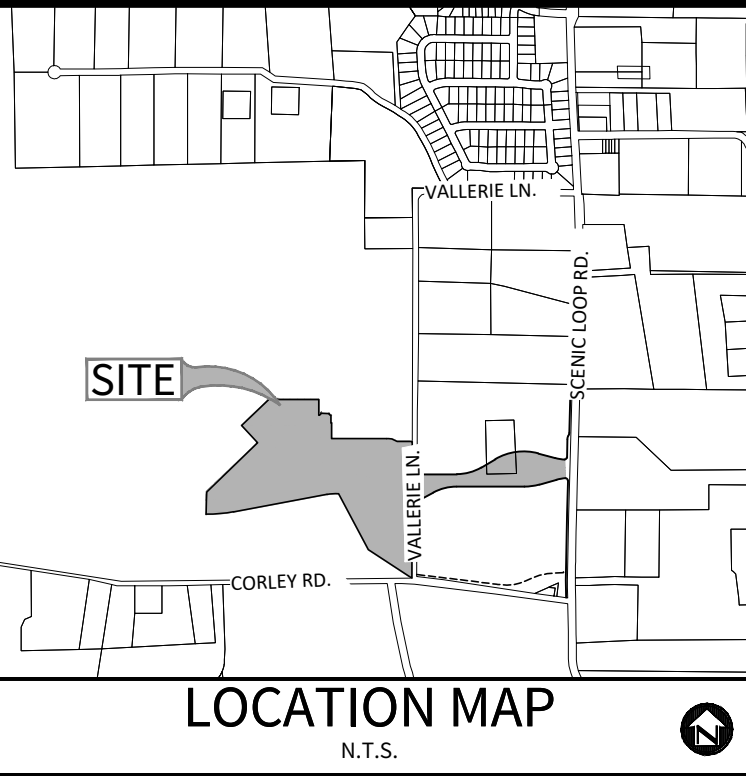
CUDE ENGINEERS

TBPE No. 455

TBPLS No. 10048500

C44A

© 2022 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 FOR ANY OTHER ENDORSEMENT WITHOUT THE PRIOR WRITTEN CONSENT OF, AND ADAPTATION BY, M.W. CUDE ENGINEERS, LLC. THIS DOCUMENT IS NOT INTENDED OR REPRESENTED TO BE USED AGAINST ANY AND ALL PARTIES TO THE POLLEST EXTENT PERMITTED BY LAW. ANY UNAUTHORIZED REPRODUCTION, USE, OR DISTRIBUTION OF THIS DOCUMENT WILL BE AT THE USER'S SOLE RISK, WITHOUT ANY LIABILITY TO M.W. CUDE ENGINEERS, LLC, AND WILL BE USED AGAINST ANY AND ALL PARTIES TO THE POLLEST EXTENT PERMITTED BY LAW.



OWNER/DEVELOPER:

PULTE HOMES OF TEXAS, L.P.
CONTACT PERSON: FELIPE GONZALEZ
1718 DRY CREEK WAY, SUITE 120
SAN ANTONIO, TX 78259
TEL: (210) 818-7104
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

CAUTION!!

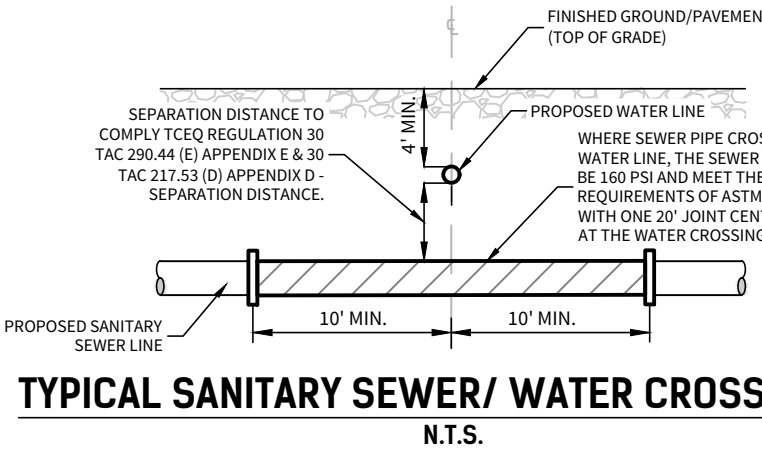
EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER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

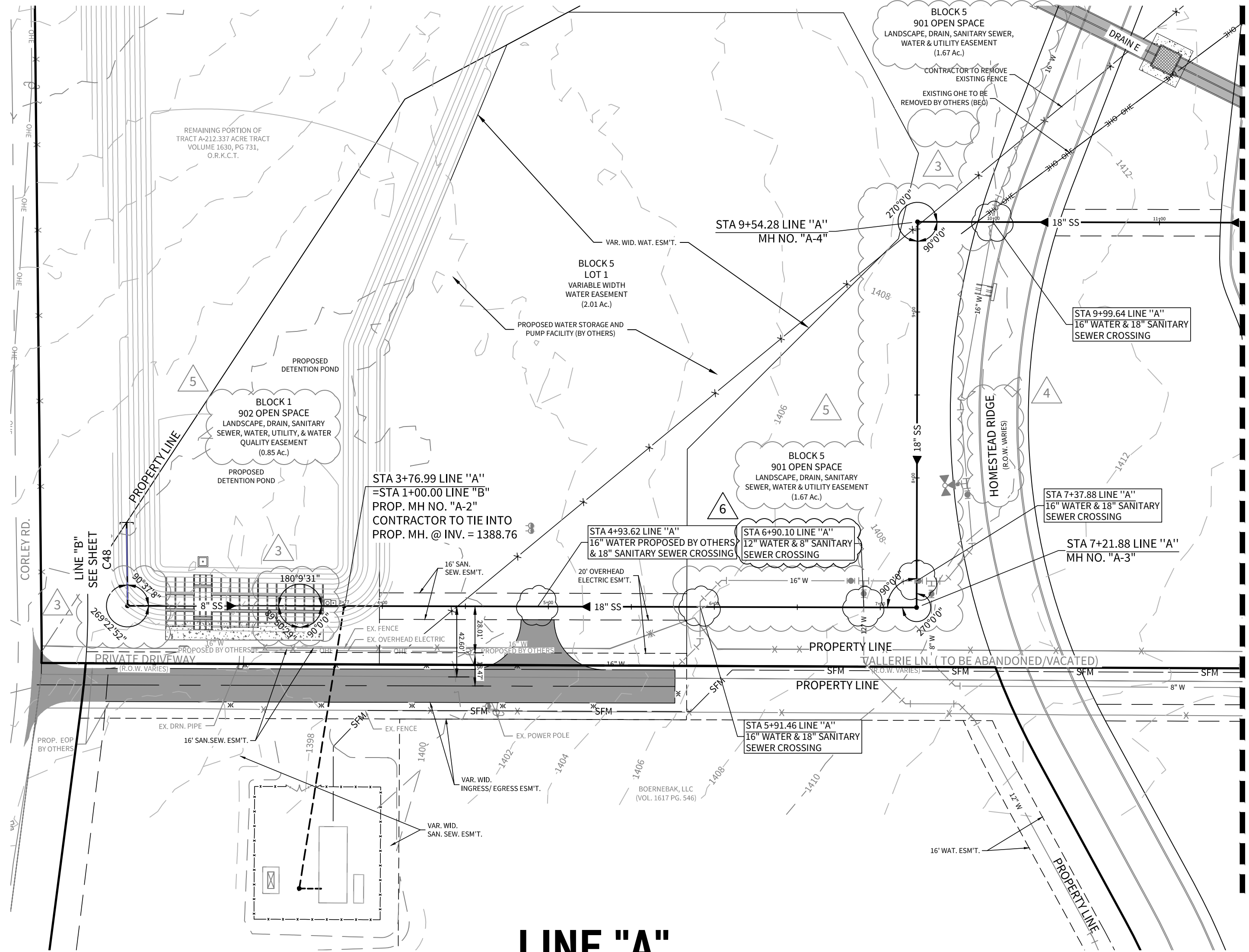
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S 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.



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

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE CITY OF BOERNE INSPECTOR/TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY CITY OF BOERNE WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
2. ALL 18" SANITARY SEWER PIPE SHALL BE SDR-26 PS118 ASTM F479.
3. ALL LATERALS SHALL BE INSTALLED AT A MINIMUM 2.0% SLOPE UNLESS OTHERWISE NOTED.

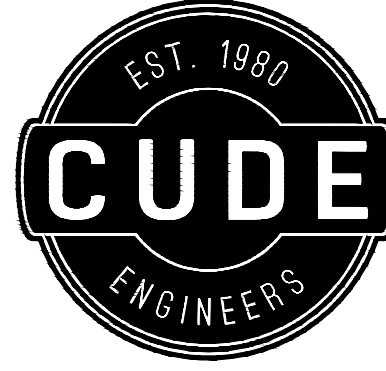
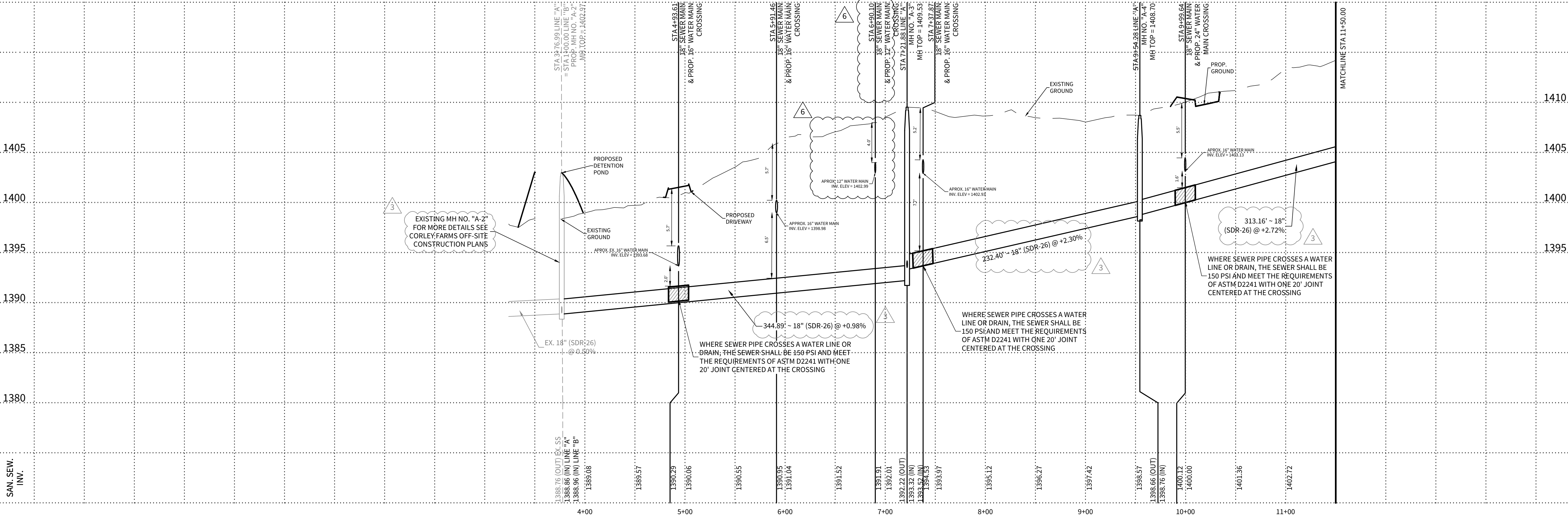


LINE "A"

STA. 3+50.44 TO STA. 11+50.00

*NOTE: KENDALL COUNTY RIGHT OF WAY PERMIT
MUST BE OBTAINED BEFORE WORKING ON
KENDALL COUNTY RIGHT OF WAY

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

CORLEY FARMS
UNIT 1

SANITARY SEWER PLAN & PROFILE LINE "A"

DATE
02/14/2023
PROJECT NO.
03481.004

DRAWN BY
C3

CHECKED BY
XV/JC/DDC

REVISIONS

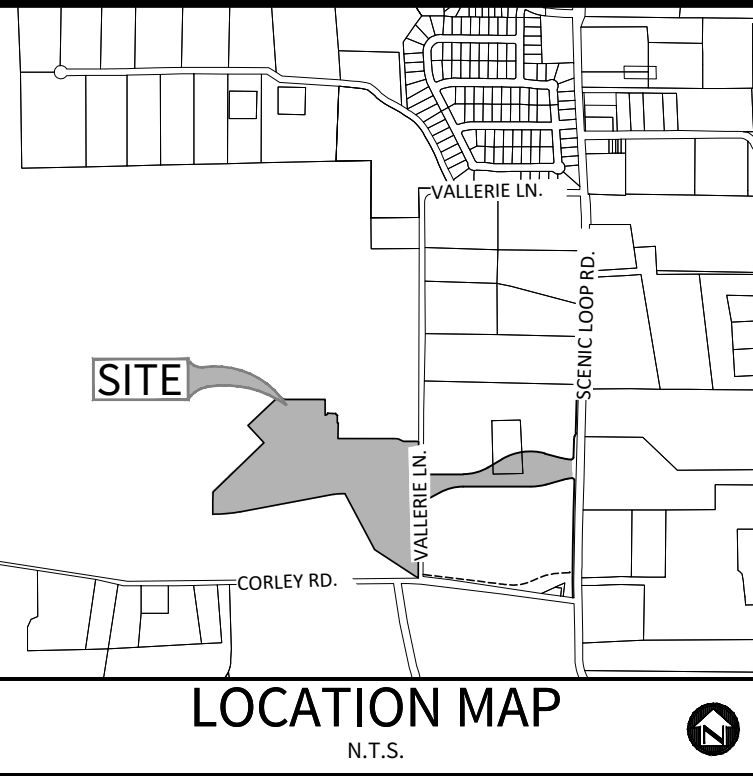
- 1.
- 2.
3. 2021-10-07 - CITY OF BOERNE COMMENTS
4. 2021-11-12 - UPDATED FOR BACKGROUND COMMENTS & ADDED STREET NAMES
5. 2021-11-15 - UPDATED OPEN SPACE NOTES
6. 2023-02-13 - ADDED 8" & 12" WATER MAIN LOOP.
- 7.
- 8.
- 9.



02/13/2023
CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C46

© 2022 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 FOR ANY OTHER ENDORSEMENT WITHOUT THE PRIOR WRITTEN CONSENT OF M.W. CUDE ENGINEERS, LLC. THIS DOCUMENT IS NOT INTENDED OR REPRESENTED 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 AT THE USER'S SOLE RISK. WITHOUT ANY LIABILITY TO M.W. CUDE ENGINEERS, LLC, AND WILL BE USED AGAINST ANY AND ALL PARTIES TO THE FULLEST EXTENT PERMITTED BY LAW.



OWNER/DEVELOPER:
PULTE HOMES OF TEXAS, L.P.
CONTACT PERSON: FELIPE GONZALEZ
1718 DRY CREEK WAY, SUITE 120
SAN ANTONIO, TX 78259
TEL: (210) 818-7104
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

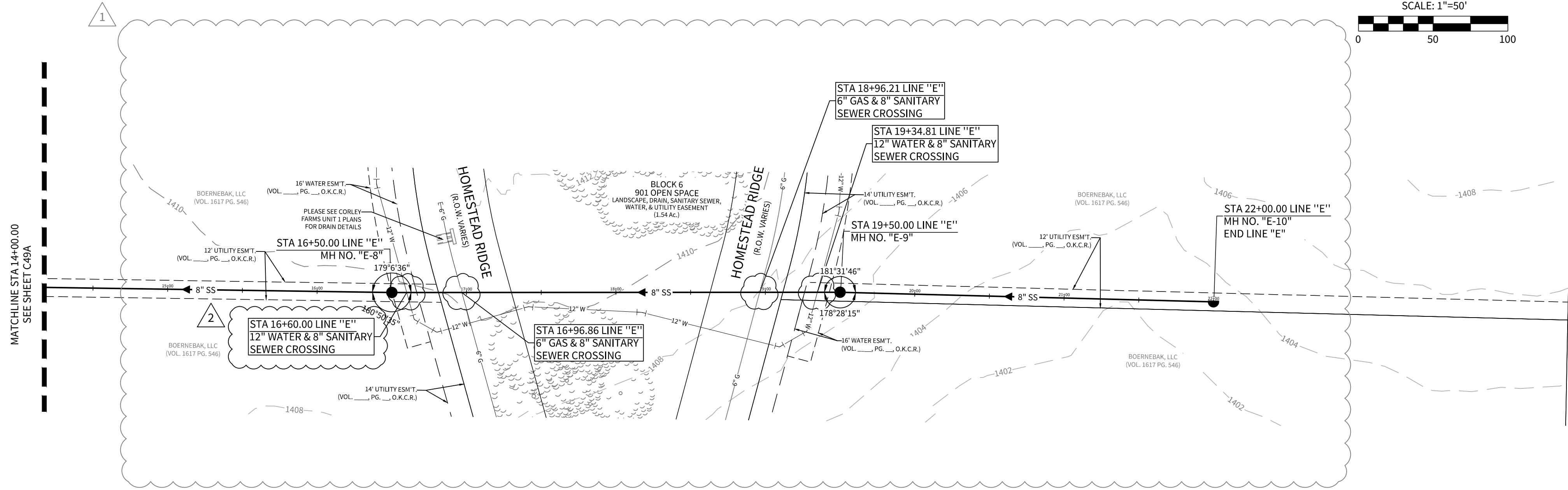
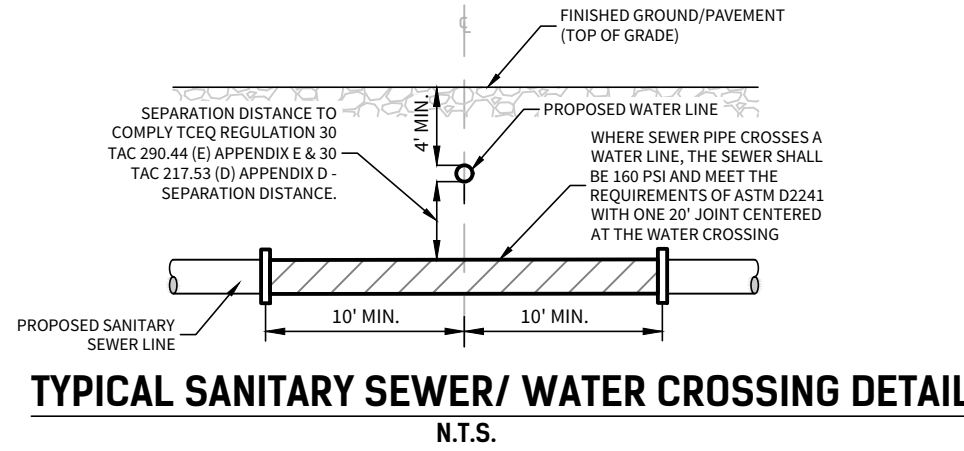
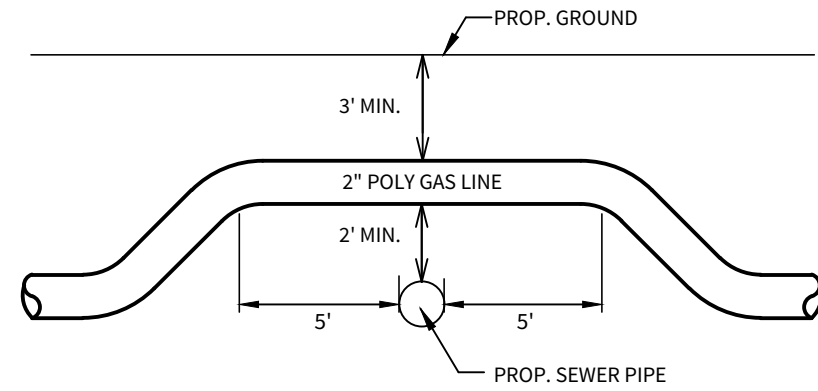
CAUTION!!
EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE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

LEGEND

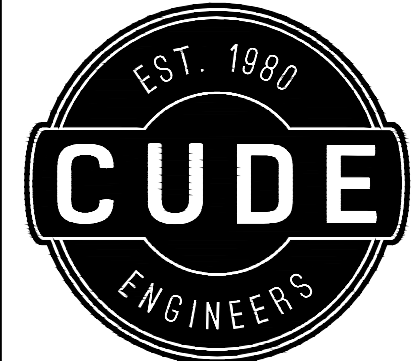
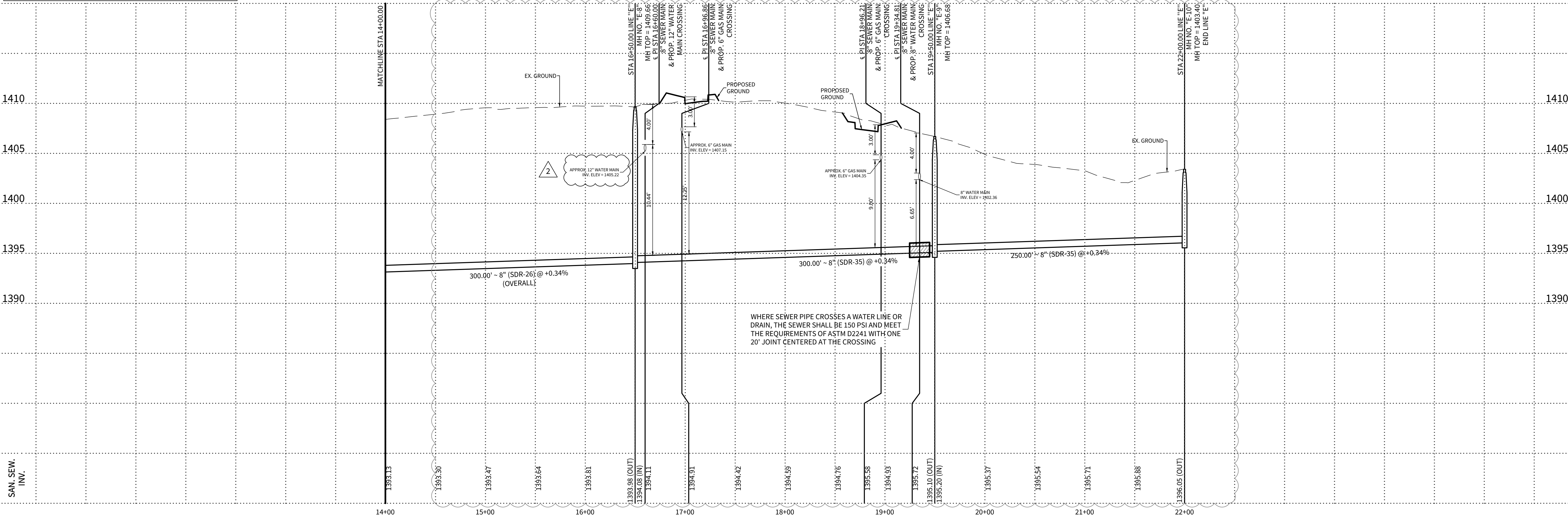
= EXISTING TREE TO BE PRESERVED



LINE "E"

STA. 14+00.00 TO STA. 22+00.00

*NOTE: KENDALL COUNTY RIGHT OF WAY PERMIT
MUST BE OBTAINED BEFORE WORKING ON
KENDALL COUNTY RIGHT OF WAY
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

CORLEY FARMS
UNIT 1

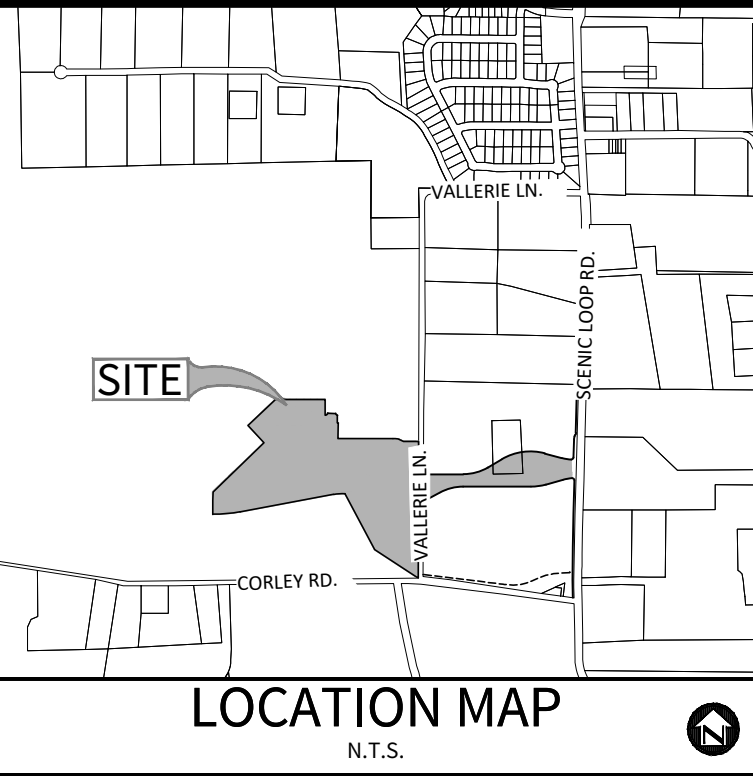
SANITARY SEWER PLAN & PROFILE LINE "E"

DATE	02/14/2023
PROJECT NO.	03481.004
DRAWN BY	C3
CHECKED BY	XV/JC/DDC
REVISIONS	
1.	2022-10-05 - REVISED 8" WATER MAIN LAYOUT & ADDED 16" WATER EXHUMENT
2.	2023-02-13 - ADDED 6" & 12" WATER MAIN LOOP
3.	
4.	
5.	
6.	
7.	
8.	
9.	

STATE OF TEXAS
JAVIER CASTELLO
122170
PROFESSIONAL ENGINEER
CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500
02/13/2023

C49B

© 2022 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 FOR ANY OTHER ENDORSEMENT WITHOUT THE PRIOR WRITTEN CONSENT OF, AND ADAPTATION BY, M.W. CUDE ENGINEERS, LLC. THIS DOCUMENT IS NOT INTENDED 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 AT THE USER'S SOLE RISK, WITHOUT ANY LIABILITY TO M.W. CUDE ENGINEERS, LLC, AND WILL BE USED AGAINST ANY AND ALL PARTIES TO THE GREATEST EXTENT PERMITTED BY LAW.



OWNER/DEVELOPER:
PULTE HOMES OF TEXAS, L.P.
CONTACT PERSON: FELIPE GONZALEZ
1718 DRY CREEK WAY, SUITE 120
SAN ANTONIO, TX 78259
TEL: (210) 818-7104
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

SHEET NOTES:

- ALL 16" PVC SHALL BE C900, DR 18.
ALL 12" PVC SHALL BE C900, DR 18.
ALL 8" PVC SHALL BE C900, DR 18.
- CONTRACTOR SHALL MAINTAIN A MINIMUM DEPTH OF 5 FEET ON ALL 16" MAIN AND 4 FEET DEPTH ON ALL 8" MAIN.

BENCHMARK

BM-1

BENCHMARK TO BE SET BY ENGINEER PRIOR TO CONSTRUCTION.

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) 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 CONTRACTORS 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.

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 EXIST 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.

KEYNOTE 1

STA. 3+12.40

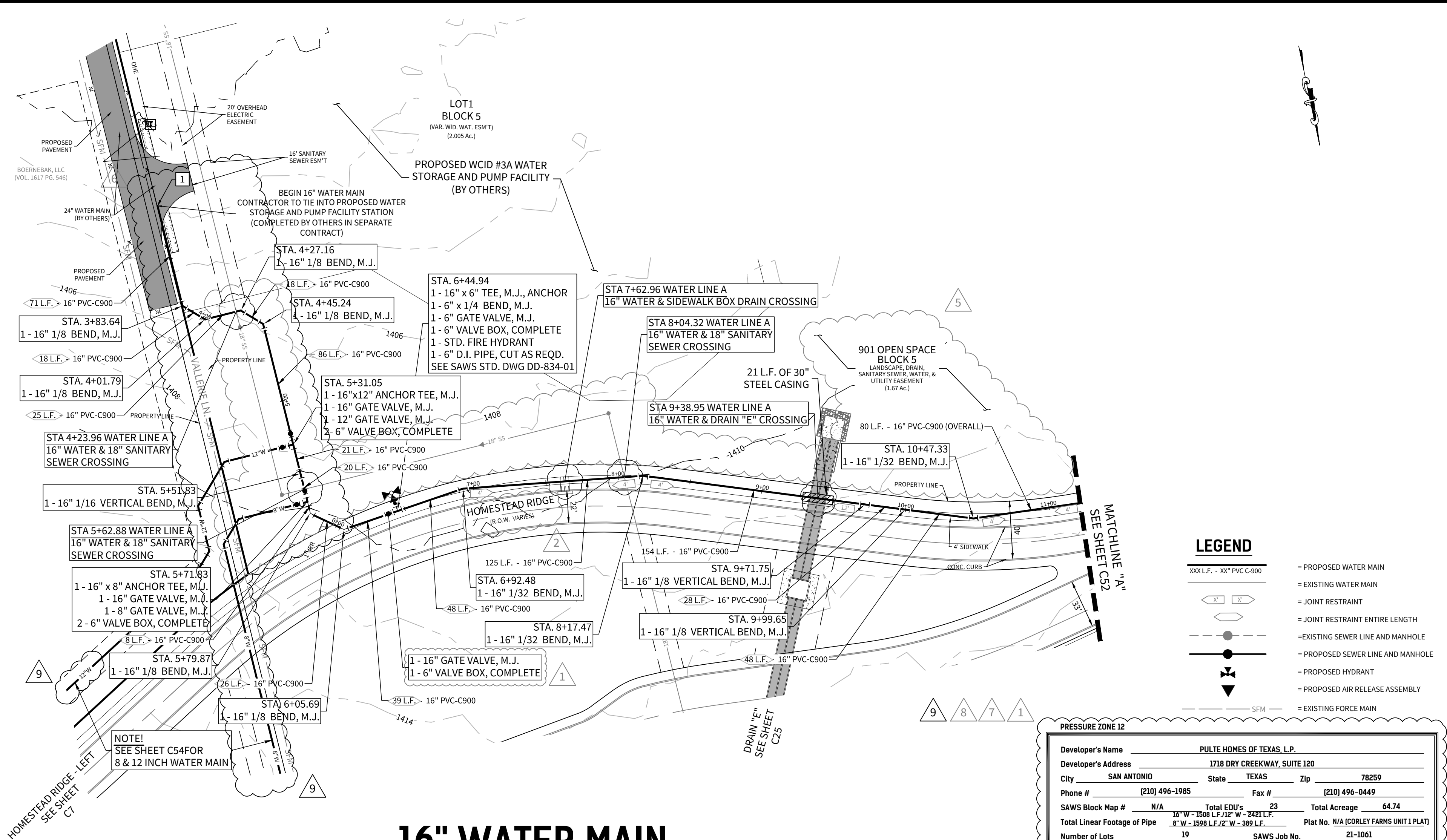
AFTER RELEASE FOR SERVICE,
CONTRACTOR TO TIE NEW 16" MAIN
INTO EXIST. 16" WATER MAIN STUB-OUT WITH
±5 L.F. OF 16" WATER MAIN, CUT AS REQUIRED.

16" VALVE TO REMAIN CLOSED UNTIL AFTER
DISINFECTION & ACCEPTANCE BY SAWS

FOR CHLORINATION INJECTION
2 - 1" CORPORATION STOP C.C. X I.P.
2 - 1" COPPER TUBING, CUT AS REQ'D
2 - 1 1/4" THD. SOLID CAPS, THR.
2 - 1" COMP. X 1 1/4" COUPLING, CURB STOP

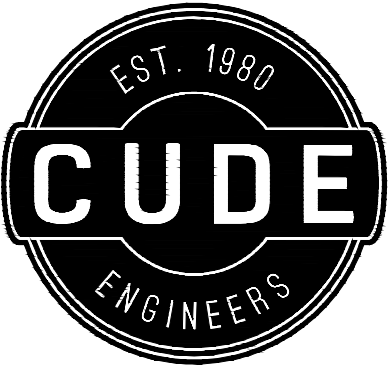
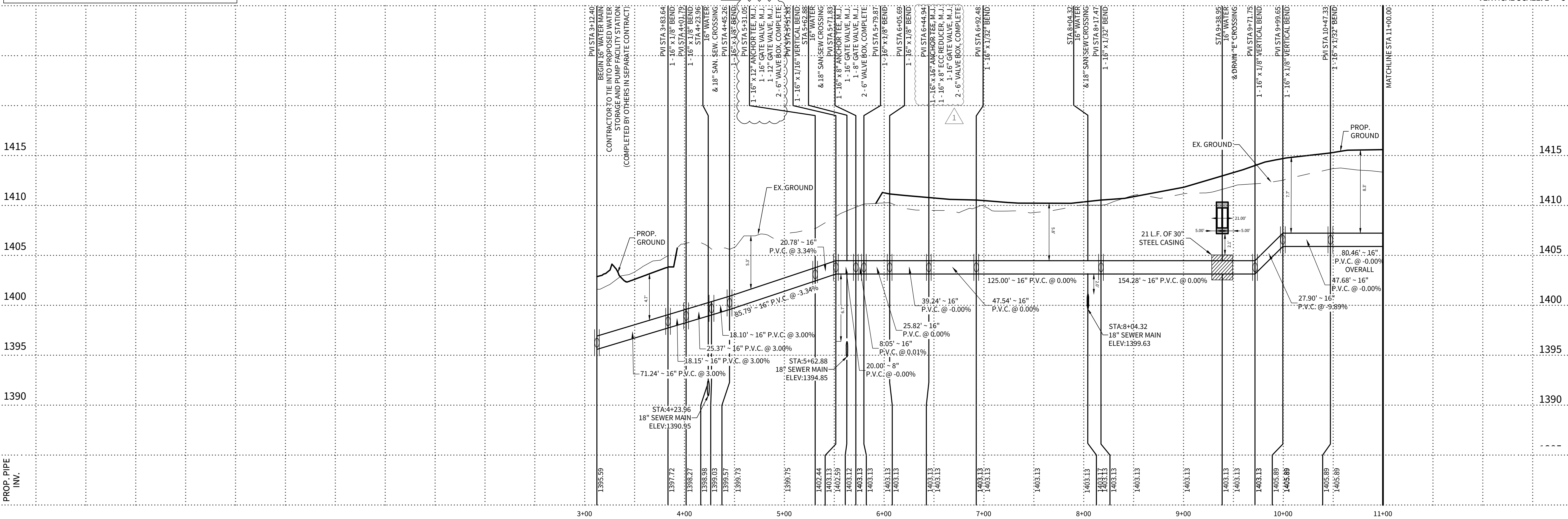
CONTRACTOR SHALL PROVIDE A 2" JUMPER CONNECTION
TO LOAD NEW MAIN

1 - 16" SOLID SLEEVE, M.J.
1 - 2" BLOWOFF ASSEMBLY (TEMP.)
1 - 16"x2" THR. DI. ECCENTRICALLY
TAPPED CAP, M.J. (TEMP.)
SEE SAWS STD DETAIL DWG DD-844-01



16" WATER MAIN

STA. 3+12.40 TO STA. 11+00.00



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F: (210) 523.7112

CORLEY FARMS UNIT 1

WATER LINE A - PLAN & PROFILE

DATE

02/13/2023

PROJECT NO.
03481.004

DRAWN BY

C3

CHECKED BY

XV/JC/DDC

REVISIONS

- 2021-05-13 - SAWS COMMENTS
- 2021-11-12 - ADDED STREET NAMES
-
-
- 2022-01-14 - EASEMENT UPDATES
- 2022-03-31 - WATERLINE UPDATE
- 2022-10-05 - REVISED 8" WATER MAIN LAYOUT & ADDED 16" WATER EASEMENT
- 2023-01-23 - REVISED PIPE DIAMETER
- 2023-02-13 - LOOPED 8" & 12" WATER MAIN EXTENSION



02/13/2023
CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C51

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.

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.



PULTE HOMES OF TEXAS, L.P.
CONTACT PERSON: FELIPE GONZALEZ
1718 DRY CREEK WAY, SUITE 120
SAN ANTONIO, TX 78259
TEL: (210) 818-7104
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

SHEET NOTES:

1. ALL 16" PVC SHALL BE C900, DR 18.
ALL 12" PVC SHALL BE C900, DR 18.
ALL 8" PVC SHALL BE C900, DR 18.
2. CONTRACTOR SHALL CHLORINATE WITH HTH (SAWS SPEC. ITEM NO. 847).
3. CONTRACTOR SHALL MAINTAIN A MINIMUM DEPTH OF 5 FEET ON ALL 16" MAIN AND 4 FEET DEPTH ON ALL 8" MAIN











BM-1

BENCHMARK TO BE SET BY ENGINEER PRIOR TO CONSTRUCTION.

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED HEREIN. CONTRACTOR AND/OR CONTRACTORS SHALL PROVIDE ALL NECESSARY SAFETY 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 CONTRACTORS 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



XXX L.F. - XX' PVC C-900	= PROPOSED WATER MAIN
	= EXISTING WATER MAIN
	= JOINT RESTRAINT
	= JOINT RESTRAINT ENTIRE LENGTH
	= EXISTING SEWER LINE AND MANHOLE
	= PROPOSED SEWER LINE AND MANHOLE
	= PROPOSED HYDRANT
	= PROPOSED AIR RELEASE ASSEMBLY
	= EXISTING FORCE MAIN

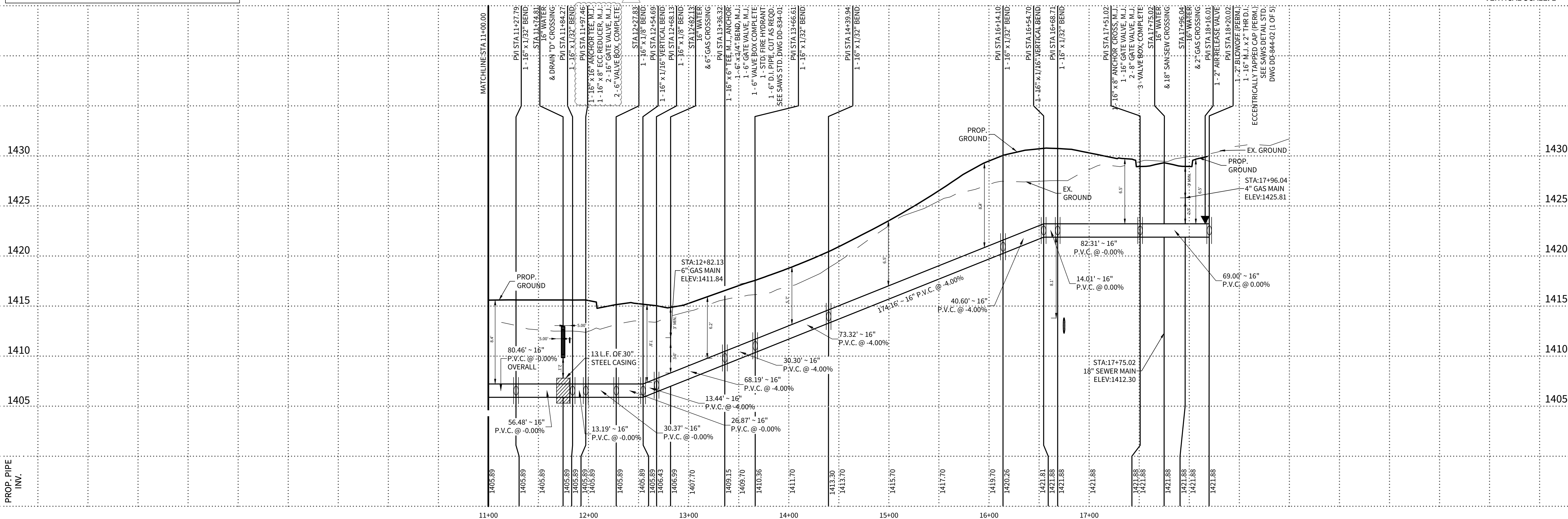
PRESSURE ZONE 12

Developer's Name		PULTE HOMES OF TEXAS, L.P.	
Developer's Address		1718 DRY CREEKWAY, SUITE 120	
City	SAN ANTONIO	State	TEXAS
		Zip	78259
Phone #	(210) 496-1985	Fax #	(210) 496-0449
SAWS Block Map #	N/A	Total EDU's	23
	16' W - 1504' 1/2" W - 2421' L	Total Acreage	64.74
Total Linear Footage of Pipe		8' W - 1598' 1/2" W - 389' L	
Number of Lots	19	SAWS Job No.	21-1061

HORIZONTAL SCALE: 1" = 5'
VERTICAL SCALE: 1" = 5'

16" WATER MAIN

STA. 11+00.00 TO STA. 18+20.02



DATE _____

02/13/2023

PROJECT NO.
03481.004

DRAWN BY
C3

CHECKED BY
XV/JC/DDC

REVISIONS

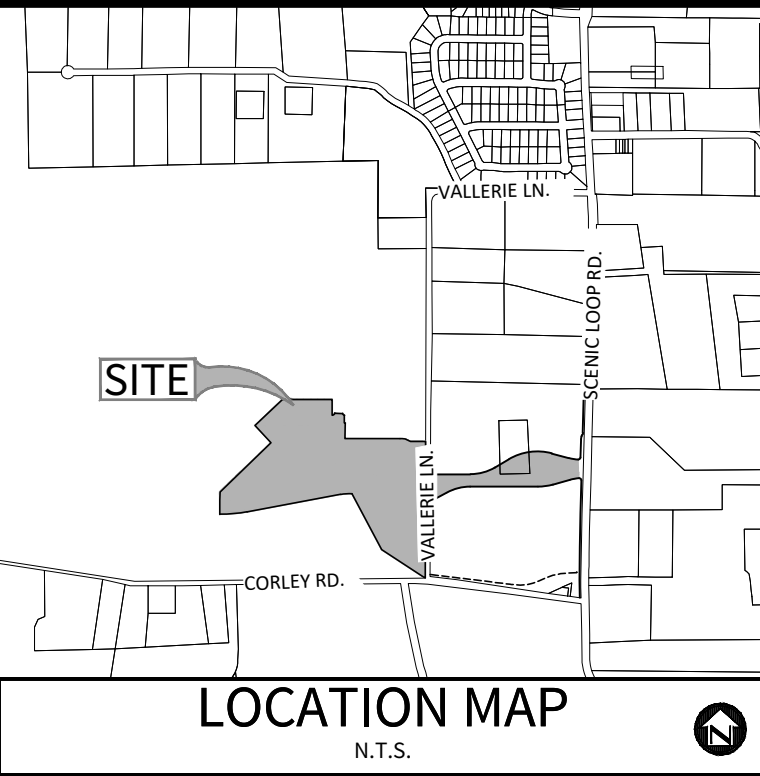
1. 2021-05-13 - SAW'S COMMENTS
- 2.
3. 2021-10-07 - CITY OF BOERNE COMMENTS
4. 2021-11-12 - ADDED STREET NAMES
5. 2023-10-05 - REVISED 8" WATER MAIN LAYOUT & ADDED 16" WATER EASMENT
6. 2023-01-23 - REVISED PIPE DIAMETER
7. 2023-02-13 - LOOPED 8" & 12" WATER MAIN EXTENSION
- 8.
- 9.



02/13/2021

SEAL ENGINEER:
TBPE No. 455
TBPLS No. 10048500

C52



OWNER/DEVELOPER:
PULTE HOMES OF TEXAS, L.P.
CONTACT PERSON: FELIPE GONZALEZ
1718 DRY CREEK WAY, SUITE 120
SAN ANTONIO, TX 78259
TEL: (210) 818-7104
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

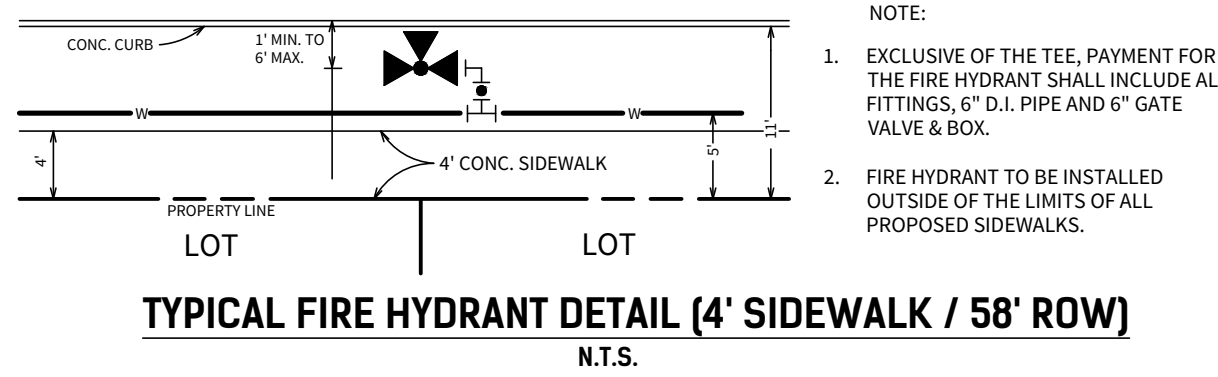
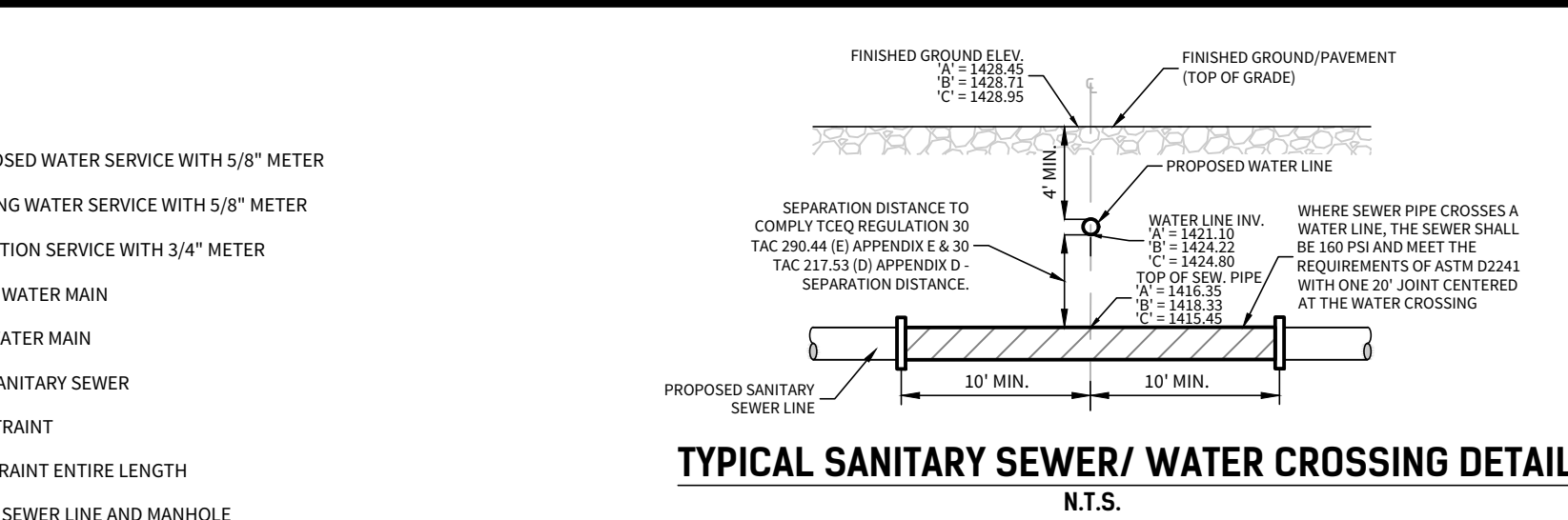
SAWS CONSTRUCTION NOTES COUNTER PERMIT AND GENERAL CONSTRUCTION PERMIT REVISED JULY 2017

GENERAL SECTION

- All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable:
 - Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater Systems", Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and "Public Drinking Water", TAC Title 30 Part 1 Chapter 290.
 - Current TxDOT "Standard Specifications for Construction of Highways, Streets and Drainage".
 - Current "San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction".
 - Current City of San Antonio "Standard Specifications for Public Works Construction".
 - Current City of San Antonio "Utility Excavation Criteria Manual" (UECM).
- The contractor shall not proceed with any pipe installation work until they obtain a copy of the approved Counter Permit or General Construction Permit (GCP) from the consultant and has been notified by SAWS Construction Inspection Division to proceed with the work and has arranged a meeting with the inspector and consultant for the work requirements. Work completed by the contractor without an approved Counter Permit and/or a GCP will be subject to removal and replacement at the expense of the contractors and/or the developer.
- The Contractor shall obtain the SAWS Standard Details from the SAWS website, http://www.saws.org/business_center/specs. Unless otherwise noted within the design plans.
- The Contractor is to make arrangements with the SAWS Construction Inspection Division at 233-2973, on notification procedures that will be used to notify affected home residents and/or property owners 48 hours prior to beginning any work.
- Location and depth of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor at least 1 week prior to construction. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them during construction at no cost to SAWS.
- The Contractor shall verify the exact location of underground utilities and drainage structures at least 1-2 weeks prior to construction whether shown on plans or not. Please allow up to 7 business days for locating requesting pipe location markers on SAWS facilities. The following contact information are supplied for verification purposes:
SAWS Utility Locates: <http://www.saws.org/Service/Locates>
COSA Drainage (210) 207-0724 or (210) 207-6026
COSA Traffic Signal Operations (210) 206-8480
COSA Traffic Signal Damages (210) 207-3951
- Texas State Wide One Call Locator 1-800-545-6005 or 811
- The Contractor shall be responsible for restoring existing fences, curbs, streets, driveways, sidewalks, landscaping and structures to its original or better condition if damages are made as a result of the project's construction.
- All work in Texas Department of Transportation (TxDOT) and/or Bexar County right-of-way shall be done in accordance with respective construction specifications and permit requirements.
- The Contractor shall comply with City of San Antonio or other governing municipality's tree ordinances when excavating near trees.
- The Contractor shall not place any waste materials in the 100-year Flood Plain without first obtaining an approved Flood Plain Permit.
- Holiday Work: Contractors will not be allowed to perform SAWS work on SAWS recognized holidays. Request should be sent to constrworkreq@saws.org
- Weekend Work: Contractors are required to notify the SAWS Inspection Construction Department 48 hours in advance to request weekend work. Request should be sent to constrworkreq@saws.org. Any and all SAWS utility work installed without holiday/weekend approval will be subject to be uncovered for proper inspection.
- Compaction note (Item 804): The contractor shall be responsible for meeting the compaction requirements on all trench backfill and for paying for the tests performed by a third party. Compaction tests will be done at one location point randomly selected, or as indicated by the SAWS Inspector and/or the test administrator, per each 12-inch loose lift per 400 linear feet at a minimum. This project will not be accepted and finalized by SAWS without this requirement being met and verified by providing all necessary documented test results.
- A copy of all testing reports shall be forwarded to SAWS Construction Inspection Division. Water Section

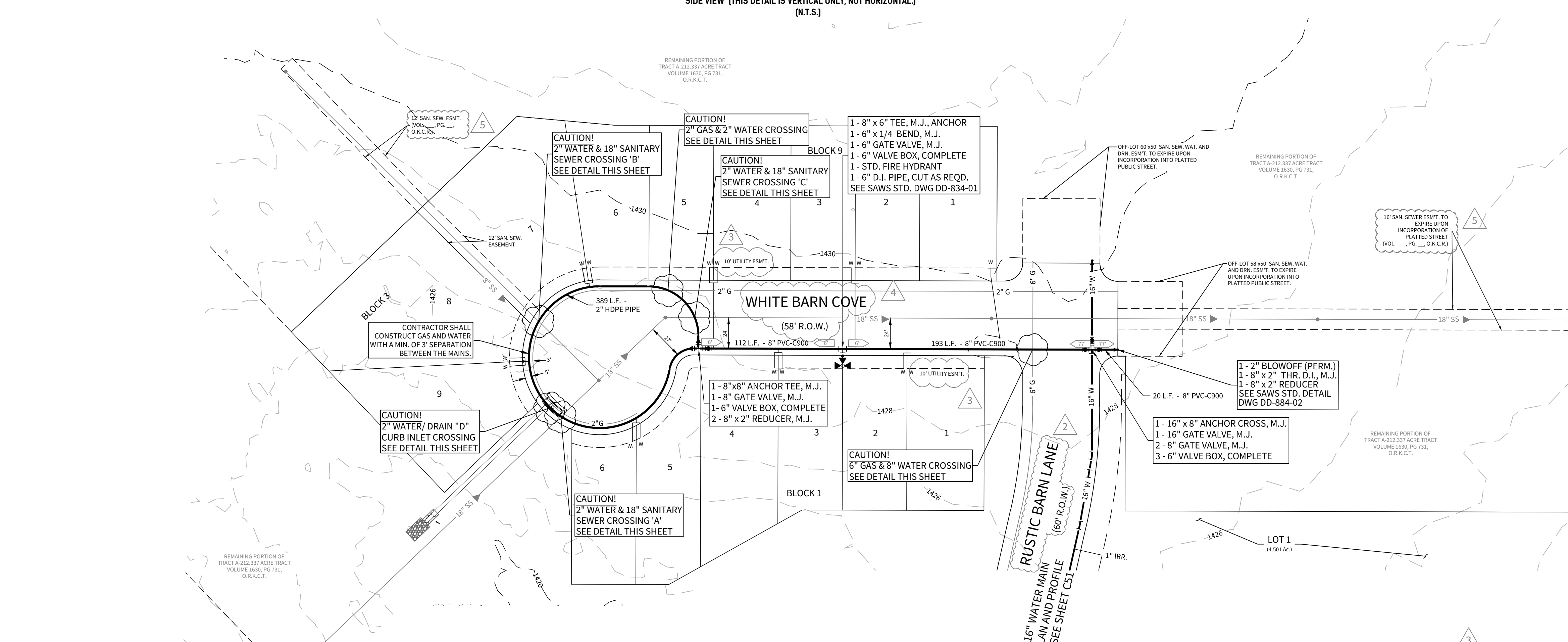
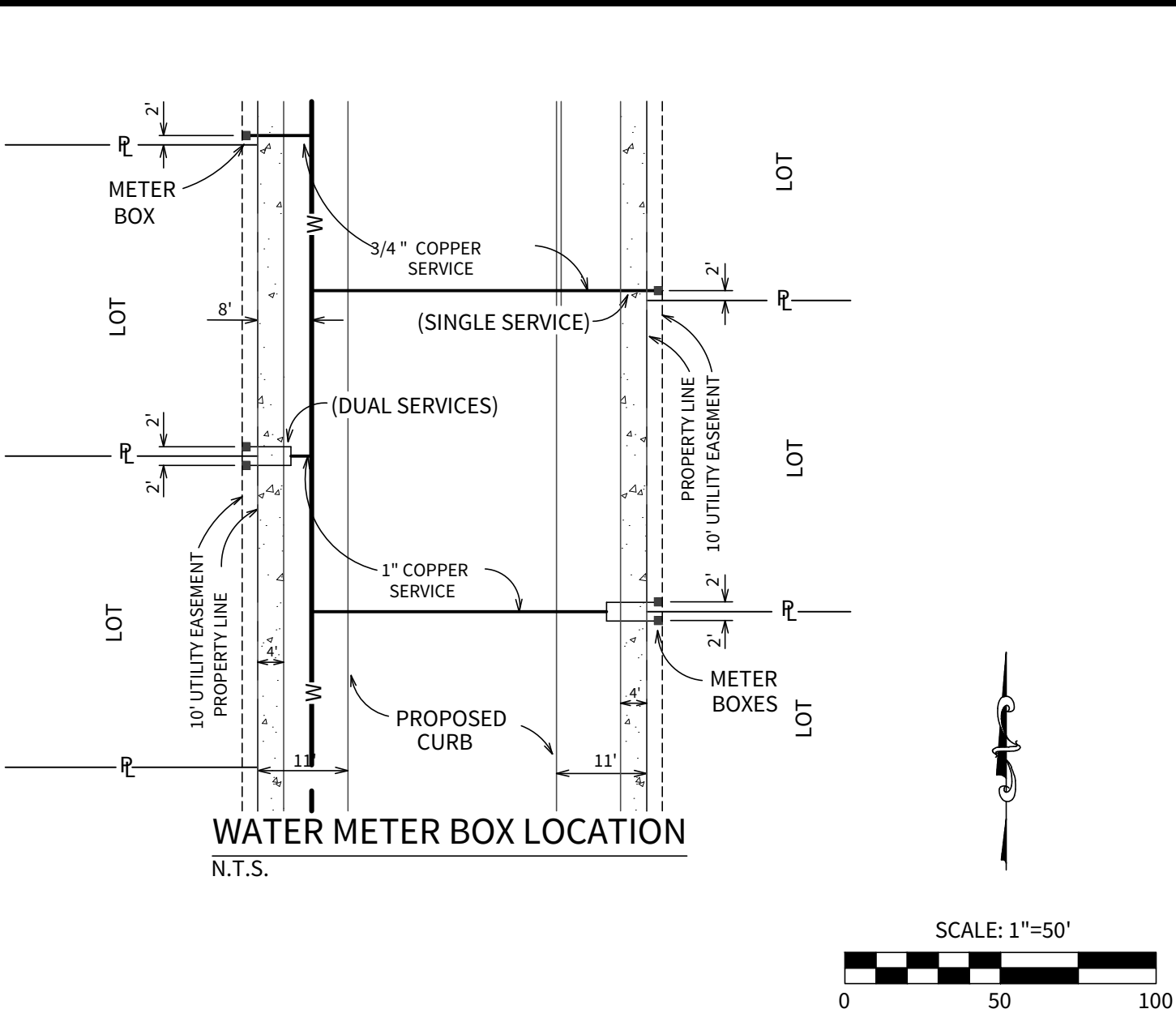
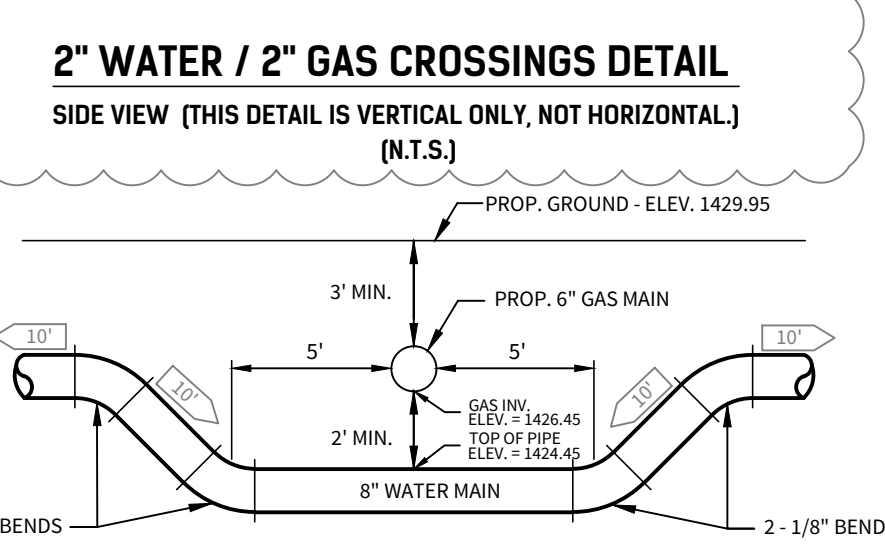
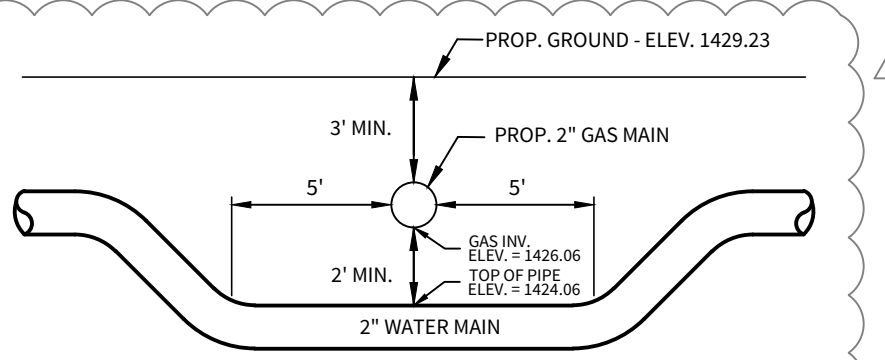
WATER SECTION

- Prior to tie-ins, any shutdowns of existing mains of any size must be coordinated with the SAWS Construction Inspection Division at least one week in advance of the shutdown. The Contractor must also provide a sequence of work as related to the tie-ins, this is at no additional cost to SAWS or the project and it is the responsibility of the Contractor to sequence the work accordingly. For water mains 12" or higher: SAWS Emergency Operations Center (210) 233-2014
- Asbestos Cement (AC) pipe, also known as transite pipe which is known to contain asbestoscontaining material (ACM), may be located within the project limits. Special waste management procedures and health safety requirements will be applicable when removal and/or disturbance of this pipe occurs. Such work is to be made under Special Specification Item No. 3000, "Special Specification for Handling Asbestos Cement Pipe".
- Valve removal: Where the contractor is to abandon a water main, the control valve located on the abandoning branch will be removed and replaced with a cap/plug (NSP).
- Suitable anchorage/thrust blocking or joint restraint shall be provided at all of the following main locations: dead ends, plugs, caps, tees, crosses, valves, and bends, in accordance with the Standard Drawings DD-839 Series and Item No. 839, in the SAWS Standard Specifications for Construction.
- All valves shall read "open right".
- PRVs Required: Contractor to verify that no portion of the tract is below ground elevation of 1425 feet where the static pressure will normally exceed 80 PSI. At all such locations where the ground level is below 1425 feet, the Developer or Builder shall install at each lot, on the customer's side of the meter, an approved type pressure regulator in conformance with the Plumbing Code of the City of San Antonio. No dual services allowed for any lot(s) if "PRV is/are required for such lot(s)", only single service connections shall be allowed. (Note: A pressure regulator is also known as a pressure reducing valve (PRV).
- Pipe Disinfection with Dry HTH for Projects less than 800 linear feet. (Item No. 847.3): Mains shall be disinfected with dry HTH where shown in the contract documents or as directed by the Inspector, and shall not exceed a total length of 800 feet. This method of disinfection will also be followed for main repairs. The Contractor shall utilize all appropriate safety measure to protect his personnel during disinfection operations.
- Backflow Prevention Devices:
 - All irrigation services within residential areas are required to have backflow prevention devices.
 - All commercial backflow prevention devices must be approved by SAWS prior to installation.
- Final connection to the existing water main shall not be made until the water main has been pressure tested, chlorinated, and SAWS has released the main for tie-in and use.
- All meters shall be 5/8", unless otherwise noted.
- All pipes shall be C-900, CLASS 235 DR 18, unless otherwise noted.



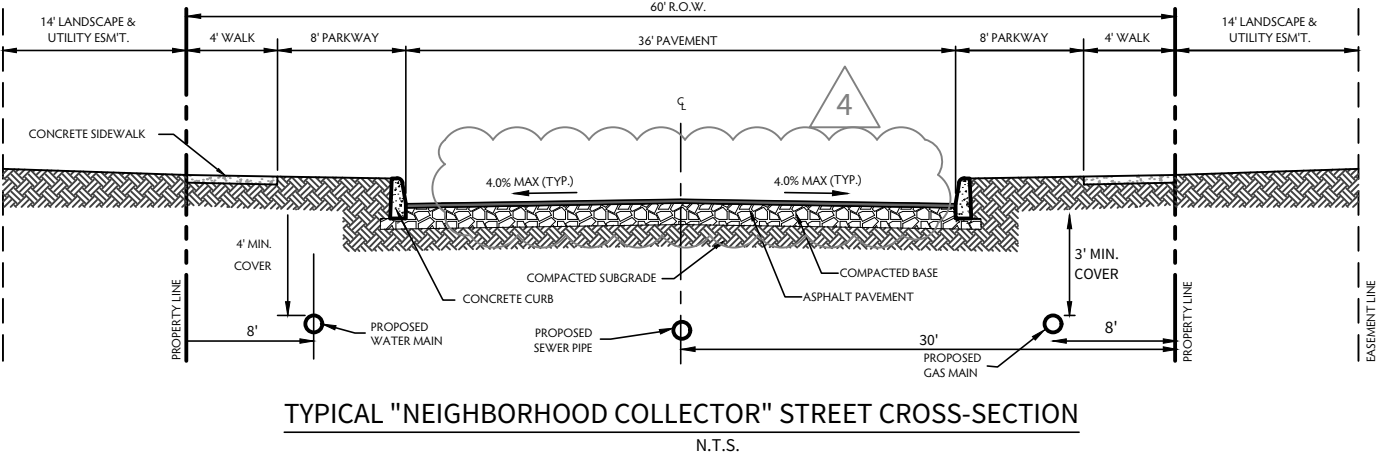
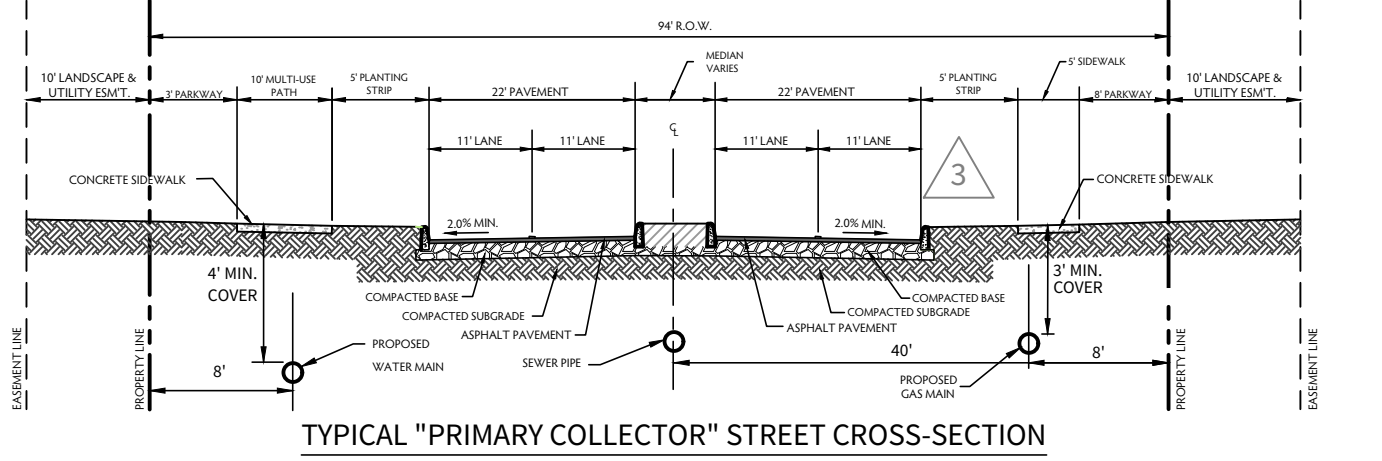
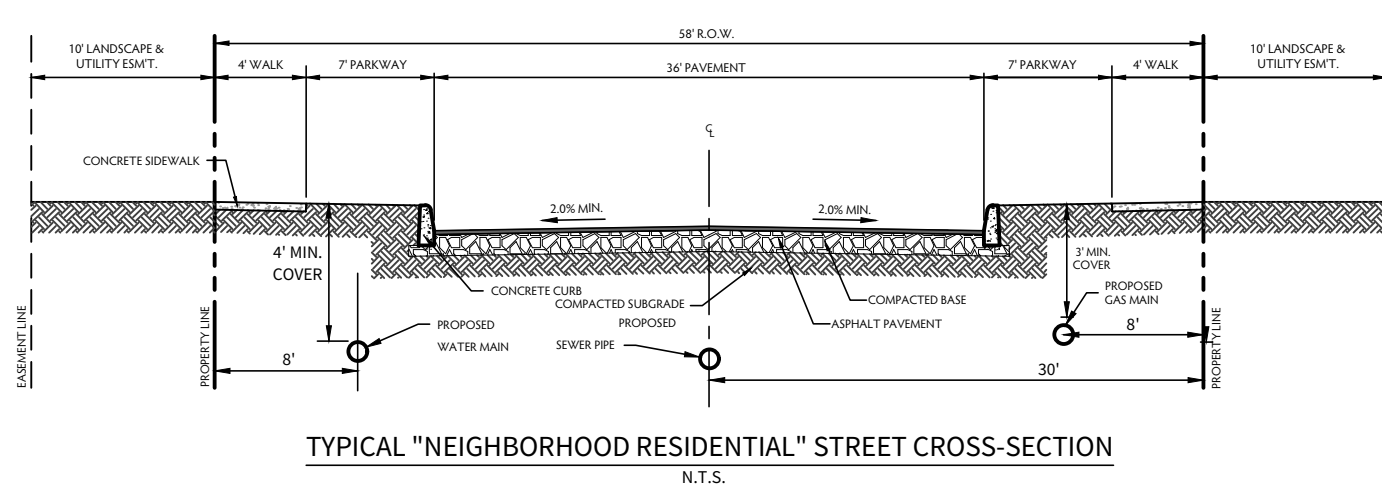
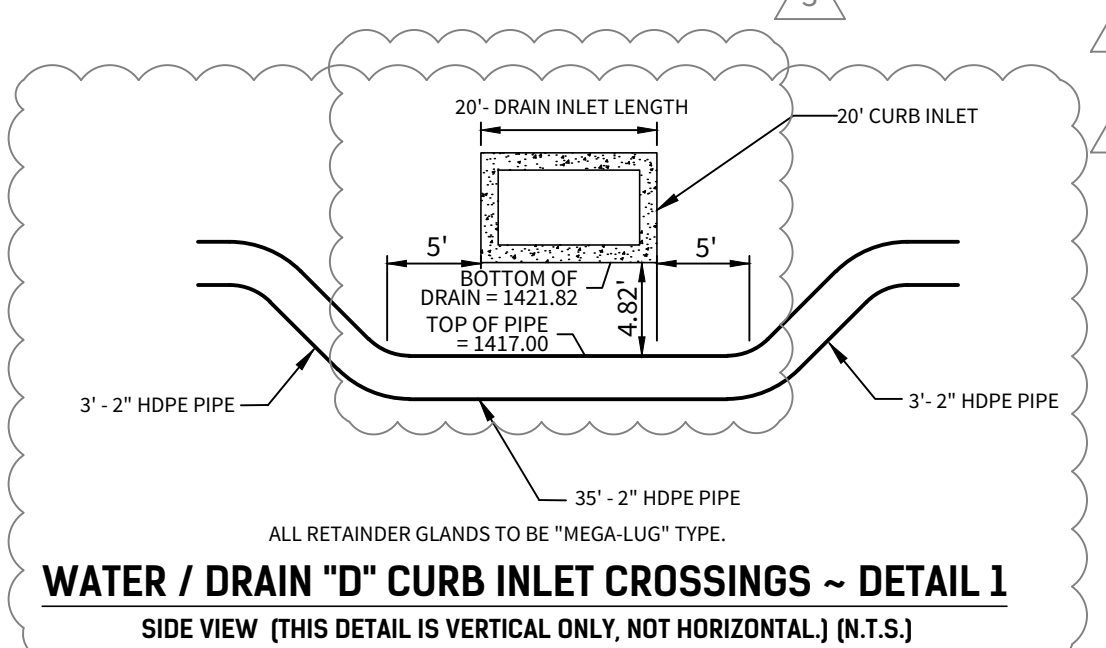
TRENCH EXCAVATION PROTECTION

CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SURVEY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) 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 CONTRACTORS 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.

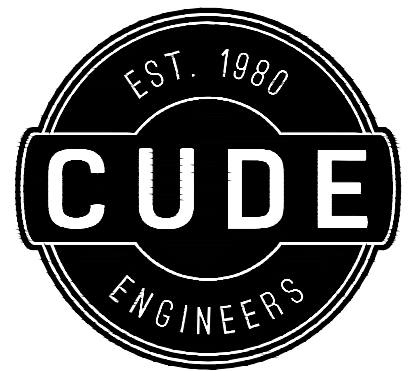


8" WATER MAIN

2" WATER MAIN INLET CROSSINGS	
	LENGTH
A INLET	20'
B STEEL CASING	30'
C HORIZ PIPE	35'
D VERT PIPE	20'
INLET INVERT DEPTH	2.5'
INLET TOTAL DEPTH	3.0'
PIPE BURY	4.0'
PIPE DIAMETER	2"



PRESSURE ZONE 12			
Developer's Name PULTE HOMES OF TEXAS, L.P.			
Developer's Address 1718 DRY CREEKWAY, SUITE 120			
City	SAN ANTONIO	State	TEXAS
City	SAN ANTONIO	State	TEXAS
Phone #	(210) 496-1085	Fax #	(210) 496-0449
SAWS Block Map # N/A		Total EDUs # 23	Total Acreage 64.74
Total Linear Footage of Pipe 8" W - 1598 L.F./2" W - 389 L.F.		Plot No. N/A (CORLEY FARMS UNIT 1 PLAT)	
Number of Lots 19		SAWS Job No. 21-1061	

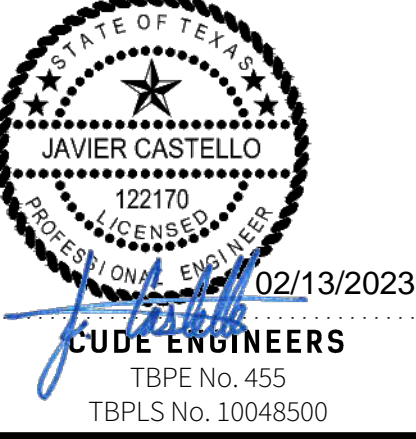


4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

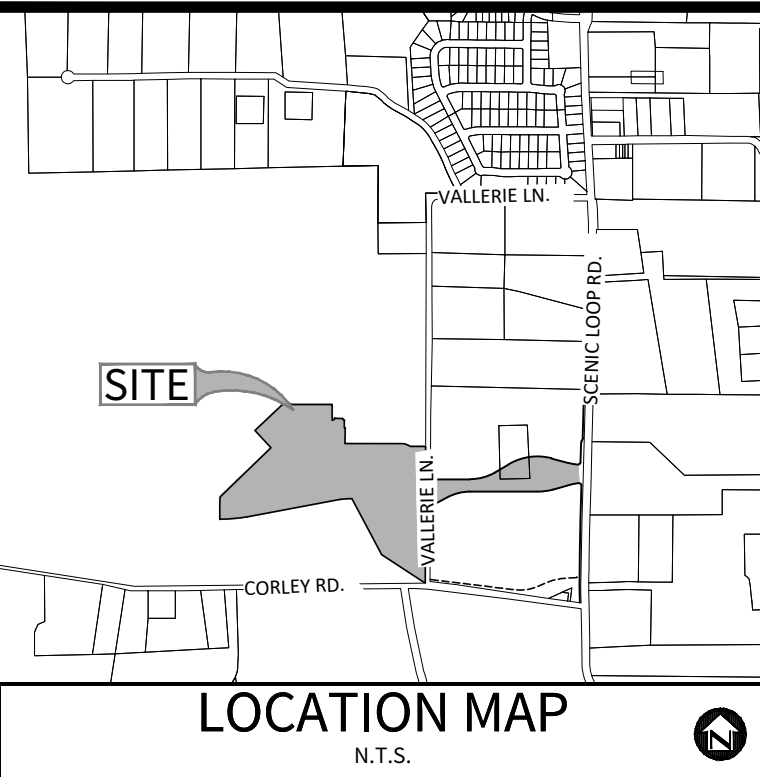
CORLEY FARMS
UNIT 1
WATER DISTRIBUTION PLAN

DATE
02/13/2023
PROJECT NO.
03481.004
DRAWN BY
C3
CHECKED BY
XV/JC/DCC

REVISIONS	
1.	2021-05-13 - SAWS COMMENTS
2.	2021-06-01 - SAWS COMMENTS
3.	2021-06-10 - SAWS COMMENTS
4.	2021-10-07 - CITY OF BOERNE COMMENTS
5.	2021-11-12 - ADDED STREET NAMES
6.	2023-10-05 - REVISED BY "WATER MAIN LAYOUT & ADDED 16" WATER EASEMENT & UPDATED EASEMENT LABELS
7.	2023-01-23 - REVISED PIPE DIAMETER
8.	EXTENSION
9.	



CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500



OWNER/DEVELOPER:
PULTE HOMES OF TEXAS, L.P.
CONTACT PERSON: FELIPE GONZALEZ
1718 DRY CREEK WAY, SUITE 120
SAN ANTONIO, TX 78259
TEL: (210) 818-7104
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

SAWS CONSTRUCTION NOTES COUNTER PERMIT AND GENERAL CONSTRUCTION PERMIT REVISED JULY 2017

GENERAL SECTION

- All materials and construction procedures within the scope of this contract shall be approved by the San Antonio Water System (SAWS) and comply with the Plans, Specifications, General Conditions and with the following as applicable:
 - Current Texas Commission on Environmental Quality (TCEQ) "Design Criteria for Domestic Wastewater Systems", Texas Administrative Code (TAC) Title 30 Part 1 Chapter 217 and "Public Drinking Water", TAC Title 30 Part 1 Chapter 290.
 - Current TxDOT "Standard Specifications for Construction of Highways, Streets and Drainage".
 - Current "San Antonio Water System Standard Specifications for Water and Sanitary Sewer Construction".
 - Current City of San Antonio "Standard Specifications for Public Works Construction".
 - Current City of San Antonio "Utility Excavation Criteria Manual" (UECM).
- The contractor shall not proceed with any pipe installation work until they obtain a copy of the approved Counter Permit or General Construction Permit (GCP) from the consultant and has been notified by SAWS Construction Inspection Division to proceed with the work and has arranged a meeting with the inspector and consultant for the work requirements. Work completed by the contractor without an approved Counter Permit and/or a GCP will be subject to removal and replacement at the expense of the contractors and/or the developer.
- The Contractor shall obtain the SAWS Standard Details from the SAWS website, http://www.saws.org/business_center/specs. Unless otherwise noted within the design plans.
- The Contractor is to make arrangements with the SAWS Construction Inspection Division at 233-2973, on notification procedures that will be used to notify affected home residents and/or property owners 48 hours prior to beginning any work.
- Location and depth of existing utilities and service laterals shown on the plans are understood to be approximate. Actual locations and depths must be field verified by the Contractor at least 1 week prior to construction. It shall be the Contractor's responsibility to locate utility service lines as required for construction and to protect them during construction at no cost to SAWS.
- The Contractor shall verify the exact location of underground utilities and drainage structures at least 1-2 weeks prior to construction whether shown on plans or not. Please allow up to 7 business days for locates requesting pipe location markers on SAWS facilities. The following contact information are supplied for verification purposes:
 - SAWS Utility Locates: <http://www.saws.org/Service/Locates>
 - COSA Drainage (210) 207-0724 or (210) 207-6026
 - COSA Traffic Signal Operations (210) 206-8480
 - COSA Traffic Signal Damages (210) 207-3951
- Texas State Wide One Call Locator 1-800-545-6005 or 811
- The Contractor shall be responsible for restoring existing fences, curbs, streets, driveways, sidewalks, landscaping and structures to its original or better condition if damages are made as a result of the project's construction.
- All work in Texas Department of Transportation (TxDOT) and/or Bexar County right-of-way shall be done in accordance with respective construction specifications and permit requirements.
- The Contractor shall comply with City of San Antonio or other governing municipality's tree ordinances when excavating near trees.
- The Contractor shall not place any waste materials in the 100-year Flood Plain without first obtaining an approved Flood Plain Permit.
- Holiday Work: Contractors will not be allowed to perform SAWS work on SAWS recognized holidays. Request should be sent to costworkreq@saws.org.
- Weekend Work: Contractors are required to notify the SAWS Inspection Construction Department 48 hours in advance to request weekend work. Request should be sent to costworkreq@saws.org.
- Any and all SAWS utility work installed without holiday/weekend approval will be subject to be uncovered for proper inspection.
- Compaction note (Item 804): The contractor shall be responsible for meeting the compaction requirements on all trench backfill and for paying for the tests performed by a third party. Compaction tests will be done at one location point randomly selected, or as indicated by the SAWS Inspector and/or the test administrator, per each 12-inch loose lift per 400 linear feet at a minimum. This project will not be accepted and finalized by SAWS without this requirement being met and verified by providing all necessary documented test results.
- A copy of all testing reports shall be forwarded to SAWS Construction Inspection Division. Water Section

WATER SECTION

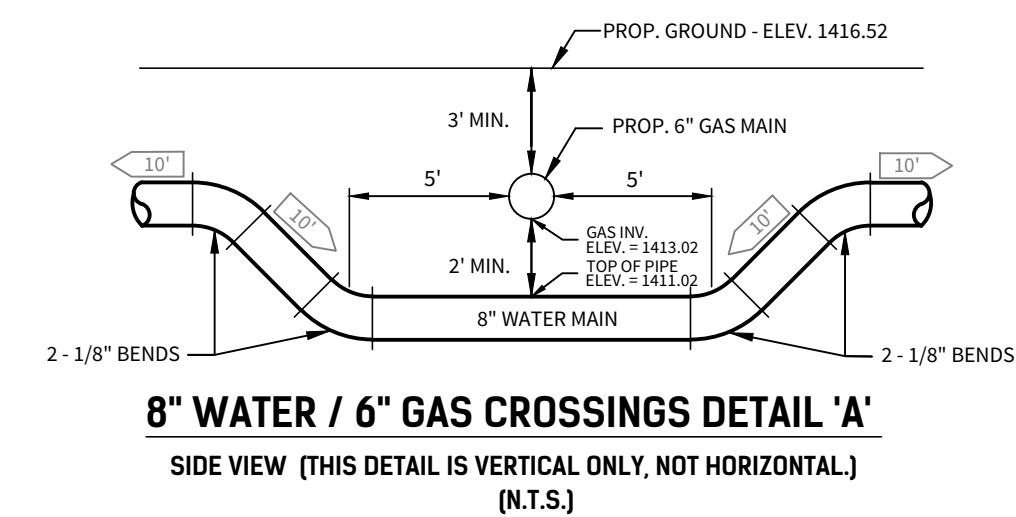
- Prior to tie-ins, any shutdowns of existing mains of any size must be coordinated with the SAWS Construction Inspection Division at least one week in advance of the shutdown. The Contractor must also provide a sequence of work as related to the tie-ins, this is at no additional cost to SAWS or the project and it is the responsibility of the Contractor to sequence the work accordingly. For water mains 12" or higher: SAWS Emergency Operations Center (210) 233-2014
- Asbestos Cement (AC) pipe, also known as transite pipe which is known to contain asbestoscontaining material (ACM), may be located within the project limits. Special waste management procedures and health and safety requirements will be applicable when removal and/or disturbance of this pipe occurs. Such work is to be made under Special Specification Item No. 3000, "Special Specification for Handling Asbestos Cement Pipe".
- Valve removal: Where the contractor is to abandon a water main, the control valve located on the abandoning branch will be removed and replaced with a cap/plug (NSP).
- Suitable anchorage/thrust blocking or joint restraint shall be provided at all of the following main locations: dead ends, plugs, caps, tees, crosses, valves, and bends, in accordance with the Standard Drawings DD-839 Series and Item No. 839, in the SAWS Standard Specifications for Construction.
- All valves shall read "open right".
- PRVs Required: Contractor to verify that no portion of the tract is below ground elevation of 1425 feet where the static pressure will normally exceed 80 PSI. At all such locations where the ground level is below 1425 feet, the Developer or Builder shall install at each lot, on the customer's side of the meter, an approved type pressure regulator in conformance with the Plumbing Code of the City of San Antonio. No dual services allowed for any lot(s) if "PRV is/are required for such lot(s), only single service connections shall be allowed. "Note: A pressure regulator is also known as a pressure reducing valve (PRV).
- Pipe Disinfection with Dry HTH for Projects less than 800 linear feet. (Item No. 347.3): Mains shall be disinfected with dry HTH where shown in the contract documents or as directed by the Inspector, and shall not exceed a total length of 800 feet. This method of disinfection will also be followed for main repairs. The Contractor shall utilize all appropriate safety measure to protect his personnel during disinfection operations.
- Backflow Prevention Devices:
 - All irrigation services within residential areas are required to have backflow prevention devices.
 - All commercial backflow prevention devices must be approved by SAWS prior to installation.
- Final connection to the existing water main shall not be made until the water main has been pressure tested, chlorinated, and SAWS has released the main for tie-in and use.
- All meters shall be 5/8", unless otherwise noted.
- All pipes shall be C-900, CLASS 235 DR 18, unless otherwise noted.

LEGEND

XXX L.F. - XX" PVC C-900 = PROPOSED WATER MAIN
X X = JOINT RESTRAINT

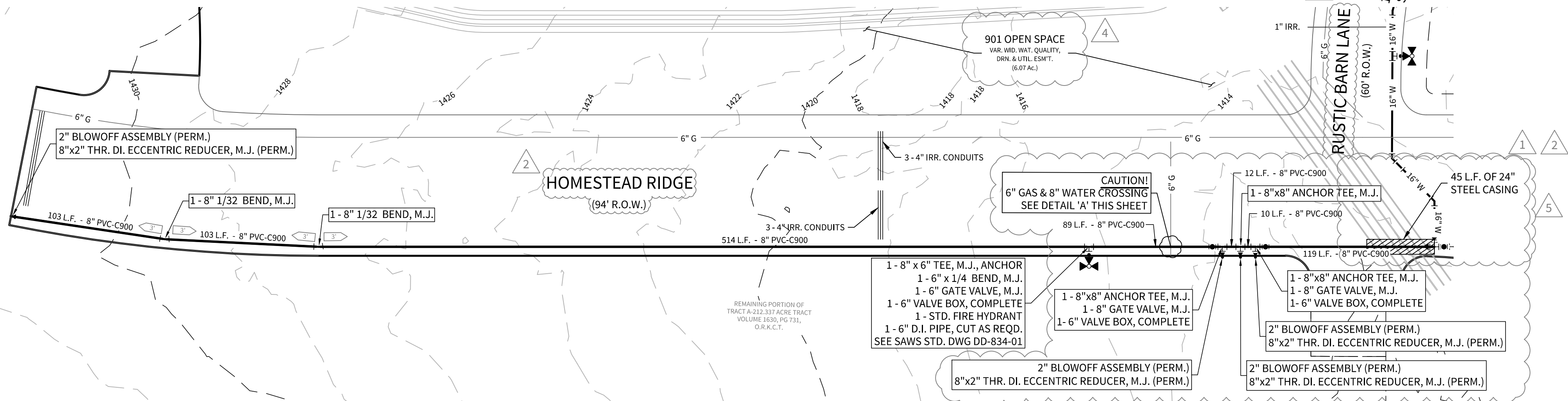
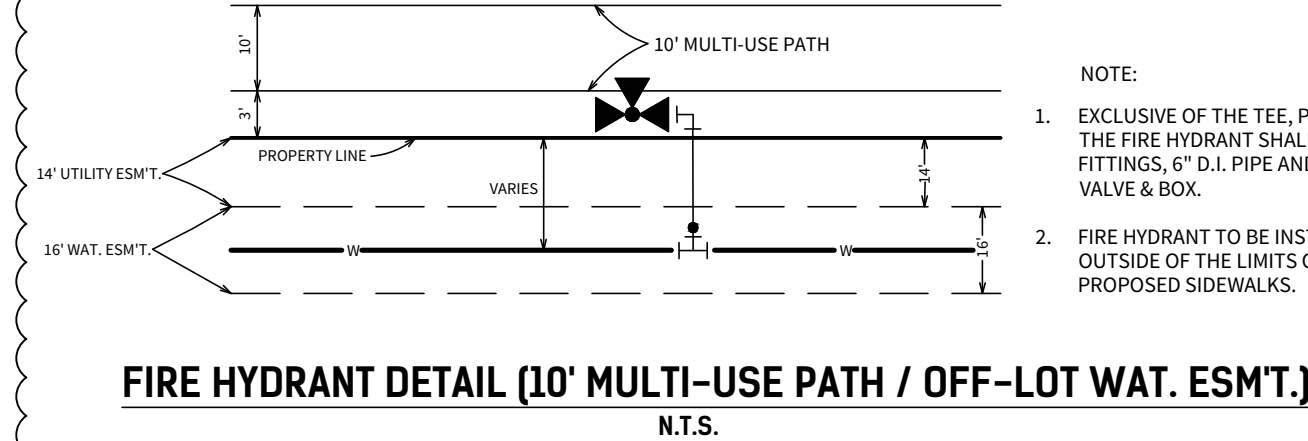
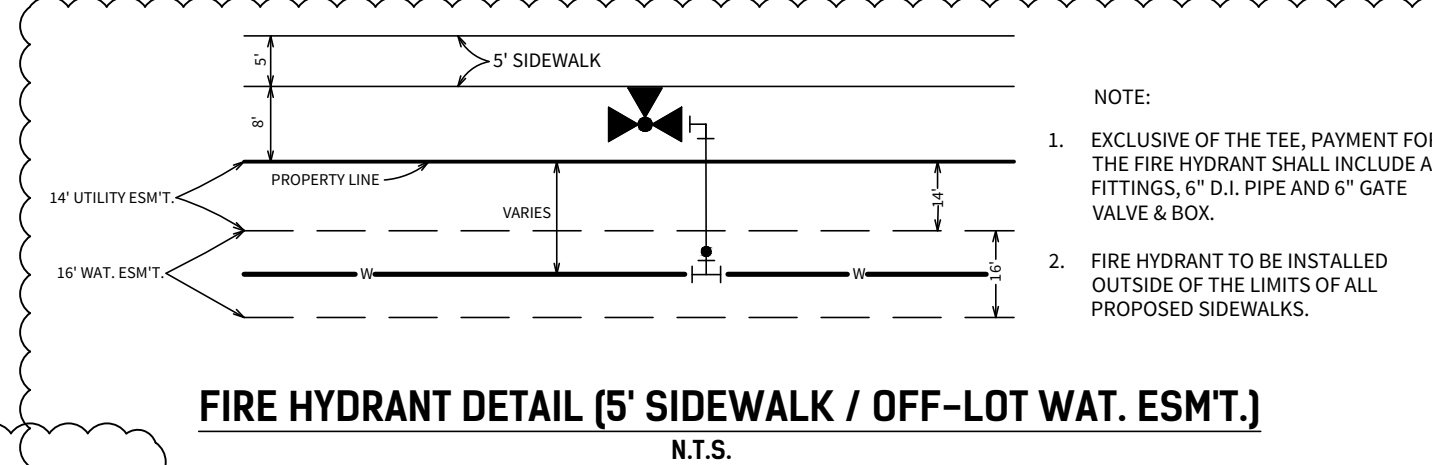
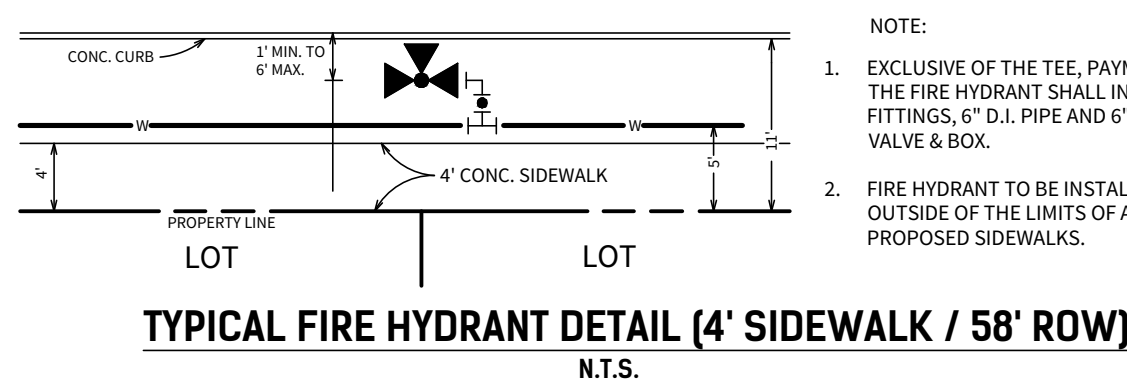
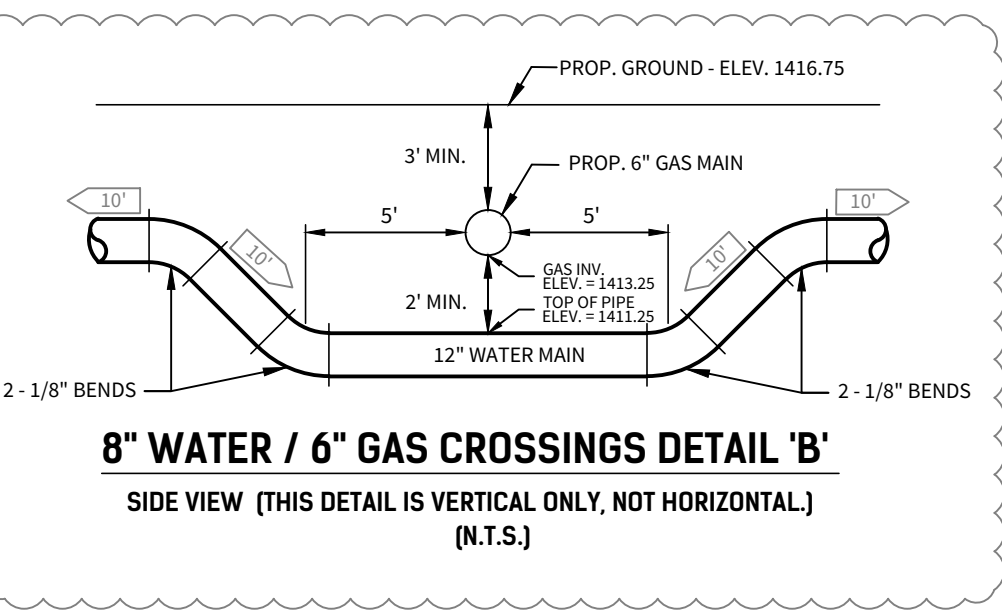
THRUST BLOCKING NOTE

ANCHORAGE/ THRUST BLOCKING AND JOINT RESTRAINTS SHALL BE DONE IN ACCORDANCE WITH SAWS STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION (ITEM NO. 839)

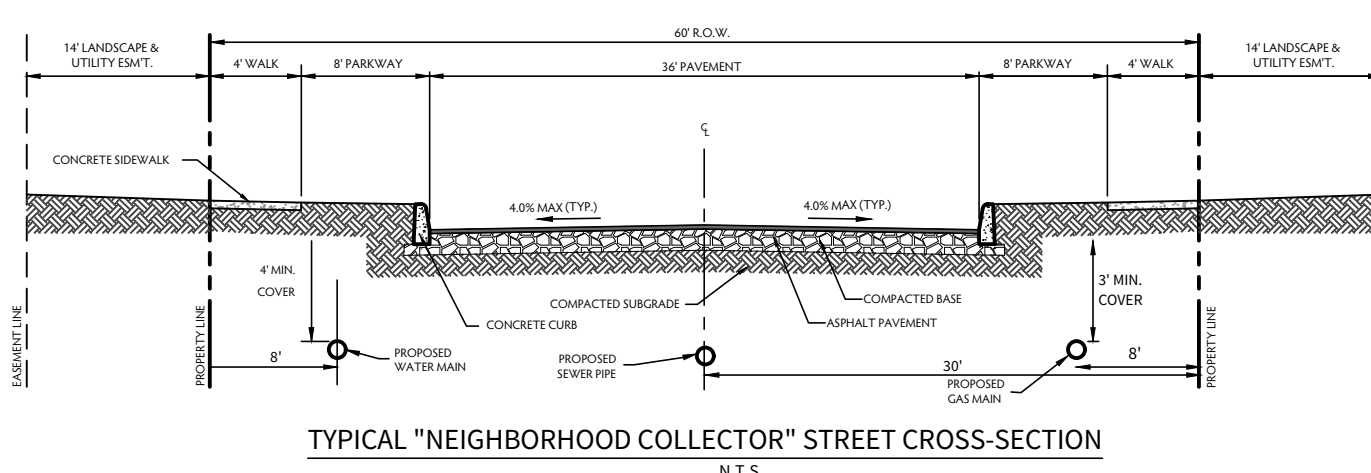
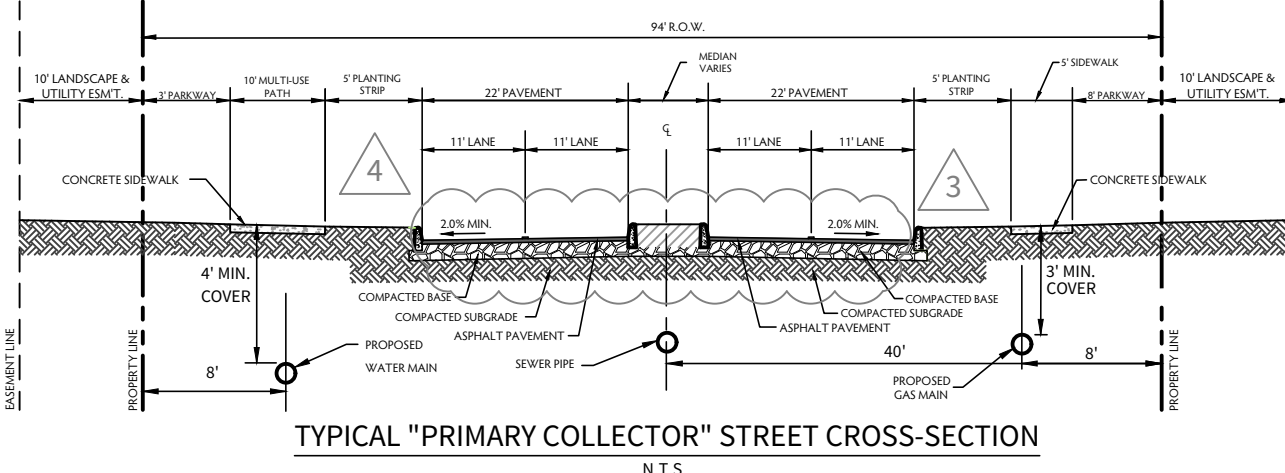
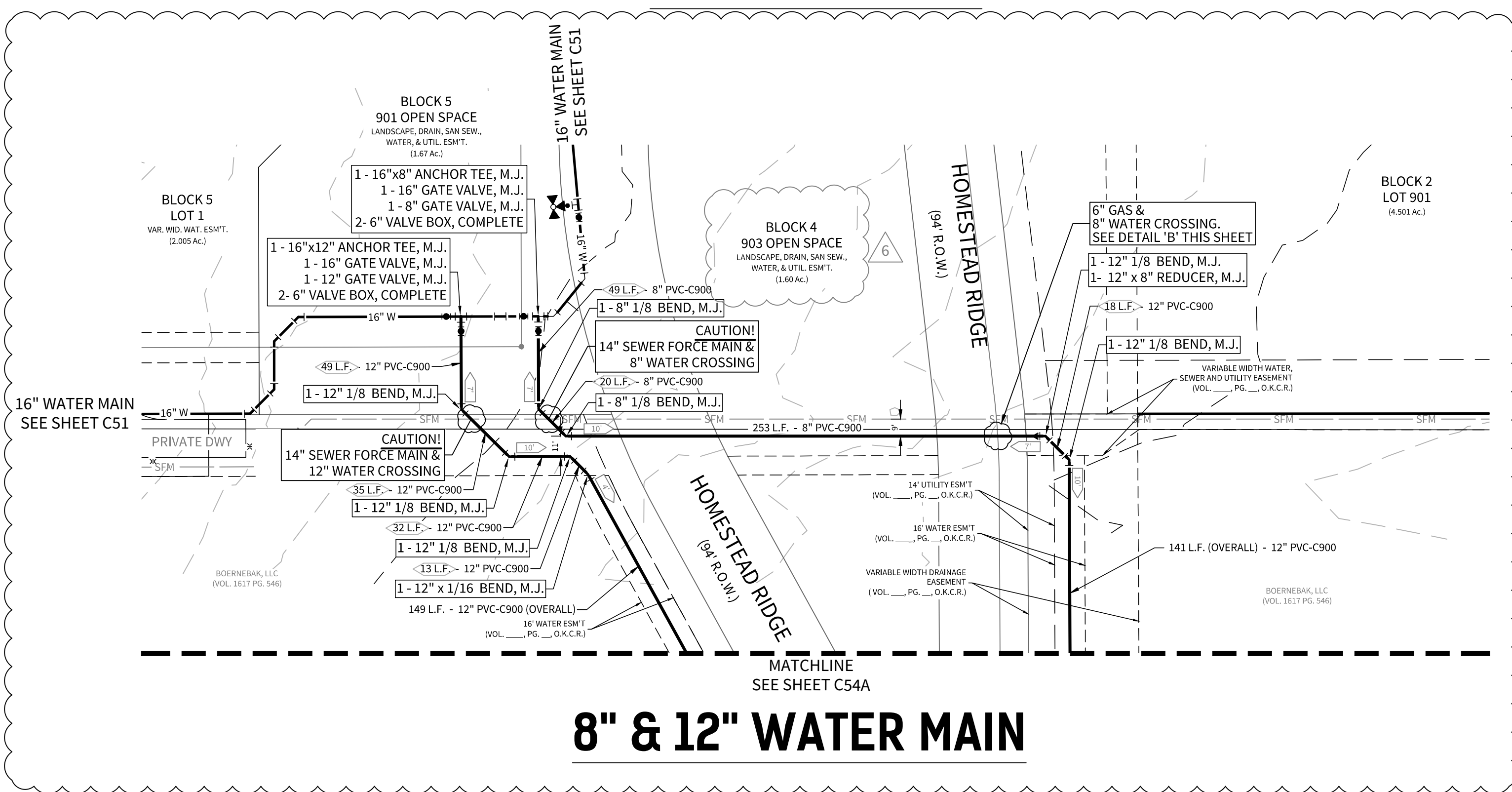


TRENCH EXCAVATION PROTECTION

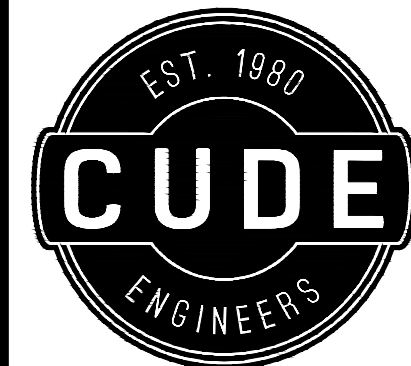
CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S 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.



8" WATER MAIN



PRESSURE ZONE 12					
Developer's Name	PULTE HOMES OF TEXAS, L.P.				
Developer's Address	1718 DRY CREEKWAY, SUITE 120				
City	SAN ANTONIO	State	TEXAS	Zip	78259
Phone #	(210) 496-1085	Fax #	(210) 496-0449		
SAWS Block Map #	N/A		Total EDU's	23	Total Acreage
Total Linear Footage of Pipe		8\"/>		Piat No. N/A (CORLEY FARMS UNIT 1 PLAT)	
Number of Lots		19		SAWS Job No. 21-1061	



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

CORLEY FARMS UNIT 1

WATER DISTRIBUTION PLAN

DATE
02/13/2023

PROJECT NO.
03481.004

DRAWN BY
C3

CHECKED BY
XV/JC/DCC

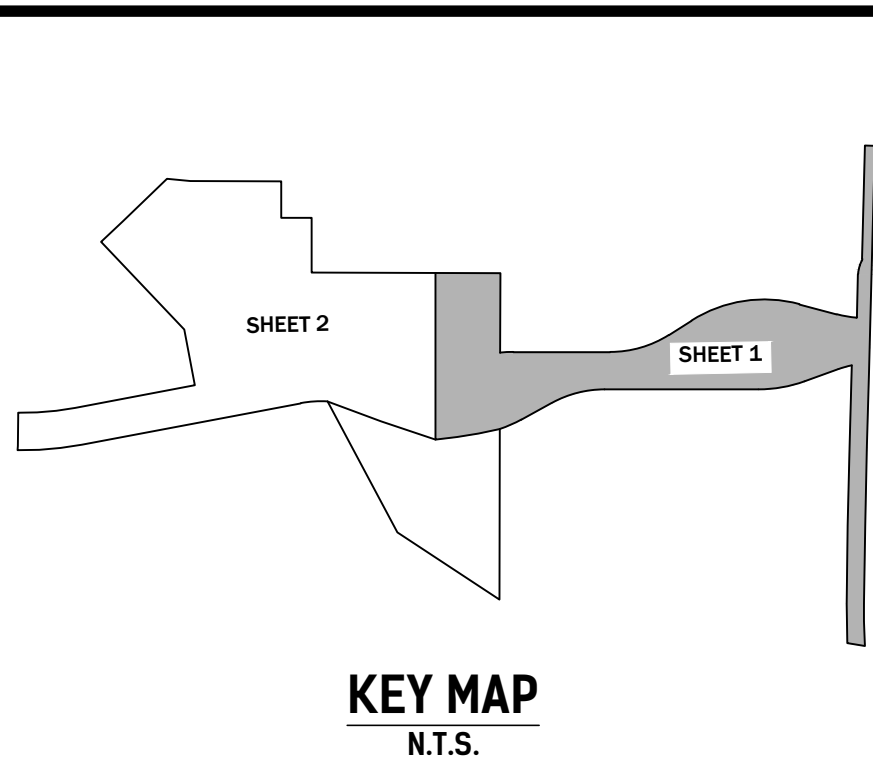
REVISIONS

- 2021-05-13 - SAWS COMMENTS
- 2021-06-10 - SAWS COMMENTS
- 2021-10-07 - CITY OF BOERNE COMMENTS
- 2021-11-12 - CITY OF BOERNE COMMENTS
- 2022-03-31 - WATER MAIN EXTENSION
- 2022-08-03 - OPEN SPACE UPDATE, SEWER AND WATER EXTENSION, UPDATED SANS BLOCK
- 2022-10-05 - REVISED 8\"/>
- 2023-01-23 - REVISED PIPE DIAMETER SIZE
- 2023-02-13 - LOOPED 8\"/>



02/13/2023
CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C54



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

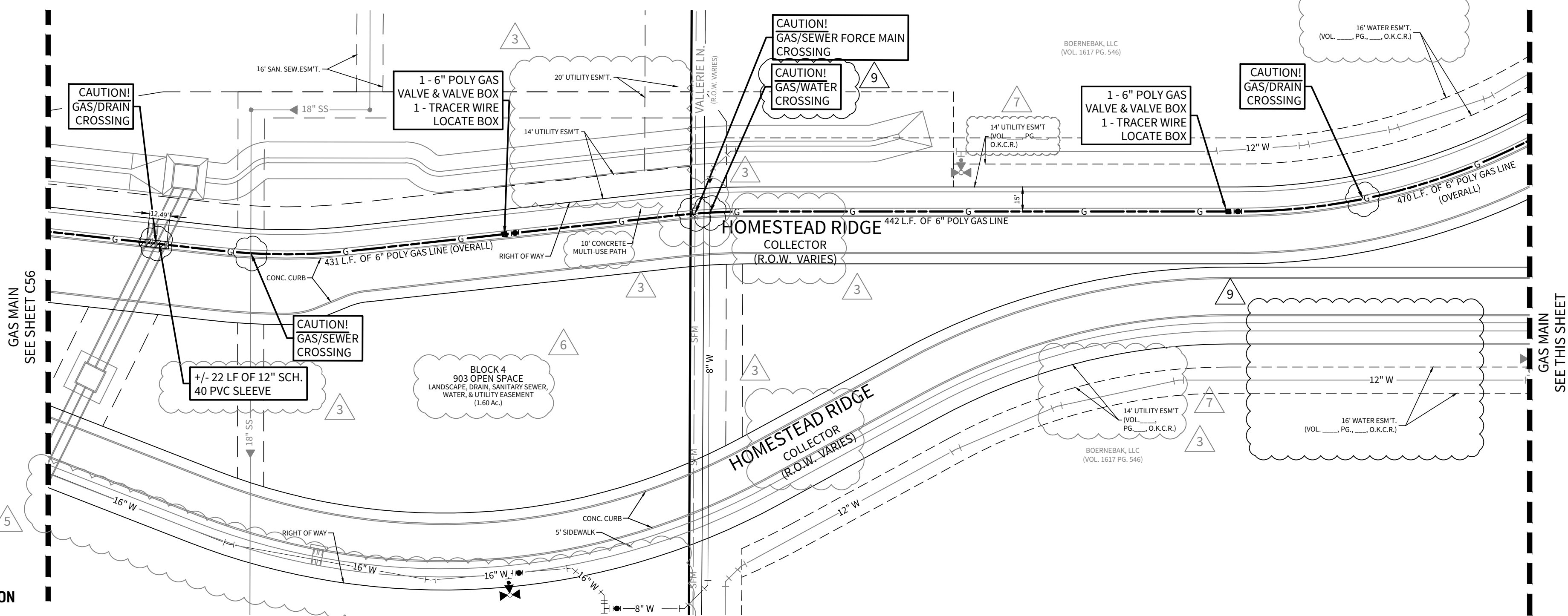
1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL CONFORM TO ALL APPLICABLE CITY OF BOERNE STANDARD SPECIFICATIONS FOR PUBLIC UTILITIES AND CONSTRUCTION LATEST EDITIONS, AS WELL AS OTHER SAFETY CODES AND INSPECTION PROVISIONS APPLICABLE TO THE PROJECT.
2. ALL GAS DISTRIBUTION LINES SHALL BE YELLOW DR-11 POLYETHYLENE PIPE MEETING ASTM D3535, BY PERFORMANCE PIPE, DISCOPLEX 6500 WITH NO SUBSTITUTIONS.
3. ALL MAINS SHALL BE CLEAR OF ALL FOREIGN MATERIAL BLOWN WITH DIRT COMPRESSED AIR AND PRESSURED TESTED AS PER THE CITY OF BOERNE'S STANDARD SPECIFICATIONS.
4. FOR PURPOSES OF RECORD DRAWINGS FOR THE CITY OF BOERNE, THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL THE FINAL MEASUREMENTS, TAPS, AND LENGTH OF SERVICE CONNECTIONS.
5. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION, ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
6. ALL GARBAGE OR SPILL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT THEIR EXPENSE.
7. FINAL CONNECTION TO THE EXISTING GAS MAIN SHALL NOT BE MADE UNTIL THE MAIN HAS BEEN PRESSURE TESTED AND APPROVED FOR CONNECTION BY THE CITY OF BOERNE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
9. ALL ITEMS NOT SPECIFICALLY CALLED FOR ON THE PLANS, OR IN THE SPECIFICATIONS, BUT NECESSARY TO REASONABLY CONSTRUCT THE FACILITY OR IMPROVEMENT, SHALL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT AND NO SEPARATE PAYMENTS WILL BE MADE FOR THESE ITEMS.
10. DEPTH OF BURY FOR ALL GAS PIPING SHALL BE A MINIMUM OF 3' UNLESS OTHERWISE NOTED OR APPROVED BY THE CITY OF BOERNE.
11. CONTRACTOR TO GRADE SITE TO WITHIN +/- 0.10' BEFORE THE INSTALLATION OF UTILITIES TO ENSURE PROPER COVER IS ACHIEVED.
12. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT.
13. THE CONTRACTOR SHALL NOTIFY THE GOVERNMENTAL, AND/OR UTILITY COMPANIES REGARDING THE LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.
14. THE CONTRACTOR SHALL EXCAVATE AROUND EXISTING UTILITIES WHICH INTERFERE WITH PROPOSED ALIGNMENT OF THE PROJECT AND NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS PRIOR TO ANY CONSTRUCTION IN THE AREA.
15. UTILITY TRENCH COMPACTION SHALL BE ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET RIGHT-OF-WAY SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED EIGHT INCHES (8") DEEPS. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR ASTM D1557 AND SPECIFIED AND APPROVED IN ACCORDANCE WITH THE CITY OF BOERNE'S PROJECT SPECIFICATION - SECTION 02221.

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.

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 SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTORS' TRENCH EXCAVATION SAFETY PROGRAM 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 CONSULTANT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL INDIVIDUALS WORKING IN THE STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

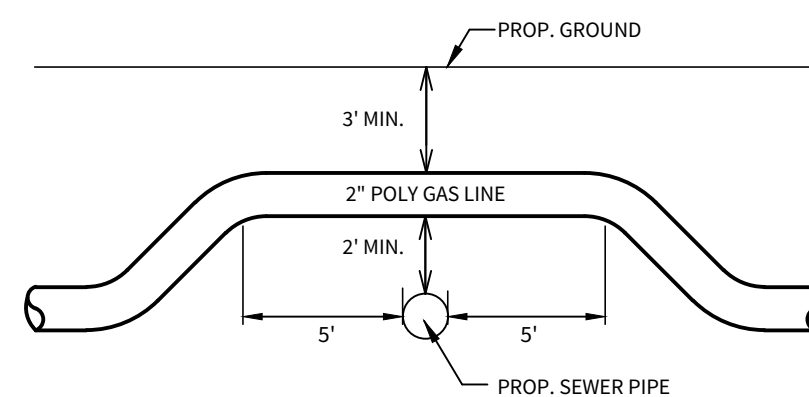


CORLEY FARMS UNIT 1 - GAS DISTRIBUTION
ESTIMATED QUANTITY TAKE-OFF
 (CONTRACTOR RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES REQUIRED)

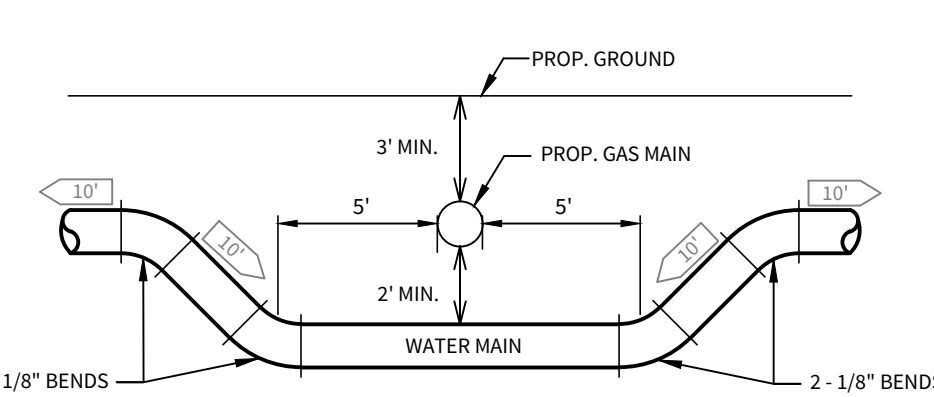
Item No.	Description	Quantity	Units	Installation Responsibility
1	6" Poly Gas Main - Open Cut	3,228	LF	Contractor
2	4" Poly Gas Main - Open Cut	555	LF	Contractor
3	2" Poly Gas Main - Open Cut	703	LF	Contractor
4	1" Gas Service, see Gas Service Detail (Long)	5	EA	Contractor
5	1" Gas Service, see Gas Service Detail (Short)	11	EA	Contractor
6	2" Gas Valve & Box	4	EA	Contractor
7	4" Gas Valve & Box	3	EA	Contractor
8	6" Gas Valve & Box	15	EA	Contractor
9	2" x 2" Poly Tee	1	EA	Contractor
10	6" x 4" Poly Tee	1	EA	Contractor
11	6" x 6" Poly Tee	2	EA	Contractor
12	4" x 4" Poly Cross	1	EA	Contractor
13	2" Poly Cap	1	EA	Contractor
14	4" Poly Cap	1	EA	Contractor
15	6" Poly Cap	3	EA	Contractor
16	6" Connection to Existing Main	2	LS	City of Boerne
17	Testing as required by City of Boerne	1	LS	Contractor

NOTES: NOTE: VERTICAL BEND IS NOT NEEDED WHEN SEWER IS DEEPER THAN 7'

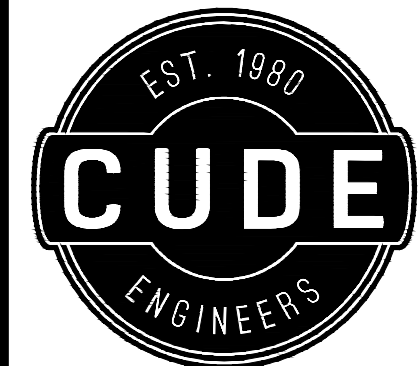
1. Estimated conduit quantities shown are linear footage.
2. It is the responsibility of the Contractor to verify all quantities shown hereon and to notify the Engineer of any discrepancies prior to bid submission.



SEWER / GAS CROSSINGS DETAIL
SIDE VIEW (THIS DETAIL IS VERTICAL ONLY, NOT HORIZONTAL.)
(N.T.S.)



WATER / GAS CROSSINGS DETAIL
SIDE VIEW (THIS DETAIL IS VERTICAL ONLY, NOT HORIZONTAL.)
(N.T.S.)



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F: (210) 523.7112

CORLEY FARMS
UNIT 1

GAS DISTRIBUTION PLAN

DATE
02/14/2023

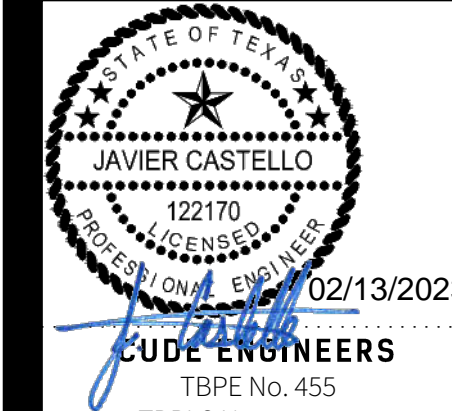
PROJECT NO.
03481.004

DRAWN BY
C3

CHECKED BY
XV/JC/DDC

REVISIONS

- 1.
- 2.
3. 2021-10-07 - CITY OF BOERNE COMMENTS
4. 2021-11-12 - CITY OF BOERNE COMMENTS
5. 2022-01-14 - EASEMENT UPDATES
- 6.
7. 2022-08-25 - EASEMENT UPDATES, ADDED GAS LINE, ADDED SEWER, ADDED WATER LINE, UPDATED QUANTITY LABEL, ADDED "CAUTION" LABELS.
8. 2022-10-05 - REVISED 8" WATER MAIN LAYOUT & ADDED 16" WATER EASEMENT
9. 2023-02-13 - ADDED 8" & 12" WATER MAIN LOOP.



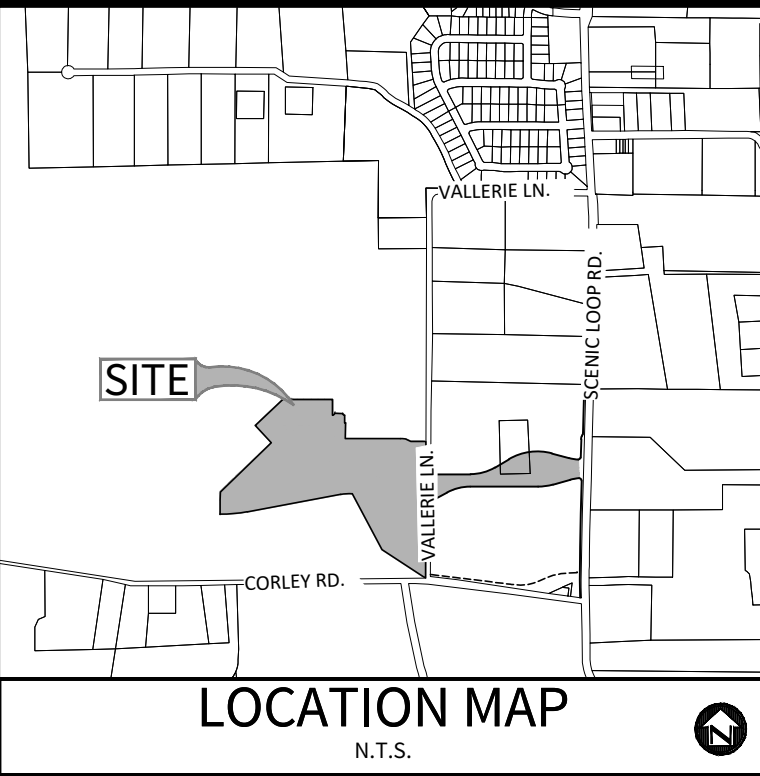
02/13/202

TALENT ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C55

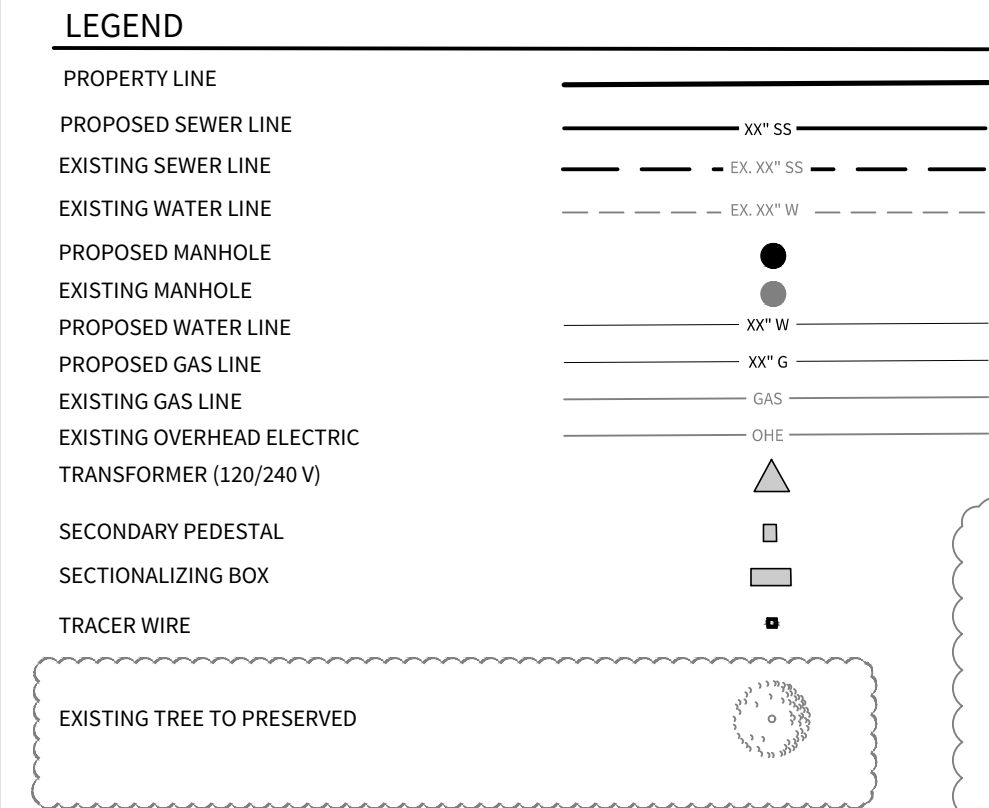
1 OF 3

© 2022 M.W. CUDE ENGINEERS, L.L.C. - THIS DOCUMENT, ANY PORTION THEREOF, AND ANY ASSOCIATED COPYRIGHTS SHALL REMAIN THE PROPERTY OF M.W. CUDE ENGINEERS, L.L.C. THIS DOCUMENT MAY NOT BE REPRODUCED, USED, OR DISTRIBUTED IN ANY FORM OR BY ANY MEANS TO ANYONE FOR ANY OTHER ENDORSEMENT WITHOUT THE PRIOR WRITTEN CONSENT OF M.W. CUDE ENGINEERS, L.L.C. THIS DOCUMENT IS NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR USE OTHER THAN AS ORIGINALLY INTENDED BY M.W. CUDE ENGINEERS, L.L.C. AND ANY UNAUTHORIZED REPRODUCTION, USE, OR DISTRIBUTION OF THIS DOCUMENT WILL BE AT THE USER'S SOLE RISK, WITHOUT ANY LIABILITY TO M.W. CUDE ENGINEERS, L.L.C. AND WILL BE USED AGAINST ANY AND ALL PARTIES TO THE FULLEST EXTENT PERMITTED BY LAW.



OWNER/DEVELOPER:
PULTE HOMES OF TEXAS, L.P.
CONTACT PERSON: FELIPE GONZALEZ
1718 DRY CREEK WAY, SUITE 120
SAN ANTONIO, TX 78259
TEL: (210) 818-7104
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



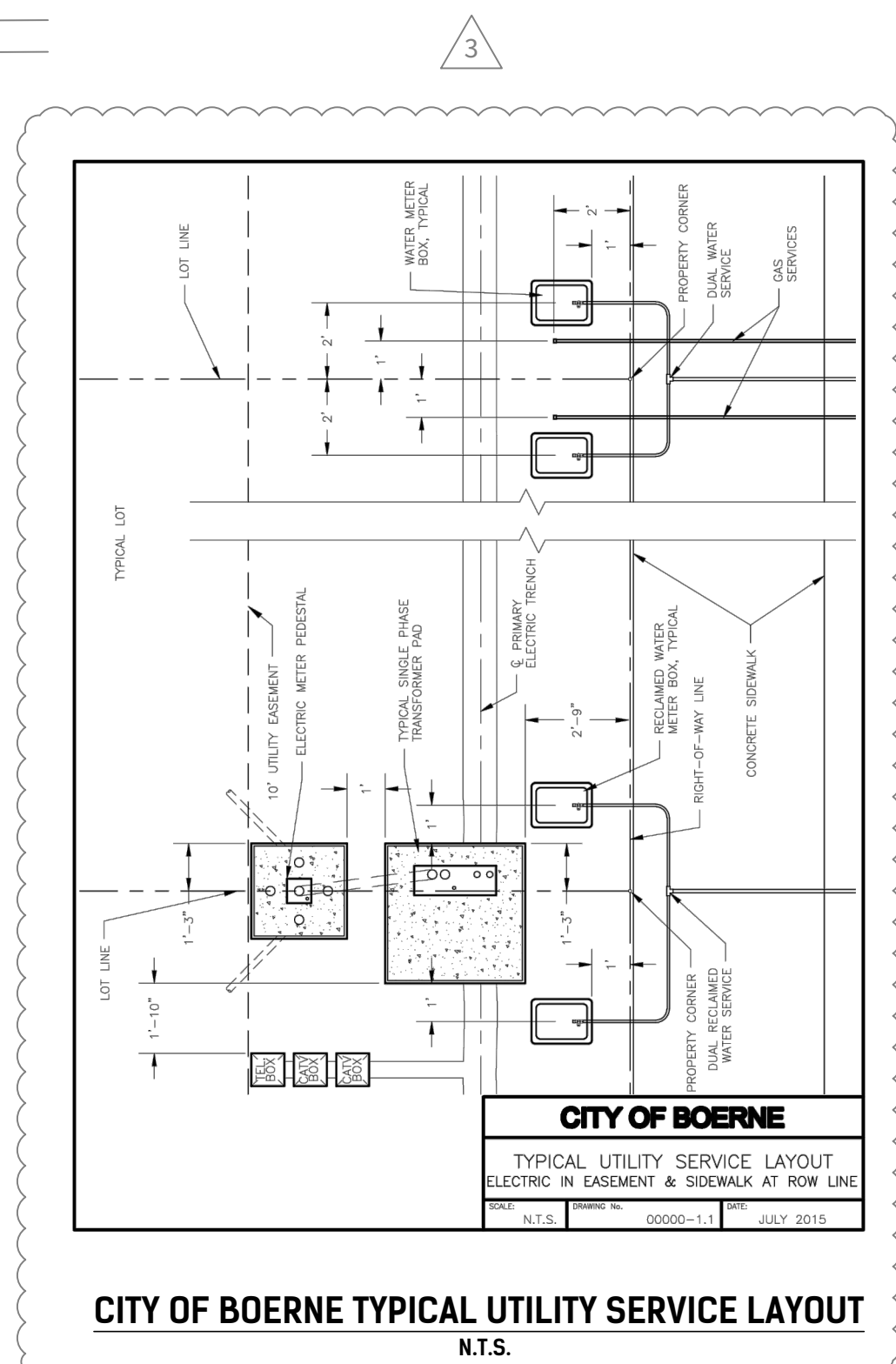
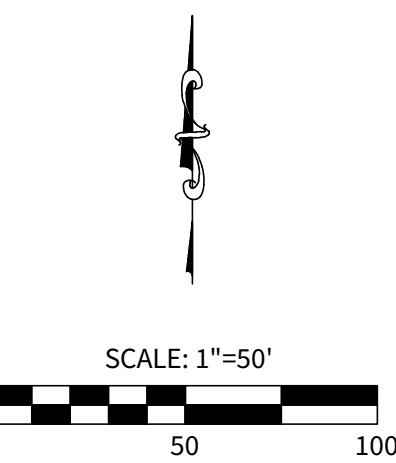
BENCHMARK BM-1
BENCHMARK TO BE SET BY ENGINEER PRIOR TO CONSTRUCTION.

- NOTES:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 98% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE SAW'S INSPECTOR/TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 40 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
 - CONTRACTOR TO MAINTAIN A MINIMUM 1' VERTICAL SEPARATION DISTANCE BETWEEN OF THE BOTTOM PROPOSED WATER MAIN AND TOP OF PROPOSED SANITARY SEWER MAIN AT WATER AND SANITARY SEWER CROSSINGS.
 - ALL LATERALS SHALL BE INSTALLED AT A MINIMUM 2.0% SLOPE UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO REFERENCE SANITARY SEWER, WATER, AND GAS PLANS FOR ALL UTILITY CROSSINGS CALLED OUT ON THIS SHEET.
 - REFERENCE ELECTRICAL PLANS FOR LOCATIONS OF PRIMARY CONDUITS, SECONDARY CONDUITS, & STREETLIGHTS.

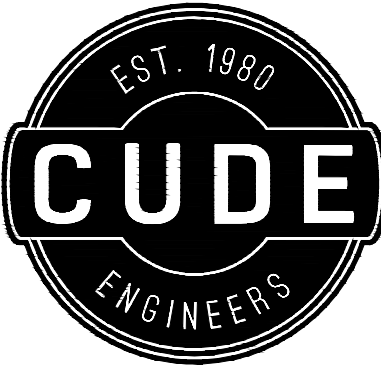
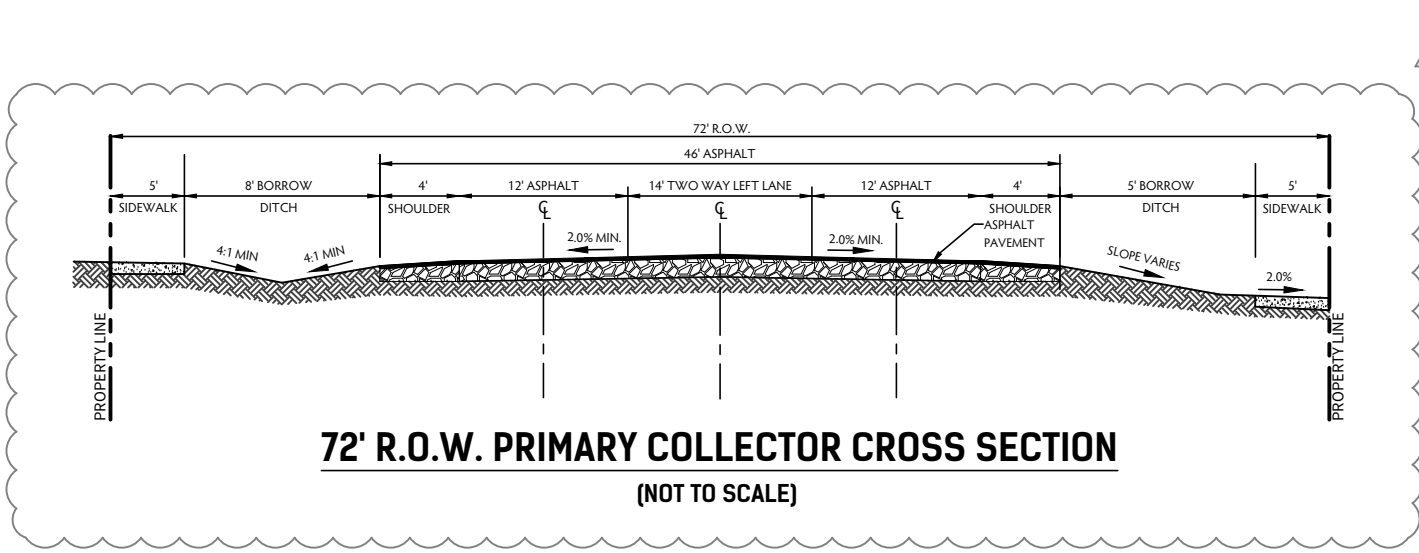
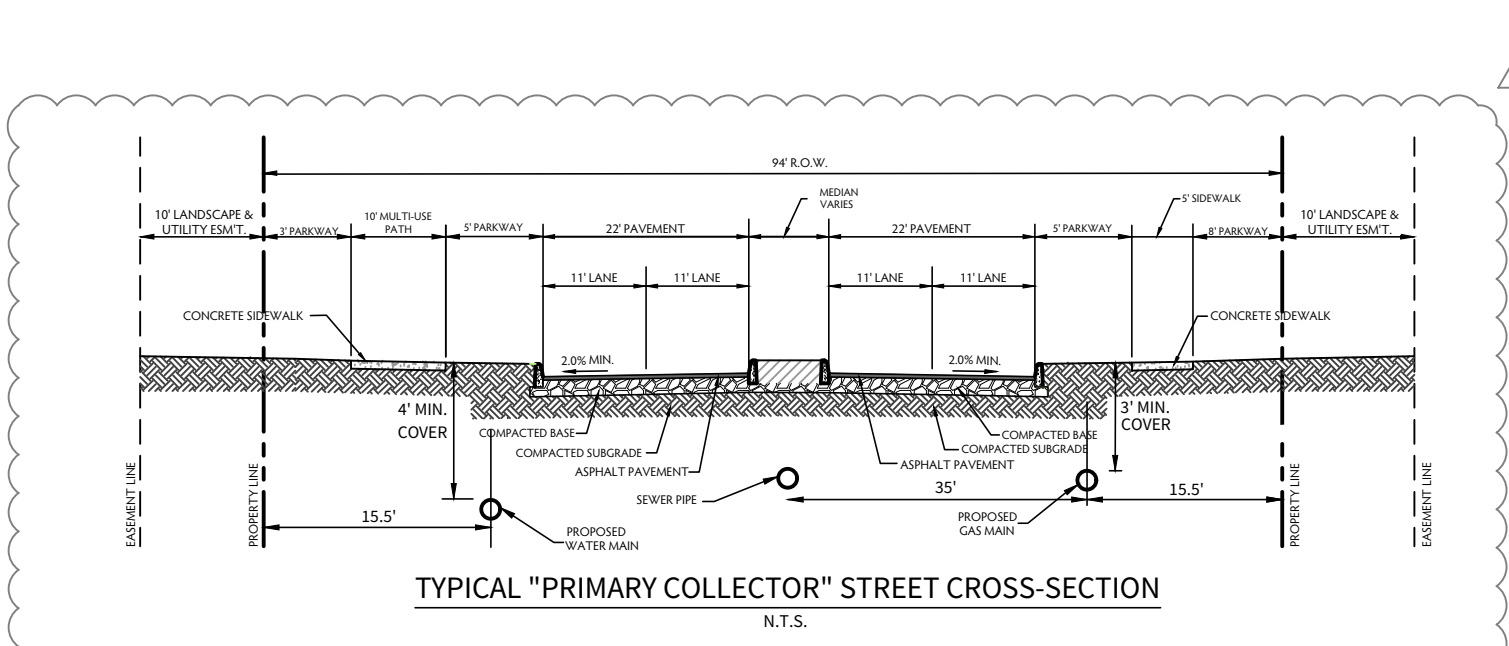
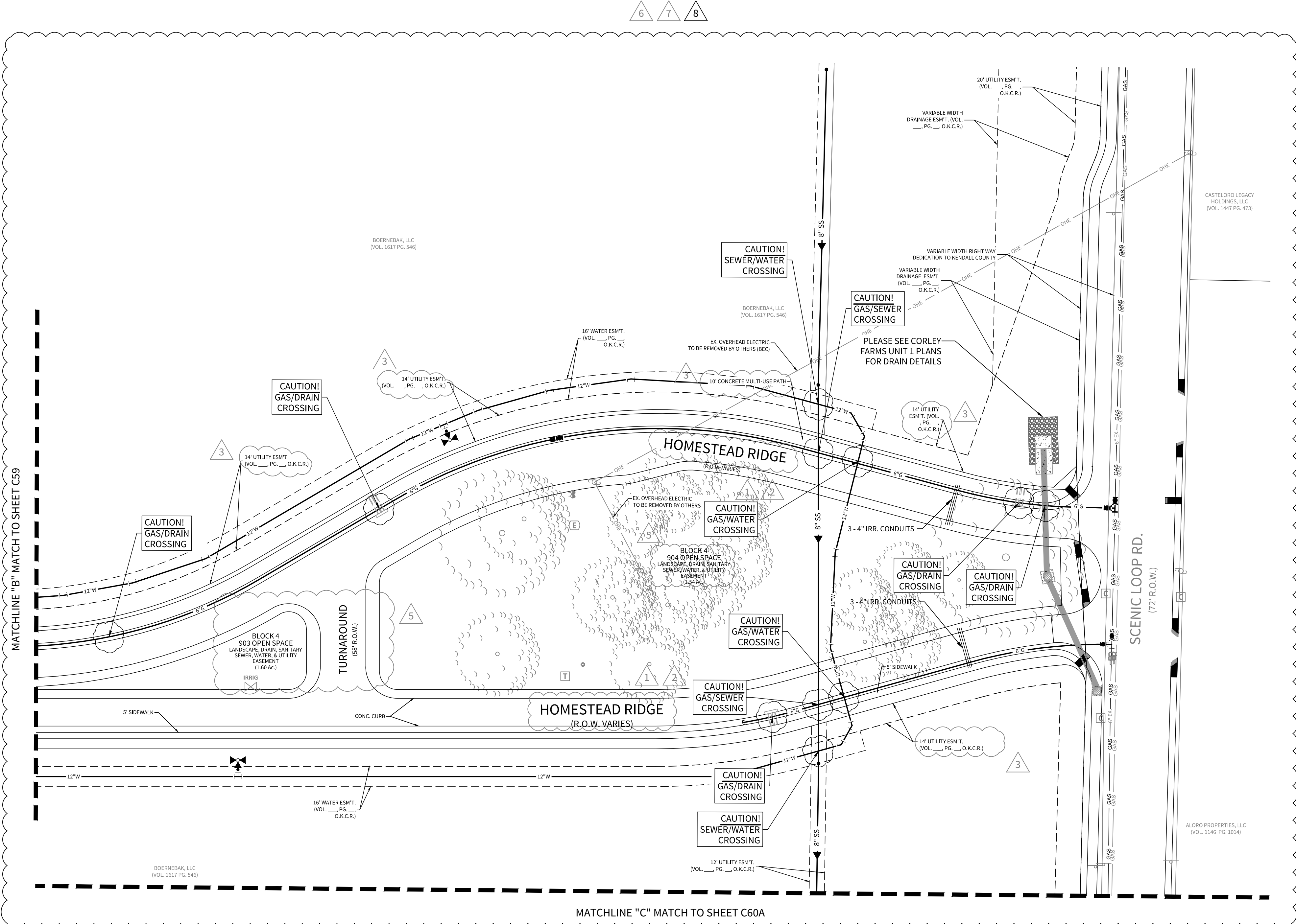
CAUTION!!
EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO CORROBORATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE 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 SITE(S) 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.



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



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F:(210) 523.7112

**CORLEY FARMS
UNIT 1**
UTILITY LAYOUT PLAN

DATE
02/14/2023

PROJECT NO.
03481.004

DRAWN BY
C3

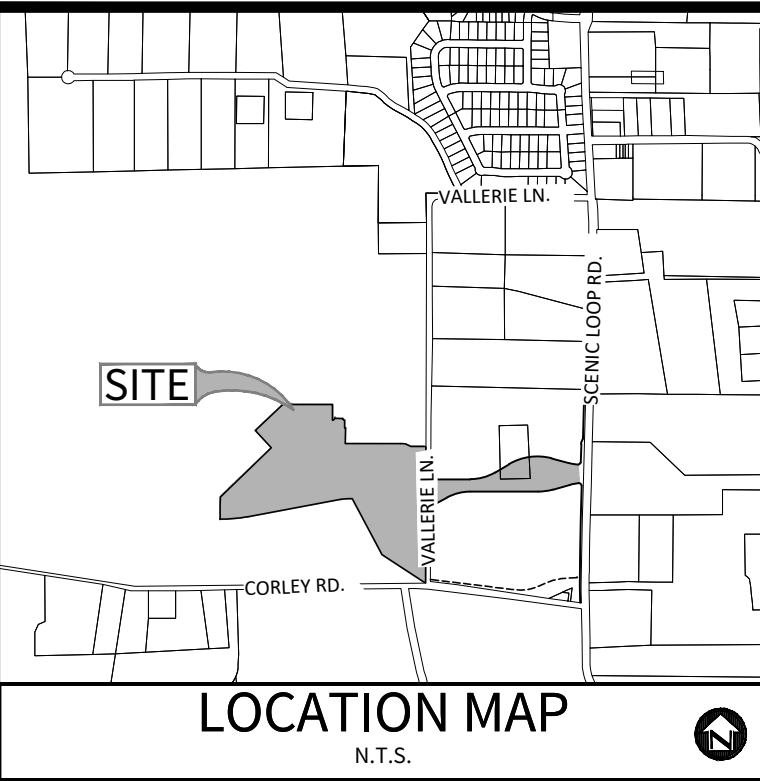
CHECKED BY
XV/JC/DDC

- REVISIONS**
- 2023-05-20 - CDB COMMENTS
 - 2023-06-17 - CDB COMMENTS
 - 2023-10-07 - CITY OF BOERNE COMMENTS
 - 2023-11-12 - CITY OF BOERNE COMMENTS
 - 2022-08-03 - ADDED TURNAROUND STREET
 - 2022-08-15 - OPEN SPACE UPDATE, SEWER AND WATER EXTENSION, ADDED EXISTING TREES
 - 2022-10-05 - REVISED 6" WATER MAIN LAYOUT & ADDED 16" WATER EASEMENT
 - 2023-02-13 - ADDED 8" & 12" WATER MAIN LOOP
 -

STATE OF TEXAS
JAVIER CASTELLO
122170
PROFESSIONAL ENGINEER
02/13/2023
CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

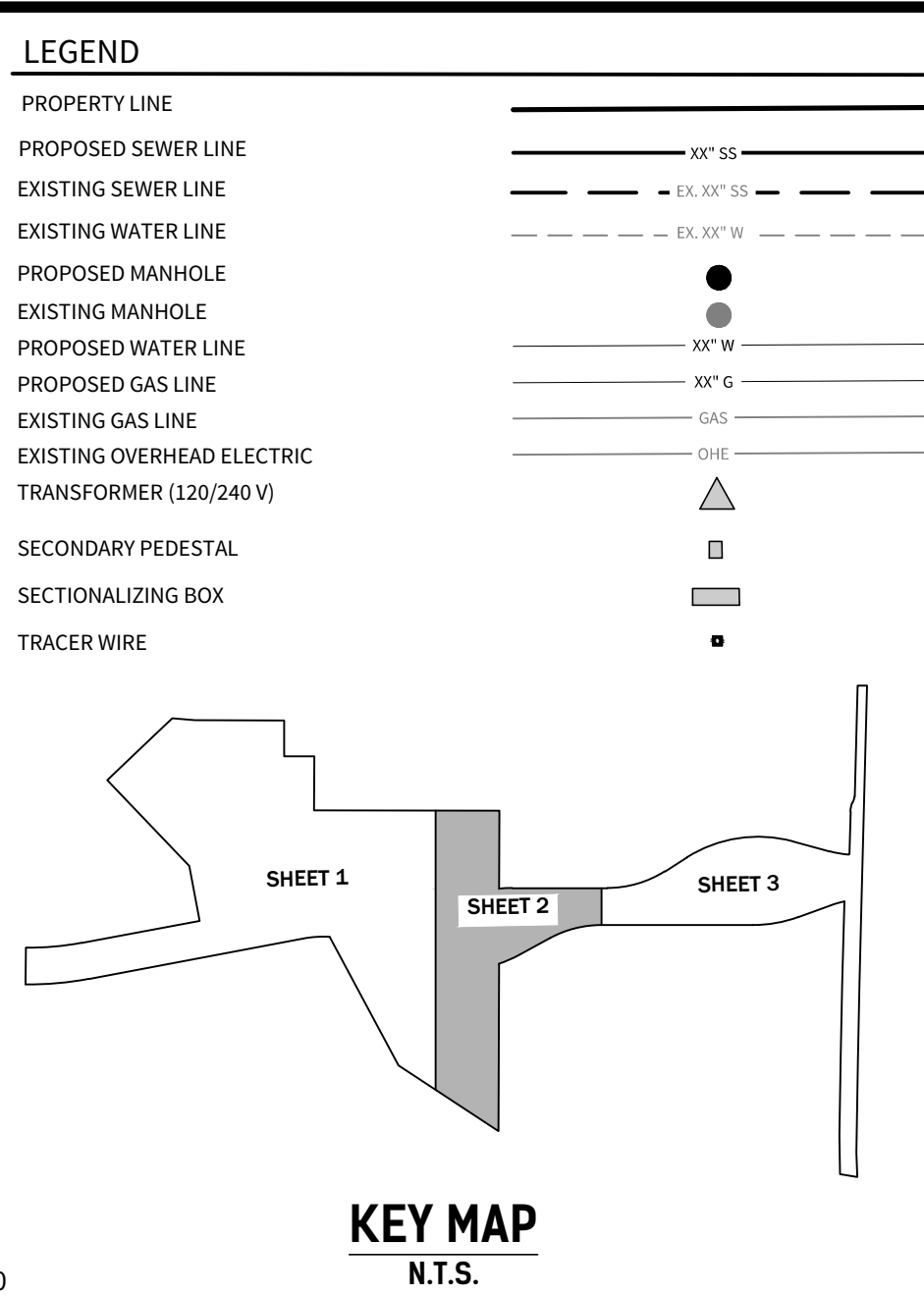
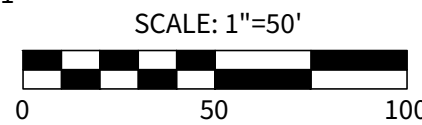
C58

© 2022 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 FOR ANY OTHER ENDORSEMENT WITHOUT THE PRIOR WRITTEN CONSENT OF, AND ADAPTATION BY, M.W. CUDE ENGINEERS, LLC. THIS DOCUMENT IS NOT INTENDED 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 AT THE INFRINGING PARTY'S SOLE RISK, WITHOUT ANY LIABILITY TO M.W. CUDE ENGINEERS, LLC, AND WILL BE USED AGAINST ANY AND ALL PARTIES TO THE FULLEST EXTENT PERMITTED BY LAW.

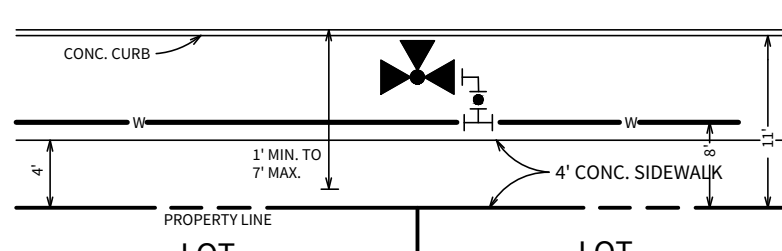


OWNER/DEVELOPER:
PULTE HOMES OF TEXAS, L.P.
CONTACT PERSON: FELIPE GONZALEZ
1718 DRY CREEK WAY, SUITE 120
SAN ANTONIO, TX 78259
TEL: (210) 818-7104
FAX: (210) 496-0449

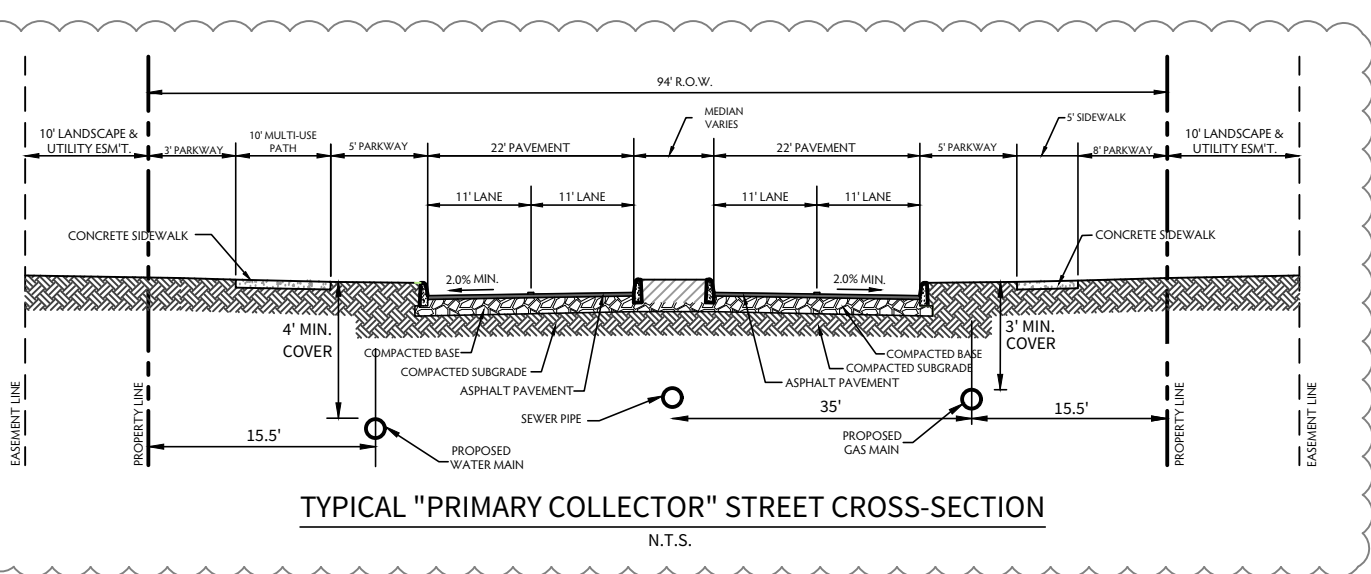
CIVIL ENGINEER:
M.W. CUDE ENGINEERS, L.L.C.
CONTACT PERSON: DAVID D. CUPIT II, P.E.
4122 POND HILL ROAD, SUITE 101
SAN ANTONIO, TX 78231
TEL: (210) 681-2951
FAX: (210) 523-7112



- NOTE:**
- EXCLUSIVE OF THE TEE, PAYMENT FOR THE FIRE HYDRANT SHALL INCLUDE ALL FITTINGS, 6" D.I. PIPE AND 6" GATE VALVE & BOX.
 - FIRE HYDRANT TO BE INSTALLED OUTSIDE OF THE LIMITS OF ALL PROPOSED SIDEWALKS.



TYPICAL FIRE HYDRANT DETAIL (4' SIDEWALK / 58' ROW)
N.T.S.



BENCHMARK BM-1

BENCHMARK TO BE SET BY ENGINEER PRIOR TO CONSTRUCTION.

NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING 90% COMPACTION ON ALL TRENCH BACKFILL AND PAYING FOR THE TESTS TO BE PERFORMED BY A THIRD PARTY. COMPACTION TEST WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED OR AS INDICATED BY THE SAMS INSPECTOR/TEST ADMINISTRATOR PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAMS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.
- CONTRACTOR TO MAINTAIN A MINIMUM 1' VERTICAL SEPARATION DISTANCE BETWEEN OF THE BOTTOM PROPOSED WATER MAIN AND TOP OF PROPOSED SANITARY SEWER MAIN AT WATER AND SANITARY SEWER CROSSINGS.
- ALL LATERALS SHALL BE INSTALLED AT A MINIMUM 2.0% SLOPE UNLESS OTHERWISE NOTED.
- CONTRACTOR TO REFERENCE SANITARY SEWER, WATER, AND GAS PLANS FOR ALL UTILITY CROSSINGS CALLED OUT ON THIS SHEET.
- REFERENCE ELECTRICAL PLANS FOR LOCATIONS OF PRIMARY CONDUITS, SECONDARY CONDUITS, & STREETLIGHTS.

CAUTION!!

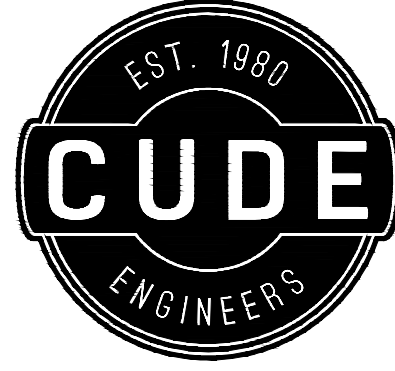
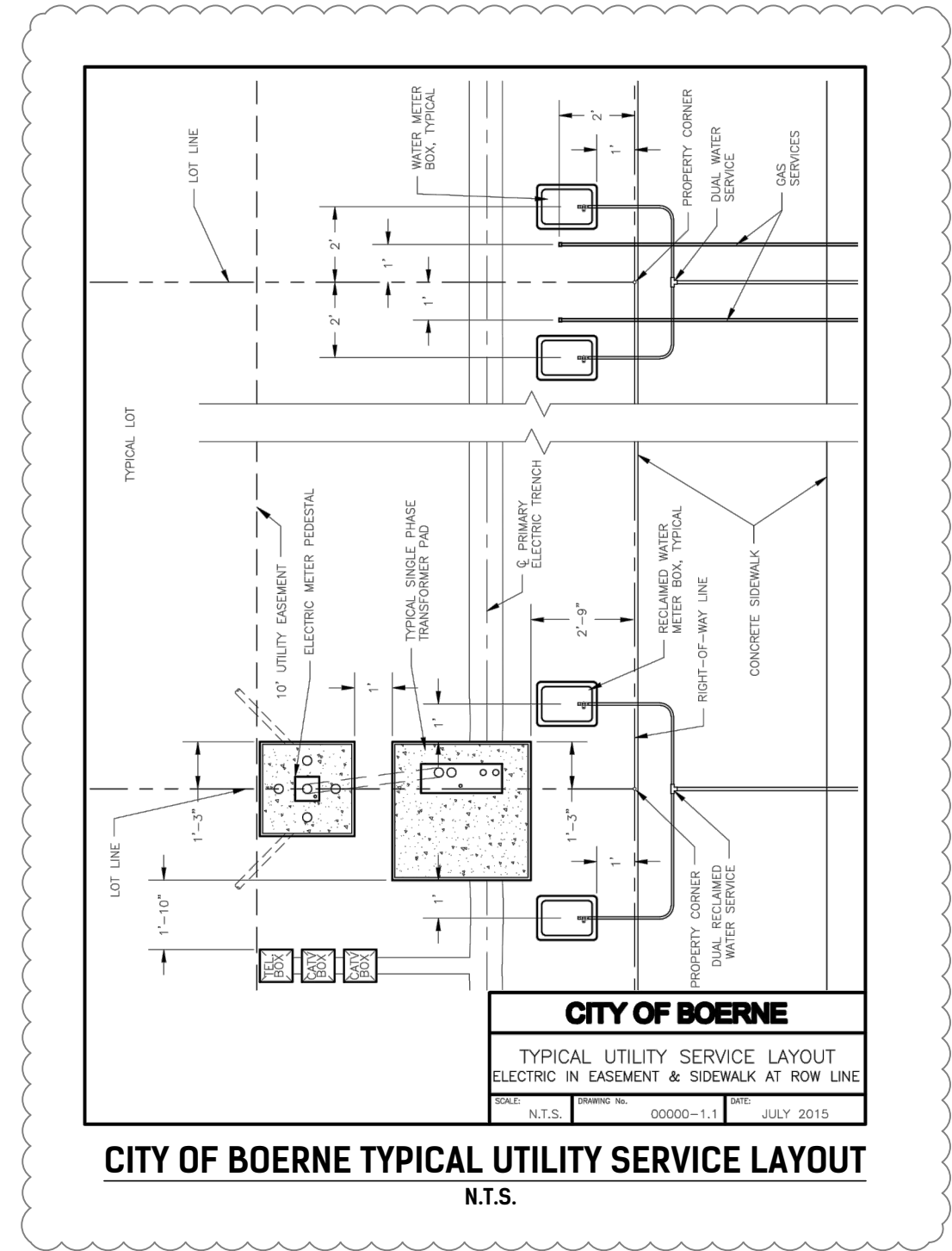
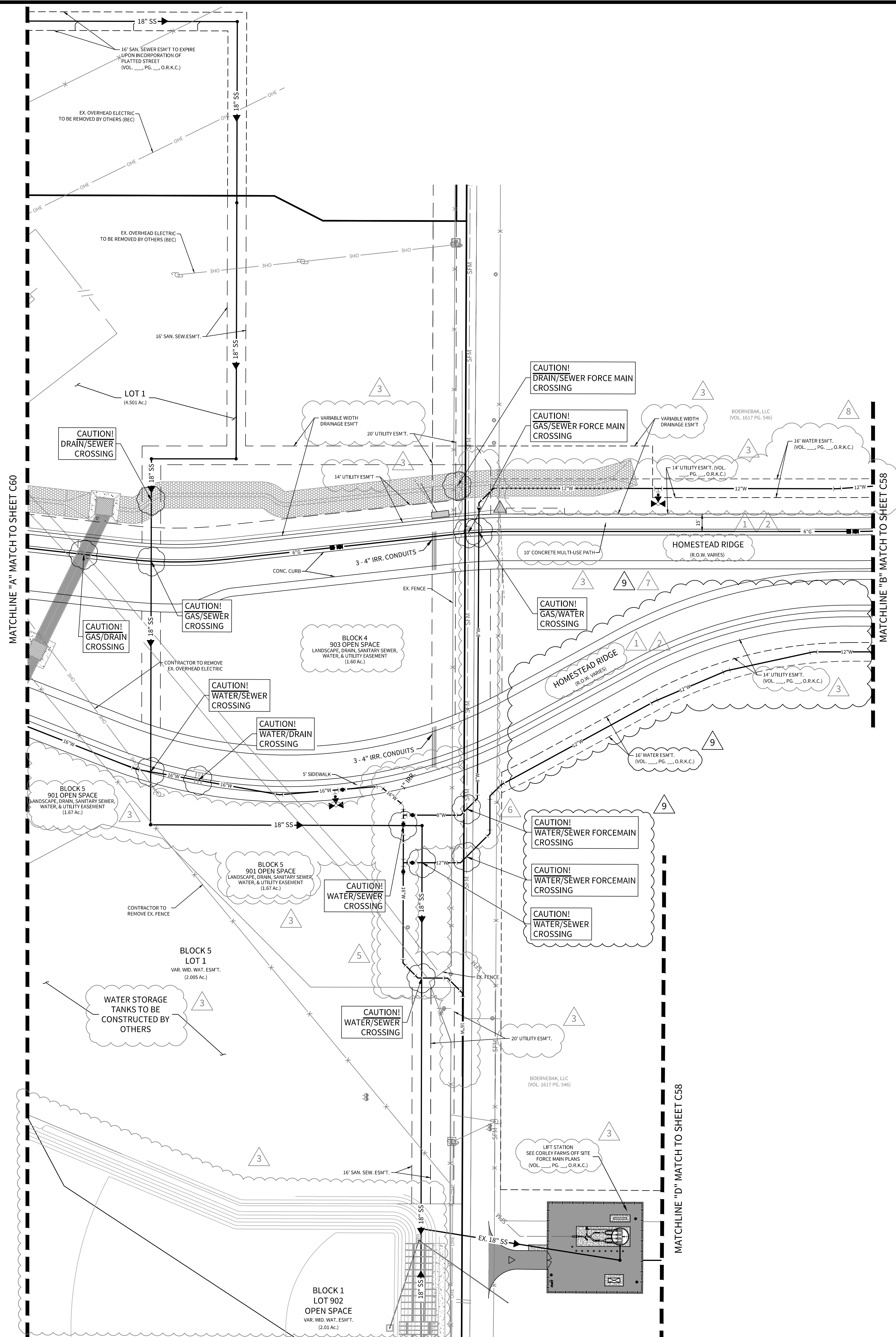
EXISTING UTILITIES ARE WITHIN THE LIMITS OF CONSTRUCTION. CONTRACTORS SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE, VERIFY THE EXACT LOCATION & IDENTIFY AREA OF CONFLICTS WITH EXISTING UTILITIES AND SHALL NOTIFY THE ENGINEER 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 UTILITIES 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 SITE(S) 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.



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P:(210) 681.2951 F: (210) 523.7112

CORLEY FARMS UNIT 1

UTILITY LAYOUT PLAN

DATE

02/14/2023

PROJECT NO.

03481.004

DRAWN BY

C3

CHECKED BY

XV/JC/DDC

REVISIONS

- | | |
|----|--|
| 1. | 2021-05-20 - COB COMMENTS |
| 2. | 2021-06-17 - COB COMMENTS |
| 3. | 2021-10-07 - CITY OF BOERNE COMMENTS |
| 4. | 2021-11-12 - CITY OF BOERNE COMMENTS |
| 5. | 2022-01-14 - EASEMENT UPDATES |
| 6. | 2022-03-04 - WATER MAIN EXTENSION |
| 7. | 2022-04-08 - WATER MAIN UPDATE, SEWER AND WATER EXTENSION |
| 8. | 2022-10-05 - REVISED 8" WATER MAIN LAYOUT & ADDED 16" WATER EASEMENT |
| 9. | 2023-02-13 - ADDED 8" & 12" WATER MAIN LOOP |



CUDE ENGINEERS
TBPE No. 455
TBPLS No. 10048500

C59