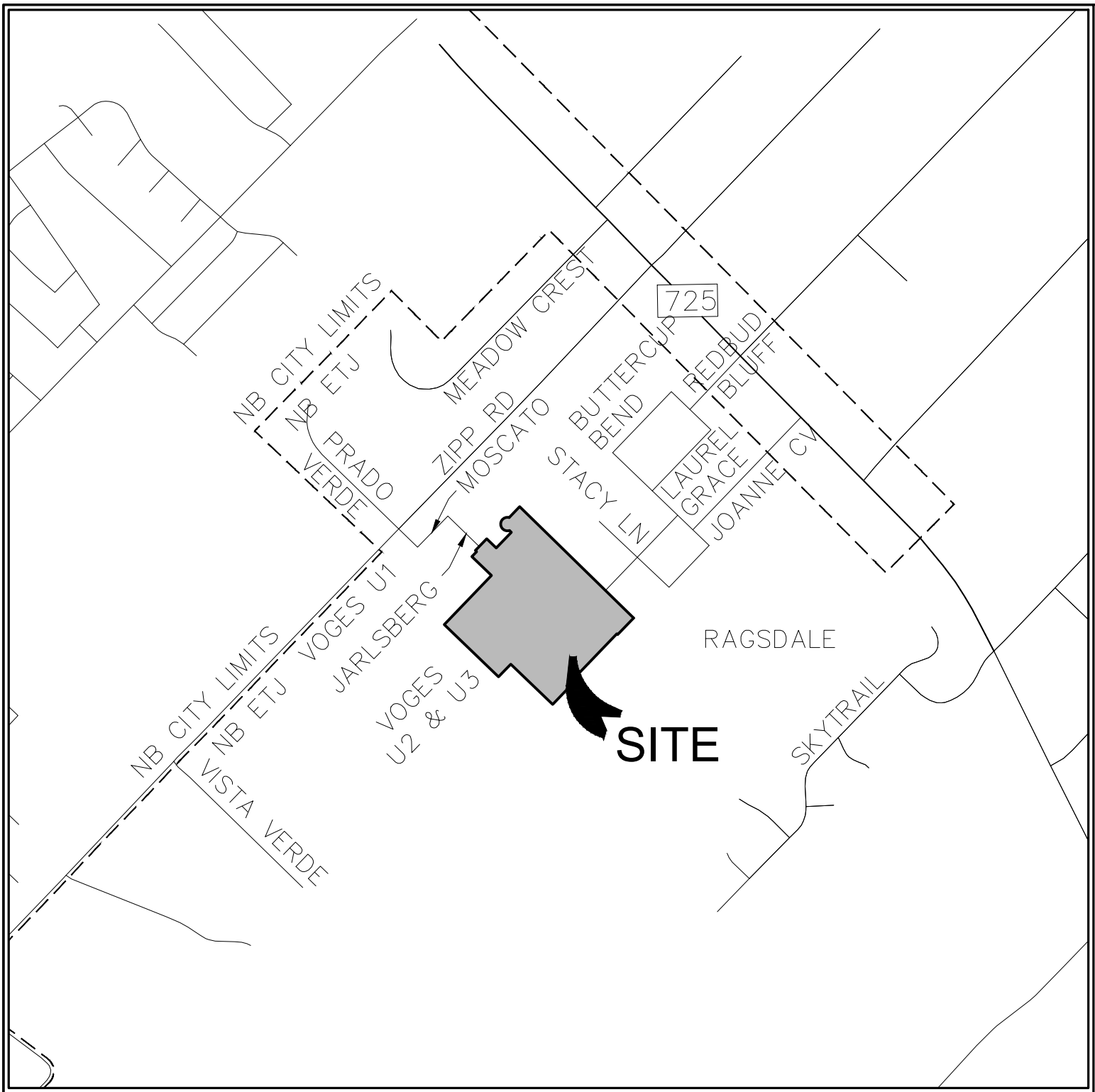


VOGES SUBDIVISION
UNIT 3
NEW BRAUNFELS, TEXAS
CIVIL SITE CONSTRUCTION PLANS

SAN ANTONIO LD, LLC
9504 INTERSTATE 35, STE. 310
SAN ANTONIO, TEXAS 78233



PROJECT LOCATION MAP

SCALE: N.T.S.

PROJECT BENCHMARK

SITE TBM #1
SET MAG SPIKE W/ WASHER
N: 13786302.23'
E: 2255456.14'
ELEV: 633.75'

SITE TBM #2
SET MAG SPIKE W/ WASHER
N: 13786880.63'
E: 2256014.00'
ELEV: 627.48'

LEGAL DESCRIPTION

BEING A 23.25 ACRE TRACT SITUATED IN THE SARAH DEWITT SURVEY NO. 48, ABSTRACT NO. 103, GUADALUPE COUNTY, TEXAS, BEING A PORTION OF A 45.004 ACRE TRACT, RECORDED IN DOCUMENT NO. 201999025809, AND A PORTION IN A 30.3030 ACRE TRACT, RECORDED IN DOCUMENT NO. 201999025812, ALL IN THE OFFICIAL PUBLIC RECORDS, GUADALUPE COUNTY, TEXAS.

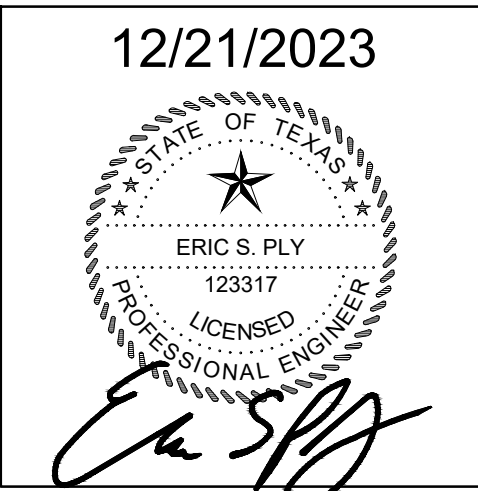
REQUIRED PERMITS:
CITY OF NEW BRAUNFELS

GBRA - WASTEWATER

GVSD - WATER

GVEC - ELECTIC

DECEMBER 2023



ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, THE CITY OF NEW BRAUNFELS MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.

Eric S. Ply
P.E. Registration No. 123317

PREPARED BY:



290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
HMTNB.COM
P(830)625-8555*F(830)625-8556
TBPE FIRM F-10961
TBPLS FIRM 1053600

GENERAL NOTES:

- IF CONSTRUCTION HAS NOT COMMENCED WITHIN ONE-YEAR OF CITY APPROVAL FOR CONSTRUCTION INSPECTION, THAT APPROVAL IS NO LONGER VALID.
- THE MOST CURRENT EDITIONS OF THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS AND THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES SHALL BE FOLLOWED FOR ALL CONSTRUCTION EXCEPT AS AMENDED BY THE CITY OF NEW BRAUNFELS STANDARD DETAILS.
- ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD. IN ACCEPTING THESE PLANS, THE CITY OF NEW BRAUNFELS MUST RELY UPON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE CITY OF NEW BRAUNFELS TO SET A PRE-CONSTRUCTION MEETING. A 48-HOUR ADVANCED NOTIFICATION IS REQUIRED FOR ALL INSPECTION AND MEETING REQUESTS.
 - ALL INSPECTIONS ARE TO BE CALLED IN AT 830-221-4068 OR,
 - FAXED IN AT 830-608-2117 OR,
 - E-MAILED AT INSPECTIONS@NBTEXAS.ORG.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL DEVICES ARE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE PLANS AND LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. IF THE NEED ARISES, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES MAY BE ORDERED BY THE ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- DRAINAGE IMPROVEMENTS SUFFICIENT TO MITIGATE OFFSITE IMPACT OF CONSTRUCTION MUST BE COMPLETED AND IN PLACE PRIOR TO ADDING IMPERVIOUS COVER TO THE SITE.
- THIS DEVELOPMENT IS A TYPE III DEVELOPMENT.
- NO PORTION OF THE SUBDIVISION IS LOCATED WITHIN ANY SPECIAL FLOOD HAZARD AREA (100 YR. FLOOD), AS DEFINED BY THE COMAL COUNTY, TEXAS, FIRM PANEL NUMBER 48187C0115F EFFECTIVE DATE NOVEMBER 2, 2007, AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
- THIS PROJECT IS NOT LOCATED WITHIN THE JURISDICTIONAL BOUNDARY OF THE EDWARDS AQUIFER RECHARGE ZONE.
- GAS UTILITIES ARE NOT INCLUDED IN THE CIVIL CONSTRUCTION PLANS. FINAL GAS UTILITY DESIGN SHALL BE APPROVED BY THE CITY FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

Sheet List Table	
Sheet Number	Sheet Title
C0.1	COVER
C0.2	GENERAL NOTES (1 OF 2)
C0.3	GENERAL NOTES (2 OF 2)
C0.4	PLAT (1 OF 2)
C0.5	PLAT (2 OF 2)
C1.0	EXISTING DRAINAGE MAP
C1.1	PROPOSED-ULTIMATE DRAINAGE MAP
C2.0	EROSION CONTROL PLAN
C2.1	EROSION CONTROL DETAILS
C3.0	GRADING PLAN (1 OF 4)
C3.1	GRADING PLAN (2 OF 4)
C3.2	GRADING PLAN (3 OF 4)
C3.3	GRADING PLAN (4 OF 4)
C3.4	RETAINING WALL
C3.5	GRADING DETAILS
C4.0	JARLSBERG LN P&P
C4.1	BURGUNDY TRLP&P
C4.2	BRIE DR P&P
C4.3	CHIANTI RD P&P
C4.4	TALEGGIO AVE P&P
C4.5	CABERNET ST P&P
C4.6	CABERNET CUL DE SAC
C4.7	CAMEMBERT ST P&P
C4.8	SYRAH AVE AND RAGSDALE WAY P&P
C4.9	STILTON AVE P&P
C4.10	CAMEMBERT AND CABERNET KNUCKLE P&P
C4.11	CAMEMBERT AND SYRAH KNUCKLE P&P
C4.12	TALEGGIO AND CHIANTI KNUCKLE P&P
C4.13	BRIE AND CHIANTI KNUCKLE P&P
C4.14	BURGUNDY AND BRIE KNUCKLE P&P
C4.15	FIRE ACCESS ROAD P&P
C4.16	SIGNAGE PLAN
C4.17	STREET DETAILS (1 OF 4)
C4.18	STREET DETAILS (2 OF 4)
C4.19	STREET DETAILS (3 OF 4)
C4.20	STREET DETAILS (4 OF 4)
C5.0	OVERALL STORM
C5.1	CHANNEL A P&P
C5.2	DRAIN B P&P
C5.3	CULVERT A P&P
C5.4	DRAIN C P&P
C5.5	STORM DETAILS (1 OF 2)
C5.6	STORM DETAILS (2 OF 2)
C6.0	OVERALL UTILITY (1 OF 2)
C6.1	OVERALL UTILITY (2 OF 2)
C7.0	OVERALL WATER PLAN (1 OF 2)
C7.1	OVERALL WATER PLAN (2 OF 2)
C7.2	WATER LATERALS (1 OF 2)
C7.3	WATER LATERALS (2 OF 2)
C7.4	WATER DETAILS (1 OF 2)
C7.5	WATER DETAILS (2 OF 2)
C8.0	OVERALL WASTEWATER PLAN (1 OF 2)
C8.1	OVERALL WASTEWATER PLAN (2 OF 2)
C8.2	WW LINE A P&P (1 OF 3)
C8.3	WW LINE A P&P (2 OF 3)
C8.4	WW LINE A P&P (3 OF 3)
C8.5	WW LINE B P&P (1 OF 2)
C8.6	WW LINE B P&P (2 OF 2)
C8.7	WW LINE C & D P&P
C8.8	WASTEWATER DETAILS

NOTE TO CONTRACTOR:

- ANY QUANTITIES PROVIDED BY HMT OR OWNER ON THE PLANS, OPINION OF PROBABLE COST, BID SUMMARIES, ETC. ARE FOR CURSORY USE ONLY. CONTRACTOR IS RESPONSIBLE FOR BIDDING SIGNED AND SEALED CONSTRUCTION PLANS. IF A DISCREPANCY EXIST, CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY.
- CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION AND ELEVATION OF ALL DOWNSTREAM CONNECTION POINTS PRIOR TO CONSTRUCTION. IF A DISCREPANCY EXIST, CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL INSTALL ALL GRAVITY SEWER, GRAVITY STORM SEWER, CURBS AND PAVEMENT FROM THE MOST DOWNSTREAM POINT OF CONNECTION. IF IMPROVEMENTS ARE CONSTRUCTED FROM UPSTREAM TO DOWNSTREAM, THEN THE CONTRACTOR WILL TAKE FULL RISK AND LIABILITY OF ANY ISSUES THAT MIGHT ARISE FROM FLOWLINE ELEVATION DISCREPANCIES, UTILITY CONFLICTS, ETC.
- CONTRACTOR IS RESPONSIBLE FOR THE STOCKPILING OF ANY EXCESS DIRT. ALL BIDS FROM CONTRACTOR SHOULD ACCOUNT FOR THE REMOVAL AND PLACEMENT OF ALL EARTHWORK TO INCLUDE STOCKPILING, EXPORT, IMPORT, ETC. IF A LOCATION OF PLACEMENT OF EXCESS DIRT IS NOT SHOWN ON THE PLANS, THEN CONTRACTOR SHALL CONTACT ENGINEER IMMEDIATELY TO DETERMINE THE MOST SUITABLE STOCKPILE LOCATION.
- BY THE ACT OF SUBMITTING A BID FOR THIS PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS' AND MATERIAL SUPPLIERS' KNOWLEDGE, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.
- THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT EACH OF THE INDIVIDUAL UTILITIES FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS PRIOR TO BEGINNING ANY CONSTRUCTION.

VOGES SUBDIVISION UNIT 3
CIVIL SITE CONSTRUCTION PLANS

HMT # 248.014

PLAT NOTES:

- ALL LOTS WITHIN THE SUBDIVISION WILL BE PROVIDED WATER SERVICES BY GREEN VALLEY SPECIAL UTILITY DISTRICT (GVSD). SEWER SERVICES WILL BE PROVIDED BY GUADALUPE-BLANCO RIVER AUTHORITY (GBRA). ELECTRIC SERVICES WILL BE PROVIDED BY GUADALUPE ELECTRIC COOPERATIVE (GVEC). TELEPHONE AND CABLE SERVICES FOR THE SUBDIVISION WILL BE PROVIDED BY AT&T COMMUNICATIONS AND/OR SPECTRUM.
- ALL BEARINGS AND COORDINATES SHOWN HEREON ARE BASED UPON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE (4204), NORTH AMERICAN DATUM 1983. GRID DISTANCES SHOWN HEREON ARE BASED UPON SURFACE MEASUREMENTS. TO CONVERT SURFACE DISTANCES TO GRID, APPLY A COMBINED SCALE FACTOR OF 1.00015.
- MONUMENTS WERE FOUND OR SET AT EACH CORNER OF THE SURVEY BOUNDARY OF THE SUBDIVISION. MONUMENTS AND LOT MARKERS WILL BE SET WITH 1/2" IRON PINS WITH PLASTIC CAP STAMPED "HMT" IMMEDIATELY AFTER COMPLETION OF UTILITY INSTALLATION AND STREET CONSTRUCTION UNLESS NOTED OTHERWISE.
- THIS SUBDIVISION IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE.
- THIS SUBDIVISION IS WITHIN THE EXTRATERRITORIAL JURISDICTION LIMITS OF THE CITY OF NEW BRAUNFELS, TEXAS.
- THIS SUBDIVISION IS WITHIN THE NEW BRAUNFELS INDEPENDENT SCHOOL DISTRICT.
- NO PORTION OF THE SUBDIVISION IS LOCATED WITHIN ANY SPECIAL FLOOD HAZARD AREA (100 YR. FLOOD), AS DEFINED BY THE GUADALUPE COUNTY, TEXAS, FLOOD INSURANCE RATE MAP NUMBER 4816720115F, EFFECTIVE DATE NOVEMBER 2, 2007 AS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
- NO STRUCTURES, WALLS, OR OTHER OBSTRUCTIONS OF ANY KIND SHALL BE PLACED WITHIN THE LIMITS OF THE DRAINAGE EASEMENTS SHOWN ON THIS PLAT. NO LANDSCAPING, FENCES, OR OTHER TYPE OF MODIFICATIONS WHICH ALTER THE CROSS SECTIONS OF THE DRAINAGE EASEMENTS OR DECREASE THE HYDRAULIC CAPACITY OF THE EASEMENT, AS APPROVED, SHALL BE ALLOWED WITHOUT THE APPROVAL OF THE CITY ENGINEER. THE CITY OF NEW BRAUNFELS SHALL HAVE THE RIGHT OF INGRESS AND EGRESS OVER GRANTEE'S ADJACENT PROPERTY TO REMOVE ANY OBSTRUCTIONS PLACED WITHIN THE LIMITS OF SAID DRAINAGE EASEMENTS AND TO MAKE ANY MODIFICATIONS OR IMPROVEMENTS WITHIN SAID DRAINAGE EASEMENTS.
- FUTURE DEVELOPMENT IS SUBJECT TO CHAPTER 114 (STREETS, SIDEWALKS AND OTHER PUBLIC SPACES) OF THE NEW BRAUNFELS CODE OF ORDINANCES.
- FOUR (4) FOOT WIDE SIDEWALKS WILL BE CONSTRUCTED PER CITY STANDARDS ADJACENT TO THE CURB BY THE DEVELOPER AT THE TIME OF STREET CONSTRUCTION ALONG:
A. CAMERBERT ST - LOT 923, BLOCK 2;
B. BURGUNDY TRL - LOT 924, BLOCK 12;
C. JARLSBERG LN - LOT 923, BLOCK 2, AND LOT 920, BLOCK 4 (UNIT 2);
D. SYRAH AVE - LOT 904, BLOCK 2(UNIT 1);
E. CHANTI RD/TALEGGIO AVE SAC - LOT 924, BLOCK 12;
F. CABERNET ST - LOT 925, BLOCK 16.
- FOUR (4) FOOT WIDE SIDEWALKS WILL BE CONSTRUCTED PER CITY STANDARDS ADJACENT TO THE CURB BY THE HOME BUILDER AT THE TIME OF BUILDING CONSTRUCTION ALONG:SYRAH AVE, CAMBERBERT ST, RAGSDALE WAY, CABERNET ST, JARLSBERG LN, BURGUNDY TRL, BRIE DR, CHANTI RD, TALEGGIO AVE, AND STILTON AVE.
- THE ELEVATION OF THE LOWEST FLOOR OF A STRUCTURE SHALL BE AT LEAST 10 INCHES ABOVE THE FINISHED GRADE OF THE SURROUNDING GROUND, WHICH SHALL BE SLOPED IN A FASHION SO AS TO DRAIN STORMWATER AWAY FROM THE STRUCTURE. PROPERTIES ADJACENT TO STORMWATER CONVEYANCE STRUCTURES MUST HAVE A FLOOR SLAB ELEVATION OR BOTTOM OF FLOOR JOISTS A MINIMUM OF ONE FOOT ABOVE THE 100-YEAR WATER FLOW ELEVATION IN THE STRUCTURE. DRIVEWAYS SERVING HOUSES ON THE DOWNHILL SIDE OF THE STREET SHALL HAVE A PROPERLY SIZED CROSS SWALE PREVENTING RUNOFF FROM ENTERING THE GARAGE AND SHALL PREVENT WATER FROM LEAVING THE STREET.
- THIS SUBDIVISION IS SUBJECT TO THE 2018 CITY OF NEW BRAUNFELS PARK LAND DEDICATION AND DEVELOPMENT ORDINANCE. THIS PLAT IS APPROVED FOR ONE DWELLING UNIT(S) PER BUILDABLE LOT WITH A MAXIMUM OF 133 BUILDABLE LOTS. AT SUCH TIME THAT ADDITIONAL DWELLING UNITS ARE CONSTRUCTED, THE OWNER OF THE LOT(S) SHALL NOTIFY THE CITY AND COMPLY WITH THE ORDINANCE FOR EACH DWELLING UNIT.
- ALL DRAINAGE EASEMENTS WITHIN THE LOTS WILL BE OWNED AND MAINTAINED BY PROPERTY OWNER.
- LOT 923 (DRAINAGE), BLOCK 2; LOT 924 (DRAINAGE), BLOCK 12; LOT 925 (DRAINAGE), BLOCK 16, WILL BE OWNED AND MAINTAINED BY THE SUBDIVISION PROPERTY OWNER, ITS SUCCESSORS AND/OR ASSIGNS.

GVSD NOTES:

EASEMENT CERTIFICATE

THE OWNER OF THE LAND SHOWN ON THIS PLAT AND WHOSE NAME IS SUBSCRIBED HERETO, IN PERSON OR THROUGH A DULY AUTHORIZED AGENT, DEDICATES TO GREEN VALLEY SPECIAL UTILITY DISTRICT OF MARION, TEXAS, ITS SUCCESSORS AND ASSIGNS, A PERPETUAL EASEMENT WITH THE RIGHT TO ERECT, CONSTRUCT, INSTALL AND LAY OVER AND ACROSS THOSE AREAS MARKED AS "WATERLINE EASEMENT" AND IN ALL STREETS AND BYWAYS, SUCH PIPELINES, SERVICE LINES, WATER METERS, AND OTHER WATER SYSTEM APPURTENANCES AS IT REQUIRES, TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS, THE RIGHT TO REMOVE FROM SAID LAND ALL TREES, SHRUBS, GRASSES, PAVEMENTS, FENCES, STRUCTURES, IMPROVEMENTS OR OTHER OBSTRUCTIONS WHICH MAY INTERFERE WITH THE FACILITY OR THE ACCESS THERETO. IT IS AGREED AND UNDERSTOOD THAT NO BUILDING, CONCRETE SLAB OR WALLS WILL BE PLACED WITHIN SAID EASEMENT AREAS. NO OTHER UTILITY LINES MAY BE LOCATED WITHIN 36" PARALLEL TO WATER LINES.

ANY MONETARY LOSS TO GREEN VALLEY SUD RESULTING FROM MODIFICATIONS REQUIRED OF UTILITY EQUIPMENT LOCATED WITHIN SAID EASEMENTS DUE TO GRADE CHANGE OR GROUND ELEVATION ALTERATION SHALL BE CHARGED TO THE PERSON OR PERSONS DEEMED RESPONSIBLE FOR SAID GRADE CHANGES OR GROUND ELEVATION ALTERATIONS. UPON ENTERING IN AND UPON SAID EASEMENT, THE DISTRICT WILL ENDEAVOR TO RESTORE THE LAND SURFACE TO A USEABLE CONDITION BUT IS NOT OBLIGATED TO RESTORE IT TO A PRE-EXISTING CONDITION.

THE EASEMENT CONVEYED HEREIN WAS OBTAINED OR IMPROVED THROUGH FEDERAL FINANCIAL ASSISTANCE. THIS EASEMENT IS SUBJECT TO THE PROVISION OF TITLE VI OF THE CIVIL RIGHTS ACT OF 1964, AND THE REGULATION ISSUED PURSUANT THERETO FOR SO LONG AS THE EASEMENT CONTINUES TO BE USED FOR THE SAME OR SIMILAR PURPOSE FOR WHICH FINANCIAL ASSISTANCE WAS EXTENDED OR FOR AS LONG AS THE GRANTEE OWNS IT, WHICHEVER IS LONGER.

KNOW ALL MEN BY THESE PRESENTS:

I, THE UNDERSIGNED DOROTHY J. TAYLOR, A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECTLY MADE UNDER MY SUPERVISION AND IN COMPLIANCE WITH CITY AND STATE SURVEY REGULATIONS AND LAWS AND MADE ON THE GROUND AND THAT THE CORNER MONUMENTS WERE PROPERLY PLACED UNDER MY SUPERVISION.

PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE.

DOROTHY J. TAYLOR
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 6295
290 S. CASTELL AVE., SUITE 100, NEW BRAUNFELS, TEXAS 78130

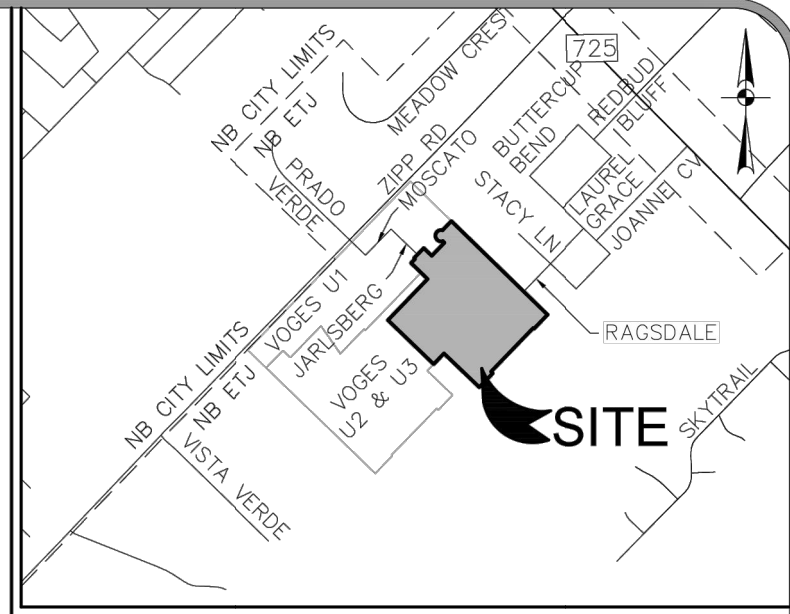
PLAT PREPARED NOVEMBER 28, 2023



290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 10153600

FINAL PLAT ESTABLISHING
VOGES, UNIT 3

BEING A 23.25 ACRE TRACT SITUATED IN THE SARAH DeWITT SURVEY NO. 48, ABSTRACT NO. 103, GUADALUPE COUNTY, TEXAS, BEING A PORTION OF A 45.004 ACRE TRACT, RECORDED IN DOCUMENT NO. 201999025809, AND A PORTION IN A 30.3030 ACRE TRACT, RECORDED IN DOCUMENT NO. 201999025812, ALL IN THE OFFICIAL PUBLIC RECORDS, GUADALUPE COUNTY, TEXAS.



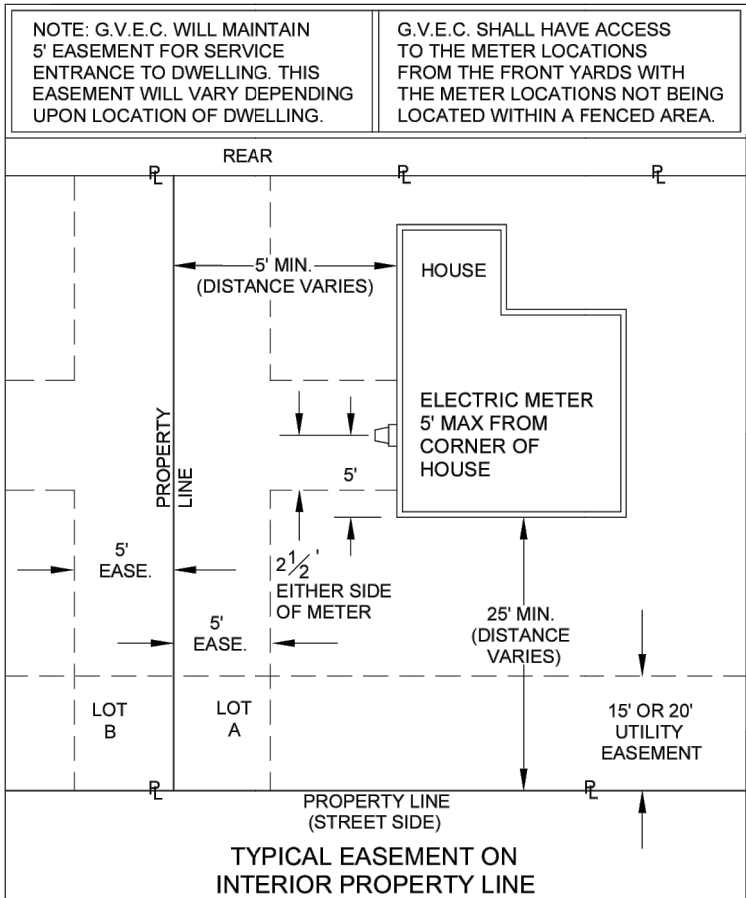
LOCATION MAP
NOT TO SCALE

GVEC NOTES:

- WHERE UNDERGROUND SERVICES ARE UTILIZED GVEC WILL POSSESS A 5-FOOT-WIDE EASEMENT TO THE SERVICE METER LOCATION. EASEMENT TO FOLLOW SERVICE LINE AND WILL VARY DEPENDING ON LOCATION OF BUILDING OR STRUCTURE.
- GVEC SHALL HAVE ACCESS TO METER LOCATIONS FROM THE FRONT YARD WITH THE LOCATION NOT BEING WITHIN A FENCED AREA.
- ANY EASEMENT DESIGNATED AS A GVEC 20' X 20' UTILITY EASEMENT SHALL REMAIN OPEN FOR ACCESS AT ALL TIMES AND SHALL NOT BE WITHIN A FENCED AREA.
- ALL UTILITY EASEMENTS ARE FOR THE CONSTRUCTION, UPGRADE, MAINTENANCE (INCLUDING BUT NOT LIMITED TO REMOVAL OF TREES AND OTHER OBSTRUCTIONS), READING OF METERS, AND REPAIR OF ALL OVERHEAD AND UNDERGROUND UTILITIES AND SHALL REMAIN AT FINAL GRADE.
- ALL ELECTRIC EASEMENTS, FOR BOTH PRIMARY AND SECONDARY ELECTRIC SERVICE, INCLUDE RIGHTS OF INGRESS AND EGRESS ACROSS THE SUBDIVISION FOR THE PURPOSE OF INSTALLING, SERVICING, UPGRADING, AND MAINTAINING THE ELECTRICAL FACILITIES AND SHALL REMAIN AT FINAL GRADE.
- ANY REQUEST TO SUBSEQUENTLY RELOCATE ANY PORTION OF THE ELECTRIC FACILITIES INSTALLED SHALL BE SUBJECT TO THE COOPERATIVE'S REASONABLE DISCRETION AND THE REQUESTING PARTY SHALL BEAR ALL COSTS ASSOCIATED WITH SUCH RELOCATION.
- THE COOPERATIVE SHALL ONLY BE REQUIRED TO FILL, GRADE, AND RESTORE GROUND COVER BACK TO ORIGINAL GRADE AS A RESULT OF ANY EXCAVATION BY OR ON BEHALF OF THE COOPERATIVE.

THIS SUBDIVISION PLAT OF VOGES, UNIT 3, HAS BEEN SUBMITTED TO AND APPROVED BY GUADALUPE VALLEY ELECTRIC COOP., INC. FOR EASEMENTS.

AGENT FOR GUADALUPE VALLEY ELECTRIC COOP., INC.



APPROVED THIS THE _____ DAY OF _____, 20____,
BY THE PLANNING COMMISSION OF THE CITY OF NEW
BRAUNFELS, TEXAS.

CHAIRMAN _____

APPROVED FOR ACCEPTANCE

DATE _____ PLANNING DIRECTOR _____
DATE _____ CITY ENGINEER _____

STATE OF TEXAS
COUNTY OF GUADALUPE

STATE OF TEXAS
COUNTY OF GUADALUPE

I (WE) THE UNDERSIGNED OWNER(S) OF THE LAND SHOWN ON THIS PLAT, AND DESIGNATED HEREIN AS THE VOGES, UNIT 3 A SUBDIVISION TO THE CITY OF NEW BRAUNFELS, COUNTY OF GUADALUPE, TEXAS, AND WHOSE NAME IS SUBSCRIBED HERETO, DO HEREBY SUBDIVIDE SUCH PROPERTY AND DEDICATE TO THE USE OF THE PUBLIC ALL STREETS, ALLEYS, PARKS, DRAINS, EASEMENTS, AND PUBLIC PLACES THEREON SHOWN FOR THE PURPOSES AND CONSIDERATION THEREIN EXPRESSED.

RAUSCH COLEMAN HOMES' SAN ANTONIO, LLC
BY:
4059 N. COLLEGE, SUITE 300, BOX 9
FAYETTEVILLE, AR 72703

STATE OF TEXAS
COUNTY OF _____

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS
____ DAY OF _____, 20____,
BY _____

NOTARY PUBLIC, STATE OF TEXAS
MY COMMISSION EXPIRES: _____

COUNTY CLERK, 'GUADALUPE' COUNTY, TEXAS

DEPUTY _____

SHEET 1 OF 2

PLAT (1 OF 2)

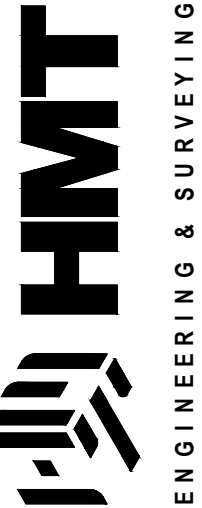
VOGES SUBDIVISION
UNIT 3

REVISION	DATE	DESCRIPTION

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C0.4

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	18.37'	S46°05'21"E
L2	96.70'	N46°05'21"W
L3	120.00'	S44°13'48"W
L4	12.31'	S46°05'21"E
L5	50.00'	S43°54'39"W
L6	80.00'	N44°08'19"E
L7	7.38'	N46°05'21"E
L8	120.00'	S43°54'28"W
L9	99.94'	S46°05'21"E
L10	8.52'	N46°05'21"E
L11	10.00'	S43°54'39"W
L12	13.12'	S43°54'39"W
L13	13.47'	S46°05'21"E
L14	13.92'	S46°03'52"E
L15	10.77'	S43°54'39"W
L16	38.14'	S43°54'39"W
L17	16.20'	S43°54'39"W
L18	11.00'	S46°05'21"E
L19	13.58'	S43°54'39"W

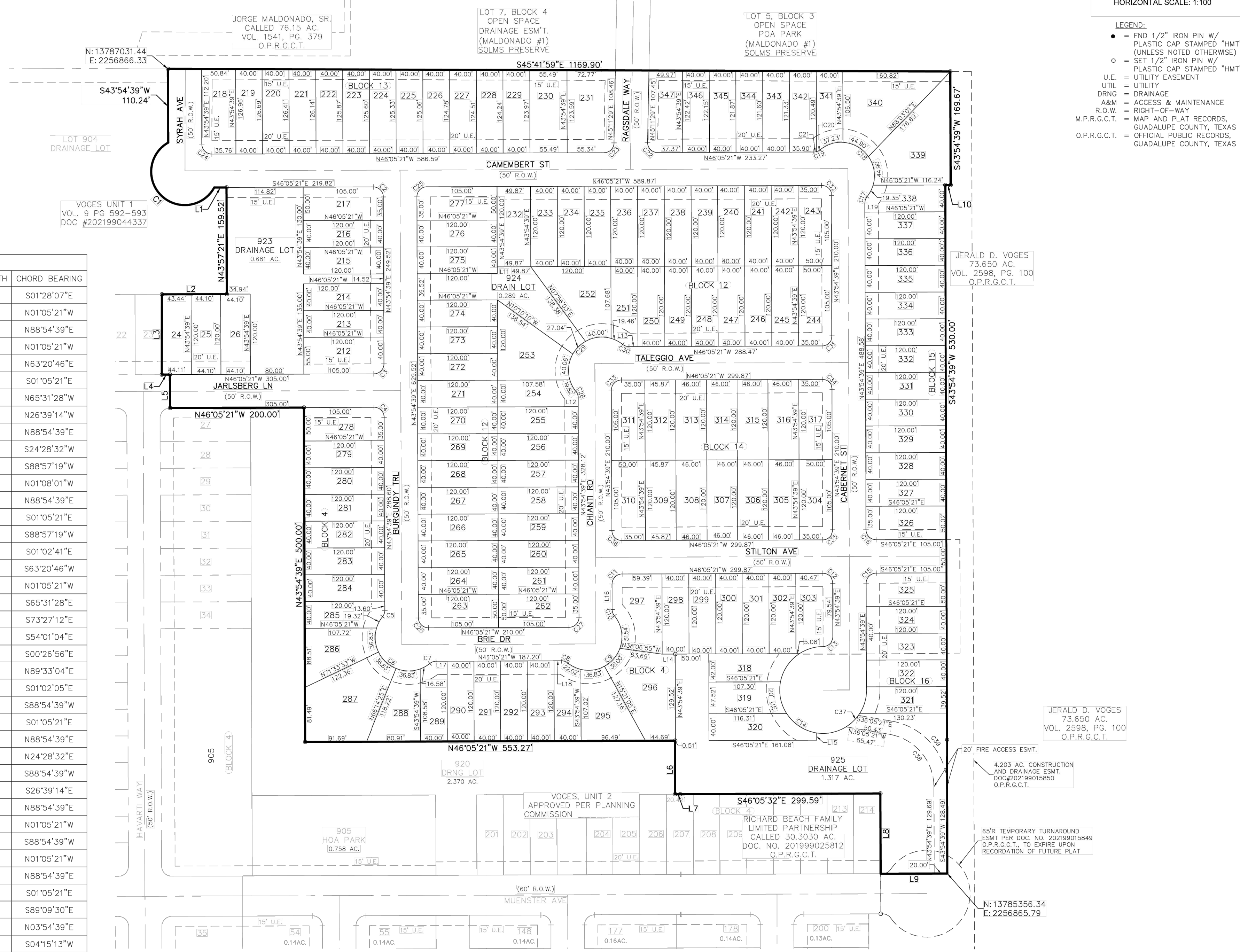
CURVE TABLE							
CURVE	LENGTH	RADIUS	DELTA	TANGENT	CHORD LENGTH	CHORD BEARING	
C1	185.10'	49.95'	212°18'25"	-172.46'	95.96'	S01°28'07"E	
C2	23.56'	15.00'	090°00'00"	15.00'	21.21'	N01°05'21"W	
C3	23.56'	15.00'	090°00'00"	15.00'	21.21'	N88°54'39"E	
C4	23.56'	15.00'	090°00'00"	15.00'	21.21'	N01°05'21"W	
C5	10.18'	15.00'	038°52'15"	5.29'	9.98'	N63°20'46"E	
C6	146.38'	50.00'	167°44'30"	465.62'	99.43'	S01°05'21"E	
C7	10.18'	15.00'	038°52'15"	5.29'	9.98'	N65°31'28"W	
C8	10.18'	15.00'	038°52'15"	5.29'	9.98'	N26°39'14"W	
C9	146.38'	50.00'	167°44'30"	465.62'	99.43'	N88°54'39"E	
C10	10.18'	15.00'	038°52'15"	5.29'	9.98'	N24°28'32"W	
C11	23.54'	15.00'	089°54'40"	14.98'	21.20'	S88°57'19"W	
C12	23.54'	15.00'	089°54'40"	14.98'	21.20'	N01°06'01"W	
C13	23.56'	15.00'	090°00'00"	15.00'	21.21'	N88°54'39"E	
C14	306.31'	65.00'	270°00'00"	-65.00'	91.92'	S01°05'21"E	
C15	23.54'	15.00'	089°54'40"	14.98'	21.20'	S88°57'19"W	
C16	23.59'	15.00'	090°05'21"	15.02'	21.23'	S01°02'41"E	
C17	10.18'	15.00'	038°52'15"	5.29'	9.98'	S63°20'46"W	
C18	146.38'	50.00'	167°44'30"	465.62'	99.43'	N01°05'21"W	
C19	10.18'	15.00'	038°52'15"	5.29'	9.98'	S65°31'28"E	
C20	6.02'	15.00'	023°00'48"	3.05'	3.98'	S27°12'12"E	
C21	4.15'	15.00'	015°51'26"	2.09'	4.14'	S54°01'04"E	
C22	23.90'	15.00'	091°16'50"	15.34'	21.45'	S00°26'56"E	
C23	23.23'	15.00'	088°43'10"	14.67'	20.97'	N89°33'04"E	
C24	23.72'	15.04'	090°23'20"	15.14'	21.34'	S01°02'05"E	
C25	23.56'	15.00'	090°00'00"	15.00'	21.21'	S88°54'39"W	
C26	23.56'	15.00'	090°00'00"	15.00'	21.21'	N01°05'21"E	
C27	23.56'	15.00'	090°00'00"	15.00'	21.21'	N88°54'39"E	
C28	10.18'	15.00'	038°52'15"	5.29'	9.98'	N24°28'32"E	
C29	146.38'	50.00'	167°44'30"	465.62'	99.43'	S88°54'39"E	
C30	10.18'	15.00'	038°52'15"	5.29'	9.98'	S26°39'14"E	
C31	23.56'	15.00'	090°00'00"	15.00'	21.21'	N88°54'39"E	
C32	23.56'	15.00'	090°00'00"	15.00'	21.21'	N01°05'21"W	
C33	23.56'	15.00'	090°00'00"	15.00'	21.21'	S88°54'39"W	
C34	23.56'	15.00'	090°00'00"	15.00'	21.21'	N01°05'21"W	
C35	23.56'	15.00'	090°00'01"	15.00'	21.21'	N88°54'39"E	
C36	23.56'	15.00'	090°00'01"	15.00'	21.21'	S01°05'21"E	
C37	25.18'	65.00'	022°11'34"	12.75'	25.02'	S89°09'30"E	
C38	111.70'	80.00'	080°00'00"	67.13'	102.85'	S01°04'39"E	
C39	140.83'	100.02'	080°40'46"	84.94'	129.48'	S04°51'37"W	



290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 10153600

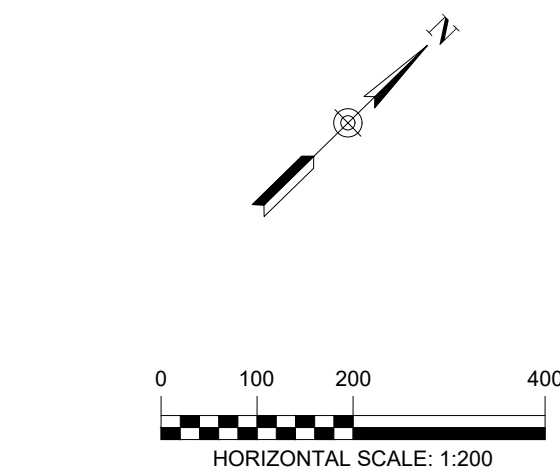
FINAL PLAT ESTABLISHING
VOGES, UNIT 3

BEING A 23.25 ACRE TRACT SITUATED IN THE SARAH DeWITT SURVEY NO. 48. ABSTRACT NO. 103, GUADALUPE COUNTY, TEXAS. BEING A PORTION OF A 45.004 ACRE TRACT, RECORDED IN DOCUMENT NO. 201999025809, AND A PORTION IN A 30.3030 ACRE TRACT, RECORDED IN DOCUMENT NO. 201999025812, ALL IN THE OFFICIAL PUBLIC RECORDS, GUADALUPE COUNTY, TEXAS.



SHEET 2 OF 2

FOR REFERENCE ONLY
PLAT STATUS: IN REVIEW



LEGEND


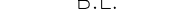




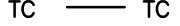




- | | |
|---|-------------------------|
|  | EXISTING CONTOURS |
|  | PROPOSED CONTOURS |
|  | BUILDING SETBACK LINE |
|  | UTILITY EASEMENT |
|  | DRAINAGE EASEMENT |
|  | DRAINAGE AREA |
|  | TIME OF CONCENTRATION |
|  | POINT OF CONCENTRATION |
|  | DRAINAGE FLOW DIRECTION |
|  | DRAINAGE AREA LABEL |
|  | VOGES UNIT 3 |

Table 1 - Existing Conditions Hydrology Calculations - City of New Braunfels

Point of Concentration	Description	Drainage Area	Area	T _c	Curve Number	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
EX-1	Drainage Area 1 Comparison	EX-1	174.80	32.00	85	186.81	455.57	654.23	1074.90
EX-2	Drainage Area 2 Comparison	EX-2	38.70	27.00	84	48.39	113.06	161.19	262.41
EX-3	Drainage Area 3 Comparison	EX-3	48.70	34.00	86	59.96	134.43	189.31	304.34
EX-A	Point A Area Comparison	EX-1, EX-2, EX-3	262.20	-	-	282.67	684.94	981.94	1611.22

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DATE: DECEMBER 2023

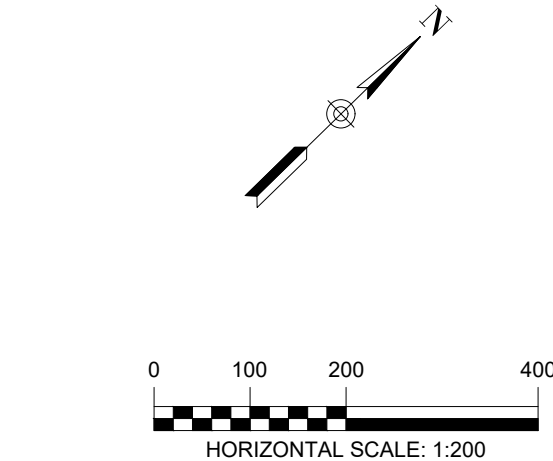
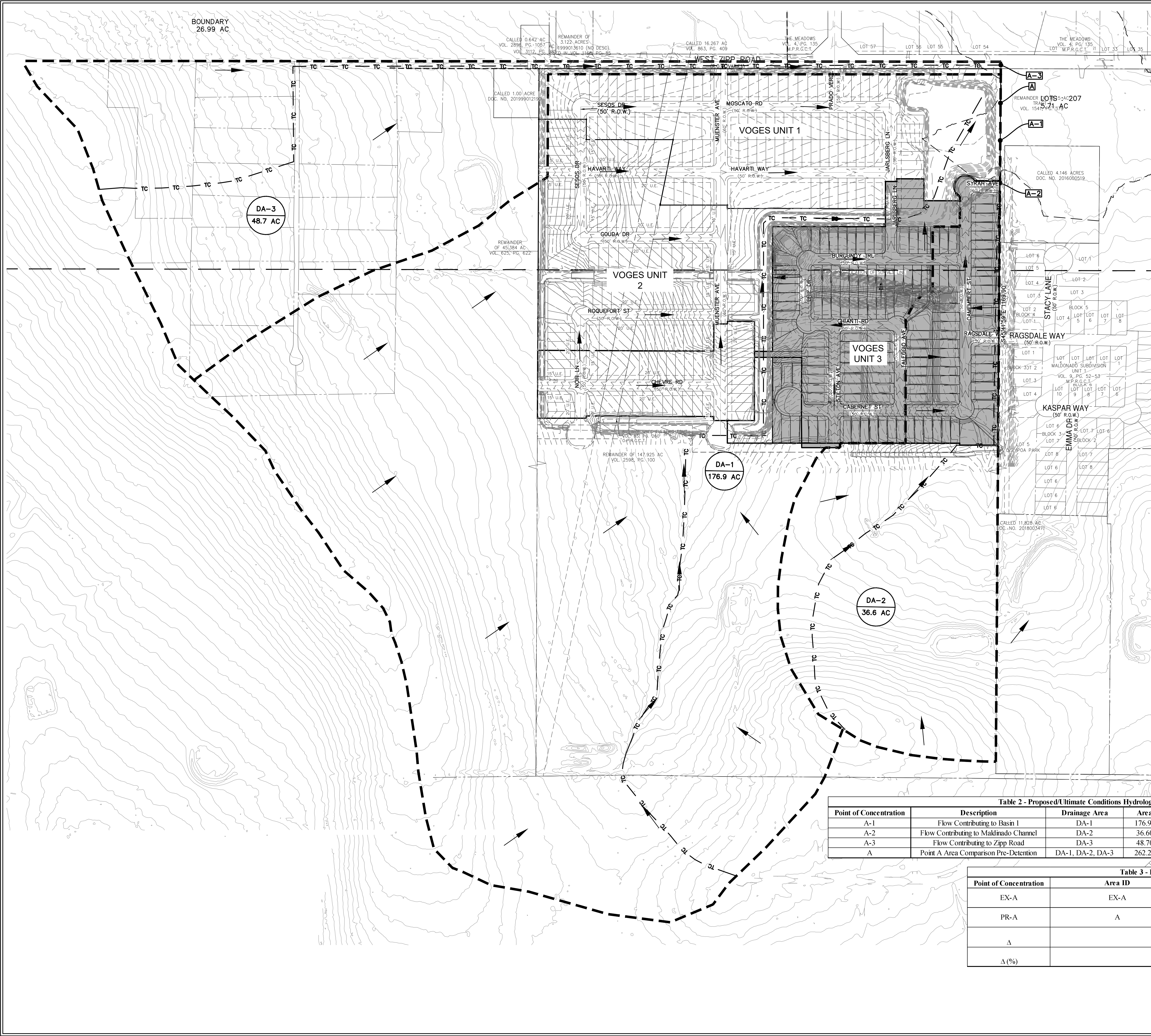
DRAWN BY: MF

DESIGNED BY: MF

REVIEWED BY: ES

HMT PROJECT NO.: 248.014

Drawing Name: M:_Projects\248 - Brauch Coleman Homes\014 - Voges Unit 1.dwg User: matt-p Dec 21, 2023 - 4:43pm



- LEGEND**
- 700 — EXISTING CONTOURS
 - 700 — PROPOSED CONTOURS
 - B.L. BUILDING SETBACK LINE
 - U.E. UTILITY EASEMENT
 - D.E. DRAINAGE EASEMENT
 - — DRAINAGE AREA
 - TC — TIME OF CONCENTRATION
 - A-1 ○ POINT OF CONCENTRATION
 - — DRAINAGE FLOW DIRECTION
 - DA ○ DRAINAGE AREA LABEL
 - VOGES UNIT 3

Table 2 - Proposed/Ultimate Conditions Hydrology Calculations - City of New Braunfels									
Point of Concentration	Description	Drainage Area	Area	T _c	Curve Number	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
A-1	Flow Contributing to Basin 1	DA-1	176.90	32.00	85	221.11	506.38	717.68	1161.05
A-2	Flow Contributing to Maldonado Channel	DA-2	36.60	25.00	85	49.89	113.79	161.40	261.28
A-3	Flow Contributing to Zipp Road	DA-3	48.70	34.00	86	59.96	134.43	189.31	304.34
A	Point A Area Comparison Pre-Detention	DA-1, DA-2, DA-3	262.20	-	-	328.52	748.35	1058.90	1710.92

Table 3 - Proposed/Ultimate POC A Comparison Table						
Point of Concentration	Area ID	Description	Q ₂ (cfs)	Q ₁₀ (cfs)	Q ₂₅ (cfs)	Q ₁₀₀ (cfs)
EX-A	EX-A	Pre-Development Flowrates	282.67	684.94	981.94	1611.22
PR-A	A	Post-Development Post-Detention Flowrates	281.98	682.10	979.08	1604.75
Δ			(0.69)	(2.84)	(2.86)	(6.47)
Δ (%)			-0.69%	-2.84%	-2.86%	-6.47%

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TBPLS FIRM 1053600

HMT
ENGINEERING & SURVEYING

12/21/23

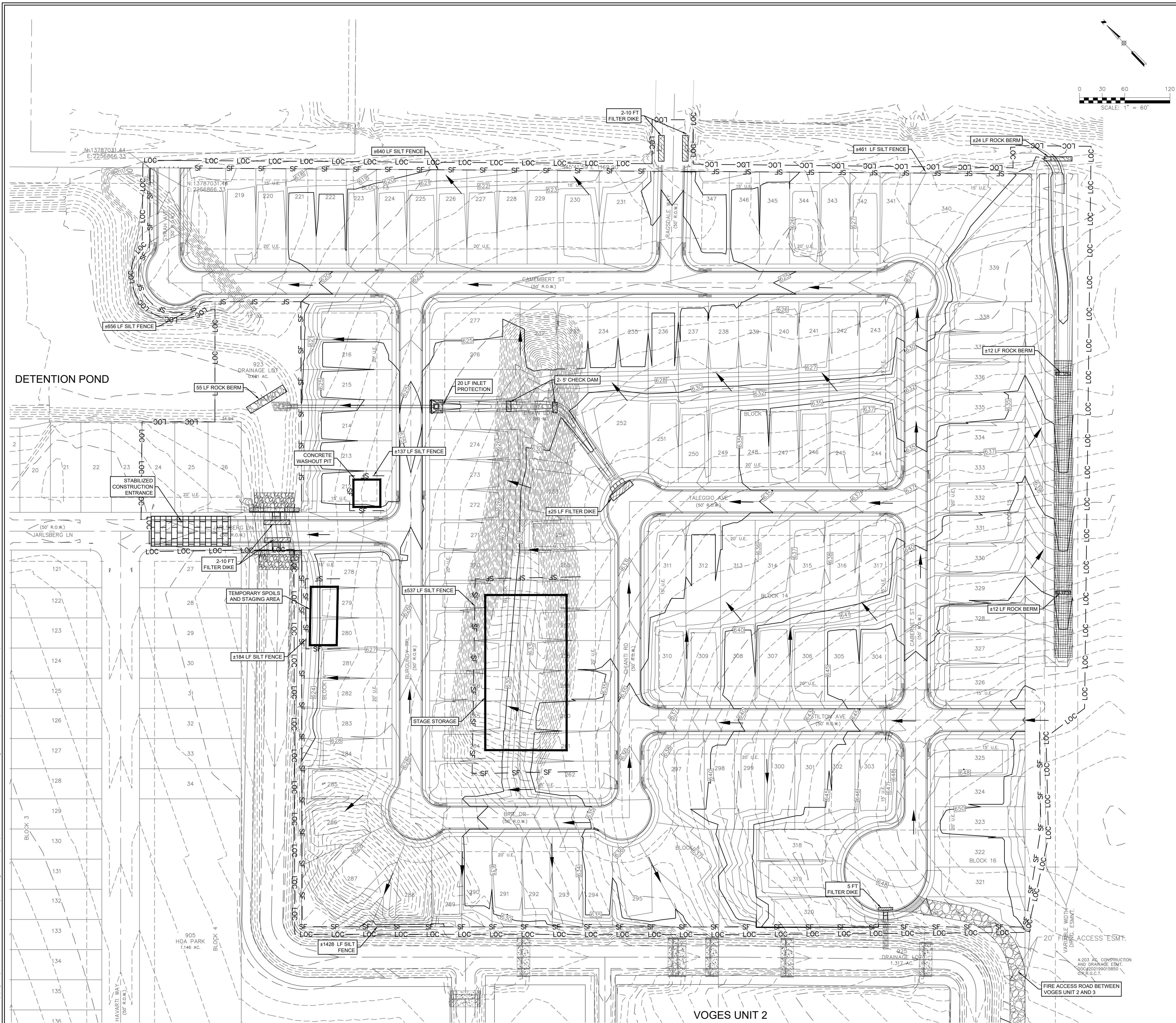
ERIC S. PLY
123317
LICENSED PROFESSIONAL ENGINEER
Eric S. Ply

**PROPOSED-ULTIMATE
DRAINAGE MAP**
VOGES SUBDIVISION
UNIT 3





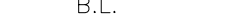

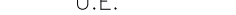

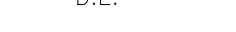

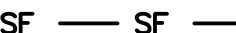
NO.	REVISION DESCRIPTION	REVISION DATE

DATE: DECEMBER 2023
DRAWN BY: MP
DESIGNED BY: MP
REVIEWED BY: ESP
HMT PROJECT NO.: 248.014

**SHEET
C1.1**



- LEGEND**

	EXISTING CONTOURS
	PROPOSED CONTOURS
	BUILDING SETBACK LINE
	UTILITY EASEMENT
	DRAINAGE EASEMENT
	DRAINAGE FLOW DIRECTION
	SILT FENCE
	LIMIT OF CONSTRUCTION
	STABILIZED CONSTRUCTION ENTRANCE
	FILTER DIKE CURB INLET PROTECTION
	ROCK BERM

NOTE:

PER TPDES REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENT) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 DAYS. SEEDING DOES NOT CONSTITUTE AS STABILIZATION.

SILT FENCE AT PROPERTY LINE MAY BE SHOWN GRAPHICALLY OFFSET FROM PROPERTY LINE TO AVOID OVERLAP OF LINework. CONTRACTOR SHALL NOT INSTALL EROSION CONTROL MEASURES BEYOND LIMITS OF CONSTRUCTION REGARDLESS OF GRAPHIC REPRESENTATION.

- ## SEQUENCE OF CONSTRUCTION
1. INSTALL EROSION CONTROLS PER APPROVED PLAN.
 2. TEMPORARY CONTROLS TO BE INSPECTED AND MAINTAINED WEEKLY AND PRIOR TO ANTICIPATED RAINFALL EVENTS, AND AFTER RAINFALL EVENTS, AS NEEDED. CONTRACTOR/OWNER SHALL PROVIDE A CONTACT NAME AND NUMBER FOR EROSION CONTROL ISSUES.
 3. CONDUCT DEMOLITION ACTIVITIES, IF APPLICABLE.
 4. CONSTRUCT DRAINAGE IMPROVEMENTS, IF APPLICABLE.
 5. CONSTRUCT CURB INLET PROTECTION AT THE TIME OF CURB INLET INSTALLATION.
 6. CONSTRUCT DEVELOPMENT PER APPROVED PLANS.
 7. INSTALL STREETScape AND/OR LANDSCAPING IMPROVEMENTS.
 8. CONTRACTOR TO VEGETATE ANY DISTURBED AREAS ONCE FINAL GRADING IS COMPLETE, AND ESTABLISH A MIN OF 70% VEGETATION PRIOR TO COMPLETION. PER TPDES REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 DAYS. SEEDING DOES NOT CONSTITUTE AS STABILIZATION.
 9. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

CONCRETE WASHOUT AREAS

THE PURPOSE OF CONCRETE WASHOUT AREAS IS TO PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFF SITE. PERFORMING ONSITE WASHOUT IN A DESIGNATED AREA, AND TRAINING EMPLOYEES AND SUBCONTRACTORS.

THE FOLLOWING STEPS WILL HELP REDUCE STORMWATER POLLUTION FROM CONCRETE WASTES:

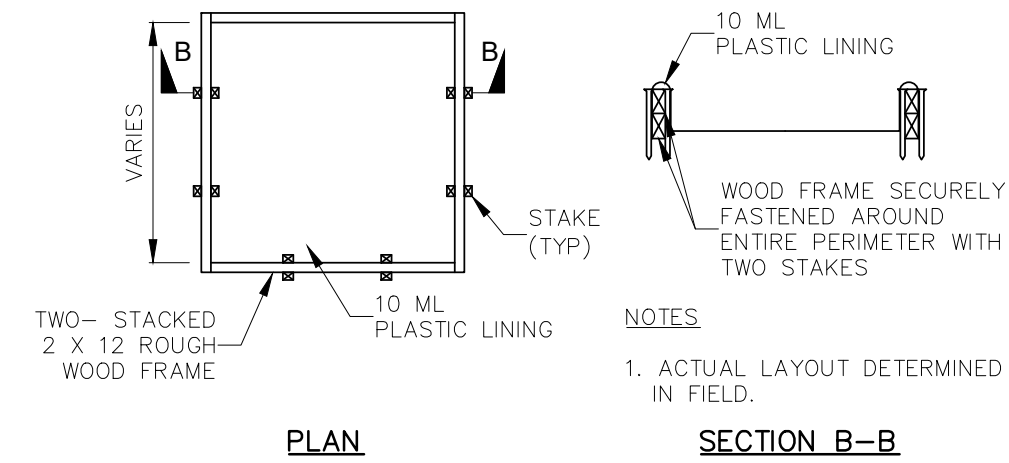
- INCORPORATE REQUIREMENTS FOR CONCRETE WASTE MANAGEMENT INTO MATERIAL SUPPLIER AND SUBCONTRACTOR AGREEMENTS.
- AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE.
- PERFORM WASHOUT OF CONCRETE TRUCKS IN DESIGNATED AREAS ONLY.
- DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
- DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ONSITE, EXCEPT IN DESIGNATED AREAS.

FOR ONSITE WASHOUT:

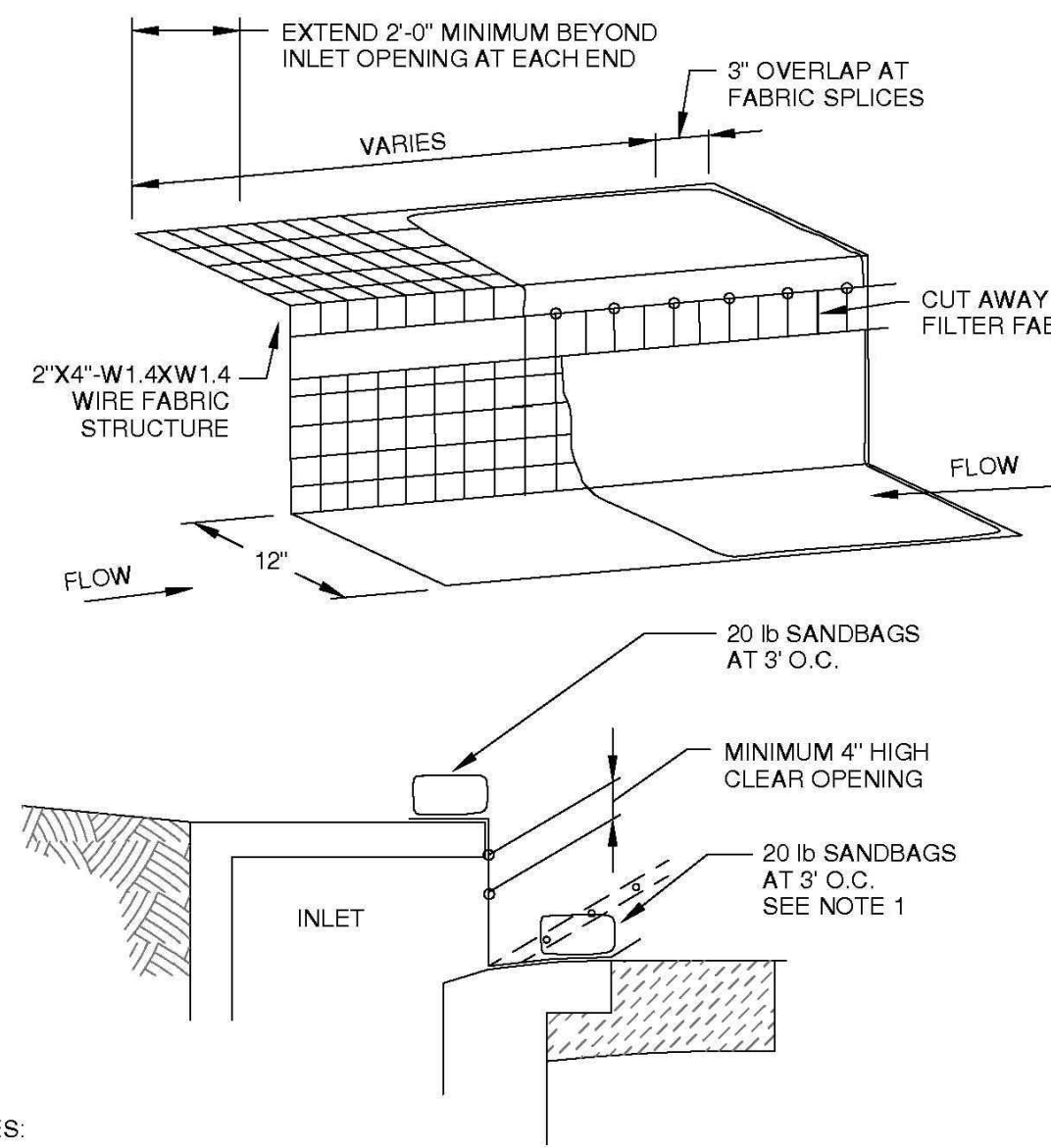
- LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE FEATURES, STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE.
- WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY.

BELOW GRADE CONCRETE WASHOUT FACILITIES ARE TYPICAL. THESE CONSIST OF A LINED EXCAVATION SUFFICIENTLY LARGE TO HOLD EXPECTED VOLUME OF WASHOUT MATERIAL. ABOVE GRADE FACILITIES ARE USED IF EXCAVATION IS NOT PRACTICAL. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE) SHOULD BE CONSTRUCTED AS SHOWN ON THE DETAILS AT THE END OF THIS SECTION, WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHOULD BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.



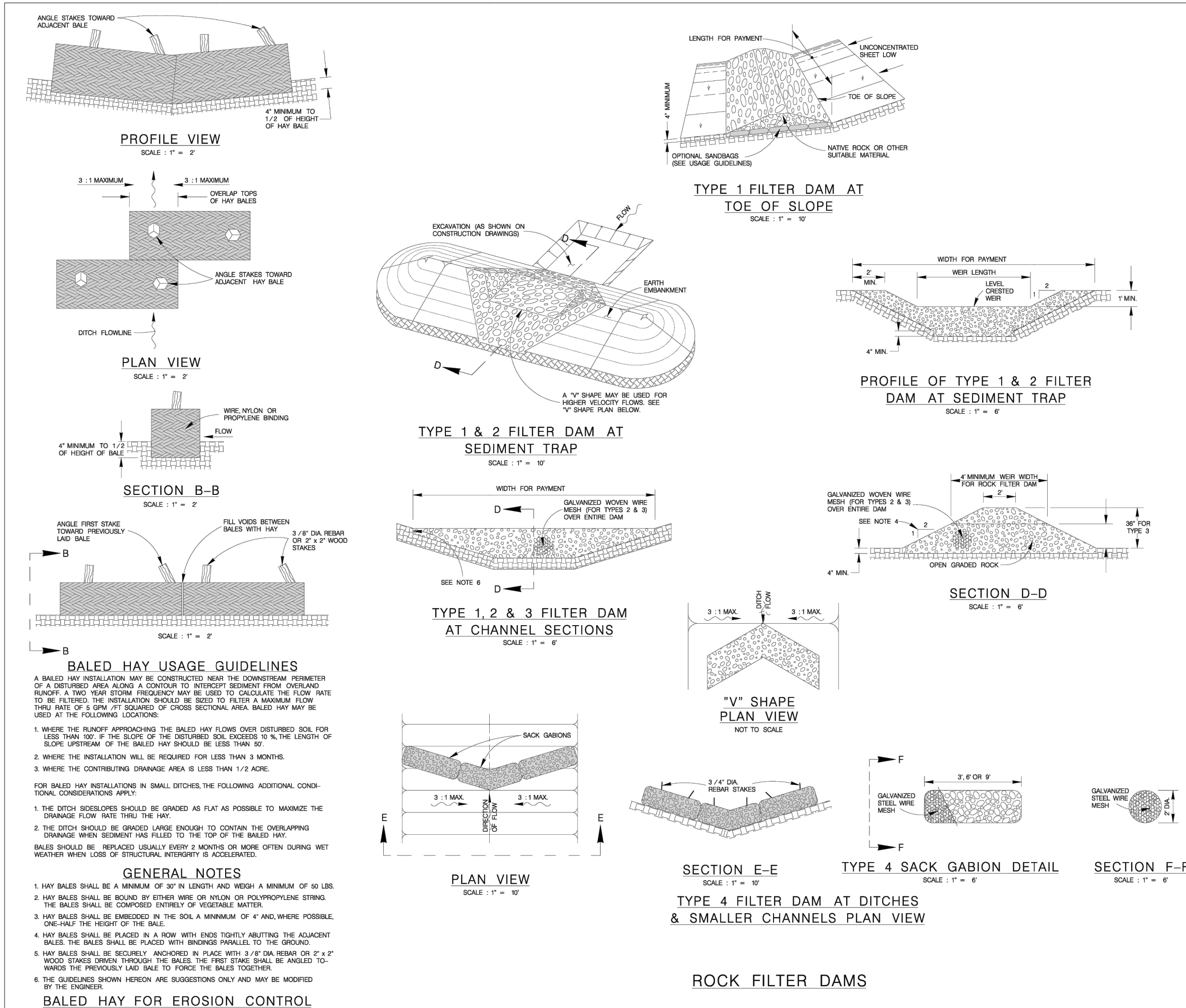
CONCRETE WASHOUT PIT DETAIL
TYPE "ABOVE GRADE"
NOT TO SCALE



NOTES:

1. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1" X 4" BOARD SECURED WITH CONCRETE NAILS 3" O.C. NAILED INTO THE GUTTER IN LIEU OF SANDBAGS TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, CLEAN ANY DIRT/DEBRIS FROM NAILING LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH SURFACE OF GUTTER.
2. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM-WATER BEGINS TO OVER-TOP THE CURB.
5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

FILTER DIKE CURB INLET PROTECTION
NOT TO SCALE



ROCK FILTER DAM USAGE GUIDELINES

ROCK FILTER DAMS SHOULD BE CONSTRUCTED DOWNSTREAM FROM DISTURBED AREAS TO INTERRUPT SEDIMENT FROM OVERLAND RUNOFF AND /OR CONCENTRATED FLOW. THE DAMS SHOULD BE DESIGNED TO FILTER A MAXIMUM FLOW RATE OF 80 GPM /FT SQUARED OF FLOW RATE. TYPE 1 (SEE HIGH WITH NO WIRE MESH).

TYPE 1 (SEE HIGH WITH NO WIRE MESH). TYPE 1 MAY BE USED AT THE TOE OF SLOPES AROUND INLETS IN SMALL DITCHES AND AT TOE OF SLOPE OUTLETS. THE TYPE OF DAM IS RECOMMENDED TO CONTROL EROSION. FROM A DRAINAGE AREA OF 5 ACRES OR LESS TYPE 1 MAY NOT BE USED IN CONCENTRATED HIGH VELOCITY FLOWS APPROXIMATELY 8 FT /SEC OR MORE. IN WHICH AGGREGATE WASH OUT MAY OCCUR. SANDBAGS MAY BE USED AT THE UNBARRICADED FOUNDATION AT DEEP AND /OR BETTER FILTERING EFFICIENCY OF LOW FLOWS IF CALLED FOR ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

GENERAL NOTES

1. IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE PLACED NEAR THE TOE OF SLOPES WHERE EROSION IS ANTICIPATED, UPTERRAIN AND /OR CONCENTRATED AT DRAINAGE STRUCTURES AND IN GULLWAYS, DITCHES AND CHANNELS TO COLLECT SEDIMENT.
2. MATERIALS AND WIRE MESH SANDBAGS (ECL) SHALL BE AS INDICATED BY THE SPECIFICATION FOR ROCK FILTER DAMS FOR EROSION AND SEDIMENTATION CONTROL.
3. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE STORM WATER POLLUTION PREVENTION PLANS.
4. SIDE SLOPES SHOULD BE 2:1 OR FLATTER DAMS WITHIN THE SAFETY ZONE SHALL HAVE SIDE SLOPES OF 6:1 OR FLATTER.
5. MAINTAIN A MINIMUM OF 1 FEET BETWEEN TOP OF ROCK FILTER DAM WEIR AND TOP OF SUBGRADEMENT FOR FILTER DAMS AT SEDIMENT TRAPS.
6. FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4" INTO THE EXISTING GROUND.
7. THE SEDIMENT TRAP FOR FLOWING OF SEDIMENT LATER RUNOFF SHALL BE OF THE DIMENSIONS SHOWN ON THE PLANS.
8. ROCK FILTER DAMS TYPES 2 & 3 SHALL BE SECURED WITH 10 GAUGE GALVANIZED WIRE MESH WITH 4" DIAMETER REBAR/ROCK OPENINGS. THE AGGREGATE SHALL BE PLACED ON THE MESH TO THE RIGHT AND SLOPES BEHIND THE MESH SHALL BE HOLDED AT THE UPTERRAIN SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO PREVENT THE CONCENTRATED SIDE USING WIRE TIE OR HOG RINGS. IN STREAM USE THE MESH SHOULD BE SECURED OR STAKED TO THE STREAM BED PRIOR TO AGGREGATE PLACEMENT.
9. SAND BAGGONS SHOULD BE STAKED DOWN WITH 3/4" DIA REBAR STAKES.
10. FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.).
11. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

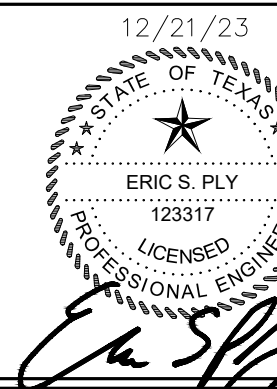
JANUARY 2005

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 2

% SUBMITTAL PROJECT NO. _____ DATE _____
DRAWN BY: V. MESAQUEZ CHECKED BY: _____ SHEET NO. _____ OF _____

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

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TBPE FIRM F-10961
TBPLS FIRM 1053600



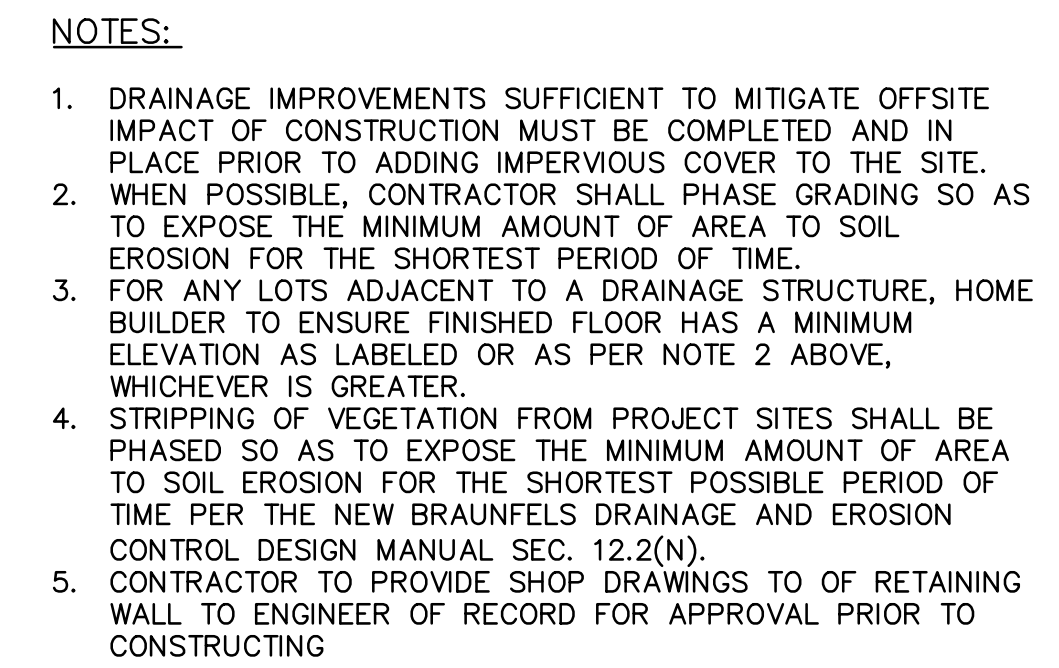
EROSION CONTROL
DETAILS
VOGES SUBDIVISION
UNIT 3

REVISION	DESCRIPTION	DATE
NO.		

DATE: DECEMBER 2023
DRAWN BY: MP
DESIGNED BY: MP
REVIEWED BY: ESP

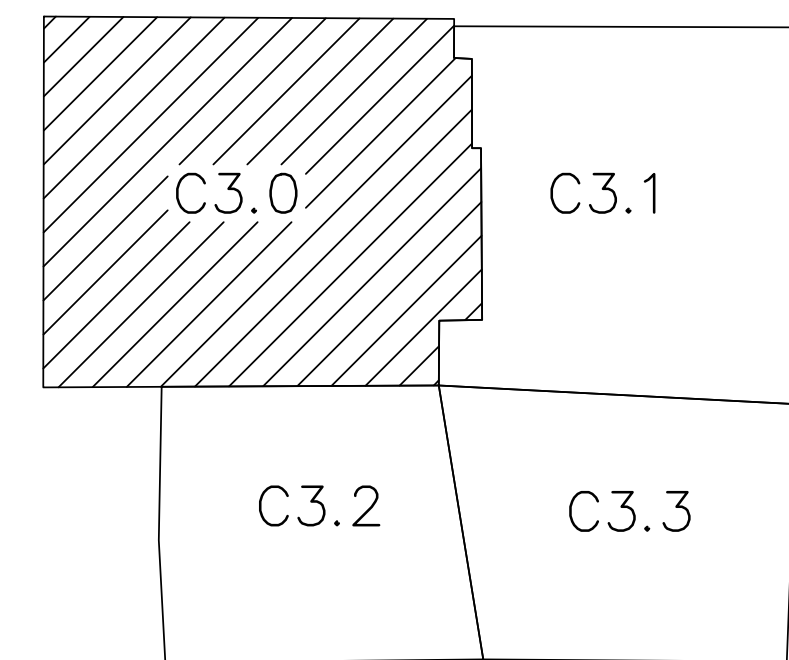
HMT PROJECT NO.: 248.014

SHEET
C2.1



NOTE TO CONTRACTOR:
PADS AND SWALES SHALL
BE CONSIDERED PART OF
THE FINAL GRADING AND
WILL BE INCLUDED IN THE
BID PRICE FOR EXCAVATION
AND EMBANKMENT

MATCHLINE
SEE C3.1



REFER TO THE COVER SHEET
FOR BENCHMARK INFORMATION.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN ON APPROXIMATE ELEVATIONS. ONLY THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCY 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

LEGEND

EXISTING CONTOURS

PROPOSED CONTOURS

BUILDING SETBACK LINE

UTILITY EASEMENT

DRAINAGE EASEMENT

LOT GRADING
SEE DETAILS SHEET 9

DRAINAGE FLOW DIRECTION

MINIMUM FINISHED FLOOR ELEVATION

RETAINING WALL


NOTES:

1. DRAINAGE IMPROVEMENTS SUFFICIENT TO MITIGATE OFFSITE IMPACT OF CONSTRUCTION MUST BE COMPLETED AND IN PLACE PRIOR TO ADDING IMPERVIOUS COVER TO THE SITE.
2. WHEN POSSIBLE, CONTRACTOR SHALL PHASE GRADING SO AS TO EXPOSE THE MINIMUM AMOUNT OF AREA TO SOIL EROSION FOR THE SHORTEST PERIOD OF TIME.
3. FOR ANY LOTS ADJACENT TO A DRAINAGE STRUCTURE, HOME BUILDER TO ENSURE FINISHED FLOOR HAS A MINIMUM ELEVATION AS LABELED OR AS PER NOTE 2 ABOVE, WHICHEVER IS GREATER.
4. STRIPPING OF VEGETATION FROM PROJECT SITES SHALL BE PHASED SO AS TO EXPOSE THE MINIMUM AMOUNT OF AREA TO SOIL EROSION FOR THE SHORTEST POSSIBLE PERIOD OF TIME PER THE NEW BRAUNFELS DRAINAGE AND EROSION CONTROL DESIGN MANUAL SEC. 12.2(N).
5. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO OF RETAINING WALL TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTING

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



12/21/23



ERIC S. PLY
123317
LICENSED
PROFESSIONAL ENGINEER

GRADING PLAN
(1 OF 4)

VOGES SUBDIVISION
UNIT 3

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DATE: DECEMBER 2023

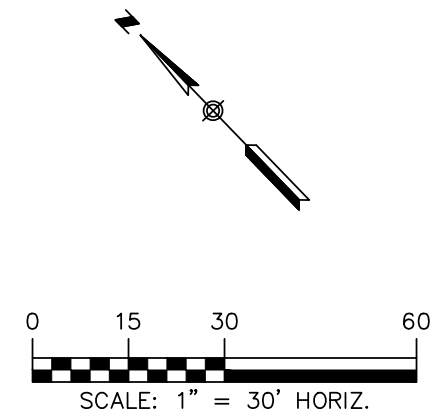
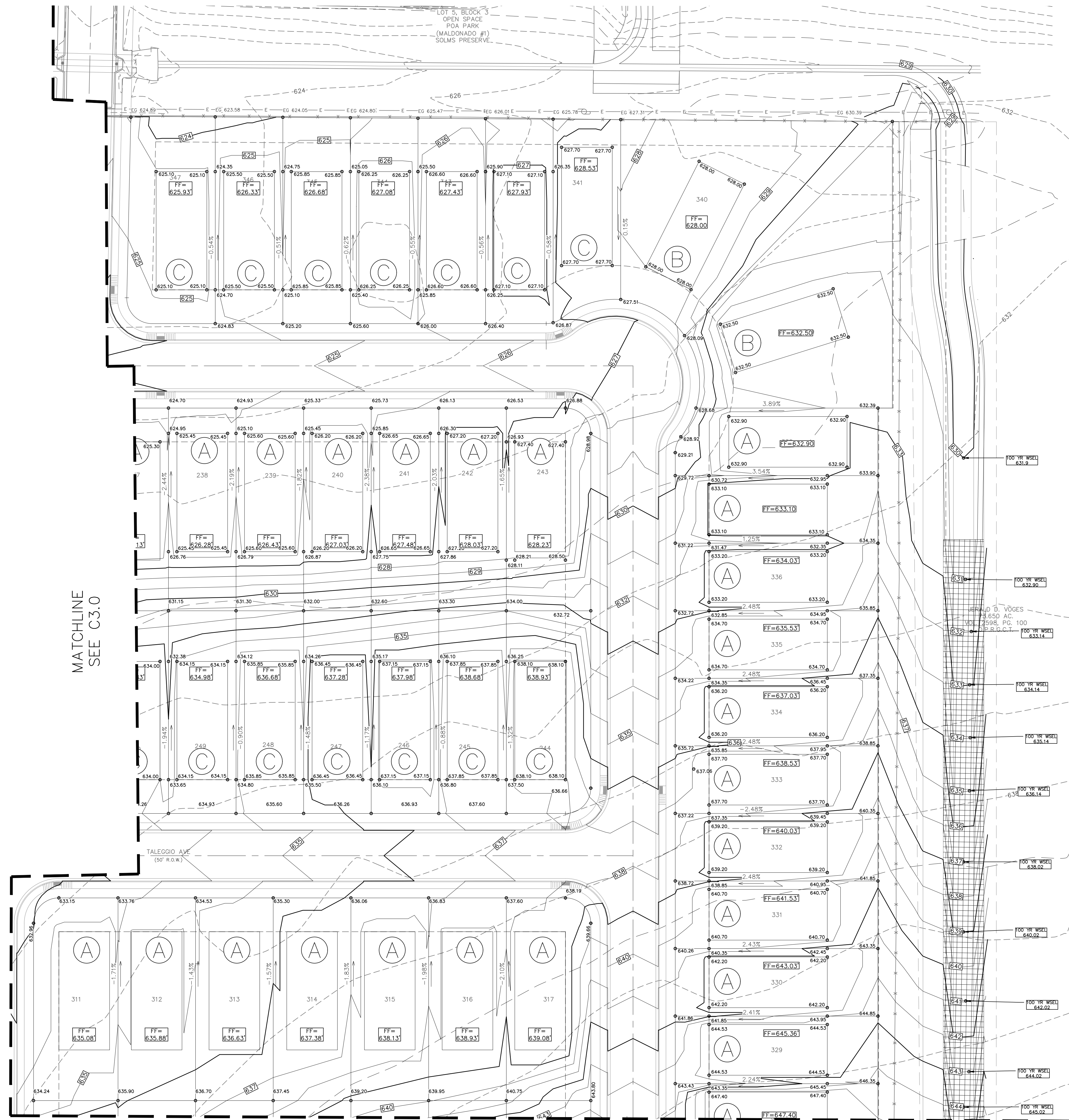
DRAWN BY: MP

DESIGNED BY: MP

REVIEWED BY: ESP

HMT PROJECT NO.:
248.014

SHEET
C3.0

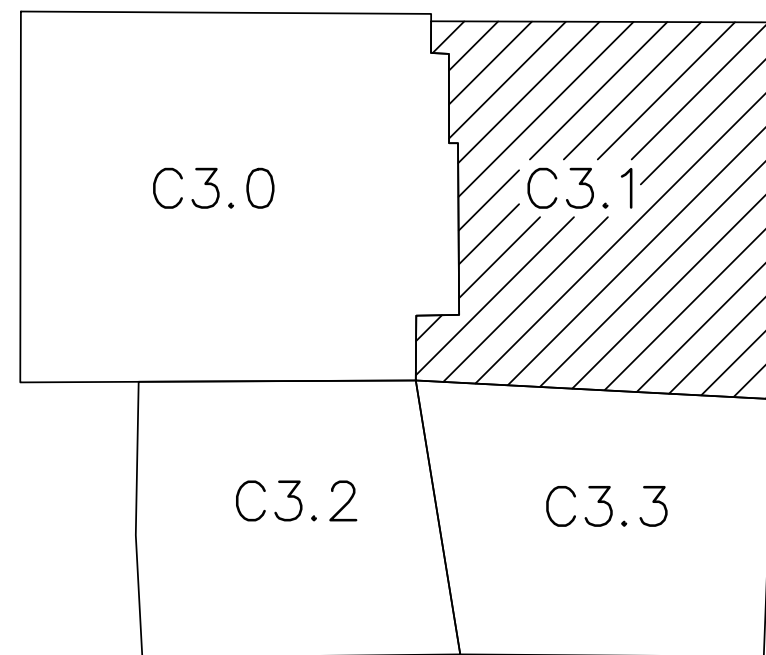


LEGEND	
— 700 —	EXISTING CONTOURS
— 701 —	PROPOSED CONTOURS
B.L.	BUILDING SETBACK LINE
U.E.	UTILITY EASEMENT
D.E.	DRAINAGE EASEMENT
LOT GRADING	SEE DETAILS SHEET 9
→	DRAINAGE FLOW DIRECTION
FF=XXX.X'	MINIMUM FINISHED FLOOR ELEVATION
	RETAINING WALL

NOTES:

1. DRAINAGE IMPROVEMENTS SUFFICIENT TO MITIGATE OFFSITE IMPACT OF CONSTRUCTION MUST BE COMPLETED AND IN PLACE PRIOR TO ADDING IMPERVIOUS COVER TO THE SITE.
2. WHEN POSSIBLE, CONTRACTOR SHALL PHASE GRADING SO AS TO EXPOSE THE MINIMUM AMOUNT OF AREA TO SOIL EROSION FOR THE SHORTEST PERIOD OF TIME.
3. FOR ANY LOTS ADJACENT TO A DRAINAGE STRUCTURE, HOME BUILDER TO ENSURE FINISHED FLOOR HAS A MINIMUM ELEVATION AS LABELED OR AS PER NOTE 2 ABOVE, WHICHEVER IS GREATER.
4. STRIPPING OF VEGETATION FROM PROJECT SITES SHALL BE PHASED SO AS TO EXPOSE THE MINIMUM AMOUNT OF AREA TO SOIL EROSION FOR THE SHORTEST POSSIBLE PERIOD OF TIME PER THE NEW BRAUNFELS DRAINAGE AND EROSION CONTROL DESIGN MANUAL SEC. 12.2(N).
5. CONTRACTOR TO PROVIDE SHOP DRAWINGS TO OF RETAINING WALL TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTING

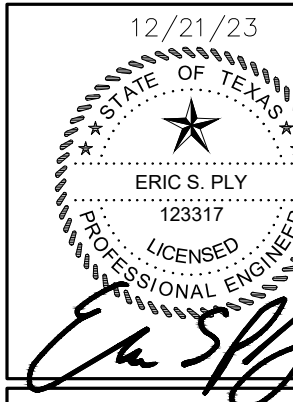
NOTE TO CONTRACTOR:
PADS AND SWALES SHALL
BE CONSIDERED PART OF
THE FINAL GRADING AND
WILL BE INCLUDED IN THE
BID PRICE FOR EXCAVATION
AND EMBANKMENT



REFER TO THE COVER SHEET
FOR BENCHMARK INFORMATION.

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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



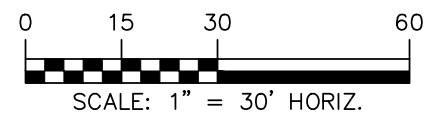
GRADING PLAN
(2 OF 4)

VOGES SUBDIVISION
UNIT 3

NO.	REVISION	DESCRIPTION	REVISION DATE

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C3.1

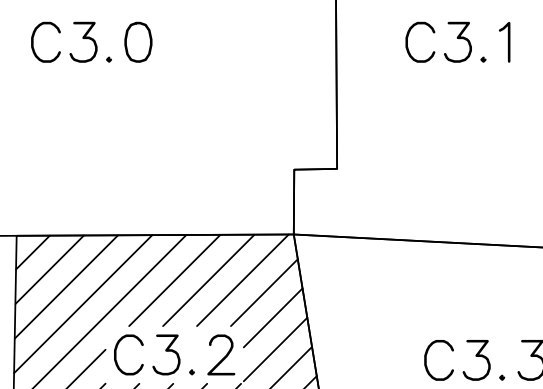


MATCHLINE
SEE C3.0



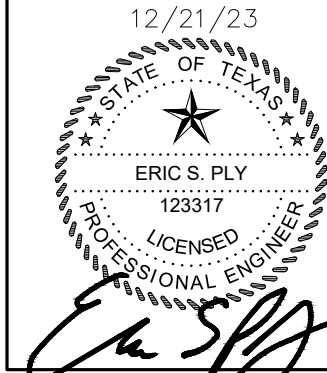
1. DRAINAGE IMPROVEMENTS SUFFICIENT TO MITIGATE OFFSITE IMPACT OF CONSTRUCTION MUST BE COMPLETED AND IN PLACE PRIOR TO ADDING IMPERVIOUS COVER TO THE SITE.
2. WHEN POSSIBLE, CONTRACTOR SHALL PHASE GRADING SO AS TO EXPOSE THE MINIMUM AMOUNT OF AREA TO SOIL EROSION FOR THE SHORTEST PERIOD OF TIME.
3. FOR STRIP LOTS, CONTRACTOR SHALL EXPOSE STRUCTURE, HOME BUILDER TO ENSURE FINISHED FLOOR HAS A MINIMUM ELEVATION AS LABELED OR AS PER NOTE 2 ABOVE, WHICHEVER IS GREATER.
4. STRIPPING OF VEGETATION FROM PROJECT SITES SHALL BE PHASED SO AS TO EXPOSE THE MINIMUM AMOUNT OF AREA TO SOIL EROSION FOR THE SHORTEST POSSIBLE PERIOD OF TIME FOR THE NEW RAINFALL DRAINAGE AND EROSION CONTROL DESIGN. (MANUAL, SEC. 12.2(N)).
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BIDDING PLAN (3 OF 4)

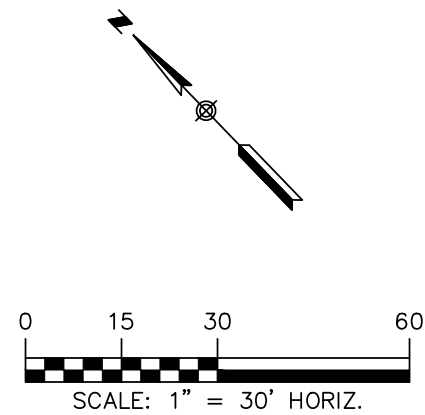
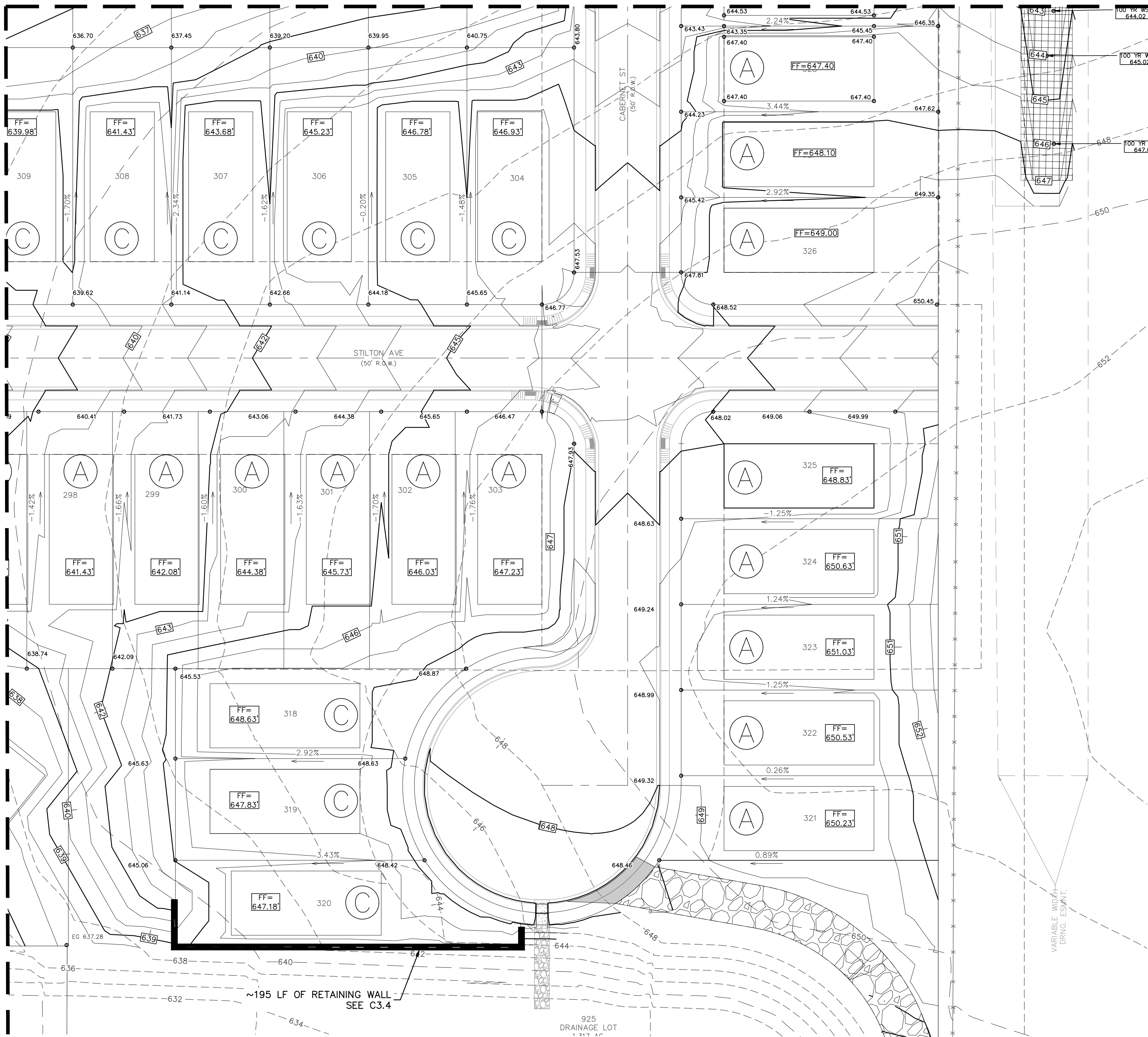
SUBDIVISION
UNIT 3

DATE:	DECEMBER 20
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	200-004

SHEET
C3.2

Drawing Name: M:_projects\248 - voges unit 4\CD\248.014_GRAVING.dwg User: mdt-p Dec 21, 2023 4:44pm

MATCHLINE
SEE C3.1

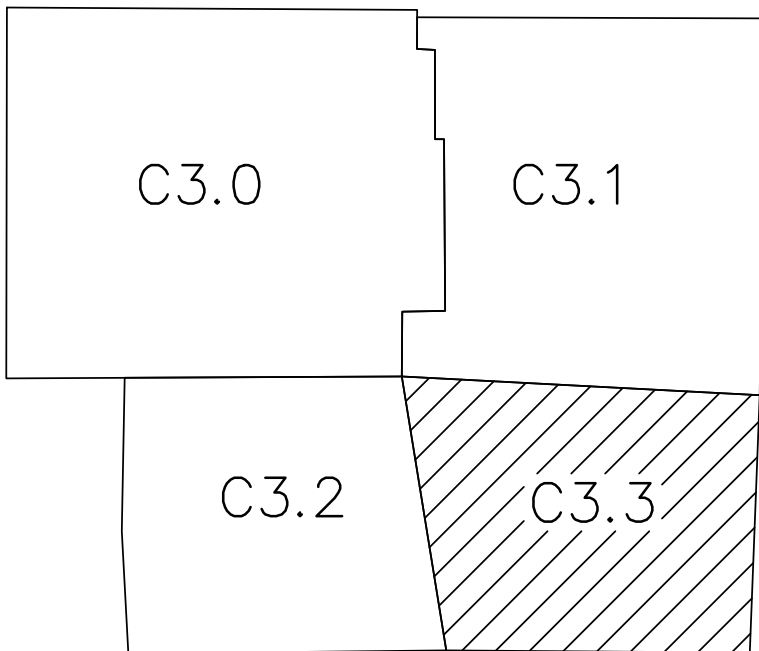


LEGEND	
— 700 —	EXISTING CONTOURS
— 700 —	PROPOSED CONTOURS
B.L.	BUILDING SETBACK LINE
U.E.	UTILITY EASEMENT
D.E.	DRAINAGE EASEMENT
LOT GRADING	SEE DETAILS SHEET 9
→	DRAINAGE FLOW DIRECTION
FF=XXX.X'	MINIMUM FINISHED FLOOR ELEVATION
≡	RETAINING WALL

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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



GRADING PLAN
(4 OF 4)

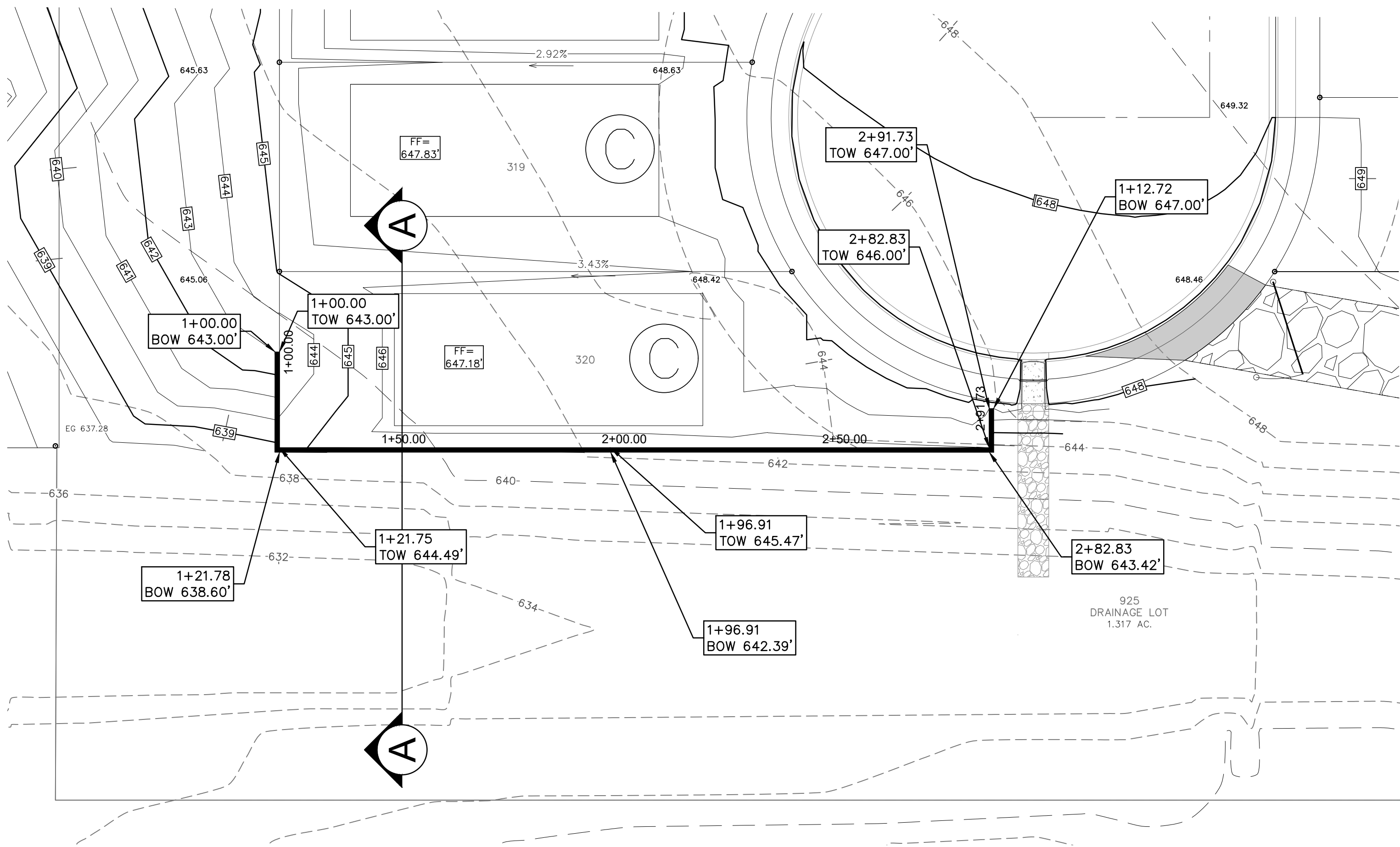
VOGES SUBDIVISION
UNIT 3

NO.	REVISION	DESCRIPTION	REVISION DATE

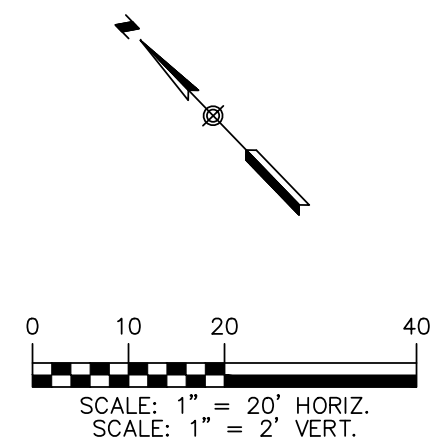
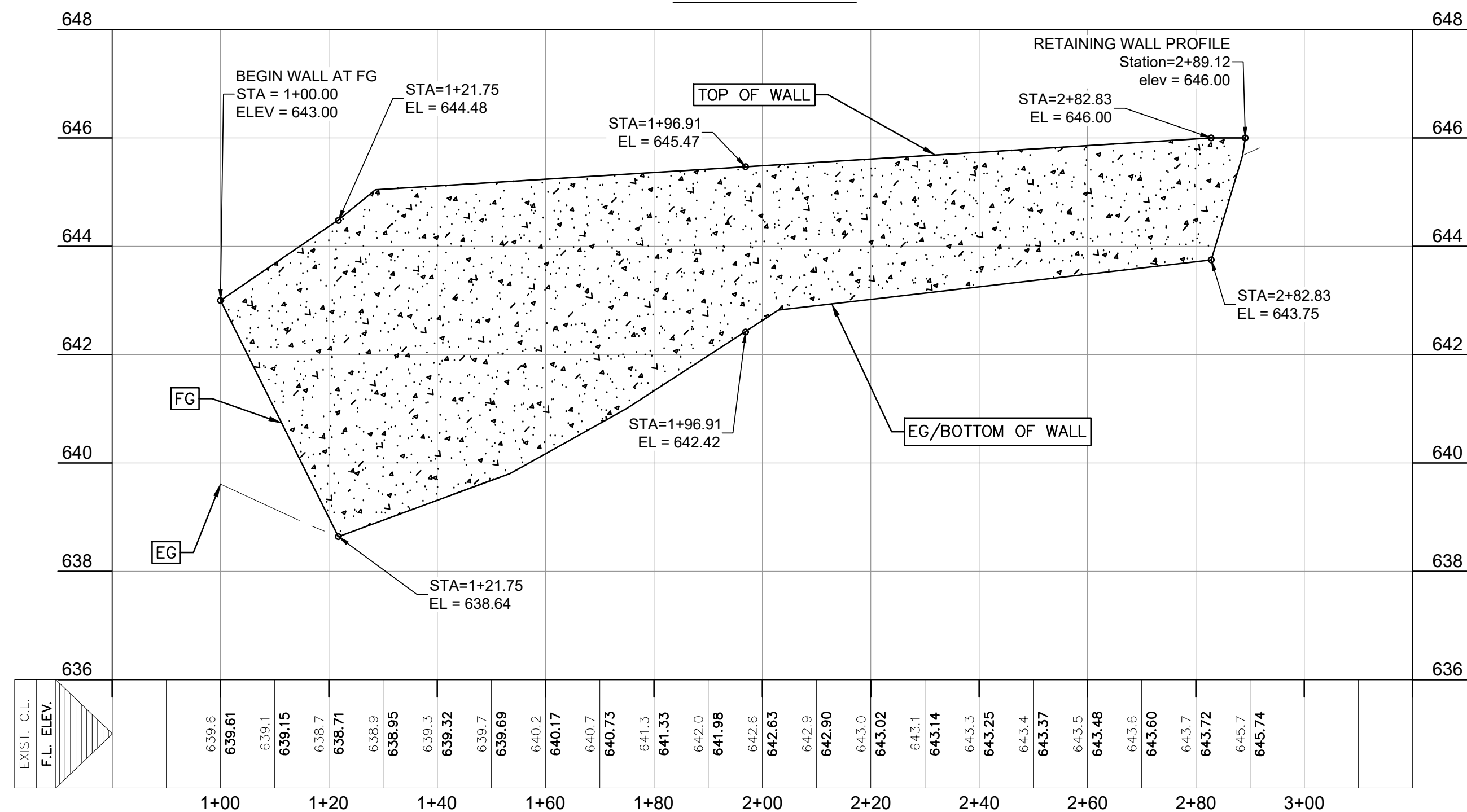
DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C3.3

Drawing Name: M:_projects\248 - voges unit 4\CD\248.014_GROUNDING.dwg User: mdt-p Dec 21, 2023 4:44pm



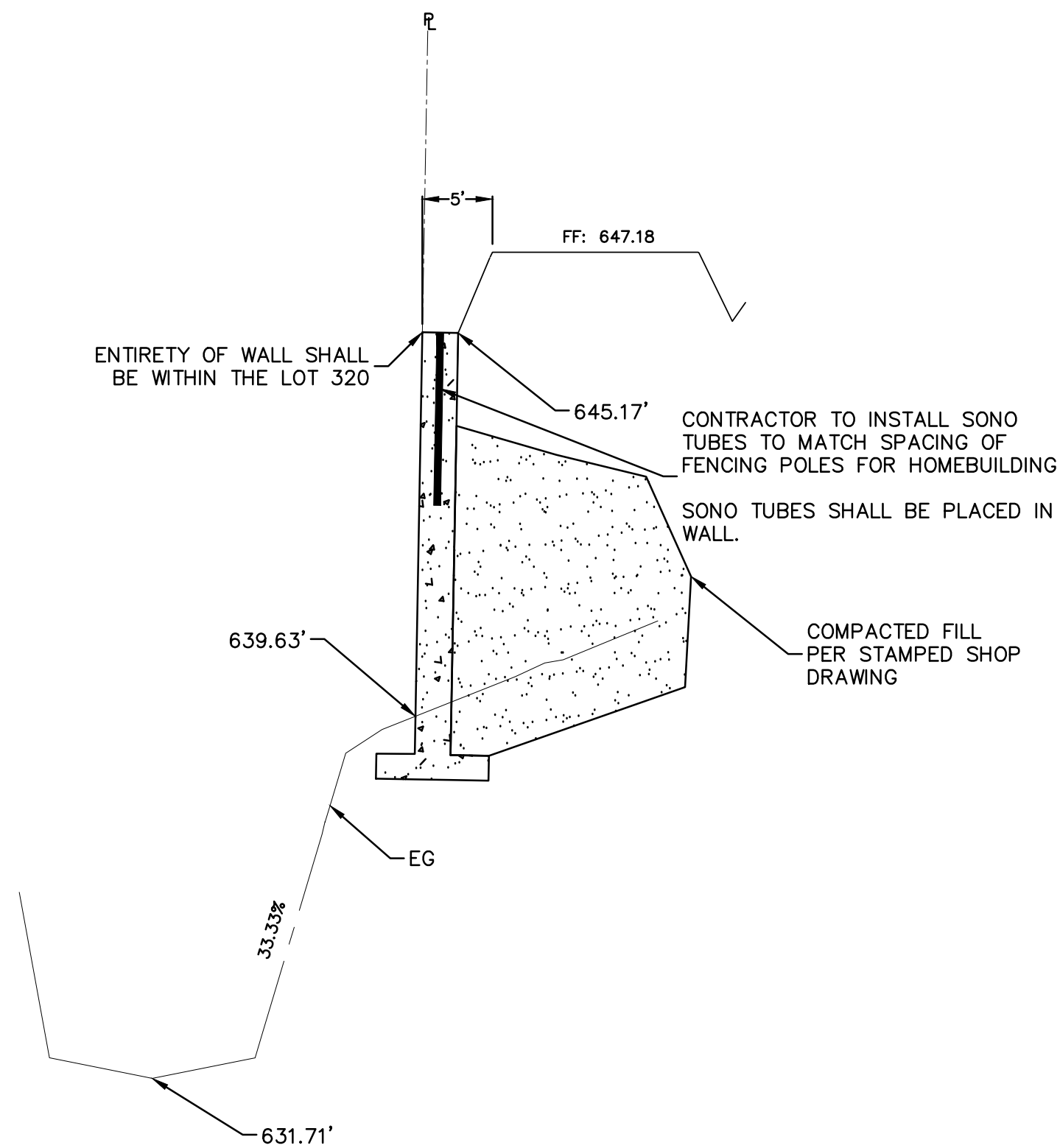
RETAINING WALL PROFILE
0+80 - 3+20



- LEGEND**
- 700 EXISTING CONTOURS
 - 700 PROPOSED CONTOURS
 - B.L. BUILDING SETBACK LINE
 - U.E. UTILITY EASEMENT
 - D.E. DRAINAGE EASEMENT
 - LOT GRADING
SEE DETAILS SHEET 9
 - DRAINAGE FLOW DIRECTION
 - FF=XXX.X' MINIMUM FINISHED FLOOR ELEVATION
 - RETAINING WALL

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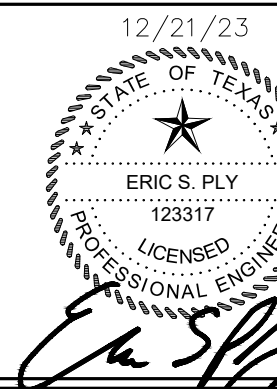
SECTION A-A
N.T.S.

NOTE TO CONTRACTOR:
RETAINING WALL DETAILS
ARE SCHEMATIC ONLY AND
SHALL NOT BE CONSIDERED
WITHOUT A STRUCTURAL
DETAILS. CONTRACTOR
SHALL BID A STRUCTURAL
RETAINING WALL.
STRUCTURAL DETAILS NOT
INCLUDED AND SHALL BE
THE RESPONSIBILITY OF
THE CONTRACTOR TO
SUPPLY STRUCTURAL SHOP
DRAWINGS FOR REVIEW BY
OWNER AND ENGINEER

REFER TO THE COVER SHEET
FOR BENCHMARK INFORMATION.

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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



RETAINING WALL

VOGES SUBDIVISION
UNIT 3

NO.	REVISION	DESCRIPTION	DATE

DATE: DECEMBER 2023

DRAWN BY: MP

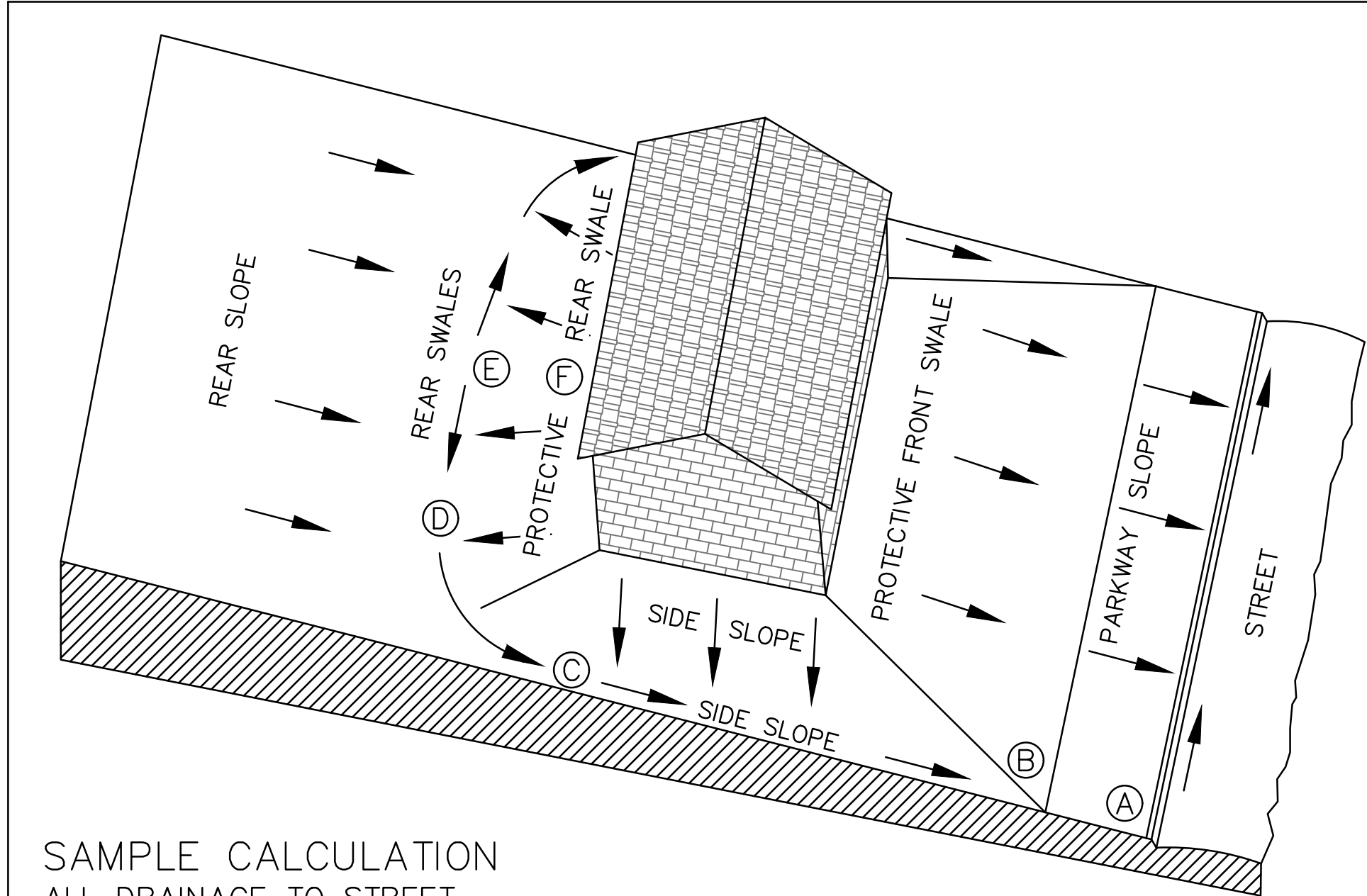
DESIGNED BY: MP

REVIEWED BY: ESP

HMT PROJECT NO.:
248.014

SHEET
C3.4

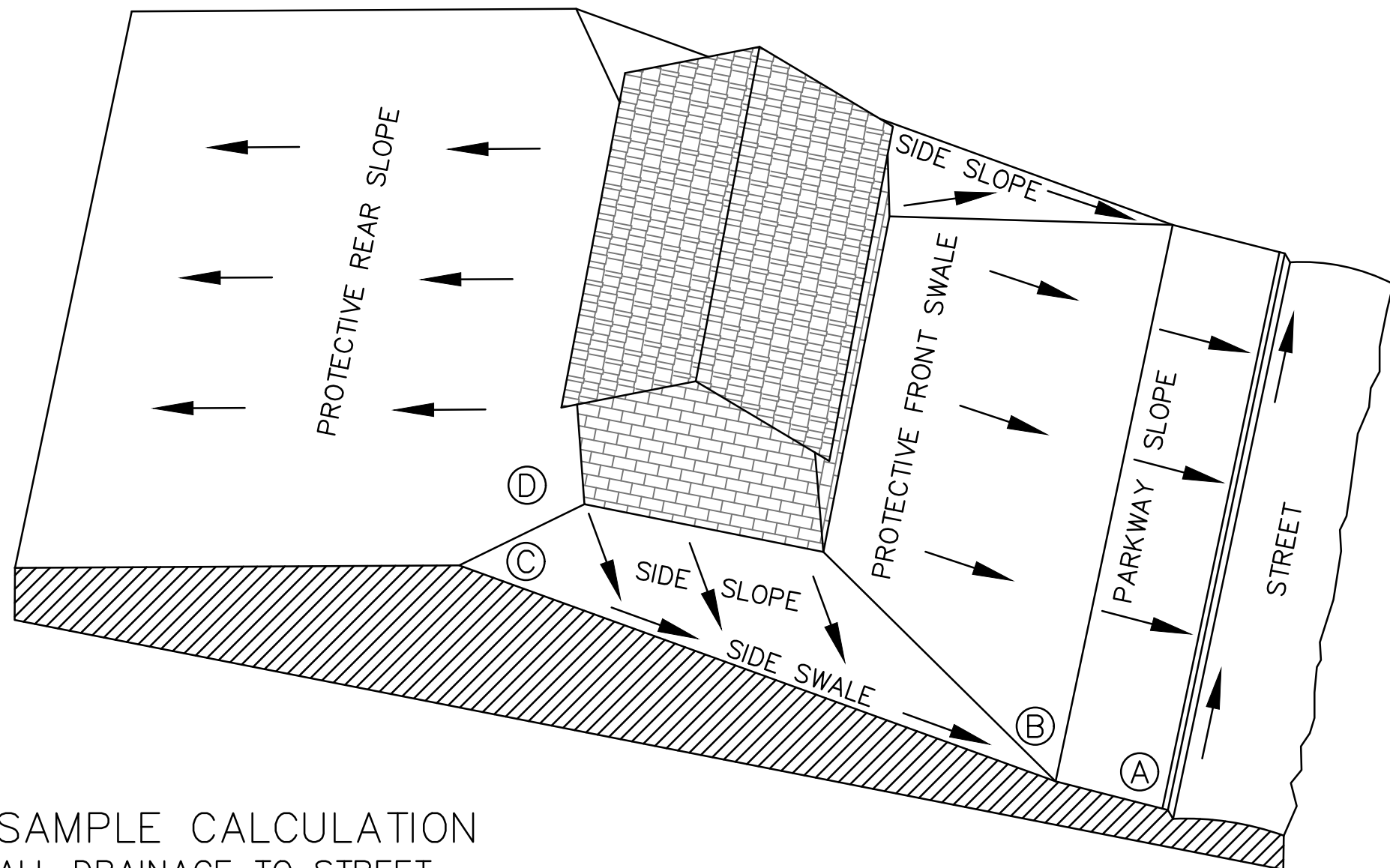
Drawing Name: W:_Projects\248 - Rauch Coleman Homes\014 - Voges Unit A\CD's\248.014_GROUING.dwg User: matt-p Dec 21, 2023 - 6:45pm



SAMPLE CALCULATION
ALL DRAINAGE TO STREET

SAMPLE COMPUTATION OF GRADING CONTROL LINE AF FOR A 60' WIDE LOT WITH A 25' BUILDING LINE, 0.5% STREET, WITH 60' BUILDING DEPTH AND 2% SWALES.				RESULTS OF 1% SWALES		
A	CURB-TOP ON LOT LINE EXTENSION AT HIGH LOT CORNER					<u>CALCULATIONS FOR 2% SWALES</u> 15 x 0.25' = 3½" 85 x 0.25' = 21½" 16 x 0.25' = 4" 13 x 0.25' = 3½" 10 x 0.25' = 2½" <hr/> 34½"
AB	PARKWAY SLOPE: 15' GRASS AND WALK AT 1/4"/FT. (2%)	4" (0.3')	2" (0.2')	2" (0.2')		
BC	SIDE SWALE: 85' GRASS AT 1/4"/FT. (2%)	21" (1.8')	11" (0.9')	11" (0.9')		
CD	SWALE TURN WITH 10' RADIUS:16' GRASS AT 1/4"/FT. (2%)	4" (0.3')	2" (0.2')	2" (0.2')		
DE**	REAR SWALE: 13' GRASS AT 1/4"/FT. (2%)	3" (0.3')	2" (0.3')	2" (0.2')		
EF*	PROTECTIVE REAR SLOPE UP FROM HIGH POINT OF SWALES	3" (0.3')	3" (0.3')	3" (0.3')		10 x 0.25' = 2½"
SUB-TOTAL AF FROM CURB TOP TO GROUND AT REAL BLDG WALL		35" (3.0')	20" (1.7')			34½"
MINIMUM RISE FROM CURB TOP TO SLAB FLOOR: 35" + 8"		43" (3.6')	28" (2.3')			CALCULATIONS USE 0.25" PER FOOT GRADIENT FOR A 2% SWALE.
MINIMUM RISE FOR WOOD FLOOR USING 8" JOISTS: 35" + 9"		54" (4.5')	39" (3.3')			
* WHERE THERE IS A HIGH BANK NEARBY OR A LONG SLOPE TOWARD HOUSE, A MINIMUM 6" PROTECTIVE SLOPE IS REQUIRED.						
** LENGTH DE = [1/2(LOT WIDTH - (2x SWALE TURN RADIUS))] - [LOT WIDTH x (STREET GRADIENT x SWALE GRADIENT)]						

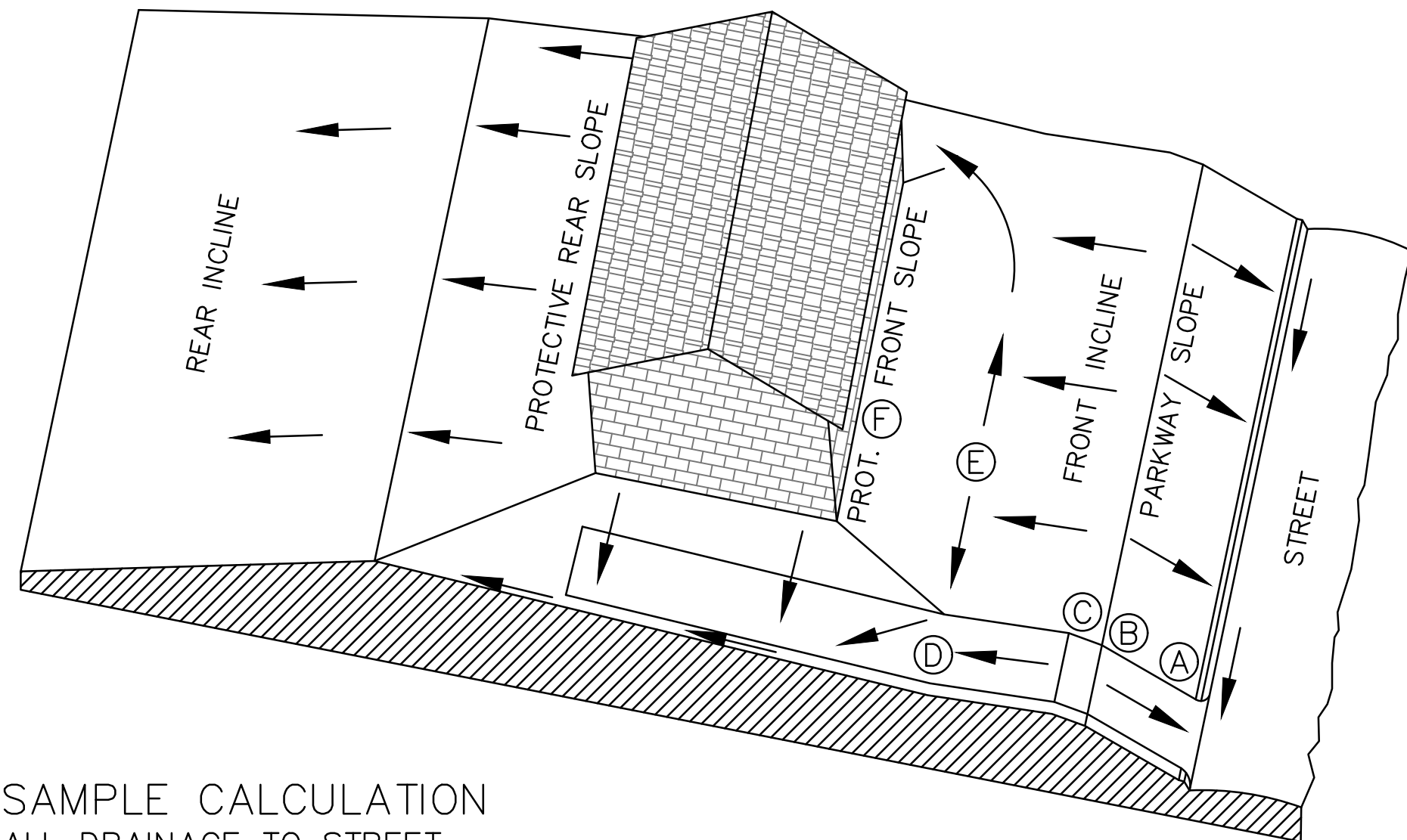
LOT TYPE ①



SAMPLE CALCULATION
ALL DRAINAGE TO STREET

SAMPLE COMPUTATION OF GRADING CONTROL LINE AF FOR A 60' WIDE LOT WITH A 25' BUILDING LINE, 0.5% STREET, WITH 60' BUILDING DEPTH AND 2% SWALES.				RESULTS OF 1% SWALES		<div>CALCULATIONS FOR 2% SWALES</div> <div>$15 \times 0.25' = 3\frac{3}{4}"$ $85 \times 0.25' = 21\frac{1}{4}"$ $6 \times 0.25' = 1\frac{1}{2}"$ <hr/>$26\frac{1}{2}"$</div>
A	CURB-TOP ON LOT LINE EXTENSION AT HIGH LOT CORNER					
AB	PARKWAY SLOPE: 15' GRASS AND WALK AT 1/4"/FT. (2%)	4" (0.3')	2" (0.2')	2" (0.2')		
BC	SIDE SWALE: 85' GRASS AT 1/4"/FT. (2%)	21" (1.8')	11" (0.9')	11" (0.9')		
CD*	PROTECTIVE SIDE SLOPE @ REAR BLDG. WALL EXTENSION	3" (0.3')	3" (0.3')	3" (0.3')		
SUB-TOTAL AD FROM CURB TOP TO GROUND AT REAL BLDG WALL		27" (2.4')	16" (1.4')	26\frac{1}{2}"		
MINIMUM RISE FROM CURB TOP TO SLAB FLOOR: 27" + 8"		35" (2.9')	24" (2.0')			<div>CALCULATIONS USE 0.25" PER FOOT GRADIENT FOR A 2% SWALE.</div>
MINIMUM RISE FOR WOOD FLOOR USING 8" JOISTS: 35" + 9"		46" (3.8')	35" (2.9')			
* WHERE THERE IS A HIGH BANK NEARBY OR A LONG SLOPE TOWARD HOUSE, A MINIMUM 6" PROTECTIVE SLOPE IS REQUIRED.						

LOT TYPE ②



SAMPLE CALCULATION
ALL DRAINAGE TO STREET

SAMPLE COMPUTATION OF GRADING CONTROL LINE \overline{AF} FOR A 60' WIDE LOT WITH A 25' BUILDING LINE, 13.5% DRIVEWAY, AND 16' FRONT SWALE \overline{DE} AT 2.0%.				RESULTS OF 1% SWALES		CALCULATIONS FOR SWALES
A	CURB-TOP HIGH SIDE OF DRIVE NEAR LOW LOT CORNER					$15 \times 0.25' = 3\frac{3}{4}"$
\overline{AB}	PARKWAY SLOPE: 15' GRASS AND WALK AT 1/4"/FT. (2%)	4" (0.3')	2" (0.2')	2" (0.2')		$0 \times 0.25' = 0"$
\overline{BC}	DRIVEWAY GRADE CHANGE: 4' VERTICAL CURVE FROM UP-GRADE DRIVE IN STREET TO DOWN-GRADE DRIVE ON LOT	0" (0.0')	0" (0.0')	0" (0.0')		$-11 \times 1.625' = -17\frac{3}{4}"$
\overline{CD}	DRIVEWAY DOWN-GRADE TO POINT 10 FEET OUT FROM FRONT OF BUILDING: -11' AT 18"/FT (13.5%)	-18" (-1.5')	-18" (-1.5')	-18" (-1.5')		$16 \times 0.25' = 4"$
\overline{DE}	FRONT SWALE: 16' GRASS AT 1/4"/FT. (2%)	4" (0.3')	2" (0.2')	2" (0.2')		$10 \times 0.25' = 2\frac{1}{2}"$
\overline{EF}^*	PROT. FRONT SLOPE UP FROM HIGH POINT OF SWALES	3" (0.3')	3" (0.3')	3" (0.3')		
SUB-TOTAL \overline{AF} FROM CURB TOP TO GROUND AT FRONT BLDG WALL		-7" (-1.0')	-11" (1.3')			
MINIMUM RISE FROM CURB TOP TO SLAB FLOOR: -7" + 8"		1" (-0.3')	-3" (0.7')			
MINIMUM RISE FOR WOOD FLOOR USING 8" JOISTS: -7" + 19"		12" (-0.6')	8" (0.3')			
* WHERE THERE IS A HIGH BANK NEARBY OR A LONG SLOPE TOWARD HOUSE, A MINIMUM 6" PROTECTIVE SLOPE IS REQUIRED.						

LOT TYPE ③

GENERAL SPECIFICATIONS FOR SITE PREPARATION

GENERAL DESCRIPTION

THIS ITEM SHALL CONSIST OF ALL CLEARING AND PREPARATION OF LAND TO BE FILLED, FILLING OF THE LAND, SPREADING, COMPACTION TESTING AND INSPECTION OF THE FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING OF THE CUT AND FILL AREAS TO CONFORM WITH THE LINES, GRADES AND SLOPES AS SHOWN ON THE APPROVED PLANS.

SCARIFYING THE AREA TO BE FILLED

ALL ORGANIC MATTER SHALL BE REMOVED FROM THE SURFACE UPON WHICH THE FILL IS TO BE PLACED, AND SURFACE SHALL BE DISKED OR SCARIFIED TO A MINIMUM DEPTH OF SIX INCHES (6"), ALL SURFACE RUTS OR OTHER UNEVEN FEATURES WILL BE LEVELED PRIOR TO FIELD DENSITY TESTING.

COMPACTING THE AREA TO BE FILLED

FOLLOWING THE CLEARING AND DISKING OR SCARIFYING OF THE FILL AREA, IT SHALL BE BLADED UNTIL IT IS UNIFORM AND FREE FROM LARGE CLODS. THE AREA SHALL BE BROUGHT TO ADEQUATE MOISTURE CONTENT AND COMPACTED (TYPICALLY) TO NOT LESS THAN NINETY PERCENT (90%) OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CURRENT ASTM D 1557 COMPACTION PROCEDURE, OR 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE THD-TEX-113-E COMPACTION PROCEDURE. ALL AREAS EXCEEDING (6") SIX INCHES IN DEPTH, MUST MEET WITH FHWA/HUD HANDBOOK 4140.30 SPECIFICATIONS FOR LAND DEVELOPMENTS ON CONTROLLED EARTHWORK, DATASHEET 79G.

FILL MATERIALS

THE MATERIALS USED SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES, SUCH AS TREES, BRUSH AND RUBBISH.

DEPTH AND MIXING OF FILL LAYERS

THE SELECTED FILL MATERIAL SHALL BE PLACED IN LEVEL, UNIFORM LAYERS WHICH, WHEN COMPACTED, SHALL HAVE A DENSITY CONFORMING TO THE STIPULATED ABOVE. EACH LAYER SHALL BE THOROUGHLY MIXED DURING THE SPREADING TO ENSURE UNIFORMITY OF MATERIAL IN EACH LAYER. COMPACTED LAYER THICKNESS MAY VARY DEPENDING ON THE COMPACTION EQUIPMENT OF THE DEMONSTRATED CAPABILITY.

ROCK

WHEN FILL MATERIAL INCLUDES ROCK, THE MAXIMUM ROCK SIZE SHALL BE AS APPROVED BY THE GEOTECHNICAL ENGINEER. NO LARGE ROCKS SHALL BE ALLOWED TO NEST AND ALL VOIDS MUST BE FILLED WITH SMALL STONES OR SOIL AND ADEQUATELY COMPACTED.

COMPACTION OF FILL LAYER

COMPACTION EQUIPMENT SHALL BE CAPABLE OF COMPACTING THE FILL TO THE SPECIFIED DENSITY. COMPACTION SHALL BE ACCOMPLISHED WHILE THE FILL MATERIAL IS AT OR NEAR THE APPROPRIATE MOISTURE CONTENT. COMPACTION OF EACH LAYER SHALL BE CONTINUOUS OVER THE ENTIRE STRUCTURAL AREA (BENEATH PROPOSED STRUCTURES).

COMPACTION OF SLOPES

THE FACES OF FILL SLOPES SHALL BE COMPACTED. COMPACTION OPERATIONS SHALL BE CONTINUED UNTIL THE SLOPE FACES ARE STABLE BUT NOT TO DENSE FOR PLANTING ON THE SLOPES. COMPACTION OF THE SLOPE FACE MAY BE DONE PROGRESSIVELY IN INCREMENTS OF THREE TO FIVE FEET (3' TO 5') IN FILL HEIGHT AS THIS FILL PROGRESSES OR AFTER THE FILL HAS BEEN BROUGHT TO ITS TOTAL HEIGHT.

DENSITY TEST

FIELD DENSITY TESTS SHALL BE PERFORMED ON ALL LAYERS OF FILL WHEN THE FILL IS BEING PLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE MAXIMUM FILL HEIGHT BETWEEN DENSITY TESTING SHALL BE TWELVE INCHES (12"). ALL TESTING SHALL BE REQUESTED BY THE CONTRACTOR TO MEET THE CONTRACTOR'S CONSTRUCTION SCHEDULE. NOTIFICATION BY THE CONTRACTOR TO CONDUCT TESTS SHALL BE AT LEAST THE DAY BEFORE. THIS NOTIFICATION SHALL INCLUDE THE FILL AREA LOCATION (LOT AND BLOCK), THE LIFT OR HEIGHT OF FILL AND APPROXIMATED DESIRED TIME OF TESTING. WHEN THESE TEST INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY, THE PARTICULAR LAYER OR PORTION SHALL BE REWORKED AND RETESTED AT THE EXPENSE OF THE CONTRACTOR UNLESS THE CONTRACTOR CAN SHOW EVIDENCE THAT CIRCUMSTANCES BEYOND HIS CONTROL REQUIRED THE RETESTING. GENERALLY, THE SPECIFIC TESTING WILL BE AS FOLLOWS AND CONDUCTED BY A GEO-TECHNICAL ENGINEER OR STAFF.

- THE LAND TO BE FILLED (PREPARED SUBGRADE) SHALL BE PREPARED AND TESTED AT A FREQUENCY AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
- THE FIRST LIFT OF COMPACTED FILL (GENERALLY 8-12 IN.) SHALL BE TESTED AS DETERMINED BY THE GEOTECHNICAL ENGINEER. ANY AREAS SUPPORTING THE PROPOSED STRUCTURES REQUIRING FILL SHALL BE TESTED FOR DENSITY COMPLIANCE.
- FILLS SHALL BE TESTED AT A MAXIMUM OF EACH TWELVE INCHES (12") OF FILL.
- TEST RESULTS WILL BE PROVIDED BY THE FIELD TECHNICIAN TO THE CONTRACTOR WHEN POSSIBLE; HOWEVER, ALL TEST RESULTS ARE TO BE REVIEWED BY THE GEOTECHNICAL ENGINEER FOR COMPLIANCE. THE ENGINEER WILL NOTIFY THE CONTRACTOR OF ALL TEST RESULTS.

CUT/FILL LOTS

AREAS INVOLVING CUT ON THE PORTION AND FILL ON ANOTHER PORTION OF A SPECIFIC LOT SHALL BE PREPARED TO A MINIMUM DEPTH OF 6 IN., AND WILL BE THE SAME MATERIAL CLASSIFICATION AT THE SAME COMPACTION AND MOISTURE CONTENT. FIELD DENSITY TESTS SHALL BE REQUIRED ON EACH CUT/FILL LOT FOR THE PURPOSE OF DETERMINING UNIFORMITY OF THE AREA SUPPORTING THE PROPOSED STRUCTURES.

HUD 79-G

HUD 79-G REQUIREMENT FOR FILL MATERIAL OF 6 INCHES AND MORE WILL BE CONDUCTED. ALL CUT AREAS WILL ALSO MEET THE REQUIREMENTS FOR HUD 79-G COMPACTION TESTING. IN ADDITION, ENGINEERS MUST PROVIDE VERIFICATION OF ALL AREAS WHICH DO NOT REQUIRE HUD 79-G. AFTER SITE GRADING IS COMPLETED, GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CONTRACTOR AND OWNER A 79-G LETTER.

DRAINAGE NOTE

FINISHED FLOOR ELEVATIONS

THE ELEVATION OF THE LOWEST FLOOR SHALL BE AT LEAST 10 INCHES ABOVE THE FINISHED GRADE OF THE SURROUNDING GROUND, WHICH SHALL BE SLOPED IN A FASHION SO AS TO DIRECT STORMWATER AWAY FROM THE STRUCTURE. PROPERTIES ADJACENT TO STORMWATER CONVEYANCE STRUCTURES MUST HAVE FLOOR SLAB ELEVATION OR BOTTOM OF FLOOR JOISTS A MINIMUM OF ONE FOOT ABOVE THE 100-YEAR WATER FLOW ELEVATION IN THE STRUCTURE. DRIVEWAYS SERVING HOUSES ON THE DOWNHILL SIDE OF THE STREET SHALL HAVE A PROPERLY SIZED CROSS SWALE PREVENTING RUNOFF FROM ENTERING THE GARAGE.



GRADING DETAILS

VOGES SUBDIVISION
UNIT 3

REVISION		DATE	
NO.	DESCRIPTION		

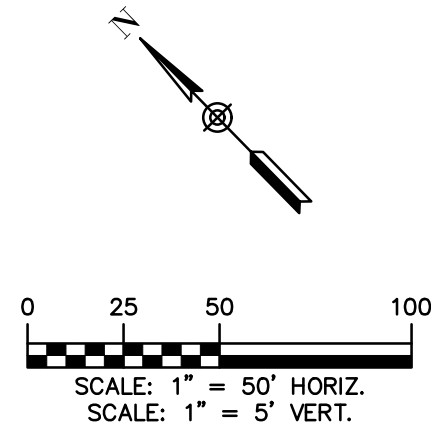
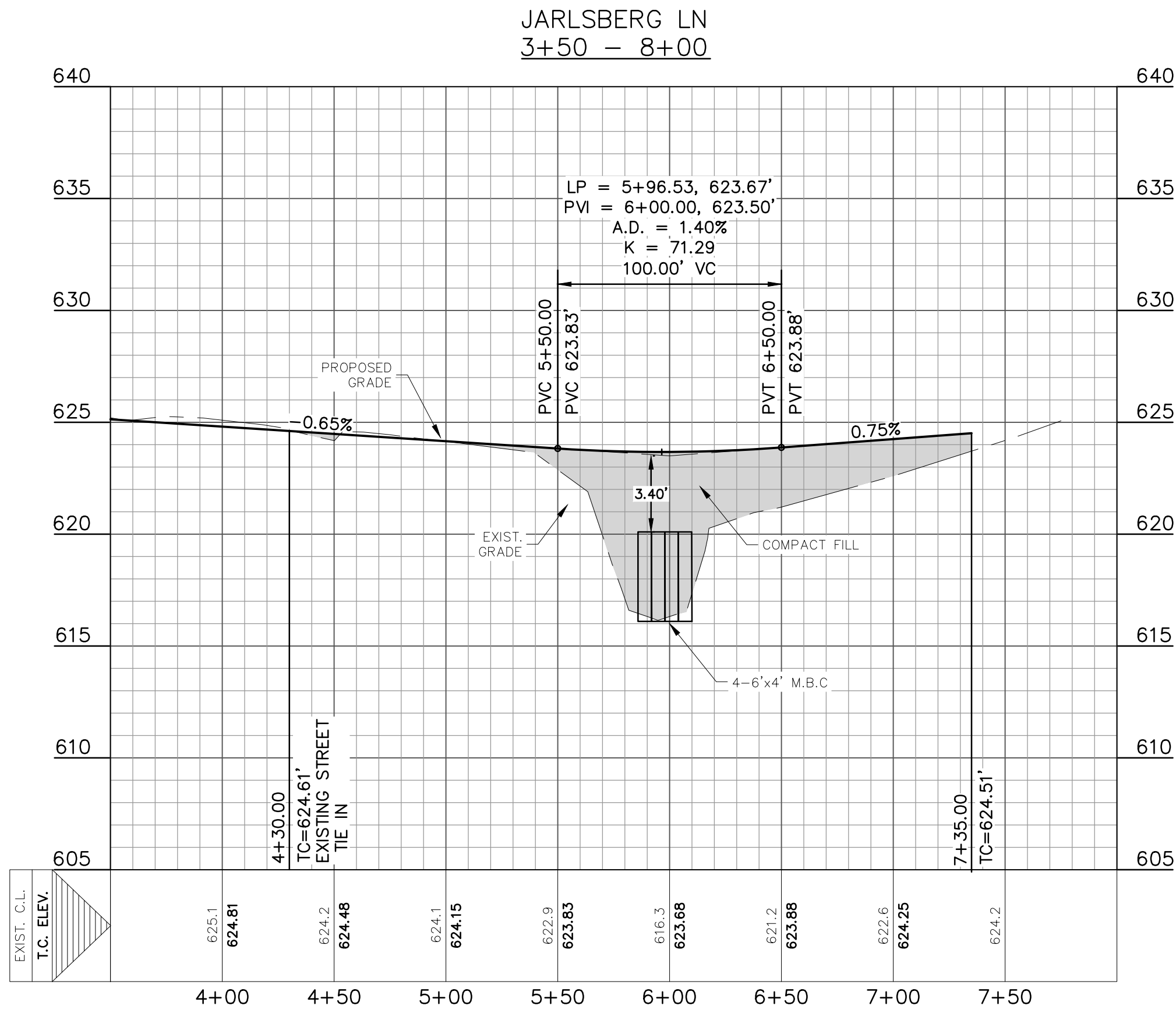
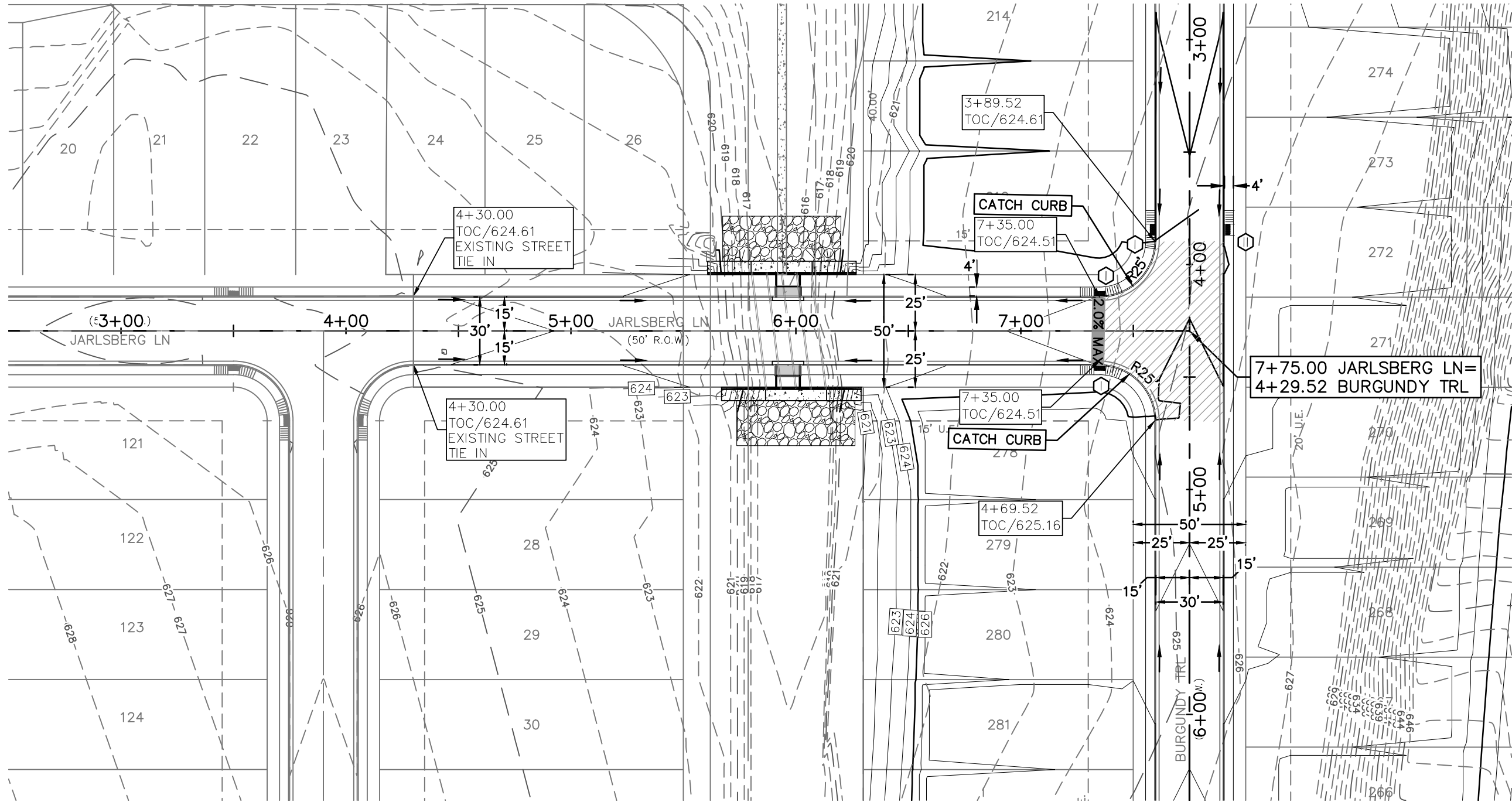
DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C3.5

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBP FIRM F-10961
TBPLS FIRM 1053600

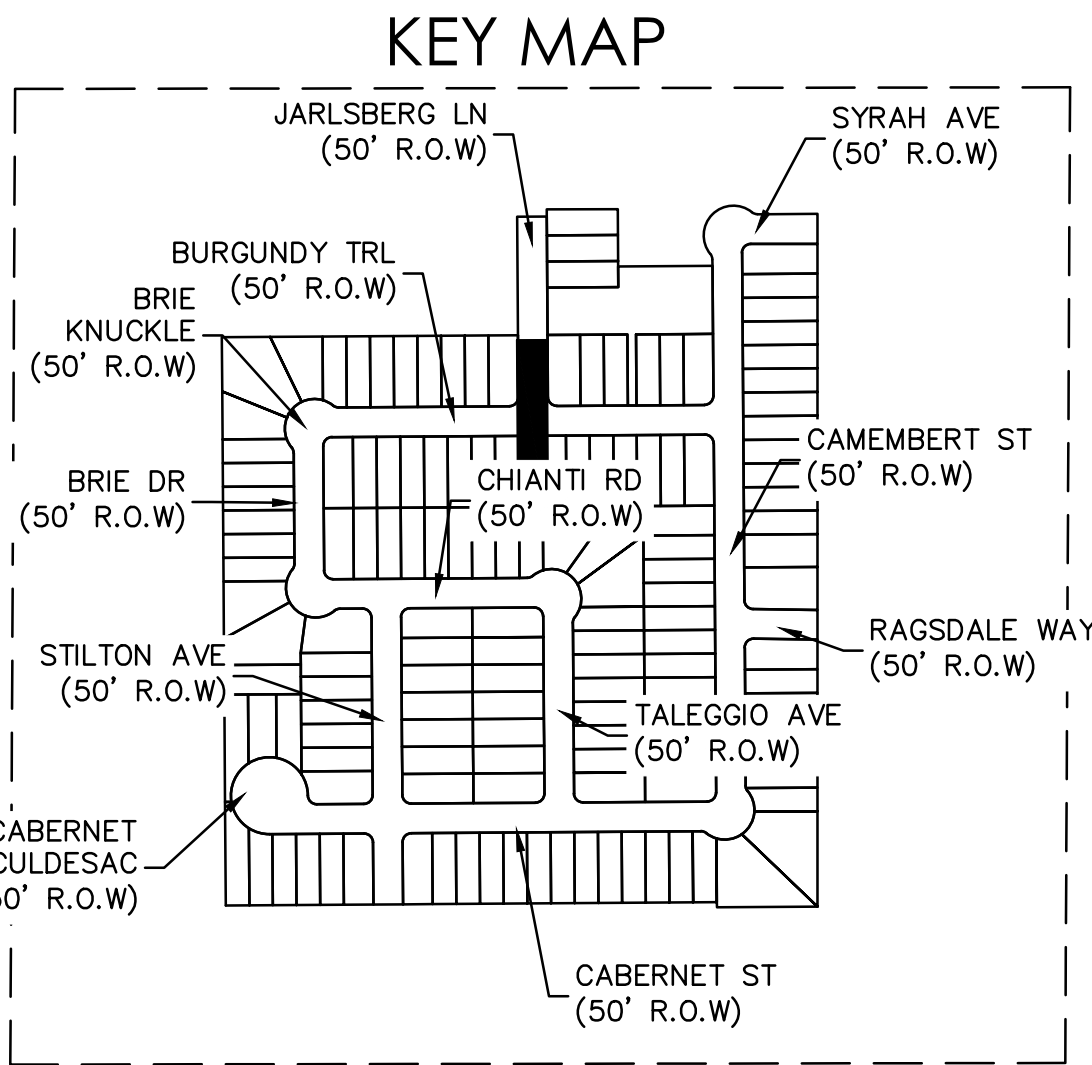


Drawing Name: M:_Projects\248 - Rauch Coleman Homes\014 - Voges Unit A\CD's\248.014 JARLSBERG LN P&P.dwg User: matt+p Dec 21, 2023 - 4:45pm



- LEGEND**
- EXISTING CONTOURS
 - PROPOSED CONTOURS
 - B.L. BUILDING SETBACK LINE
 - U.E. UTILITY EASEMENT
 - D.E. DRAINAGE EASEMENT
 - A.D.A. RAMP
 - FLOW ARROW
 - WASHOUT CROWN AREAS
 - SPILL CURB
 - EXISTING GROUND LEFT (EG LT)
 - EXISTING GROUND RIGHT (EG RT)
 - EXISTING GROUND CENTER (EG CTR)
 - PROPOSED TOP OF CURB (PR TC)
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CROSS SLOPE IN THESE AREAS
 - 2.0% MAX
 - SIDEWALK RAMP TYPE
TO BE CONSTRUCTED AT TIME OF
STREET CONSTRUCTION
(SEE DETAIL SHEET C4.17)
 - SIDEWALK TO BE CONSTRUCTED
BY SITE DEVELOPMENT CONTRACTOR

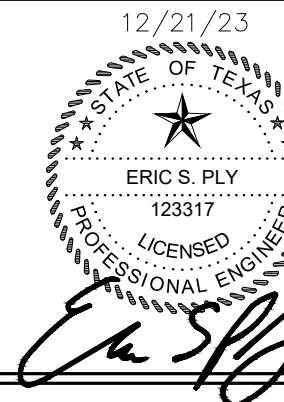
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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
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JARLSBERG LN

P&P

VOGES SUBDIVISION
UNIT 3

NO.	REVISION	DESCRIPTION	DATE

DATE: DECEMBER 2023

DRAWN BY: MP

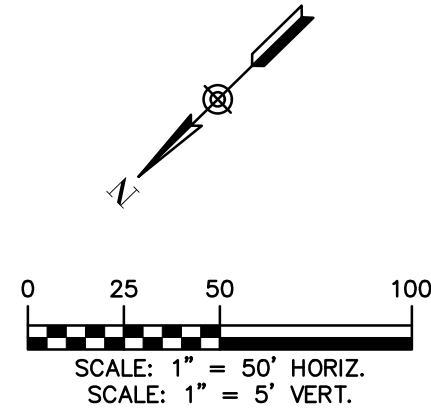
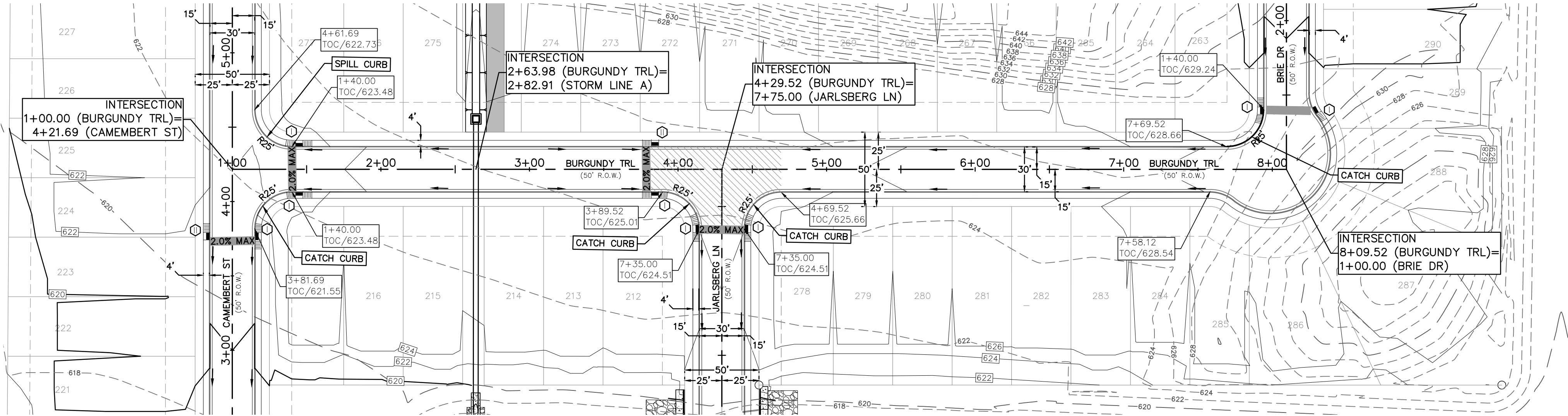
DESIGNED BY: MP

REVIEWED BY: ESP

HMT PROJECT NO.:
248.014

SHEET
C4.0

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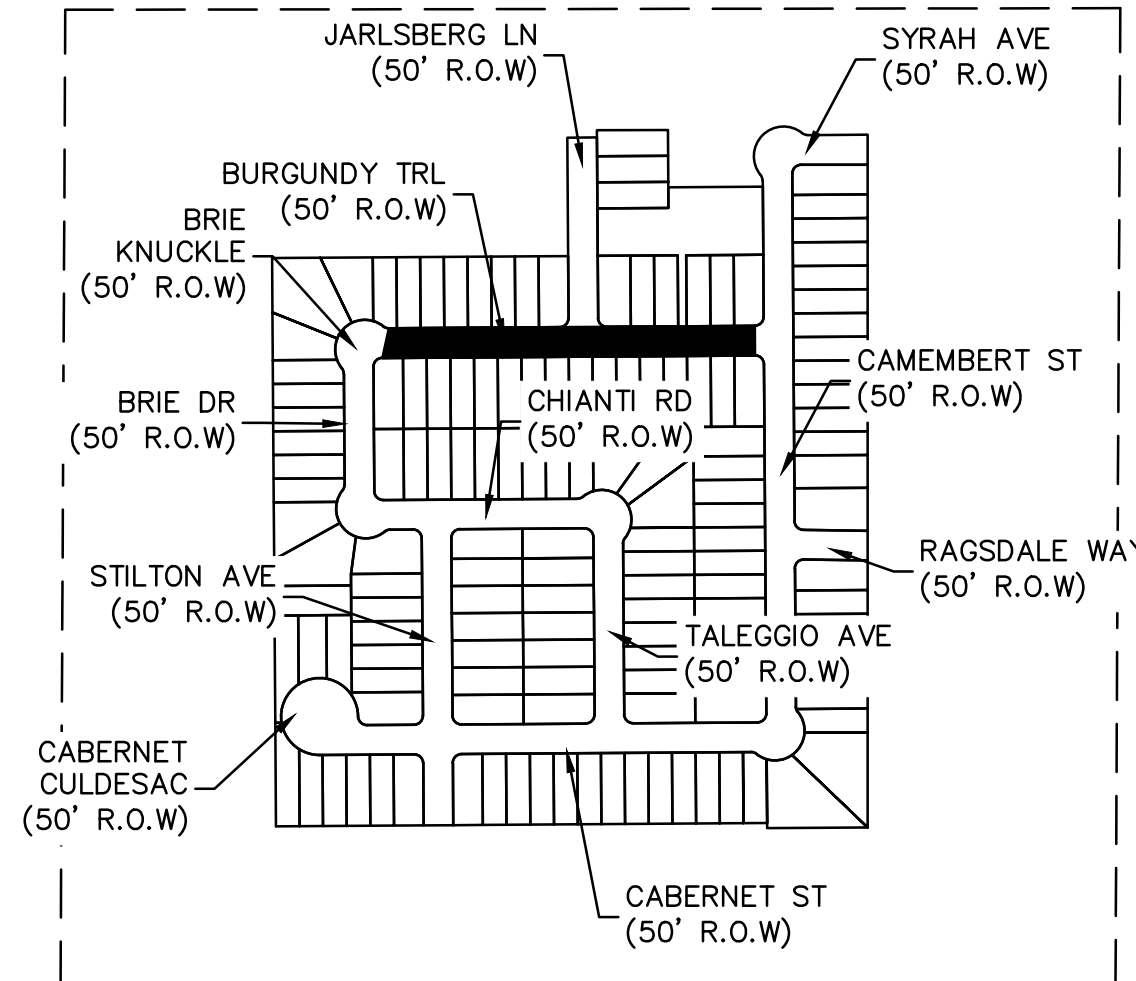


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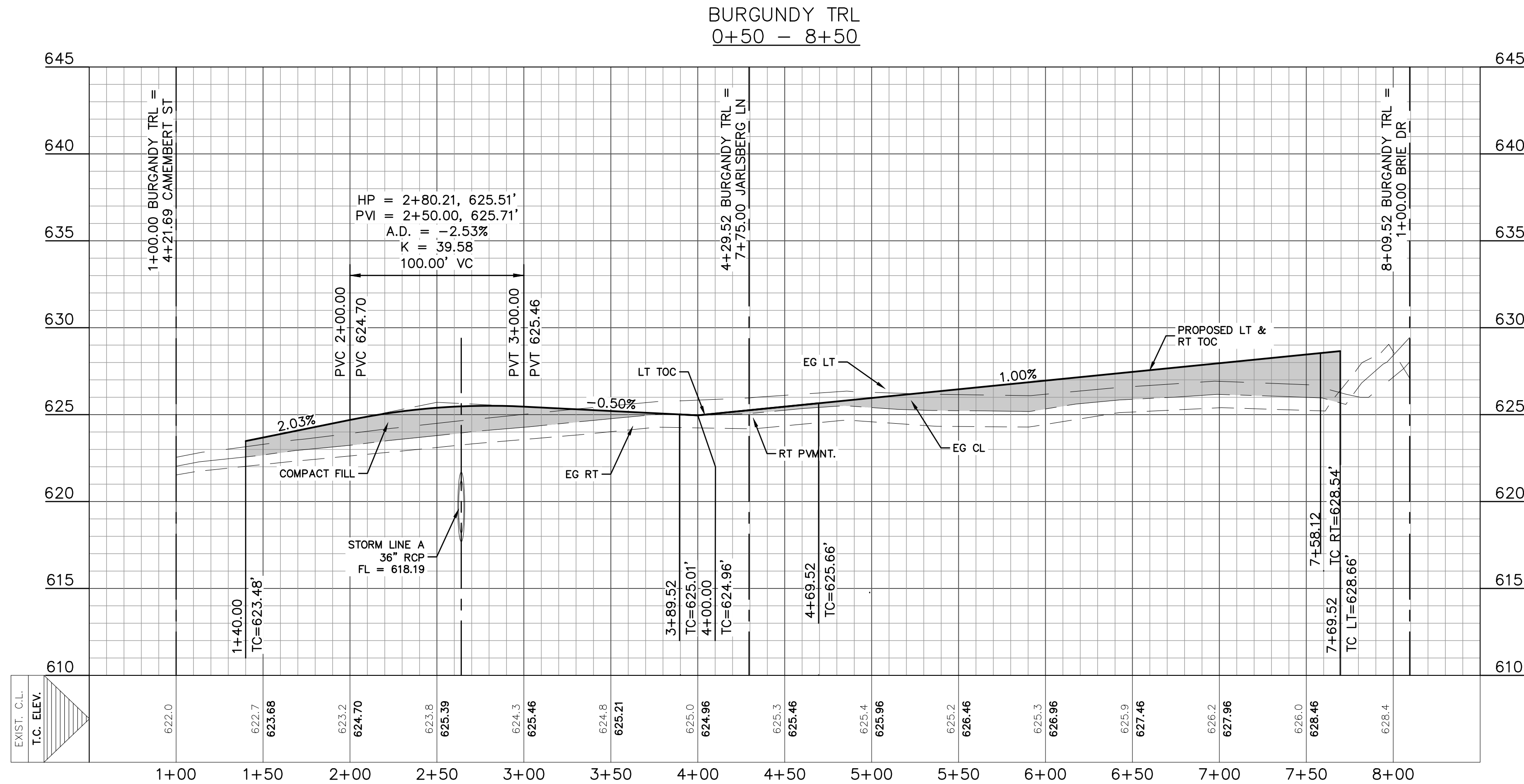
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KEY MAP

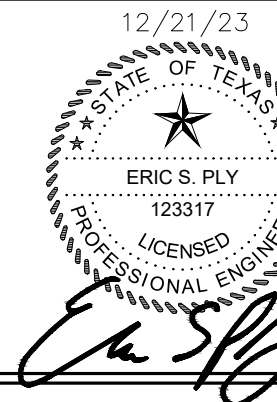


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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



**BURGUNDY
TRL P&P**

**VOGES SUBDIVISION
UNIT 3**

NO.	REVISION	DESCRIPTION	REVISION DATE

DATE: DECEMBER 2023

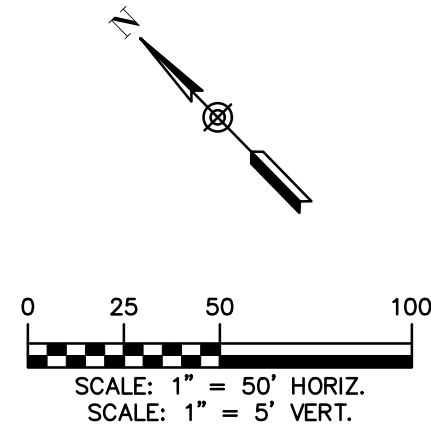
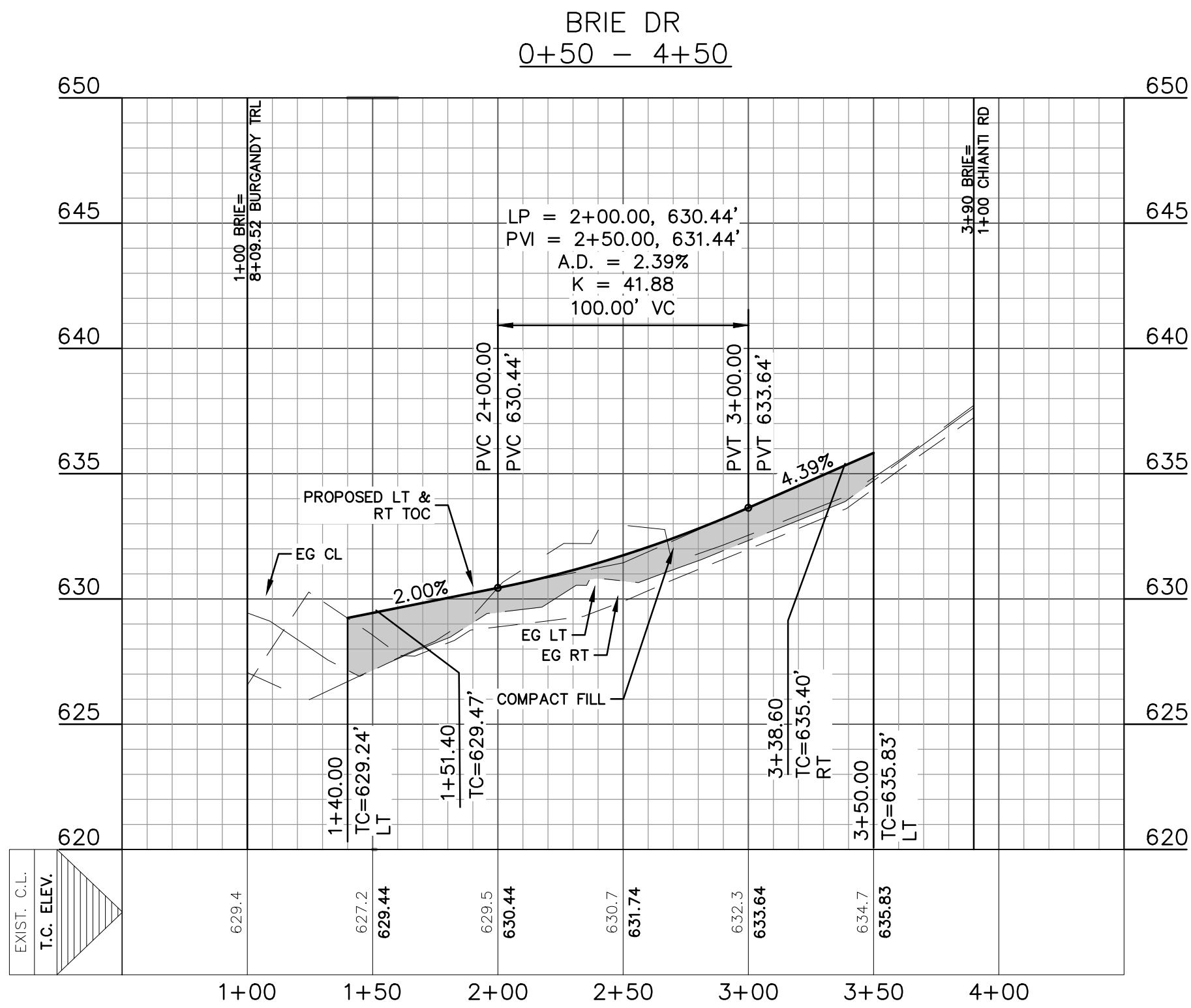
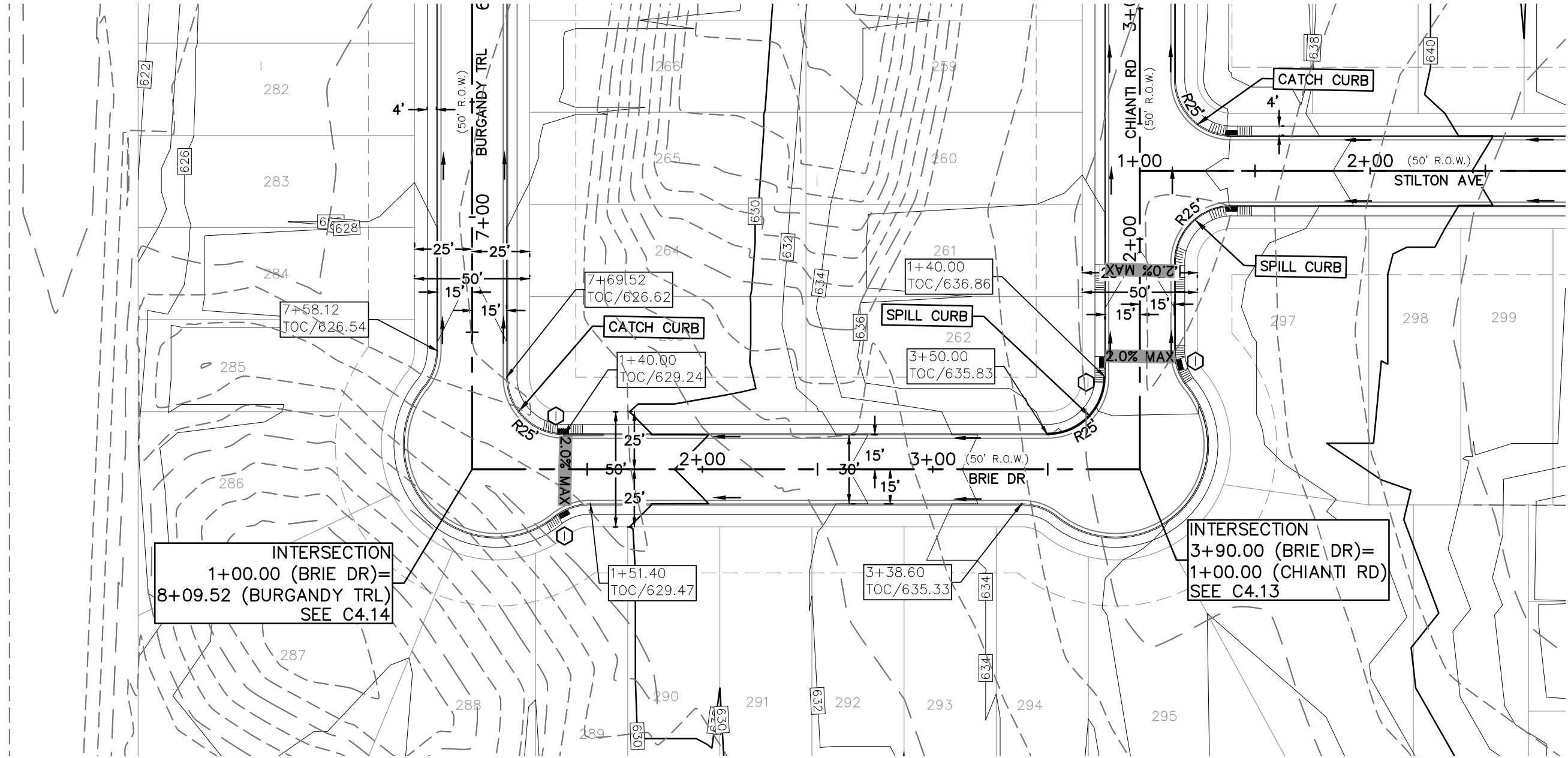
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REVIEWED BY: ESP

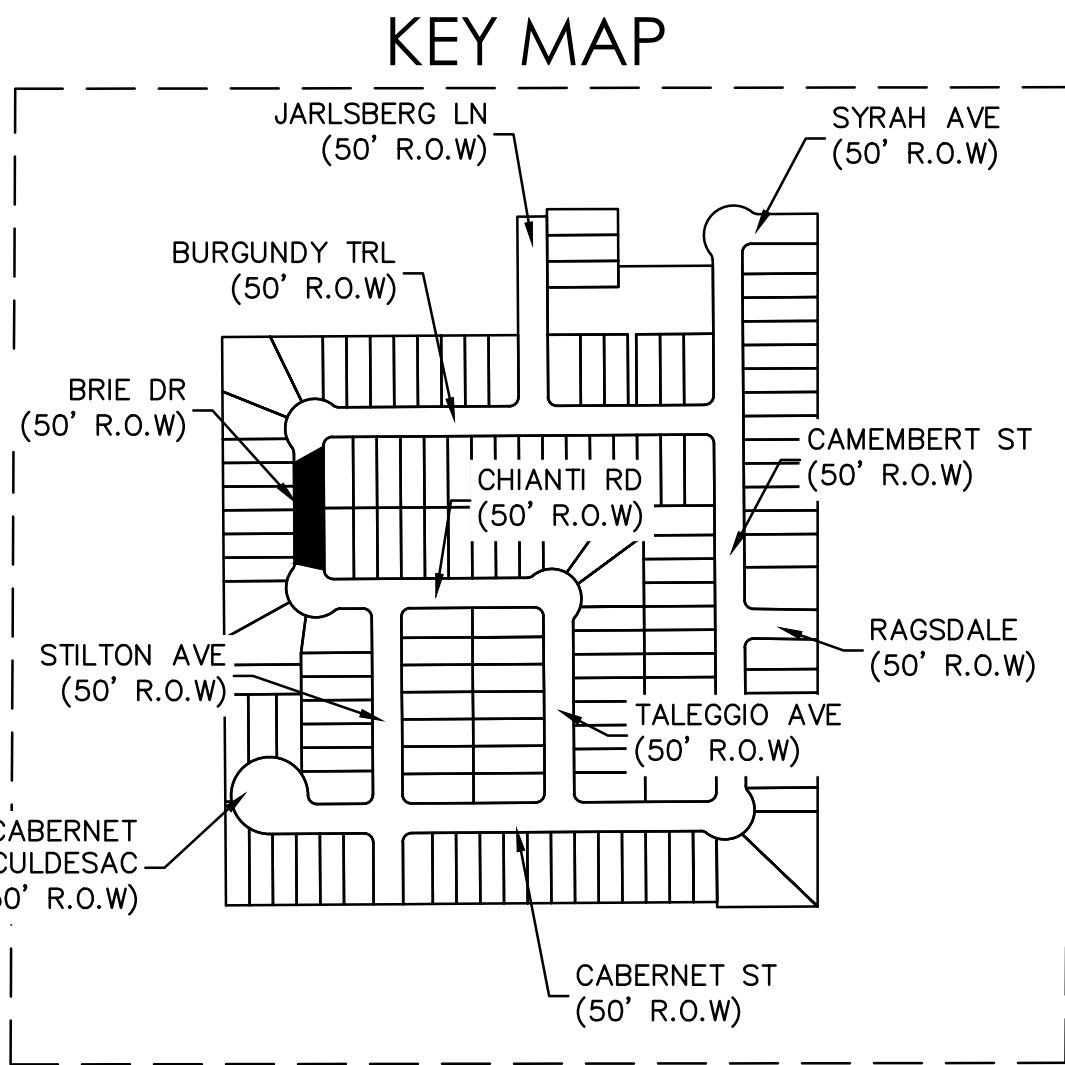
HMT PROJECT NO.:
248.014

**SHEET
C4.1**



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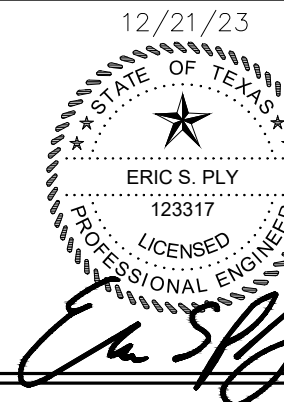
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NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



BRIE DR P&P

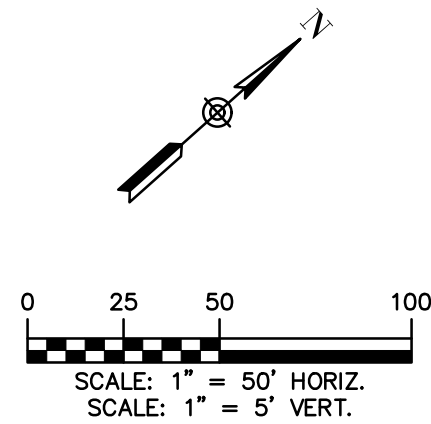
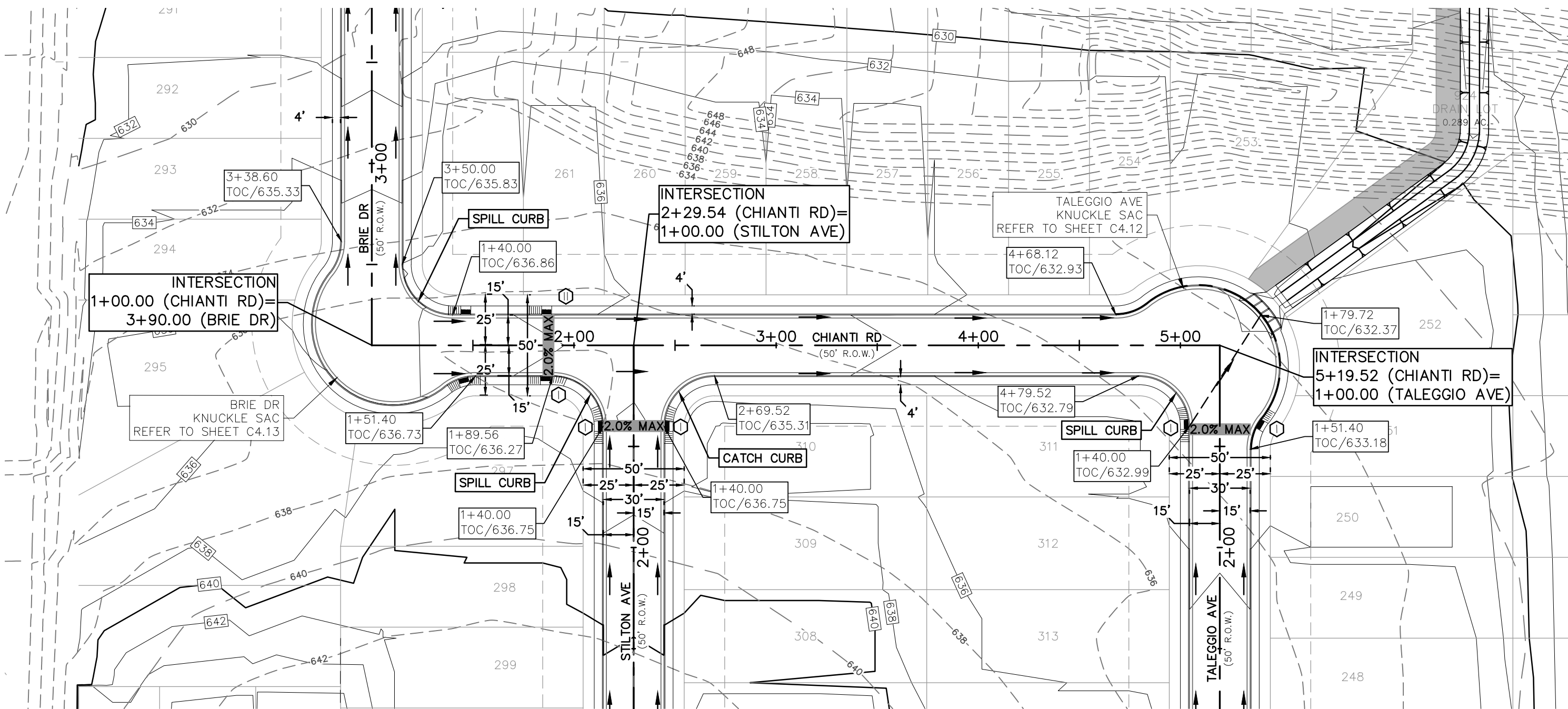
VOGES SUBDIVISION
UNIT 3

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DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP

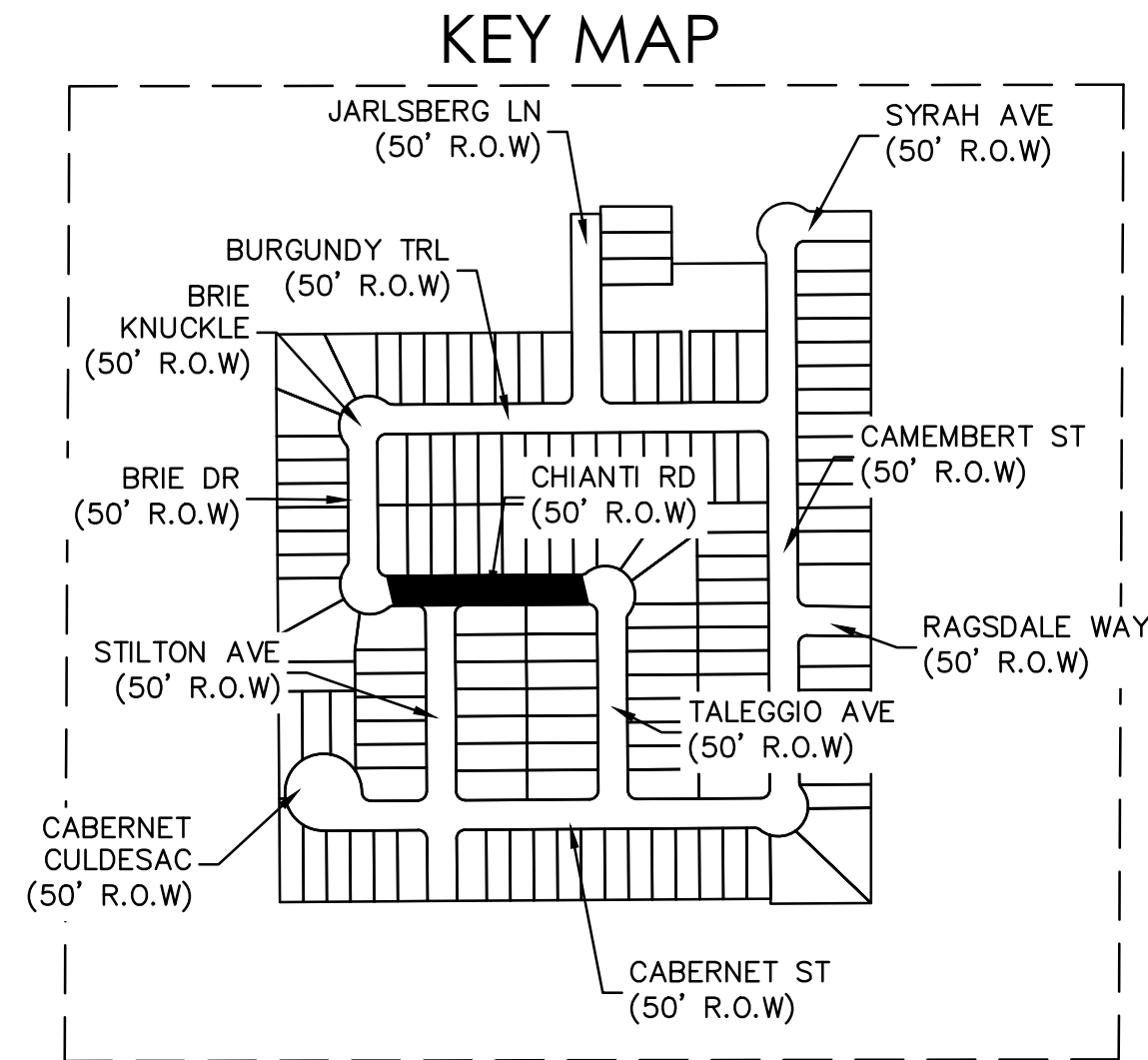
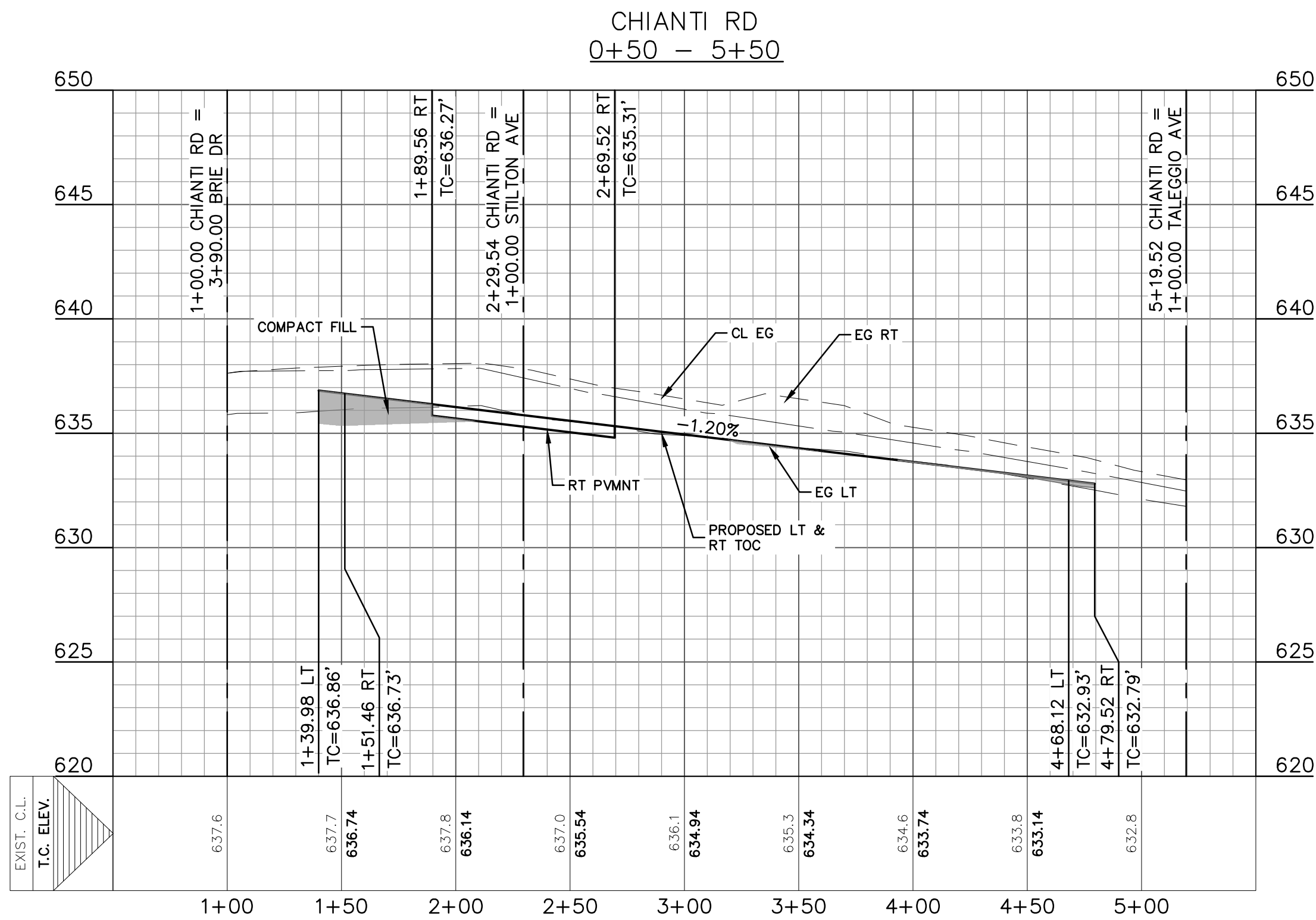
HMT PROJECT NO.:
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SHEET
C4.2



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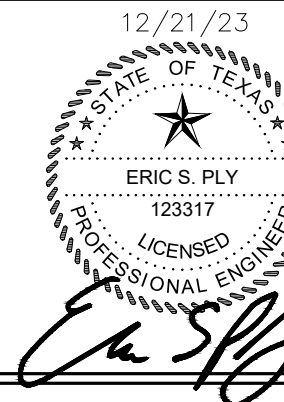
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NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



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VOGES SUBDIVISION
UNIT 3

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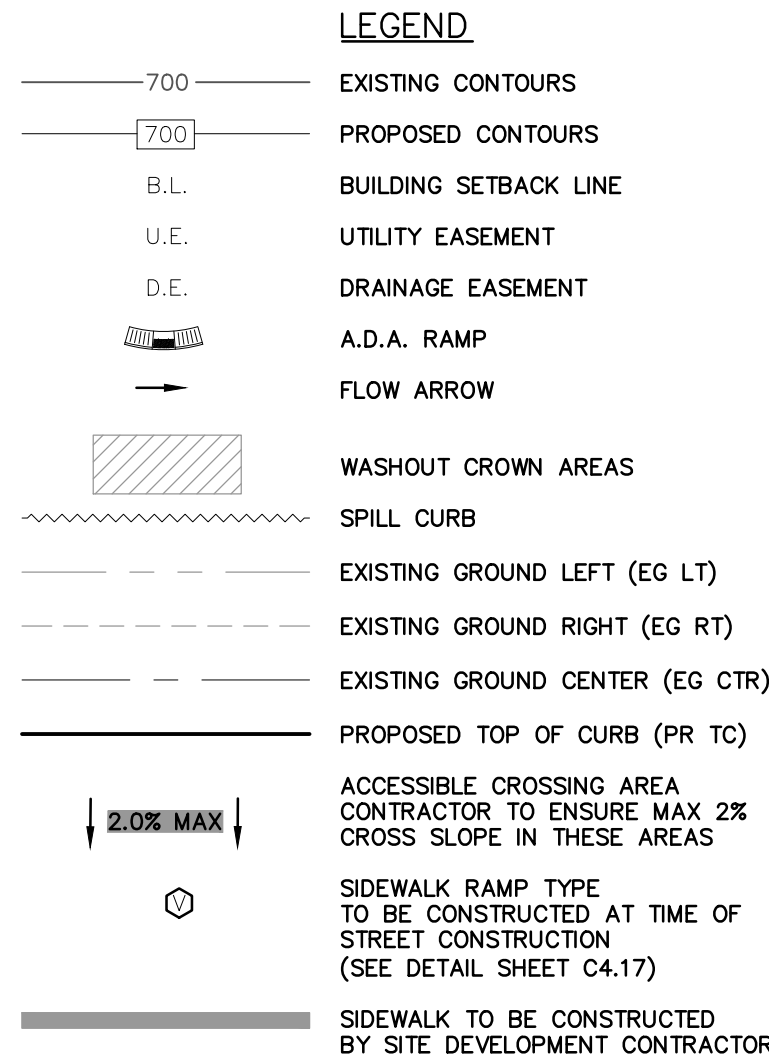
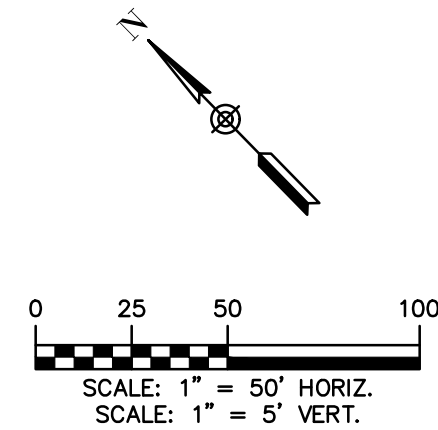
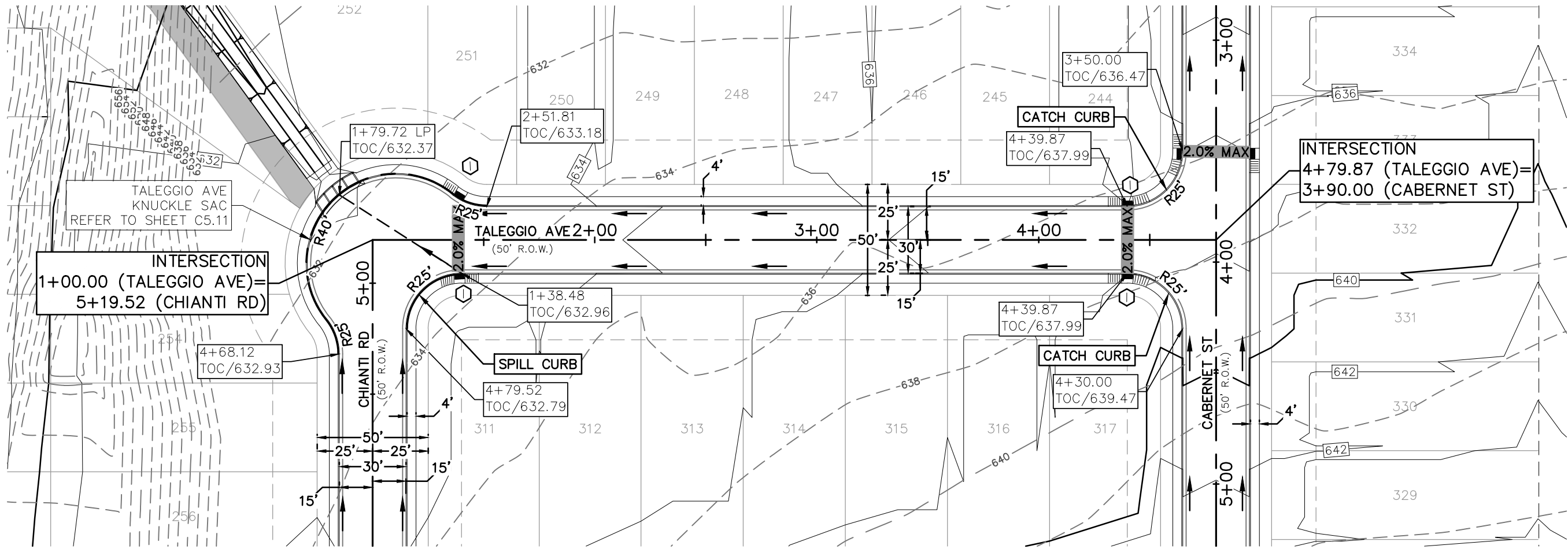
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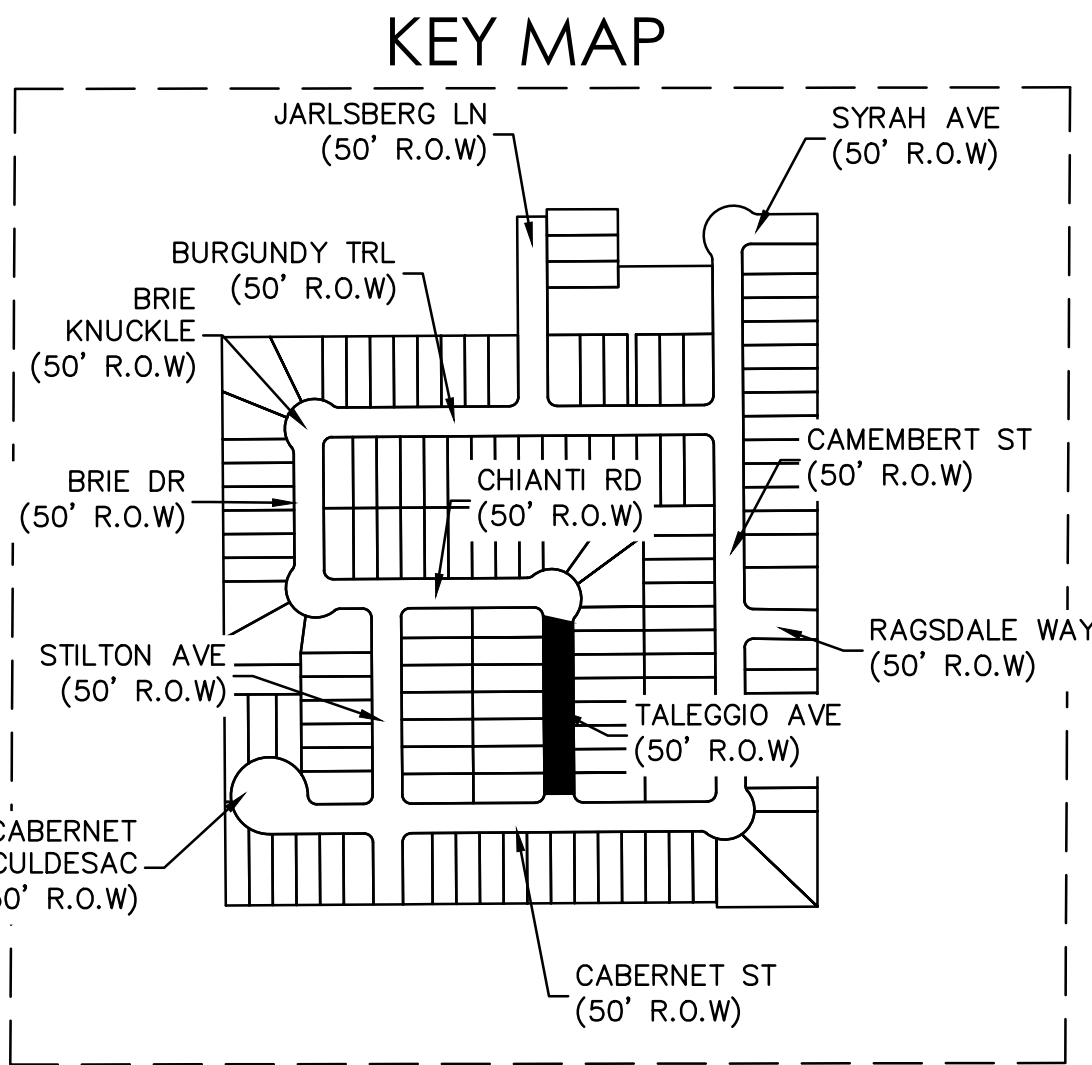
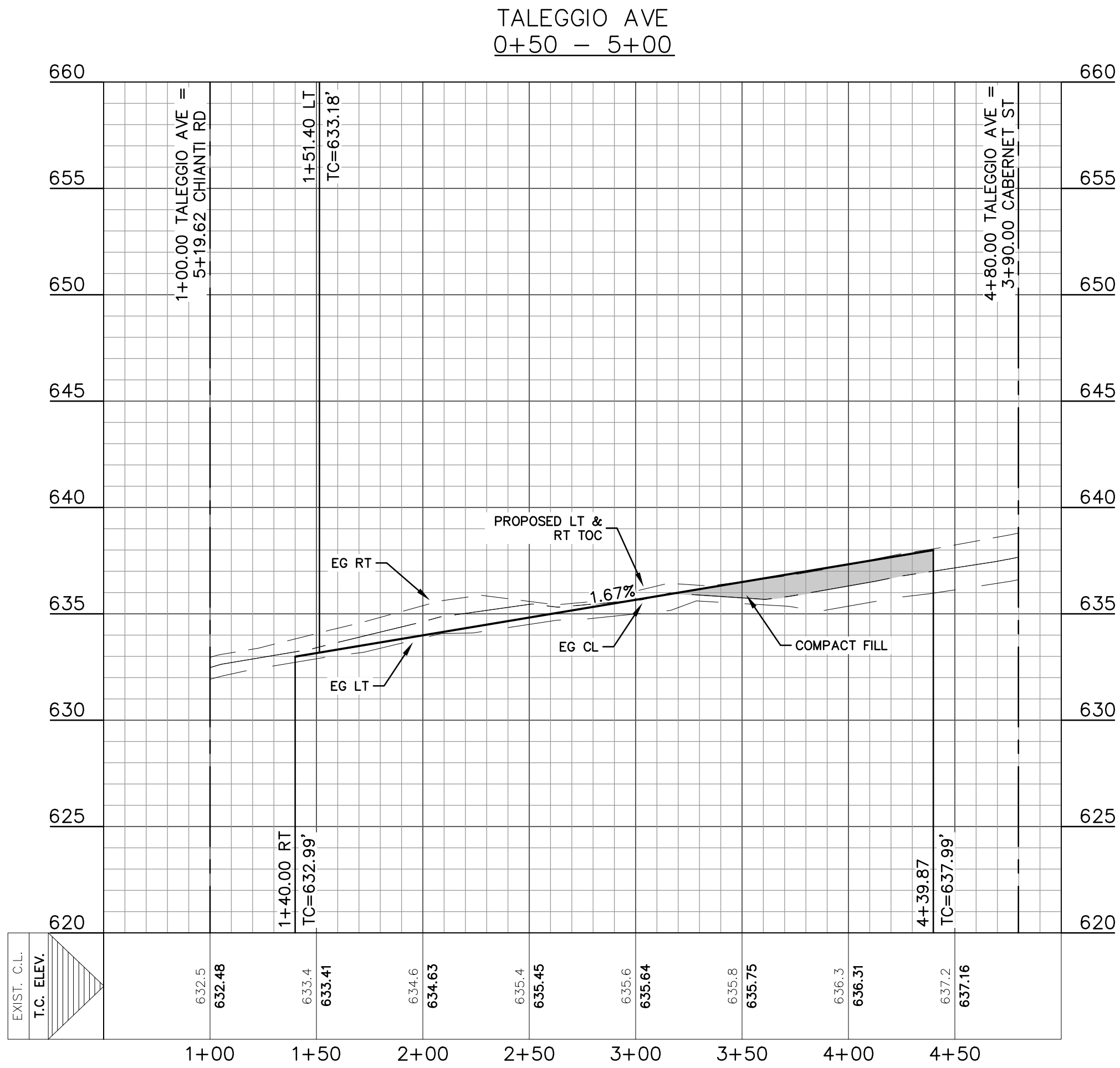
HMT PROJECT NO.:
248.014

SHEET
C4.3

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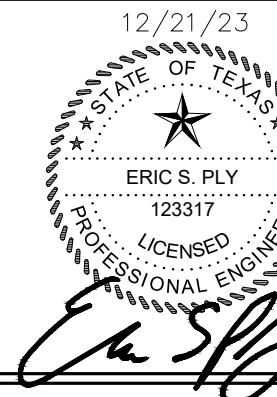
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TBPLS FIRM 1053600



TALEGGIO AVE

P&P

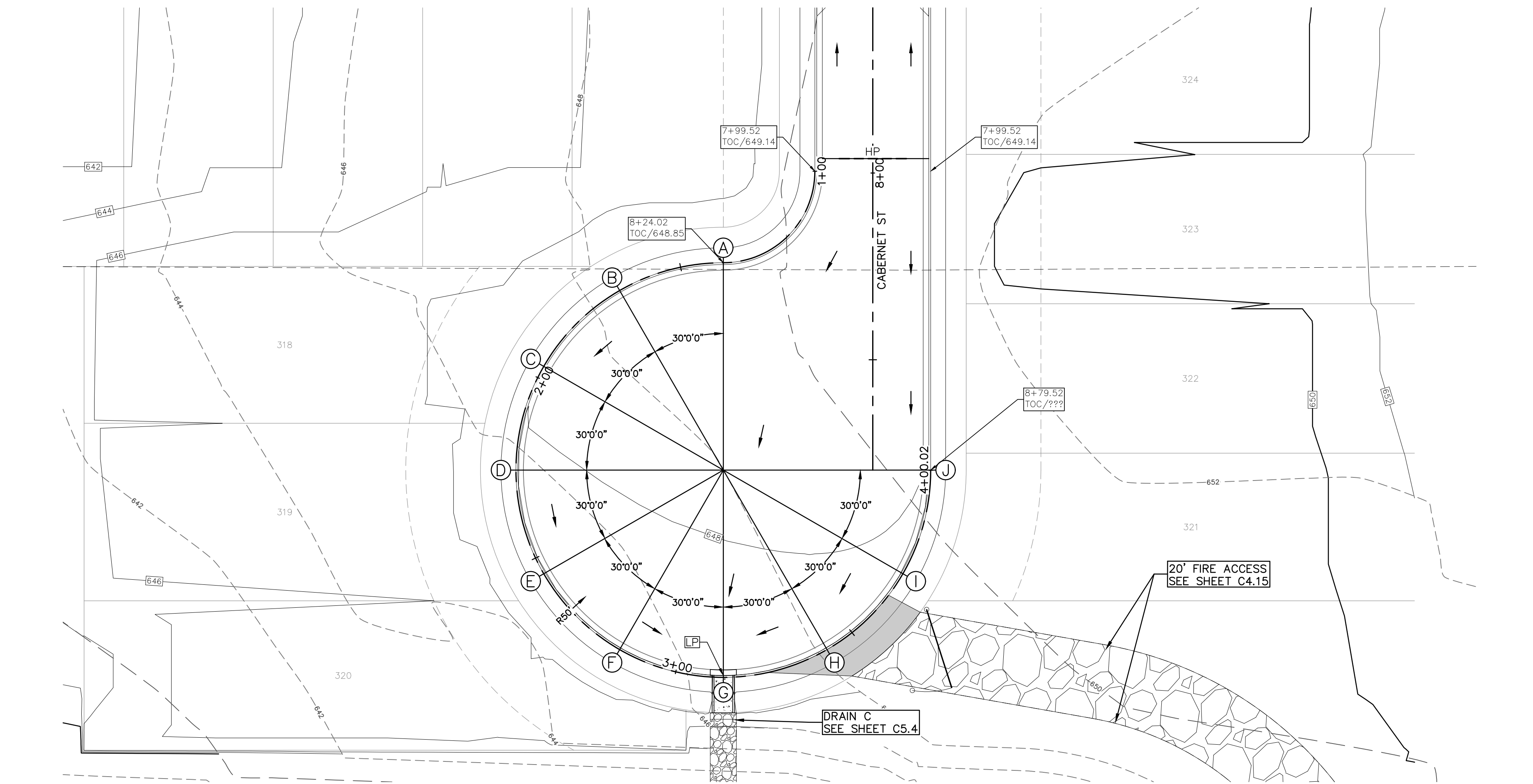
VOGES SUBDIVISION
UNIT 3

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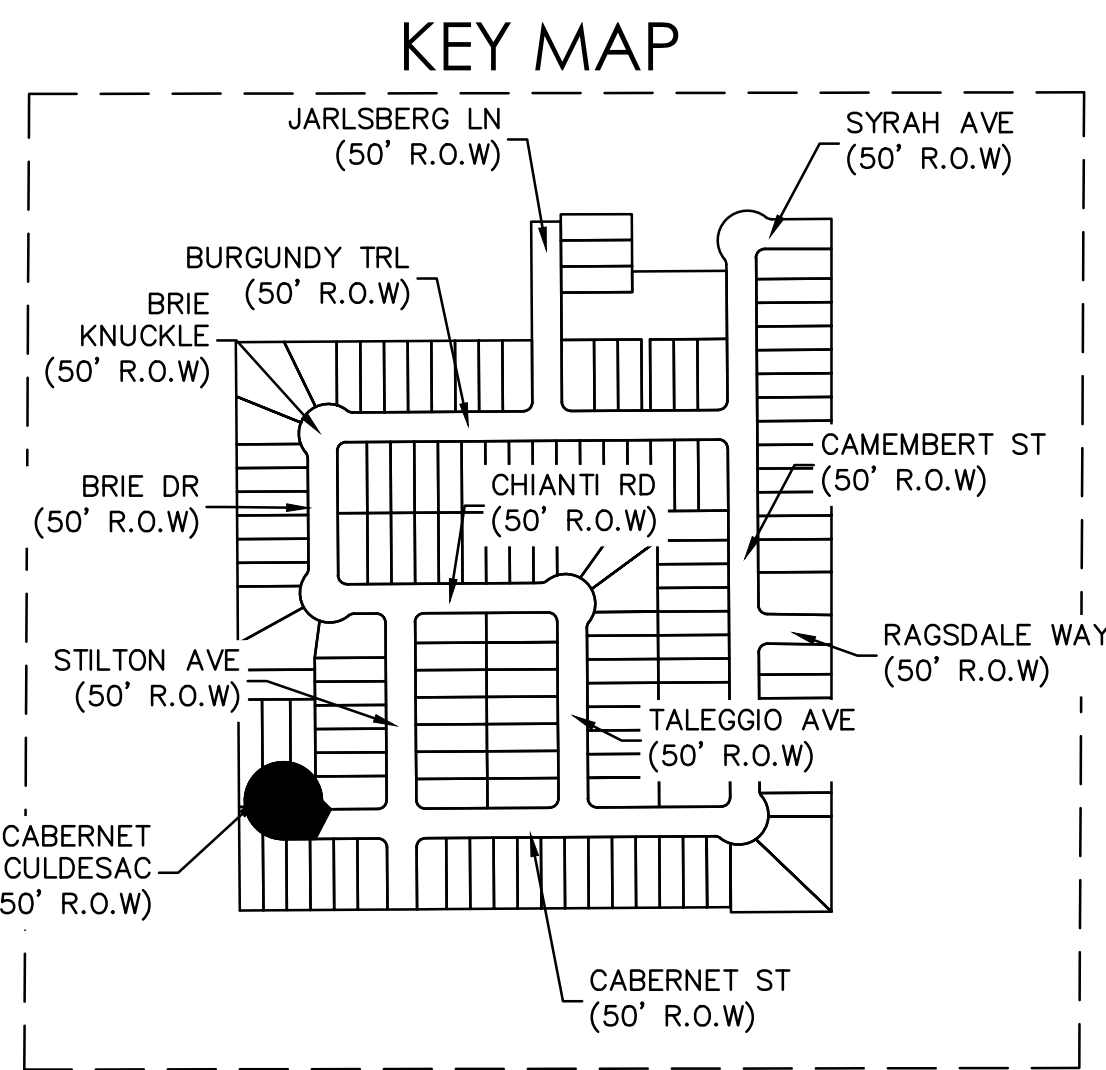
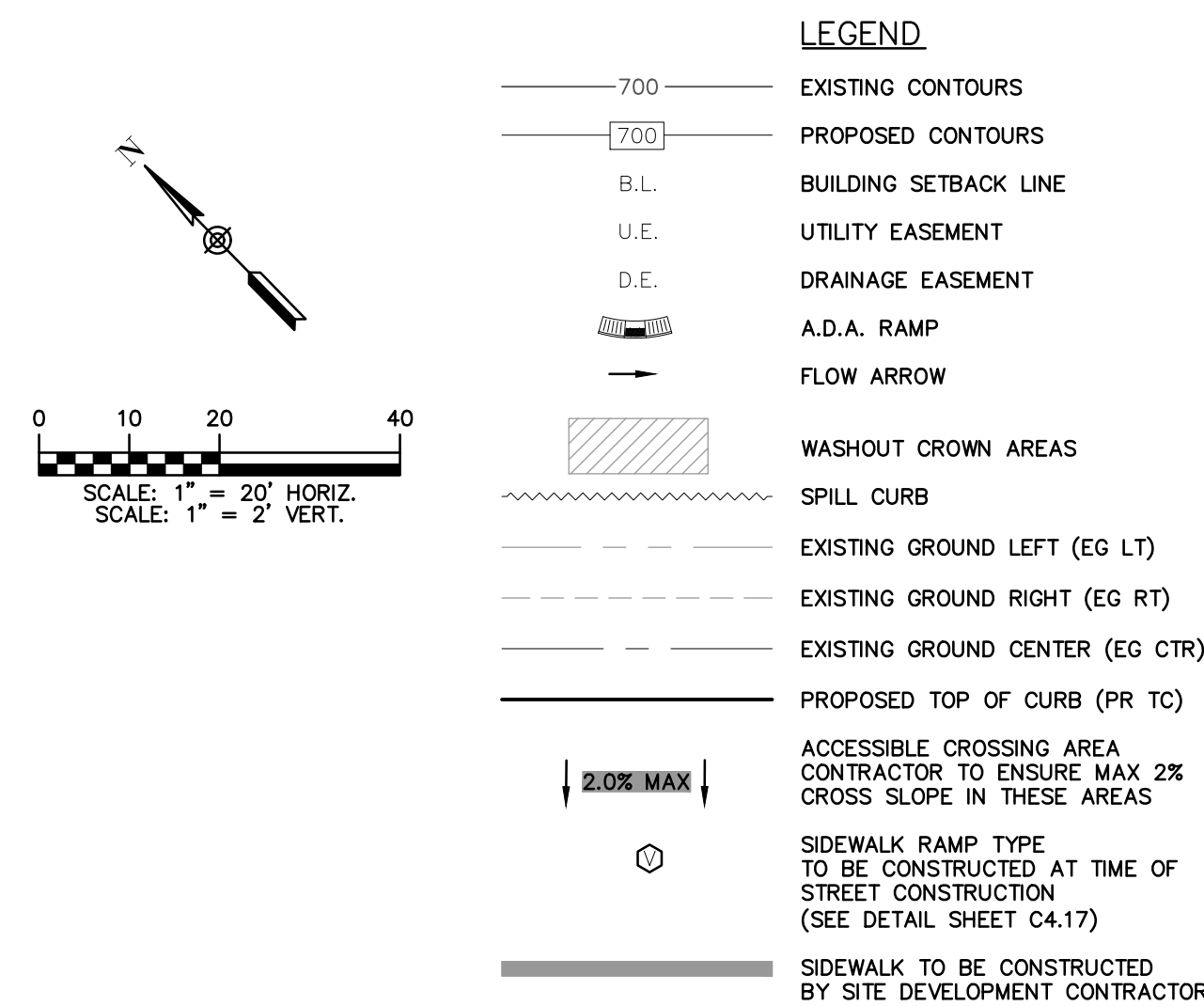
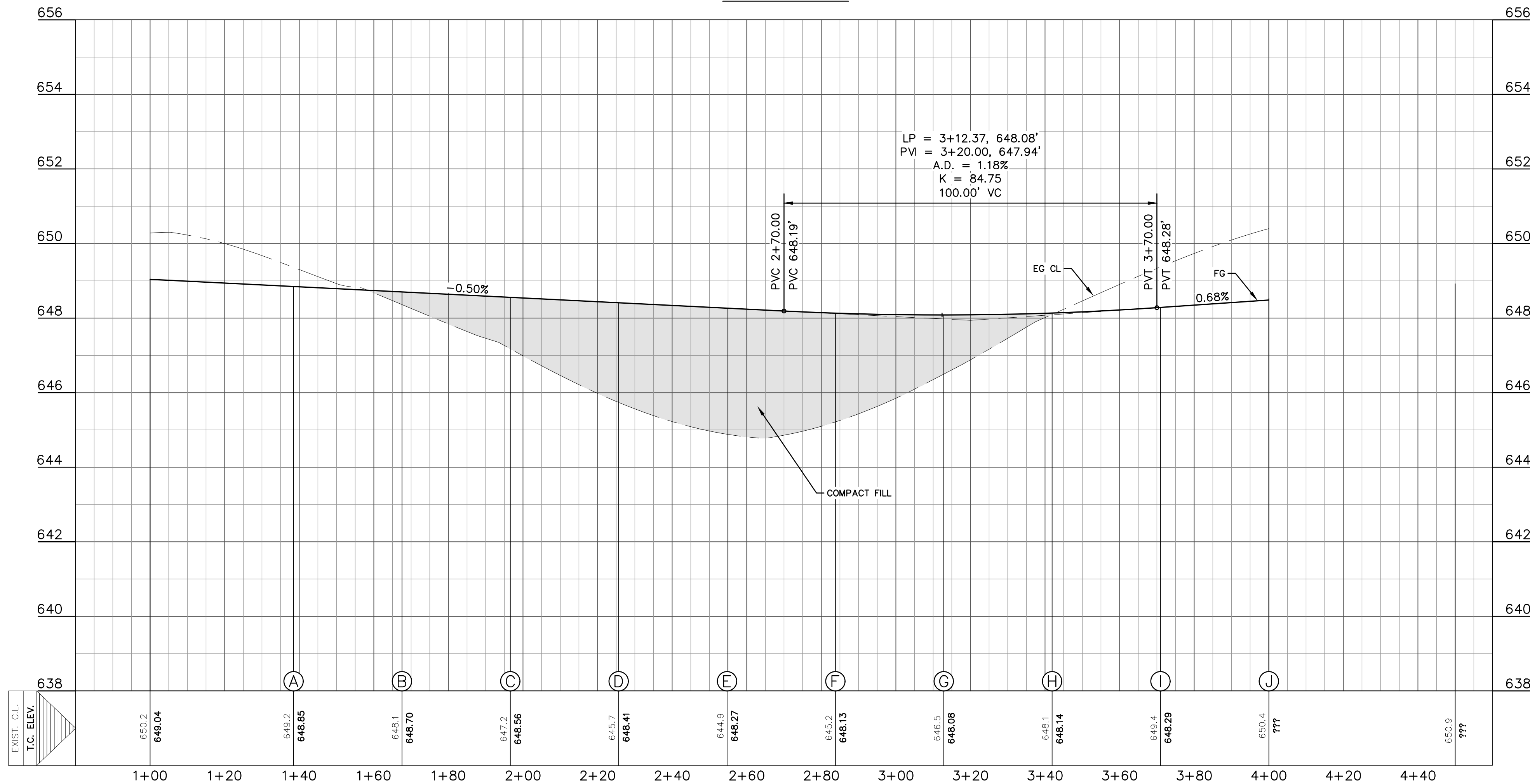
DATE:	DECEMBER 2023
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REVIEWED BY:	ESP
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SHEET
C4.4

Drawing Name: W:\projects\448 - roush coleman homes\014 - voges unit 4\CD\3\248.014 CABERNET Culdesac.dwg User: mlt-p Dec 21, 2023 - 4:46pm



Cabernet Culdesac
0+80 - 4+60



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HMT
ENGINEERING & SURVEYING

12/21/23

ERIC S. PLY
123317
LICENSED PROFESSIONAL ENGINEER

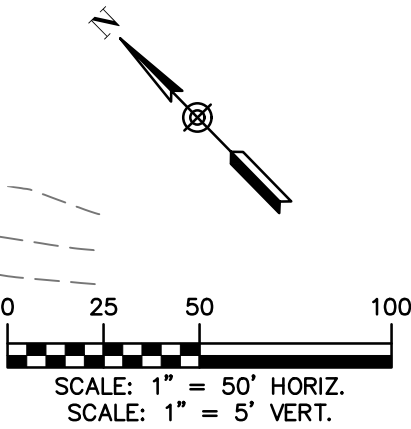
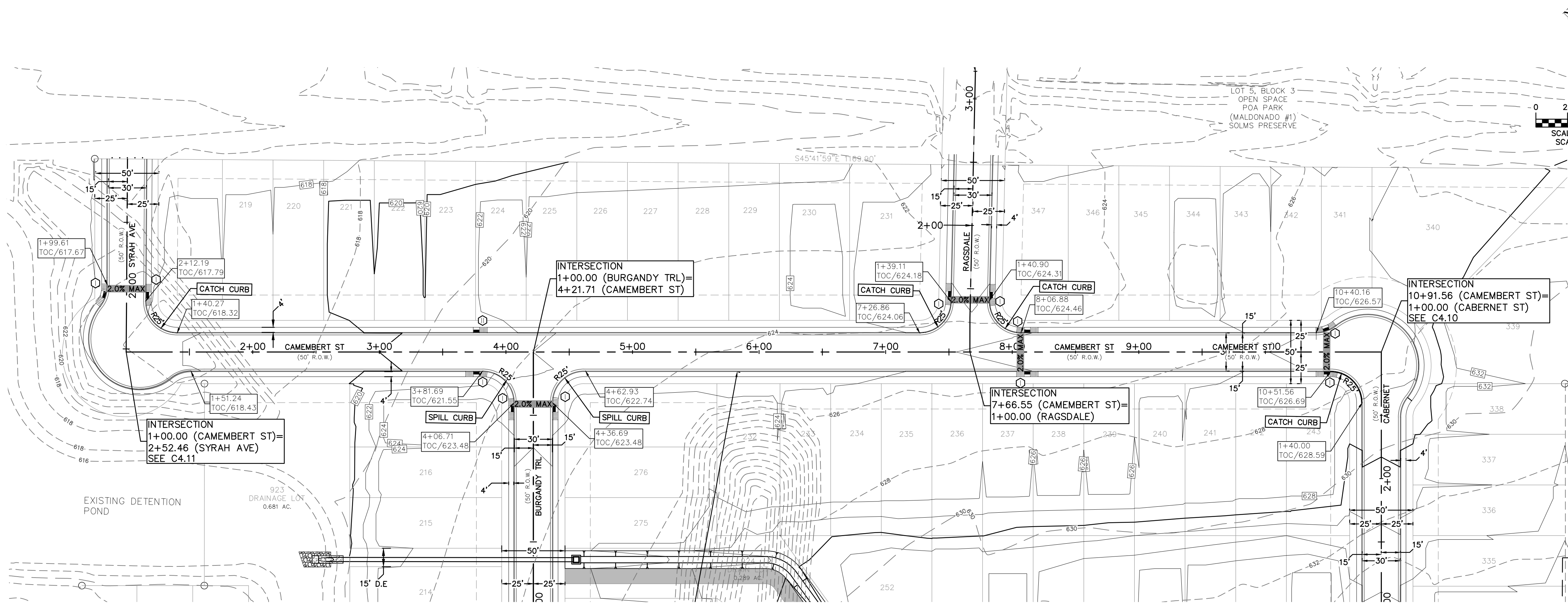
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VOGES SUBDIVISION
UNIT 3

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SHEET
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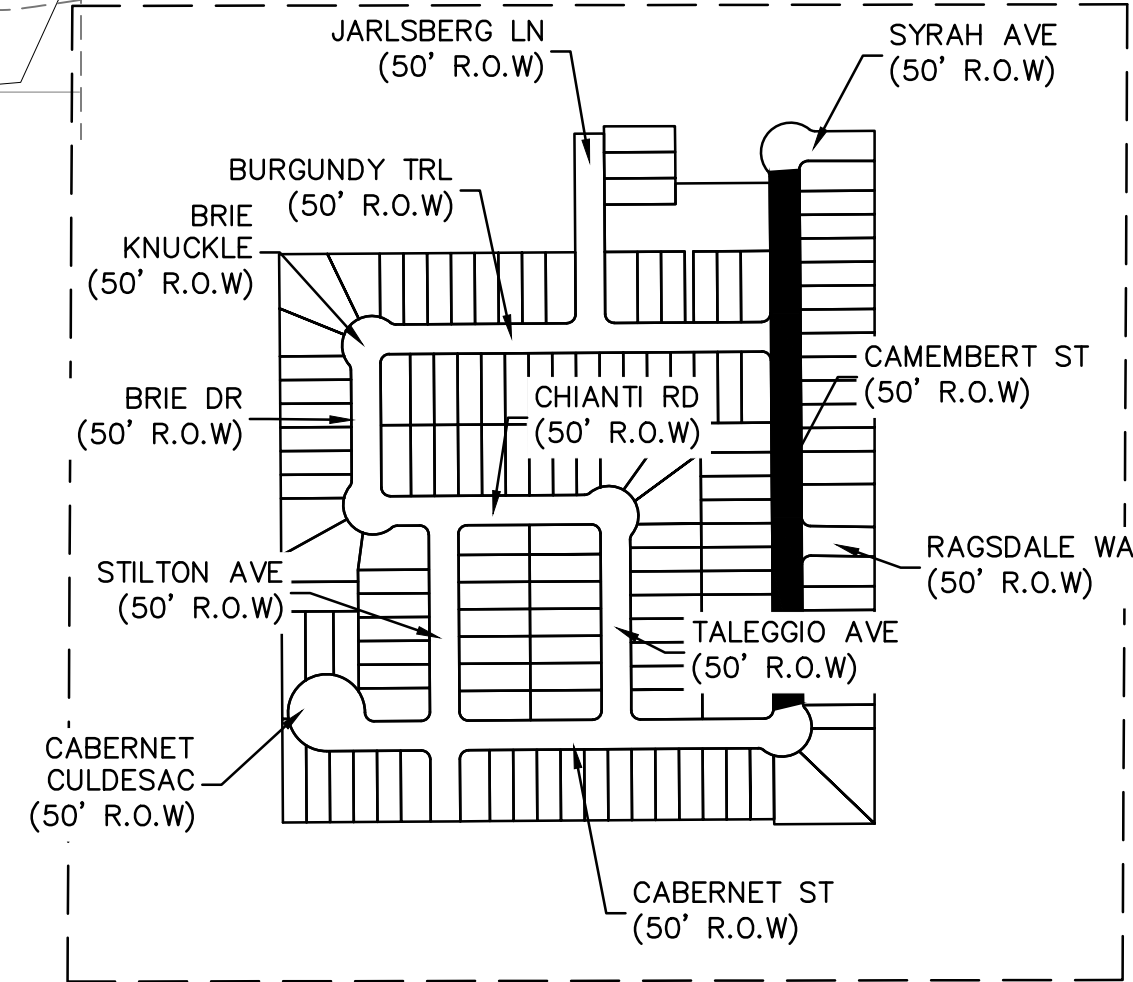


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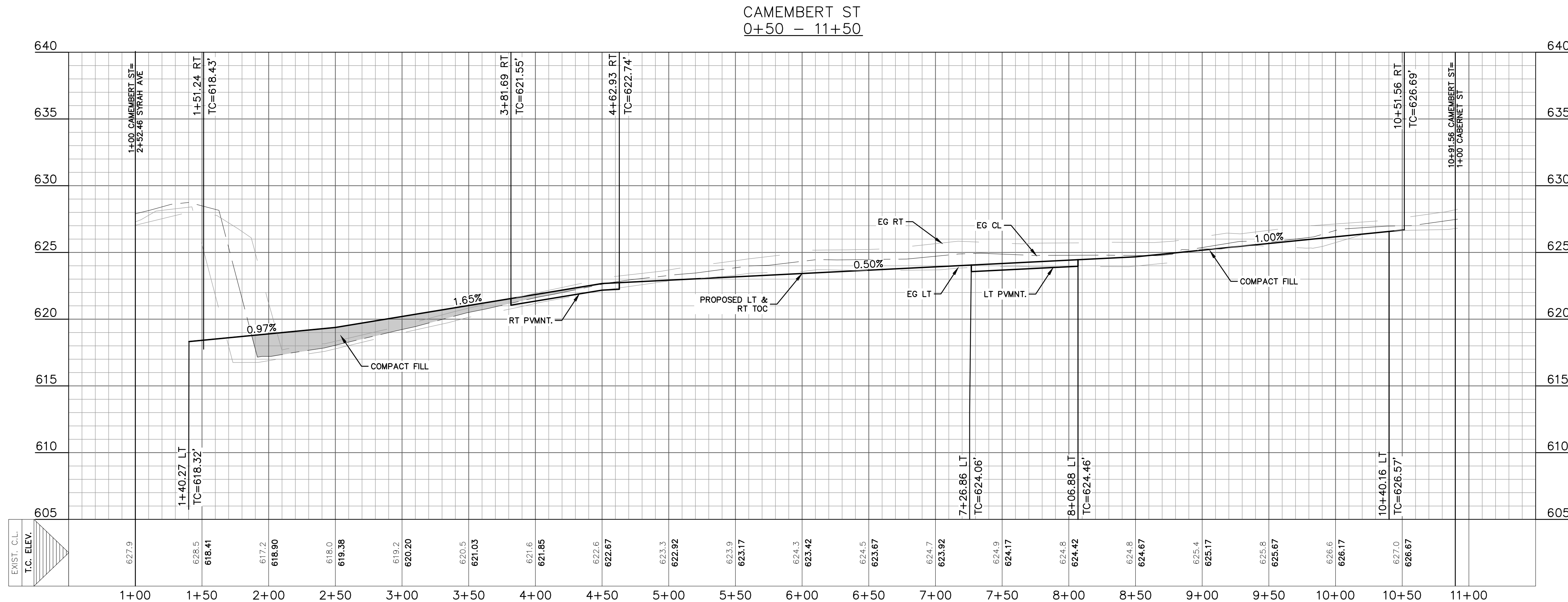
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KEY MAP

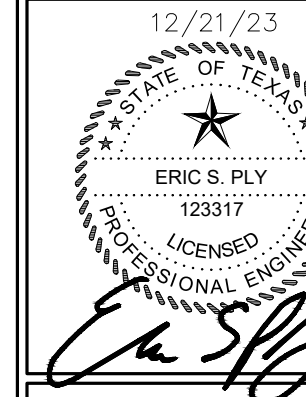


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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



CAMEMBERT ST

P&P

VOGES SUBDIVISION
UNIT 3

NO.	REVISION	DESCRIPTION	REVISION DATE

DATE: DECEMBER 2023

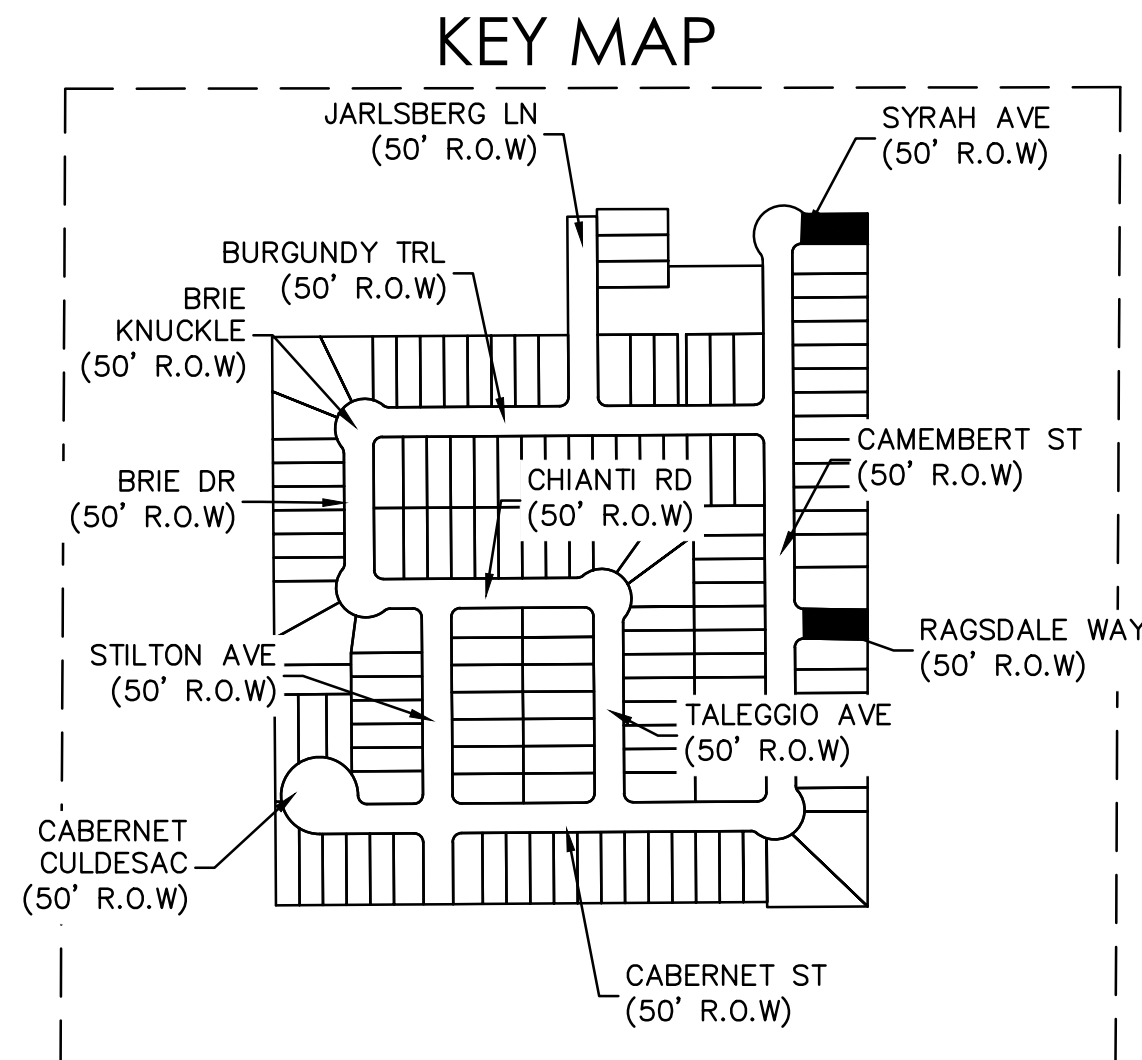
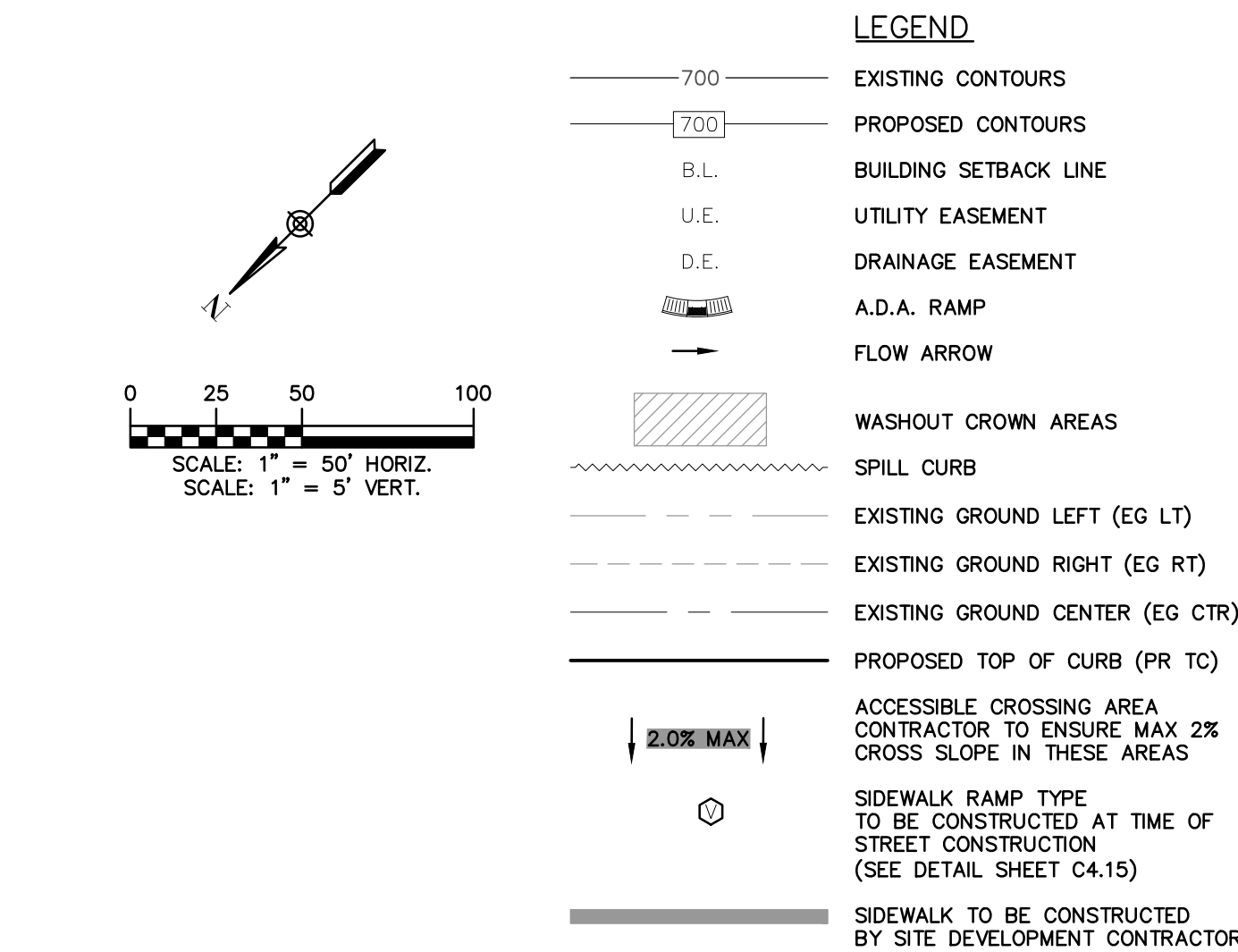
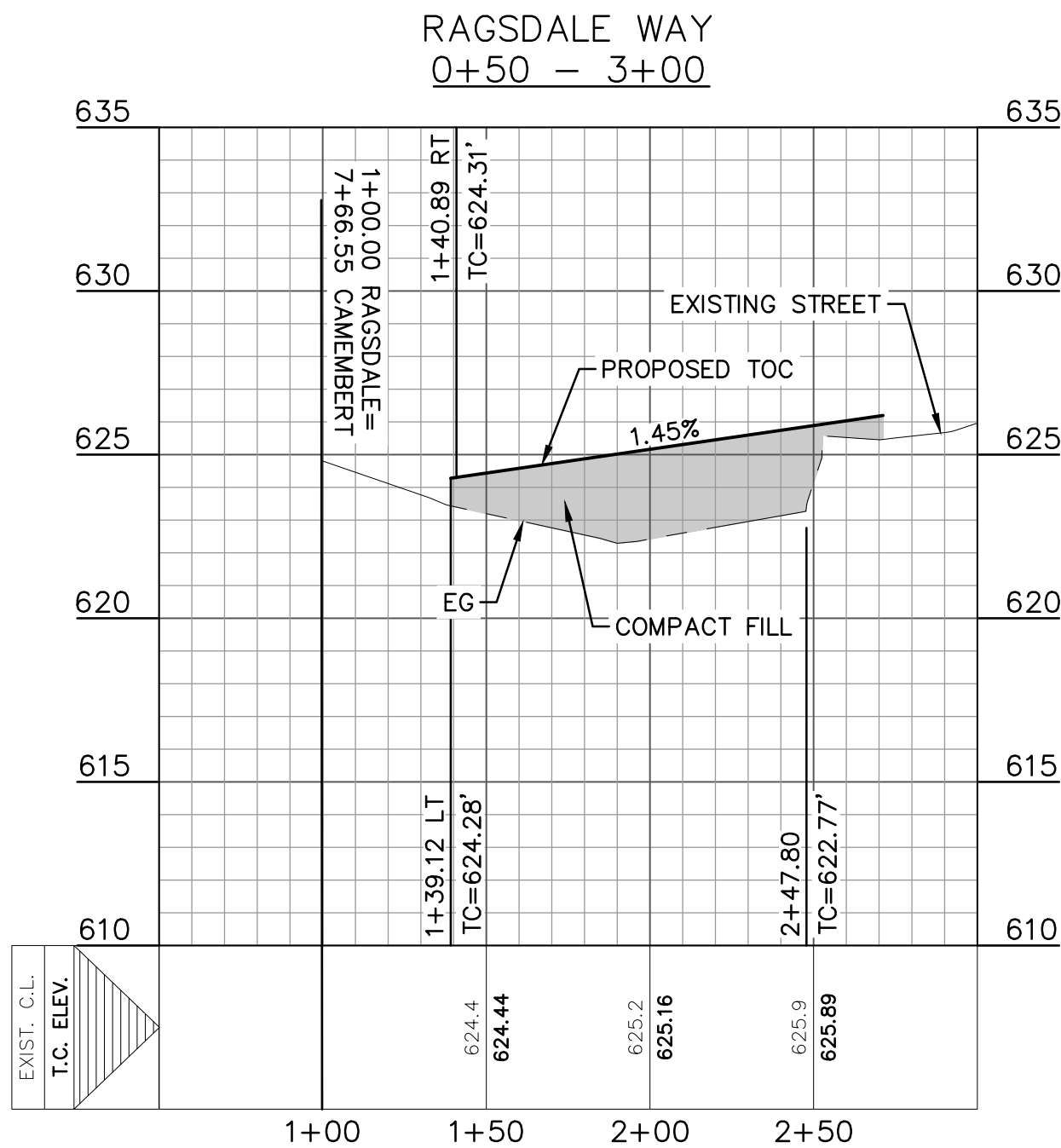
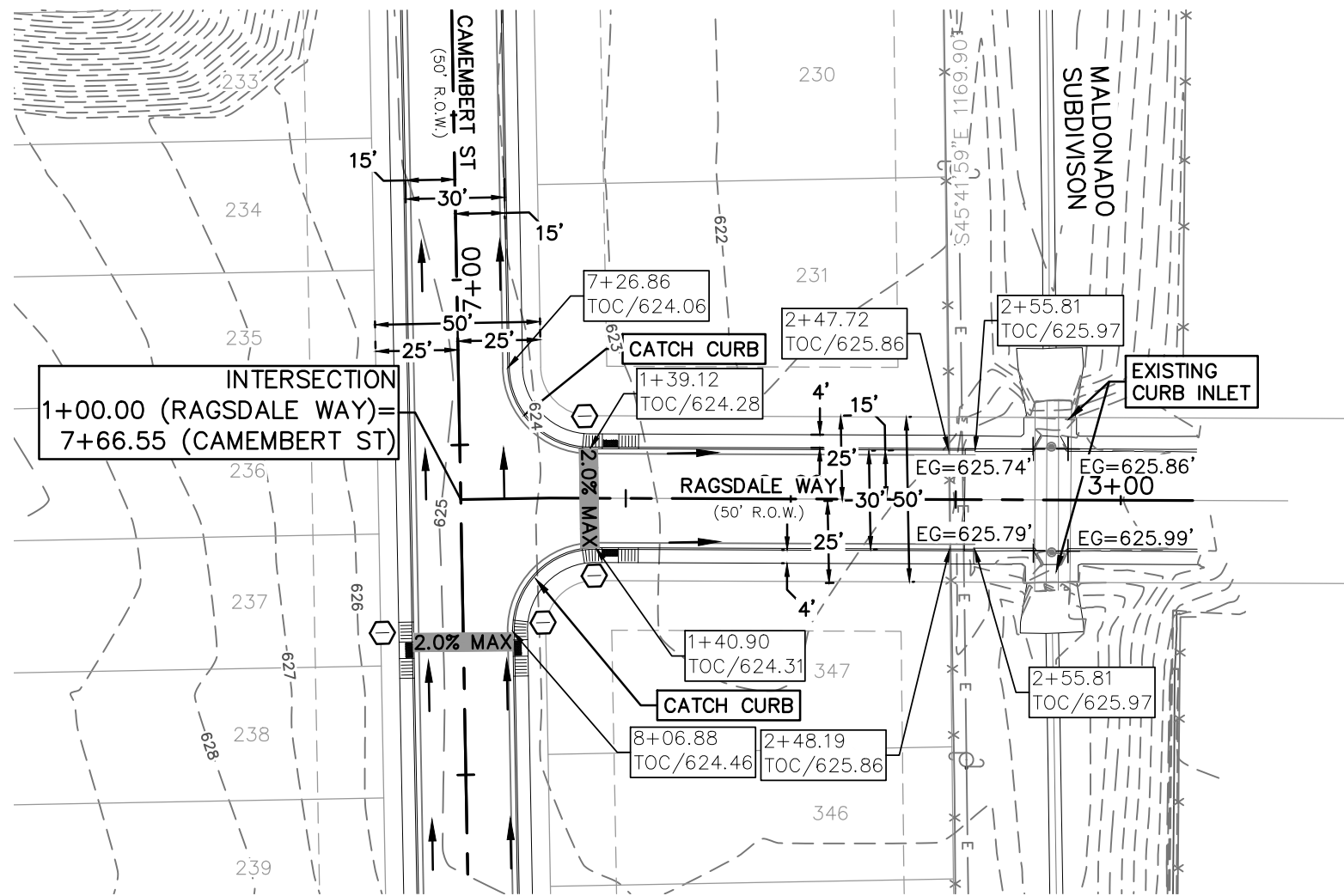
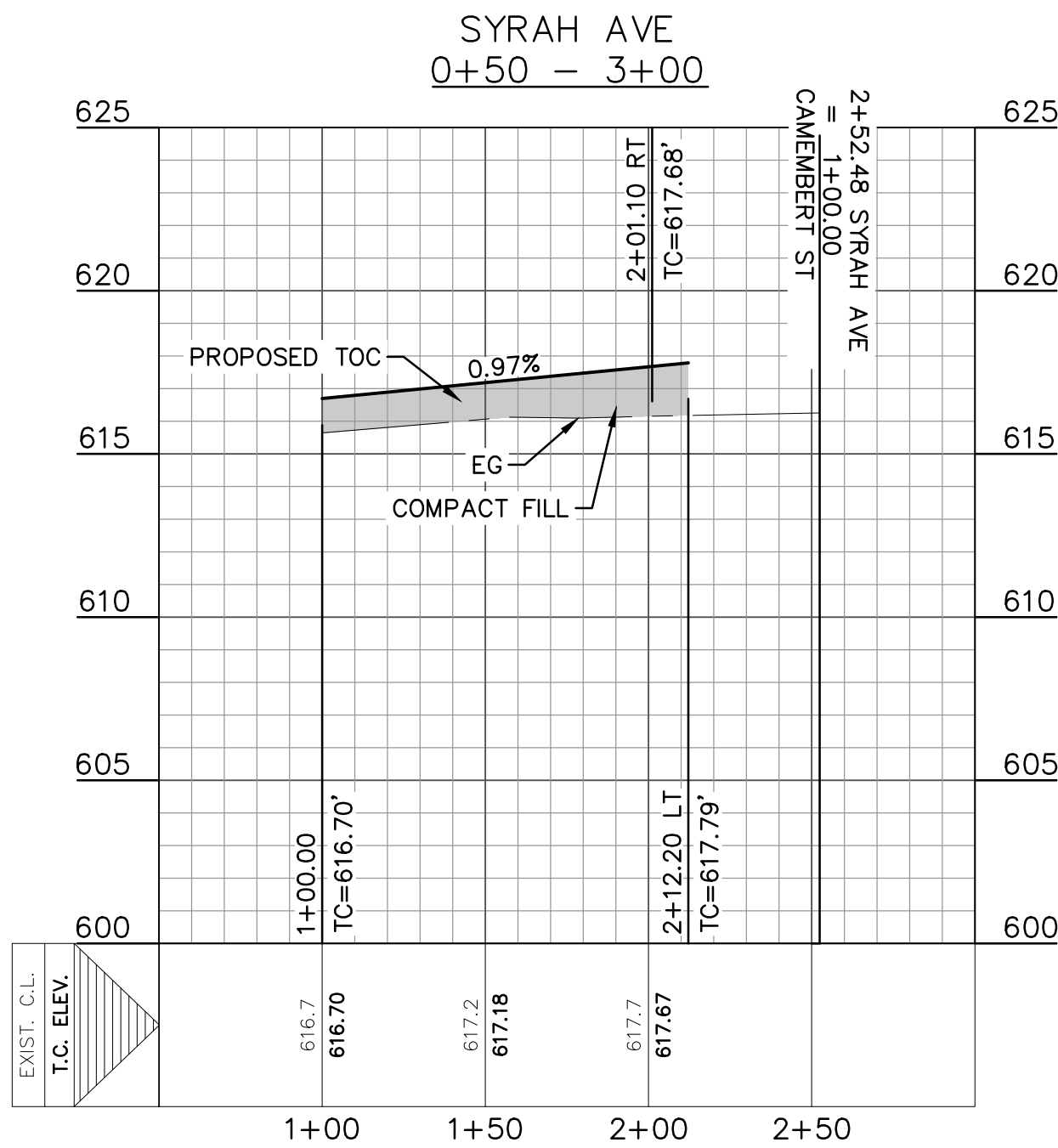
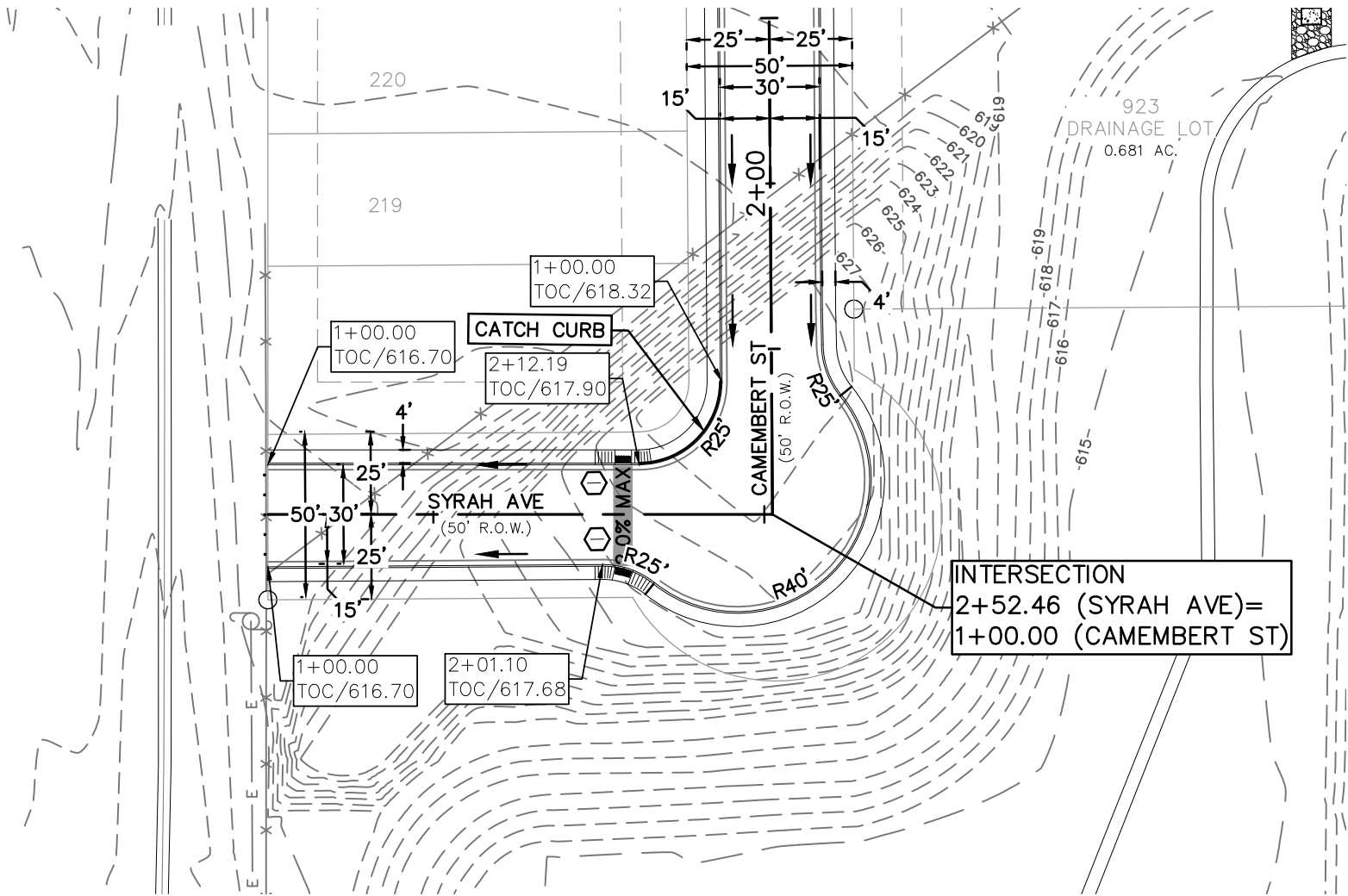
DRAWN BY: MP

DESIGNED BY: MP

REVIEWED BY: ESP

HMT PROJECT NO.:
248.014

SHEET
C4.7



N.T.S.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



SYRAH AVE AND
RAGSDALE WAY P&P

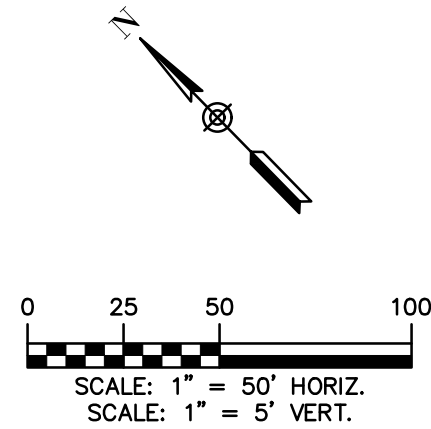
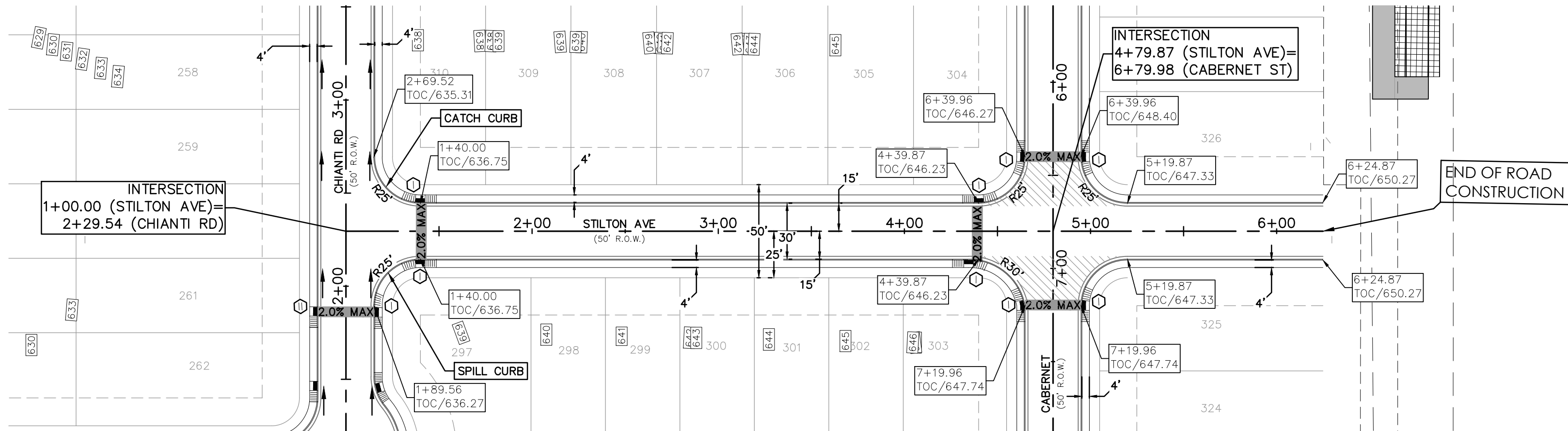
VOGES SUBDIVISION
UNIT 3

NO.	REVISION DESCRIPTION	REVISION DATE

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C4.8

Drawing Name: M:_projects\448 - voges unit 4\CD\3\248.014 STILTON AVE P&P.dwg User: matt-p Dec 21, 2023 - 4:46pm

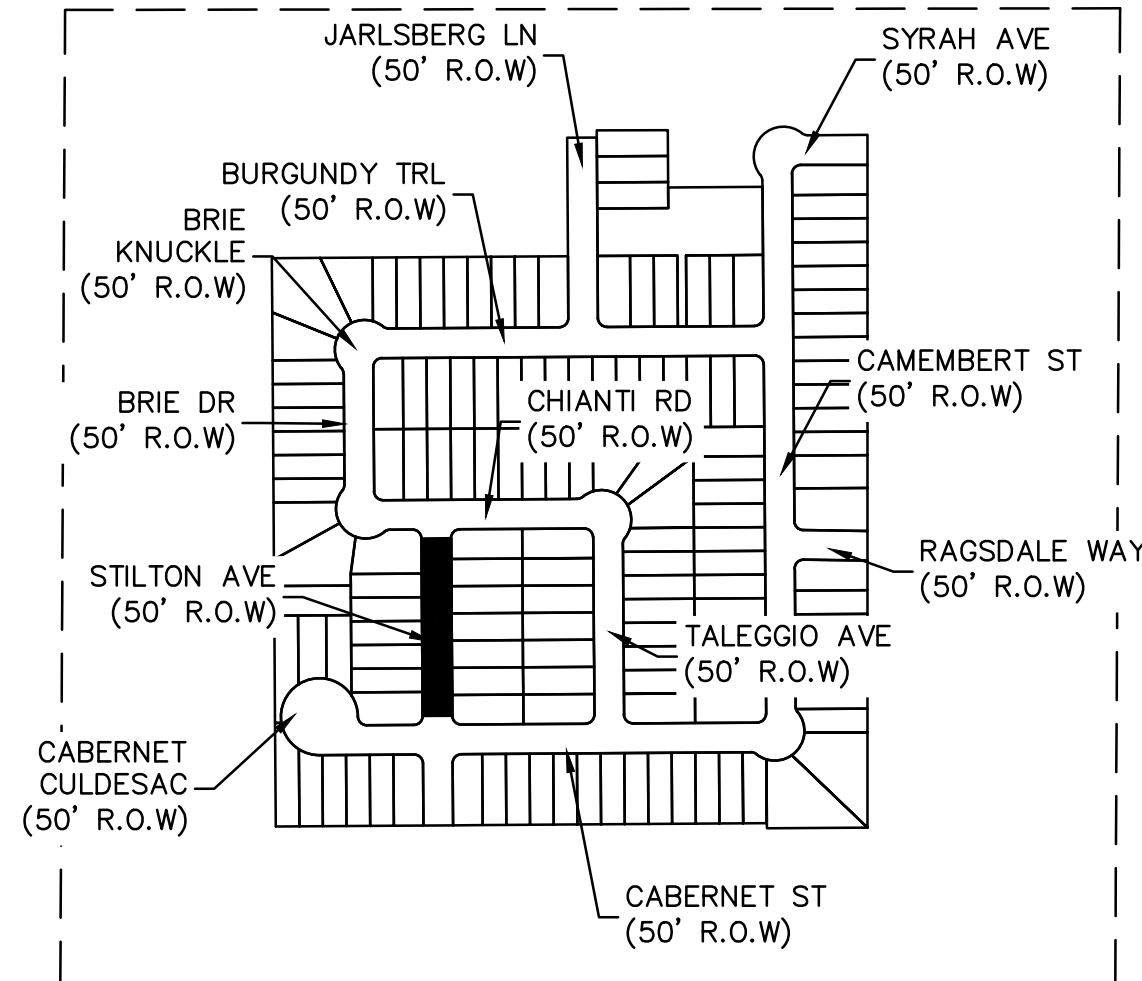


- LEGEND**
- EXISTING CONTOURS
 - PROPOSED CONTOURS
 - B.L. BUILDING SETBACK LINE
 - U.E. UTILITY EASEMENT
 - D.E. DRAINAGE EASEMENT
 - A.D.A. RAMP
 - FLOW ARROW
 - WASHOUT CROWN AREAS
 - SPILL CURB
 - EXISTING GROUND LEFT (EG LT)
 - EXISTING GROUND RIGHT (EG RT)
 - EXISTING GROUND CENTER (EG CTR)
 - PROPOSED TOP OF CURB (PR TC)
 - ACCESSIBLE CROSSING AREA
CONTRACTOR TO ENSURE MAX 2%
CROSS SLOPE IN THESE AREAS
 - 2.0% MAX
 - SIDEWALK RAMP TYPE
TO BE CONSTRUCTED AT TIME OF
STREET CONSTRUCTION
(SEE DETAIL SHEET C4.17)
 - SIDEWALK TO BE CONSTRUCTED
BY SITE DEVELOPMENT CONTRACTOR

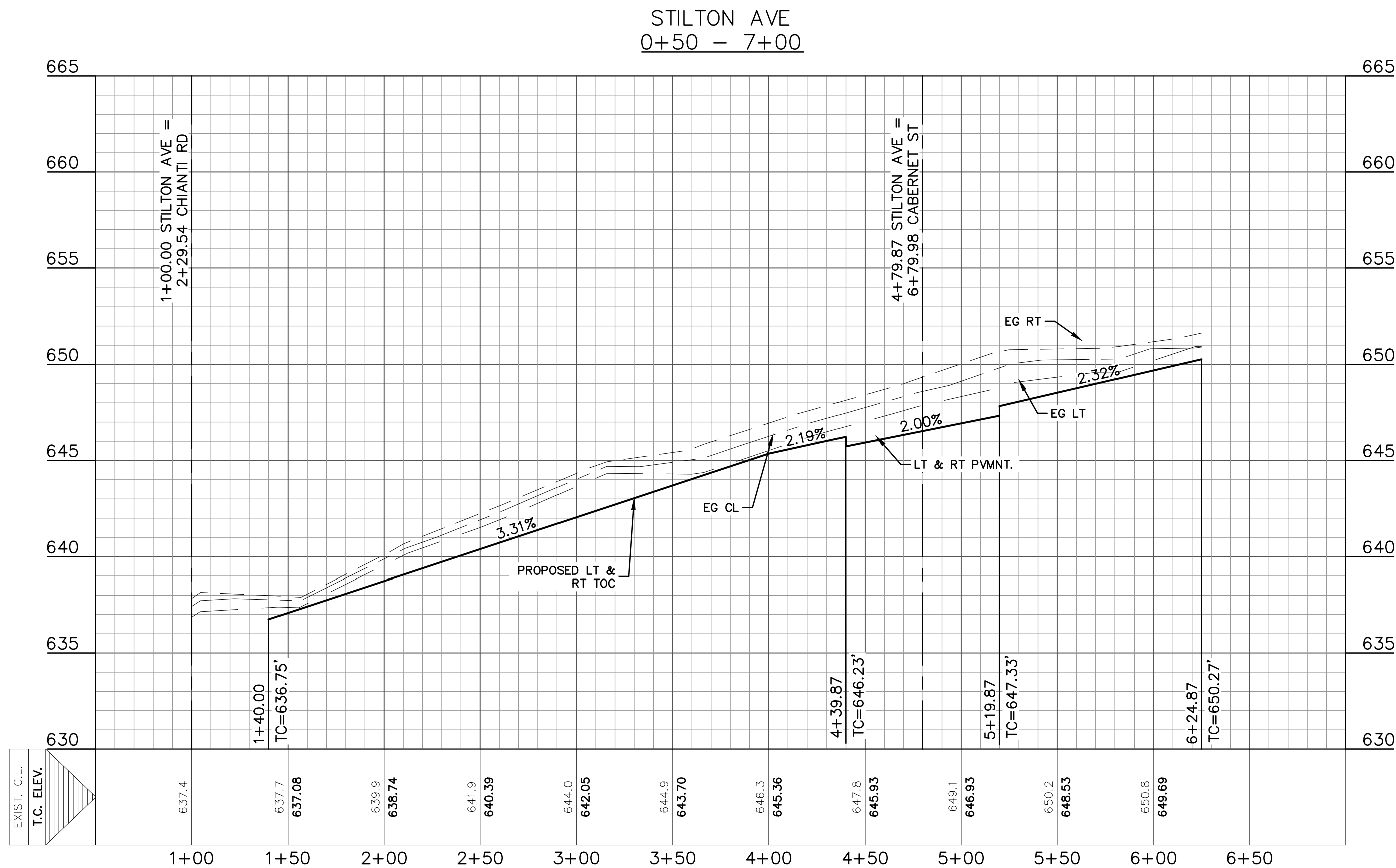
NOTES

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- CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM STREET STUB OUT ENDS SO THAT NO "PONDING" OF WATER OCCURS.
- PER NEW BRAUNFELS ORDINANCE SEC. 114-98(d)(6) ALL DRIVEWAY LOCATED ON A SINGLE FAMILY RESIDENCE ON A LOCAL STREET SHALL HAVE A MINIMUM SPACING OF 20'

KEY MAP



N.T.S.



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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



STILTON AVE P&P

VOGES SUBDIVISION
UNIT 3

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: DECEMBER 2023

DRAWN BY: MP

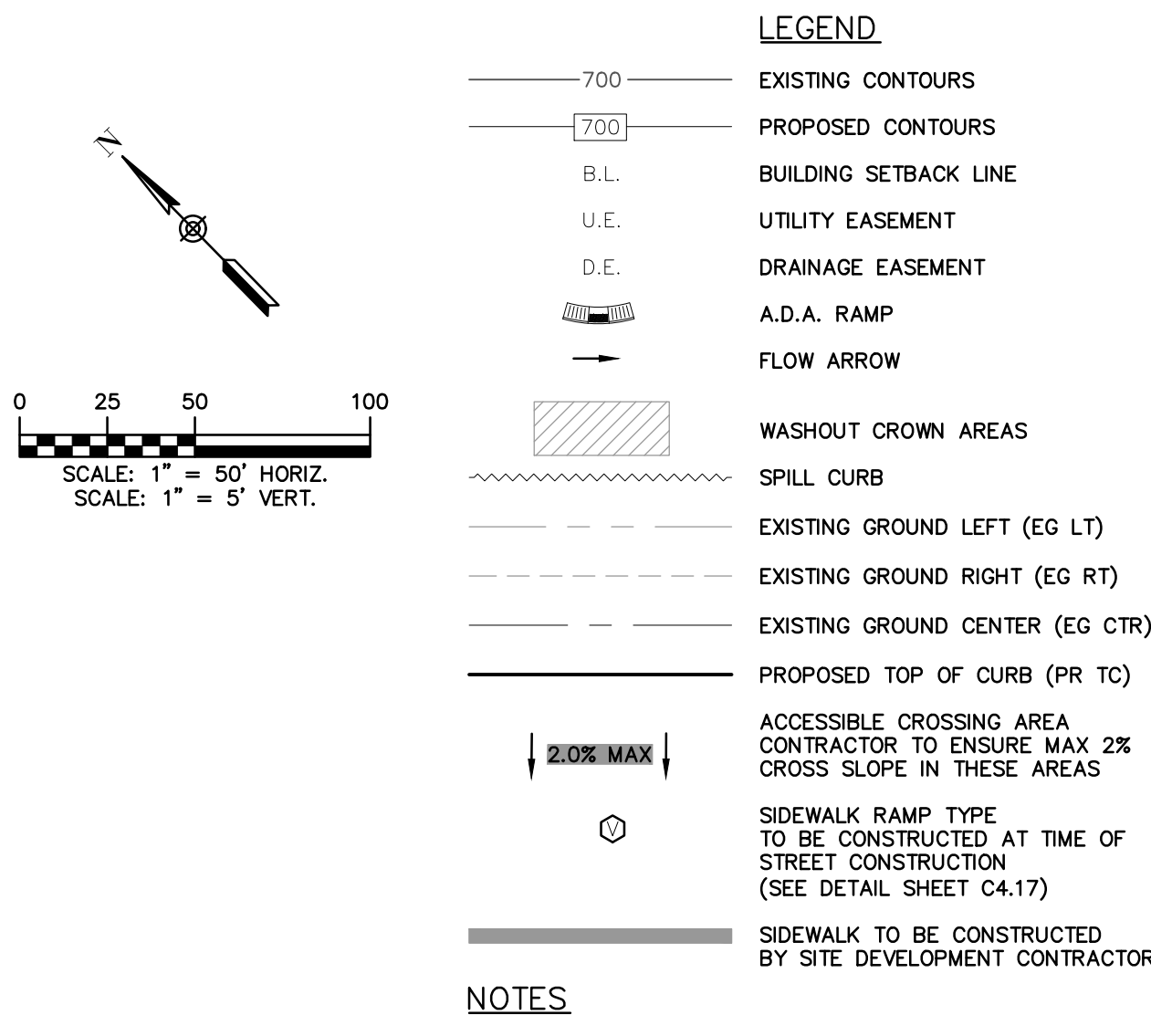
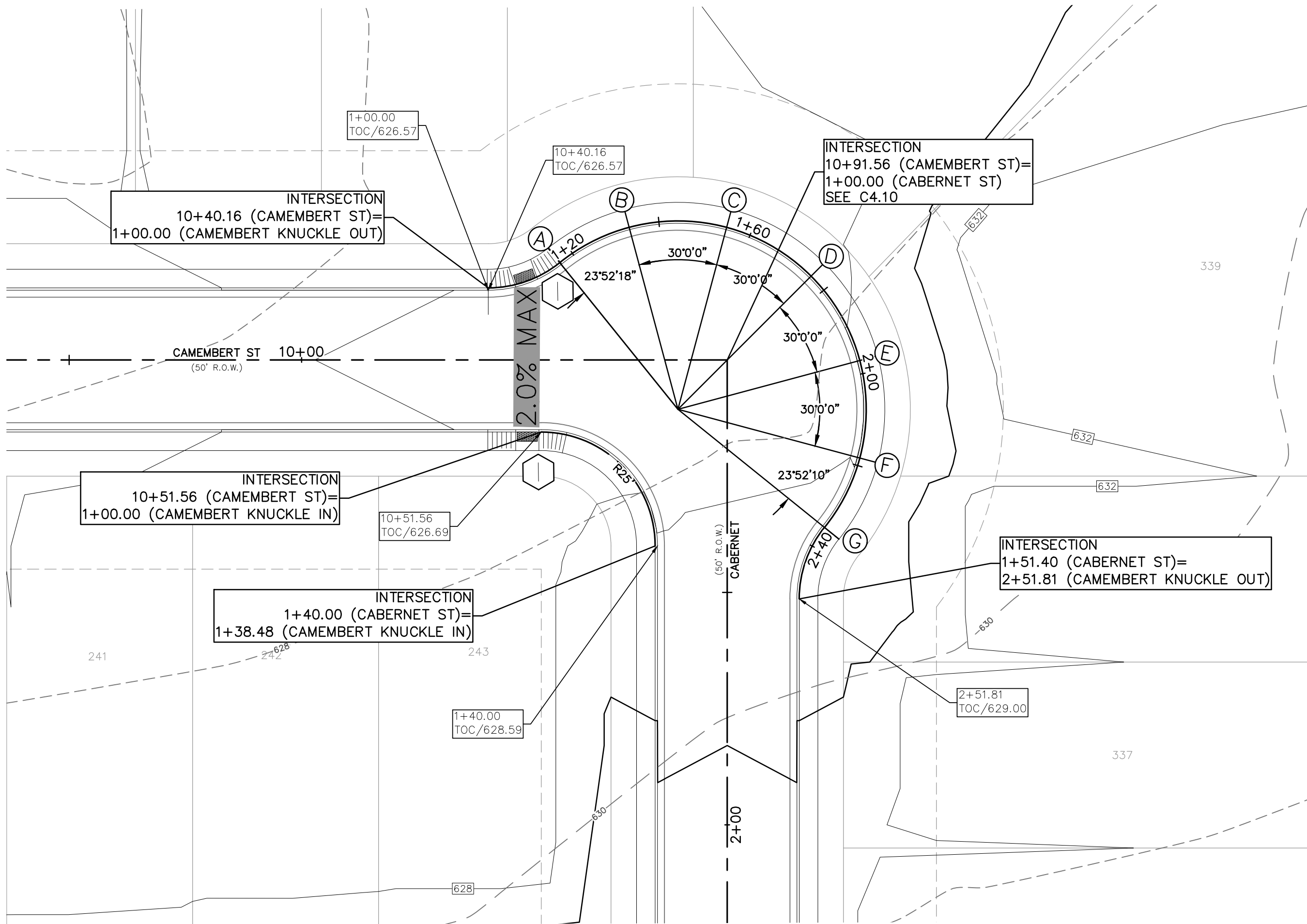
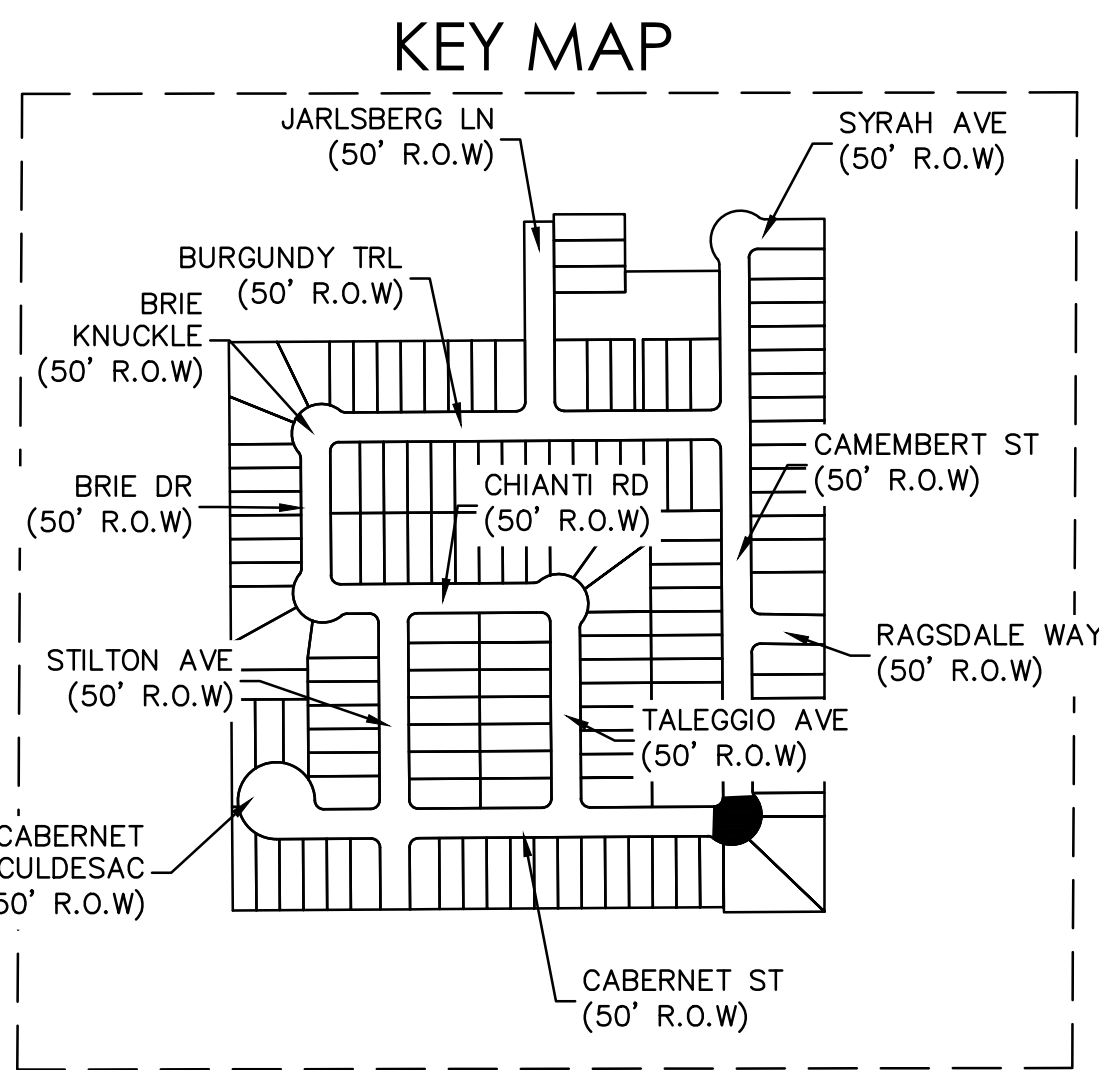
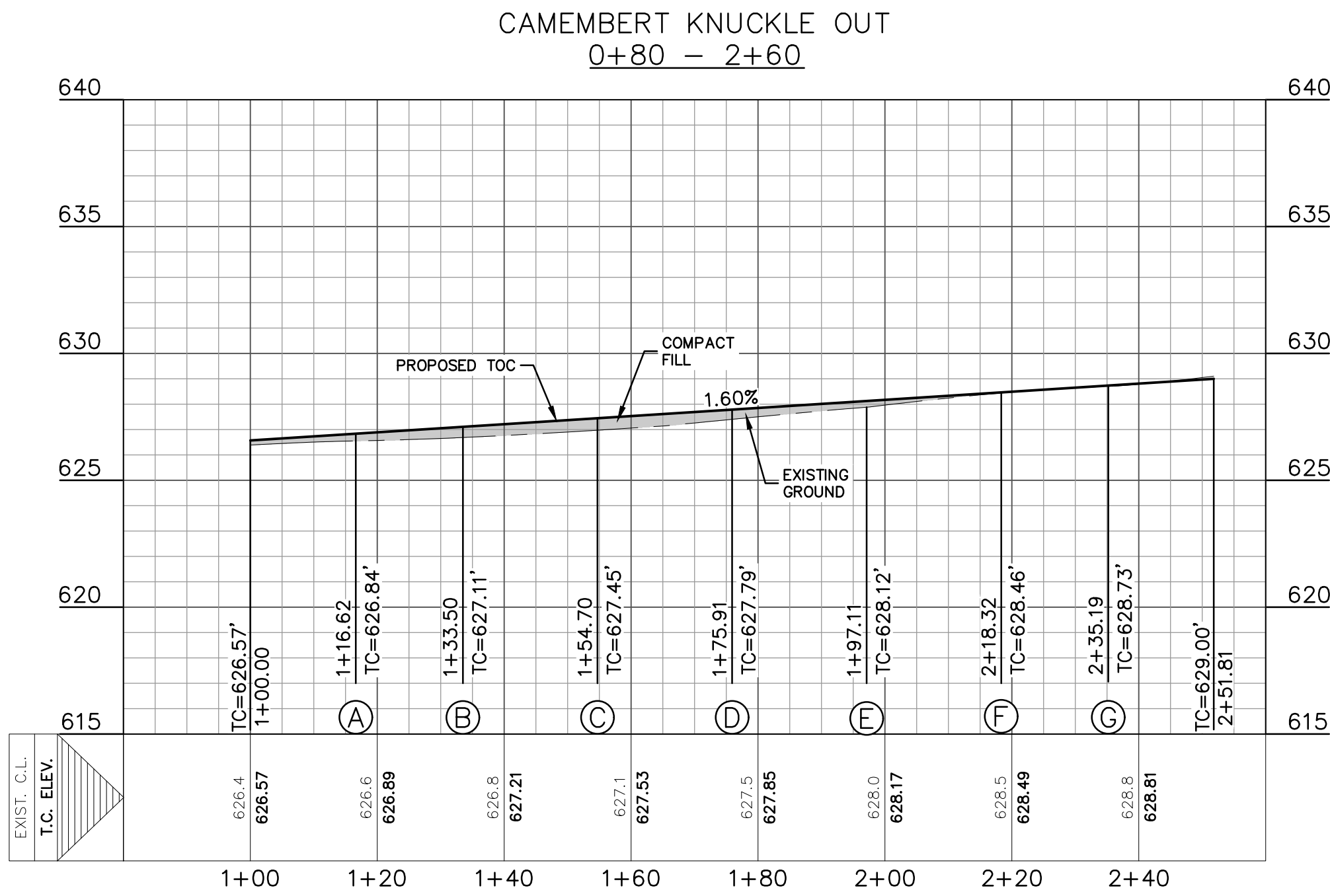
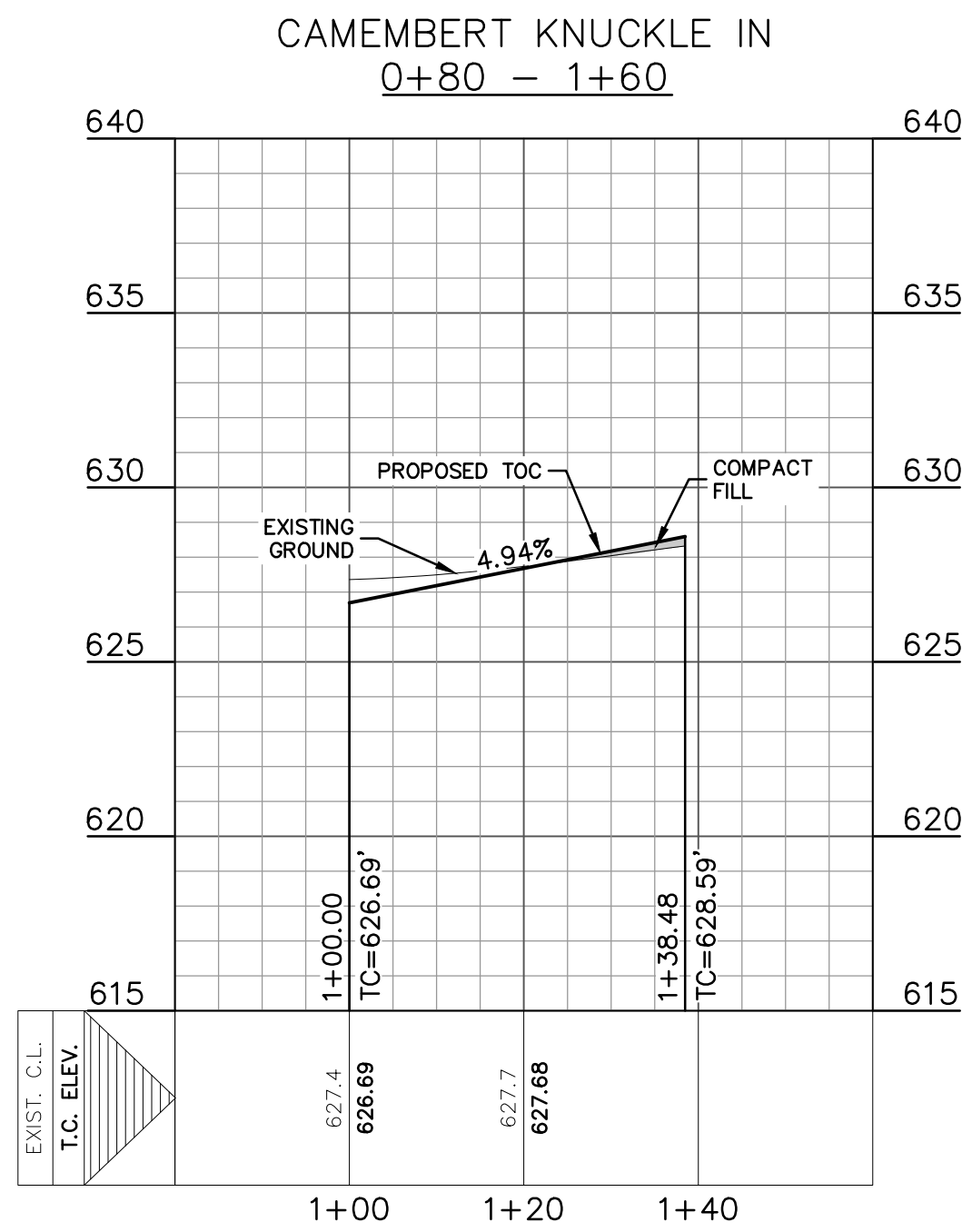
DESIGNED BY: MP

REVIEWED BY: ESP

HMT PROJECT NO.:
248.014

SHEET
C4.9

Drawing Name: M:_Projects\248 - Rauch Coleman Homes\014 - Voges Unit A\CD's\248.014 CAMEMBER ST P&P.dwg User: mat-p Dec 21, 2023 - 4:47pm



- NOTES
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NO.	REVISION	DESCRIPTION	REVISION DATE

DATE: DECEMBER 2023

DRAWN BY: MP

DESIGNED BY: MP

REVIEWED BY: ESP

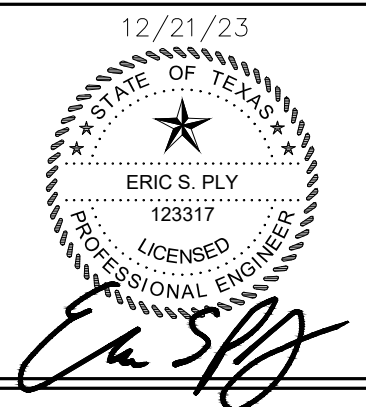
HMT PROJECT NO.: 248.014

SHEET

C4.10

CAMEMBER AND
CABERNET KNUCKLE P&P

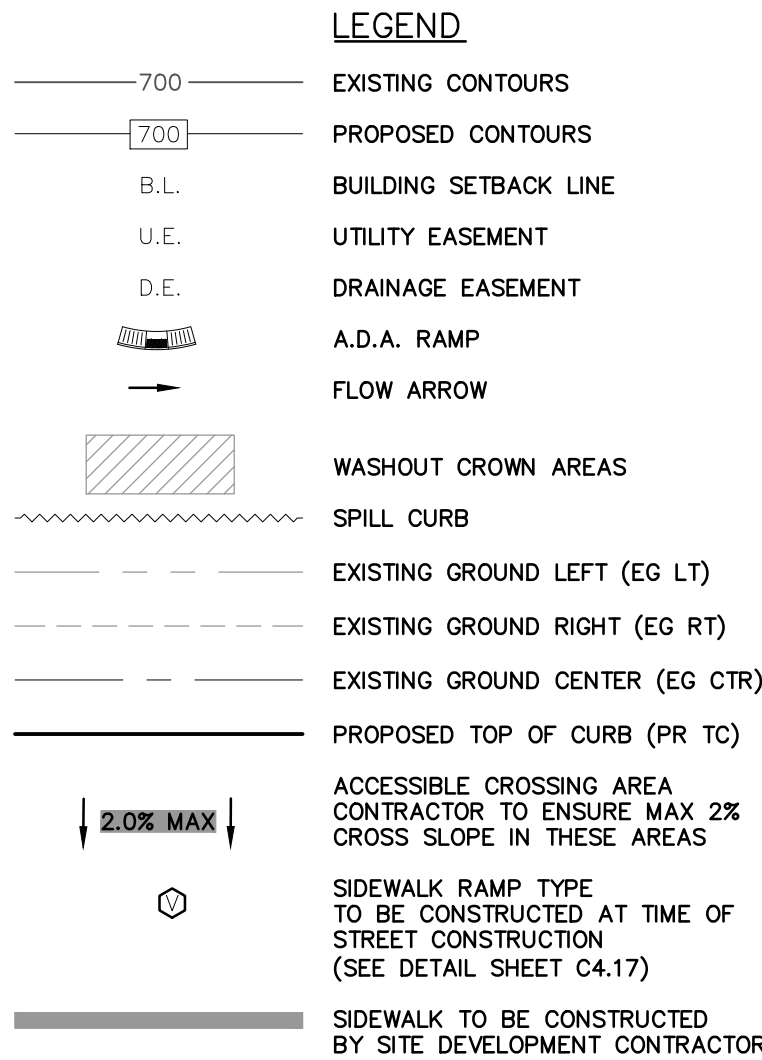
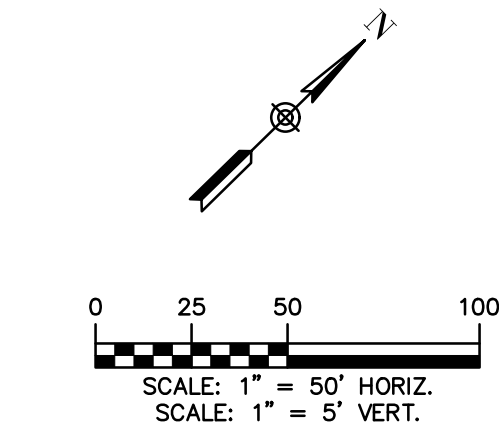
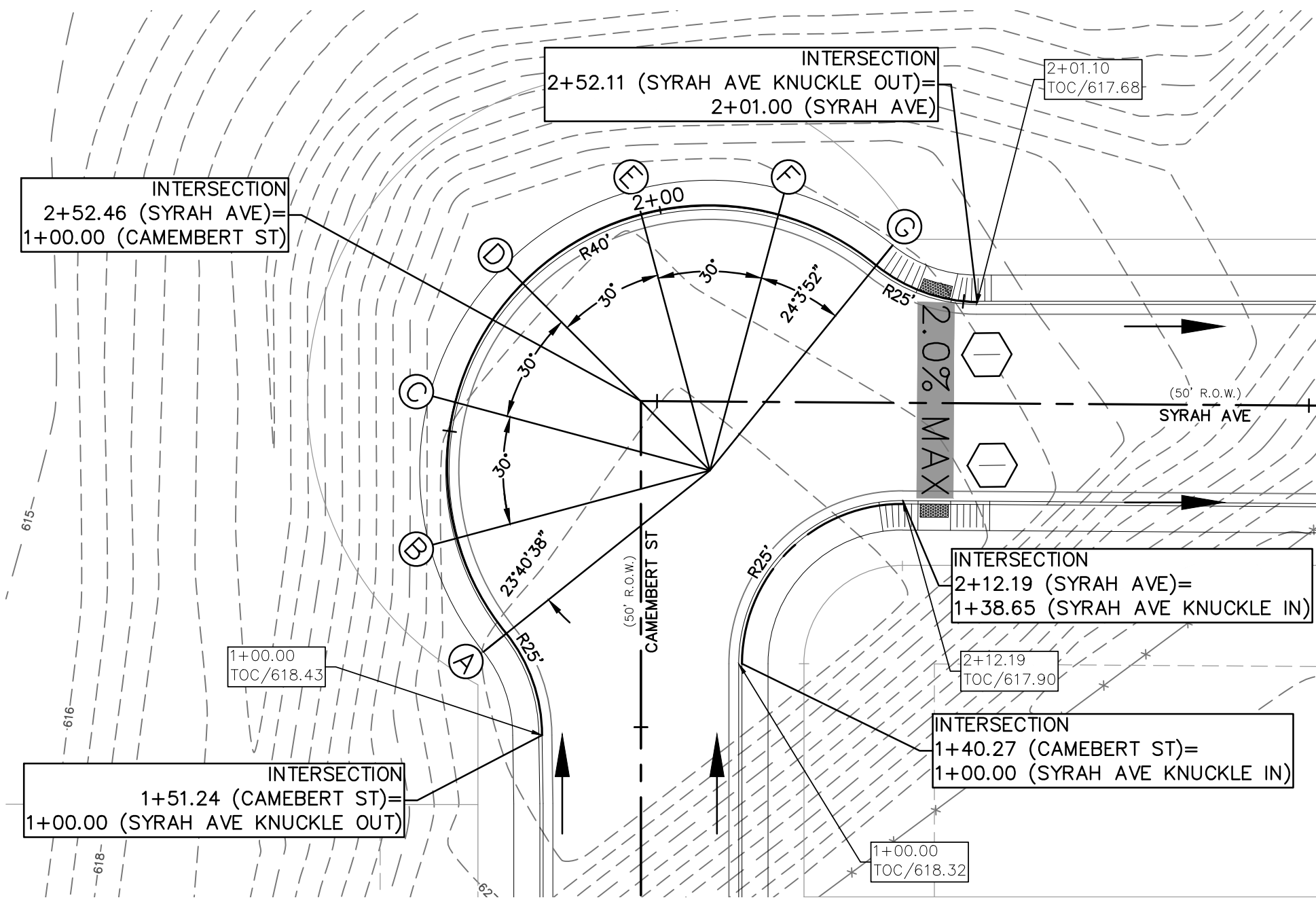
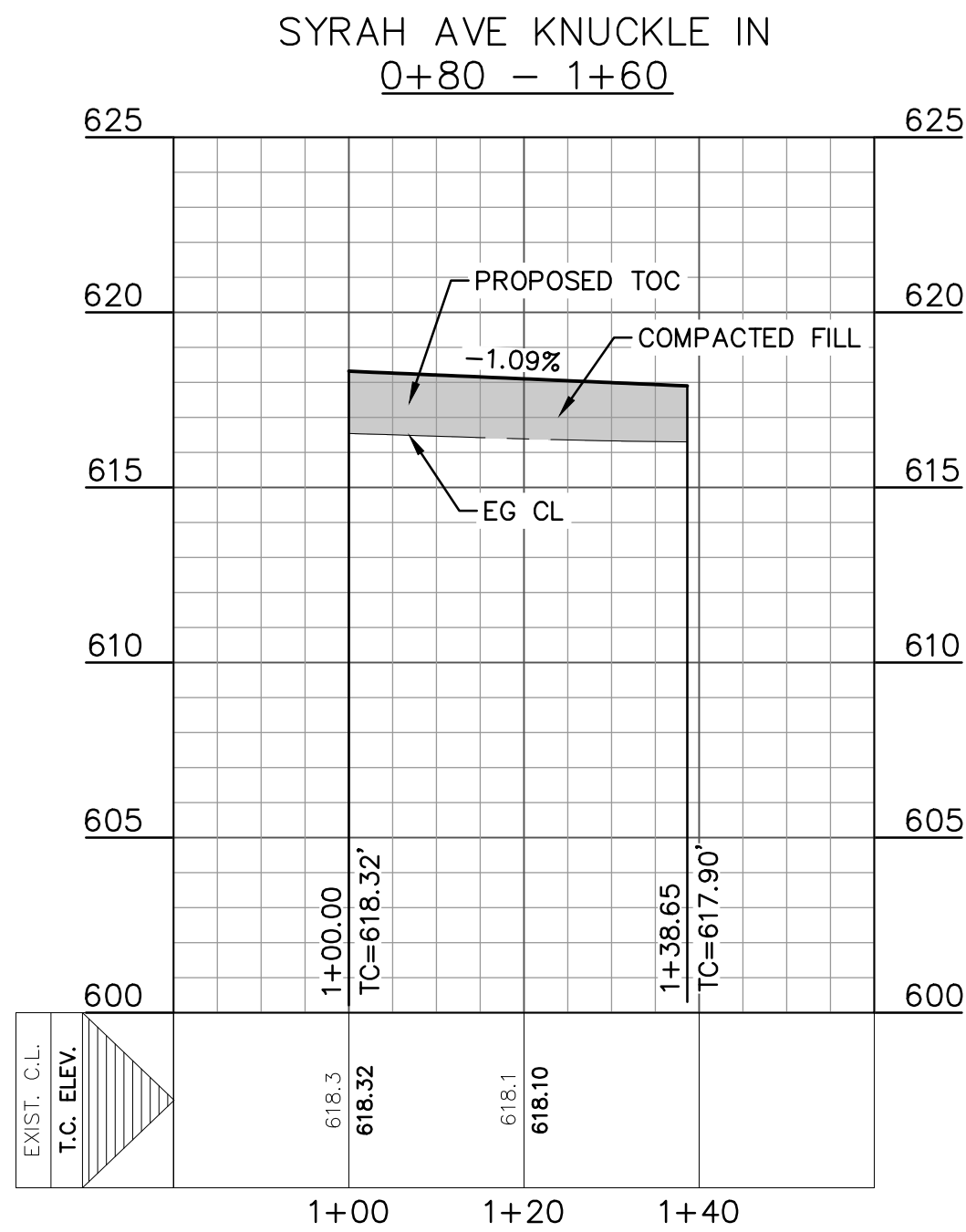
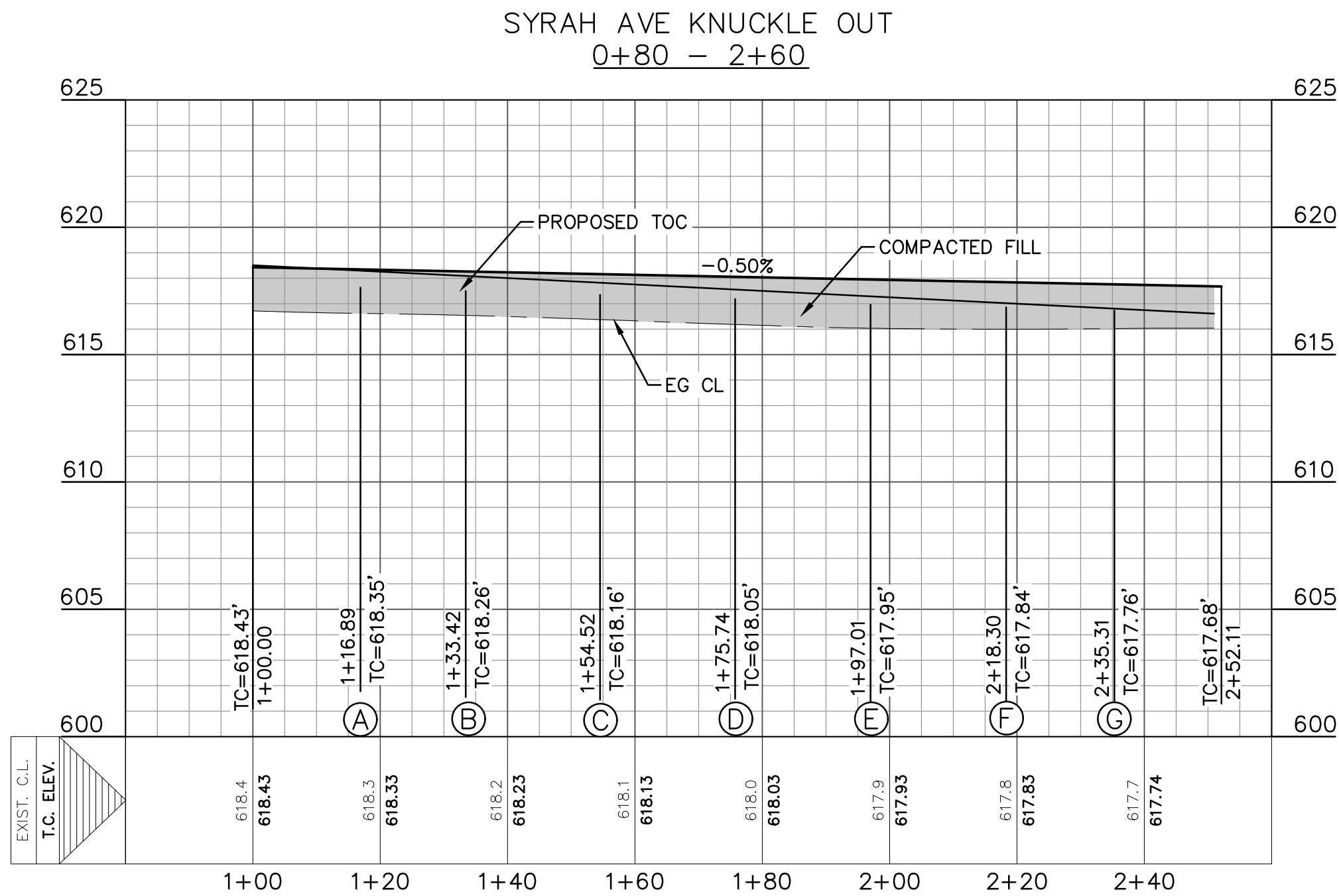
VOGES SUBDIVISION
UNIT 3



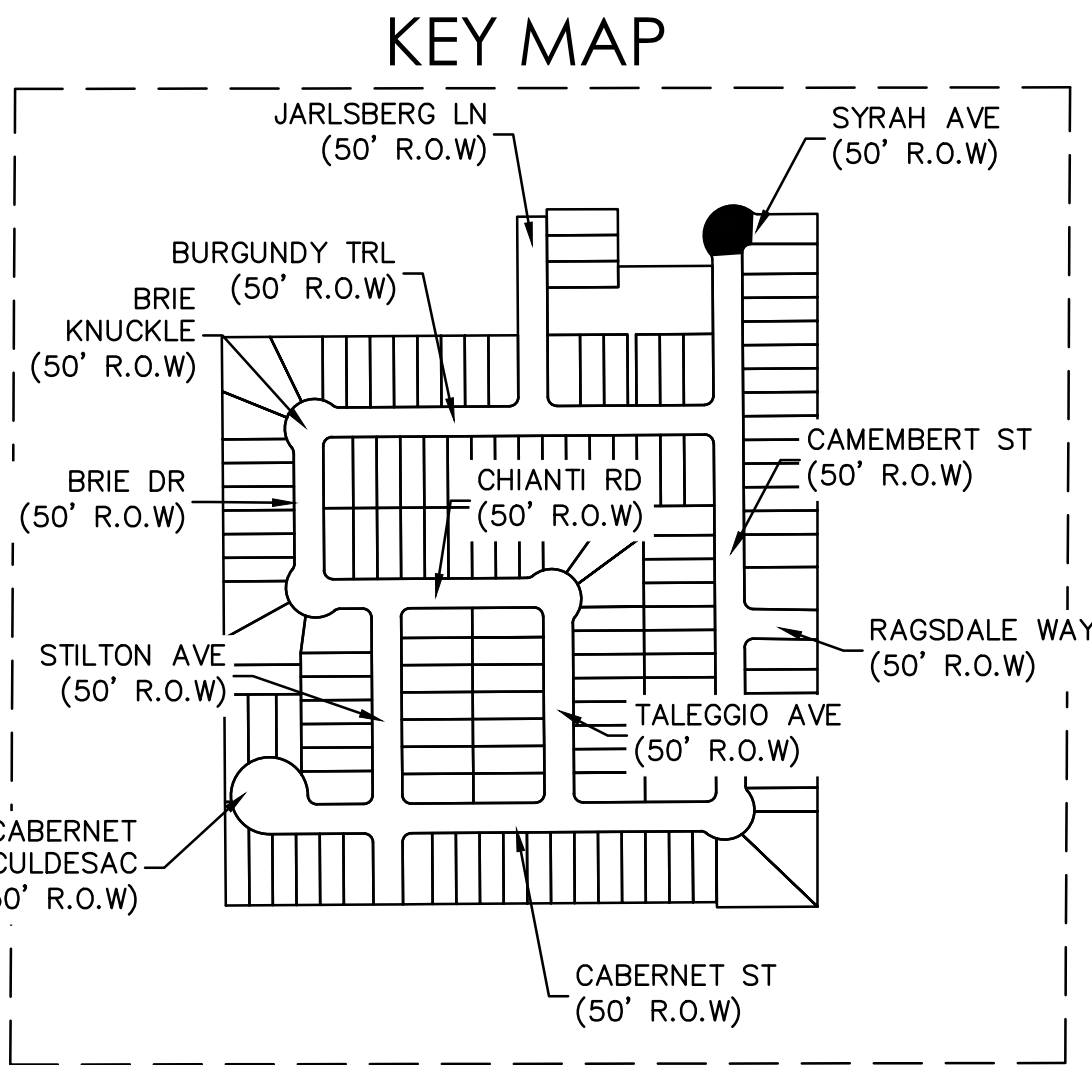
290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600

HMT
ENGINEERING & SURVEYING

12/21/23

ERIC S. PLY
123317
LICENSED PROFESSIONAL ENGINEER
Eric S. Ply

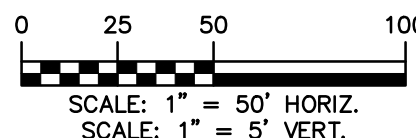
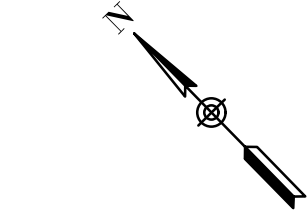
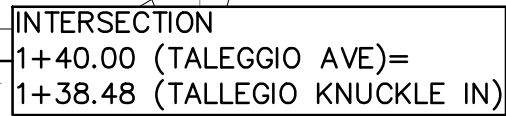
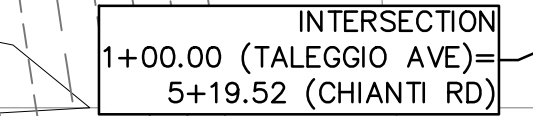
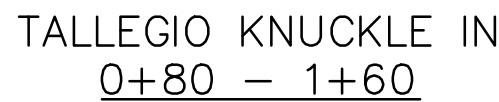
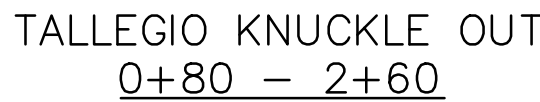
**CAMEMBERT AND
SYRAH KNUCKLE P&P**






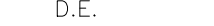










VOGES SUBDIVISION
UNIT 3

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: DECEMBER 2023
DRAWN BY: MP
DESIGNED BY: MP
REVIEWED BY: ESP
HMT PROJECT NO.: 248.014

SHEET
C4.11



- | | |
|---|---|
|  | EXISTING CONTOURS |
|  | PROPOSED CONTOURS |
|  | B.L.
BUILDING SETBACK LINE |
|  | U.E.
UTILITY EASEMENT |
|  | DRAINAGE EASEMENT |
|  | A.D.A. RAMP |
|  | FLOW ARROW |
|  | WASHOUT CROWN AREAS |
|  | SPILL CURB |
|  | EXISTING GROUND LEFT (EG LT) |
|  | EXISTING GROUND RIGHT (EG RT) |
|  | EXISTING GROUND CENTER (EG CTR) |
|  | PROPOSED TOP OF CURB (PR TC) |
|  | ACCESSIBLE CROSSING AREA
CONTRACTOR TO ENSURE MAX 2%
CROSS SLOPE IN THESE AREAS |
|  | SIDEWALK RAMP TYPE
TO BE CONSTRUCTED AT TIME OF
STREET CONSTRUCTION
(SEE DETAIL SHEET C4.17) |
|  | SIDEWALK TO BE CONSTRUCTED
BY SITE DEVELOPMENT CONTRACTOR |

NOTES

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3. CONTRACTOR TO CONSTRUCT SIDEWALK RAMPS WITH STREETS.
4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM STREET STUB OUT SLOPS SO THAT NO "PONDING" OF WATER OCCURS.
5. PER NEW BRAUNFELS ORDINANCE SEC. 114--98(q)(6) ALL DRIVEWAY LOCATED ON A SINGLE FAMILY RESIDENCE ON A LOCAL STREET SHALL HAVE A MINIMUM SPACING OF 20'



N.T.S

[illegible]

DATE: DECEMBER 2023

DRAWN BY: MP

DESIGNED BY: MP

REVIEWED BY: ES

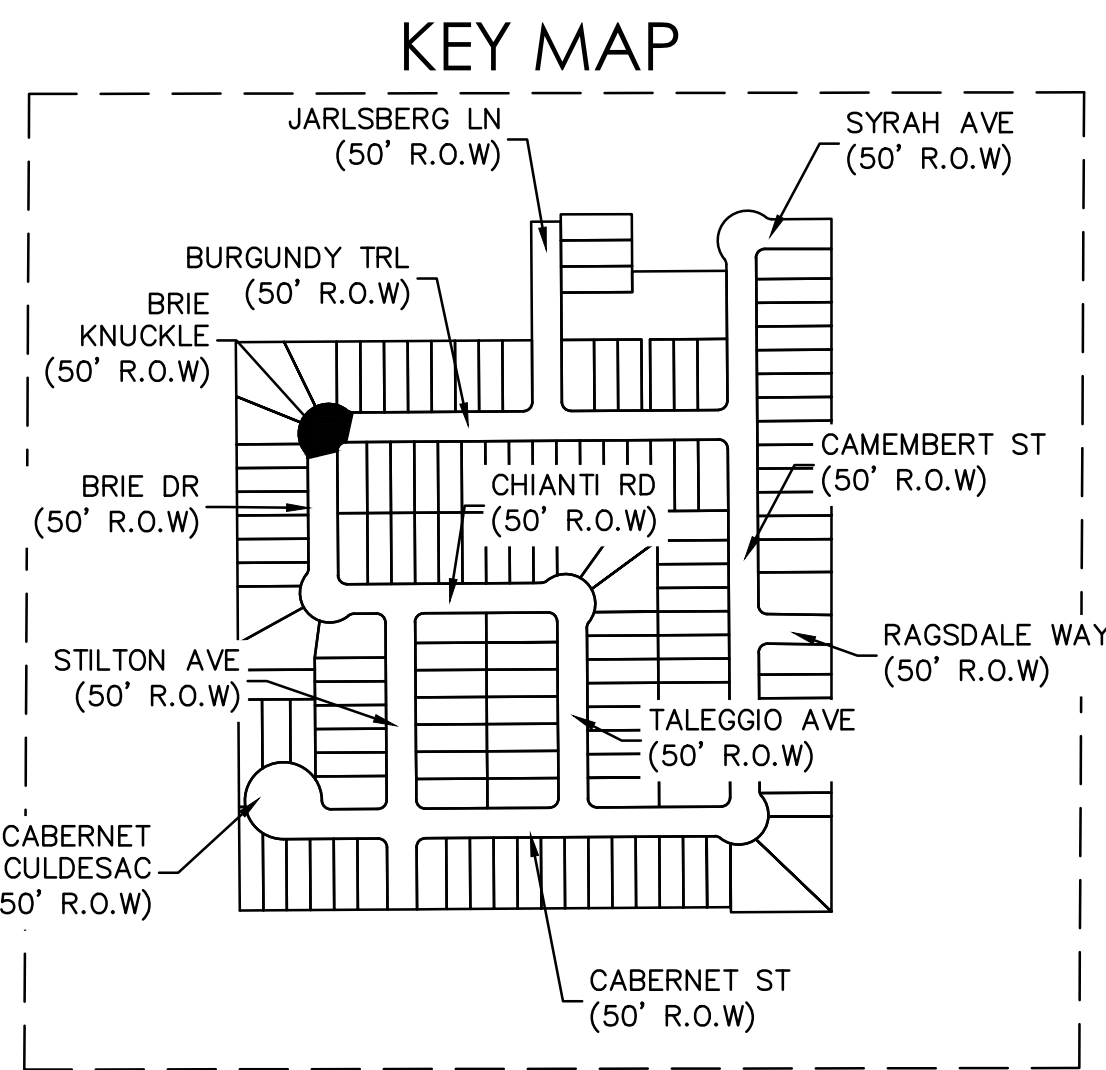
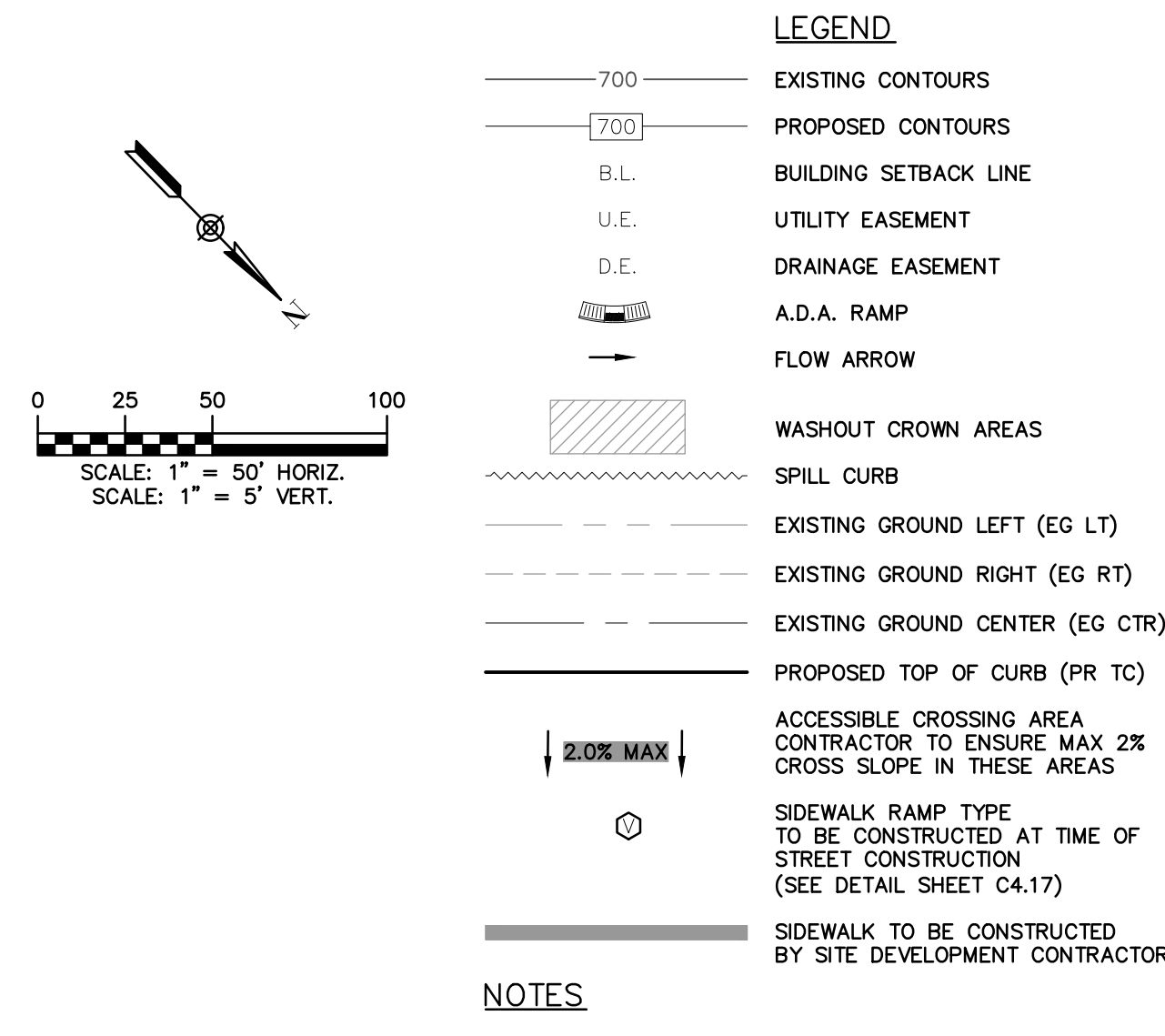
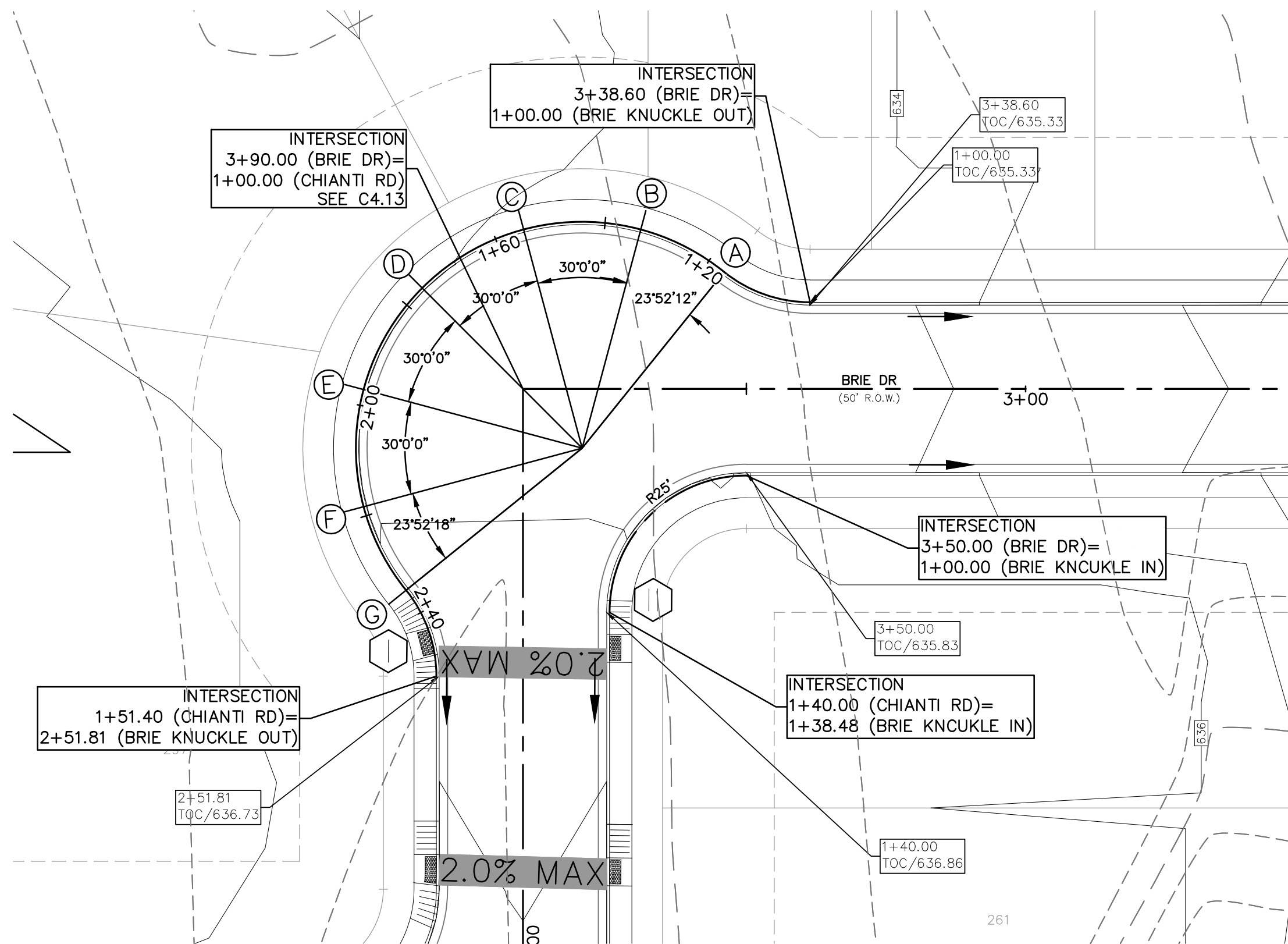
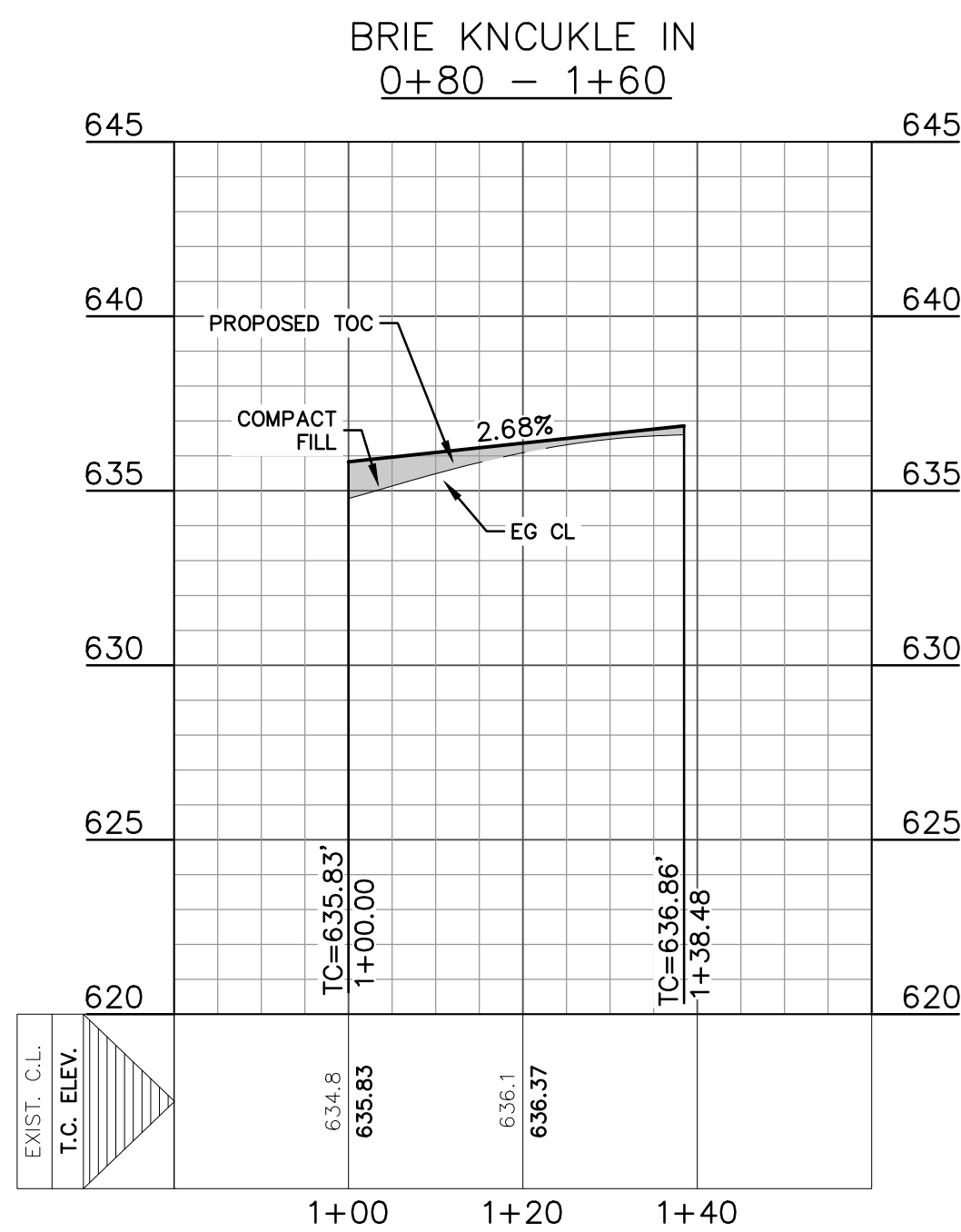
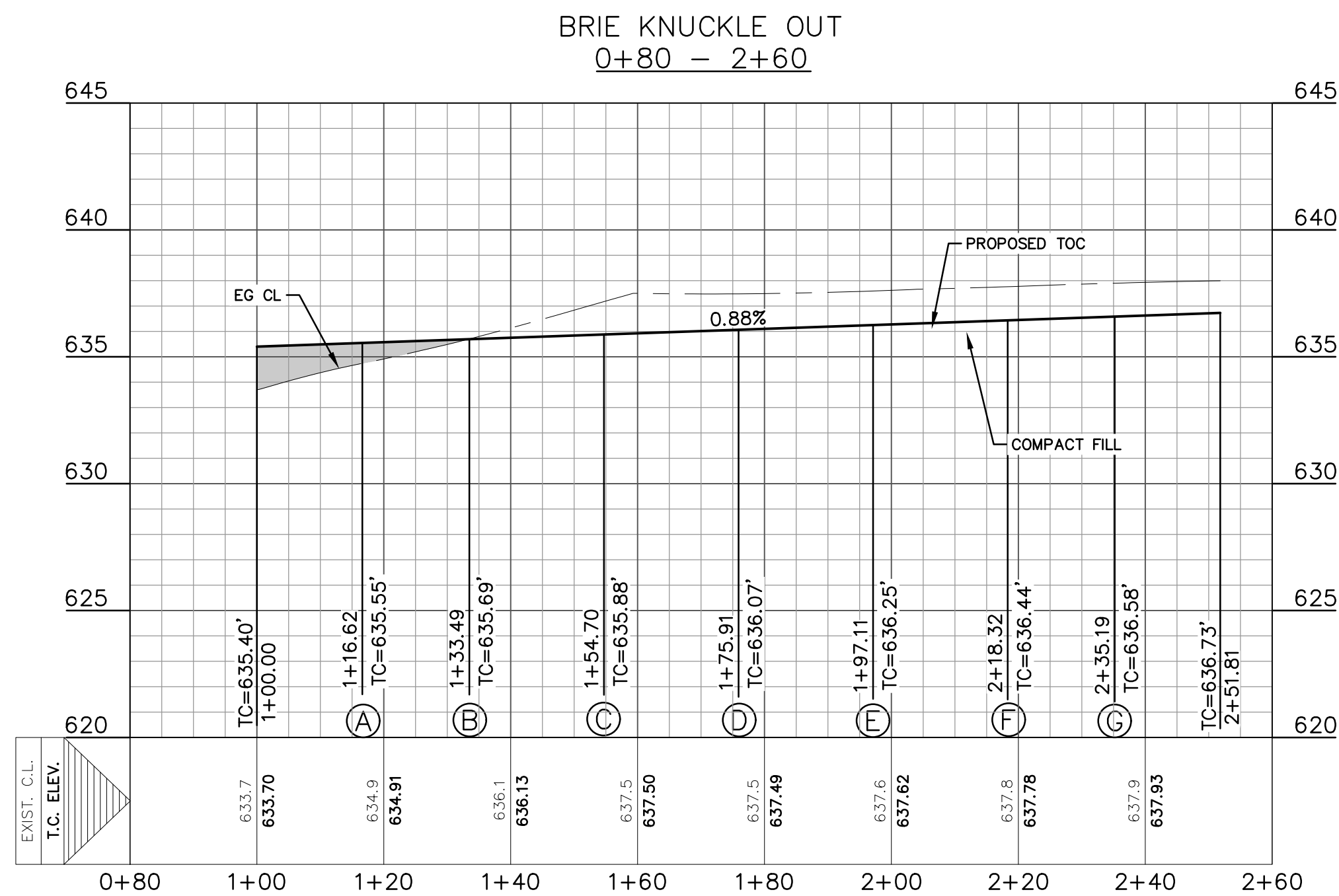
HMT PROJECT NO.:	248.014
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SHEET

C4.12

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

Drawing Name: M:_Projects\248 - Brauch Coleman Homes\014 - Voges Unit A\CD's\248.014 BRIE DR P&P.dwg User: matt-p Dec 21, 2023 - 4:47pm



N.T.S

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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600

HMT
ENGINEERING & SURVEYING

12/21/23

ERIC S. PLY
123317
LICENSED PROFESSIONAL ENGINEER

**BRIE AND CHIANTI
KNUCKLE P&P**
VOGES SUBDIVISION
UNIT 3

NO.	REVISION	DESCRIPTION	REVISION DATE

DATE: DECEMBER 2023

DRAWN BY: MP

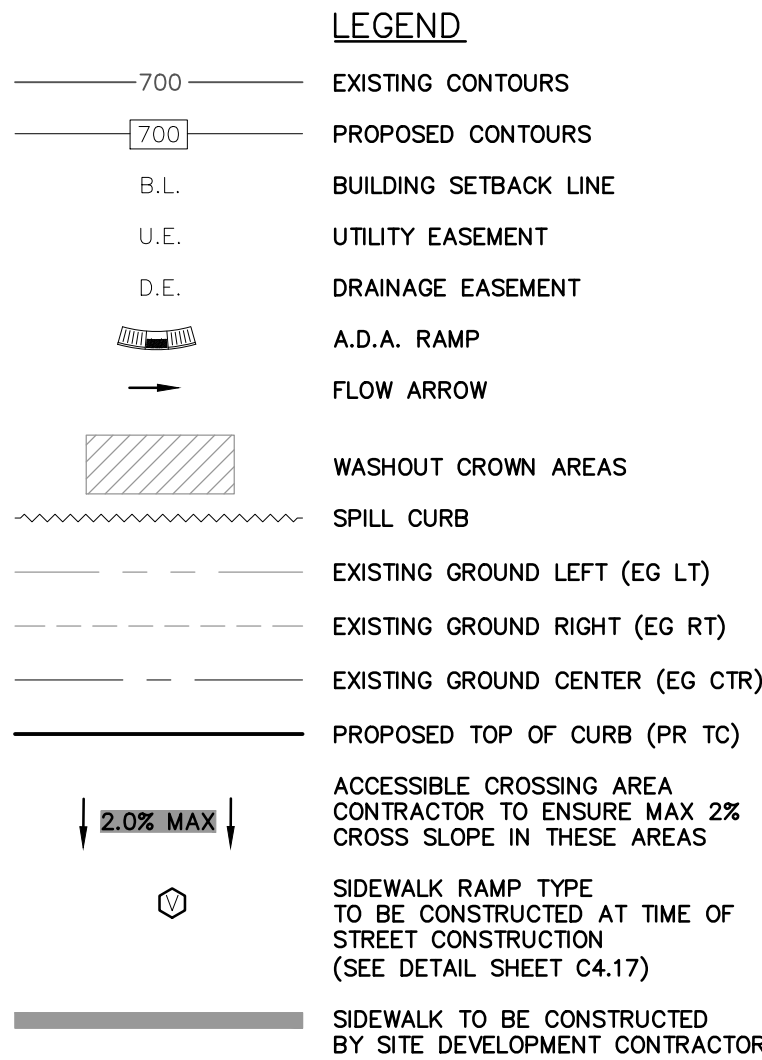
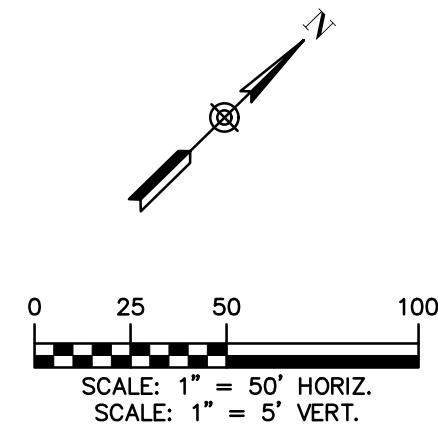
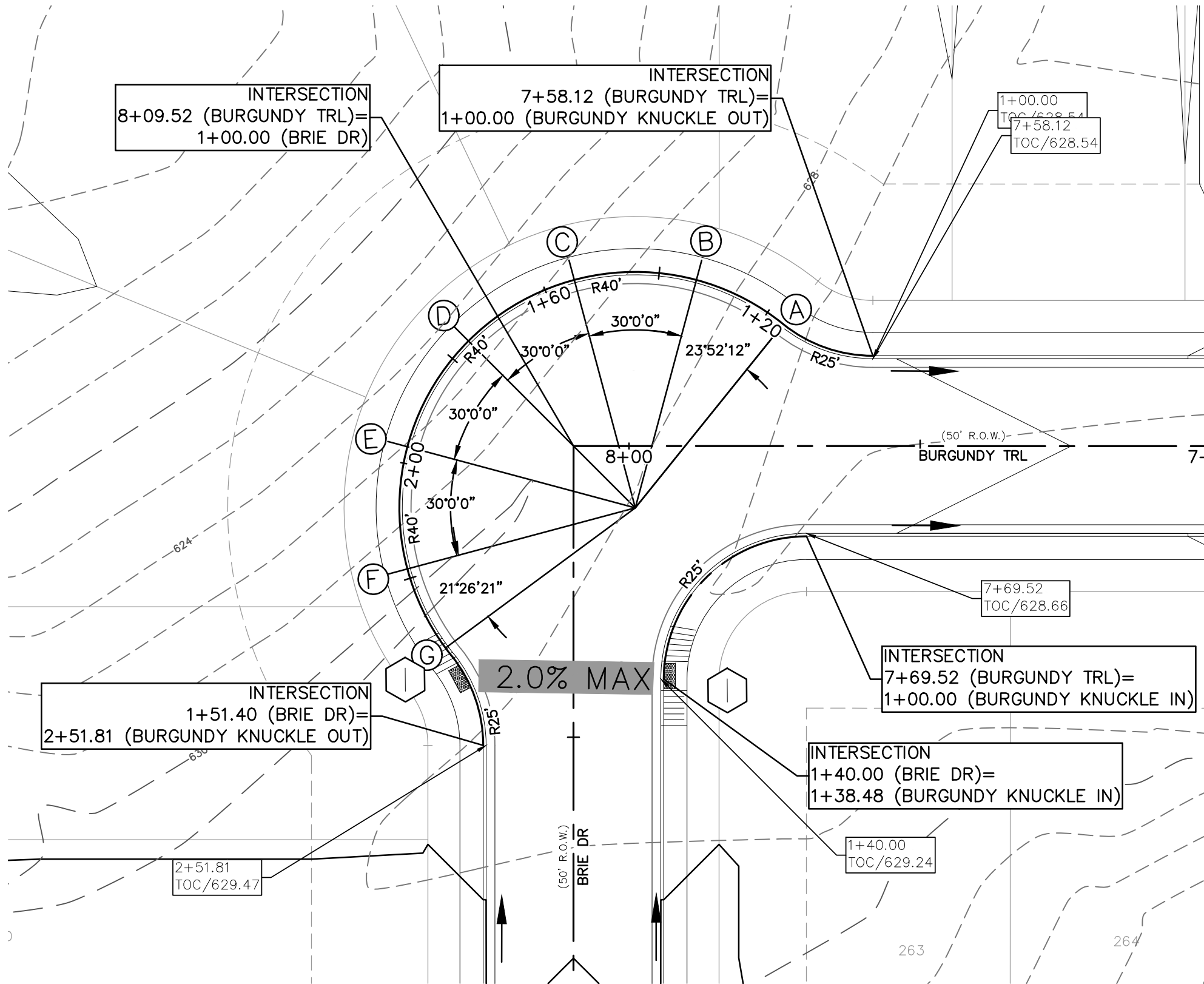
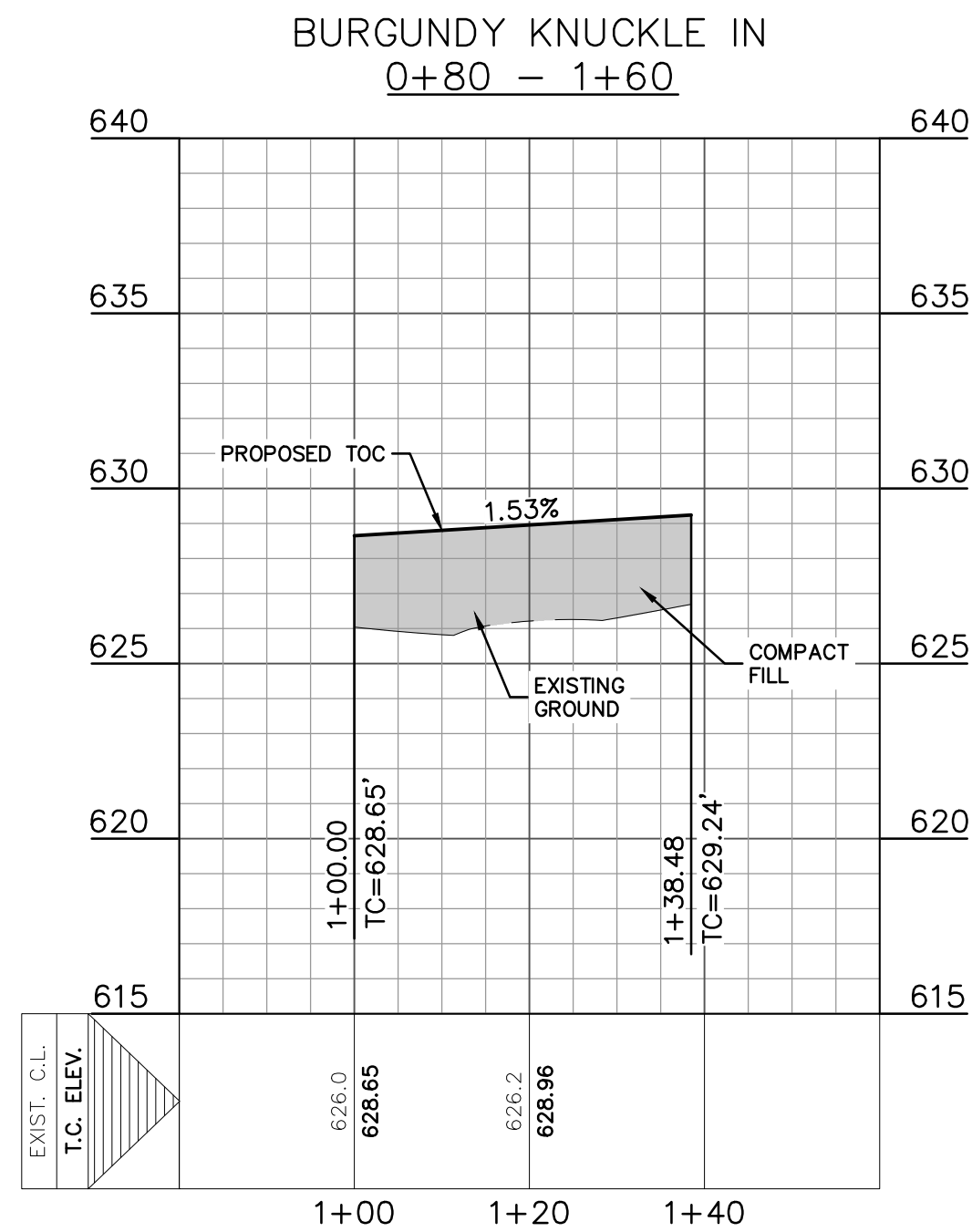
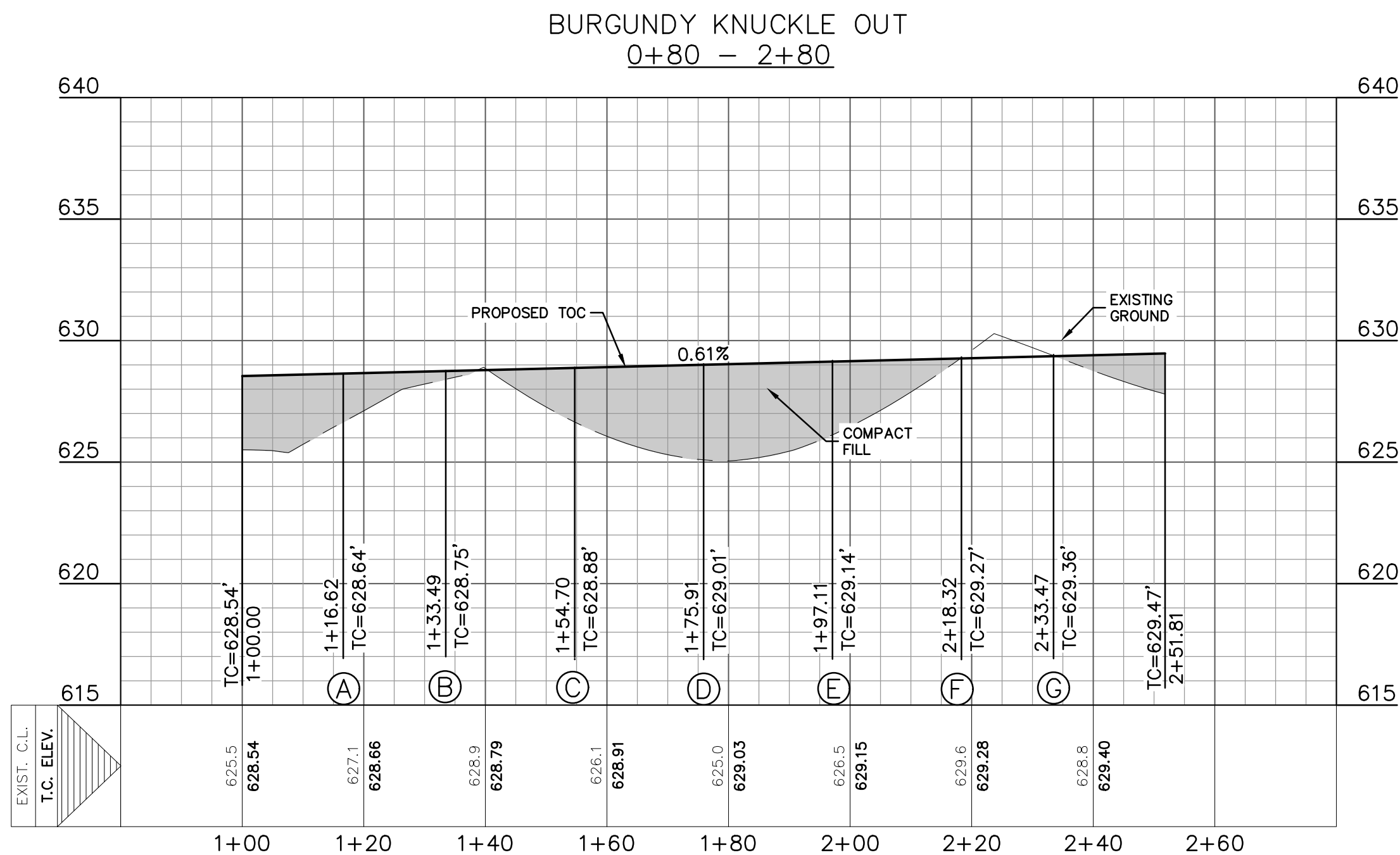
DESIGNED BY: MP

REVIEWED BY: ESP

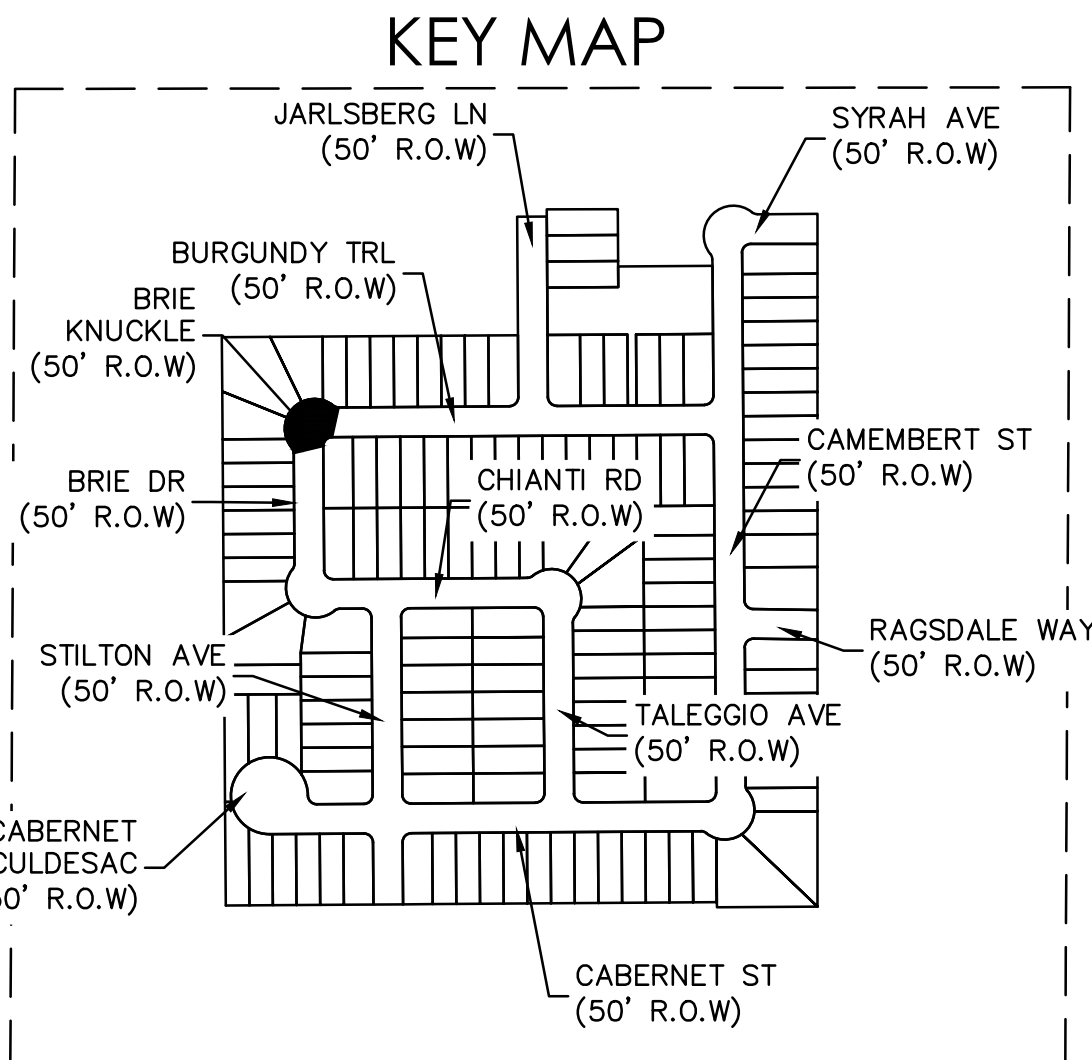
HMT PROJECT NO.: 248.014

SHEET
C4.13

Drawing Name: M:_Projects\248 - Rausch Colomar Homes\014 - Voges Unit_A\CD's\248.014_BURGUNDY_TRL_P&P.dwg User: matt-p Dec 21, 2023 - 4:47pm



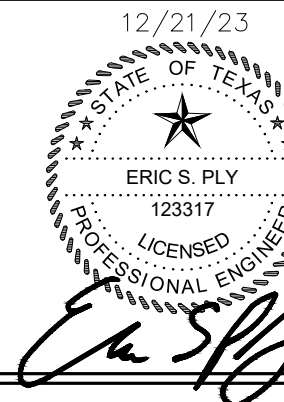
- NOTES**
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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



**BURGUNDY AND BRIE
KNUCKLE P&P**

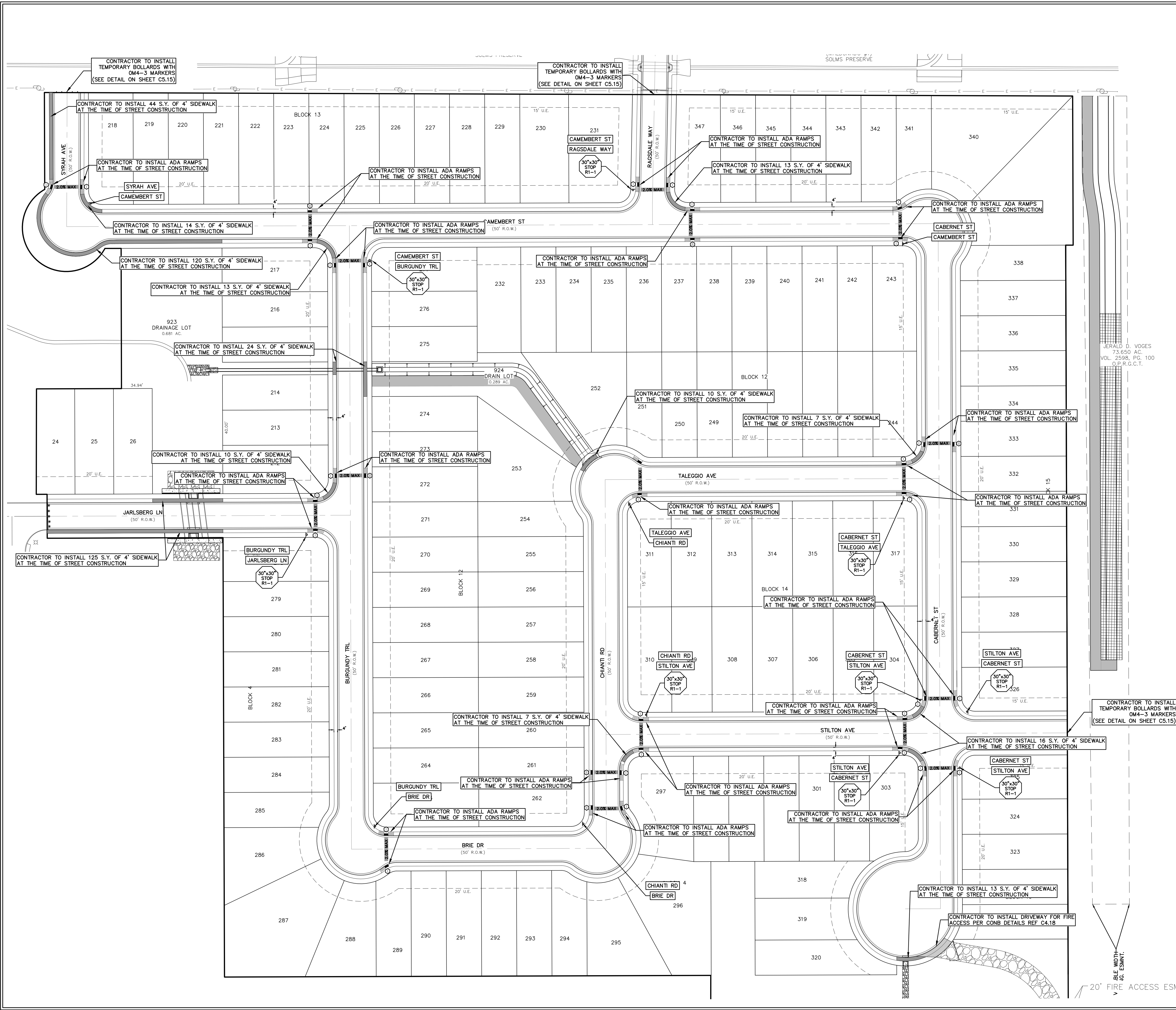
VOGES SUBDIVISION
UNIT 3

NO.	REVISION DESCRIPTION	REVISION DATE

DATE: DECEMBER 2023
DRAWN BY: MP
DESIGNED BY: MP
REVIEWED BY: ESP
HMT PROJECT NO.: 248.014

SHEET
C4.14

Drawing Name: M:_projects\248 - voges unit 4\CD's\248.014_SIGNAGE.dwg User: mdt-p Dec 21, 2023 - 4:46pm



- LEGEND**
- B.L. BUILDING SETBACK LINE
 - U.E. UTILITY EASEMENT
 - D.E. DRAINAGE EASEMENT
 - A.D.A. RAMP
 - ACCESSIBLE CROSSING AREA
CONTRACTOR TO ENSURE MAX 2% CROSS SLOPE IN THESE AREAS
 - SIDEWALK RAMP TYPE
TO BE CONSTRUCTED AT TIME OF STREET CONSTRUCTION
(SEE DETAIL SHEET C4.17)
 - SIDEWALK TO BE CONSTRUCTED BY SITE DEVELOPMENT CONTRACTOR
 - TEMPORARY BOLLARDS

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- 0 25 50 100
HORIZONTAL SCALE: 1:50

- SIGNAGE NOTES**
- INSTALLATION**
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REGULATORY, WARNING AND STREET NAME SIGNS AND SIGN MOUNTS IN ACCORDANCE WITH APPROVED ENGINEERING PLANS.
- MOUNTING**
- THE WEDGE ANCHOR STEEL SYSTEM AND THIN-WALLED TUBING POST SHALL BE USED FOR SIGNS WITH UP TO 10 SQUARE FEET OF SIGN AREA. MATERIALS AND INSTALLATION SHOULD FOLLOW THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) TRAFFIC STANDARDS SMD (GEN) - 08 AND SMD (TWT) - 08.
- THE TRIANGULAR SLIP BASE SYSTEM AND 10 BWG TUBING POST SHALL BE USED FOR SIGNS THAT HAVE 10 TO 16 SQUARE FEET OF SIGN AREA. MATERIALS AND INSTALLATION SHOULD FOLLOW THE TXDOT TRAFFIC STANDARDS SMD (GEN) - 08 AND SMD (SLIP-1-3) - 08.
- OBJECT MARKERS MATERIALS AND INSTALLATION SHOULD FOLLOW THE TXDOT TRAFFIC STANDARDS D & OM (1 - 5) - 10.

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600

HMT
ENGINEERING & SURVEYING

12/21/23

ERIC S. PLY
123317
LICENSED PROFESSIONAL ENGINEER
Eric S. Ply

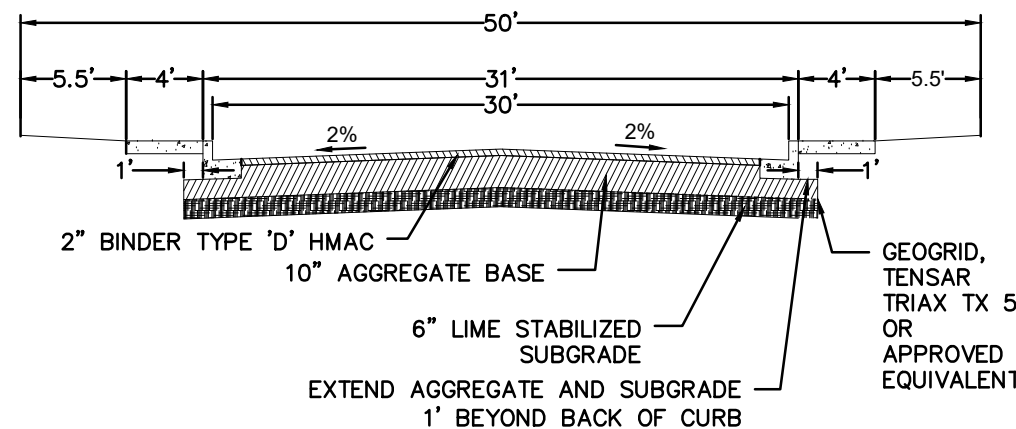
SIGNAGE PLAN

VOGES SUBDIVISION
UNIT 3

NO.	REVISION	DESCRIPTION	DATE

DATE: DECEMBER 2023
DRAWN BY: MP
DESIGNED BY: MP
REVIEWED BY: ESP
HMT PROJECT NO.: 248.014

SHEET
C4.16



RESIDENTIAL LOCAL PAVEMENT SECTION

Summary Table A – Summary of Recommended Options – Flexible Pavement **
Minimum Flexible Pavement Recommendations – CBR = 2.0 **

Classification	Surface Course	Aggregate Base, Inches	Cement Treated Aggregate Base	Geogrid	Subgrade, Inches	Structural Number
Emergency Access	Chip Seal	13.00	-	No	8"	2.46
	Chip Seal	-	10.00	No	8"	2.74
	Chip Seal	10.00	-	Yes	8"	2.91
	2.0" Type D Asphalt	8.00	-	No	6"	2.48

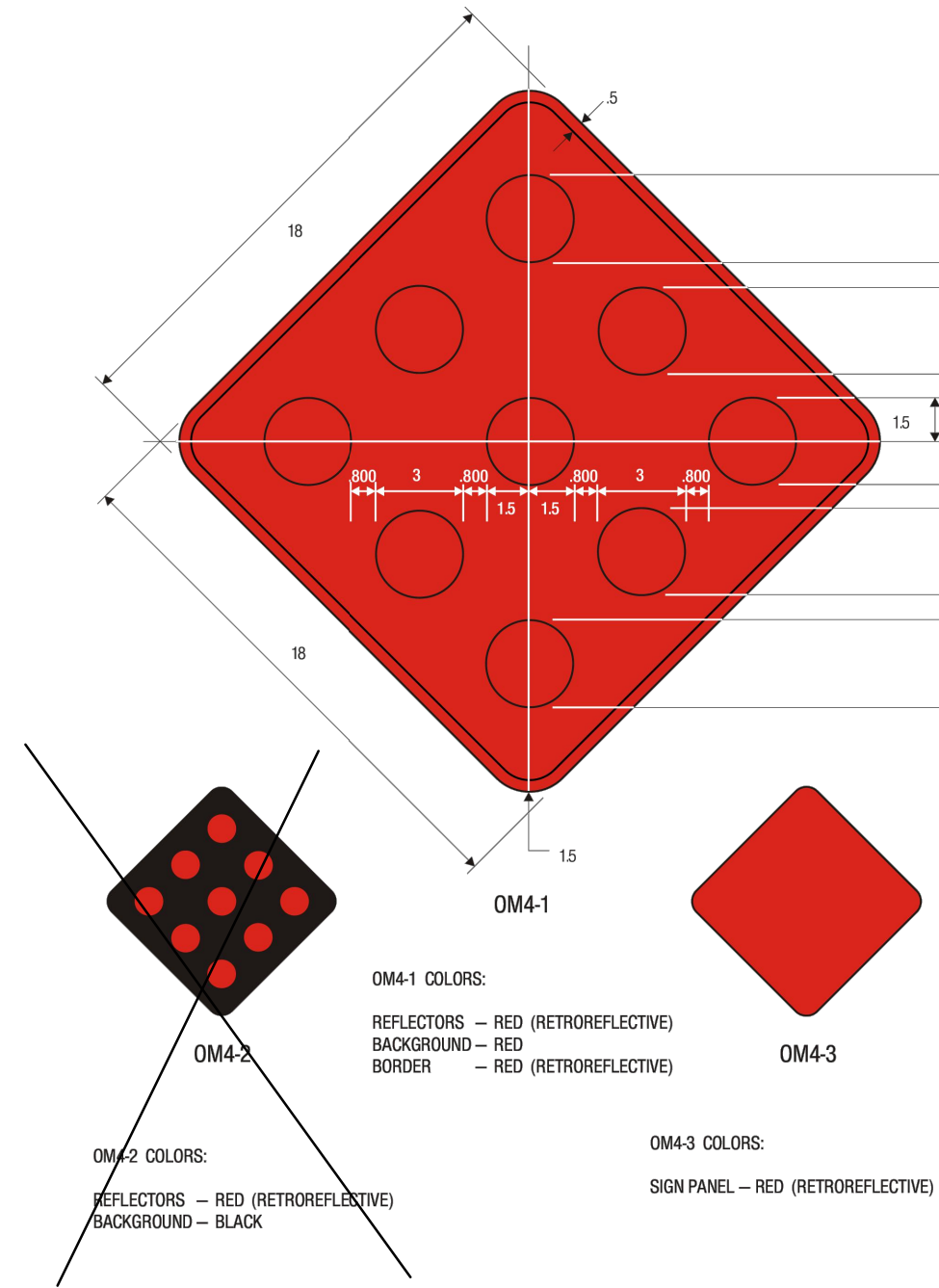
FIRE ACCESS PAVEMENT SECTION

Summary of Recommended Options – Flexible Pavement ** Minimum Flexible Pavement Recommendations – CBR = 2.0 **					
Classification	Hot Mix Asphaltic Concrete Thickness Inches	Aggregate Base Thickness Inches	Geogrid	Subgrade Thickness Inches	Structural Number
Residential Local	2.00 Type D	10.00	Yes	0"	2.96
Residential Collector	3.00 Type D	16.50	Yes	0"	4.53

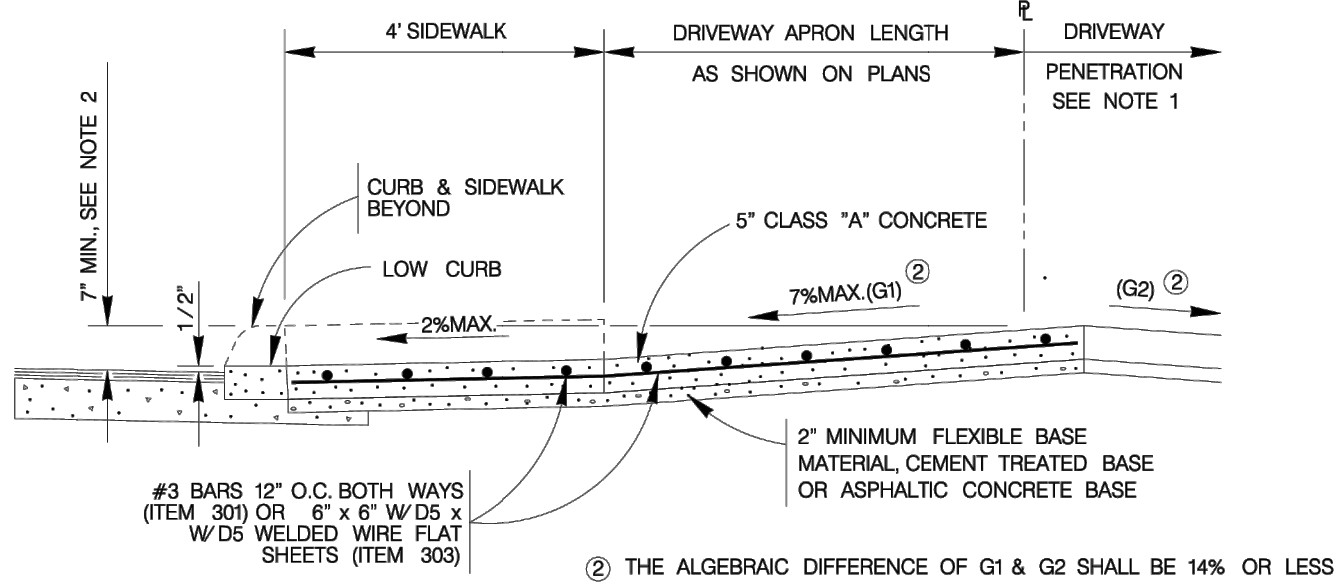
NOTE:

- ALL PAVEMENT CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE TO THE "SUBSURFACE EXPLORATION AND PAVEMENT ANALYSIS, PROPOSED NEW STREETS, VOGES SUBDIVISION, UNITS 1,2,3,4 NEW BRAUNFELS, TEXAS", BY INTEC OF SAN ANTONIO, LP, DATED SEPTEMBER 27, 2019.
- THE SUBGRADE SHOULD BE STABILIZED USING LIME TO A DEPTH OF 8 INCHES. LIME CONTENT OF 7.0 PERCENT OF THE DRY WEIGHT OF THE SOIL TO BE TREATED IS RECOMMENDED; A UNIT WEIGHT OF THE CLAY OF 100 LBS PER CUBIC FEET MAY BE USED.
1. LIME CONTENT FOR 6 INCH STABILIZATION - 30 LBS PER SQ YARD
2. THE SUBGRADE SHOULD BE STABILIZED USING LIME IN ACCORDANCE WITH THE GEOTECHNICAL REPORT IN ORDER TO ACHIEVE THE FOLLOWING:
 1. PLASTICITY INDEX OF 20 OR LESS
 2. PH OF 12.4 OR GREATER
3. THE SUBGRADE SOILS SHOULD BE TESTED FOR SOLUBLE SULPHATE CONTENT PRIOR TO INSTALLATION OF THE LIME OR CEMENT.

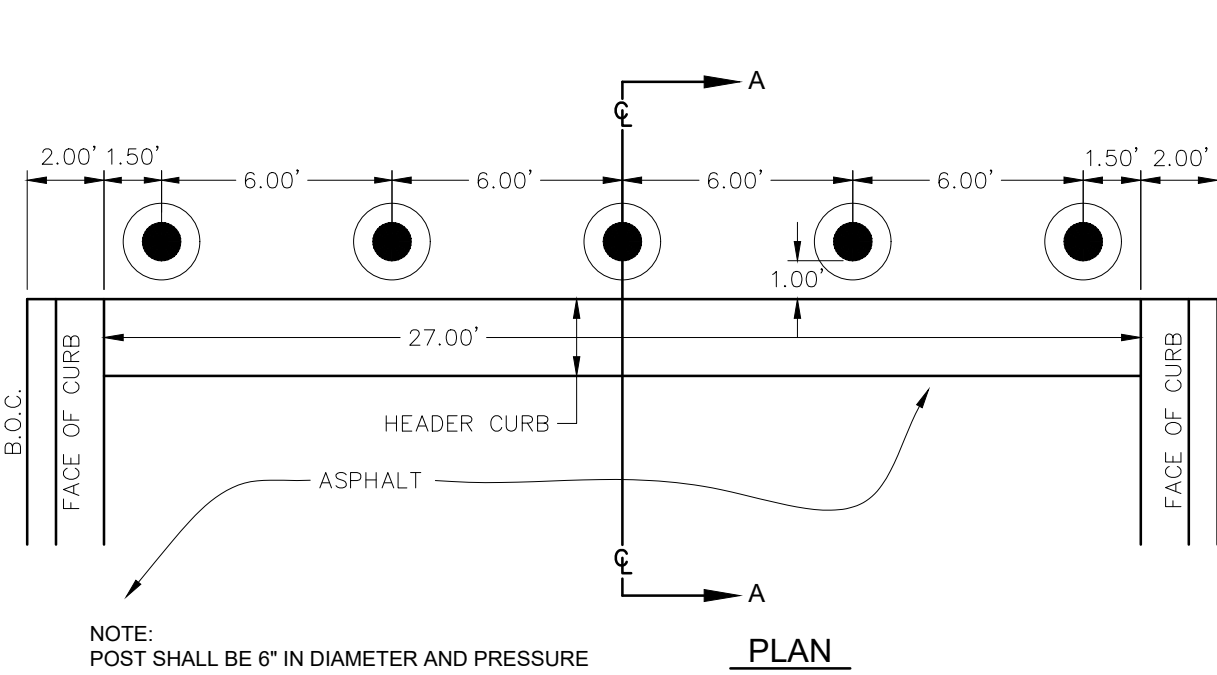
TYPICAL PAVEMENT SECTION



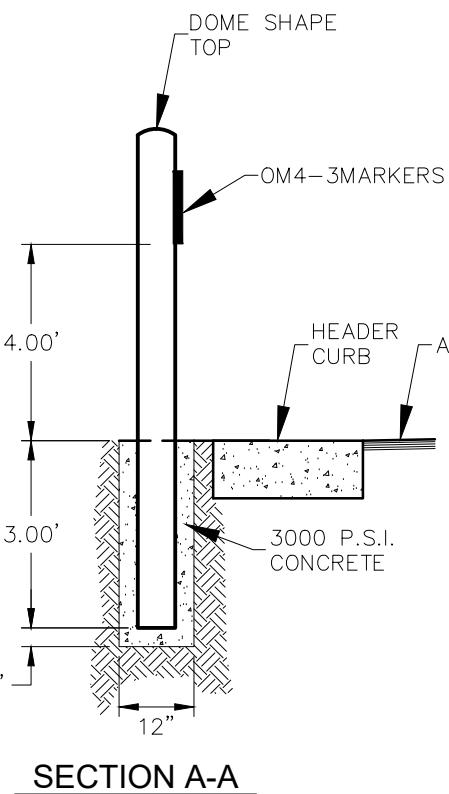
OM4-3 DETAIL



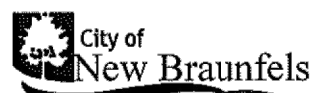
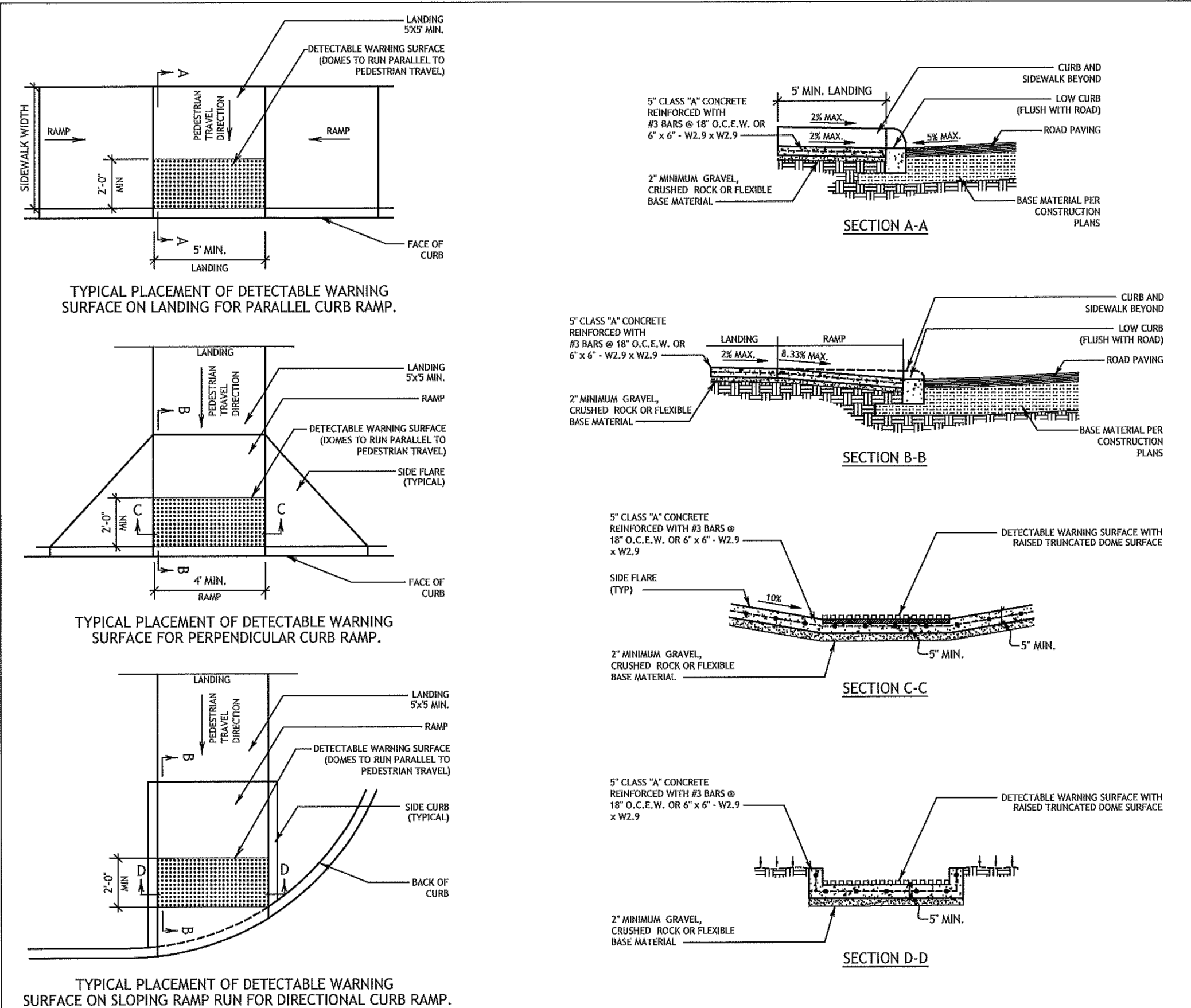
TYPE 'C' LOT DRIVEWAY DETAIL



END OF ROAD MARKERS
NOT TO SCALE



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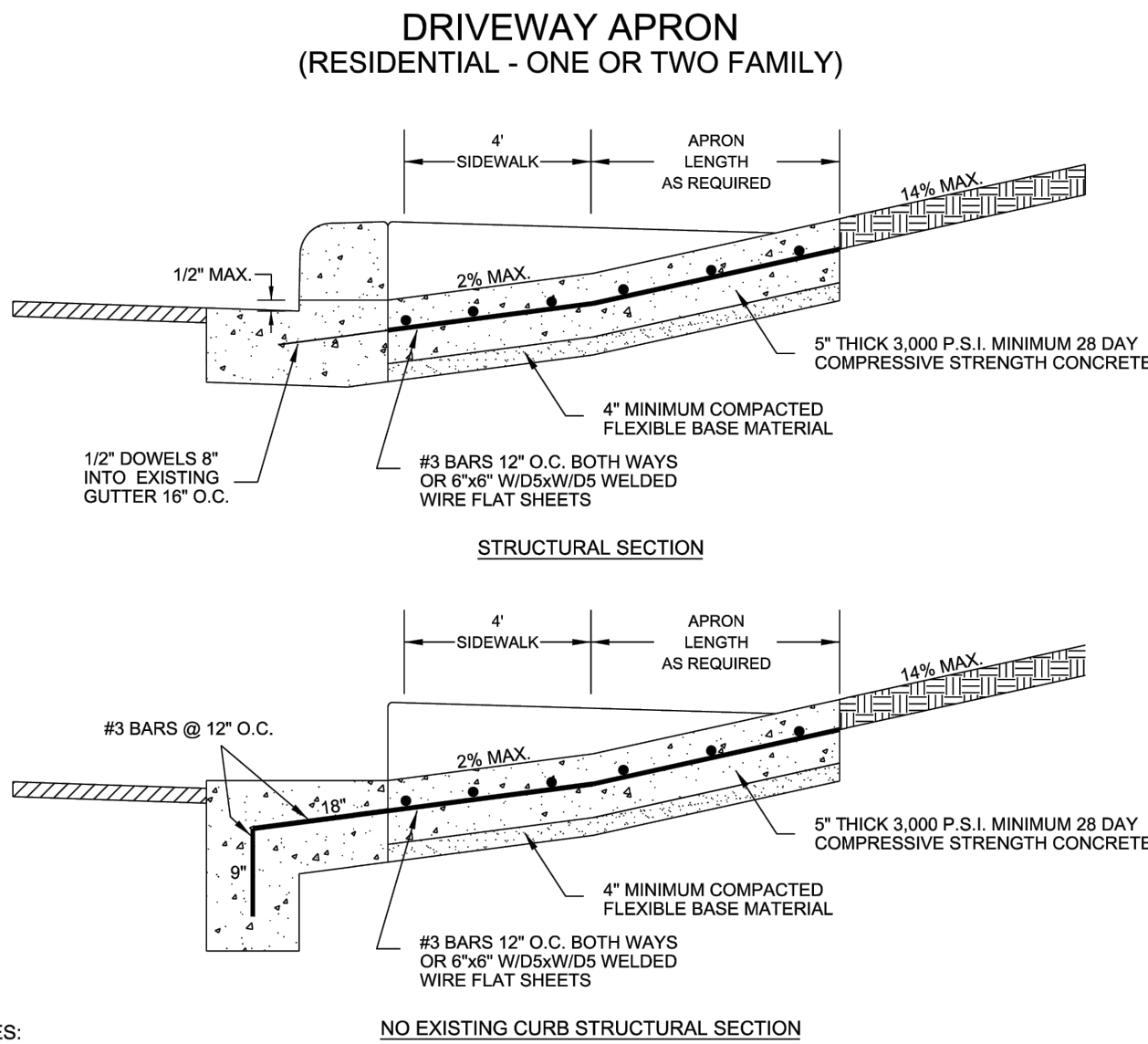
ENGINEERING DIVISION
850 LANDA STREET
NEW BRAUNFELS, TEXAS 78130
PHONE: 830 221 4020
FAX: 830 828 3600

CURB RAMP STANDARDS		
APPROVED DATE:	05/18/2017	DWG. NO.: ST-019
DRAWN BY:	RC	CONTACT: GF
SCALE:	AS NOTED	SHEET: 1 OF 1

- #### CURB RAMP NOTES
- ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED.
 - THESE DETAILS ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS OF CURB RAMP ARE TO BE SHOWN ON THE CONSTRUCTION PLANS. ALL ACCESSIBLE WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT (ADA) AND TEXAS ACCESSIBILITY STANDARDS (TAS). CITY ENGINEER OR BUILDING OFFICIAL MAY ADJUST LOCATIONS FOR SAFETY OR UTILITY CLEARANCE.
 - THE MINIMUM STANDARD SIDEWALKS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 118-49 OF THE NEW BRAUNFELS CODE OF ORDINANCES.
 - ALL LANDINGS WHERE REQUIRED SHALL BE 5'x 9' (60"x60") MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
 - RAMP LENGTHS SHALL BE SUFFICIENT TO MAINTAIN A MAXIMUM SLOPE OF 8.33% (1V:12H). MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP SURFACES IS 2% (1V:50H).
 - SIDEWALK GRADES SHALL NOT EXCEED THE GRADE ESTABLISHED FOR THE ADJACENT ROADWAY. ANY SIDEWALK CONSTRUCTION THAT DEVIATES FROM THE GRADE OF THE NATURAL GRADE OF THE ROADWAY TO CREATE A GRADE STEEPER THAN THE EXISTING ROADWAY WILL REQUIRE RAMPS, HANDRAILS, AND LANDINGS IN ACCORDANCE WITH CURRENT ADA AND TAS REQUIREMENTS.
 - PROVIDE FLARED RAMP SIDES WITH A MAXIMUM SLOPE OF 10% (1V:10H) MEASURED ALONG THE CURB LINE. CURB RETURNS MAY BE USED INSTEAD OF SIDE FLARES IN AREAS NOT NORMALLY WALKED ACROSS BY PEDESTRIANS, BECAUSE THE ADJACENT SURFACE IS VEGETATION OR OTHER NON-WALKING SURFACE OR WHERE THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
 - MAINTAINING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4'x 4' (48"x48") WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
 - CROSSWALK DIMENSIONS, CROSSWALK MARKINGS AND STOP BAR LOCATIONS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS. AT INTERSECTIONS WHERE CROSSWALK MARKINGS ARE NOT REQUIRED, CURB RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE CITY ENGINEER OR BUILDING OFFICIAL.
 - EXISTING FEATURES THAT COMPLY WITH CURRENT TAS REQUIREMENTS MAY REMAIN IN PLACE UNLESS OTHERWISE SHOWN ON THE PLANS.
 - HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. PROVIDE CURB RAMPS WHEREVER AN ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
 - SEPARATE CURB RAMP AND LANDINGS FROM ADJACENT SIDEWALK AND ANY OTHER ELEMENTS WITH PRE-MOLDED OR BOARD JOINT OF 1/2" UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER OR BUILDING OFFICIAL.
 - PROVIDE A SMOOTH TRANSITION WHERE THE CURB RAMPS CONNECT TO THE STREET.
 - THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES SHALL BE LESS THAN 11%. THE CHANGE OF GRADE SHALL BE DETERMINED AS THE ALGEBRAIC DIFFERENCE OF THE ADJACENT SURFACE SLOPES. IN THE CASE OF A STREET ACCESS RAMP DESIGNED AT THE 8.33% MAXIMUM SLOPE, THE ADJACENT PAVEMENT CROSS SLOPE SHALL BE LESS THAN 2.67% (I.E. 8.33/(-2.67)=-11). IN ADDITION, THE ADJACENT PAVEMENT CROSS SLOPE SHALL BE LESS THAN OR EQUAL TO 3%.
 - IF THE CHANGE OF GRADE BETWEEN ADJACENT SURFACES IS GREATER THAN OR EQUAL TO 11%, A LEVELING STRIP, 2 FEET IN LENGTH, SHALL BE PROVIDED TO TRANSITION THE ADJACENT SURFACES.
 - ADA RAMP SHALL BE CONSTRUCTED WITH 5' CLASS "A" CONCRETE WITH 2" MINIMUM GRAVEL, CRUSHED ROCK OR FLEXIBLE BASE MATERIAL. REINFORCING STEEL SHALL BE #3 BARS AT 18" O.C.E.W. OR 6"x6" W2.9 x W2.9 WIRE MESH.
 - THE EXTENTS OF ADA COMPLIANCE IN ALTERATIONS SHALL BE WITHIN THE LIMITS, BOUNDARIES OR SCOPE OF A PLANNED PROJECT AND AS DETERMINED BY THE CITY BUILDING OFFICIAL.

DETECTABLE WARNING NOTES

- CURB RAMPS OR LANDINGS ADJUTING THE CROSSWALK MUST HAVE A DETECTABLE WARNING SURFACE THAT CONSISTS OF BASED TRUNCATED DOMES COMPLYING WITH SECTION 905 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH ADJACENT SURFACES, INCLUDING SIDE FLARES. TURNISH DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
- DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
- ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
- DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
- DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS AT THE BACK OF CURB. ALIGN THE ROWS OF DOMES TO BE PERPENDICULAR TO THE GRADE BREAK BETWEEN THE RAMP RUN AND THE STREET. DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADII.
- DETECTABLE WARNING MATERIALS MUST MEET TxDOT DEPARTMENTAL MATERIALS SPECIFICATION DMS 4350 AND BE LISTED ON THE MATERIAL PRODUCER LIST. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- DETECTABLE WARNING PAVERS SHALL NOT BE PERMITTED WITHOUT THE APPROVAL BY THE PUBLIC WORKS DEPARTMENT.



NOTES:

- WHERE GUTTER DOES NOT EXIST DRIVEWAY APRON SHALL EXTEND TO EDGE OF ASPHALT AND SHALL HAVE A MINIMUM 6" WIDE 1" DEEP GRADE BEAM MONOLITHIC AND REINFORCED SIMILAR TO APRON.
- PLACEMENT OF SIDEWALK SHOWN IS TYPICAL; HOWEVER, ALTERNATIVE SIDEWALK PLACEMENT COMMON TO DRIVEWAY APRON WILL BE CONSIDERED PROVIDED CROSS SLOPE OF SIDEWALK IS NO GREATER THAN 2%.
- CURB CUT LENGTH NO GREATER THAN AS REQUIRED TO MATCH SLOPE OF ADJACENT SIDEWALK.
- DUMMY JOINTS TO BE PROVIDED AT MINIMUM 4-FT. INTERVALS PERPENDICULAR TO THE CURB LINE WITHIN THE SIDEWALK AREA AND PARALLEL TO THE SIDEWALK AREA.
- PROVIDE A MINIMUM 7" HIGH POINT. HIGH POINT HEIGHT SHALL BE MEASURED FROM THE GUTTER FLOW LINE TO THE DRIVEWAY APRON. NOTE HIGH POINT MAY OCCUR OUTSIDE OF ROW.
- DRIVEWAY THROAT TRANSITION MAY OCCUR OUTSIDE OF ROW.
- PROVIDE EXPANSION JOINTS AT ALL SIDEWALK AND DRIVEWAY THROAT JOINTS. EXPANSION JOINTS SHALL BE PLACED USING 1/2" ASPHALTIC MATERIAL WITH 1/2" DOWELS 16" O.C.
- THE TANGENT POINT OF THE DRIVEWAY CURB RETURN AT THE PUBLIC ROADWAY LINE OR FLARE SHALL BE A MINIMUM DISTANCE OF 1' OFF THE PROPERTY PROJECTED PERPENDICULAR TO THE STREET CENTERLINE, EXCEPT SINGLE FAMILY OR ZERO LOT LINE LOTS. ON SINGLE FAMILY ZERO LOT LINE LOTS WHERE THE DRIVE IS ON THE ZERO LOT LINE, THE TANGENT POINT OR FLARE SHALL BE NO GREATER THAN 3' BEYOND THE ADJOINING PROPERTY LINE PROJECTED PERPENDICULAR TO THE STREET CENTERLINE.

DATE APPROVED: 04/2016	DWG. NO: ST-014.2	SCALE: N.T.S.	City of New Braunfels	ENGINEERING DEPARTMENT
DRAWN BY: RAS	SHEET: 2 OF 2			
FILENAME: DRIVEWAY (RESIDENTIAL - ONE OR TWO FAMILY)				

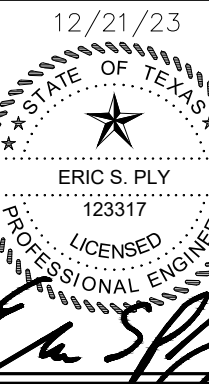
STREET DETAILS (2 OF 4)

REVISION	DESCRIPTION	DATE
NO.		

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C4.18

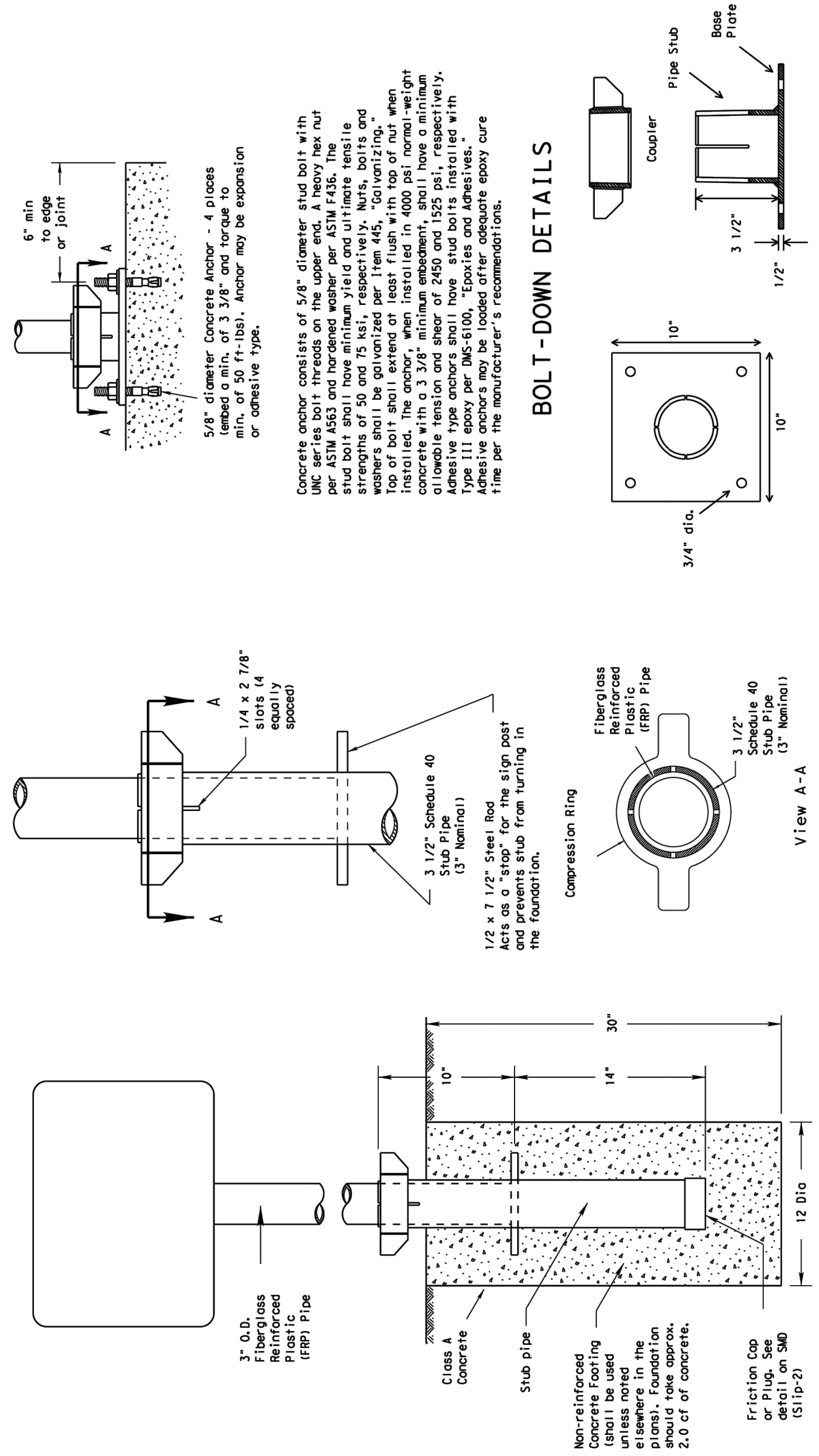
290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



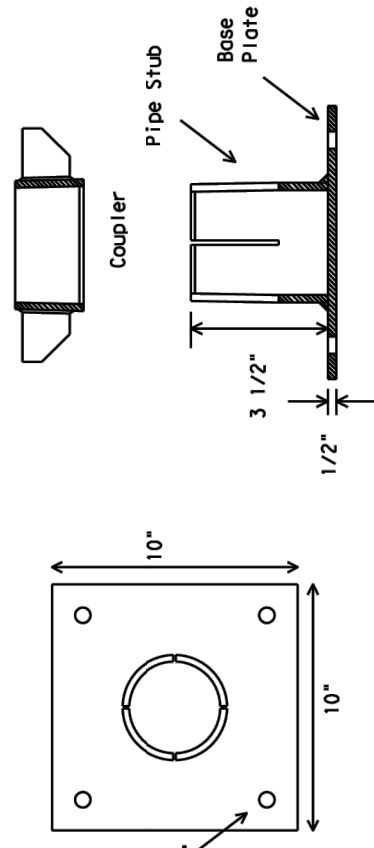
VOGES SUBDIVISION
UNIT 3

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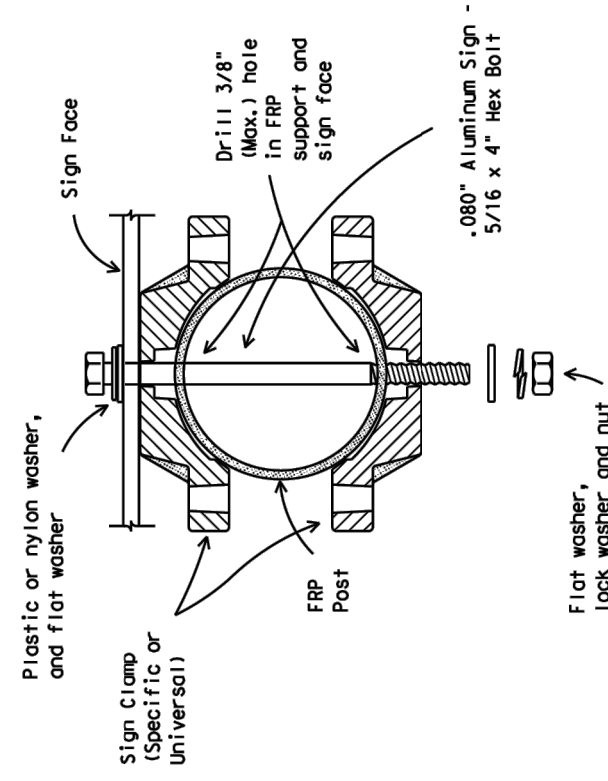
Universal Anchor System with Fiberglass Reinforced Plastic (FRP) Post



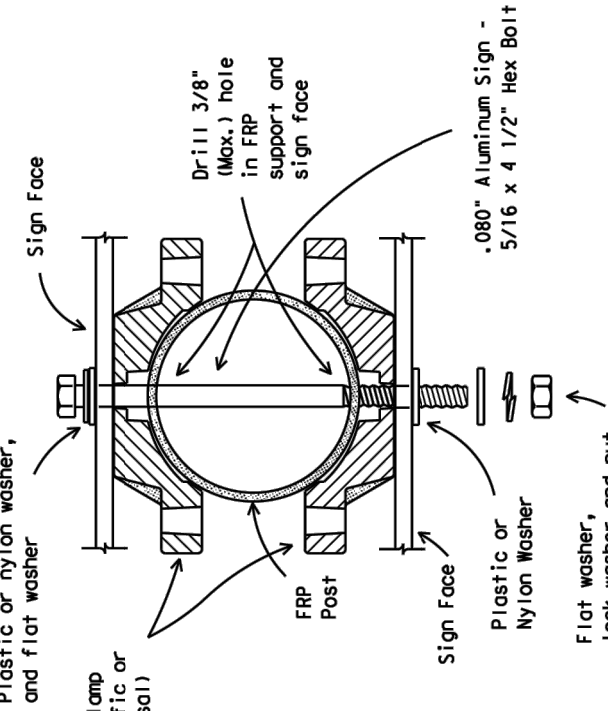
BOLT-DOWN DETAILS



Typical Sign Mounting Detail for FRP Support with Single Sign



Typical Sign Mounting Detail for FRP Support with Back-to-Back Signs



GENERAL NOTES:

1. FRP sign supports for a single type sign support may be used for signs up to and including 16 square feet. Dual post installation may be used for signs up to and including 32 square feet.
2. All nuts, bolts and washers shall be galvanized per item 445, "Galvanizing."
3. See the Traffic Operations Division website for detailed drawings of sign clamps. The website address is: <http://www.dot.ny.gov/multimedia/traffic.htm>

FRP POST REQUIREMENTS

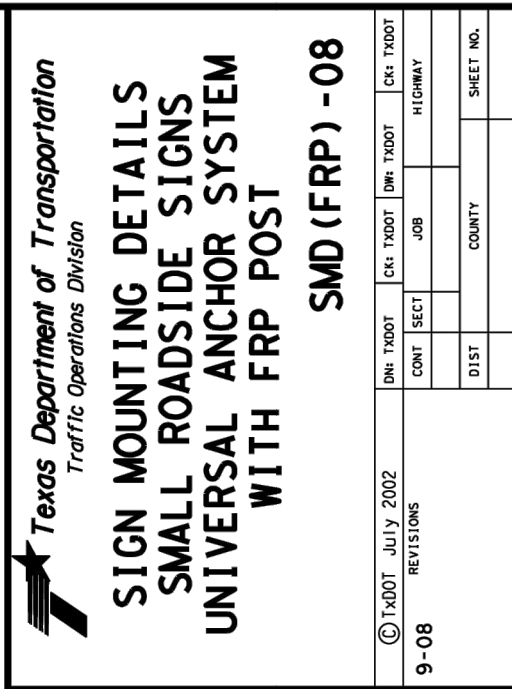
1. Materials shall conform to the requirements of Departmental Material Specification DMS-4410 and will be furnished in a yellow or gray color as specified elsewhere in the plans.
2. Thickness of FRP sign support is $0.125" \pm 0.031"$ - 0.0".
3. FRP sign supports are prequalified by the Traffic Operations Division. Prequalification procedures are obtained by writing:

UNIVERSAL ANCHOR SYSTEM INSTALLATION PROCEDURES

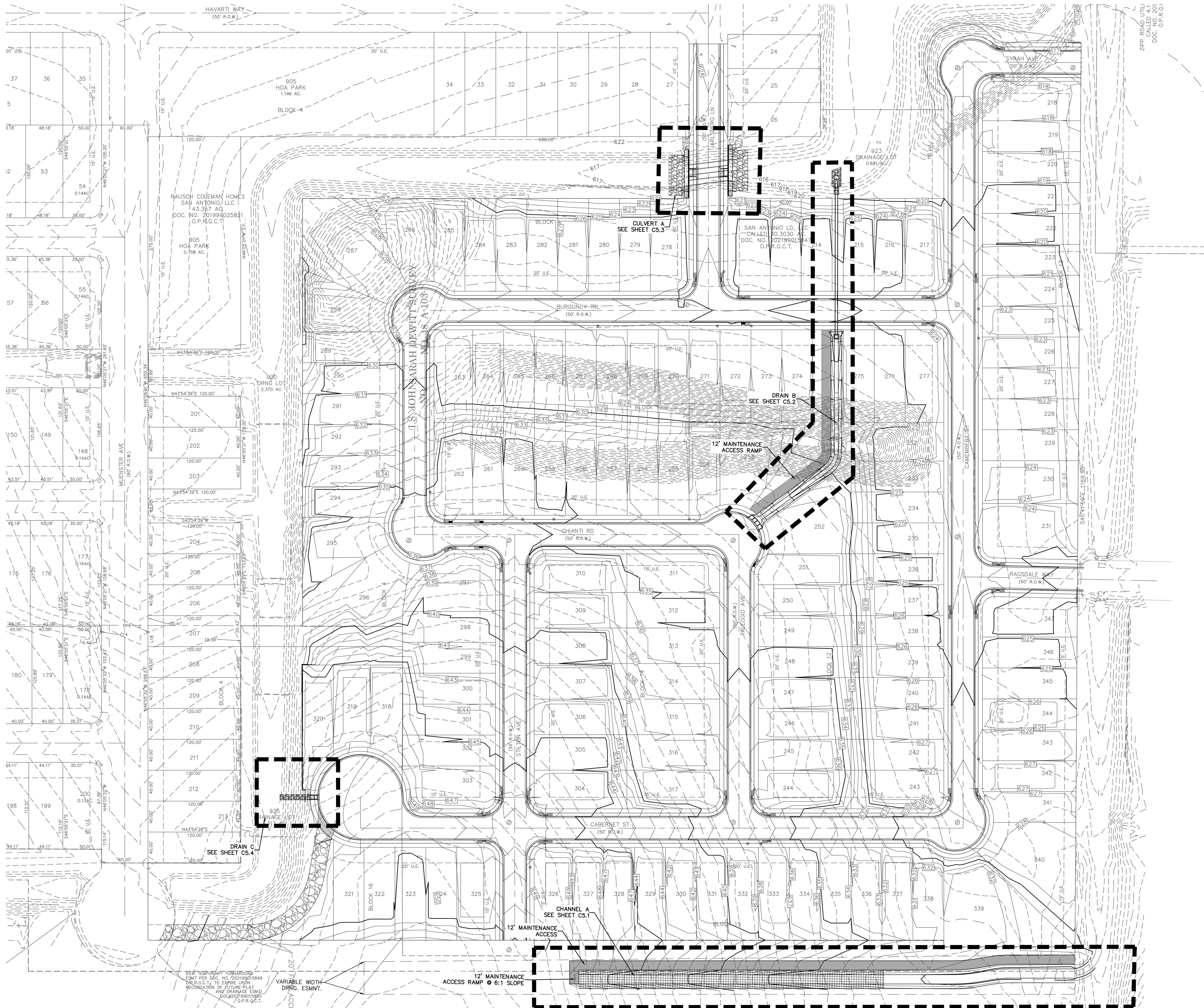
1. Dig foundation hole. Where solid rock is encountered at ground level, the foundation shall be a minimum depth of 18". When solid rock is encountered below ground level, the foundation shall be a minimum depth of 30". If solid rock is encountered, the socket/stub may be reduced in length as required to a minimum of 18".
2. Prepare the hole by cleaning the bottom of the hole with a shovel. The bottom of the hole and the clearance requirements given on this SIGN must be followed. The inner surface of the socket/stub must remain free of concrete or other debris.
3. Place a minimum of 2" (one permit) batch of concrete less than 2 cubic yards to be mixed with a portable, water or liquid concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be used.
4. Place the concrete into the hole. The concrete must be placed in a minimum of 3 feet. Insert base post in foundation hole to depths shown and fill hole with concrete. Cure base post from bottom and ensure a minimum of 18" embedment in concrete.
5. Place the base post with the coupler using a torqued level and let concrete set a minimum of 4 days, unless otherwise directed by Engineer.
6. Attach sign to the base post.
7. Insert sign post into base post. Lower until the post comes to rest on the concrete.
8. Use hammer to ensure the coupler is firmly seated. Top of coupler should be level with top of base post.
9. Level with top of base post in no wet trenches.
10. Turn sign light to ensure there is no wet trench. If loose, increase the tightening of the sign light.

BOLT DOWN SIGN SUPPORT

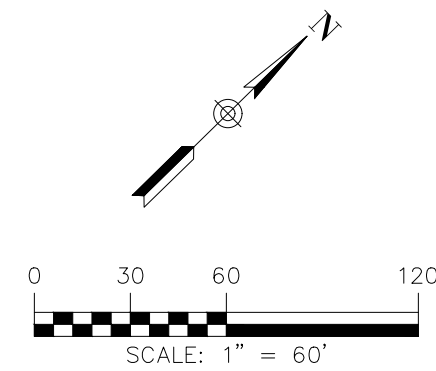
1. Position base plate with coupler on existing concrete.
2. Drill holes into concrete and insert the 3/8" diameter bolts with wedge anchors, and tighten nuts.
3. Attach sign to FRP post.
4. Insert bottom of sign post into pipe stub.
5. Use hammer to ensure the coupler is firmly seated. Top of coupler should be flush with top of sign post.
6. Check sign to ensure there is no twist. If loose, increase the tightening of coupler.



DATE:
FILE:



- LEGEND**
- 700 EXISTING CONTOURS
 - 700 PROPOSED CONTOURS
 - B.L. BUILDING SETBACK LINE
 - U.E. UTILITY EASEMENT
 - D.E. DRAINAGE EASEMENT
 - S.B.C. SINGLE BOX CULVERT
 - PROPOSED STORM DRAIN LINE
 - UTILITY CROSSING



DRAINAGE FEATURES, DETENTION BASIN MAINTENANCE AND EQUIPMENT ACCESS REQUIREMENTS:

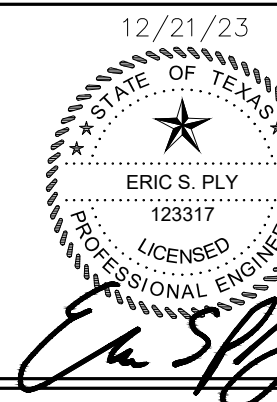
SILT SHALL BE REMOVED AND THE BASIN RETURNED TO ORIGINAL LINES AND GRADES WHEN STANDING WATER CONDITIONS OCCUR OR THE BASIN STORAGE VOLUME IS REDUCED BY MORE THAN 10%.

- A. TO LIMIT EROSION, NO UNVEGETATED AREA SHALL EXCEED 10 SQ. FT. IN EXTENT.
- B. ACCUMULATED PAPER, TRASH, AND DEBRIS SHALL BE REMOVED EVERY 6 MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.
- C. BASINS SHALL BE MOWED ANNUALLY BETWEEN THE MONTHS OF JUNE AND SEPTEMBER.
- D. CORRECTIVE MAINTENANCE IS REQUIRED ANY TIME A BASIN DOES NOT DRAIN COMPLETELY WITHIN 60 HOURS OR CESSATION OF INFLOW (IE: NO STANDING WATER IS ALLOWED).
- E. STRUCTURAL INTEGRITY OF BASINS SHALL BE MAINTAINED AT ALL TIMES.
- F. MAINTENANCE VEHICLE FOR POND ACCESS SHOULD BE A BOBCAT S175 SKID STEER LOADER OR VEHICLE OF EQUAL TO LESSER SIZE.

REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
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TBPLS FIRM 1053600



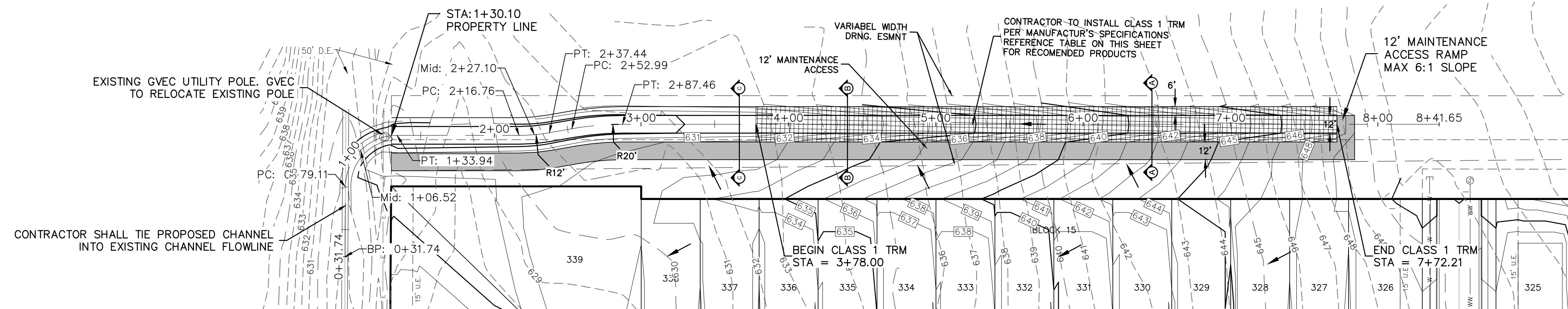
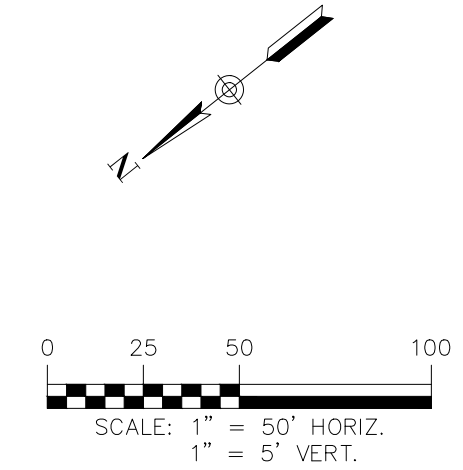
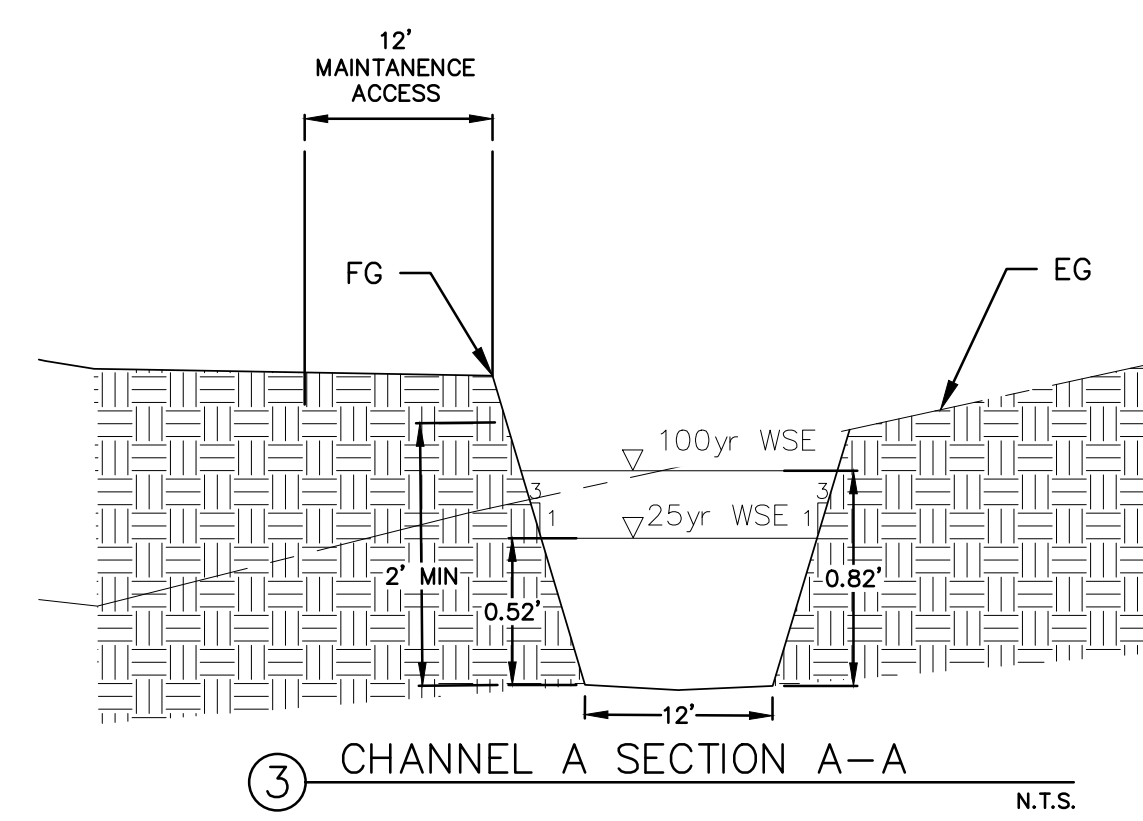
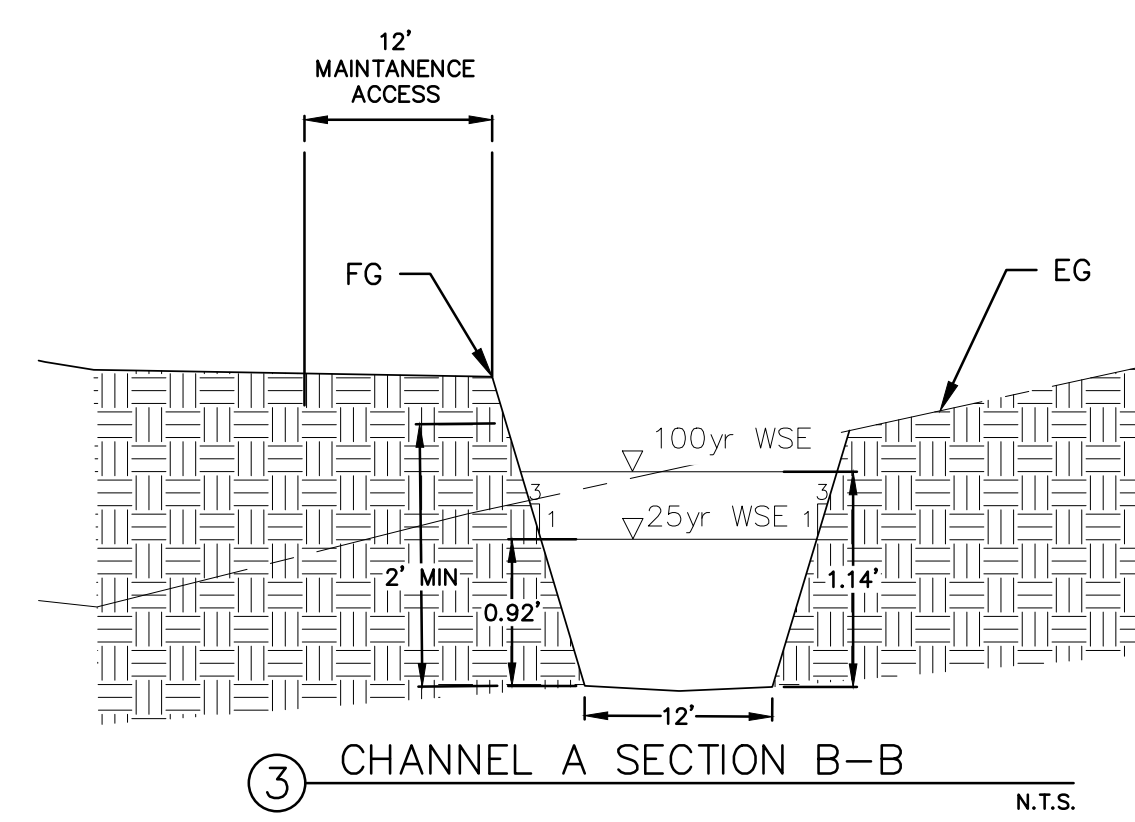
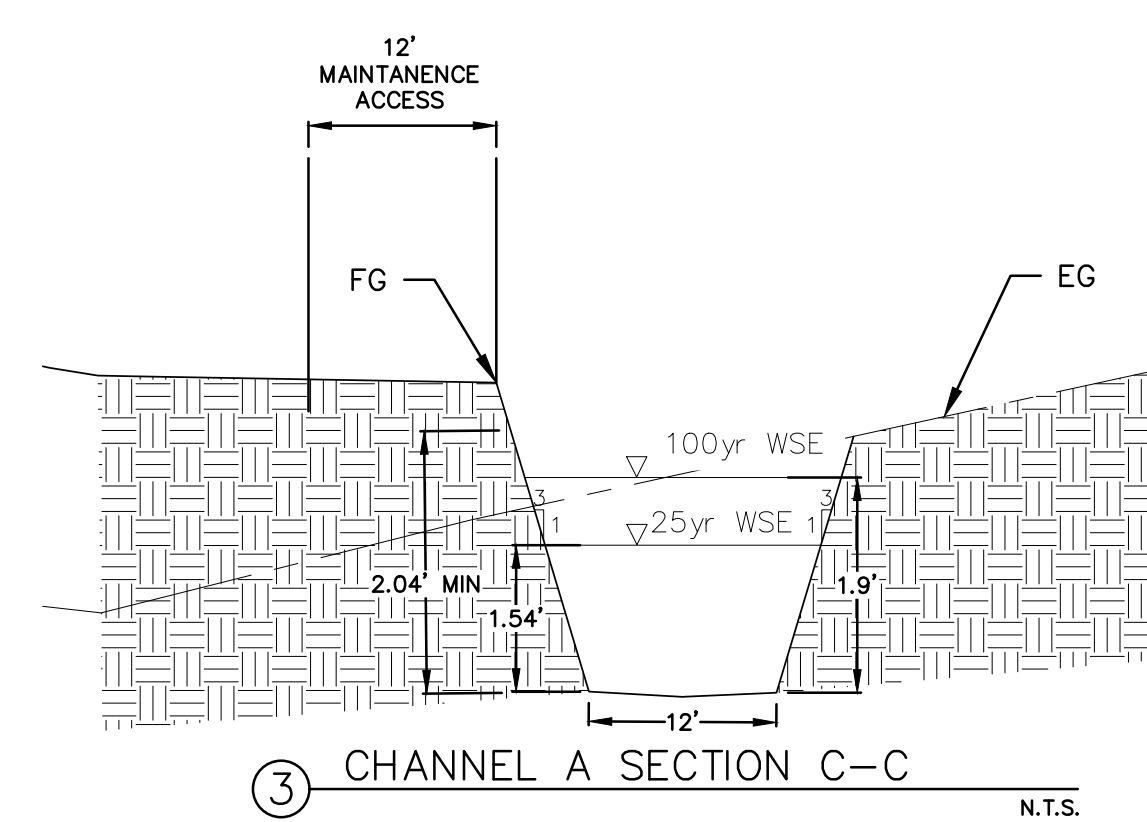
OVERALL STORM

**VOGES SUBDIVISION
UNIT 3**

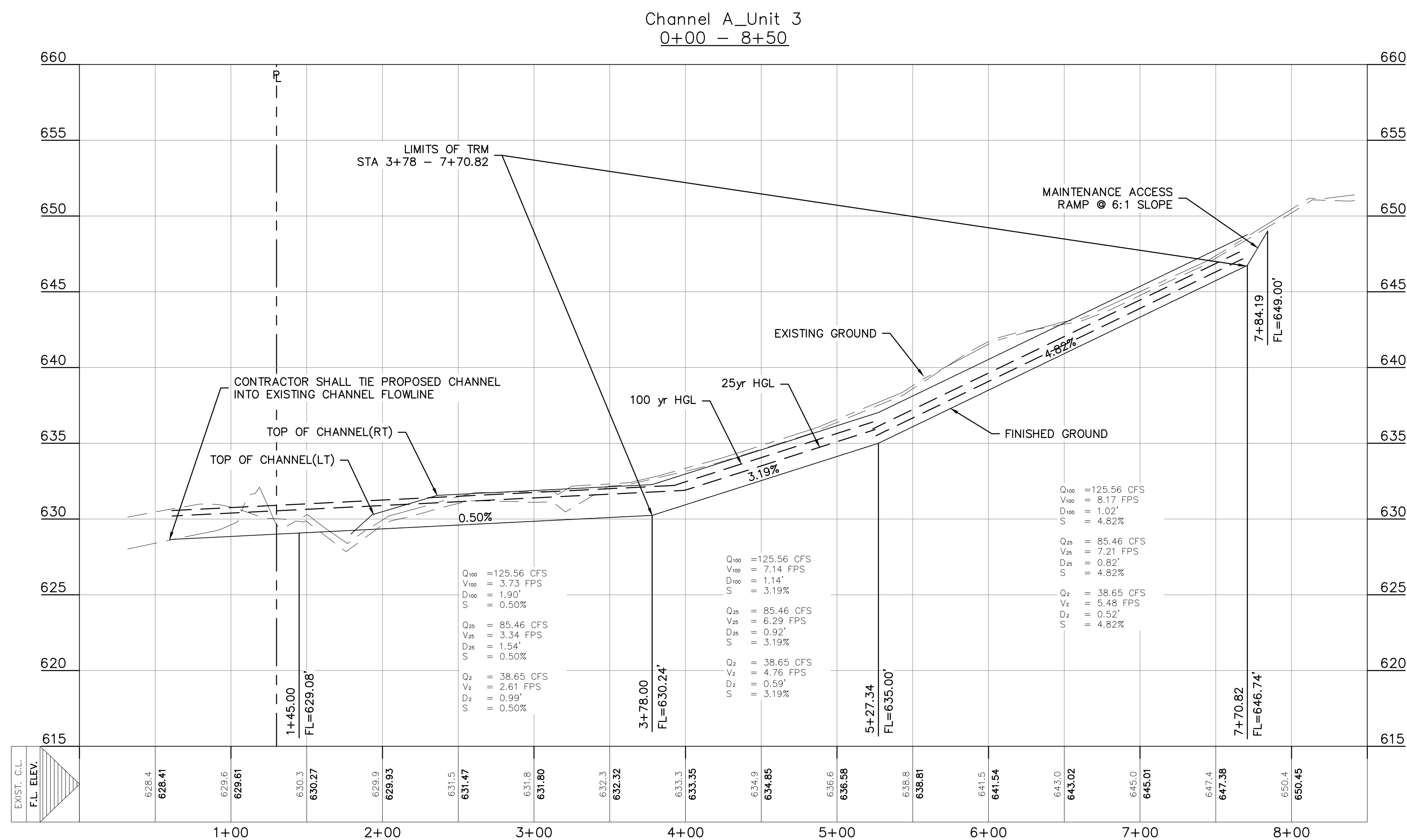
NO.	REVISION DESCRIPTION	REVISION DATE

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

**SHEET
C5.0**



Permanent Turf Reinforcement Mat	Class	Max Shear (vegitated)	Max Velocity	Manning's N (unveg)*
Landlok 435	1	8	12	0.025
Futura 7010 Green Armor	1	8	16	.025 - .045
EroNet P300	1	8	16	.020 - .034
Landlok 450	2	10	18	0.025
VMax P350	2	10	20	.012 - .041
VMax P550	2	12	22	.023 - .029
Futura 7020 Green Armor	3	17	20	.025 - .045
Futura R45 (HP-TRM)	3	20	30	-



DRAINAGE FEATURES AND EQUIPMENT ACCESS REQUIREMENTS:

SILT SHALL BE REMOVED AND THE BASIN RETURNED TO ORIGINAL LINES AND GRADES WHEN STANDING WATER CONDITIONS OCCUR OR THE BASIN STORAGE VOLUME IS REDUCED BY MORE THAN 10%.

- A. TO LIMIT EROSION, NO UNVEGETATED AREA SHALL EXCEED 10 SQ. FT. IN EXTENT.
- B. ACCUMULATED PAPER, TRASH, AND DEBRIS SHALL BE REMOVED EVERY 6 MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.
- C. BASINS SHALL BE MOWED ANNUALLY BETWEEN THE MONTHS OF JUNE AND SEPTEMBER.
- D. CORRECTIVE MAINTENANCE IS REQUIRED ANY TIME A BASIN DOES NOT DRAIN COMPLETELY WITHIN 60 HOURS OR CESSATION OF INFLOW (IE: NO STANDING WATER IS ALLOWED).
- E. STRUCTURAL INTEGRITY OF BASINS SHALL BE MAINTAINED AT ALL TIMES.
- F. MAINTENANCE VEHICLE FOR POND ACCESS SHOULD BE A BOBCAT S175 SKID STEER LOADER OR VEHICLE OF EQUAL TO LESSER SIZE.

CHANNEL A P&P

UNIT 3

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



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ENGINEERING & SURVEYING

2/21/23

5

DATE: DECEMBER 2023

DRAWN BY: MP

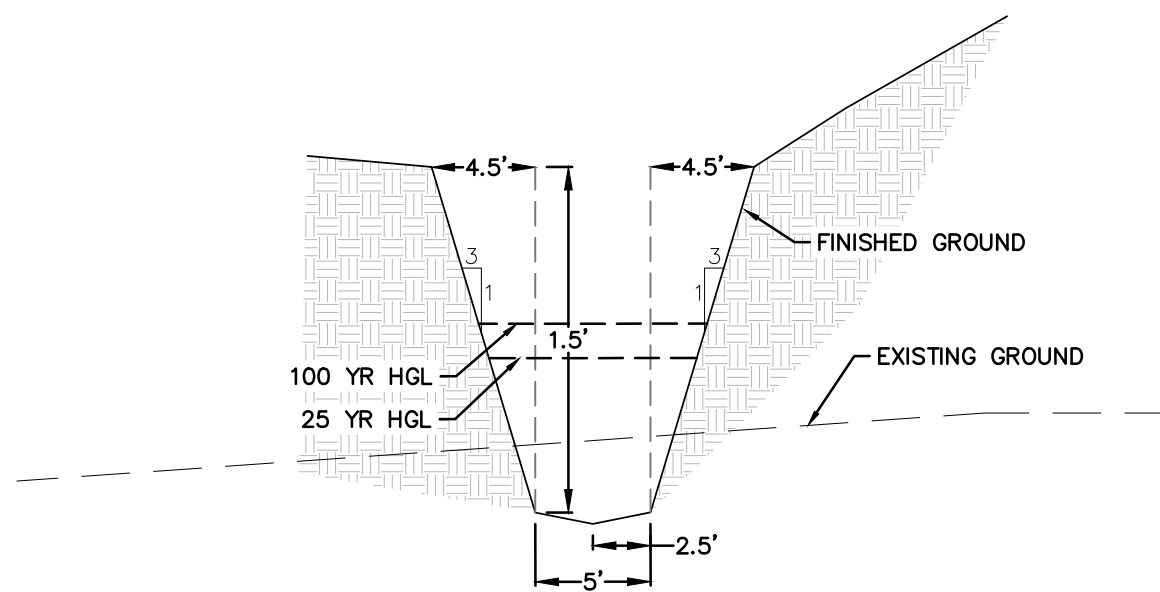
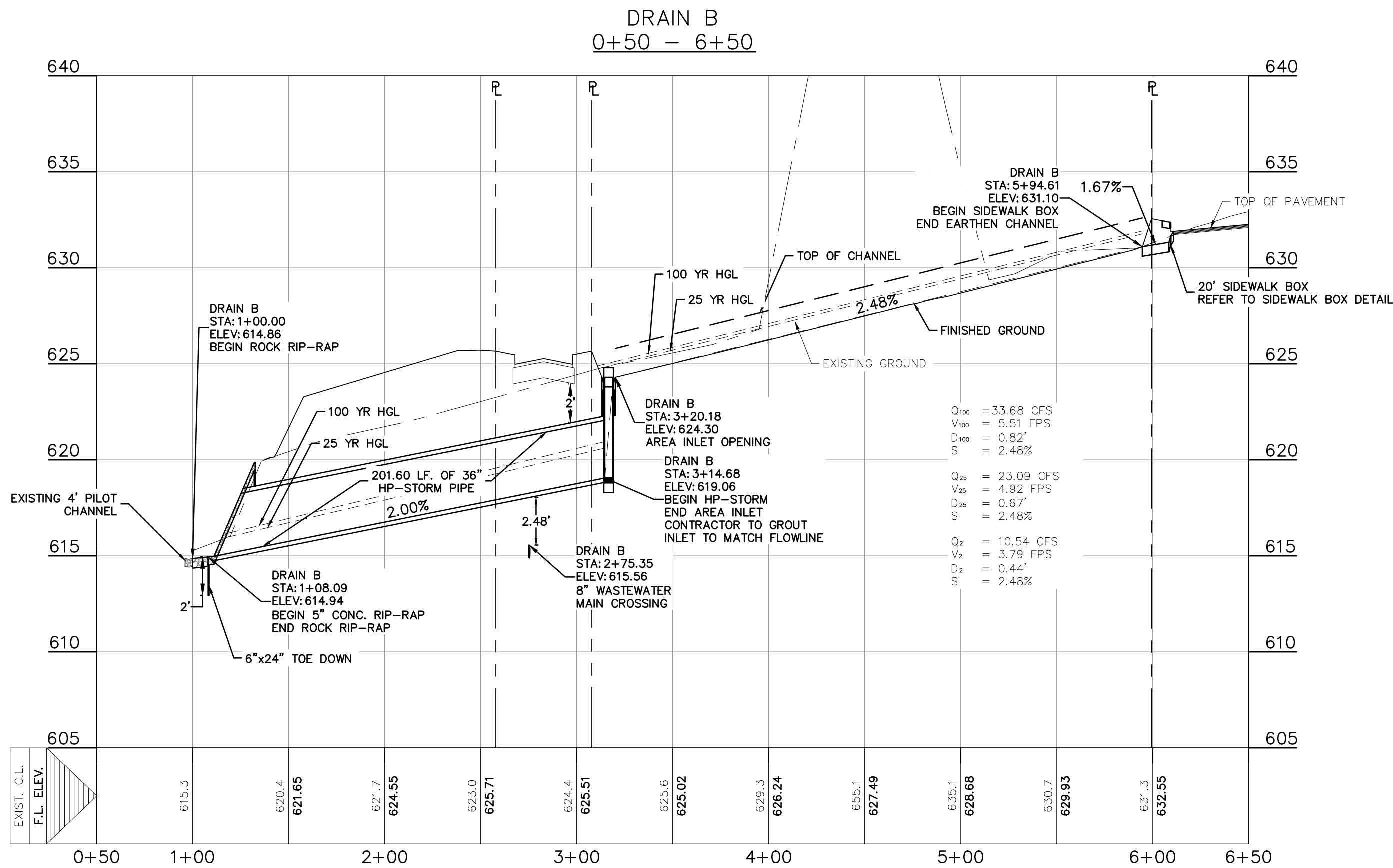
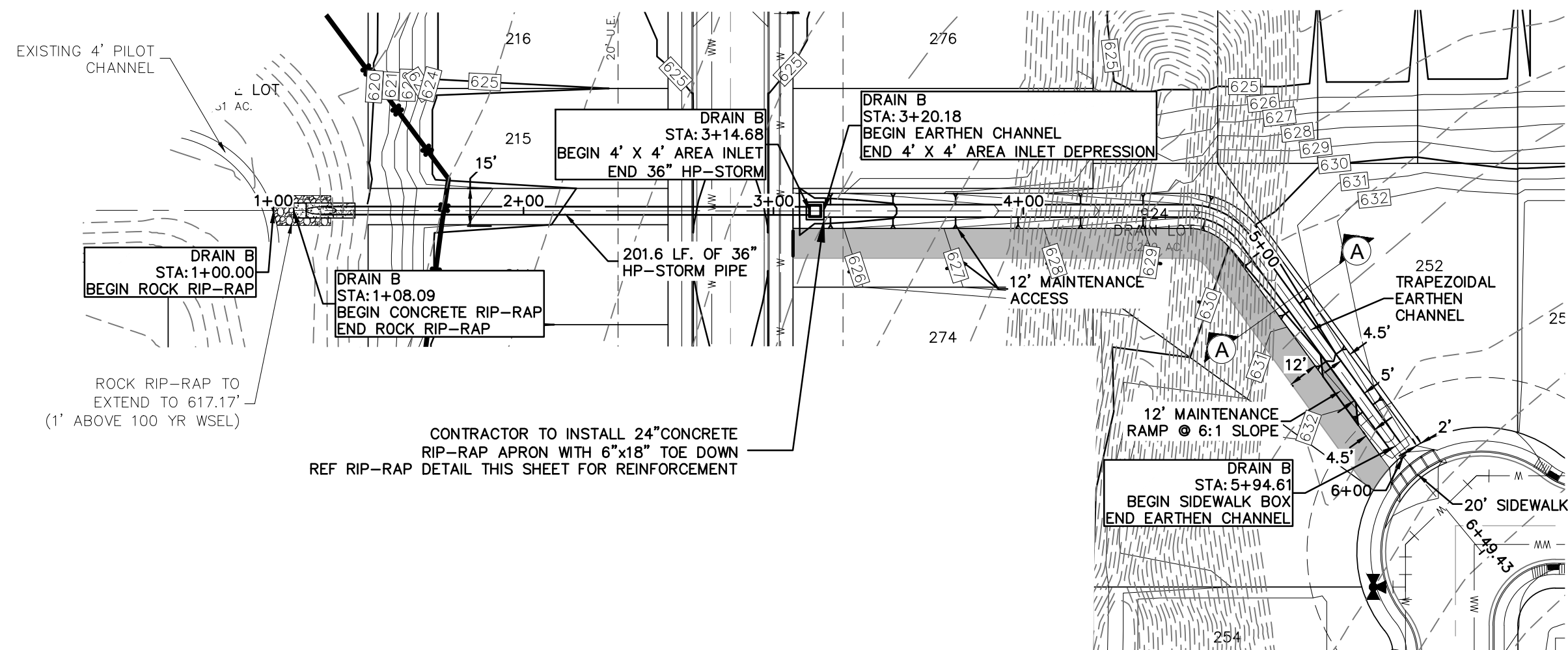
DESIGNED BY: MP

VIEWED BY: ESP

MT PROJECT NO.:
248.014

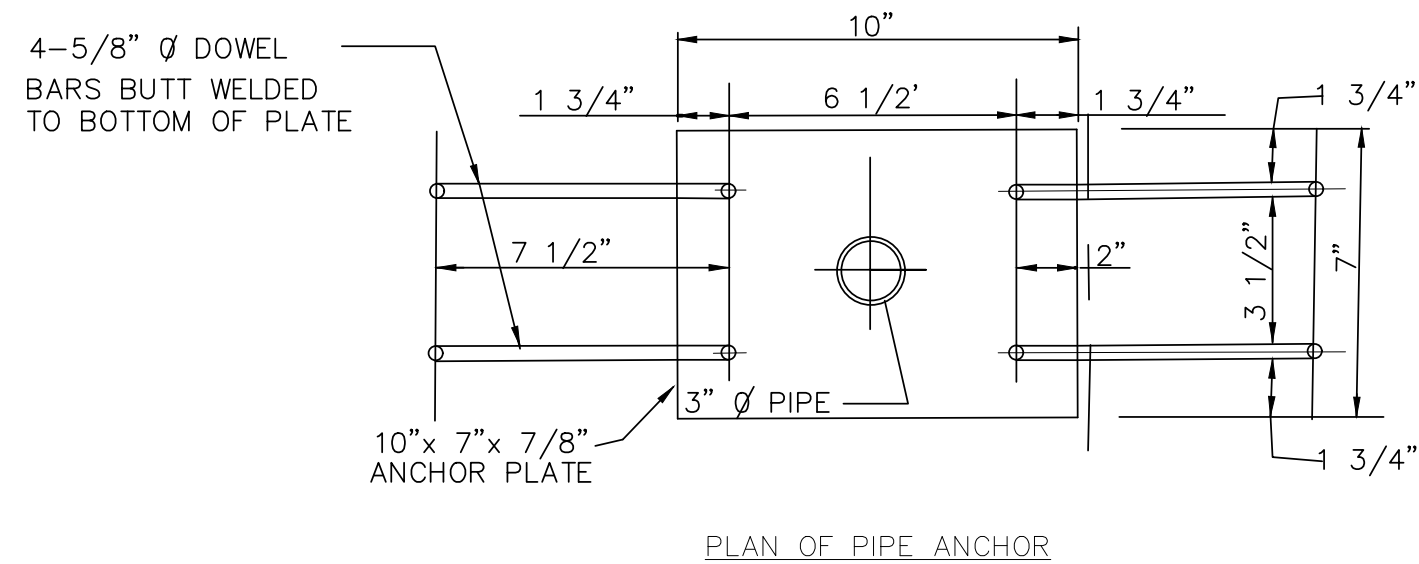
SHEET
C5.1

Drawing Name: M:_projects\248 - voges subdivision\248 - voges\civil\248.014_DRAIN B.dwg User: mdt-p Date: 2023 - 4:49pm

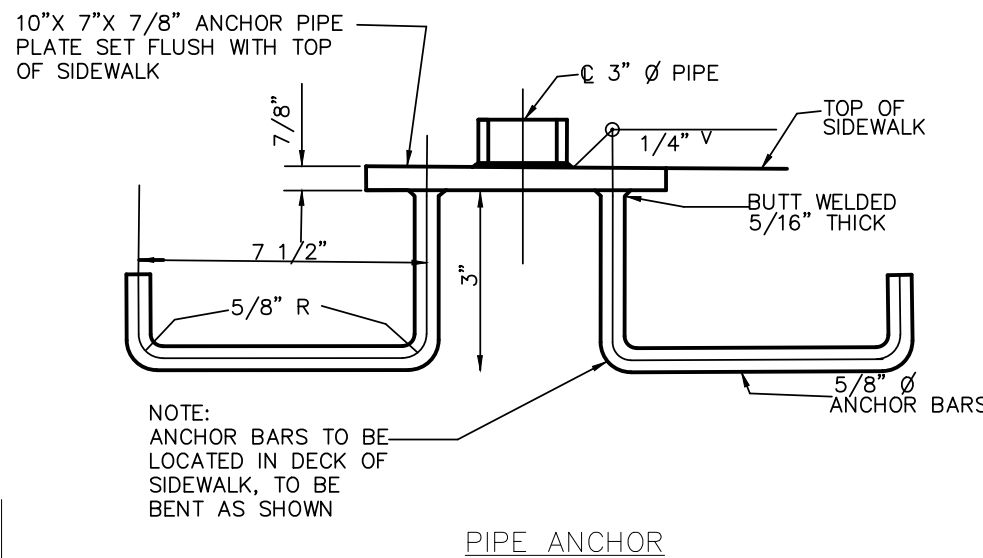


① DRAIN B SECTION A-A

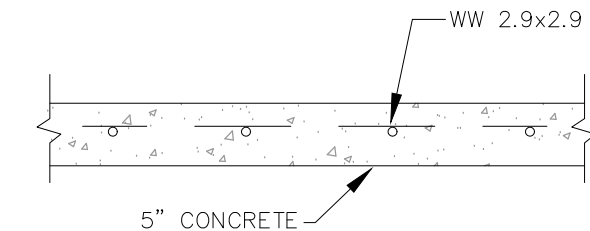
Q_{100}	= 33.68 CFS
V_{100}	= 5.51 FPS
D_{100}	= 0.62'
S	= 2.48%
Q_{25}	= 23.09 CFS
V_{25}	= 4.92 FPS
D_{25}	= 0.67'
S	= 2.48%
Q_2	= 10.54 CFS
V_2	= 3.79 FPS
D_2	= 0.44'
S	= 2.48%



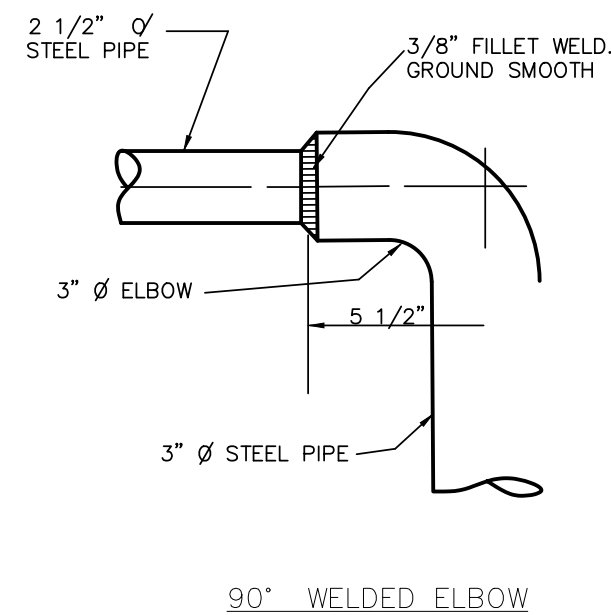
PLAN OF PIPE ANCHOR



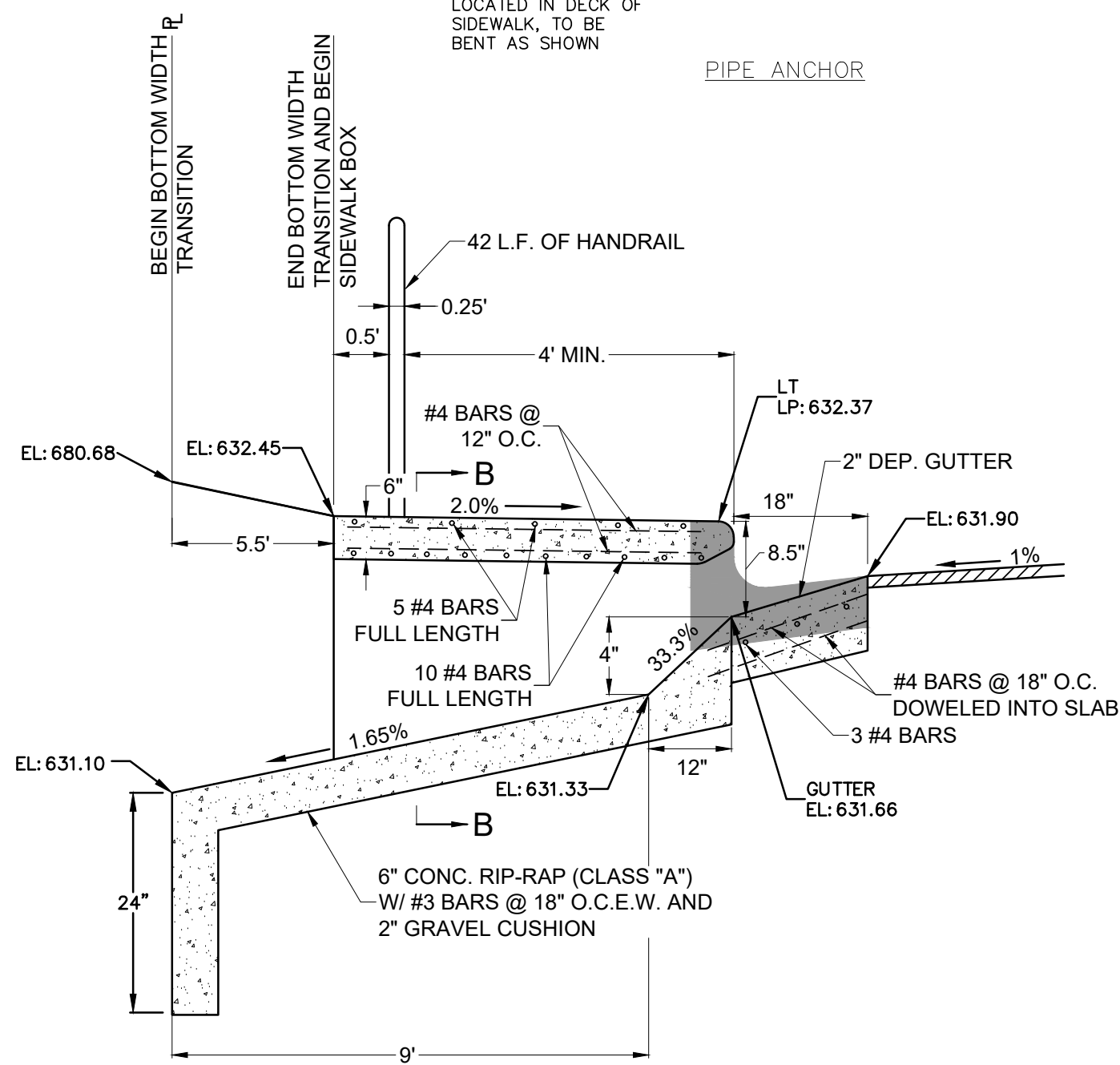
PIPE ANCHOR



① RIP-RAP SECTION

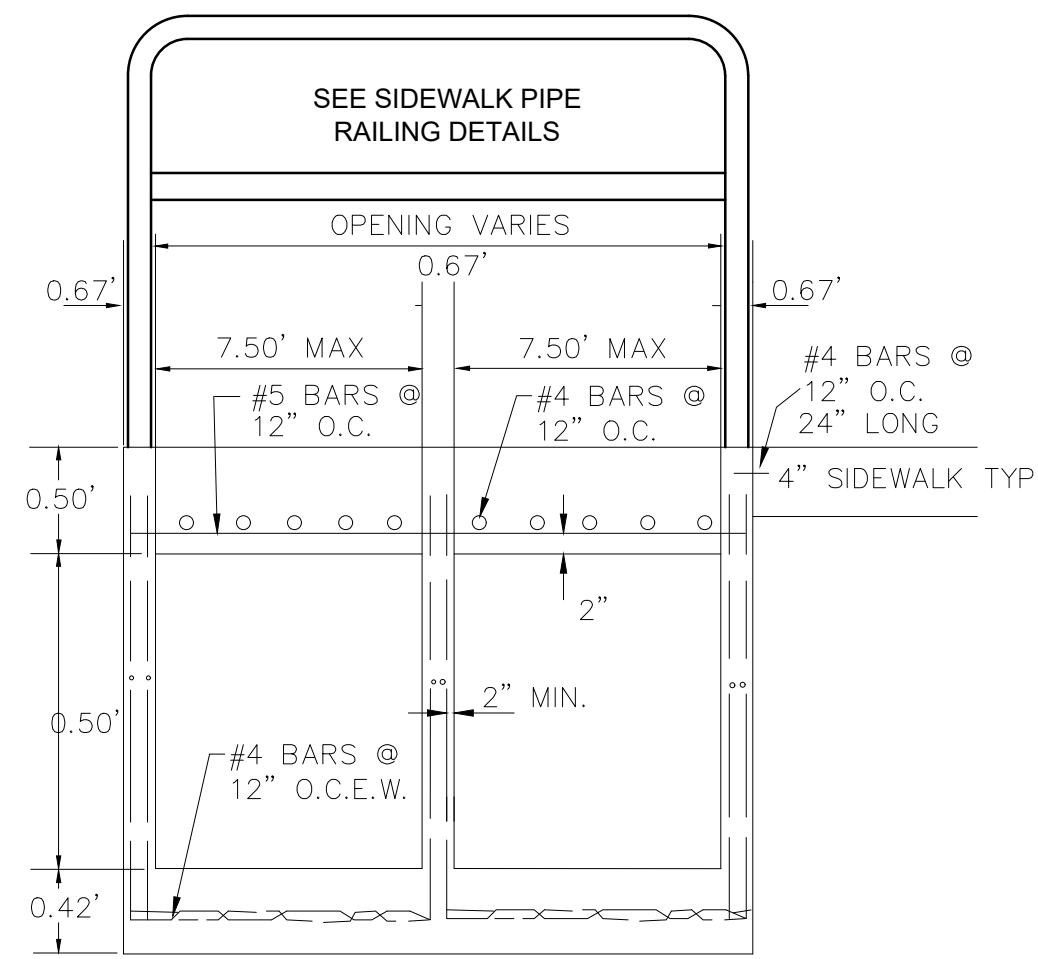


NOTE:
RAILING TO BE PAINTED:
SHOP COAT: "RUST-OLEUM" NO. 678
QUICK DRYING RED PRIMER,
FIRST FIELD COAT: "RUST-OLEUM"
NO. 7773 ZINC CHROMATE PRIMER,
SECONDFIELD COAT: "RUST-OLEUM"
NO. 7715 "ALUMINUM" OR
APPROVED EQUAL.



SECTION "A-A"
N.T.S.

① SIDEWALK BOX SECTION DETAIL

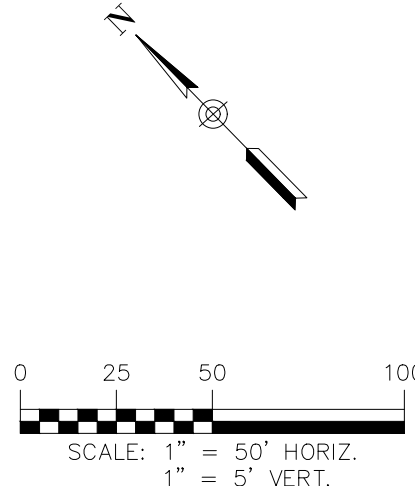


SECTION "B-B"
N.T.S.

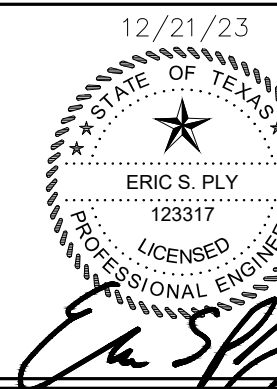
REFER TO THE COVER SHEET
FOR BENCHMARK INFORMATION.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

LEGEND	
---	EXISTING CONTOURS
---	PROPOSED CONTOURS
B.L.	BUILDING SETBACK LINE
U.E.	UTILITY EASEMENT
D.E.	DRAINAGE EASEMENT
S.B.C.	SINGLE BOX CULVERT
---	PROPOSED STORM DRAIN LINE
---	UTILITY CROSSING



290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



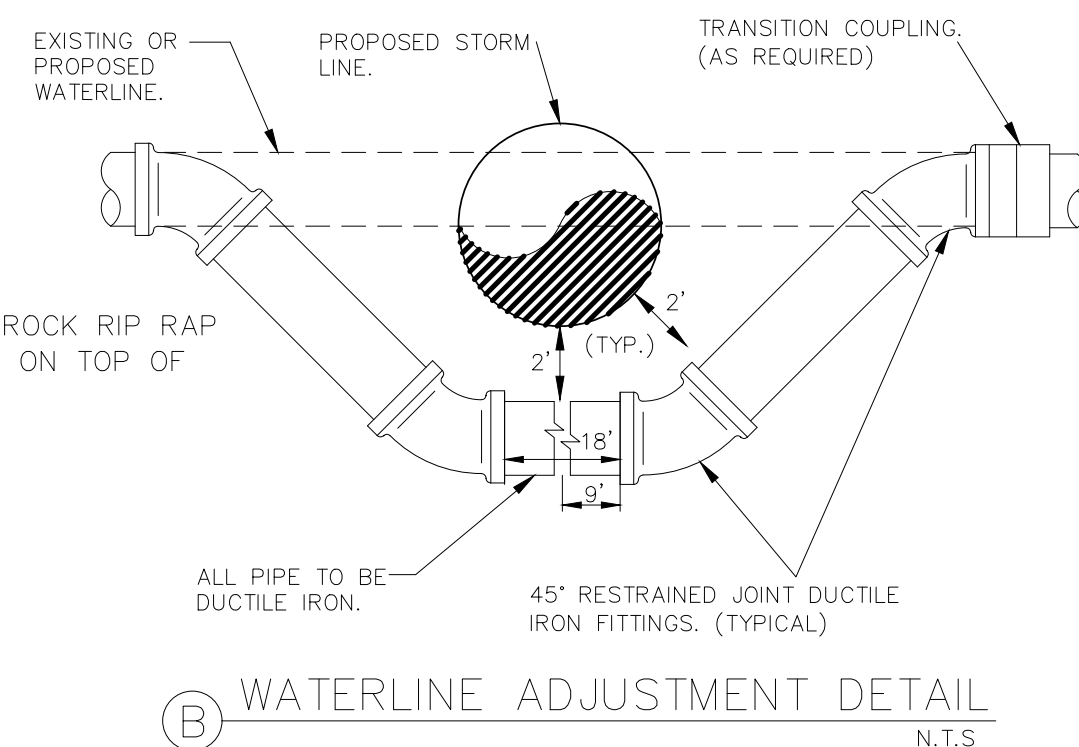
DRAIN B P&P

VOGES SUBDIVISION
UNIT 3

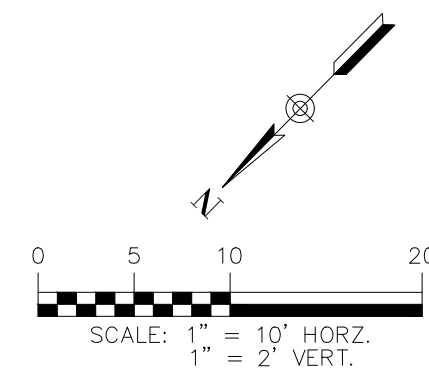
REVISION	DATE	DESCRIPTION
NO.		

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C5.2



- A. TO LIMIT EROSION, NO UNVEGETATED AREA SHALL EXCEED 10 SQ. FT. IN EXTENT.
- B. ACCUMULATED PAPER, TRASH, AND DEBRIS SHALL BE REMOVED EVERY 6 MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.
- C. BASINS SHALL BE MOWED ANNUALLY BETWEEN THE MONTHS OF JUNE AND SEPTEMBER.
- D. CORRECTIVE MAINTENANCE IS REQUIRED ANY TIME A BASIN DOES NOT DRAIN COMPLETELY WITHIN 60 HOURS OR CESSATION OF INFLOW (IE: NO STANDING WATER IS ALLOWED).
- E. STRUCTURAL INTEGRITY OF BASINS SHALL BE MAINTAINED AT ALL TIMES.
- F. MAINTENANCE VEHICLE FOR POND ACCESS SHOULD BE A BOBCAT S175 SKID STEER LOADER OR VEHICLE OF EQUAL TO LESSER SIZE.



SECTION B-B
CULVERT CROSSING DETAIL
N.T.S.

18" TOE-DOWN

TxDOT HEADWALL
SEE DETAIL ON SHEET C5.6

HANDRAIL

2:1

2:1

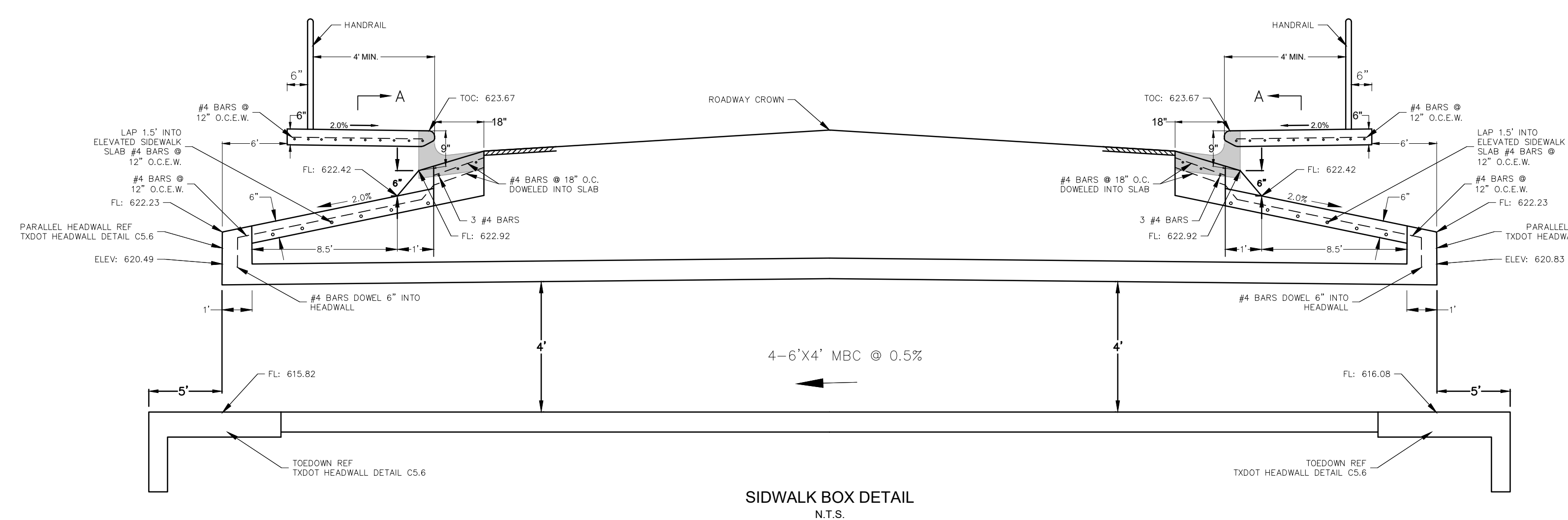
18" TOE-DOWN

±19'

±19'

4'

6'



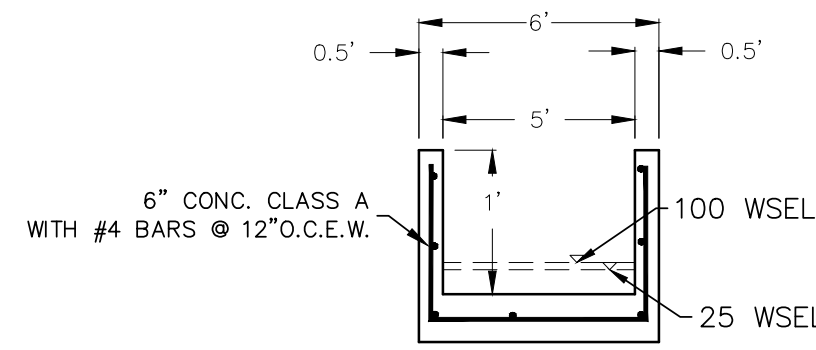
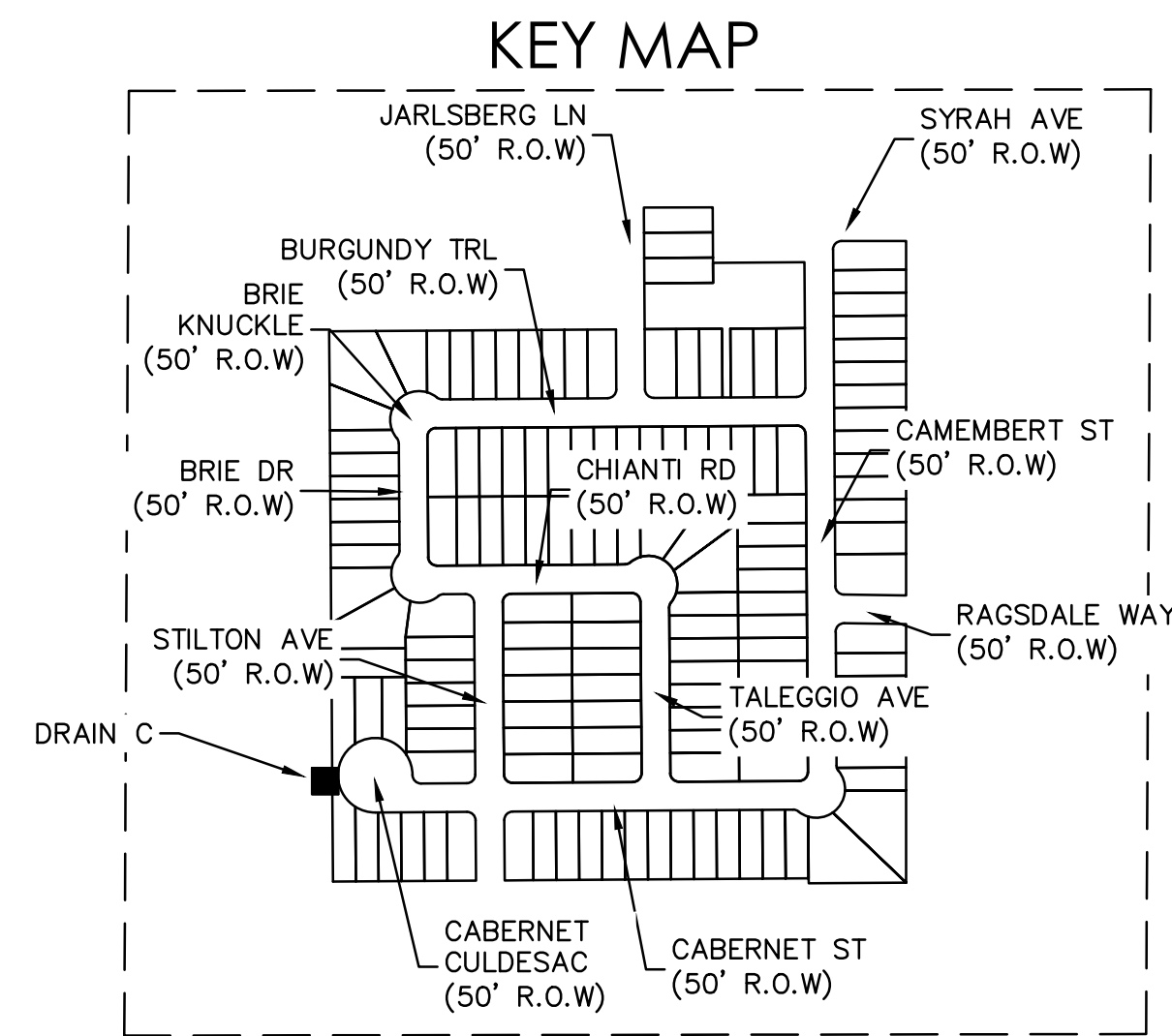
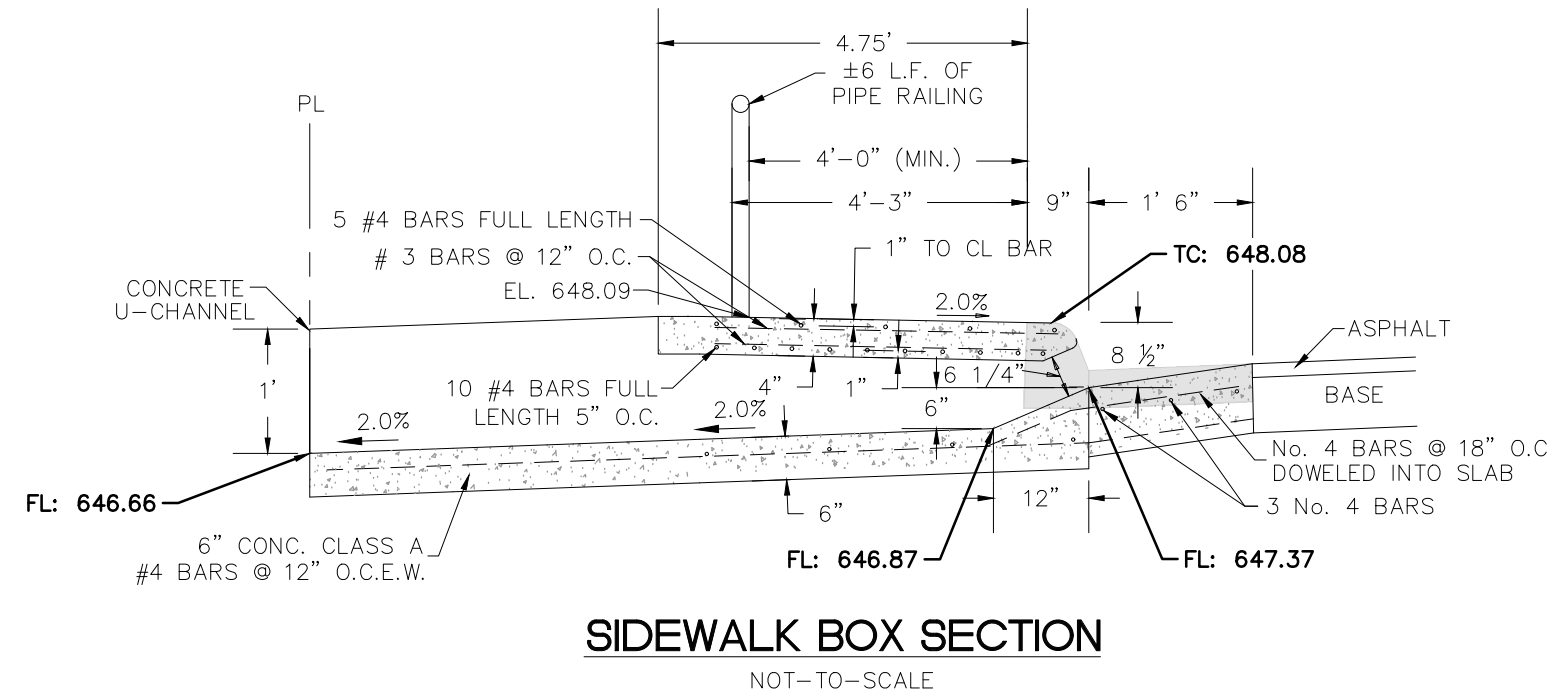
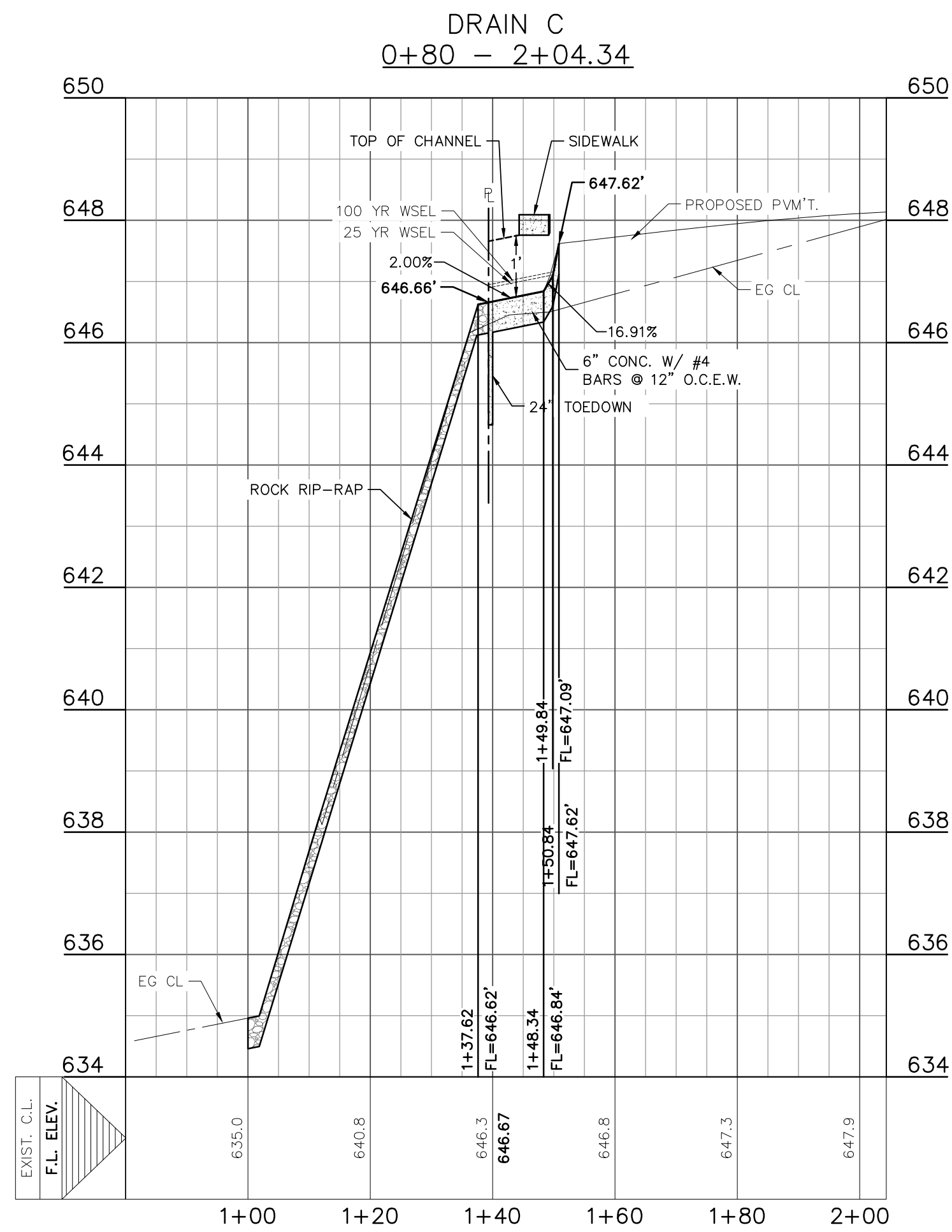
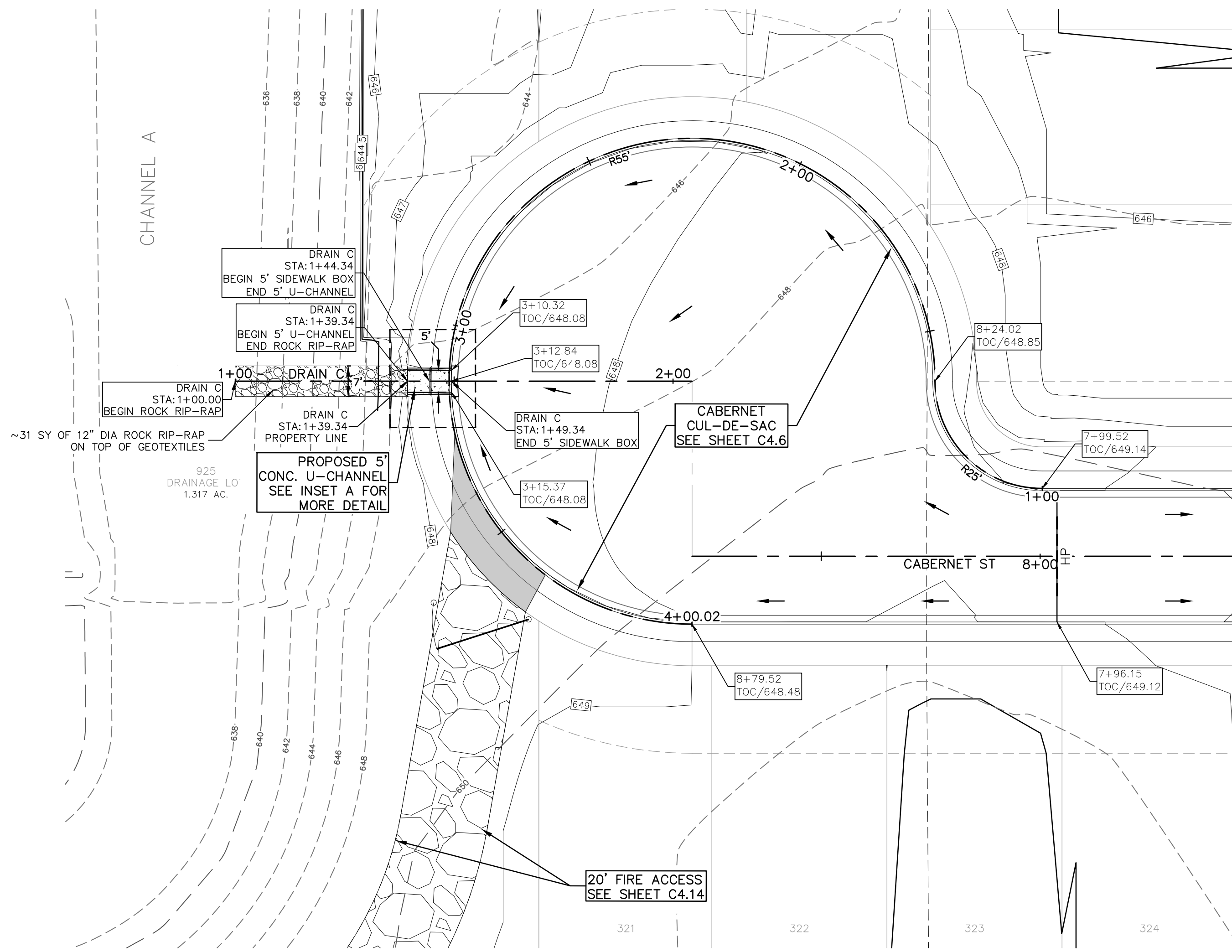
THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MUST BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

VOGES SUBDIVISION
UNIT 3

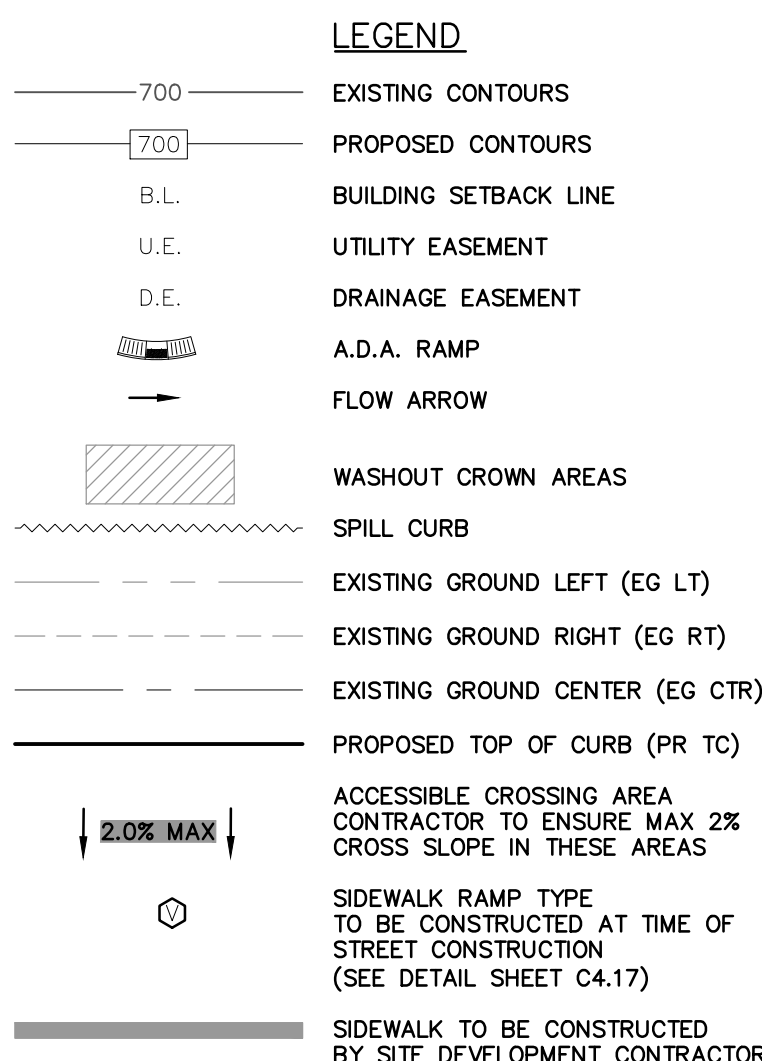
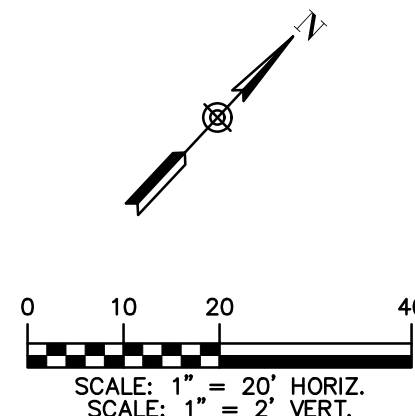
DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP

SHEET
C5.3

Drawing Name: M:_projects\48 - voges subdivision\014 - voges unit 4\CD's\248.014 DRAIN C P&P.dwg User: matt+p Dec 21, 2023 - 4:50pm

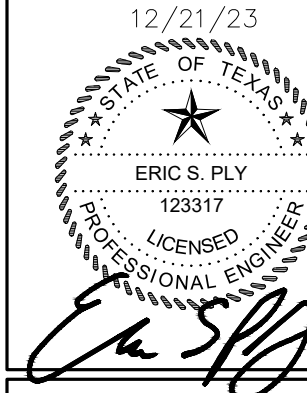


THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.



- NOTES
1. LOCAL STREETS WERE DESIGNED TO POSTED SPEED LIMIT OF 25 MPH.
 2. IN WASHOUT CROWN AREAS, THE CURB ON THE HIGH SIDE OF THE STREET SHOULD BE SPILL CURB AS DESIGNATED ON THE PLANS.
 3. CONTRACTOR TO CONSTRUCT SIDEWALK RAMPS WITH STREETS.
 4. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM STREET STUB OUT ENDS SO THAT NO "PONDING" OF WATER OCCURS.
 5. PER NEW BRAUNFELS ORDINANCE SEC. 114-98(9)(6) ALL DRIVEWAY LOCATED ON A SINGLE FAMILY RESIDENCE ON A LOCAL STREET SHALL HAVE A MINIMUM SPACING OF 20'

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



DRAIN C P&P

VOGES SUBDIVISION
UNIT 3

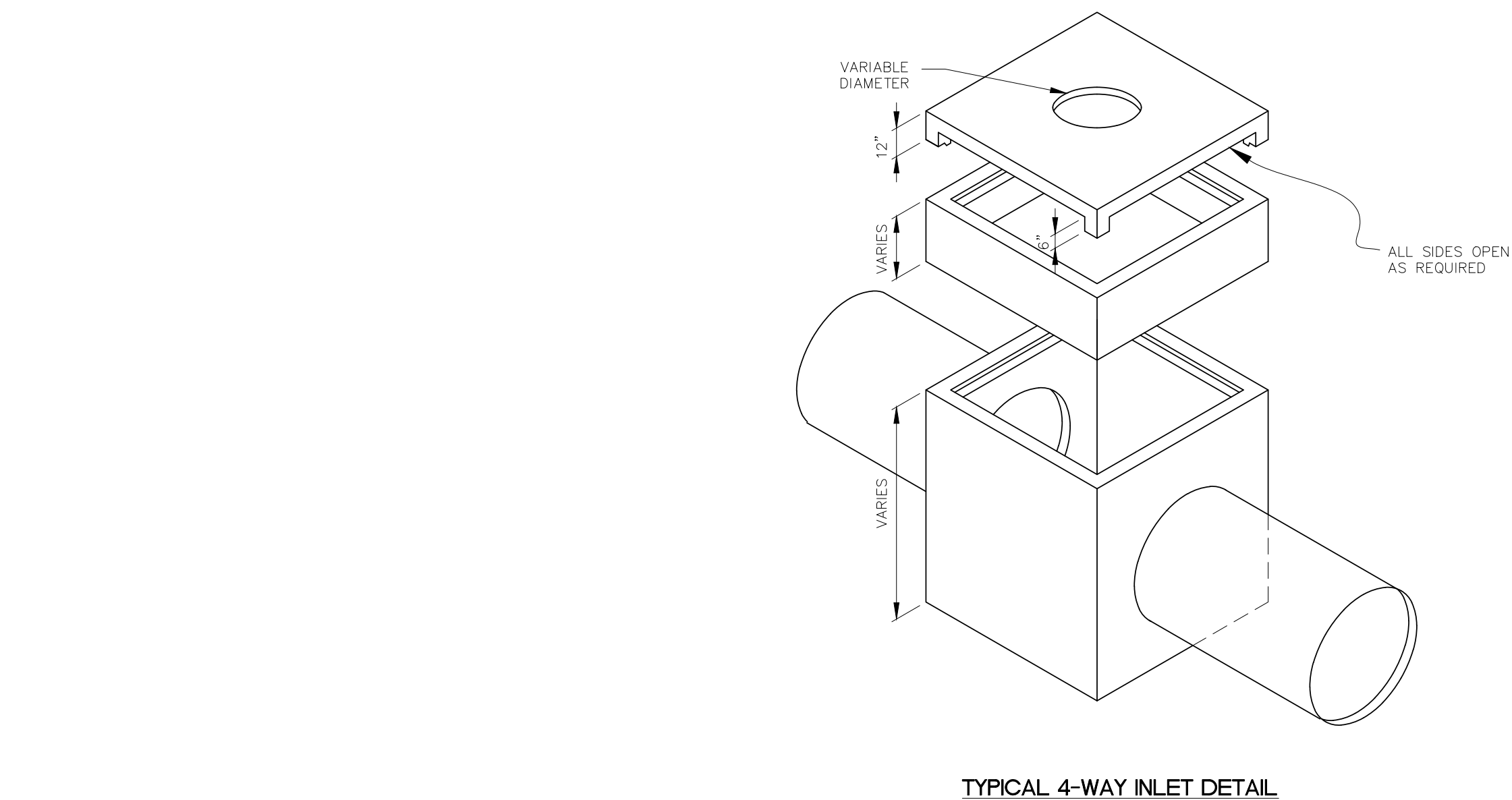
NO.	REVISION	DESCRIPTION	DATE

DATE: DECEMBER 2023
DRAWN BY: MP
DESIGNED BY: MP
REVIEWED BY: ESP

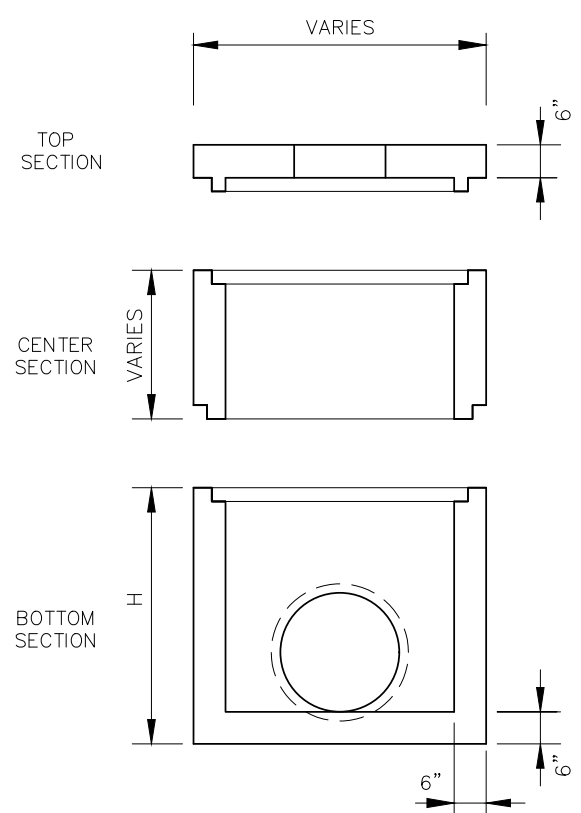
HMT PROJECT NO.: 248.014

SHEET
C5.4

Drawing Name: \\A:\projects\248 - voges unit 4\CD\248.014_STORM DETAILS.dwg User: matt-p Dec 21, 2023 - 4:50pm

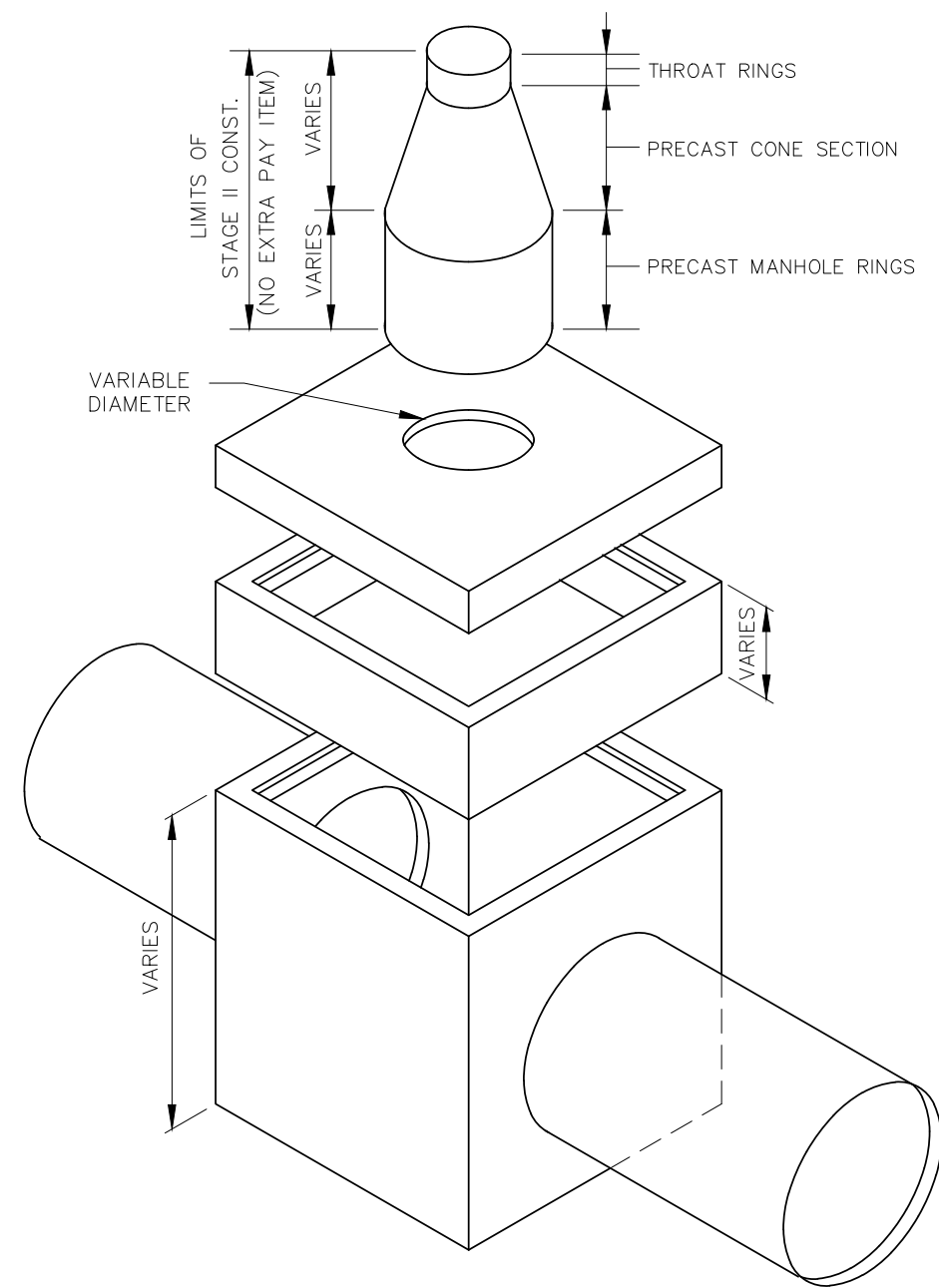


TYPICAL 4-WAY INLET DETAIL

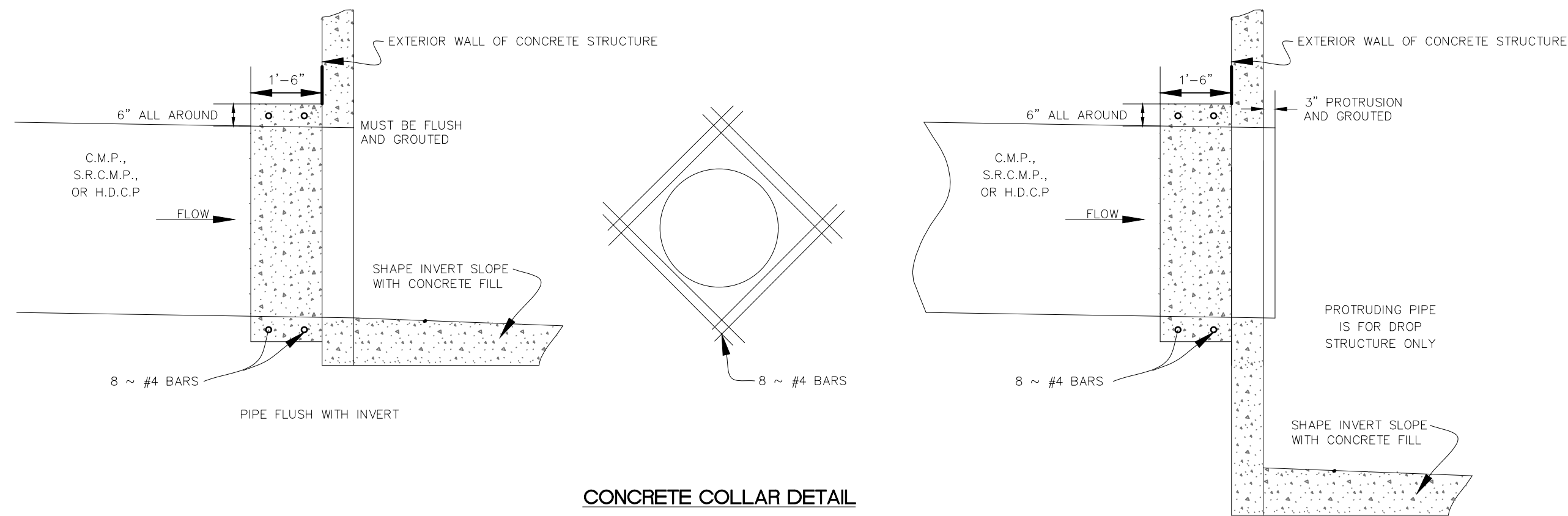


NOTES:

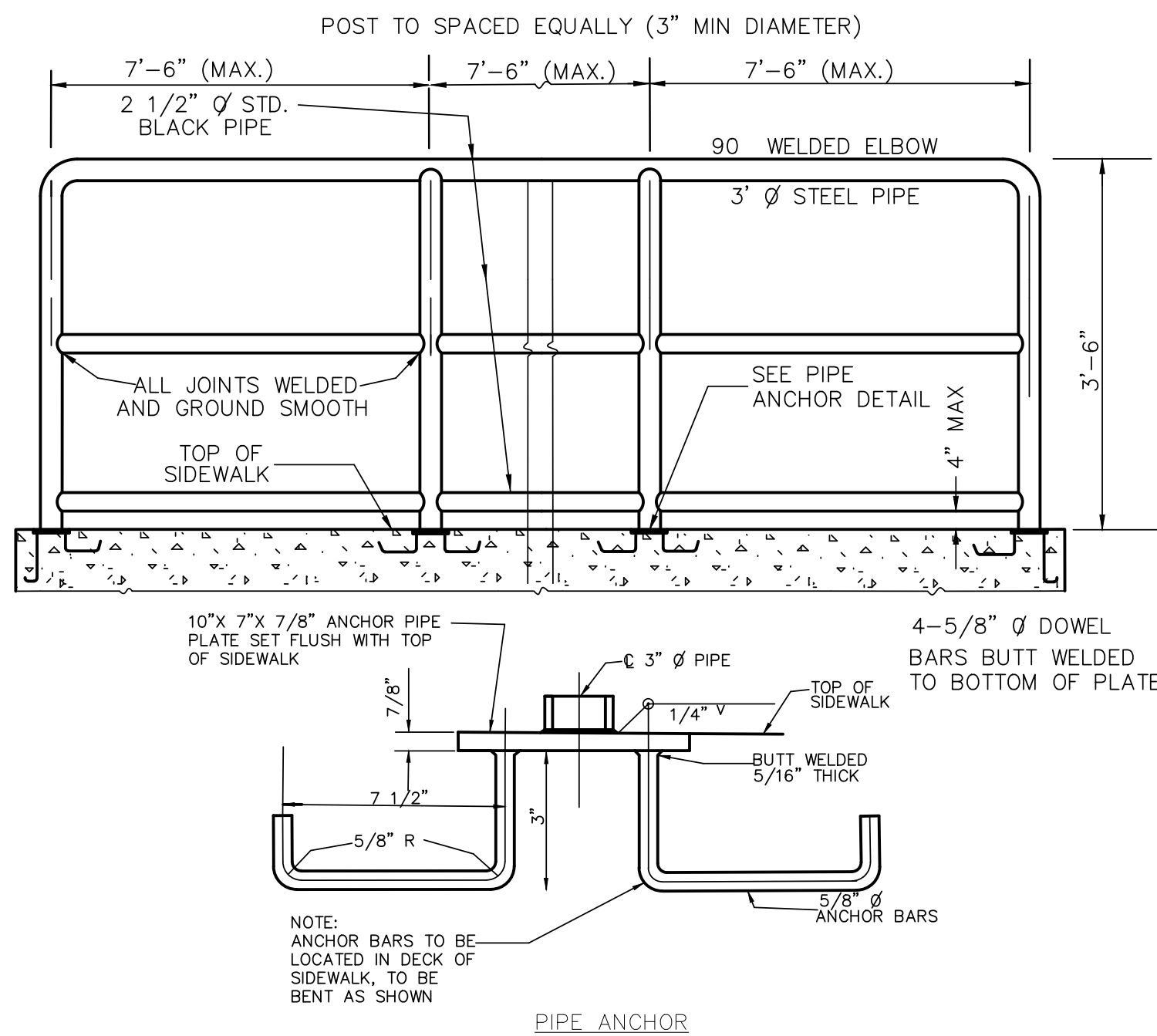
1. REFERENCE RESPECTIVE DRAIN PLAN & PROFILE FOR TYPE AND SIZE
2. STANDARD STRUCTURAL DESIGN IS BASED ON AASHTO HS 20 WHEEL LOADING
3. MATERIAL SPECIFICATIONS:
CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTH OF 4500 P.S.I.
REINFORCING TO COMPLY WITH ASTM A615 GRADE 60, A706 GRADE 60 OR A497 GRADE 70; BAR BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI STANDARDS
4. STRUCTURE TO LIE ON COMPACTED GRANULAR BASE TO INSURE UNIFORM DISTRIBUTION OF SOIL PRESSURES
5. SHAPE INVERT WITH 2500 P.S.I. CONCRETE FILL AS REQUIRED (NO EXTRA PAY ITEM)
6. COORDINATE PIPE OPENINGS WITH MANUFACTURER
7. PRECAST BOXES BY OLDCASTLE OR APPROVED EQUAL



TYPICAL DETAIL



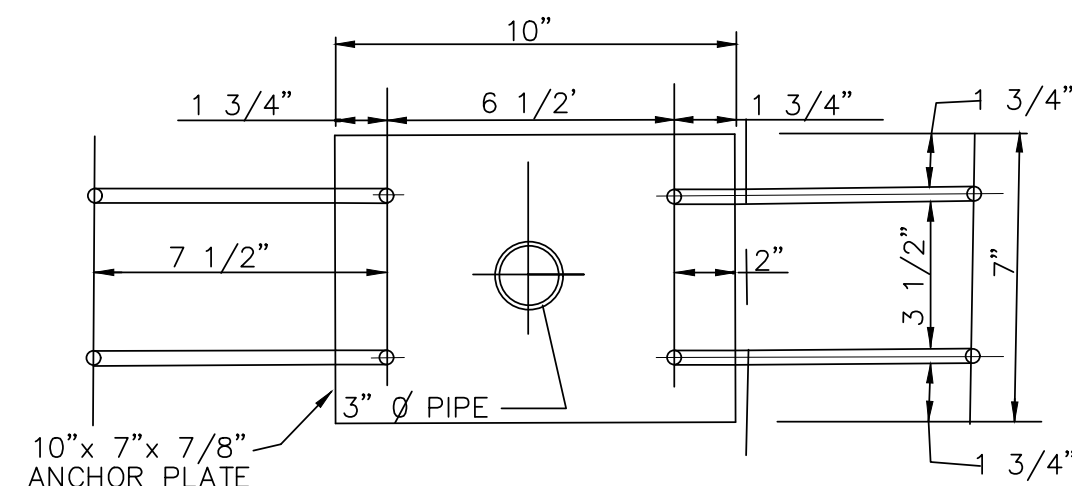
CONCRETE COLLAR DETAIL



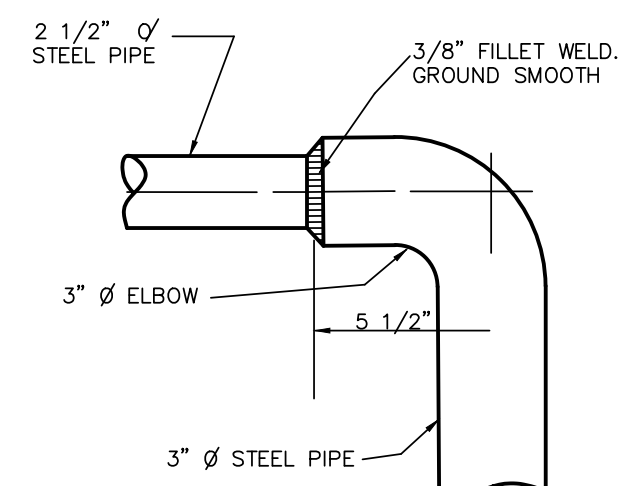
SIDEWALK PIPE RAILING DETAILS

N.T.S.

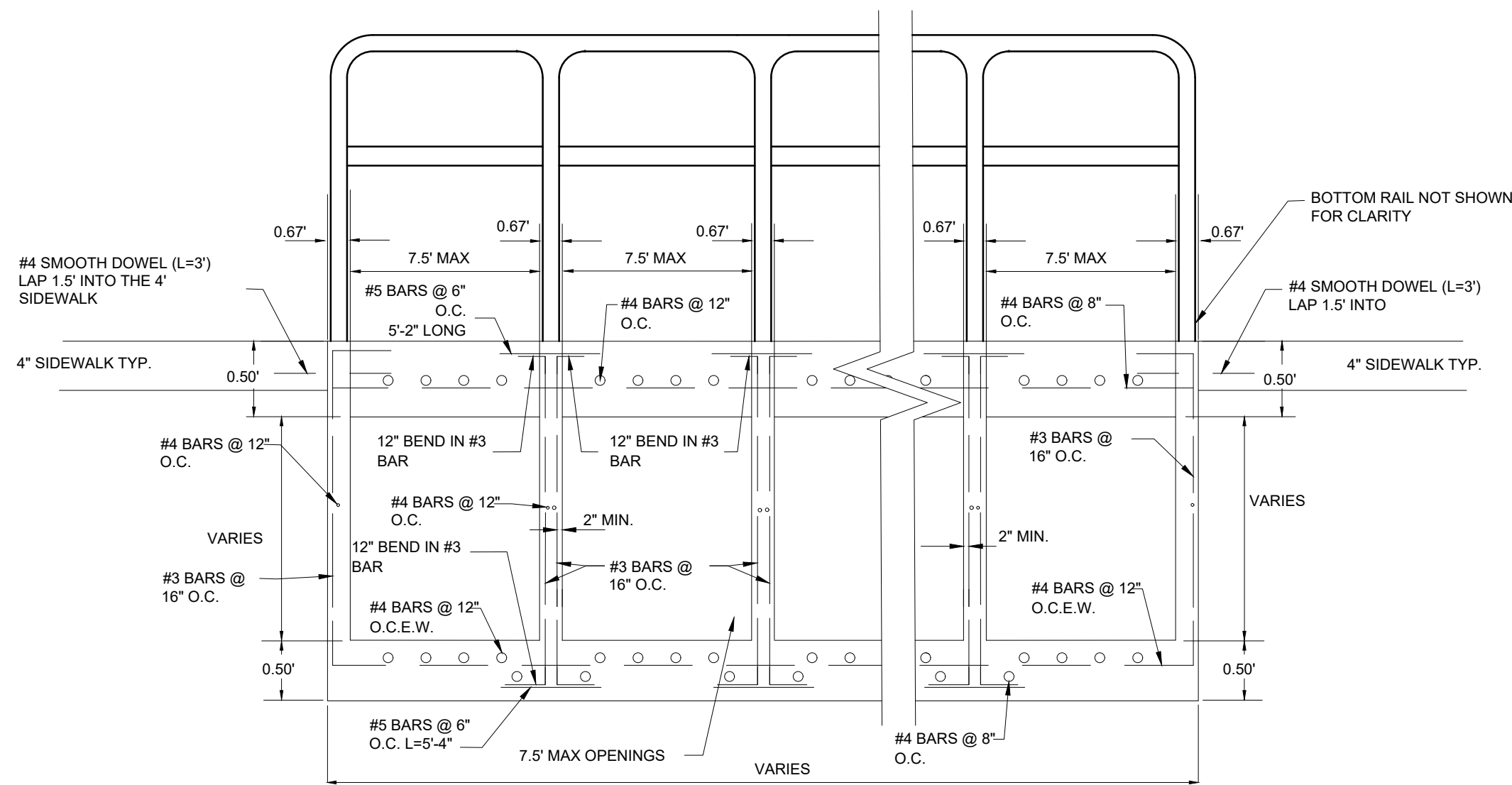
NOTE: RAILING TO BE PAINTED: SHOP COAT: "RUST-OLEUM" NO. 678 QUICK DRYING RED PRIMER. FIRST FIELD COAT: "RUST-OLEUM" NO. 7773 ZINC CHROMATE PRIMER. SECONDFIELD COAT: "RUST-OLEUM" NO. 7715 "ALUMINUM" OR APPROVED EQUAL.



PLAN OF PIPE ANCHOR



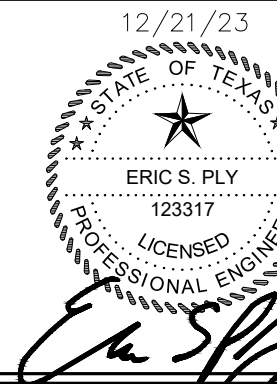
90° WELDED ELBOW



SIDEWALK BOX SECTION "A-A"

N.T.S.

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



STORM DETAILS (1 OF 2)

VOGES SUBDIVISION
UNIT 3

NO.	REVISION	DESCRIPTION	DATE

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C5.5

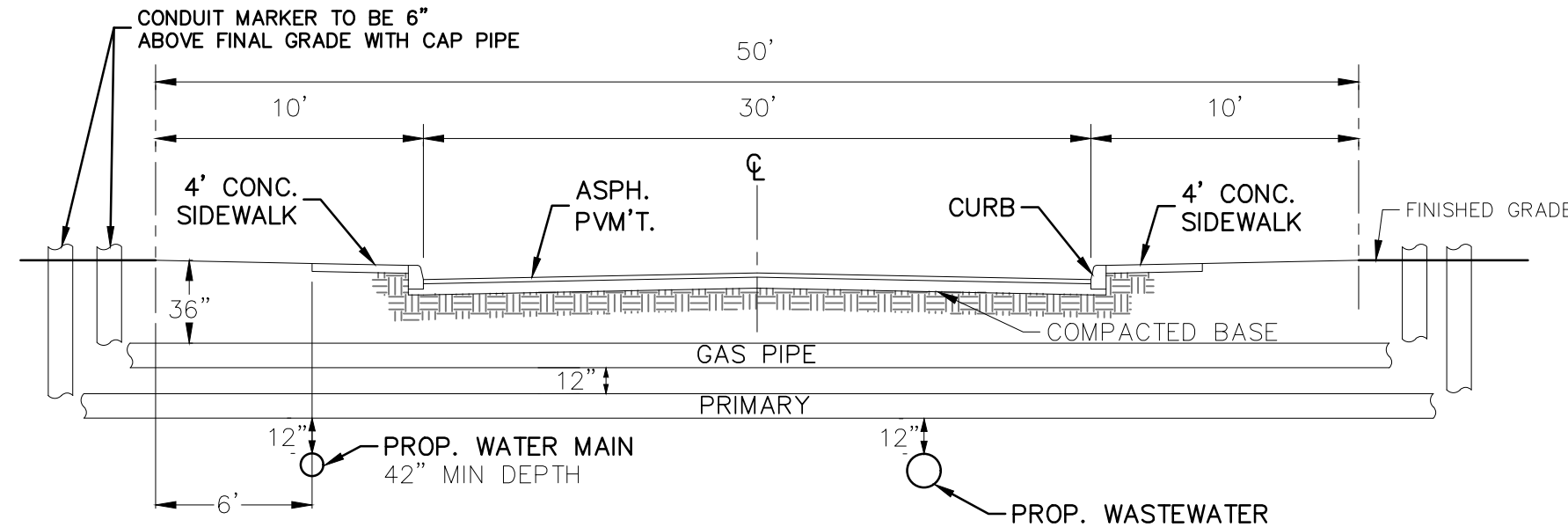
DATE: 12/21/21
FILE: 148.014_STORM DETAILS.dwg

TABLE OF DIMENSIONS AND REINFORCING STEEL (Wings for one structure end)										
Dimensions	Variable Reinforcing					Estimated Quantities per ft of wing (2-wings)		Estimated Quantities per ft of Toe wall (1-toe wall)		
	W	X	Y	Z	Bars J1	Bars J2	Reinf (Lb/Ft) (2-wings)	Reinf (Lb/Ft) (1-Toe)	Reinf (CY/Ft) (1-toe wall)	
Maximum Wingwall Height										
2'-6"	2'-10"	10"	1'-0"	7"	#4	1'-0"	48.64	0.406	6.85 0.071	
2'-9"	2'-10"	10"	1'-0"	7"	#4	1'-0"	49.31	0.424	6.85 0.071	
3'-0"	2'-10"	10"	1'-0"	7"	#4	1'-0"	49.98	0.444	6.85 0.071	
3'-3"	2'-10"	10"	1'-0"	7"	#4	1'-0"	53.32	0.462	6.85 0.071	
3'-6"	2'-10"	10"	1'-0"	7"	#4	1'-0"	53.98	0.480	6.85 0.071	
4'-0"	2'-2"	1'-2"	1'-0"	7"	#4	1'-0"	55.77	0.532	6.85 0.071	
4'-6"	3'-2"	1'-2"	1'-0"	7"	#4	1'-0"	59.77	0.568	6.85 0.071	
5'-0"	3'-9"	1'-7"	1'-2"	7"	#4	1'-0"	63.45	0.632	6.96 0.075	
5'-6"	3'-9"	1'-7"	1'-2"	7"	#4	1'-0"	67.46	0.668	6.96 0.075	
6'-0"	4'-6"	2'-4"	1'-4"	7"	#5	1'-0"	80.67	0.730	7.07 0.078	
6'-6"	4'-6"	2'-4"	1'-4"	7"	#5	1'-0"	85.05	0.768	7.07 0.078	
7'-0"	5'-0"	2'-3"	1'-9"	8"	#5	1'-0"	92.15	0.864	8.07 0.093	
7'-6"	5'-0"	2'-3"	1'-9"	8"	#5	1'-0"	95.54	0.902	8.07 0.093	
8'-0"	5'-6"	2'-8"	1'-10"	8"	#5	6"	139.04	0.962	8.13 0.095	
8'-6"	5'-6"	2'-8"	1'-10"	8"	#5	6"	144.47	1.000	8.13 0.095	
9'-0"	6'-0"	2'-10"	2'-2"	9"	#6	6"	156.93	1.136	8.41 0.110	
10'-0"	6'-5"	3'-0"	2'-5"	9"	#6	6"	196.27	1.234	8.57 0.117	
11'-6"	7'-2"	3'-6"	2'-8"	11"	#6	6"	230.13	1.438	9.52 0.140	
12'-6"	7'-8"	3'-9"	2'-11"	1'-0"	#7	6"	283.41	1.592	9.74 0.157	
13'-6"	8'-4"	4'-0"	3'-2"	1'-2"	#8	6"	348.72	1.804	10.02 0.168	
14'-0"	8'-10"	4'-10"	3'-8"	1'-4"	#9	6"	432.94	2.046	10.30 0.218	
15'-6"	9'-6"	4'-10"	3'-8"	1'-6"	#9	#7	489.52	2.302	11.24 0.253	
16'-0"	9'-11"	5'-0"	3'-11"	1'-7"	#9	#7	505.72	2.448	11.47 0.279	





SECTION A-A
(Showing wing reinforcement.)

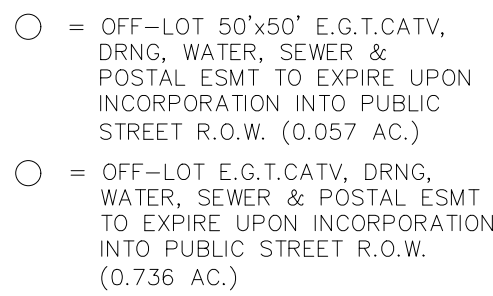
SECTION B-B
(Showing wing reinforcement.)

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND SPECIFICATIONS FOR CONFORMANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, 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 CONTRACTORS IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, AND THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL BE RESPONSIBLE FOR THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.



NOT TO SCALE

B.L.	BUILDING SETBACK LINE
E.G.T.T.V.E	ELEC., GAS, TELE., & CABLE TV EASEMENT
D.E.	DRAINAGE EASEMENT
— WW — WW —	EXISTING WASTEWATER LINE
— — — — —	PROPOSED WASTEWATER LINE
— — — — —	PROPOSED WASTEWATER SERVICE
— W — W —	EXISTING WATER LINE
— — — — —	PROPOSED WATER LINE
— — — — —	PROPOSED WATER SERVICE
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
	UTILITY CROSSING



1. OVERALL UTILITY PLAIN IS PROVIDED AS A LOCATION REFERENCE FOR THE PURPOSE OF DRY UTILITY TRENCHING, CONDUIT PLACEMENT AND TRANSFORMER / ENCLOSURE PAD INSTALLATION. CONTRACTOR SHALL REFER TO APPROPRIATE UTILITY PROVIDER CONSTRUCTION PLANS FOR DRY UTILITY CONSTRUCTION.
2. TELEPHONE AND CABLE LINES SHALL NOT GO IN JOINT TRENCH WITH GVEC.
3. CONDUITS WILL BE REQUIRED FOR CPS ENERGY UTILITY CROSSINGS WHEN STREET OR DRAIN CONSTRUCTION PRECEDES UTILITY INSTALLATION. CONDUIT FOR CROSSINGS AS FOLLOWS:
ELECTRIC CROSSINGS - SCHEDULE 80 "GRAY"
GAS CROSSINGS - SCHEDULE 80 "GRAY" *
4. CONDUITS WILL BE REQUIRED FOR UNDERGROUND TELEPHONE AND CABLE (IF ABOVE APPLIES). CONDUIT FOR CROSSINGS AS FOLLOWS:
PRIMARY - 4" SCHEDULE 40 "GRAY"
SECONDARY - 4" SCHEDULE 40 "GRAY" **
5. DRY UTILITY CONDUIT TO EXTEND 2' OUTSIDE OF R.O.W.

* CHANGES TO SCHEDULE AND COLOR MAY BE ALLOWED WITH CPS APPROVAL.

** CHANGES TO SCHEDULE AND COLOR MAY BE ALLOWED WITH AT&T AND SPECTRUM APPROVAL.

1. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO CONSTRUCTION.
2. PRIVATE CONDUIT SHALL BE "WHITE" SCHEDULE 40 PVC CONDUIT WITH 90° SWEEPS TO 6" ABOVE GRADE WITH CAP PIPE.



THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

Drawing Name: M:\projects\248 - voges unit 4\CD\248.014_OVERALL UTILITY.dwg User: mott-p Dec 21, 2023 4:50pm

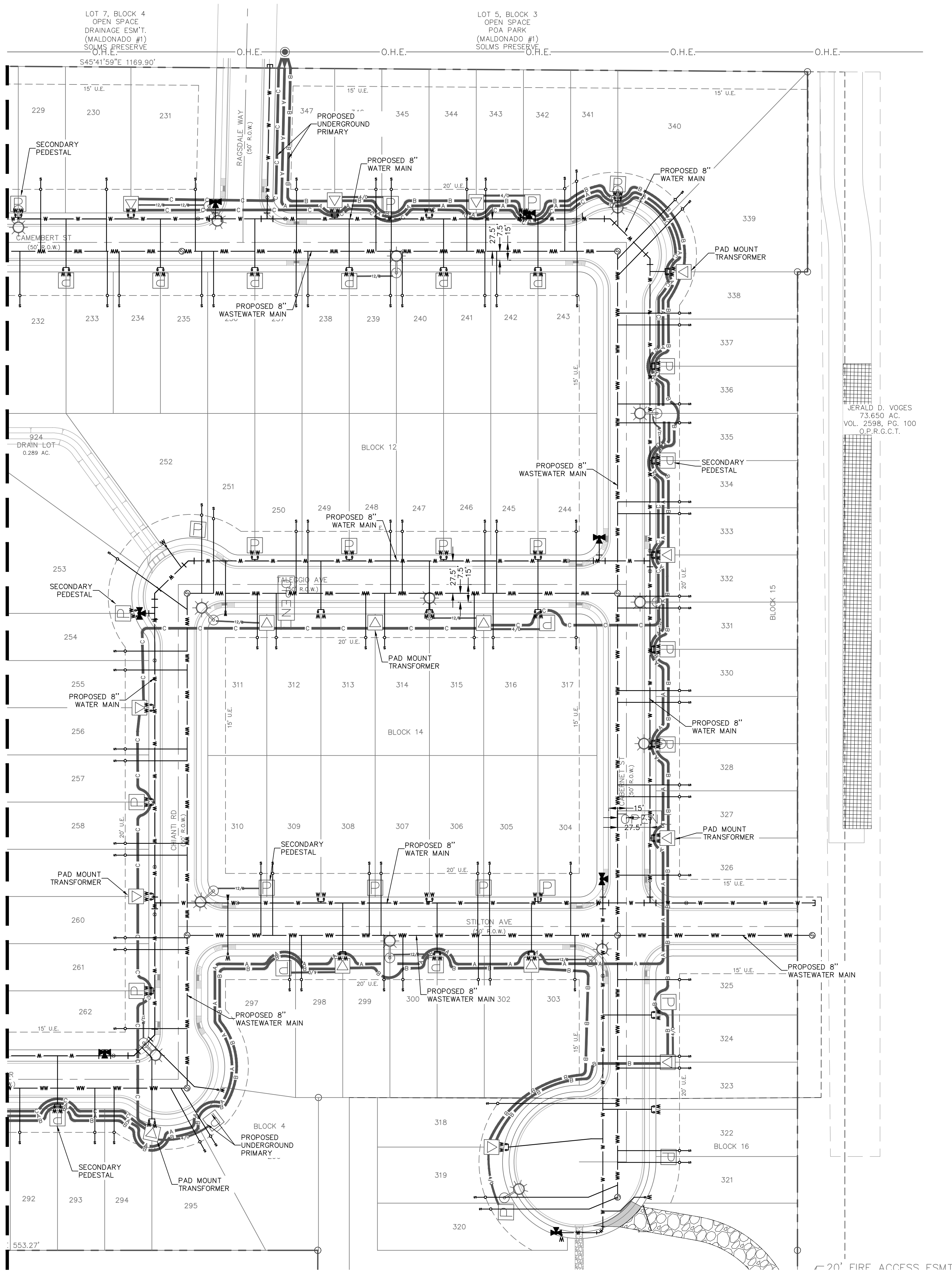
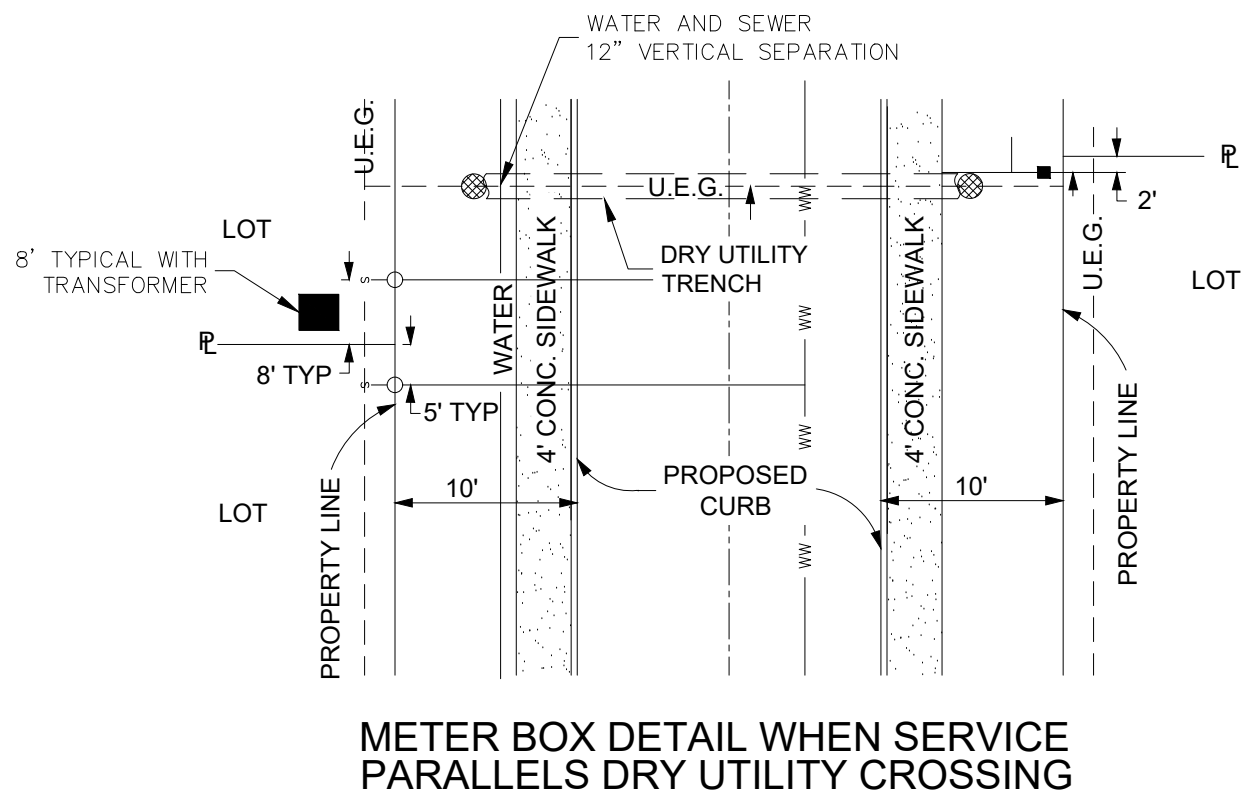
TRENCH EXCAVATION SAFETY PROTECTION

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 EXCAVATIONS.

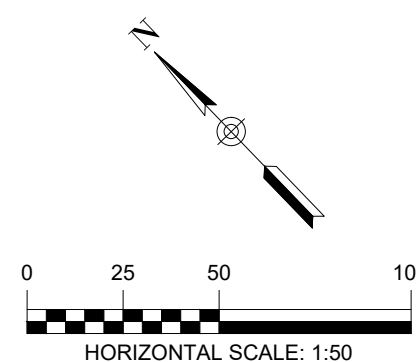
LOT 7, BLOCK 4
OPEN SPACE
DRAINAGE ESM'T.
(MALDONADO #1)
SOLMS PRESERVE
O.H.E.

LOT 5, BLOCK 3
OPEN SPACE
POA PARK
(MALDONADO #1)
SOLMS PRESERVE
O.H.E.

MATCHLINE (SEE SHEET C8.0)



LEGEND	
B.L.	BUILDING SETBACK LINE
E.G.T./V.E.	ELEC., GAS, TELE. & CABLE TV EASEMENT
D.E.	DRAINAGE EASEMENT
WW	EXISTING WASTEWATER LINE
W	PROPOSED WASTEWATER LINE
W	PROPOSED WASTEWATER SERVICE
W	EXISTING WATER LINE
W	PROPOSED WATER LINE
W	PROPOSED WATER SERVICE
+	EXISTING FIRE HYDRANT
+	PROPOSED FIRE HYDRANT
+	PROPOSED WATER VALVE
+	UTILITY CROSSING
+	PROPOSED POLE
+	PROPOSED POLE WITH RISER
+	STREET LIGHT
+	3 PH. PAD MOUNT XFMR
+	SECONDARY PEDESTAL
+	SWITCH
A	PHASE A UNDERGROUND PRIMARY
B	PHASE B UNDERGROUND PRIMARY
C	PHASE C UNDERGROUND PRIMARY
S	UNDERGROUND SECONDARY



- = OFF-LOT 50'x50' E.G.T./CATV, DRNG, WATER, SEWER & POSTAL ESMT TO EXPIRE UPON INCORPORATION INTO PUBLIC STREET R.O.W. (0.057 AC.)
- = OFF-LOT E.G.T./CATV, DRNG, WATER, SEWER & POSTAL ESMT TO EXPIRE UPON INCORPORATION INTO PUBLIC STREET R.O.W. (0.736 AC.)

DRY UTILITY NOTES:

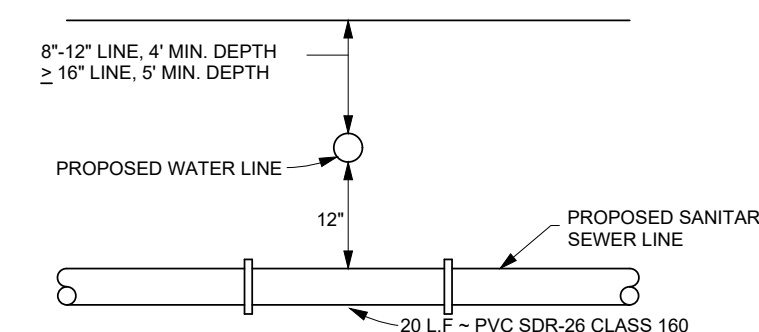
- OVERALL UTILITY PLAN IS PROVIDED AS A LOCATION REFERENCE FOR THE PURPOSE OF DRY UTILITY TRENCHING, CONDUIT PLACEMENT AND TRANSFORMER / ENCLOSURE PAD INSTALLATION. CONTRACTOR SHALL REFER TO APPROPRIATE UTILITY PROVIDER CONSTRUCTION PLANS FOR DRY UTILITY CONSTRUCTION.
- TELEPHONE AND CABLE LINES SHALL NOT GO IN JOINT TRENCH WITH GVEC.
- CONDUITS WILL BE REQUIRED FOR CPS ENERGY UTILITY CROSSINGS WHEN STREET OR DRAIN CONSTRUCTION PRECEDES UTILITY INSTALLATION. CONDUIT FOR CROSSINGS AS FOLLOWS:
ELECTRIC CROSSINGS - SCHEDULE 80 "GRAY"
GAS CROSSINGS - SCHEDULE 80 "GRAY"
- CONDUITS WILL BE REQUIRED FOR UNDERGROUND TELEPHONE AND CABLE T.V. IF ABOVE APPLIES. CONDUIT FOR CROSSINGS AS FOLLOWS:
PRIMARY - 4" SCHEDULE 40 "GRAY"
SECONDARY - 4" SCHEDULE 40 "GRAY"
- DRY UTILITY CONDUIT TO EXTEND 2' OUTSIDE OF R.O.W.

* CHANGES TO SCHEDULE AND COLOR MAY BE ALLOWED WITH CPS APPROVAL.

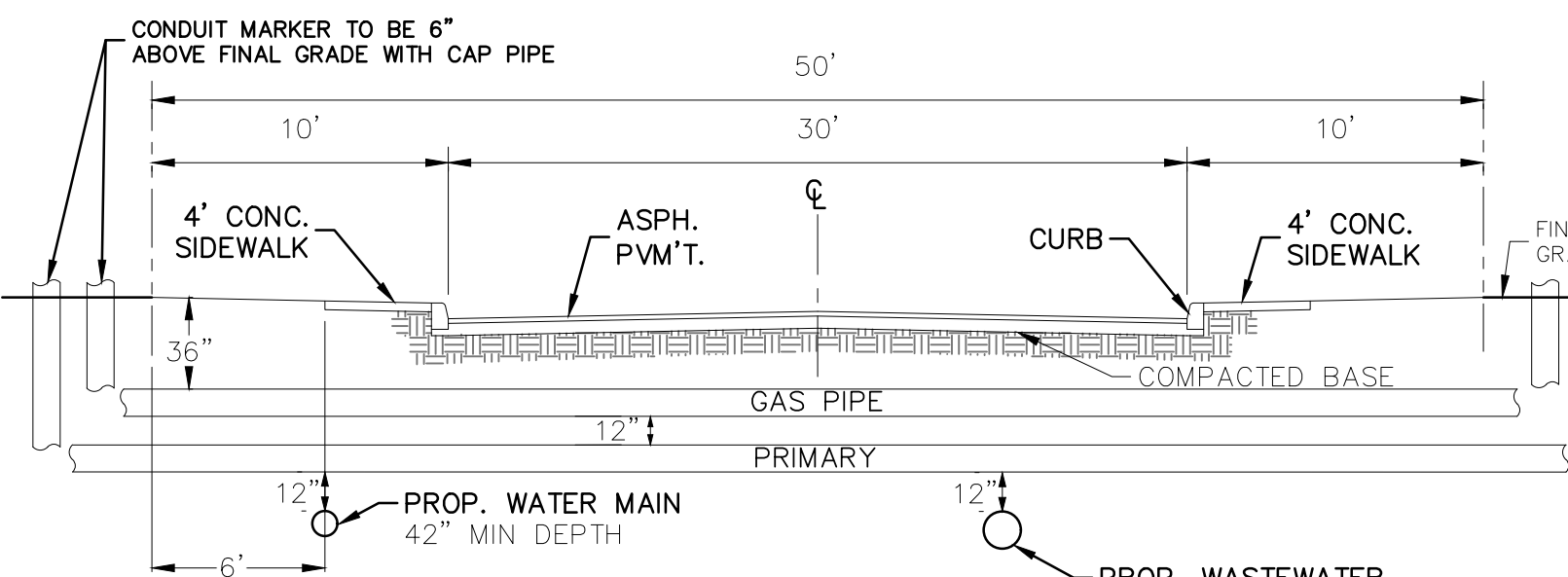
** CHANGES TO SCHEDULE AND COLOR MAY BE ALLOWED WITH AT&T AND SPECTRUM APPROVAL.

PRIVATE CONDUIT NOTES:

- CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO CONSTRUCTION.
- PRIVATE CONDUIT SHALL BE "WHITE" SCHEDULE 40 PVC CONDUIT WITH 90° SWEEPS TO 6" ABOVE GRADE WITH CAP PIPE.



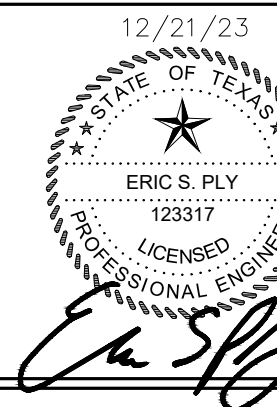
TYPICAL
SANITARY SEWER/WATER CROSSING DETAIL



TYPICAL STREET SECTION
NOT TO SCALE

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



OVERALL UTILITY
(2 OF 2)

VOGES SUBDIVISION
UNIT 3

REVISION	DATE	DESCRIPTION
NO.		

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

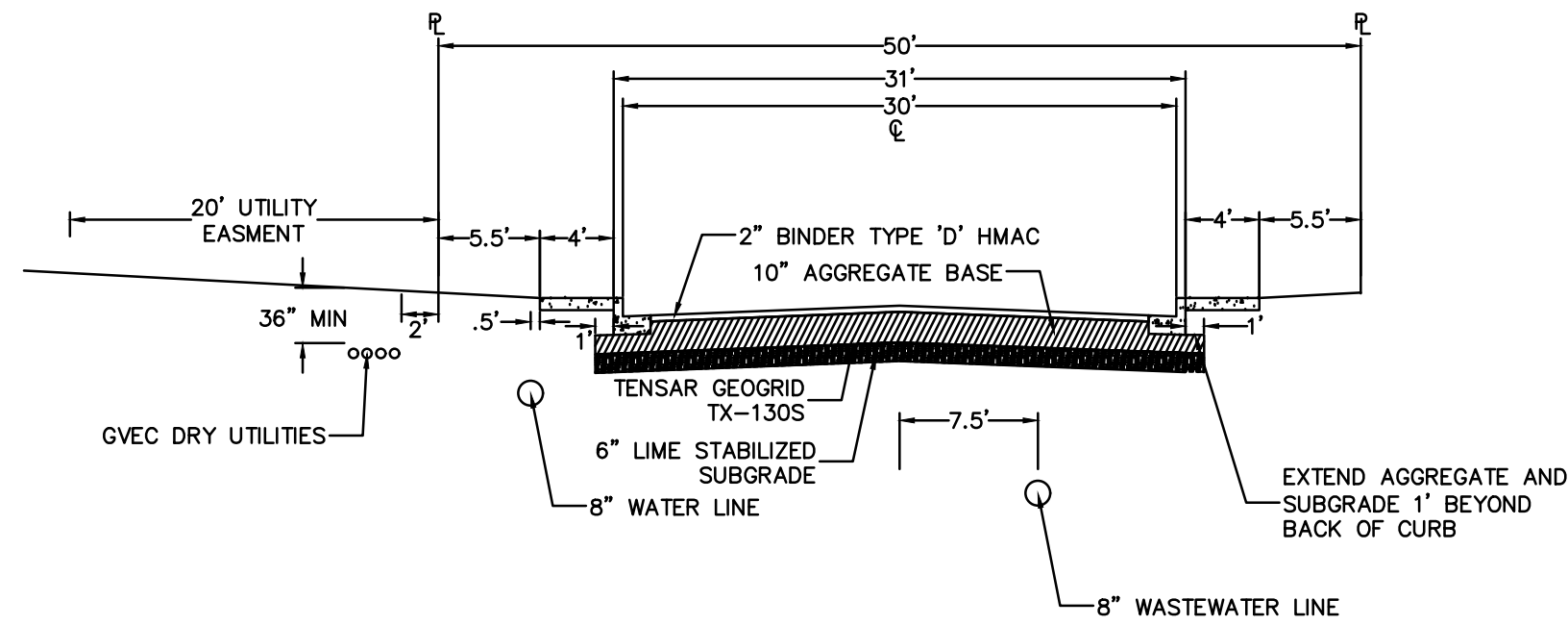
SHEET
C6.1

GVUSD (WATER)	(830) 914-2331
GUADALUPE-BLANCO RIVER AUTHORITY (SEWER)	(830) 379-5822
GVEC (ELECTRIC)	(830) 223-4832
TIME WARNER CABLE	(830) 625-3408
CENTERPOINT ENERGY (GAS)	(830) 643-6434
AT&T	(830) 303-1333
TEXAS ONE CALL SYSTEM	(800) 245-4545
ENERGY TRANSFER (PETROLEUM PIPELINE)	(210) 262-2486

TELEPHONE LOCATOR

TRENCH EXCAVATION SAFETY PROTECTION

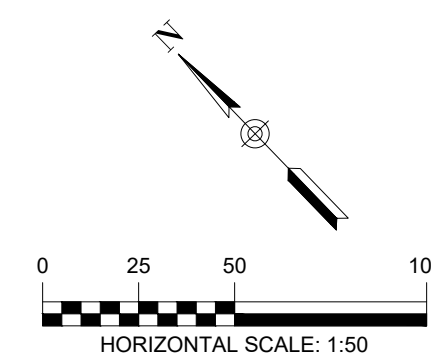
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT AREA, AND SHALL PREPARE AND SUBMIT TO THE CONTRACTOR A TRENCH SAFETY SYSTEMS PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTORS IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR PROTECTION OF ALL PERSONNEL AND EQUIPMENT FROM COLLAPSE OF EXISTING OR NEW TRENCHES 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 EXCAVATION.

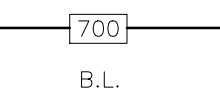




ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEOTECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH LAYER OF FILLER SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TEX-113-E, TEX-114-E, TEX-115-E. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE CITY OF NEW BRAUNFELS STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF NEW BRAUNFELS STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

CITY REQUIREMENTS FOR TESTING SHALL BE ADHERED TO, IN CASES WHERE TRENCH DEPTHS DO NOT ALLOW TECHNICIANS ACCESS, METHODS FOR TESTING SHALL BE PROPOSED AND APPROVED PRIOR TO CONSTRUCTION COMMENCING.

THIS PROJECT INCLUDES UTILITY INSTALLATIONS GREATER THAN 5- FEET IN DEPTH LOCATED IN PUBLIC RIGHT-OF-WAY OR EASEMENTS. DEEP TRENCHES POSE COMPACTION TESTING AND CONSTRUCTION CHALLENGES AND CITY METHODS FOR TESTING AND COMPACTION MAY NOT BE ACHIEVABLE.

[illegible]



- 700 — EXISTING CONTOURS
- 700 — PROPOSED CONTOURS
- B.L. BUILDING SETBACK LINE
- U.E. UTILITY EASEMENT
- D.E. DRAINAGE EASEMENT
- W — W — EXISTING WATER LINE
- PROPOSED WATER LINE
-  PROPOSED WATER SERVICE
-  UTILITY CROSSING

1. ALL UTILITIES TO BE CONSTRUCTED PRIOR TO THE STREETS.
2. NO VALVES, HYDRANTS, ETC. SHALL BE CONSTRUCTED WITHIN CURBS, RAMPS, SIDEWALKS OR DRIVEWAYS.
3. ALL WATER SERVICES ARE TO BE 1-INCH SERVICES AND METERS LOCATED 1-FOOT FROM THE PROPERTY LINE.
4. ALL DIMENSIONS ARE FROM FACE OF CURB.
5. REFER TO COVER SHEET FOR BENCHMARK INFORMATION.
6. MACHINE CHLORINATION SHALL BE USED FOR DISINFECTION.
7. MOISTURE DENSITY COMPACTION TESTING FREQUENCY--WATER MAINS TRENCHES REQUIRED EVERY 100' AND 15' FOR EACH VERTICAL FOOT OF COMPACTED BACKFILL. SERVICES RANDOMLY SELECTED AS REQUIRED BY GVUSD INSPECTOR.
8. ALL TESTING AND TEST REPORTS SHALL BE COORDINATED WITH GVUSD INSPECTOR BY THE CONTRACTOR.

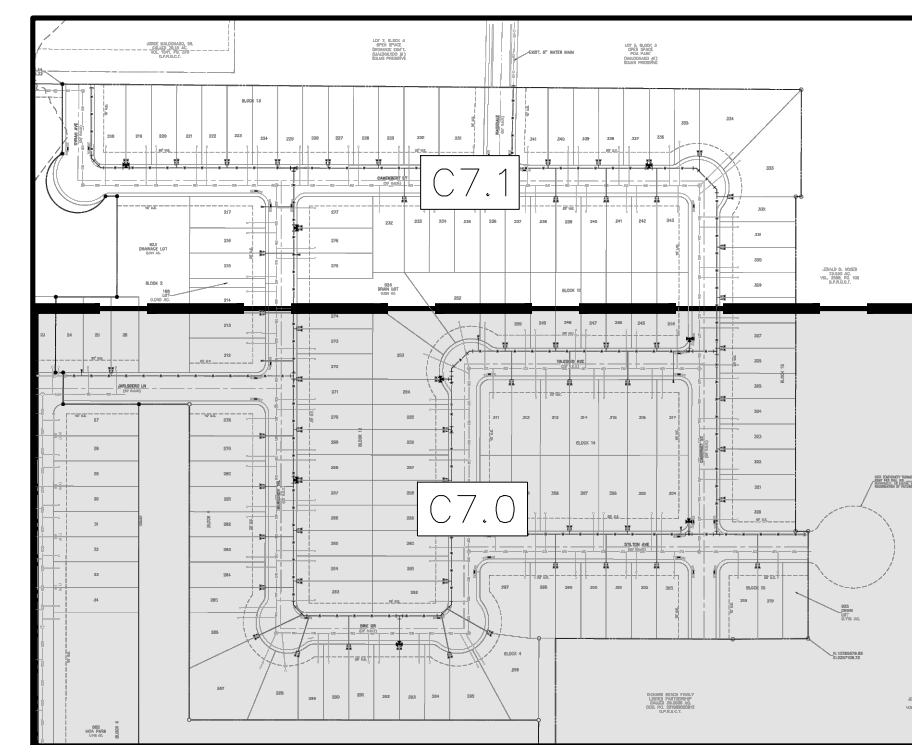


Diagram illustrating a proposed storm line connection using 45° restrained joint ductile iron fittings. The diagram shows a horizontal storm line (dashed line) connecting to a vertical line. The connection is made using a 45° restrained joint ductile iron fitting. The diagram includes labels for the existing storm line, the proposed storm line, the transition coupling, and the 45° restrained joint ductile iron fitting. Dimensions are provided for the fitting and the transition coupling.

Labels and Dimensions:

- EXISTING STORM OR PROPOSED TERLINE.
- PROPOSED STORM LINE.
- TRANSITION COUPLING, (AS REQUIRED)
- 2' (TYP.)
- 2'
- 18"
- 9"
- ALL PIPE TO BE DUCTILE IRON.
- 45° RESTRAINED JOINT DUCTILE IRON FITTINGS, (TYPICAL)

(B) WATERLINE ADJUSTMENT DETAIL

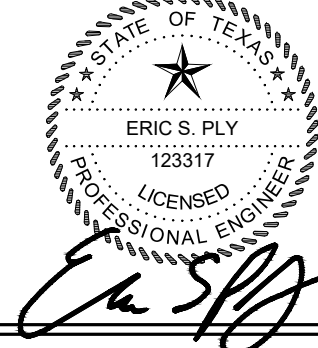
WATER TOTAL MATERIALS QUANTITIES			
ITEM	DESCRIPTION	UNIT	EST/QTY
1	8" C909 WATER LINE	LF	4,808
2	TRENCH EXCAVATION SAFETY	LF	4,808
3	FIRE HYDRANT ASSEMBLY (W/ TEE AND GATE VALVE)	EA	10
4	1" DUAL SHORT WATER SERVICE	EA	38
5	1" SINGLE SHORT WATER SERVICE	EA	5
6	1" DUAL LONG WATER SERVICE	EA	26
7	1" SINGLE LONG WATER SERVICE	EA	6
8	METER BOXES	EA	75
9	TEE-IN	EA	2
10	AUTOMATIC FLUSH VALVE	EA	2
11	TEMPORARY BLOW-OFF	EA	2
12	8" X 8" CROSS	EA	1
13	8" X 8" TEES	EA	6
14	1/8" BENDS	EA	12
15	8" CAPS	EA	2
16	8" GATE VALVE, M.J. W/BOX	EA	24
17	EDUS	EA	139

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HMT
ENGINEERING & SURVEYING

12/21/23



OVERALL WATER PLAN (1 OF 2)

VOGES SUBDIVISION
UNIT 3

[illegible]

DATE: DECEMBER 2023

DRAWN BY: MF

DESIGNED BY: ME

DATE BROUGHT IN:

HMT PROJECT NO.: 248.014

SHEET
C7.0

CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES 48 HOURS PRIOR TO EXCAVATION:

GVUSD (WATER)	(830) 914-2331
GUADALUPE-BLANCO RIVER AUTHORITY (SEWER)	(830) 379-5822
GVEC (ELECTRIC)	(830) 223-4832
TIME WARNER CABLE	(830) 625-3408
CENTERPOINT ENERGY (GAS)	(830) 643-6434
AT&T	(830) 303-1333
TEXAS ONE CALL SYSTEM	(800) 245-4545
ENERGY TRANSFER (PETROLEUM PIPELINE)	(210) 262-2486
C.P.E. LOCATOR	

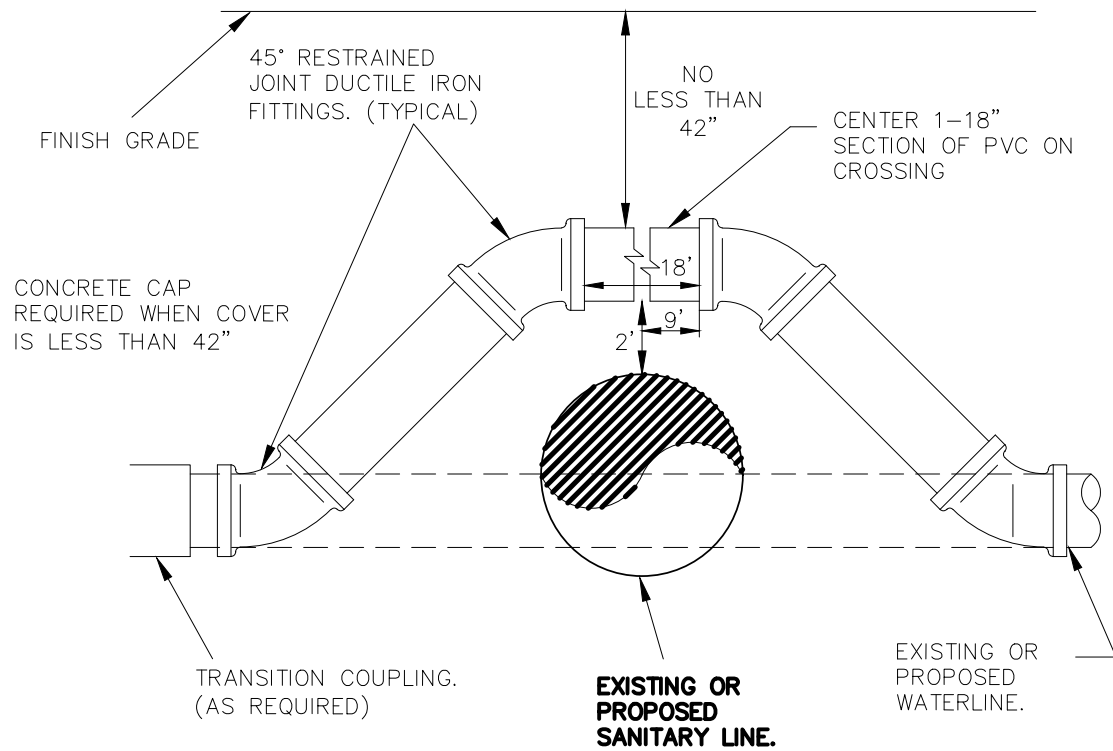
CALL CENTER POINT ENERGY LOCATOR AT 1-800-545-6005, 48HRS BEFORE BEGINNING ANY EXCAVATION. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CENTER POINT ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

TELEPHONE LOCATOR

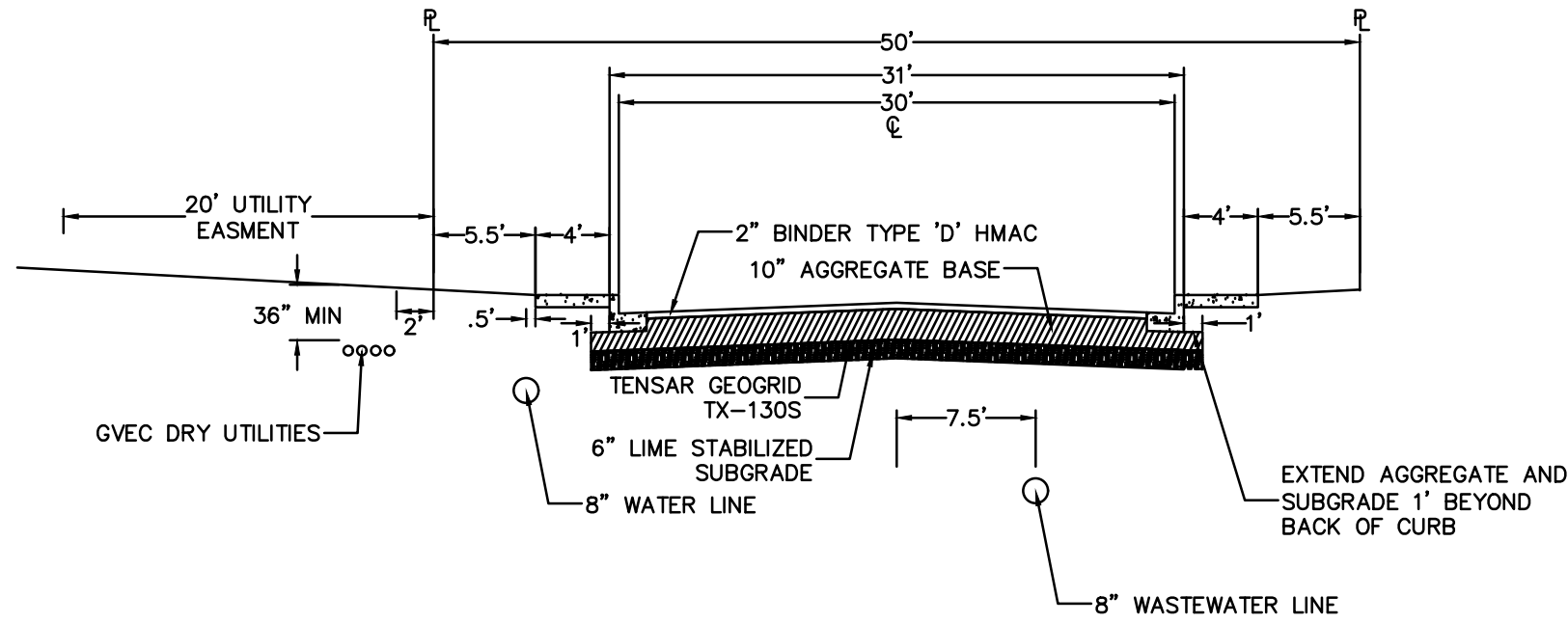
THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48HRS PRIOR TO EXCAVATION AT 1-800-545-6005,, CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY DURING CONSTRUCTION.

TRENCH EXCAVATION SAFETY 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 CONTRACTORS 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 EXCAVATIONS.



WATERLINE ADJUSTMENT DETAIL
N.T.S.



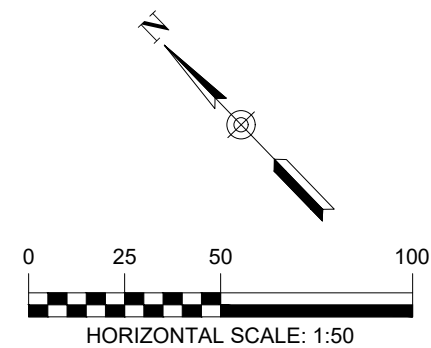
UTILITY TRENCH COMPACTION

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DEEP TRENCH COMPACTION TESTING

CITY REQUIREMENTS FOR TESTING SHALL BE ADHERED TO, IN CASES WHERE TRENCH DEPTHS DO NOT ALLOW TECHNICIANS ACCESS, METHODS FOR TESTING SHALL BE PROPOSED AND APPROVED PRIOR TO CONSTRUCTION COMMENCING.

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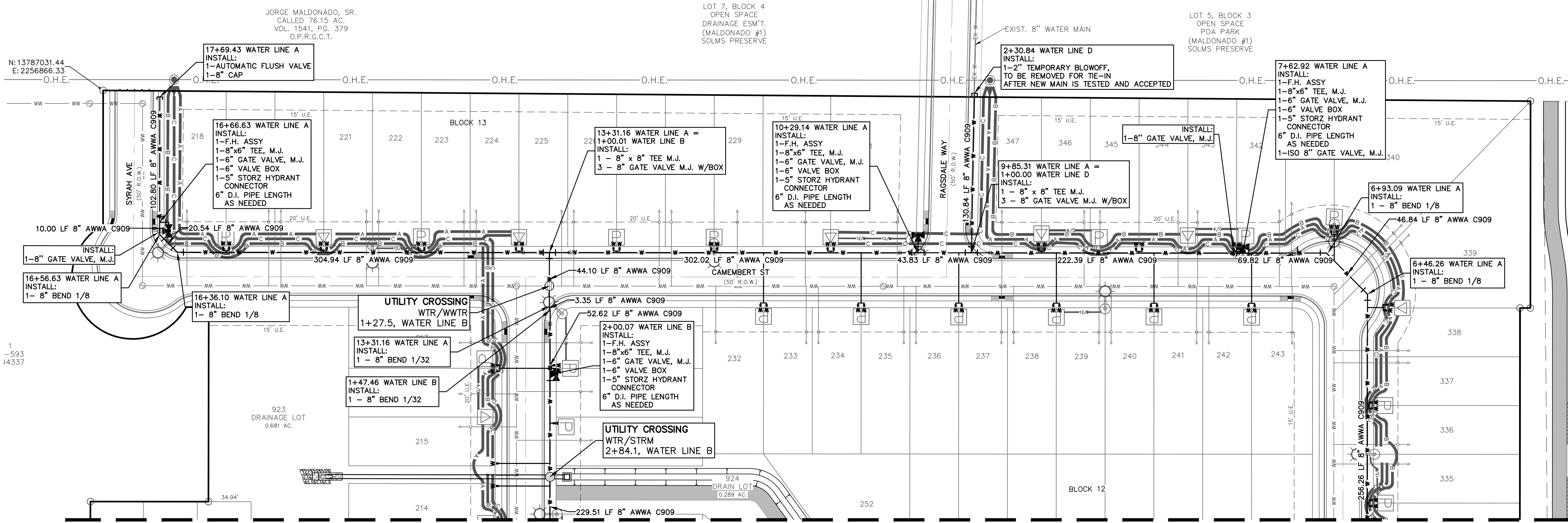


LEGEND

---	700	EXISTING CONTOURS
---	700	PROPOSED CONTOURS
B.L.		BUILDING SETBACK LINE
U.E.		UTILITY EASEMENT
D.E.		DRAINAGE EASEMENT
---	---	EXISTING WATER LINE
---	---	PROPOSED WATER LINE
---	---	PROPOSED WATER SERVICE
---	---	UTILITY CROSSING

UTILITY NOTES:

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- NO VALVES, HYDRANTS, ETC. SHALL BE CONSTRUCTED WITHIN CURBS, RAMPS, SIDEWALKS OR DRIVEWAYS.
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- ALL DIMENSIONS ARE FROM FACE OF CURB.
- REFER TO COVER SHEET FOR BENCHMARK INFORMATION.
- MACHINE CHLORINATION SHALL BE USED FOR DISINFECTION.
- MOISTURE DENSITY COMPACTION TESTING FREQUENCY-WATER MAIN TRENCHES REQUIRED EVERY 300 LF FOR EACH VERTICAL FOOT OF COMPACTED BACKFILL. SERVICES RANDOMLY SELECTED AS REQUIRED BY GVUSD INSPECTOR.
- ALL TESTING AND TEST REPORTS SHALL BE COORDINATED WITH GVUSD INSPECTOR BY THE CONTRACTOR.



MATCHLINE (SEE SHEET C7.0)

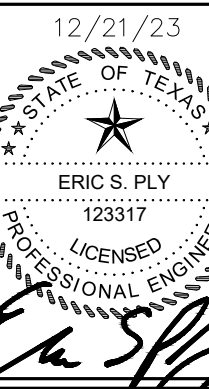
WATER TOTAL MATERIALS QUANTITIES

ITEM	DESCRIPTION	UNIT	EST/QTY
1	8" C909 WATER LINE	LF	4,808
2	TRENCH EXCAVATION SAFETY	LF	4,808
3	FIRE HYDRANT ASSEMBLY (W/ TEE AND GATE VALVE)	EA	10
4	1" DUAL SHORT WATER SERVICE	EA	38
5	1" SINGLE SHORT WATER SERVICE	EA	5
6	1" DUAL LONG WATER SERVICE	EA	26
7	1" SINGLE LONG WATER SERVICE	EA	6
8	METER BOXES	EA	75
9	TIE-IN	EA	2
10	AUTOMATIC FLUSH VALVE	EA	2
11	TEMPORARY BLOW-OFF	EA	2
12	8" X 8" CROSS	EA	1
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14	1/8 BENDS	EA	12
15	8" CAPS	EA	2
16	8" GATE VALVE, M.J. W/BOX	EA	24
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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



OVERALL WATER

PLAN (2 OF 2)

VOGES SUBDIVISION
UNIT 3

REVISION DATE

REVISION DESCRIPTION

NO.

DATE: DECEMBER 2023

DRAWN BY: MP

DESIGNED BY: MP

REVIEWED BY: ESP

HMT PROJECT NO.:
248.014

SHEET

C7.1

CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES 48 HOURS PRIOR TO EXCAVATION:

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C.P.E. LOCATOR	

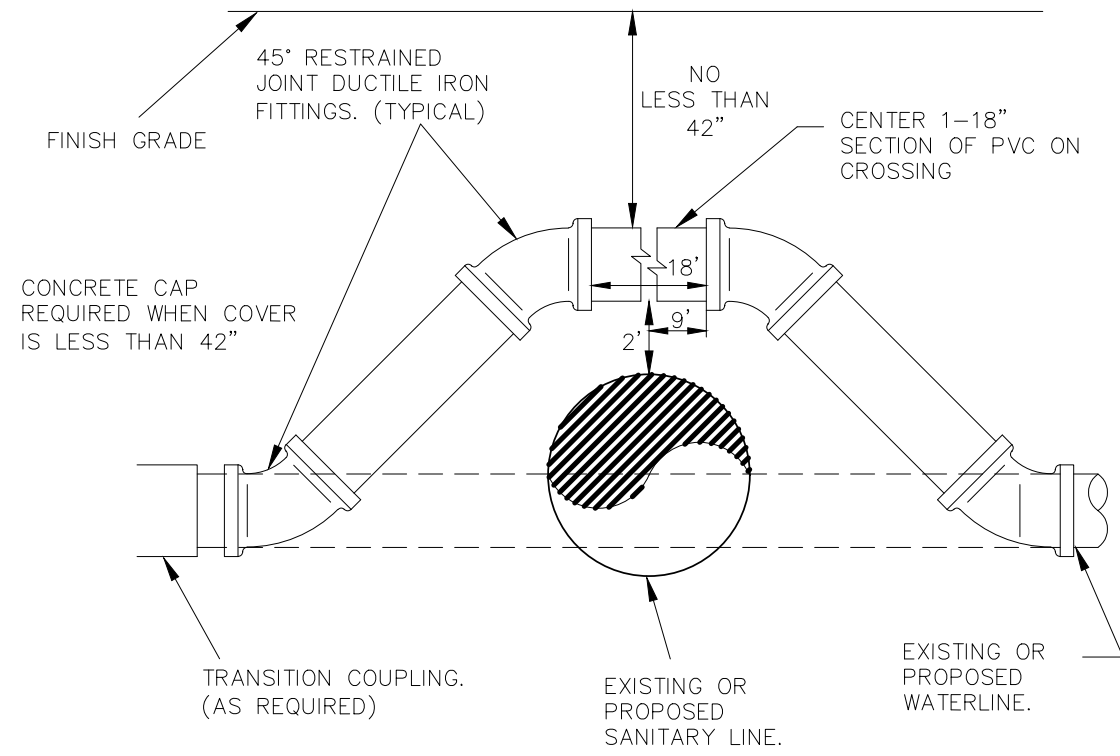
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TELEPHONE LOCATOR

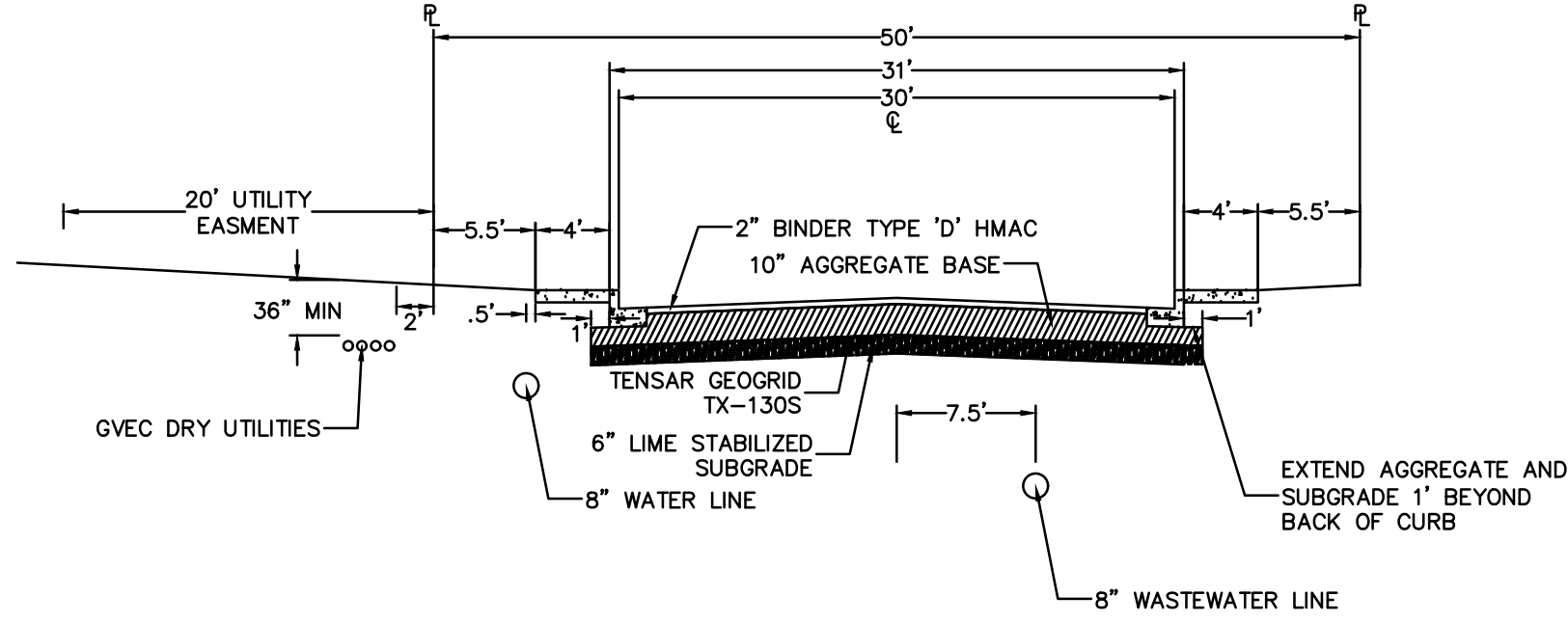
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TRENCH EXCAVATION SAFETY PROTECTION

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A WATERLINE ADJUSTMENT DETAIL
N.T.S.



UTILITY TRENCH COMPACTION

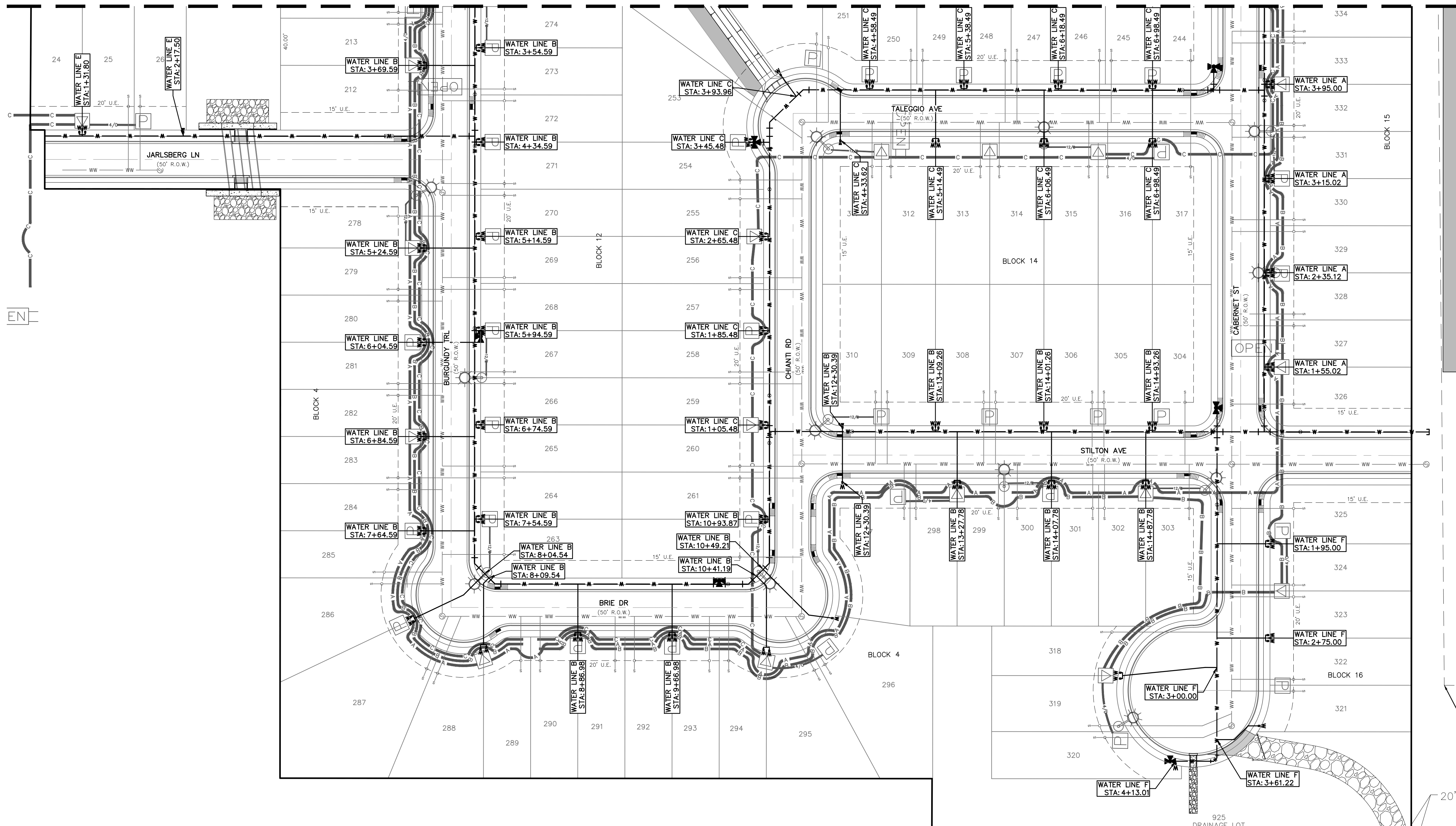
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MATCHLINE (SEE SHEET C7.1)



REFER TO THE COVER SHEET
FOR BENCHMARK INFORMATION.

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LEGEND

— 700 —	EXISTING CONTOURS
— 700 —	PROPOSED CONTOURS
B.L.	BUILDING SETBACK LINE
U.E.	UTILITY EASEMENT
D.E.	DRAINAGE EASEMENT
— W — W —	EXISTING WATER LINE
— W — W —	PROPOSED WATER LINE
— W — W —	PROPOSED WATER SERVICE
— X —	UTILITY CROSSING

UTILITY NOTES:

1. ALL UTILITIES TO BE CONSTRUCTED PRIOR TO THE STREETS.
2. NO VALVES, HYDRANTS, ETC. SHALL BE CONSTRUCTED WITHIN CURBS, RAMPS, SIDEWALKS OR DRIVEWAYS.
3. ALL WATER SERVICES ARE TO BE 1-INCH SERVICES AND METERS LOCATED 1-FOOT FROM THE PROPERTY LINE.
4. ALL DIMENSIONS ARE FROM FACE OF CURB.
5. REFER TO COVER SHEET FOR BENCHMARK INFORMATION.
6. MACHINE CHLORINATION SHALL BE USED FOR DISINFECTION.
7. MOISTURE DENSITY COMPACTION TESTING FREQUENCY—WATER MAIN TRENCHES REQUIRED EVERY 300 LF FOR EACH VERTICAL FOOT OF COMPACTED BACKFILL SERVICES RANDOMLY SELECTED AS REQUIRED BY GVSUD INSPECTOR.
8. ALL TESTING AND TEST REPORTS SHALL BE COORDINATED WITH GVSUD INSPECTOR BY THE CONTRACTOR.

WATER LATERALS
(1 OF 2)

VOGES SUBDIVISION
UNIT 3

NO.	REVISION	DESCRIPTION	REVISION DATE

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C7.2

CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES 48 HOURS PRIOR TO EXCAVATION:

GVSUD (WATER)	(830) 914-2331
GUADALUPE-BLANCO RIVER AUTHORITY (SEWER)	(830) 379-5822
GVEC (ELECTRIC)	(830) 223-4832
TIME WARNER CABLE	(830) 625-3408
CENTERPOINT ENERGY (GAS)	(830) 643-6434
AT&T	(830) 303-1333
TEXAS ONE CALL SYSTEM	(800) 245-4545
ENERGY TRANSFER (PETROLEUM PIPELINE)	(210) 262-2486
C.P.E. LOCATOR	

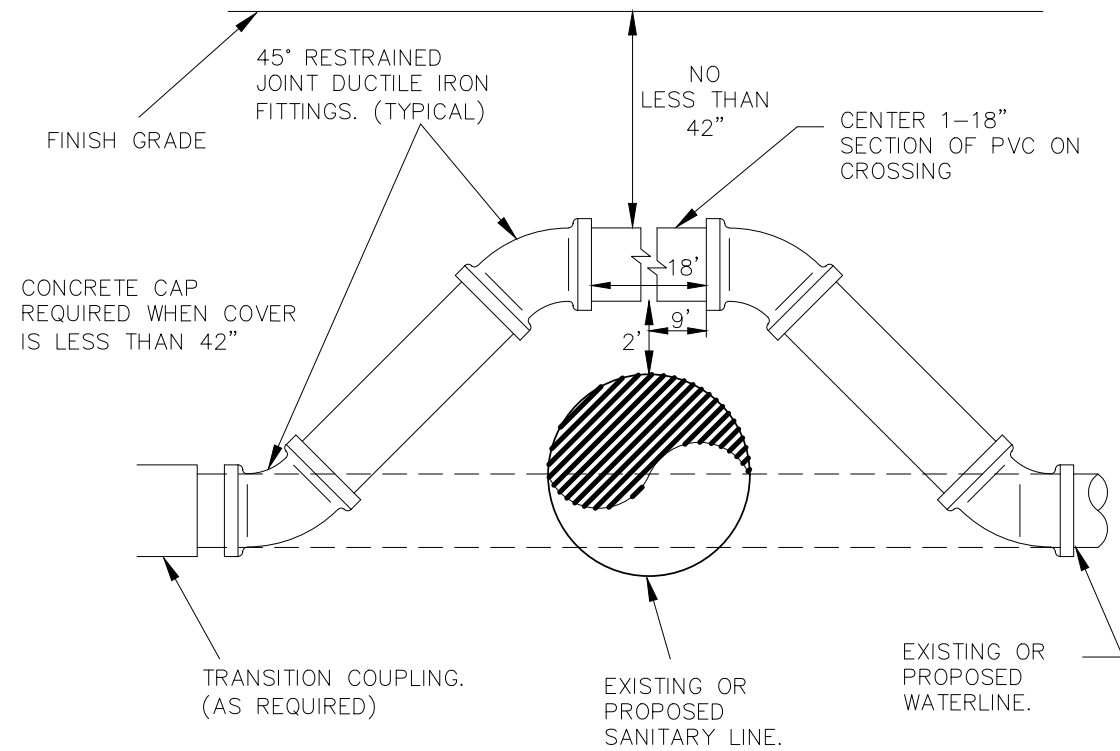
CALL CENTER POINT ENERGY LOCATOR AT 1-800-545-6005, 48HRS BEFORE BEGINNING ANY EXCAVATION. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CENTER POINT ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

TELEPHONE LOCATOR

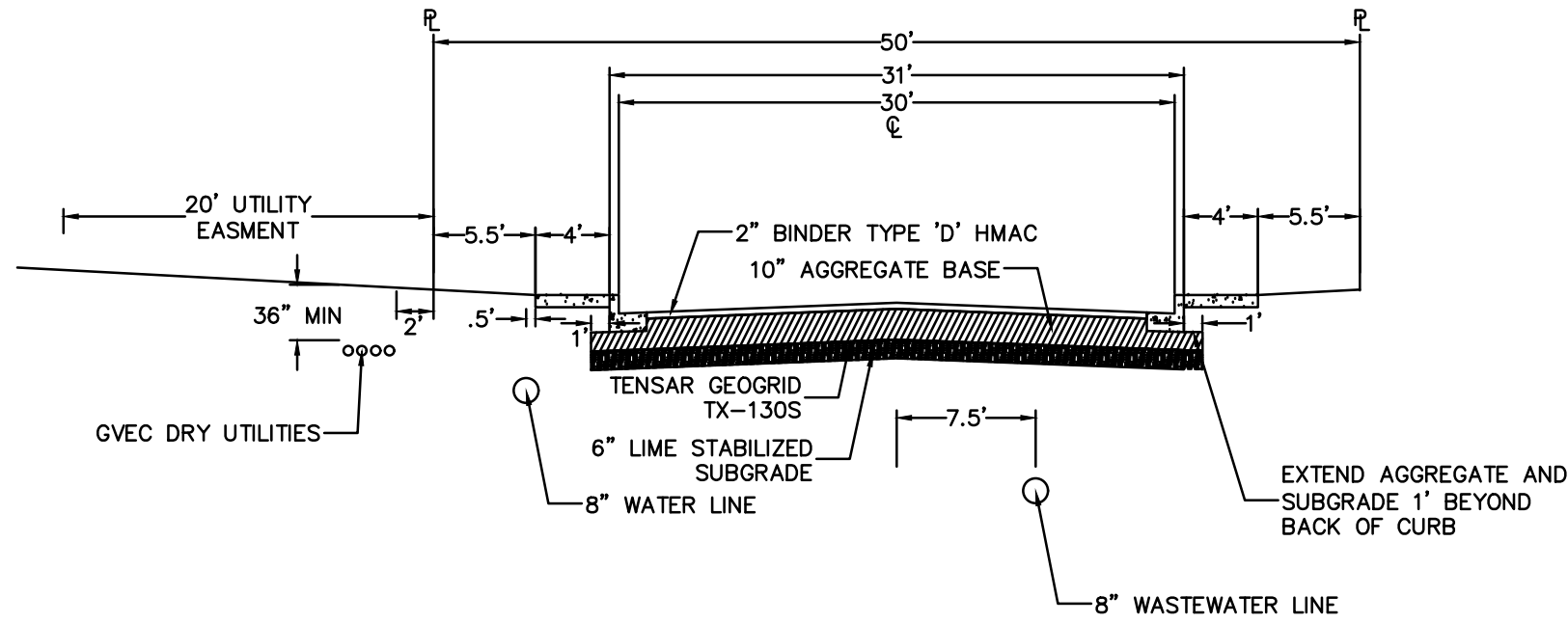
THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48HRS PRIOR TO EXCAVATION AT 1-800-545-6005., CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY DURING CONSTRUCTION.

TRENCH EXCAVATION SAFETY 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 CONTRACTORS 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 EXCAVATIONS.



A WATERLINE ADJUSTMENT DETAIL
N.T.S.



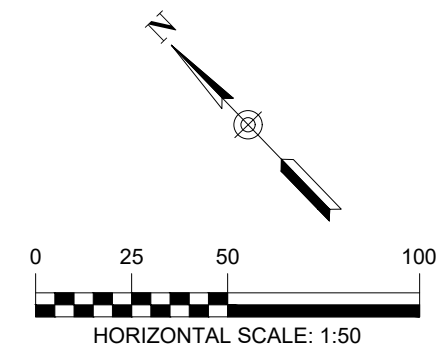
UTILITY TRENCH COMPACTION

ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TEX-113-E, TEX-114-E, TEX-115-E. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE CITY OF NEW BRAUNFELS STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF NEW BRAUNFELS STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

DEEP TRENCH COMPACTION TESTING

CITY REQUIREMENTS FOR TESTING SHALL BE ADHERED TO, IN CASES WHERE TRENCH DEPTHS DO NOT ALLOW TECHNICIANS ACCESS, METHODS FOR TESTING SHALL BE PROPOSED AND APPROVED PRIOR TO CONSTRUCTION COMMENCING.

THIS PROJECT INCLUDES UTILITY INSTALLATIONS GREATER THAN 5- FEET IN DEPTH LOCATED IN PUBLIC RIGHT-OF-WAY OR EASEMENTS. DEEP TRENCHES POSE COMPACTION TESTING AND CONSTRUCTION CHALLENGES AND CITY METHODS FOR TESTING AND COMPACTION MAY NOT BE ACHIEVABLE.

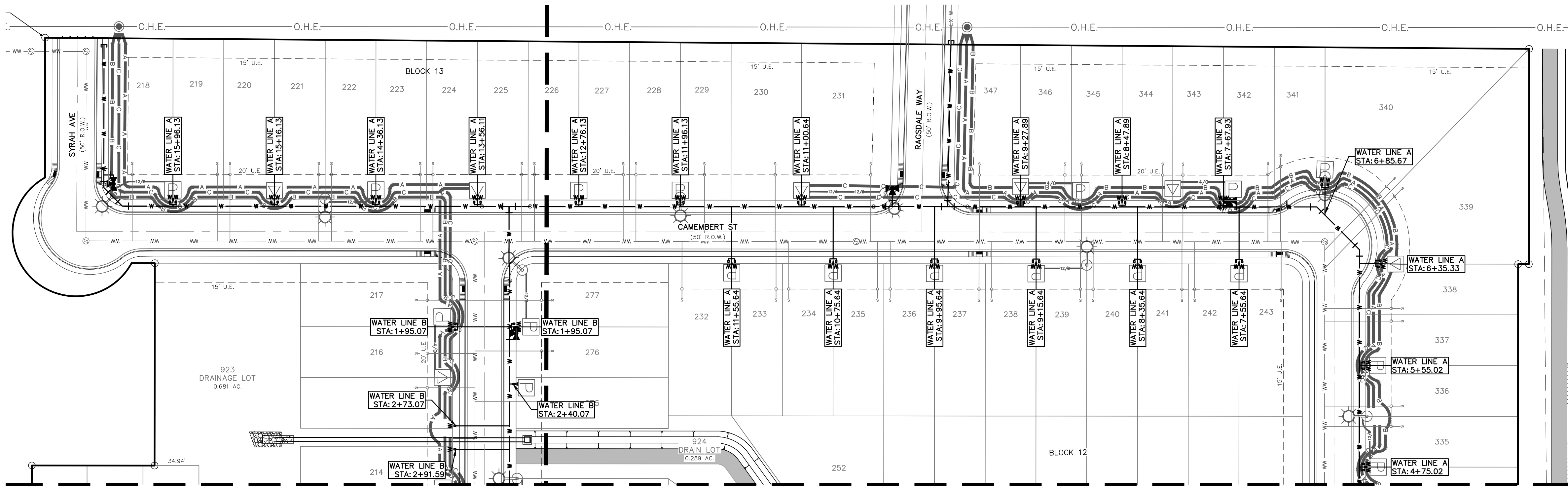


LEGEND

— 700 —	EXISTING CONTOURS
— 700 —	PROPOSED CONTOURS
B.L.	BUILDING SETBACK LINE
U.E.	UTILITY EASEMENT
D.E.	DRAINAGE EASEMENT
— W — W —	EXISTING WATER LINE
— W — W —	PROPOSED WATER LINE
— W — W —	PROPOSED WATER SERVICE
⊗	UTILITY CROSSING

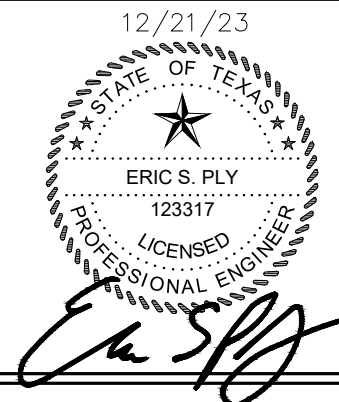
UTILITY NOTES:

1. ALL UTILITIES TO BE CONSTRUCTED PRIOR TO THE STREETS.
2. NO VALVES, HYDRANTS, ETC. SHALL BE CONSTRUCTED WITHIN CURBS, RAMPS, SIDEWALKS OR DRIVEWAYS.
3. ALL WATER SERVICES ARE TO BE 1-INCH SERVICES AND METERS LOCATED 1-FOOT FROM THE PROPERTY LINE.
4. ALL DIMENSIONS ARE FROM FACE OF CURB.
5. REFER TO COVER SHEET FOR BENCHMARK INFORMATION.
6. MACHINE CHLORINATION SHALL BE USED FOR DISINFECTION.
7. MOISTURE DENSITY COMPACTION TESTING FREQUENCY-WATER MAIN TRENCHES REQUIRED EVERY 300 LF FOR EACH VERTICAL FOOT OF COMPACTED BACKFILL SERVICES RANDOMLY SELECTED AS REQUIRED BY GVSUD INSPECTOR.
8. ALL TESTING AND TEST REPORTS SHALL BE COORDINATED WITH GVSUD INSPECTOR BY THE CONTRACTOR.



MATCHLINE (SEE SHEET C7.2)

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



WATER LATERALS
(2 OF 2)

VOGES SUBDIVISION
UNIT 3

NO.	REVISION	DESCRIPTION	REVISION DATE

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C7.3

REFER TO THE COVER SHEET
FOR BENCHMARK INFORMATION.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.

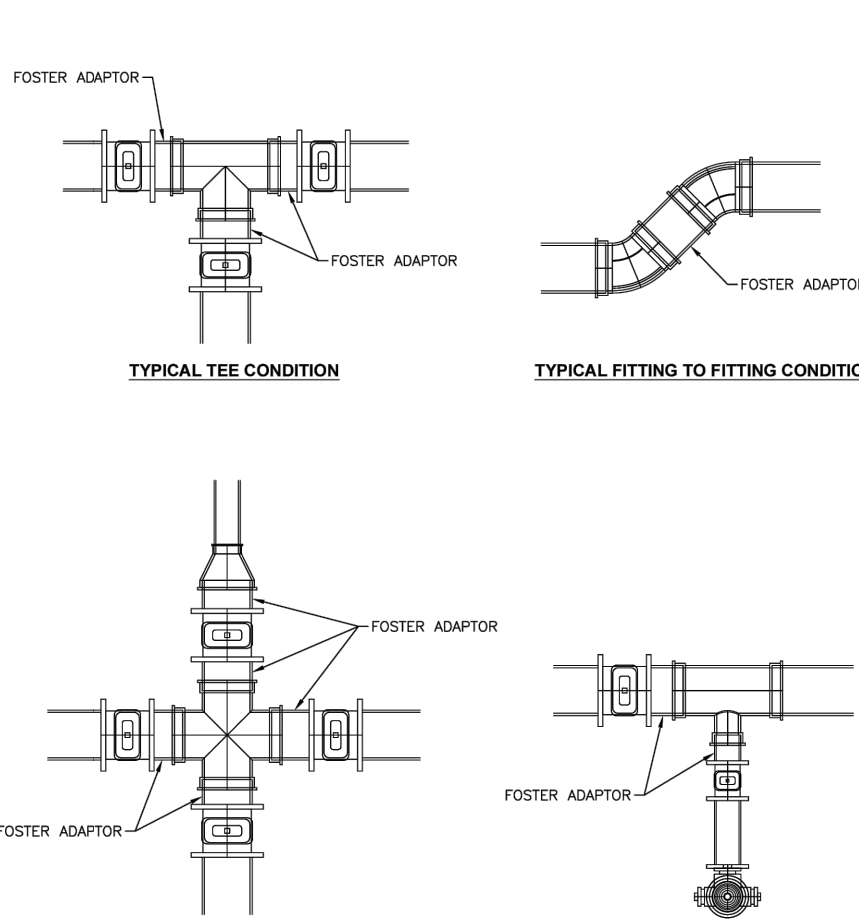
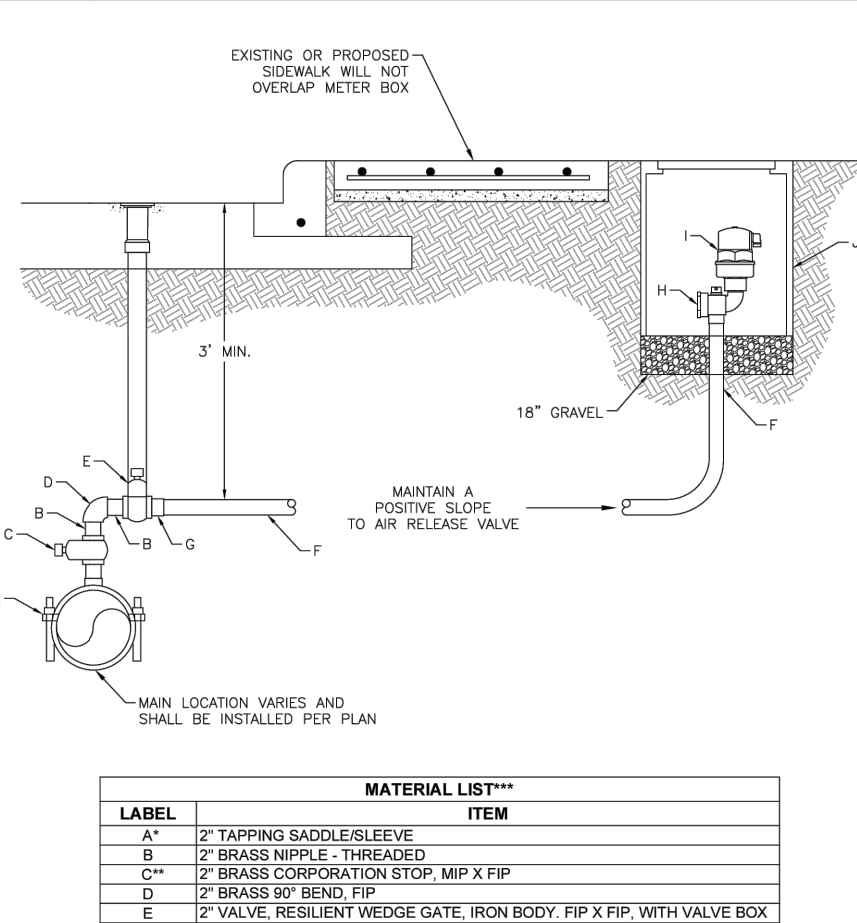
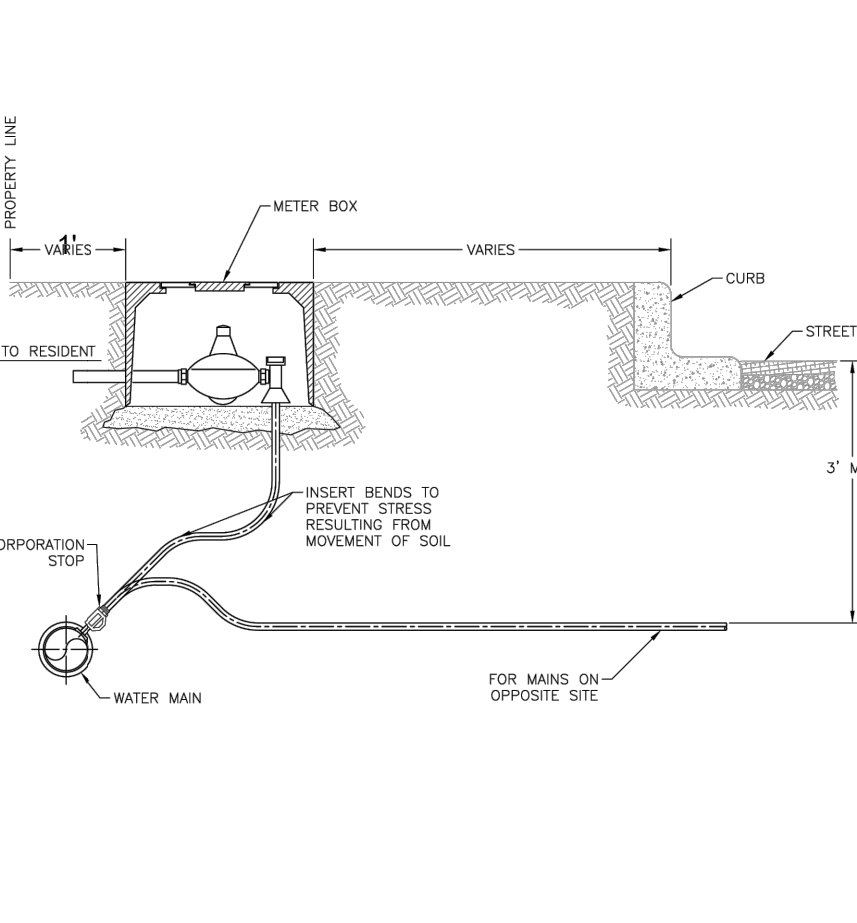
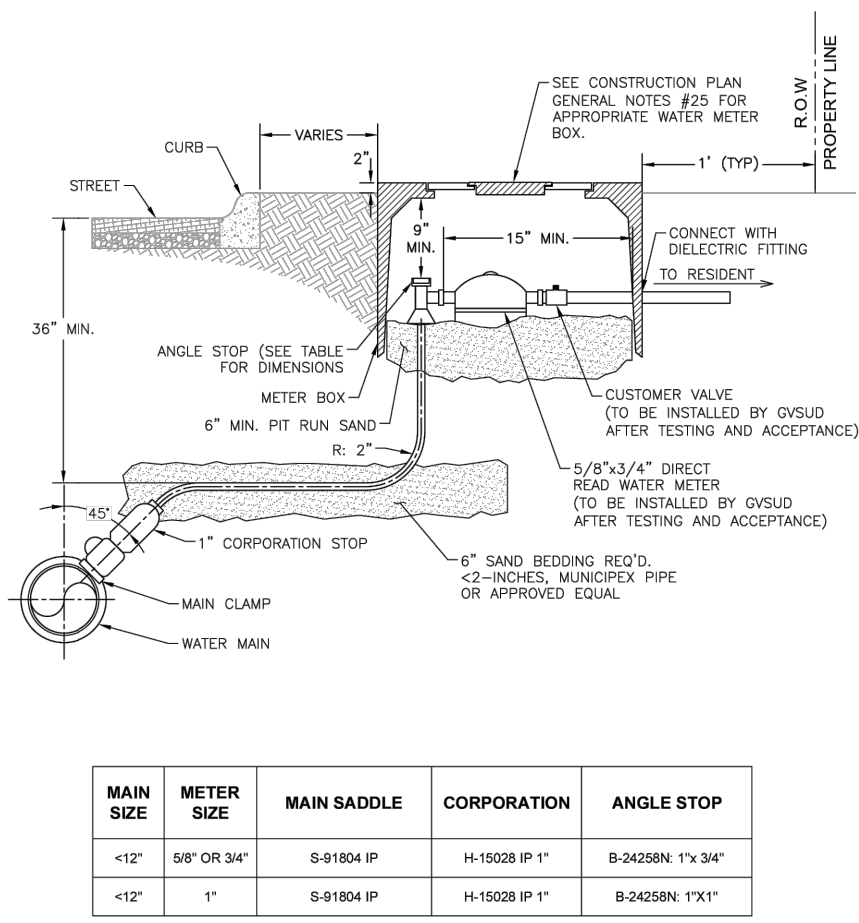
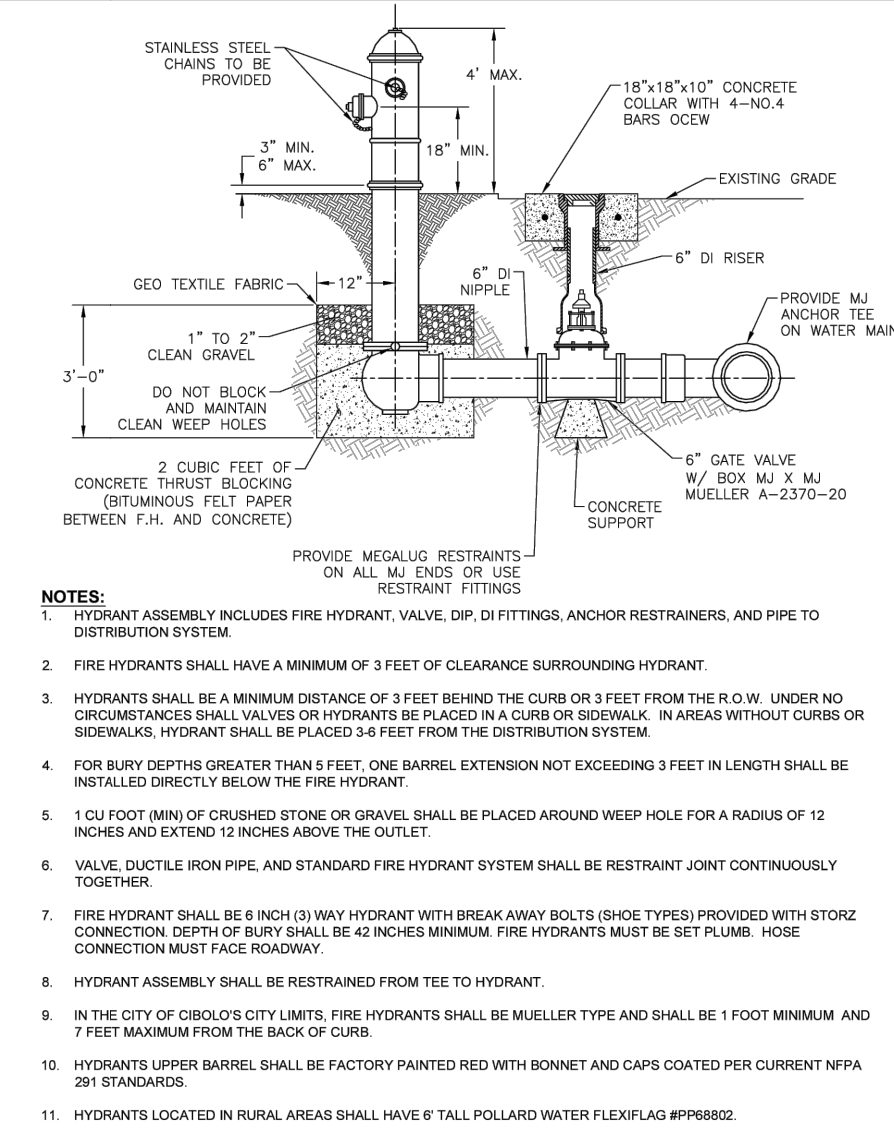
RESTRAINED LENGTH FOR TEES				
PIPE SIZE (INCHES)	BRANCH SIZE (INCHES)	LENGTH IN FEET, RUN (FEET)	RESTRAINED LENGTH IN FEET, WHEN TEST PRESSURE = 200 PSI	
6	4	0	0	
6	4	0	7	
6	4	0	1	
6	6	0	59	
6	6	0	35	
6	6	0	11	
6	4	0	42	
8	4	0	1	
8	6	0	59	
8	6	0	35	
8	6	0	77	
8	8	0	35	
8	8	0	30	
8	8	0	6	
12	4	0	42	
12	4	0	1	
12	6	0	59	
12	6	0	35	
12	6	0	77	
12	8	0	42	
12	8	0	35	
12	8	0	1	
12	10	0	109	
12	10	0	85	
12	10	0	35	
12	12	0	35	
16	4	0	42	
16	4	0	1	
16	6	0	59	
16	6	0	35	
16	6	0	78	
16	8	0	35	
16	8	0	30	
16	8	0	110	
16	10	0	35	
16	10	0	30	
16	10	0	142	
16	12	0	35	
16	12	0	30	
16	12	0	135	
16	16	0	134	
16	16	0	35	
16	16	0	30	
24	24	0	103	
24	24	0	136	
24	24	0	103	
24	24	0	70	

NOTES:

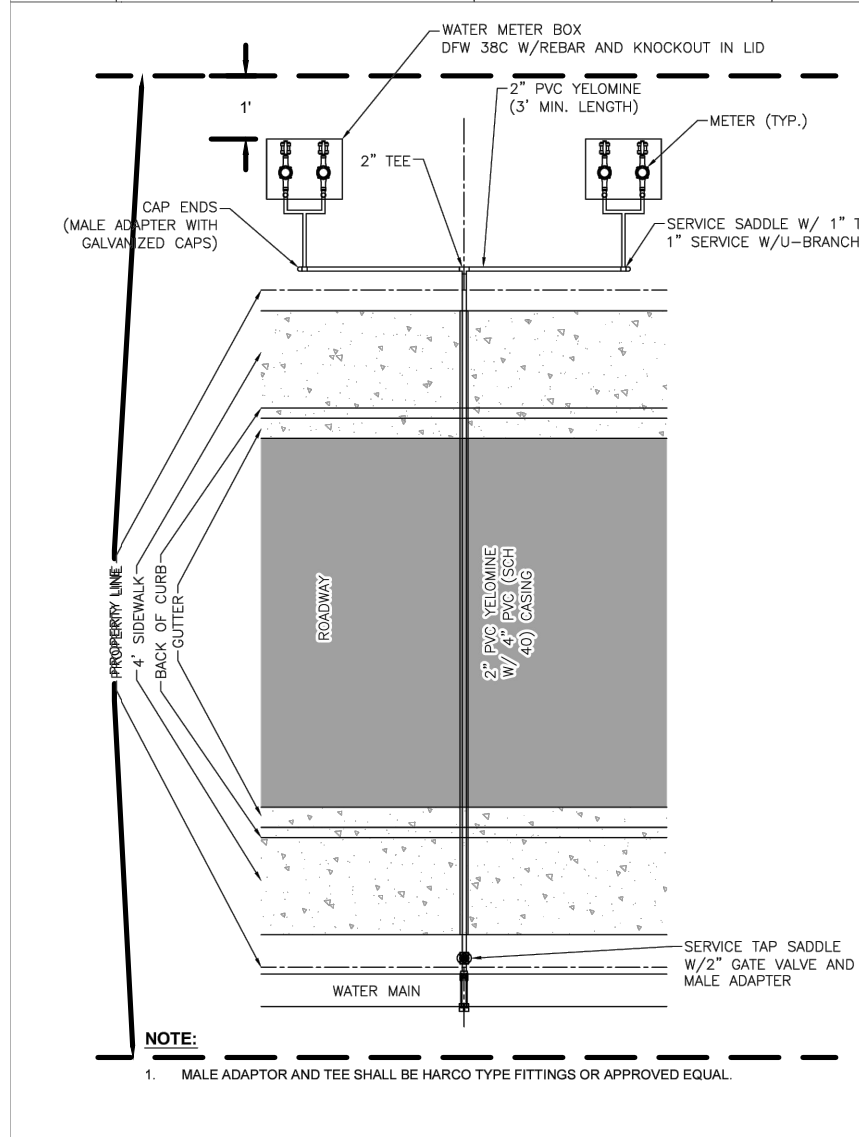
1. RESTRAINED LENGTH CALCULATIONS FOR P.V.C. PIPE BEDDED IN COMPACTED GRANULAR MATERIAL, EXTENDING TO THE TOP OF THE PIPE. NATIVE SOIL MATERIAL IS ASSUMED TO BE NORMAN CLAY OF HIGH PLASTICITY. DEPTH OF BURY IS ASSUMED TO BE 4 FEET.

2. THESE CALCULATIONS ARE PROVIDED FOR REFERENCE. THE RESTRAINED LENGTH SHALL BE DESIGNED BASED UPON THE CONDITIONS ENCOUNTERED DURING INSTALLATION.

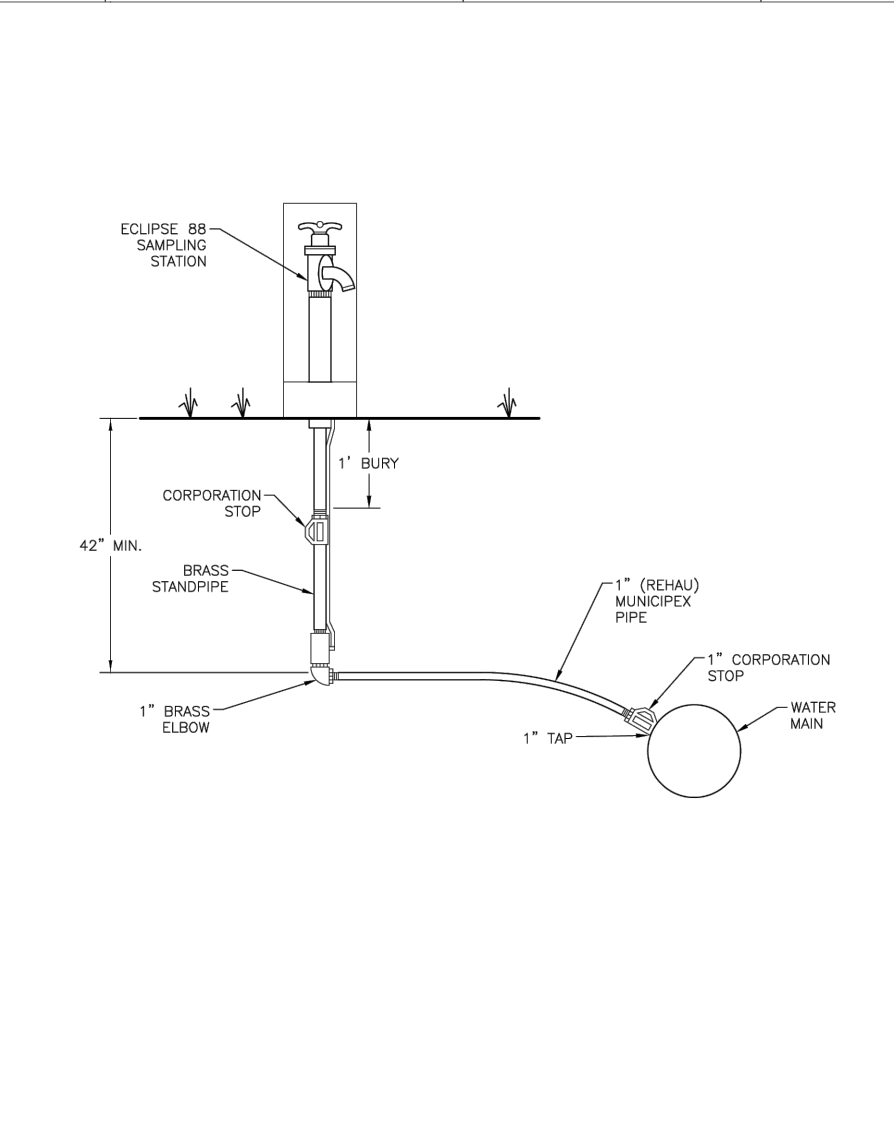
3. CONTRACTOR SHALL RESTRAIN ALL JOINTS WITHIN THE REQUIRED RESTRAINT DISTANCE PLUS THE NEXT JOINT OUTSIDE THE REQUIRED RESTRAINT DISTANCE.



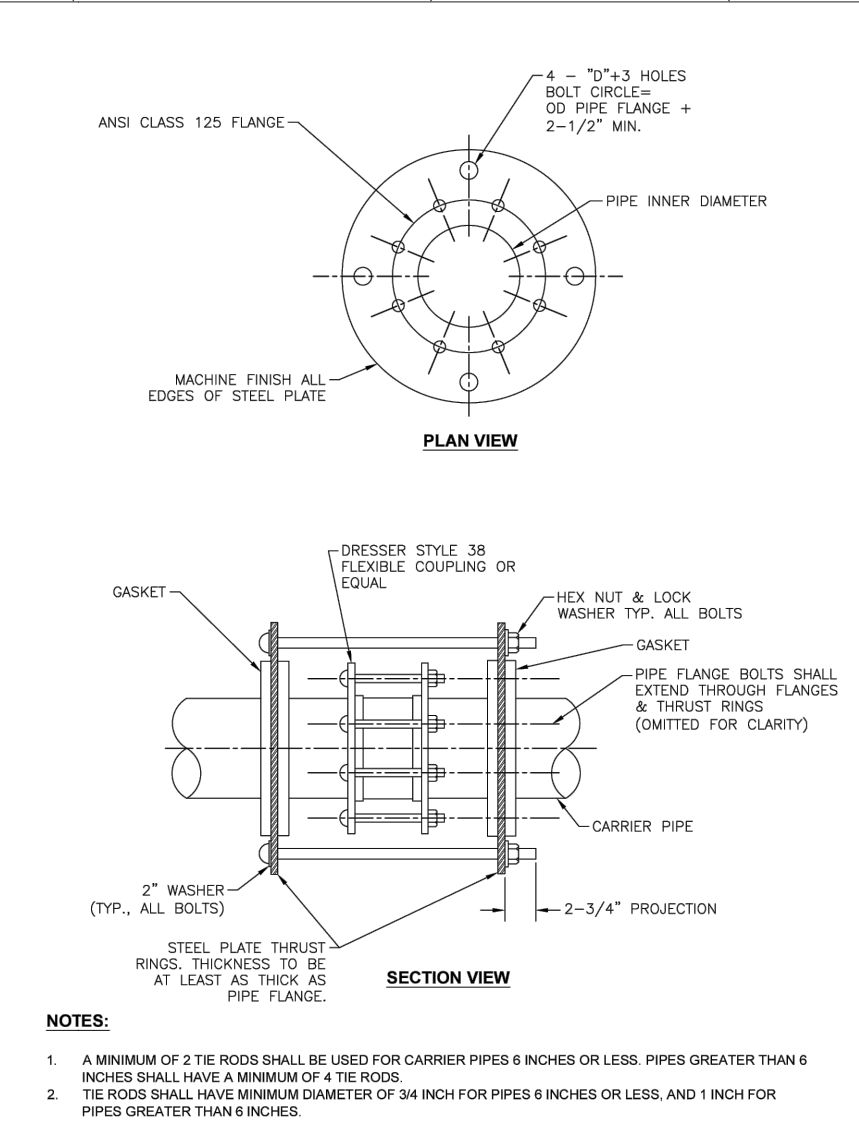
GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	TEE RESTRAINED LENGTH DESIGN	DETAIL NO. W-21
REVISED: AUGUST 2023	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	



GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	STANDARD HYDRANT ASSEMBLY INSTALLATION	DETAIL NO. W-22
REVISED: AUGUST 2023	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	



GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	STANDARD SERVICE CONNECTION	DETAIL NO. W-23
REVISED: AUGUST 2023	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	



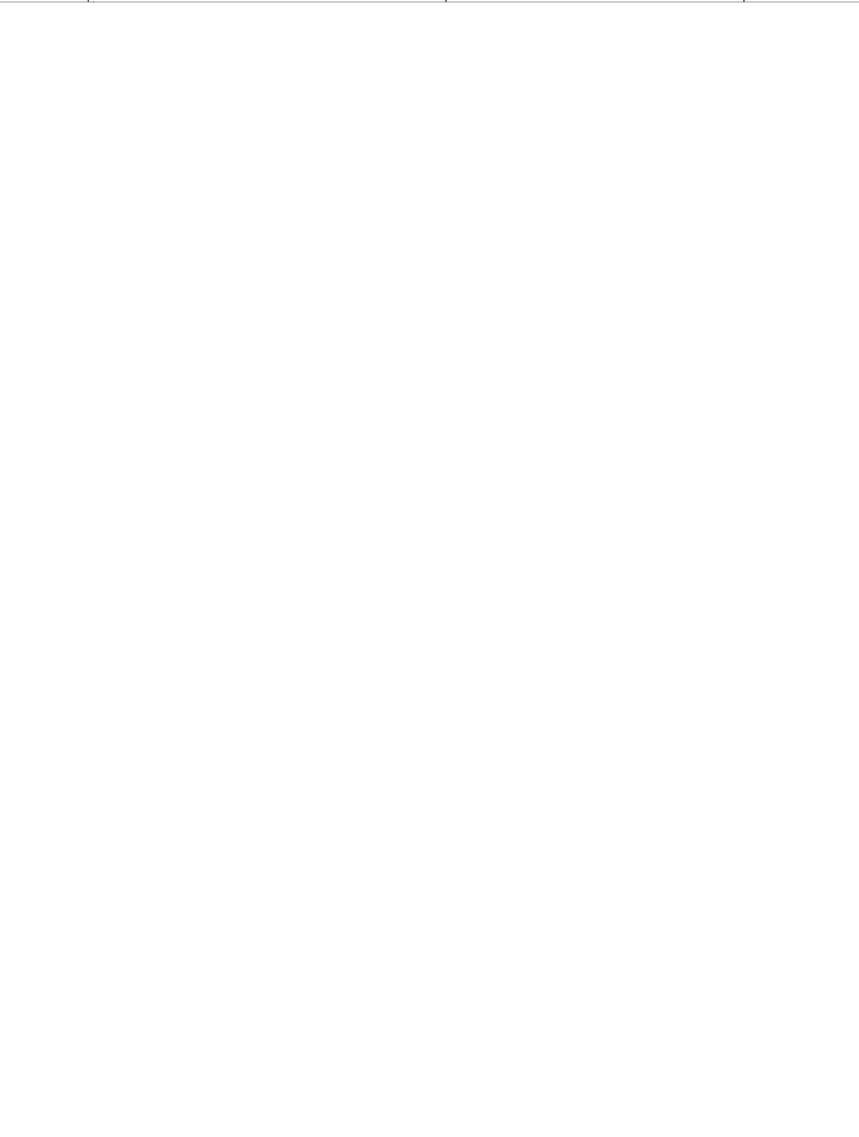
GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	TYPICAL SERVICE LOCATION DETAIL	DETAIL NO. W-24
REVISED: AUGUST 2023	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	



GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	2" AIR RELEASE VALVE	DETAIL NO. W-30
REVISED: AUGUST 2023	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	



GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	MECHANICAL JOINT ADAPTOR DETAIL	DETAIL NO. W-31
REVISED: AUGUST 2023	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	



GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	MULTI-DWELLING UNIT WATER SERVICE DETAIL	DETAIL NO. W-32
REVISED: AUGUST 2023	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	



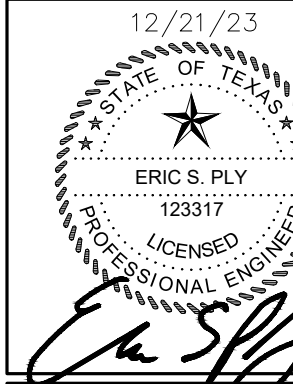
GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	WATER SAMPLING STATION DETAIL	DETAIL NO. W-33
REVISED: AUGUST 2023	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	



GREEN VALLEY SPECIAL UTILITY DISTRICT STANDARD DETAILS	FLEXIBLE COUPLING AND THRUST RESTRAINT HARNESS DETAIL	DETAIL NO. W-34
REVISED: AUGUST 2023	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	



290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



WATER DETAILS (2 OF 2)

VOGES SUBDIVISION
UNIT 3

NO.	REVISION DESCRIPTION	REVISION DATE
1	UPDATED OVSUD DETAILS	10/25/2023

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C7.5

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 AREA TO DETERMINE THE APPROPRIATE PROTECTION SYSTEMS, TRENCH 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 THE PROTECTION OF ALL PERSONS AND PROPERTY FROM THE EFFECTS OF TRENCHING AND TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH THE FOLLOWING: (A) SUPERVISING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

MATCHLINE (SEE SHEET C8.1)

1. ALL UTILITIES TO BE CONSTRUCTED & TESTED PRIOR TO THE STREETS.
2. NO VALVES, HYDRANTS, ETC. SHALL BE CONSTRUCTED WITHIN CURBS, SIDEWALKS OR DRIVEWAYS.
3. ALL SEWER PIPE ASTM D3034(TYPICAL OF OTHER SHEETS) (115 PSI) SDR 26 UNLESS CALLED OUT OTHERWISE.
4. REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.
5. ALL WATER CROSSINGS INCLUDING FIRE HYDRANT LEADS, WHITE COLOR GASKETED ASTM D2241 SDR 26 PIPE AND FITTINGS SHALL BE USED FOR MAINS AND LATERALS.
6. REFER TO ALL GBA NOTES ON SHEET C0.1.

20' UTILITY EASEMENT

36" MIN

GVEC DRY UTILITIES

2' CURB

50'

31'

30'

4'

5.5'

2" BINDER TYPE 'D' HMAC

10" AGGREGATE BASE

TENSAR GEOGRID TX-130S

6" LIME STABILIZED SUBGRADE

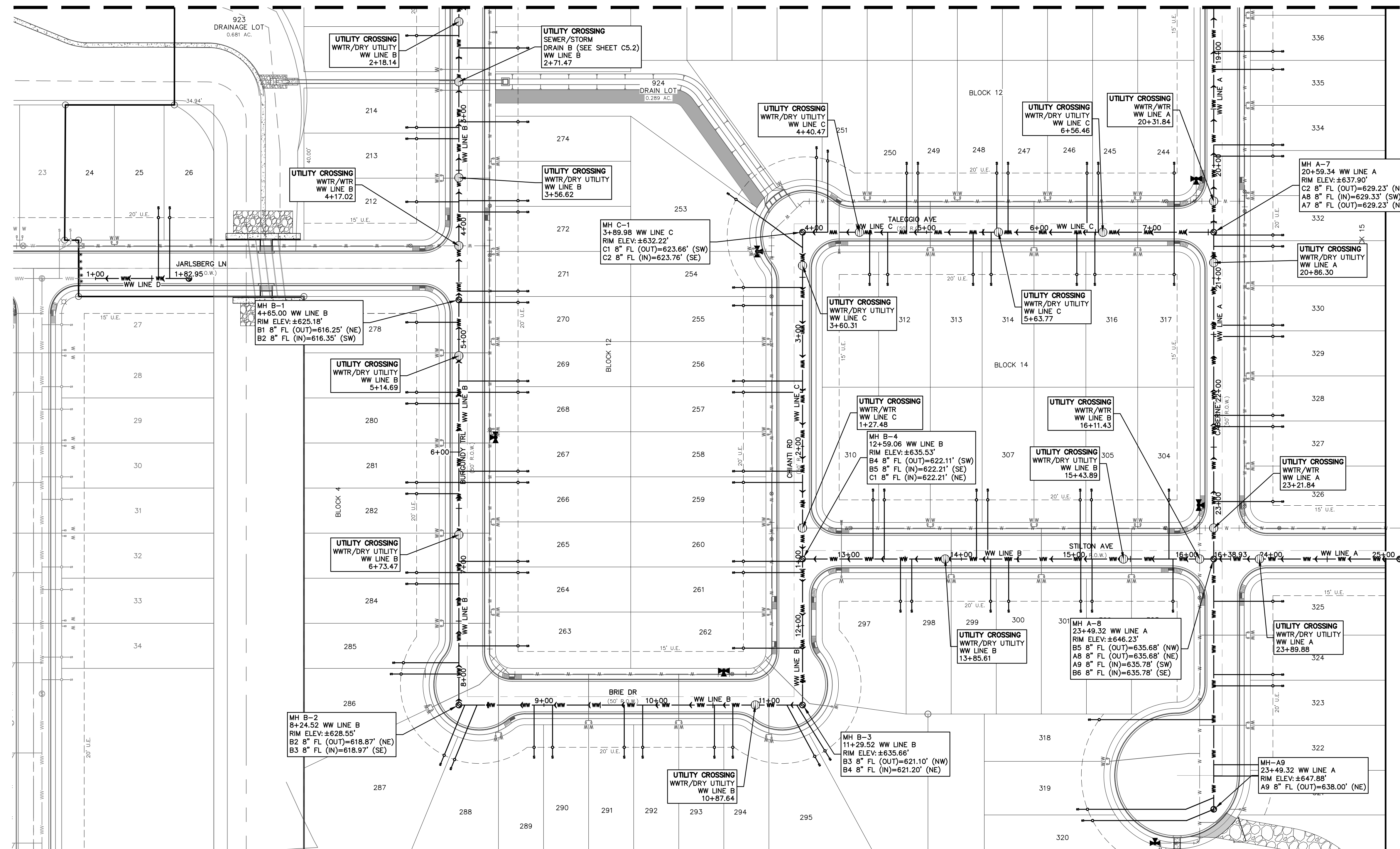
8" WATER LINE

8" WASTEWATER LINE

7.5'

EXTEND AGGREGATE AND SUBGRADE 1' BEYOND BACK OF CURB

1. ALL UTILITIES TO BE CONSTRUCTED PRIOR TO THE STREETS.
2. NO VALVES, HYDRANTS, CLEANOUTS, ECT. SHALL BE CONSTRUCTED WITHIN CURBS, SIDEWALK OR DRIVEWAYS.



WIDTH
CMNT

SHEET
C8.0

CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES 48 HOURS PRIOR TO EXCAVATION:

GVSD (WATER)	(830) 914-2331
GUADALUPE-BLANCO RIVER AUTHORITY (SEWER)	(830) 379-5822
GVEC (ELECTRIC)	(830) 223-4832
TIME WARNER CABLE	(830) 625-3408
CENTERPOINT ENERGY (GAS)	(830) 643-6434
AT&T	(830) 303-1333
TEXAS ONE CALL SYSTEM	(800) 245-4545
ENERGY TRANSFER (PETROLEUM PIPELINE)	(210) 262-2486

C.P.E. LOCATOR

CALL CENTER POINT ENERGY LOCATOR AT 1-800-545-6005, 48HRS BEFORE BEGINNING ANY EXCAVATION. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CENTER POINT ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

TELEPHONE LOCATOR

THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48HRS PRIOR TO EXCAVATION AT 1-800-545-6005, CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY DURING CONSTRUCTION.

TRENCH EXCAVATION SAFETY 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 CONTRACTORS 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 EXCAVATIONS.

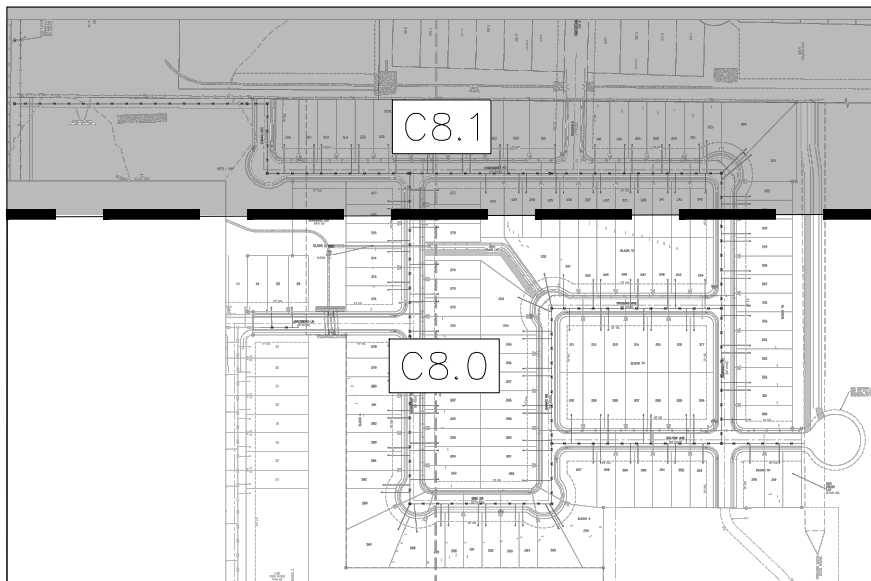
UTILITY TRENCH COMPACTION

ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TD-113-E, TD-114-E, TD-115-E. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE CITY OF NEW BRAUNFELS STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF NEW BRAUNFELS STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

DEEP TRENCH COMPACTION TESTING

CITY REQUIREMENTS FOR TESTING SHALL BE ADHERED TO, IN CASES WHERE TRENCH DEPTHS DO NOT ALLOW TECHNICIANS ACCESS, METHODS FOR TESTING SHALL BE PROPOSED AND APPROVED PRIOR TO CONSTRUCTION COMMENCING.

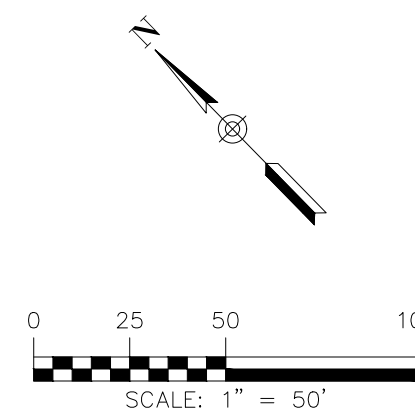
THIS PROJECT INCLUDES UTILITY INSTALLATIONS GREATER THAN 5-FEET IN DEPTH LOCATED IN PUBLIC RIGHT-OF-WAY OR EASEMENTS. DEEP TRENCHES POSE COMPACTION TESTING AND CONSTRUCTION CHALLENGES AND CITY METHODS FOR TESTING AND COMPACTION MAY NOT BE ACHIEVABLE. A UTILITY COMPACTION PLAN WILL BE REQUIRED AND MUST BE SUBMITTED FOR APPROVAL TO CITY PRIOR TO UTILITY INSTALLATION.



SHEET INDEX

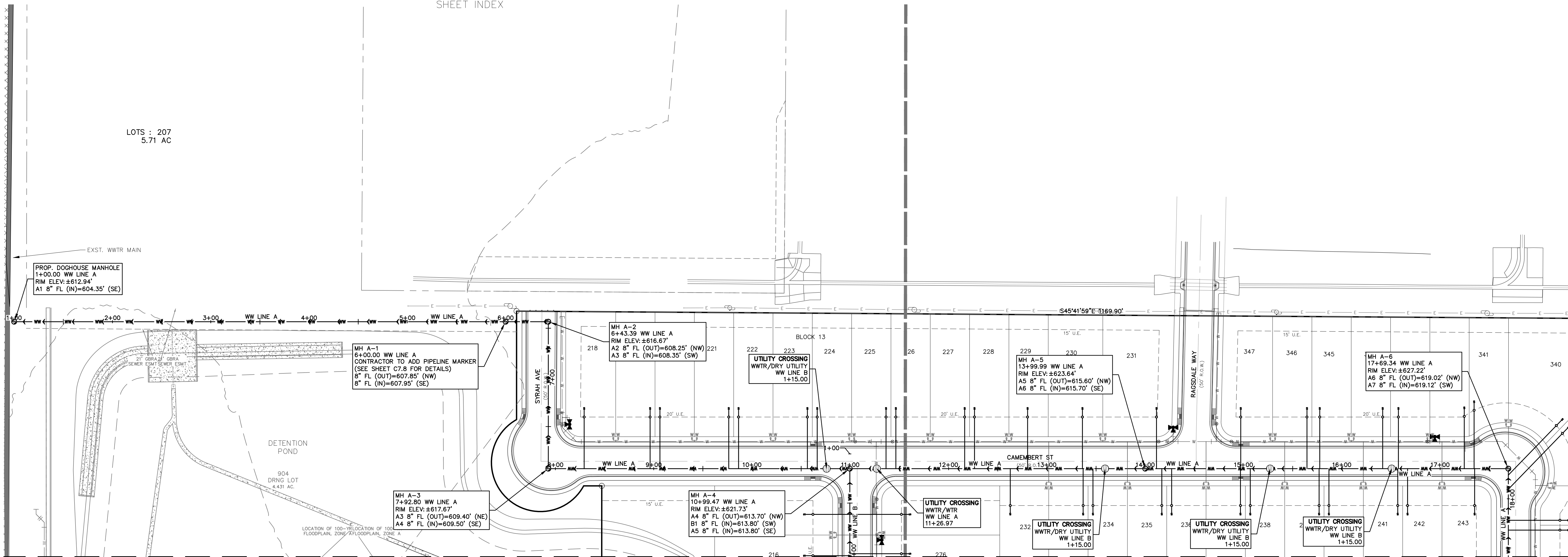
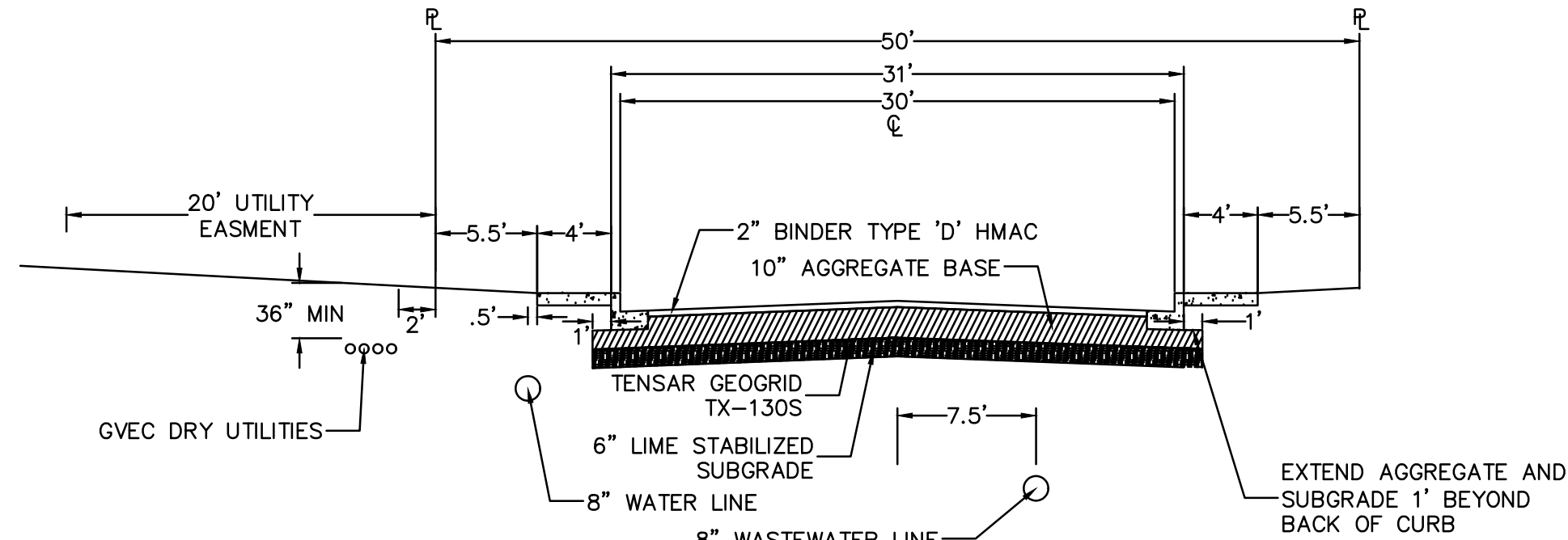
- UTILITY NOTES:
1. ALL UTILITIES TO BE CONSTRUCTED & TESTED PRIOR TO THE STREETS.
 2. NO VALVES, HYDRANTS, ETC. SHALL BE CONSTRUCTED WITHIN CURBS, SIDEWALKS OR DRIVEWAYS.
 3. ALL SEWER PIPE ASTM D3034(TYPICAL OF OTHER SHEETS) (115 PSI) SDR 26 UNLESS CALLED OUT OTHERWISE.
 4. REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.
 5. AT WATER CROSSINGS INCLUDING FIRE HYDRANT LEADS, WHITE COLOR GASKETED ASTM D2241 SDR 26 PIPE AND FITTINGS SHALL BE USED FOR MAINS AND LATERALS.
 6. REFER TO ALL GBRA NOTES ON SHEET C0.1.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.



- LEGEND
- | | |
|-----------|-----------------------------|
| — 700 — | EXISTING CONTOURS |
| — 700 — | EXISTING CONTOURS |
| B.L. | BUILDING SETBACK LINE |
| U.E. | UTILITY EASEMENT |
| D.E. | DRAINAGE EASEMENT |
| — EX WW — | EXISTING WASTEWATER LINE |
| ● | PROPOSED WASTEWATER MANHOLE |
| — | PROPOSED WASTEWATER SERVICE |
| ⊗ | UTILITY CROSSING |

- UTILITY NOTES:
1. ALL UTILITIES TO BE CONSTRUCTED PRIOR TO THE STREETS.
 2. NO VALVES, HYDRANTS, CLEANOUTS, ECT. SHALL BE CONSTRUCTED WITHIN CURBS, SIDEWALK OR DRIVEWAYS.



MATCHLINE (SEE SHEET C8.0)

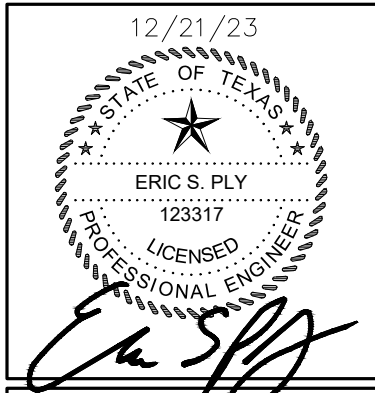
TRENCH EXCAVATION SAFETY PROTECTION

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 CONTRACTORS 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 EXCAVATIONS.

REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.

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290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600

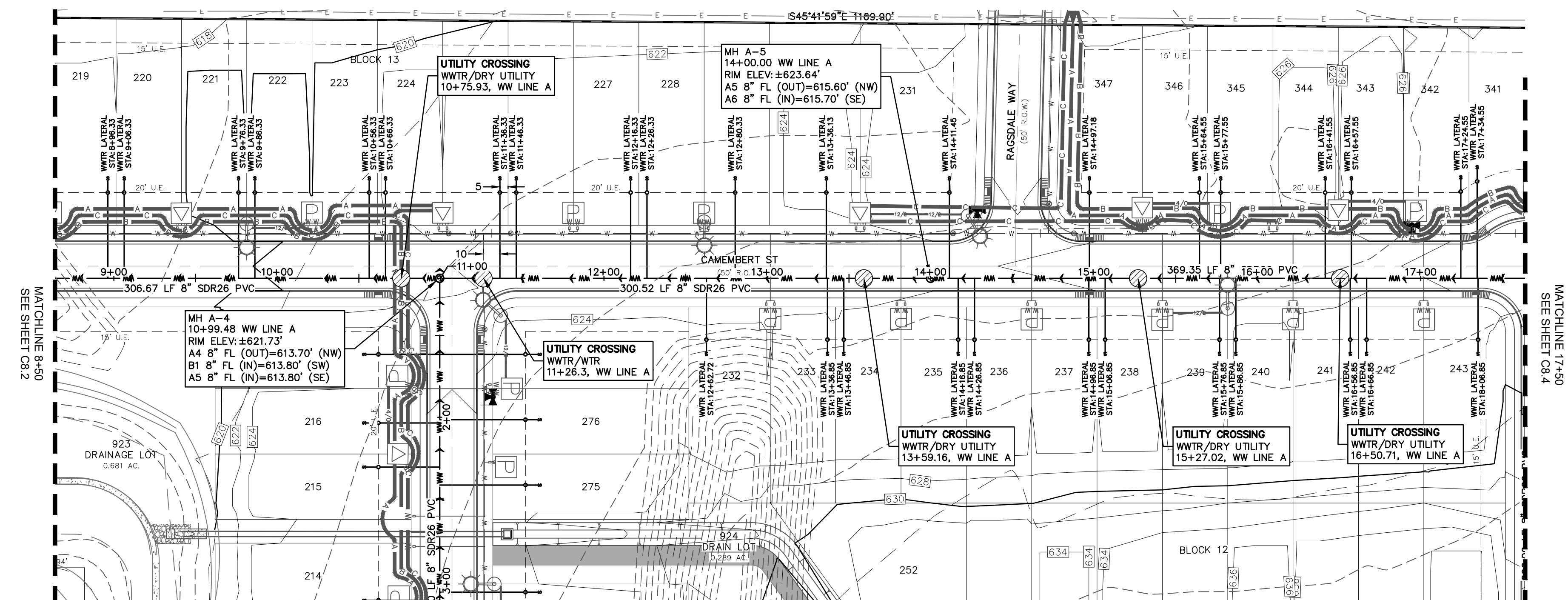


OVERALL WASTEWATER
PLAN (2 OF 2)
VOGES SUBDIVISION
UNIT 3

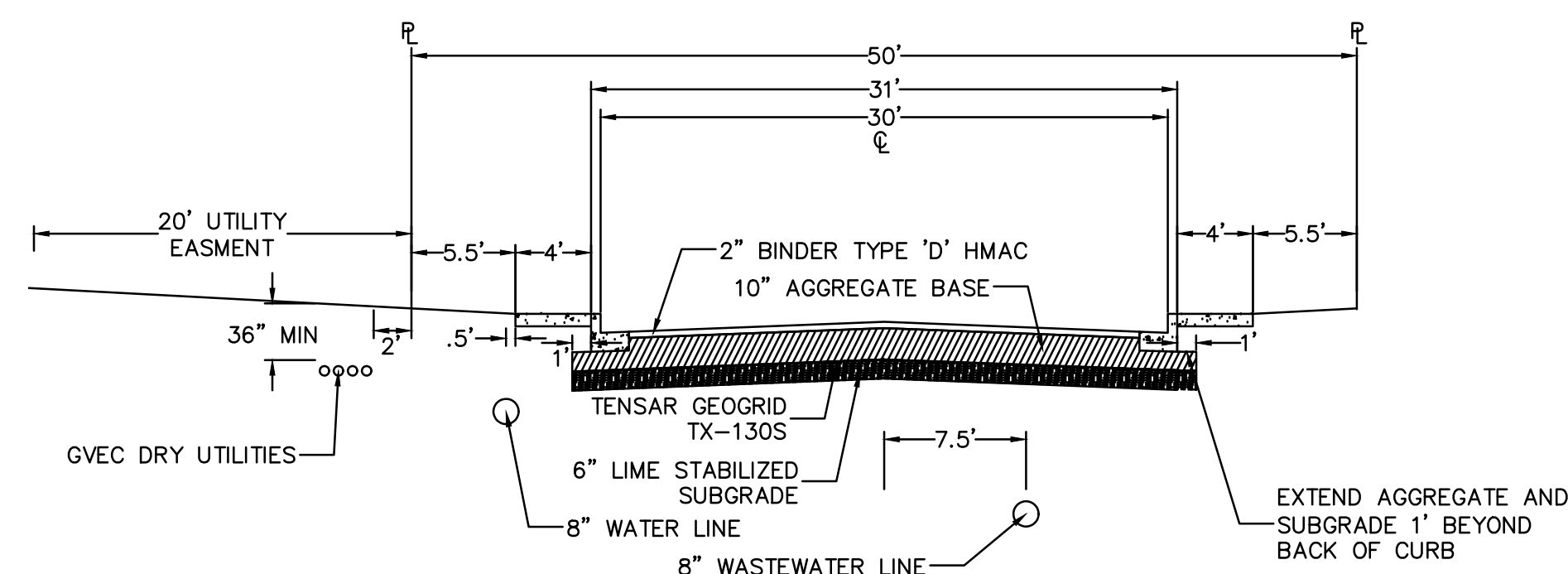
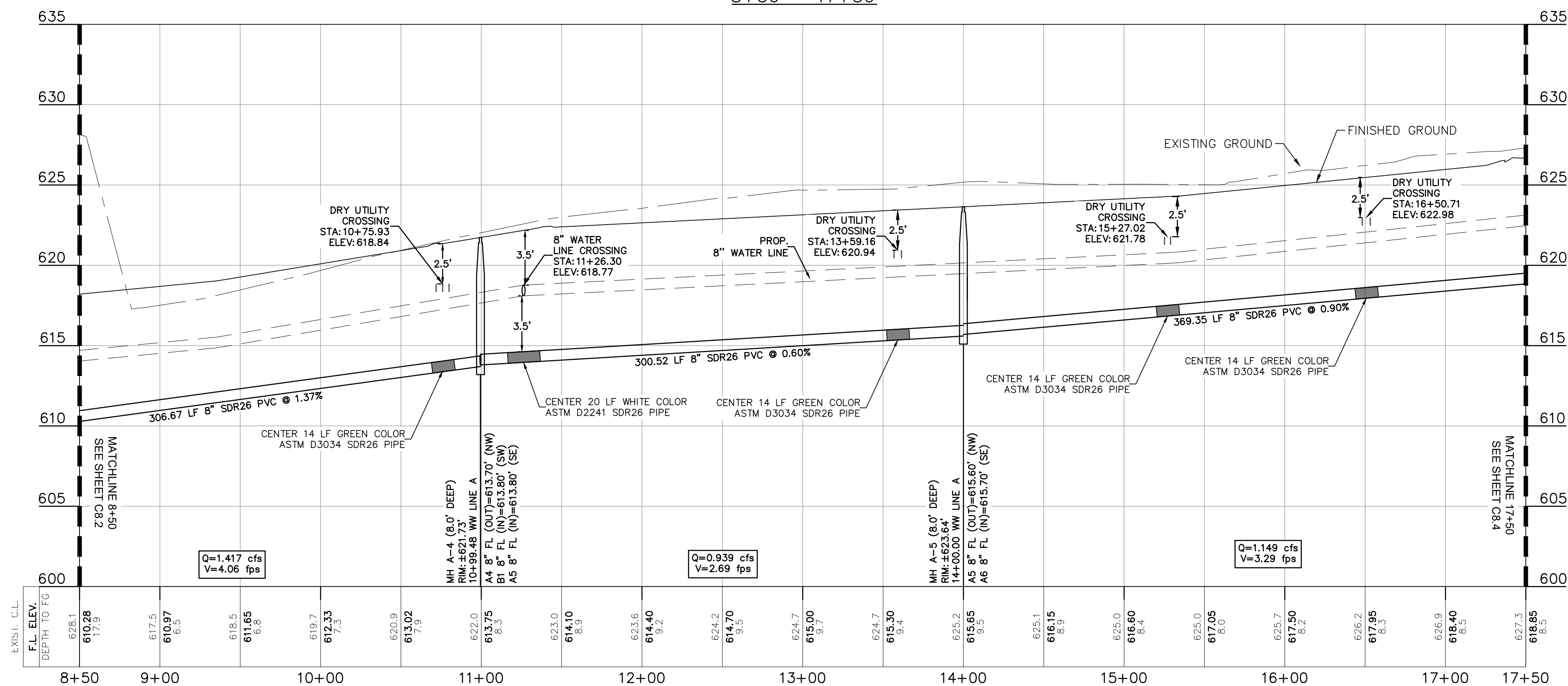
REVISION	DESCRIPTION	DATE
NO.		

DATE: DECEMBER 2023
DRAWN BY: MP
DESIGNED BY: MP
REVIEWED BY: ESP
HMT PROJECT NO.: 248.014

SHEET
C8.1

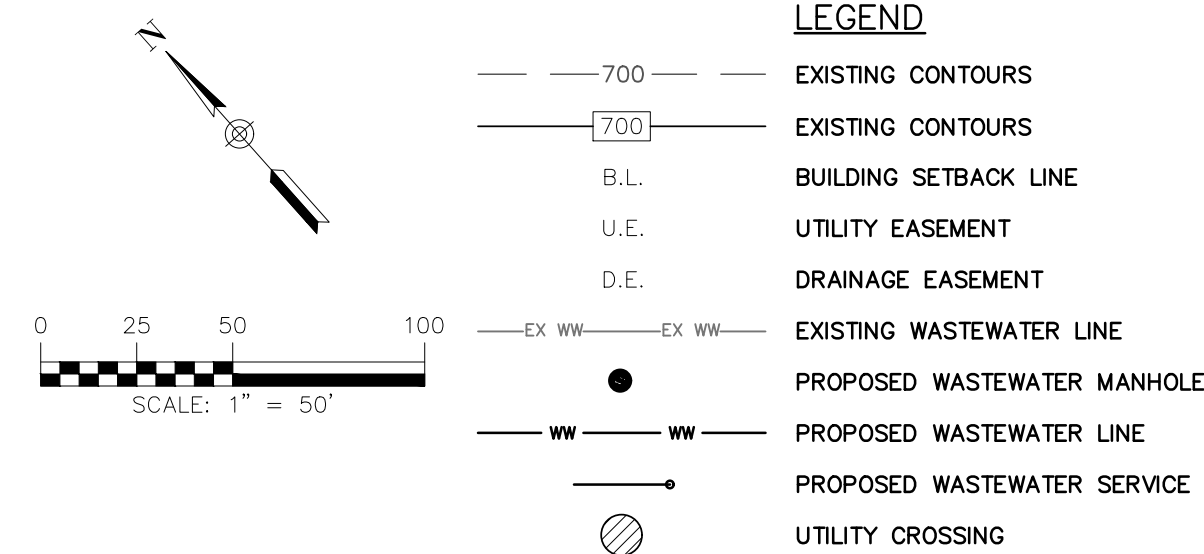


WW LINE A
8+50 - 17+50



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UTILITY NOTES:

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6. REFER TO ALL GSA NOTES ON SHEET CO.1.
7. INSTALL TYPE ONE PIPELINE MARKER WITH ALL MANHOLE OUTSIDE OF THE PUBLIC R.O.W.

CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES 48 HOURS PRIOR TO EXCAVATION:

GVSUD (WATER) (830) 914-2331

GUADALUPE-BLANCO RIVER AUTHORITY (SEWER) (830) 379-5822

GVEC (ELECTRIC) (830) 223-4832

TIME WARNER CABLE (830) 625-3408

CENTERPOINT ENERGY (GAS) (830) 643-6434

AT&T (830) 303-1333

TEXAS ONE CALL SYSTEM (800) 245-4545

ENERGY TRANSFER (PETROLEUM PIPELINE) (210) 262-2486

C.P.E. LOCATOR

CALL CENTER POINT ENERGY LOCATOR AT 1-800-545-6005, 48HRS BEFORE BEGINNING ANY EXCAVATION. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CENTER POINT ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

TELEPHONE LOCATOR

THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48HRS PRIOR TO EXCAVATION AT 1-800-545-6005,, CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY DURING CONSTRUCTION.

TRENCH EXCAVATION SAFETY 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. CONTRACTOR, CREW, AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT SHALL BE RESPONSIBLE FOR CONTRACTORS 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 STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT SHALL BE RESPONSIBLE FOR COMPLIANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND

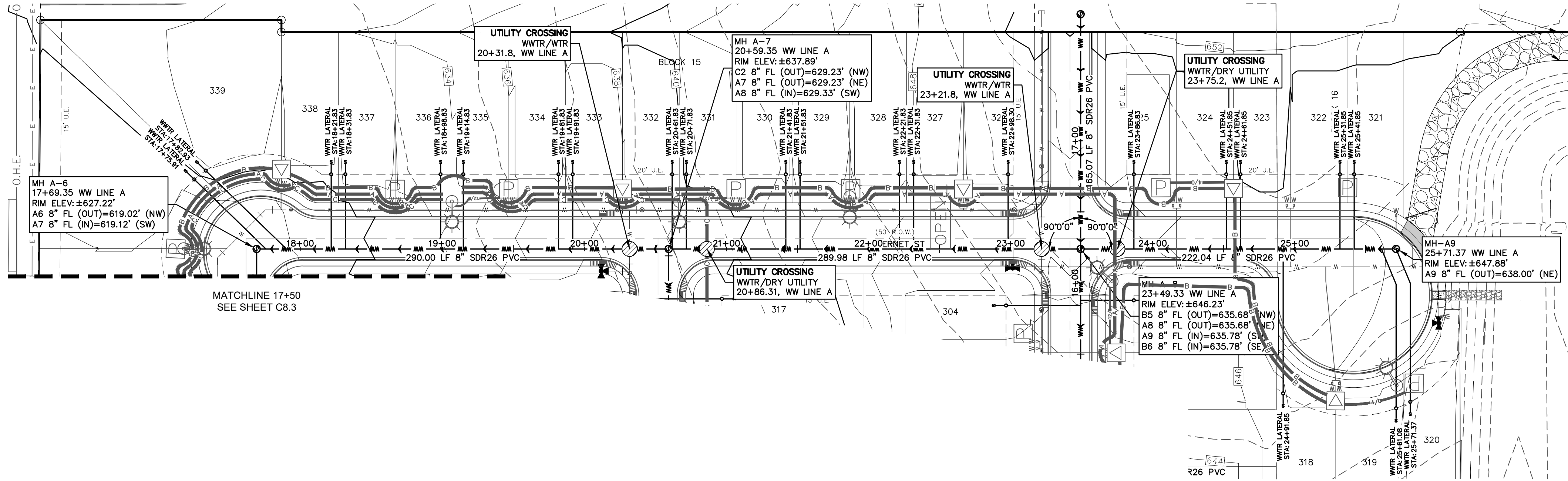
UTILITY TRENCH COMPACTION

ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH ALL TESTING PROCEDURES OF THE NEW BRUNSWICK DEPARTMENT OF TRANSPORTATION. TESTS SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER AND APPROVED BY THE CITY OF NEW BRUNSWICK STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF NEW BRUNSWICK STREET INSPECTOR WITH ALL TESTING RESULTS AND A STATEMENT OF THE PLACEMENT OF FILL MATERIAL. THIS STATEMENT HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

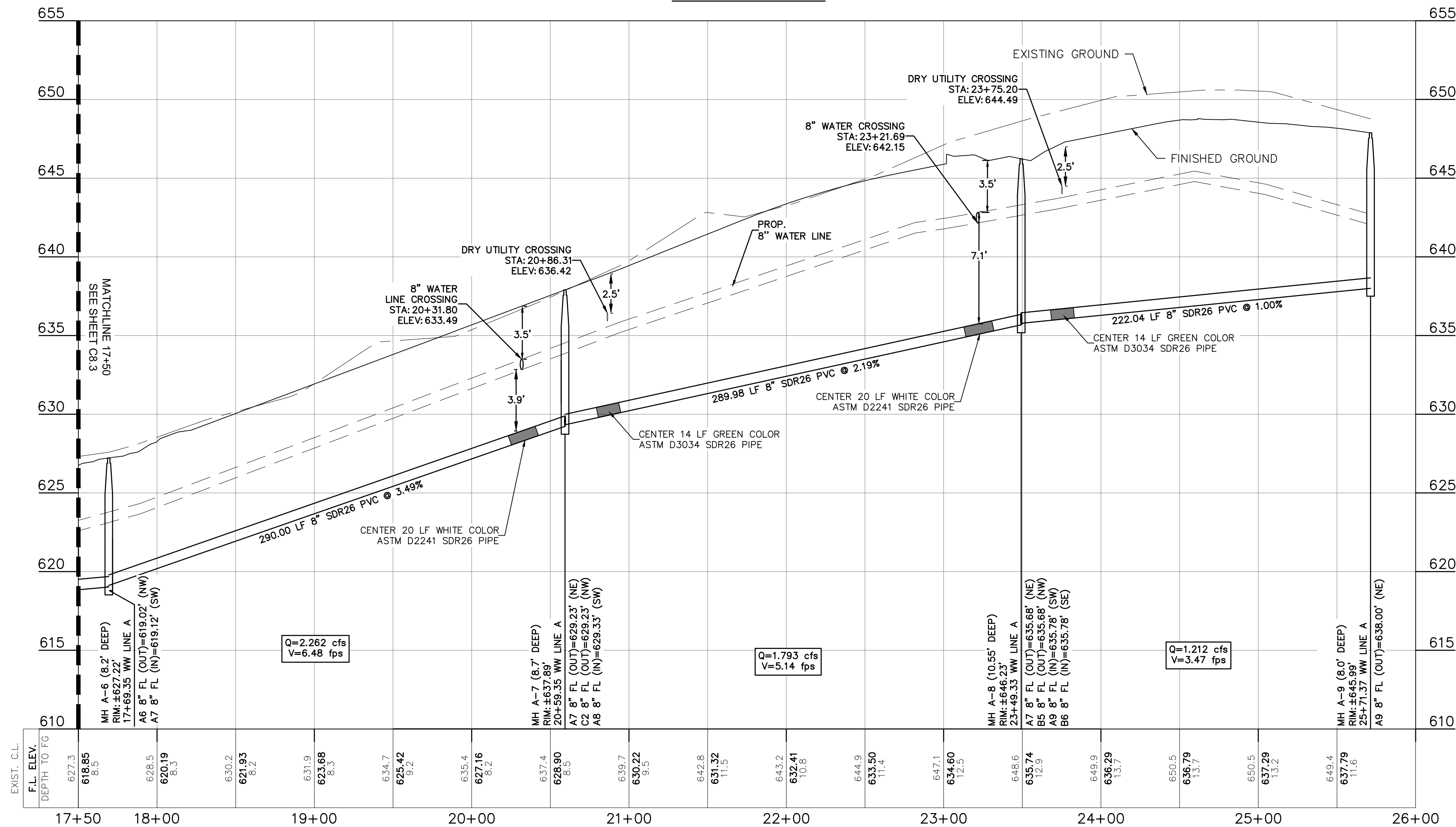
DEEP TRENCH COMPACTION TESTING

CITY REQUIREMENTS FOR TESTING SHALL BE ADHERED TO, IN CASES WHERE TRENCH DEPTHS DO NOT ALLOW TECHNICIANS ACCESS, METHODS FOR TESTING SHALL BE PROPOSED AND APPROVED PRIOR TO CONSTRUCTION COMMENCING.

THIS PROJECT INCLUDES UTILITY INSTALLATIONS GREATER THAN 5- FEET IN DEPTH LOCATED IN PUBLIC RIGHT-OF-WAY OR EASEMENTS. DEEP TRENCHES POSE COMPACTION TESTING AND CONSTRUCTION CHALLENGES AND CITY METHODS FOR TESTING AND COMPACTION MAY NOT BE ACHIEVABLE.



WW LINE A
17+50 - 26+00



CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES 48 HOURS PRIOR TO EXCAVATION:

GVSUD (WATER)	(830) 914-2331
GUADALUPE-BLANCO RIVER AUTHORITY (SEWER)	(830) 379-5822
GVEC (ELECTRIC)	(830) 223-4832
TIME WARNER CABLE	(830) 625-3408
CENTERPOINT ENERGY (GAS)	(830) 643-6434
AT&T	(830) 303-1333
TEXAS ONE CALL SYSTEM	(800) 245-4545
ENERGY TRANSFER (PETROLEUM PIPELINE)	(210) 262-2486
C.P.E. LOCATOR	

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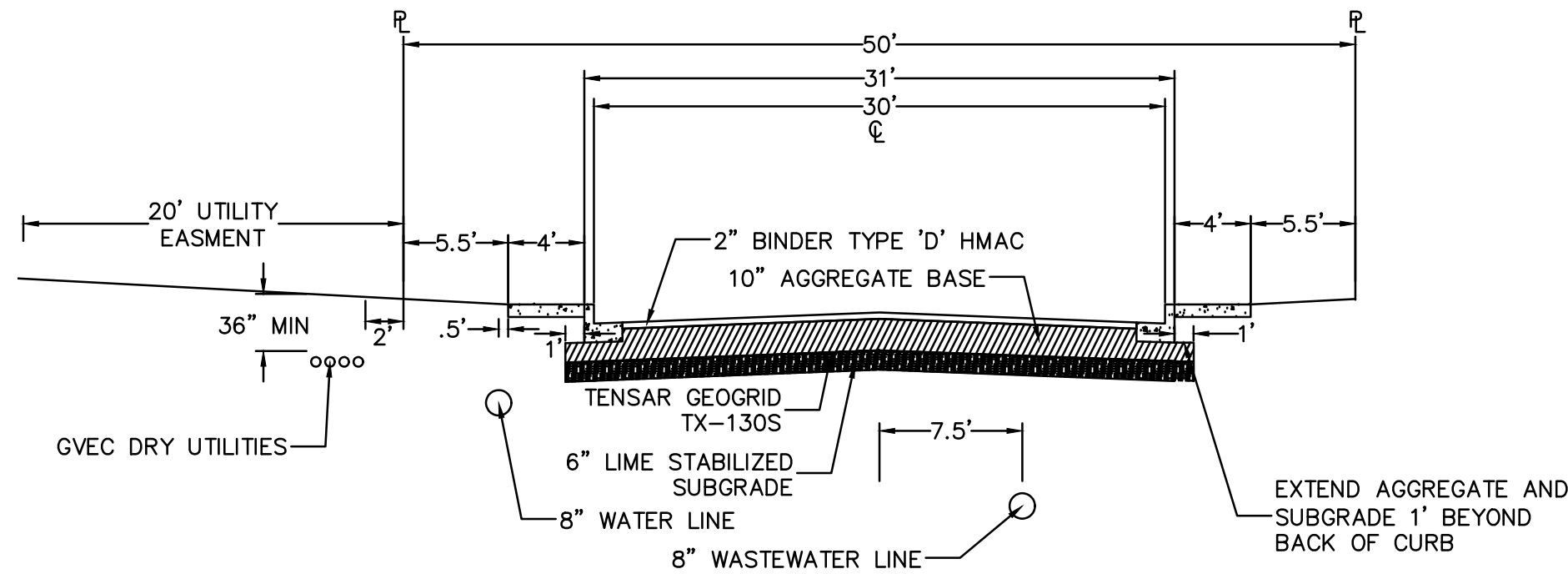
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DEEP TRENCH COMPACTION TESTING

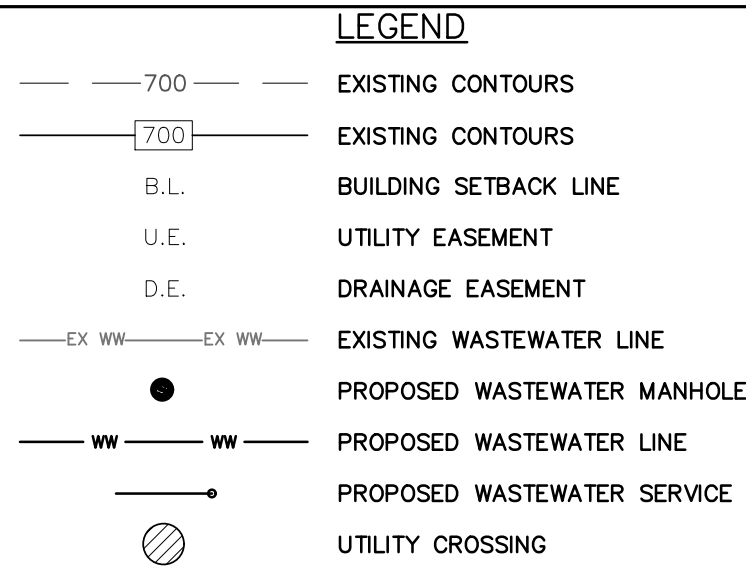
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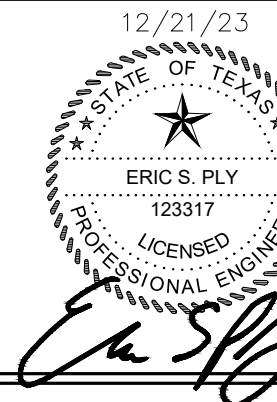
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290 S. CASTELL AVE., STE. 100
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TBPE FIRM F-10961
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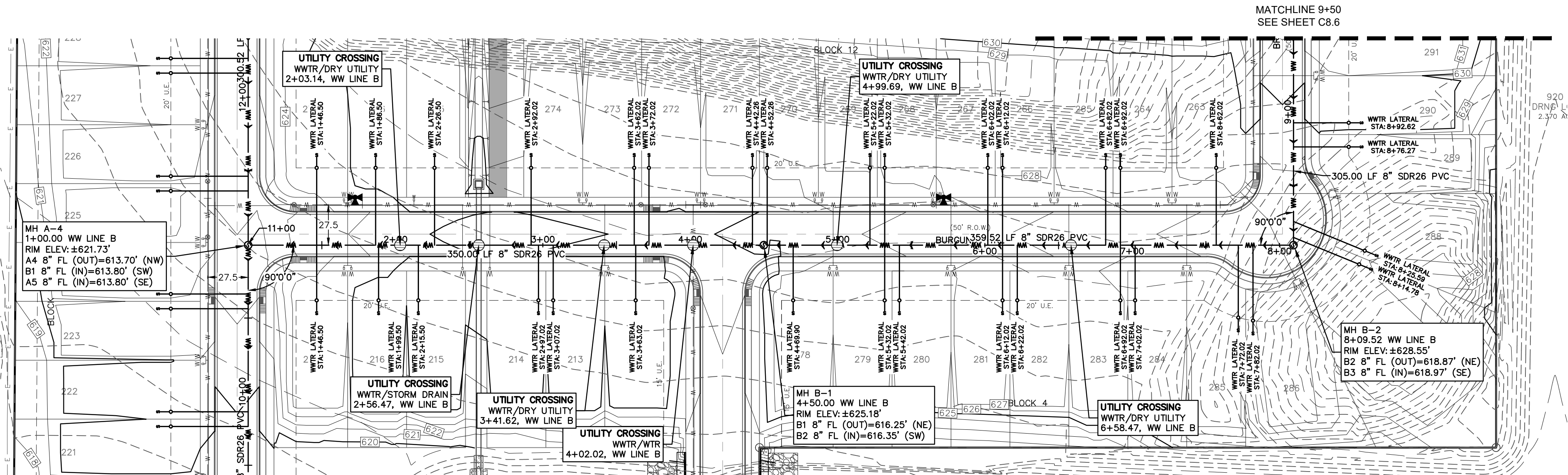
WW LINE A P&P (3 OF 3)

VOGES SUBDIVISION
UNIT 3

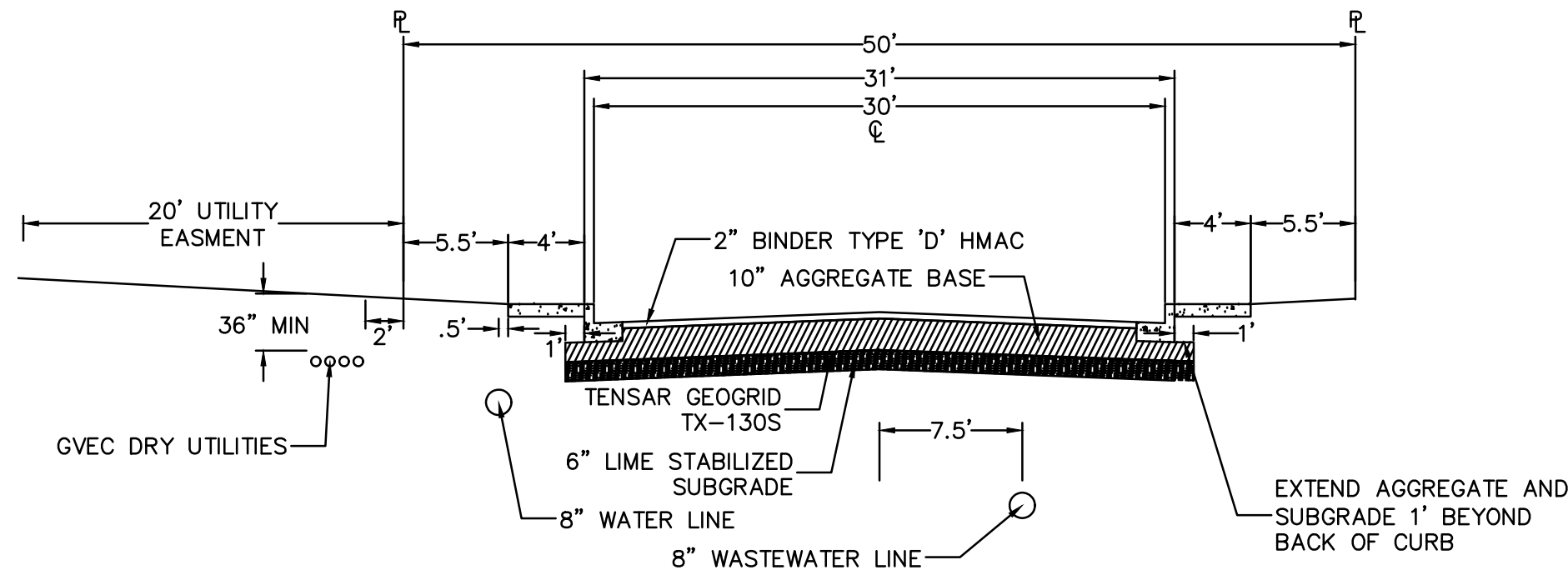
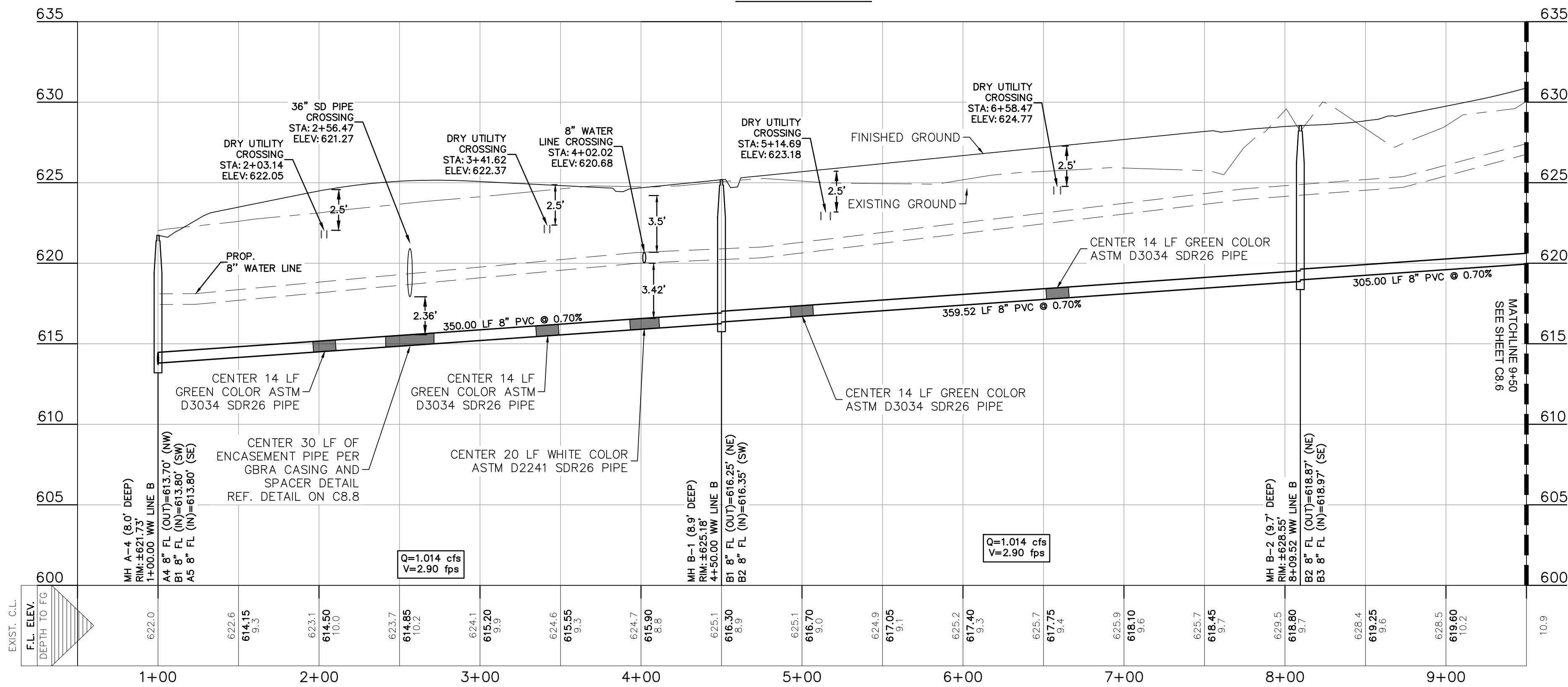
NO.	REVISION	DESCRIPTION	DATE

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C8.4



WW LINE B
0+50 - 9+50



REFER TO THE COVER SHEET
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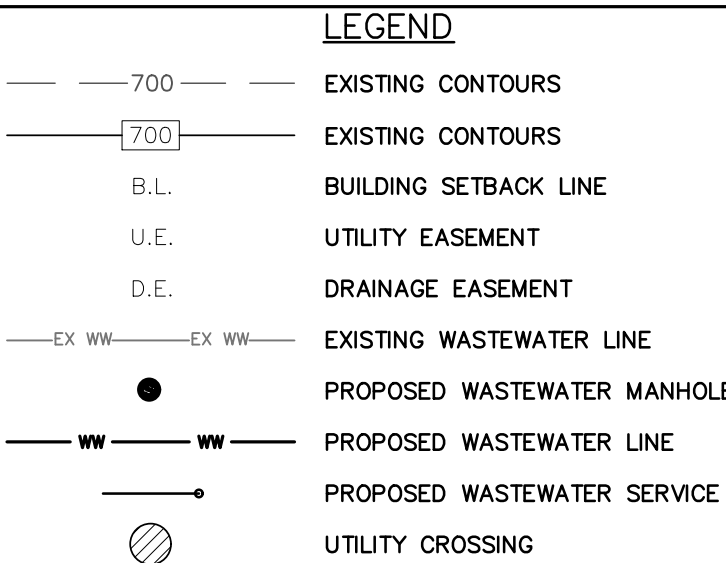
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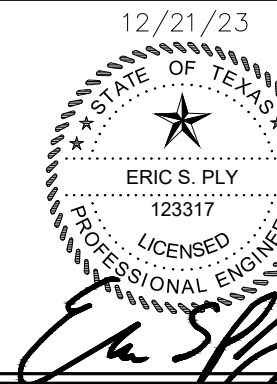
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5. AT WATER CROSSINGS INCLUDING FIRE HYDRANT ADS, WHITE COLOR CASING AND CASKETS ASTM D2241 SDR 26 PIPE AND FITTINGS SHALL BE USED FOR MAINS AND LATERALS.
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290 S. CASTELL AVE., STE. 100
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TBPE FIRM F-10961
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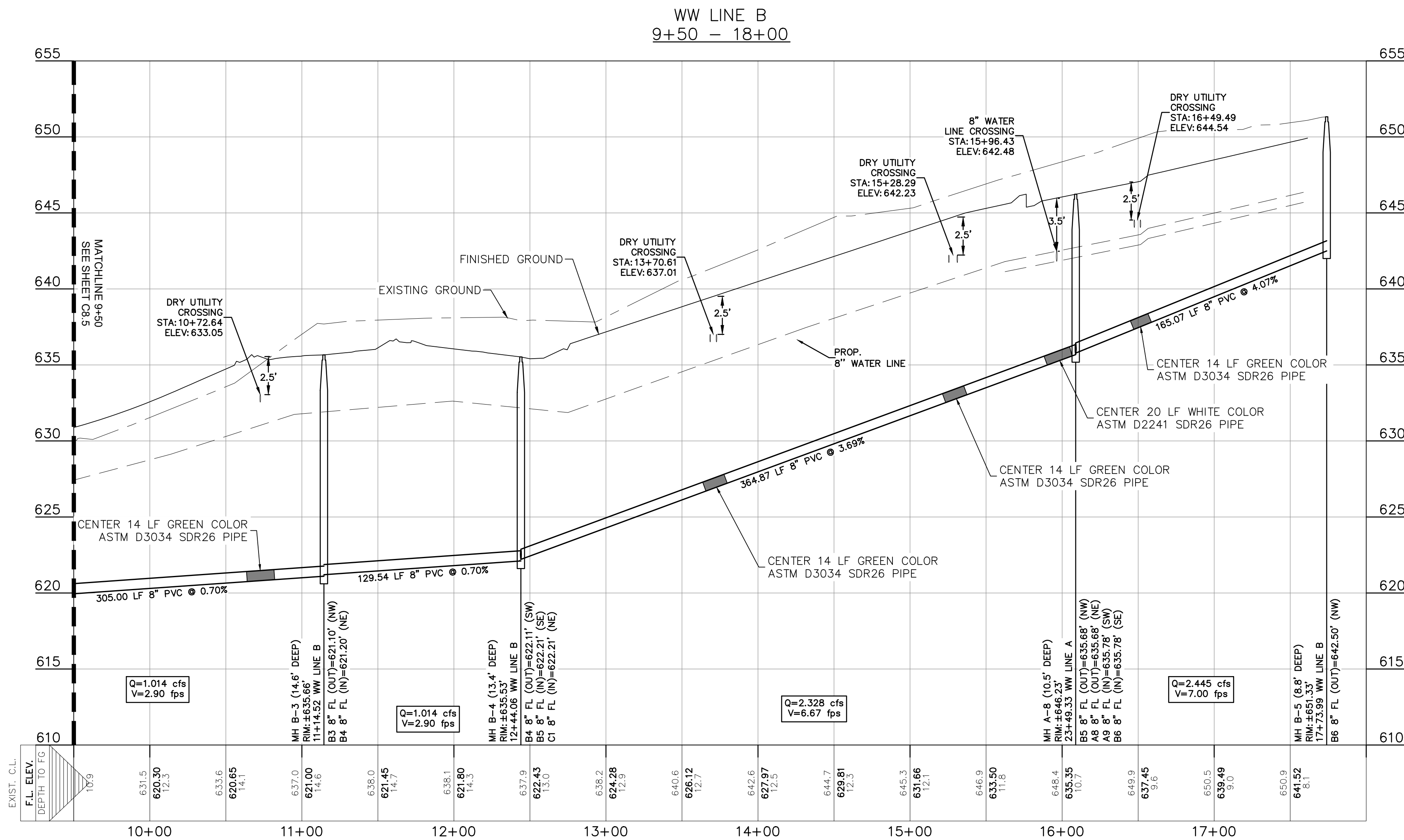
WW LINE B P&P (1 OF 2)

VOGES SUBDIVISION
UNIT 3

NO.	REVISION	DESCRIPTION	REVISION DATE

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C8.5



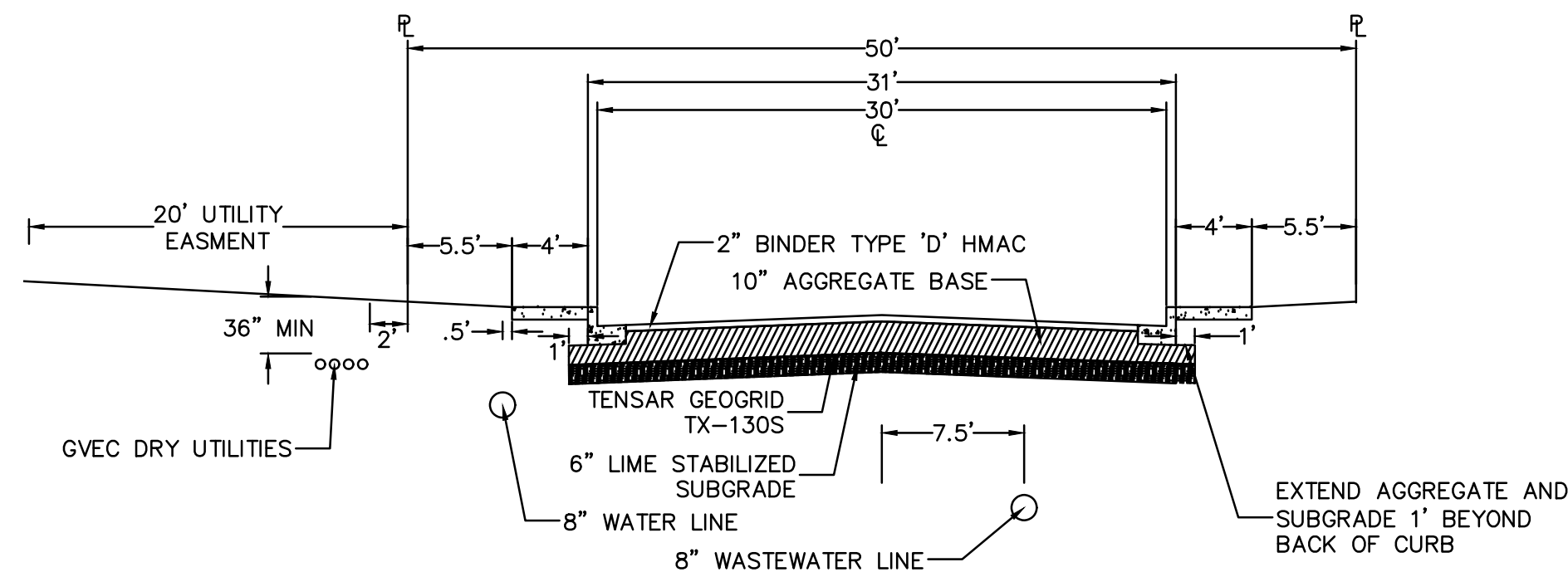
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DEEP TRENCH COMPACTION TESTING

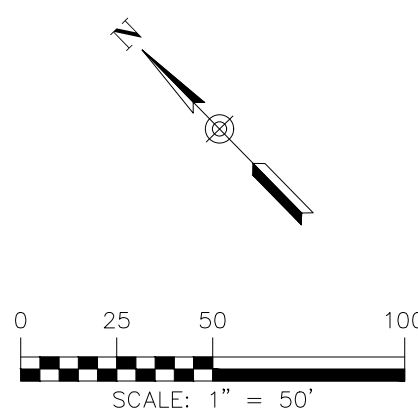
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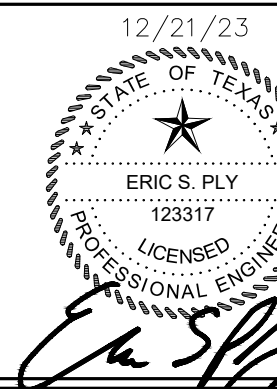
LEGEND

- EXISTING CONTOURS
- EXISTING CONTOURS
- B.L.
- U.E.
- D.E.
- EXISTING WASTEWATER LINE
- PROPOSED WASTEWATER MANHOLE
- PROPOSED WASTEWATER LINE
- PROPOSED WASTEWATER SERVICE
- UTILITY CROSSING

UTILITY NOTES:

- ALL UTILITIES TO BE CONSTRUCTED & TESTED PRIOR TO THE STREETS.
- NO VALVES, HYDRANTS, ETC. SHALL BE CONSTRUCTED WITHIN CURBS, SIDEWALKS OR DRIVEWAYS.
- ALL SEWER PIPE ATSM D3034(TYPICAL OF OTHER SHEETS) (115 PSI) SDR 26 UNLESS CALLED OUT OTHERWISE.
- REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.
- AT WATER CROSSINGS INCLUDING FIRE HYDRANT LEADS, WHITE COLOR GASKETED ASTM D2241 SDR 26 PIPE AND FITTINGS SHALL BE USED FOR MAINS AND LATERALS.
- REFER TO ALL GBRA NOTES ON SHEET C0.1.

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



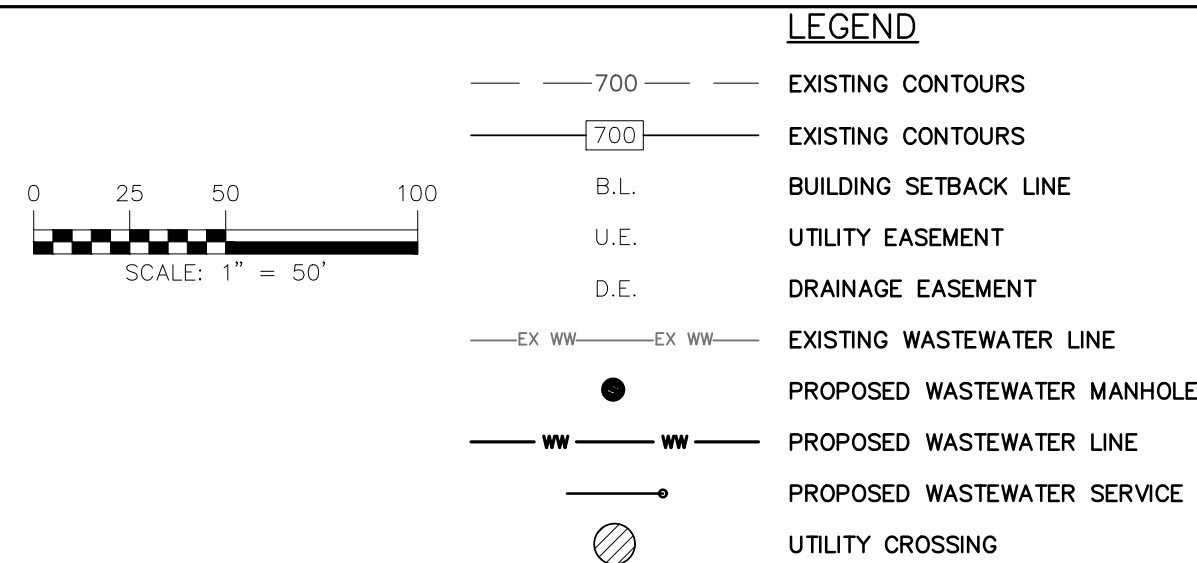
WW LINE B P&P (2 OF 2)

VOGES SUBDIVISION
UNIT 3

NO.	REVISION	DESCRIPTION	DATE

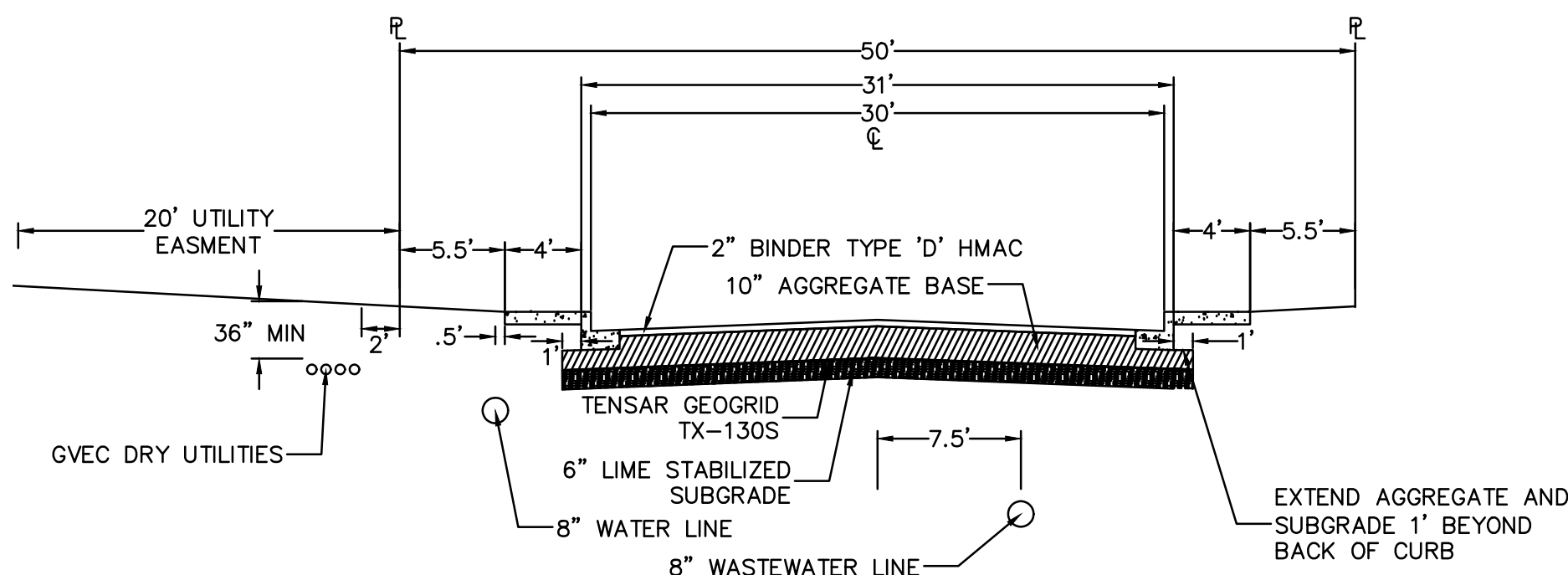
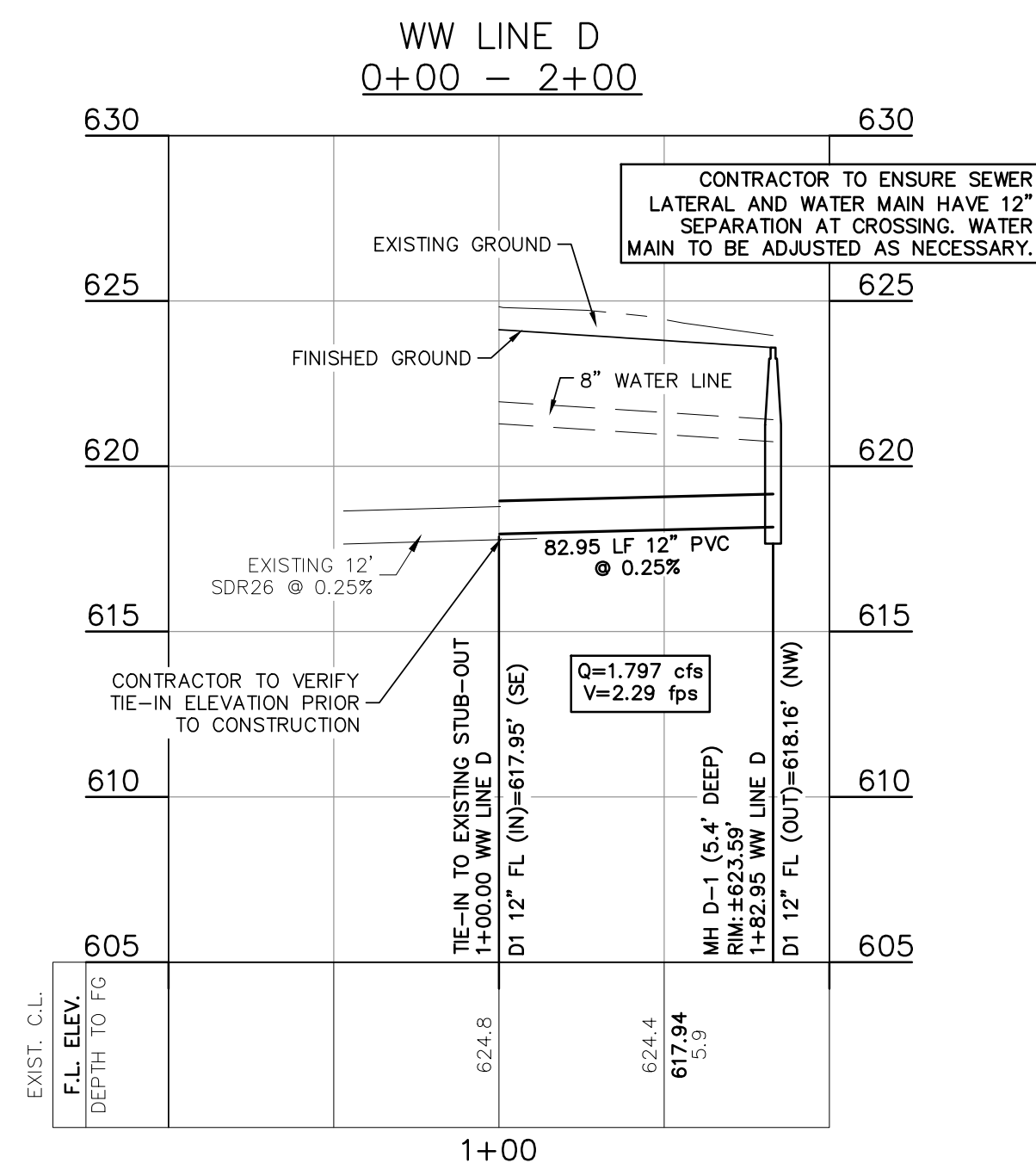
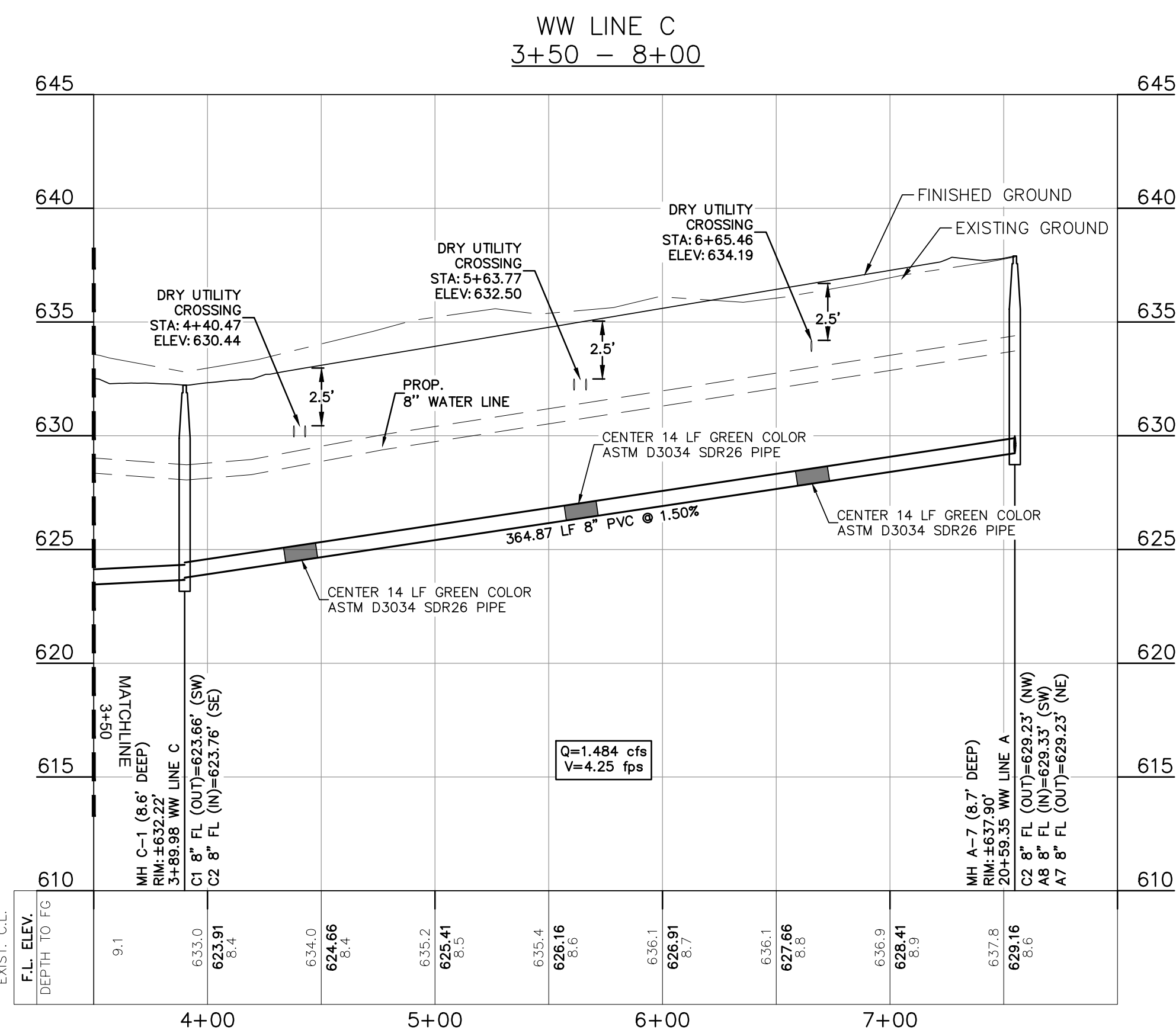
DATE: DECEMBER 2023
DRAWN BY: MP
DESIGNED BY: MP
REVIEWED BY: ESP
HMT PROJECT NO.: 248.014

SHEET
C8.6



UTILITY NOTES:

1. ALL UTILITIES TO BE CONSTRUCTED & TESTED PRIOR TO THE STREETS.
2. NO VALVES, HYDRANTS, ETC. SHALL BE CONSTRUCTED WITHIN CURBS, SIDEWALKS OR DRIVEWAYS.
3. ALL SEWER PIPE ATSD D3034(TYPICAL OF OTHER SHEETS) (115 PS) SDR 26 UNLESS CALLED OUT OTHERWISE.
4. REFER TO THE COVER SHEET FOR BENCHMARK INFORMATION.
5. AT WATER CROSSINGS INCLUDING FIRE HYDRANT LEADS, WHITE COLOR GASKETED ASTM D2241 SDR 26 PIPE AND FITTINGS SHALL BE USED FOR MAINS AND LATERALS.
6. REFER TO ALL GBRA NOTES ON SHEET C0.1.



UTILITY TRENCH COMPACTION

ALL UTILITY TRENCH COMPACTATION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") THICK. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH THE STANDARD TEST METHOD. ALL TESTS SHALL BE APPROVED BY THE CITY OF NEW BRUNSWICK STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF NEW BRUNSWICK STREET INSPECTOR WITH A WRITTEN REPORT. THE CITY OF NEW BRUNSWICK STREET INSPECTOR SHALL STATE THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

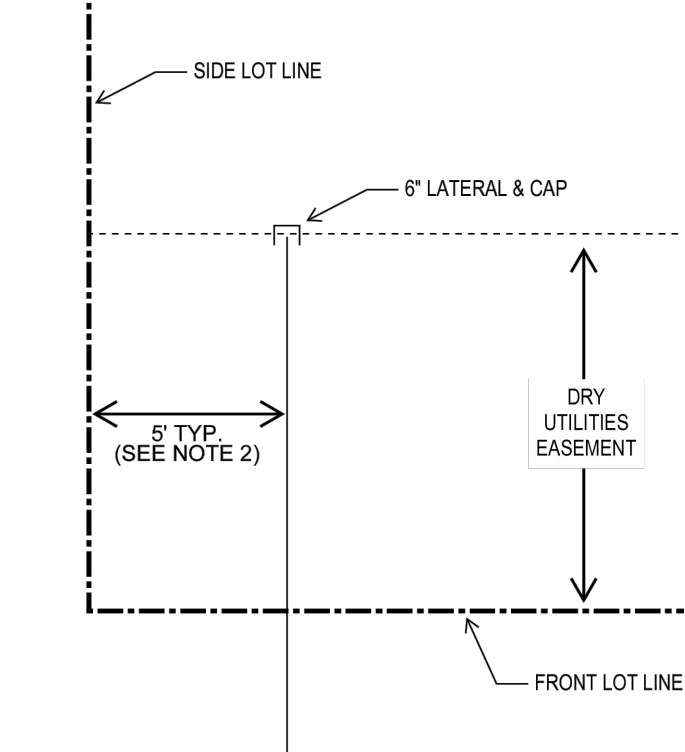
DEEP TRENCH COMPACTION TESTING

CITY REQUIREMENTS FOR TESTING SHALL BE ADHERED TO, IN CASES WHERE TRENCH DEPTHS DO NOT ALLOW TECHNICIANS ACCESS, METHODS FOR TESTING SHALL BE PROPOSED AND APPROVED PRIOR TO CONSTRUCTION COMMENCING.

THIS PROJECT INCLUDES UTILITY INSTALLATIONS GREATER THAN 5- FEET IN DEPTH LOCATED IN PUBLIC RIGHT-OF-WAY OR EASEMENTS. DEEP TRENCHES POSE COMPACTION TESTING AND CONSTRUCTION CHALLENGES AND CITY METHODS FOR TESTING AND COMPACTION MAY NOT BE ACHIEVABLE.

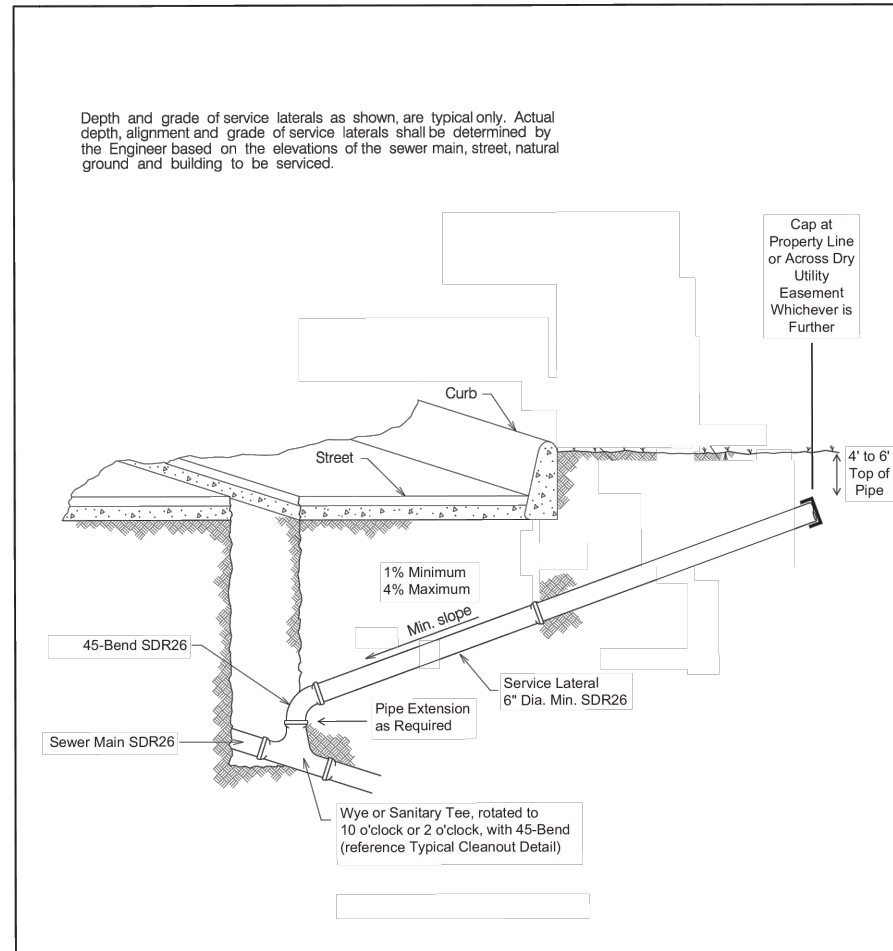
REFER TO THE COVER SHEET
FOR BENCHMARK INFORMATION.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24-HOURS PRIOR TO COMMENCING CONSTRUCTION.



- NOTES:
1. REFERENCE STANDARD LATERAL DETAIL FOR ADDITIONAL REQUIREMENTS
 2. PROVIDE 6 FT WHERE LOT CORNER IS SHARED WITH DRY UTILITIES AND 10 FT WHERE SHARED WITH FIRE HYDRANT OR AIR RELEASE VALVE

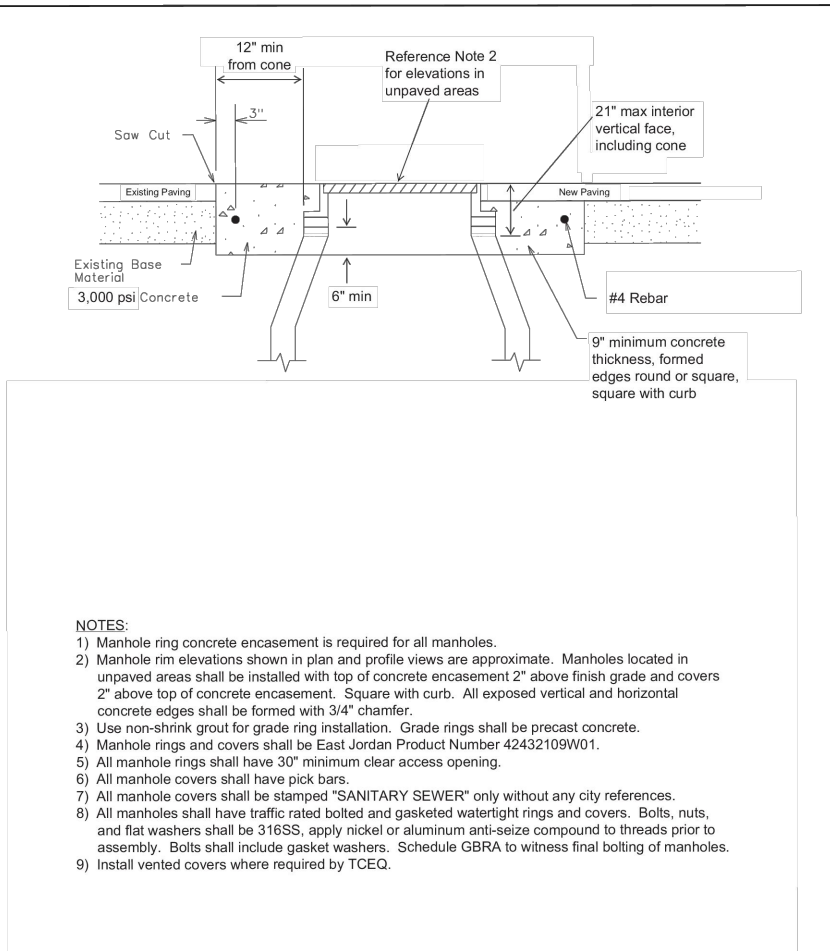
WASTEWATER LATERAL LAYOUT DETAIL (N.T.S.)
GUADALUPE-BLANCO RIVER AUTHORITY, 12/15/2021



- NOTES:
- 1) Install double services where indicated on design drawings
 - 2) Channel to be installed by customer/plumber
 - 3) Pipe and fittings shall be gasketed. Tees and 90 bends are not allowed
 - 4) Precast cased pipes and fittings shall be installed for sewer mains and laterals that cross water lines (see ASTM D2241 SDR26). Center both water and sewer pipe lengths at all crossings. Comply with TCEQ Rules.
 - 5) Tapping saddles are not allowed

Guadalupe-Blanco River Authority
LATERAL DETAIL

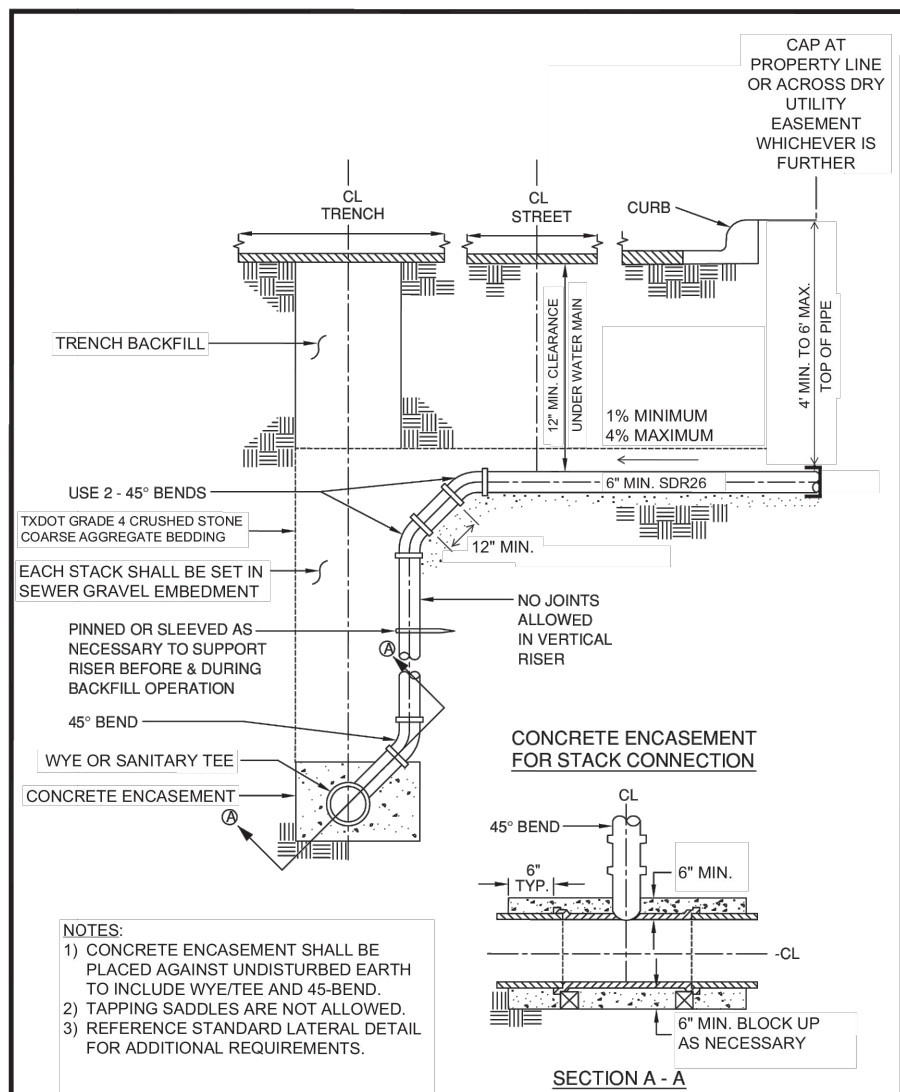
APPROVED	REVIEWED
C. LEWIS	JAN. 28, 2018
	SHEET



- NOTES:
- 1) Manhole ring concrete encasement is required for all manholes
 - 2) Manhole rim elevations shown in plan and profile views are appropriate. Manholes located in ungraded areas shall be installed with top of concrete encasement 2\"/>
 - 3) Use non-shrink grout for grade ring installation. Grade rings shall be encased in concrete.
 - 4) Manhole rings and covers shall be East Jordan Product Number 42452109W01.
 - 5) All manhole rings shall have 12\"/>
 - 6) All manhole covers shall have pickers.
 - 7) All manhole covers shall be stamped "SANITARY SEWER" only without any city references.
 - 8) All manholes shall have traffic rated bolter and gasketed watertight rings and covers. Bolts, nuts, and flat washers shall be 316SS, apply rubber or aluminum seal-coat compound to threads prior to assembly. Bolts shall include gasket washers. Schedule 40B to witness final bolting of manholes.
 - 9) Install vented covers where required by TCEQ

Guadalupe-Blanco River Authority
MANHOLE RING ENCASUREMENT DETAIL

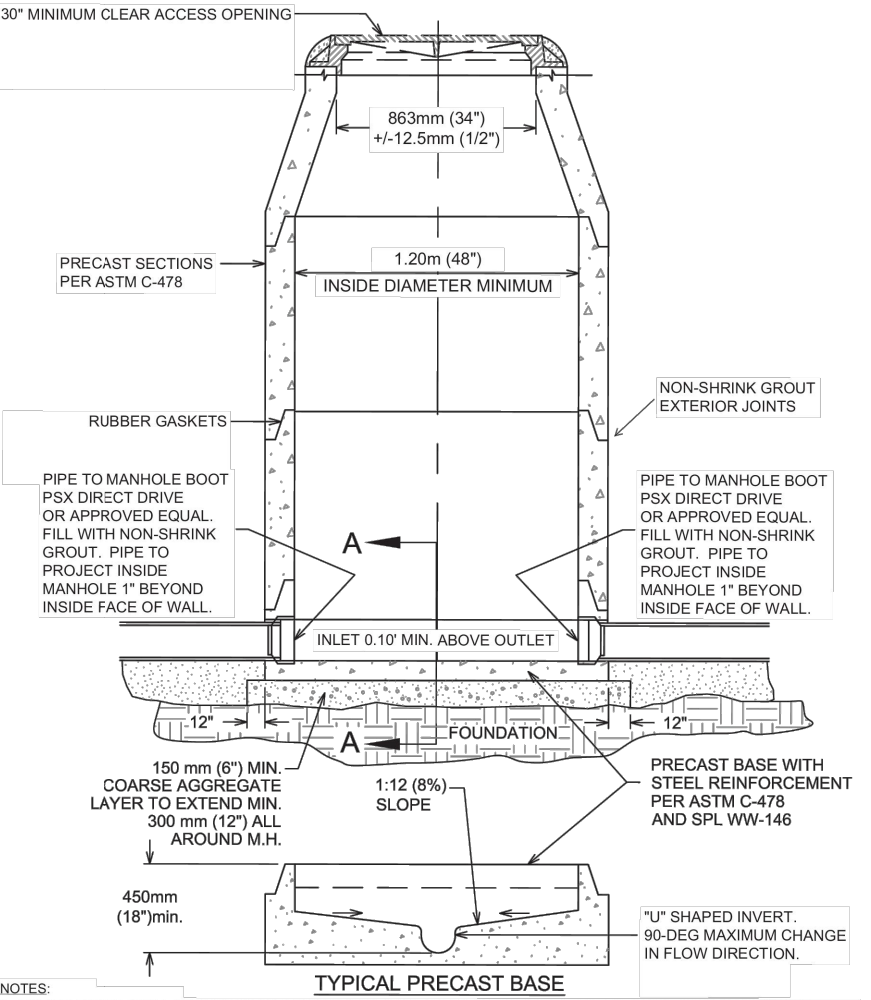
APPROVED	REVIEWED
C. LEWIS	JAN. 28, 2018
	SHEET



- NOTES:
- 1) CONCRETE ENCASUREMENT SHALL BE PLACED AGAINST UNDISTURBED EARTH TO INCLUDE WYE/TEE AND 45-BEND
 - 2) TAPPING SADDLES ARE NOT ALLOWED
 - 3) REFERENCE STANDARD LATERAL DETAIL FOR ADDITIONAL REQUIREMENTS

SECTION A-A

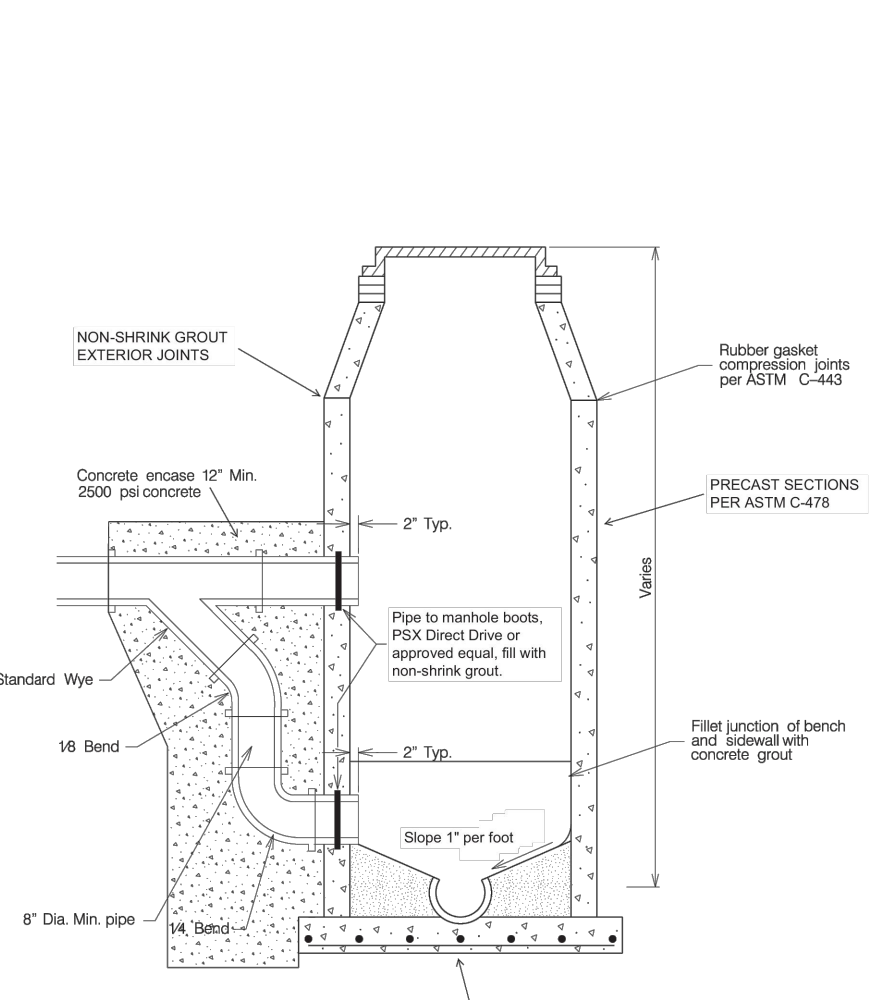
Guadalupe-Blanco River Authority
WASTEWATER LATERAL VERTICAL STACK DETAIL



- NOTES:
- 1) MANHOLE BASE SHALL BE BEDDED ON A 6\"/>
 - 2) MANHOLE BASE SHALL BE BEDDED ON A 6\"/>

Guadalupe-Blanco River Authority
WASTEWATER MANHOLE ON PRECAST BASE

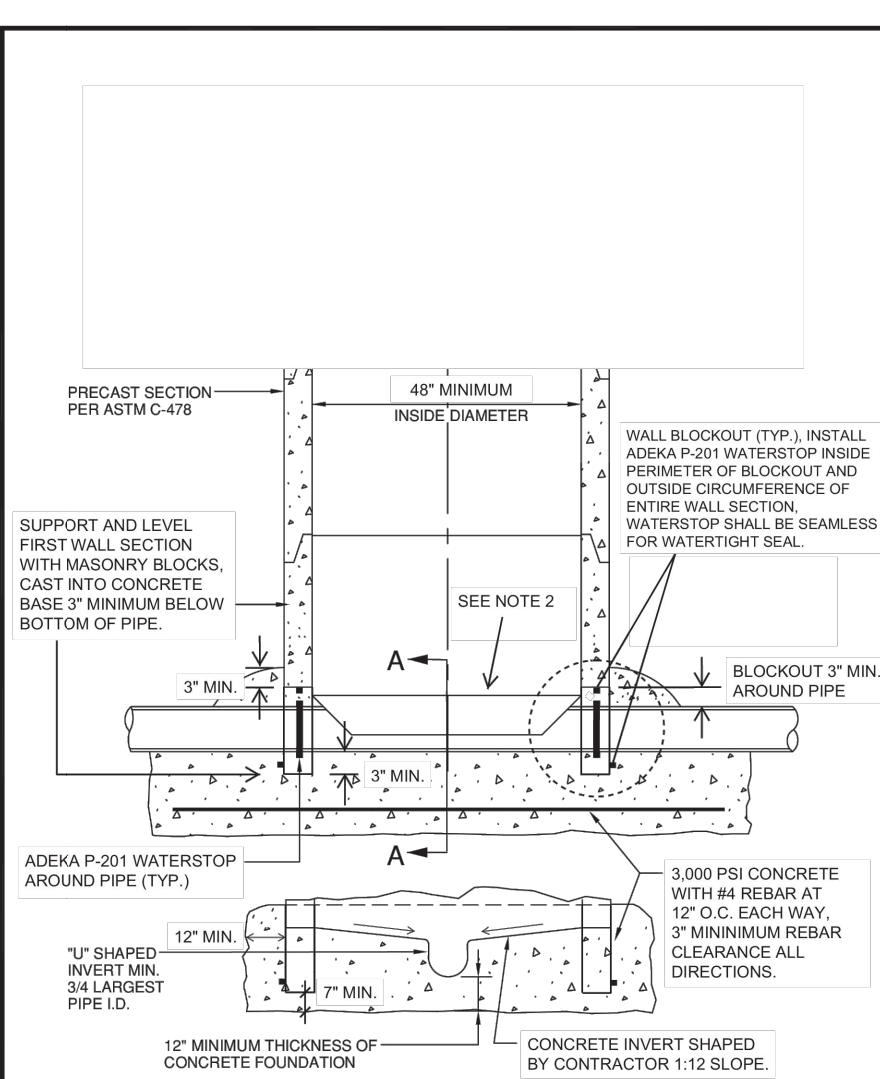
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD	C. LEWIS
	JAN. 28, 2018



- NOTES:
- 1) A wastewater collection system pipe, including service laterals, entering a manhole more than 24\"/>
 - 2) Reference standard precast manhole detail for additional requirements.

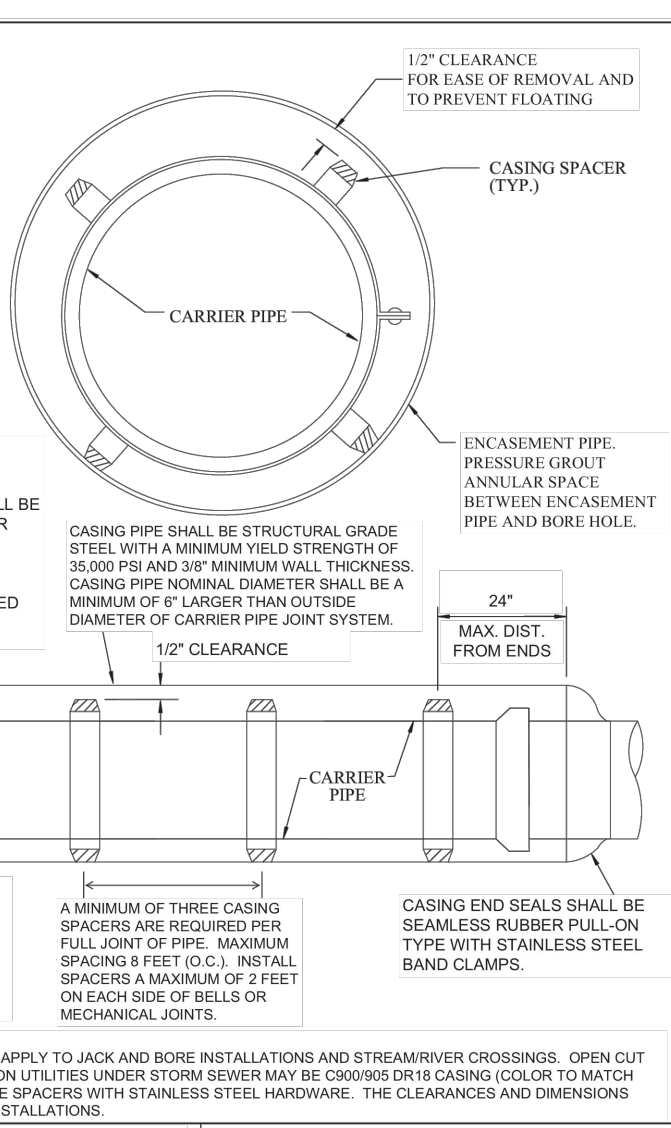
Guadalupe-Blanco River Authority
DROP MANHOLE

APPROVED	REVIEWED
C. LEWIS	JAN. 28, 2018
	SHEET



- NOTES:
1. THIS DETAIL SHALL BE USED TO INSTALL MANHOLES ON EXISTING MAINS ONLY.
 2. REMOVE ENTIRE EXISTING PIPE AND SHAPE INVERTS FOR NEW AND EXISTING PIPES
 3. REFERENCE STANDARD PRECAST MANHOLE DETAIL FOR ADDITIONAL REQUIREMENTS.

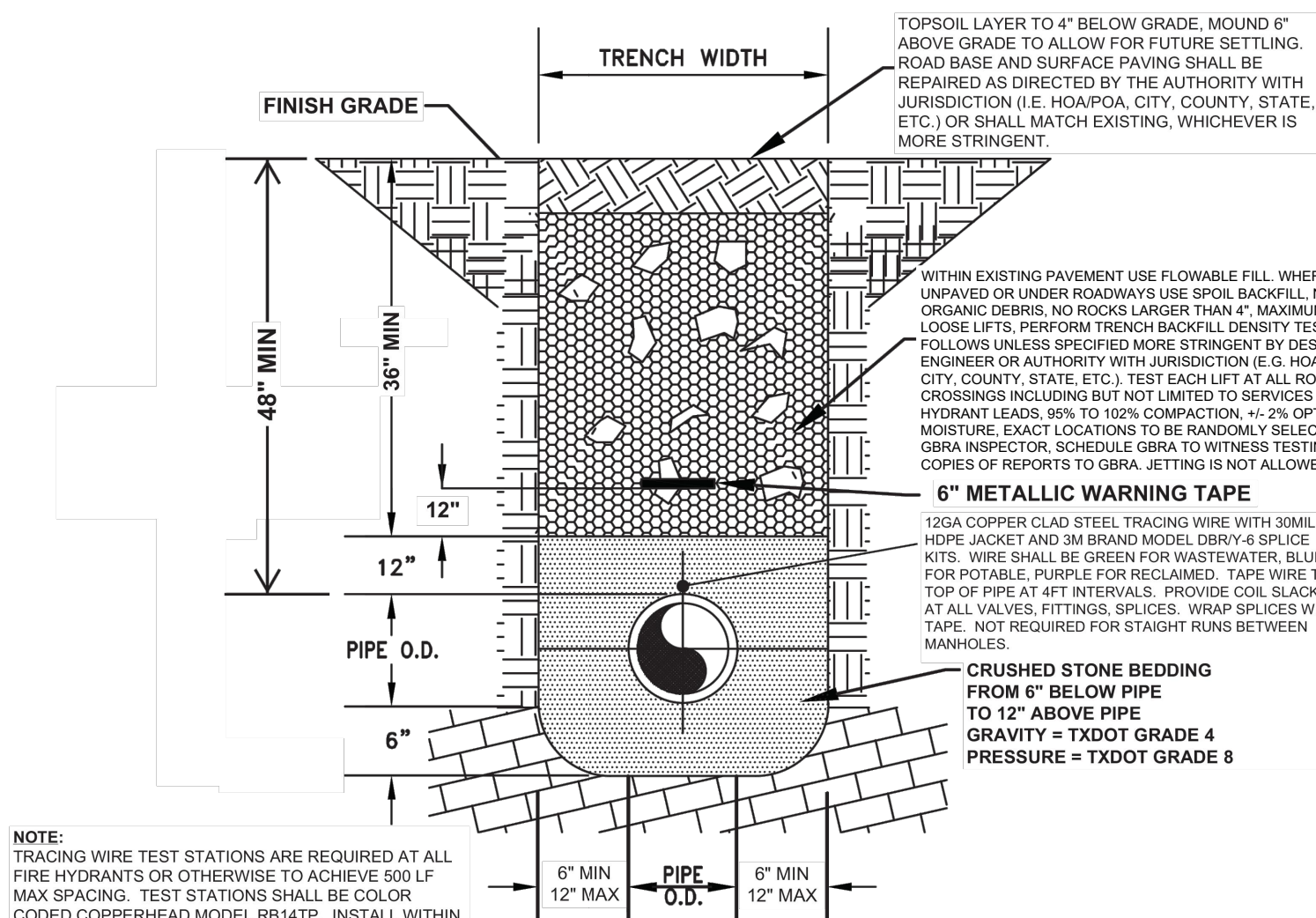
Guadalupe-Blanco River Authority
MANHOLE CAST IN PLACE BASE



- NOTE:
- THE MATERIALS SHOWN APPLY TO JACK AND BORE INSTALLATION AND STEAM/HEAVY CROSSINGS. OPEN CUT SLEEVING OF SUBDIVISION UTILITIES UNDER STORM SEWER MAY BE C90090S DR19 CASING (C/L OR TO MATCH CARRIER PIPE) AND 4\"/>

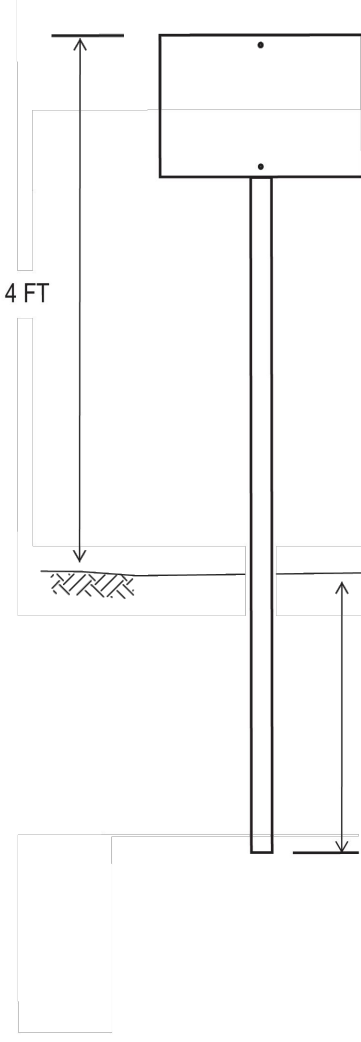
Guadalupe-Blanco River Authority
CASING AND SPACERS DETAIL

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD	STANDARD NO.



- NOTE:
- TRACING WIRE TEST STATIONS ARE REQUIRED AT ALL FIRE HYDRANTS OR OTHERWISE TO ACHIEVE 500 LF MAX SPACING. TEST STATIONS SHALL BE COLOR CODED COPPERHEAD MODEL 184HTP. INSTALL WITHIN VALVE BOX CONCRETE COLLARS WITH 6\"/>

TYPICAL PIPE TRENCH
Guadalupe-Blanco River Authority, 02/05/2018



TYPE 1 MARKER NOTES:

- 1) REFERENCE TYPE 2 MARKER DETAIL FOR SIGN REQUIREMENTS. ATTACHMENT HOLES WILL DIFFER.
- 2) POST SHALL BE DRIVE-IN TYPE GALVANIZED U-CHANNEL (MCMASTER-CARR 9735T61 OR EQUAL).
- 3) USE 1/4\"/>
- 4) TYPE 1 MARKERS ARE REQUIRED IN UNPAVED AREAS AT ALL MANHOLES, MAIN LINE BENDS, VALVES, AIR RELEASE VALVES, TEST STATIONS, BLOW-OFF/DRAIN VALVES, HYDRANTS, LINE PLUGS OR CAPS, AND AT ANY OTHER LOCATIONS INDICATED ON THE DRAWINGS, OR AS DIRECTED BY GBRA.

TYPE 2 MARKER NOTES:

- 1) MARKERS SHALL BE 0.080\"/>
- 2) INSTALL TYPE 2 MARKERS ON PIPE CENTERLINE AT ALL GATE AND FENCE CROSSINGS AND AT ANY OTHER LOCATIONS INDICATED ON THE DRAWINGS, OR AS DIRECTED BY GBRA.
- 3) ATTACH TO GATES AND FENCES WITH 14 GAUGE STAINLESS STEEL WIRE.
- 4) COLORS AND LABELS SHOWN ARE FOR POTABLE WATER. FOR WASTEWATER CHANGE BACKGROUND TO GREEN AND CHANGE "WATER" TO "SEWER". FOR RECLAIMED CHANGE BACKGROUND TO PURPLE AND CHANGE "WATER" TO "RECLAIMED".

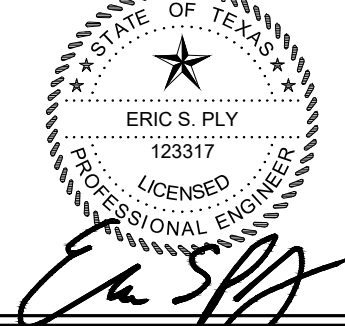
PIPELINE MARKERS

Guadalupe-Blanco River Authority, 01/30/2018

290 S. CASTELL AVE., STE. 100
NEW BRAUNFELS, TX 78130
TBPE FIRM F-10961
TBPLS FIRM 1053600



12/21/23



WASTEWATER DETAILS

VOGES SUBDIVISION UNIT 3

REVISION	DESCRIPTION	DATE
NO.		

DATE:	DECEMBER 2023
DRAWN BY:	MP
DESIGNED BY:	MP
REVIEWED BY:	ESP
HMT PROJECT NO.:	248.014

SHEET
C8.8