## FS

December 29, 2021

Mr. Walter Reeves Director of Development Services City of Angleton 121 S. Velasco Angleton, TX 77515

Re: On-Going Services Final Plat and Plan Review of Kiber Reserve Phase 2 Subdivision – <u>1st</u> Submittal Review Angleton, Texas HDR Job No. 10293241

Dear Mr. Reeves:

HDR Engineering, Inc. (HDR) has reviewed the plat for the above referenced subdivision and offers the following comments:

1. The Angleton Drainage District provided a letter of approval, dated April 21, 2020, with stipulations noted and is provided as an attachment in this review. No additional action is required unless design revisions are made to the pond.

HDR takes no objection to the proposed Kiber Reserve Subdivision Phase 2 Final Plat and Plans with the exceptions noted. Please note that this does not necessarily mean that the entire plat submittal set, including all supporting data and calculations, has been completely checked and verified; however, the drawings and supporting data were prepared and signed and sealed by a Registered Professional Land Surveyor and Registered Professional Engineer licensed to practice in the State of Texas, which therefore conveys the surveyor's and engineer's responsibility and accountability.

If you have any questions, please feel free to contact us at our office (713)-622-9264.

Sincerely,

HDR Engineering, Inc.

Javier Vasquez, P.E., CFM Civil Engineer

cc: Files (10293241)

Attachments

### DEDICATION STATEMENT:

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS: THAT CHARLES VON SCHMIDT, President And Managing Director of the WATERSTONE DEVELOPMENT GROUP, LLC, acting herein by and through its duly authorized officers, does hereby adopt this plat designating the hereinabove described property as KIBER RESERVE PHASE II, a subdivision in the jurisdiction of the City of Angleton, Texas, and does hereby dedicate, in fee simple, to the public use forever, the streets, alleys and public parkland shown thereon. The streets, alleys and parkland are dedicated for street purposes. The easements and public use areas, as shown, are dedicated for the public use forever, for the purposes indicated on this plat. No buildings, fences, trees, shrubs, or other improvements or growths shall be constructed or placed upon, over, or across the easements as shown, except that landscape improvements may be placed in landscape easements, if approved by the City of Angleton. In addition, utility easements may also be used for the mutual use and accommodation of all public utilities desiring to use or using the same unless the easement limits the use to particular utilities, said use by public utilities being subordinate to the public's and City of Angleton's use thereof. The City of Angleton and public utility entities shall have the right to remove and keep removed all or parts of any buildings, fences, trees, shrubs, or other improvements or growths which may in any way endanger or interfere with the construction, maintenance, or efficiency of their respective systems in said easements. The City of Angleton and public utility entities shall at all times have the full right of ingress and egress to or from their respective easements for the purpose of constructing, reconstructing. inspecting, patrolling, maintaining, reading meters, and adding to or removing all or parts of their respective systems without the necessity at any time of procuring permission from anyone.

Drainage Easements Maintained by a Homeowners' Association.

STATE OF TEXAS § COUNTY OF BRAZORIA §

This plat is hereby adopted by the owners (called "Owners") and approved by the City of Angleton, ("City") subject to the following conditions which shall be binding upon the Owners, their heirs, grantees, successor, and assigns

"Drainage Easements" shown on the plat are reserved for drainage purposes forever, and the maintenance of the drainage easements shall be provided by all of the owners of lots in the subdivision by and through a lawfully created homeowners association to be created by the Owners. The Owners covenant and agree that such a homeowners' association (called "Association") shall be created prior to the final acceptance of the City. All Association documents shall be subject to the approval of the City and shall specifically contain covenants binding the Association to continuously maintain all Drainage Easements. Such covenants shall not relieve the individual lot owners of the responsibility to maintain the Drainage Easements should the Association default in the performance of its maintenance responsibility. The Association documents shall also contain provisions that they may not be amended with regard to the Drainage Easement maintenance responsibilities without the approval of the City. The fee simple title to all Drainage Easements shall always remain in the Association.

The City and Angleton Drainage District are not responsible for the maintenance and operation of said easements or for any damage or injury to private property or person that results from the flow of water along said easement or for the control of erosion, but reserves the right to use enforcement powers to ensure that drainage easements are properly functioning in the manner in which they were designed and approved.

The City and Angleton Drainage District reserves the right, but not the obligation, to enter upon any Drainage Easement at any point, or points, with all rights of ingress and egress, to investigate, survey, erect, construct, or maintain any drainage facility deemed necessary by the City for drainage and safety purposes.

The Owners shall keep all Drainage Easements clean and free of debris, silt, and any substance which would result in unsanitary conditions or obstruct the flow of water, and the City of Analeton or Analeton Drainage District shall have the right of ingress and egress for the purpose of inspection and supervision of maintenance work by the Owners to alleviate any public health or safety issues. The Association hereby agrees to indemnify and hold harmless the City from any such damages and injuries.



### STATE OF TEXAS §

COUNTY OF BRAZORIA §

The owner of land shown on this plat, in person or through a duly authorized agent, dedicates to the use of the public forever all streets, alleys, parks, watercourses, drains, easements and public places thereon shown for the purpose and consideration therein expressed.

PRESIDENT AND MANAGING DIRECTOR

### STATE OF TEXAS § COUNTY OF BRAZORIA §

Before me, the undersigned, personally appeared CHARLES VON SCHMIDT known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed and, in the capacity, therein stated. Given under my hand and seal of office this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

Notary Public State of Texas

PLANNING AND ZONING COMMISSION AND CITY COUNCIL:

APPROVED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by the Planning and Zoning Commission, City of Angleton,

BILL GARWOOD, Chairman, Planning and Zoning Commission

FRANCES AGUILAR, City Secretary

APPROVED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, by the City Council, City of Angleton, Texas

JASON PEREZ, Mayor

FRANCES AGUILAR, City Secretary

STATE OF TEXAS § COUNTY OF BRAZORIA §

This instrument was acknowledged before me on the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_, by FRANCES AGUILAR, City Secretary, City of Angleton, on behalf of the City.

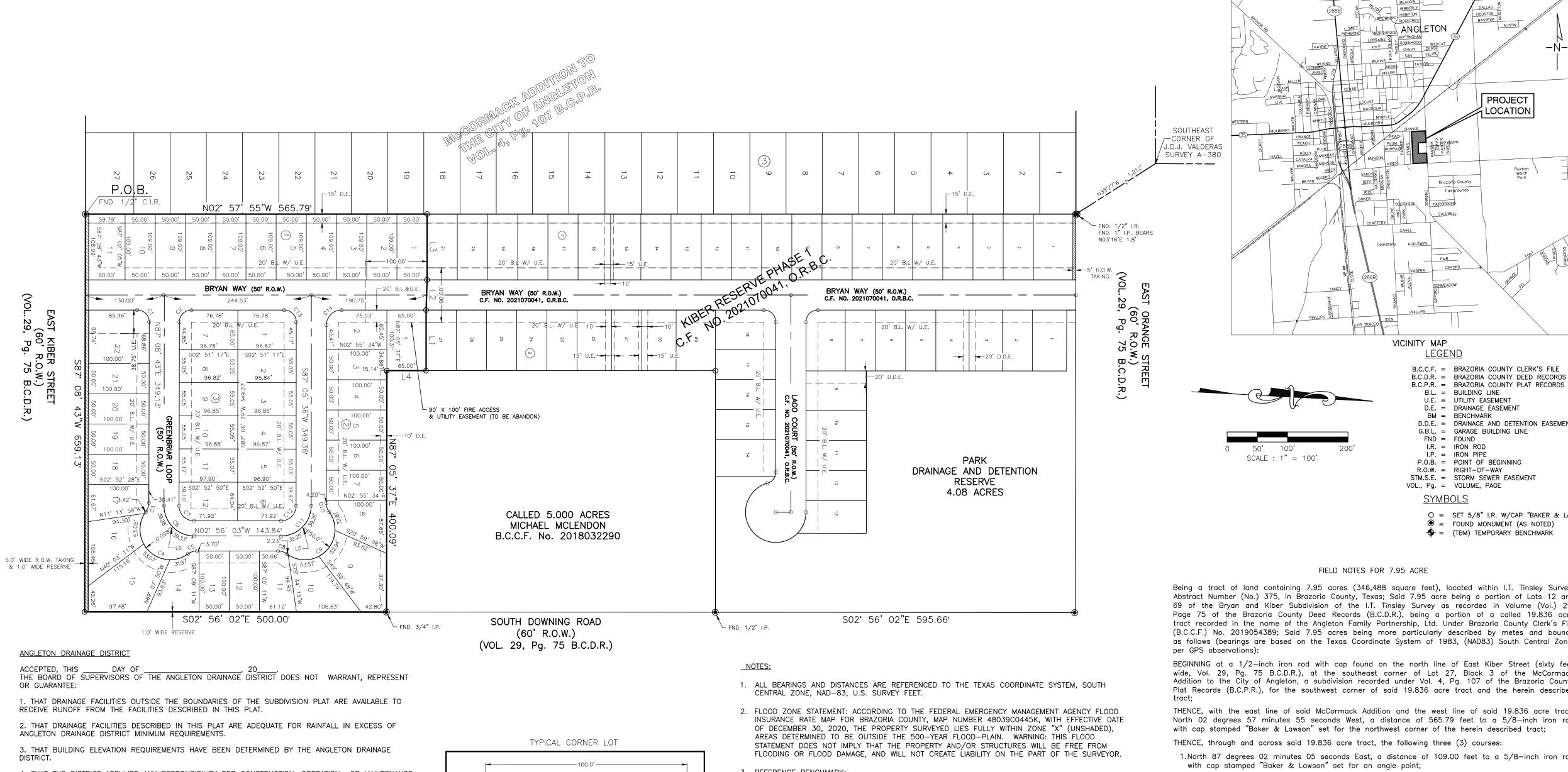
Notary Public State of Texas

SIGNED:

KNOW ALL MEN BY THESE PRESENTS: That I, Miguelangel A. Sauceda, do hereby certify that proper engineering consideration has been provided in this plat. To the best of my knowledge,

this plat conforms to all requirements of the Angleton LDC, except for any variances that were expressly granted by the City Council.

> Miguelangel A. Sauceda DATE PROFESSIONAL ENGINEER TEXAS REGISTRATION NO. 121992



4. THAT THE DISTRICT ASSUMES ANY RESPONSIBILITY FOR CONSTRUCTION. OPERATION OR MAINTENANCE OF SUBDIVISION DRAINAGE FACILITIES.

THE DISTRICT'S REVIEW IS BASED SOLELY ON THE DOCUMENTATION SUBMITTED FOR REVIEW, AND ON THE RELIANCE ON THE REPORT SUBMITTED BY THE TEXAS REGISTERED PROFESSIONAL ENGINEER. THE DISTRICT'S REVIEW IS NOT INTENDED NOR WILL SERVE AS A SUBSTITUTION OF THE OVERALL

RESPONSIBILITY AND/OR DECISION MAKING POWER OF THE PARTY SUBMITTING THE PLAT OR PLAN HEREIN, THEIR OR ITS PRINCIPALS OR AGENTS.

CHAIRMAN, BOARD OF SUPERVISORS

### BOARD MEMBER

			Curve Tab	e	
Curve No.	Length	Radius	Delta	Chord Bearing	Chord
C1	31.45'	20.00'	90°06'38"	S42°05'24"W	28
C2	31.38'	20.00'	89 <b>°</b> 53'22"	S47°54'36"E	28
C3	15.74'	25.00'	36°03'59"	N74°49'18"W	15.
C4	141.51'	50.00'	162°09'26"	N42°07'59"E	98
C5	15.71'	25.00'	36°00'42"	S20°56'23"E	15.
C6	78.61'	50.00'	90°04'45"	N42°06'21"E	70
C7	39.30'	25.00'	90°04'45"	N42°06'21"E	35
C8	15.76'	25.00'	36°06'50"	S15°07'23"W	15.
С9	141.54'	50.00'	162°11'21"	N47°54'52"W	98
C10	15.75'	25.00'	36°06'10"	N69°02'32"E	15.
C11	78.52'	50.00'	89*58'21"	N47°55'12"W	70
C12	39.26'	25.00'	89 <b>°</b> 58'21"	N47°55'12"W	35
C13	31.44'	20.00'	90°03'32"	S42°03'51"W	28
C14	39.24'	25.00'	89°56'28"	S47°56'09"E	35

KNOW ALL MEN BY THESE PRESENTS: That I, Luther J. Daly, do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the corner monuments shown thereon were properly placed under my supervision.

SIGNED LUTHER J. DALY DATE REGISTERED PROFESSIONAL LAND SURVEYOR TEXAS REGISTRATION NO. 6150

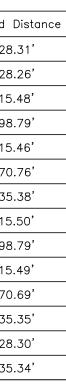
BOARD MEMBER

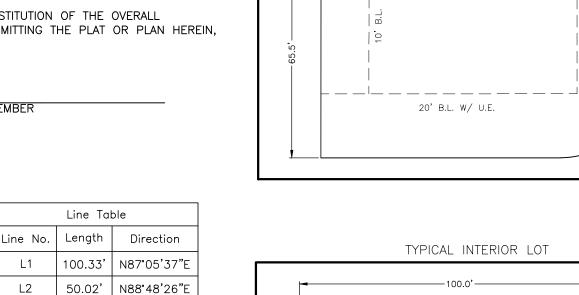
L3 | 109.00' | N87°02'05"E

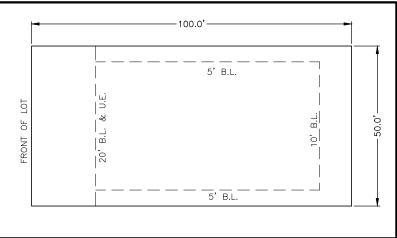
L4 65.00' S02°56'59"E

L5 5.72' S42°05'10"W

L6 5.69' N47°51'49"W



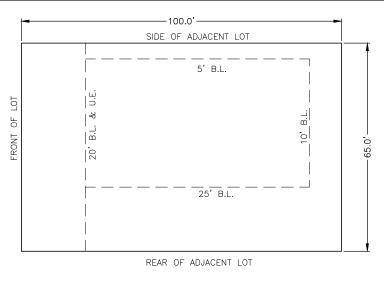




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- 3. REFERENCE BENCHMARK: TXDOT L200203 A 5/8" I.R. WITH ALUMINUM CAP SET IN CONCRETE AT THE SOUTHEAST CORNER OF THE INTERSECTION OF S.H. 35 AND SOUTH DOWNING ROAD AND 121' EAST OF THE CENTERLINE OF SOUTH DOWNING ROAD.
- 4. THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES OR SUBSURFACE CONDITIONS OTHER THAN THOSE SHOWN MAY AFFECT THE USE AND DEVELOPMENT OF THE SUBJECT PROPERTY SHOWN HEREON

ELEVATION = 25.74 FEET NGVD29

- 5. NOTICE: SELLING A PORTION OF THIS ADDITION BY METES AND BOUNDS IS A VIOLATION OF THE UNIFIED DEVELOPMENT CODE OF THE CITY OF ANGLETON AND STATE PLATTING STATUTES AND IS SUBJECT TO FINES AND WITHHOLDING OF UTILITIES AND BUILDING PERMITS.
- 6. NOTICE: PLAT APPROVAL SHALL NOT BE DEEMED TO OR PRESUMED TO GIVE AUTHORITY TO VIOLATE, NULLIFY, VOID, OR CANCEL ANY PROVISIONS OF LOCAL, STATE, OR FEDERAL LAWS, ORDINANCES, OR CODES
- 7. NOTICE: THE APPLICANT IS RESPONSIBLE FOR SECURING ANY FEDERAL PERMITS THAT MAY BE NECESSARY AS THE RESULT OF PROPOSED DEVELOPMENT ACTIVITY. THE CITY OF ANGLETON IS NOT RESPONSIBLE FOR DETERMINING THE NEED FOR, OR ENSURING COMPLIANCE WITH ANY FEDERAL PERMIT
- 8. NOTICE: APPROVAL OF THIS PLAT DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD OR REGISTERED PUBLIC LAND SURVEYOR IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY THE CITY ENGINEER.
- 9. NOTICE: ALL RESPONSIBILITY FOR THE ADEQUACY OF THIS PLAT REMAINS WITH THE ENGINEER OR SURVEYOR WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY OF ANGLETON MUST RELY ON THE ADEQUACY OF THE WORK OF THE ENGINEER AND/OR SURVEYOR OF RECORD.
- 10. SIDEWALKS SHALL BE REQUIRED PER ANGLETON LDC SEC. 23.14 SIDEWALKS AND ACCESSIBILITY.
- 11. A MINIMUM OF TWO PARKING SPACES ON THE SAME LOT AS THE MAIN STRUCTURE AND ON A PAVED DRIVEWAY HAVING A MINIMUM LENGTH OF 20 FEET AS MEASURED FROM THE STREET RIGHT-OF-WAY LINE.
- 12. NOTICE: PRIVACY FENCING CROSSING PERPENDICULAR TO THE 15' DRAINAGE EASEMENT SHALL PROVIDE ADEQUATE OPENING (1 S.F. MINIMUM) FOR FLOW THROUGH FENCE OPENING.
- 13. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER OR PROPERTY OWNER ASSOCIATION TO MAINTAIN THE PARK, DETENTION, DRAINAGE, AND UTILITY RESERVE TRACT PER ANGLETON LDC REQUIREMENTS; SEC. 23-19 RESERVATIONS.
- 14. ALL REAR BUILDING LINES SHALL BE 10 FEET FROM PROPERTY LINE. SIDE BUILDING LINES SHALL BE 5 FEET FOR INTERIOR SIDE LOTS, 20 FEET FOR CORNER LOTS ON THE STREET, AND 25 FEET FOR KEY CORNER LOTS. THE FRONT BUILDING LINE SHALL BE 20 FEET.
- 15. THE PURPOSE OF THE 1.0 FT WIDE RESERVE IS TO RESTRICT DRIVEWAY ACCESS TO SOUTH DOWNING ROAD AND EAST KIBER STREET.
- 16. DETENTION FOR KIBER RESERVE PHASE II IS PROVIDED WITHIN THE KIBER RESERVE PHASE I DEVELOPMENT.

U.E. = UTILITY EASEMENTD.E. = DRAINAGE EASEMENT BM = BENCHMARK D.D.E. = DRAINAGE AND DETENTION EASEMENT G.B.L. = GARAGE BUILDING LINE FND = FOUND I.R. = IRON ROD I.P. = IRON PIPE P.O.B. = POINT OF BEGINNING R.O.W. = RIGHT-OF-WAY

VOL., Pg. = VOLUME, PAGE

SYMBOLS

NORTHVIEW

Fairground

GIFFORD

PROJECT

LOCATION

Rueben Welch

CANNAN

MEADOW

O = SET 5/8" I.R. W/CAP "BAKER & LAWSON"  $\odot$  = FOUND MONUMENT (AS NOTED) - (TBM) TEMPORARY BENCHMARK

Being a tract of land containing 7.95 acres (346,488 square feet), located within I.T. Tinsley Survey, Abstract Number (No.) 375, in Brazoria County, Texas; Said 7.95 acre being a portion of Lots 12 and 69 of the Bryan and Kiber Subdivision of the I.T. Tinsley Survey as recorded in Volume (Vol.) 29, Page 75 of the Brazoria County Deed Records (B.C.D.R.), being a portion of a called 19.836 acre tract recorded in the name of the Angleton Family Partnership, Ltd. Under Brazoria County Clerk's File (B.C.C.F.) No. 2019054389; Said 7.95 acres being more particularly described by metes and bounds as follows (bearings are based on the Texas Coordinate System of 1983, (NAD83) South Central Zone,

BEGINNING at a 1/2-inch iron rod with cap found on the north line of East Kiber Street (sixty feet wide, Vol. 29, Pg. 75 B.C.D.R.), at the southeast corner of Lot 27, Block 3 of the McCormack Addition to the City of Angleton, a subdivision recorded under Vol. 4, Pg. 107 of the Brazoria County Plat Records (B.C.P.R.), for the southwest corner of said 19.836 acre tract and the herein described

THENCE, with the east line of said McCormack Addition and the west line of said 19.836 acre tract. North 02 degrees 57 minutes 55 seconds West, a distance of 565.79 feet to a 5/8-inch iron rod with cap stamped "Baker & Lawson" set for the northwest corner of the herein described tract;

1.North 87 degrees 02 minutes 05 seconds East, a distance of 109.00 feet to a 5/8-inch iron rod

2.North 88 degrees 48 minutes 26 seconds East, a distance of 50.02 feet to a 5/8-inch iron rod with cap stamped "Baker & Lawson" set for an angle point;

3.North 87 degrees 05 minutes 37 seconds East, a distance of 100.33 feet to a 5/8-inch iron rod with cap stamped "Baker & Lawson" set on the west line of a called 5.000 acre tract recorded in the name of Michael McLendon under BC.C.F. No. 2018032290, for the north-northeast corner of the herein described tract:

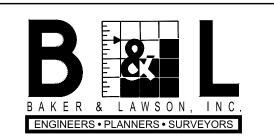
THENCE. with the west line of said 5.000 acre tract, South 02 degrees 56 minutes 59 seconds East, a distance of 65.00 feet to a 5/8-inch iron rod with cap stamped "Baker & Lawson" set at the southwest corner of said 5.000 acre tract, for an interior corner of the herein described tract; THENCE, with the south line of said 5.000 acre tract, North 87 degrees 05 minutes 37 seconds East, a distance of 400.09 feet to a 3/4-inch iron pipe found on the east R.O.W. line of South Downing Road (sixty feet wide per Vol. 29, Page 75 B.C.D.R.), at the southeast corner of said 5.000 acre tract, for the northeast corner of the herein described tract:

THENCE, with the west R.O.W. line of said South Downing Road, South 02 degrees 56 minutes 02 seconds East, a distance of 500.00 feet to a 5/8-inch iron rod with cap stamped "Baker & Lawson" set at the northwest corner of the intersection of said South Downing Road and East Kiber Street, for the southeast corner of the herein described tract;

THENCE, with the north R.O.W. line of said East Kiber Street, South 87 degrees 08 minutes 43 seconds West, a distance of 659.13 feet to the POINT OF BEGINNING and containing 7.95 acres of

## FINAL REPLAT **KIBER RESERVE PHASE II** A 7.956 ACRE, 45-LOT, **3 BLOCK SUBDIVISION**

PORTION OF LOTS 12 AND 69, OF THE BRYAN AND KIBER SUBDIVISION. VOL. 29, Pg. 75 B.C.D.R. LOCATED IN THE I. T. TINSLEY SURVEY, ABSTRACT No. 375 BRAZORIA COUNTY. TEXAS



4005 T	ECHN	OLOGY	DRIVE
	SUITI	E 1530	
ANGL	ETON,	TEXAS	77515
OFF	ICE: (9	79) 849-	6681
TB	PLS No	o. 10052	500
	REG. N	O. F-82	5
	DRAWN BY	r: BWB	

CHECKED BY: DRR

OWNER: CHARLES VON SCHMIDT WATERSTONE DEVELOPMENT GROUP, LLC

PROJECT NO.: 13499 DRAWING NO .: 13499 PLAT

**REVISED:** 

SCALE: 1" = 100' DATE: 12/20/2021

## CITY OF ANGLETON

### MAYOR JASON PEREZ

CITY MANAGER CHRIS WHITTAKER

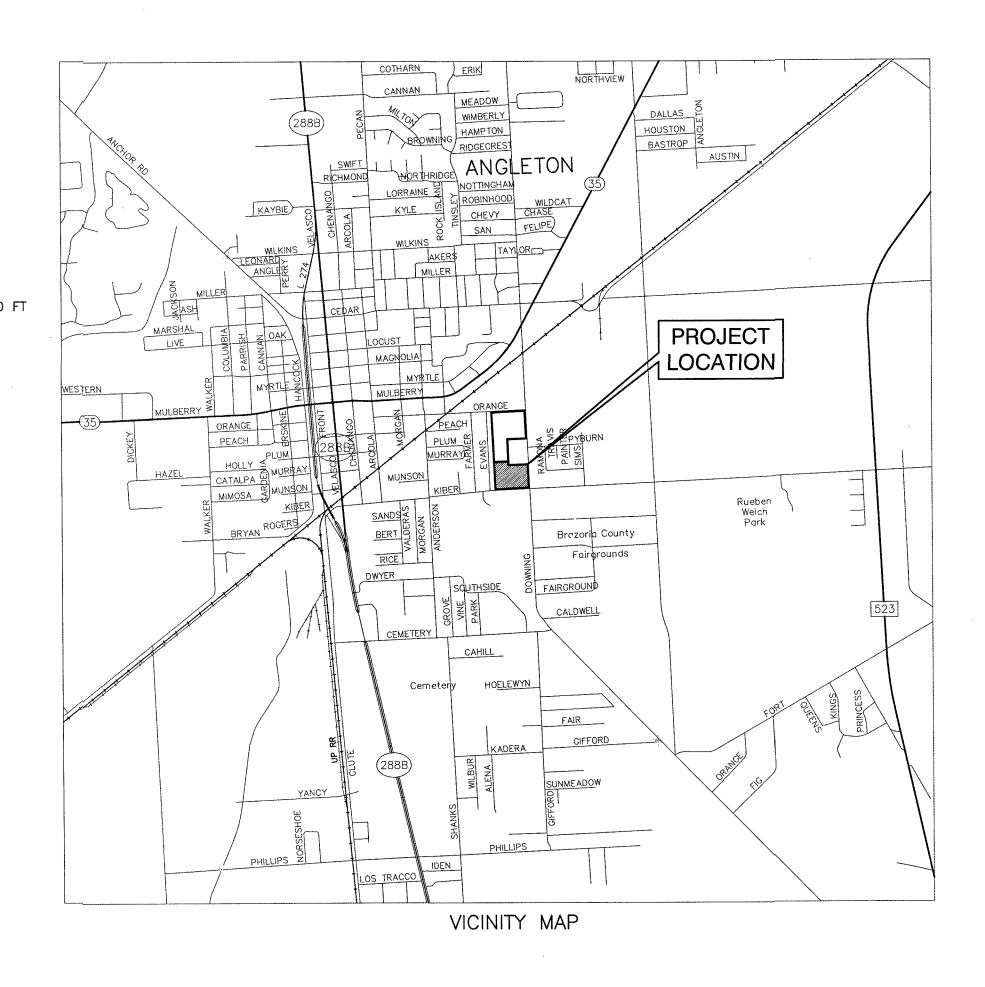
## CITY COUNCIL MIKEY SVOBODA CECIL BOOTH JOHN WRIGHT TRAVIS TOWNSEND MARK GONGORA

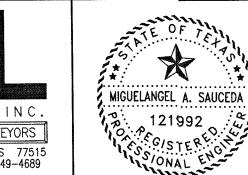
"Release of this application does not constitute a verification of all data, information and calculations supplied by the applicant. The engineer of record is solely responsible for the completeness, accuracy and adequacy of their submittal, whether or not the application is reviewed for Code compliance by the City Engineer.'

"All responsibility for the adequacy of these plans remains with the Engineer who prepared them. In approving these plans, the City of Angleton must rely on the adequacy of the work of the Design Engineer."

				DESIGNED MS	
				DRAWN BT/BB	
			APPROVED	CHECKED	BAKER & LAWSON,
NO.	DATE	DESCRIPTION	APPROVED		ENGINEERS • PLANNERS • SURVE
		REVISIONS		DATE	300 E. CEDAR ST, ANGLETON, TEXAS PHONE: (979) 849–6681 FAX: (979) 84 REG. NO. F—825

# PLANS FOR CONSTRUCTION OF PAVING, DRAINAGE AND UTILITIES ON KIBER RESERVE (PHASE 2) A 7.95 AC, 45-LOT SUBDIVISION FOR THE CITY OF ANGLETON BRAZORIA COUNTY B&L JOB No. 13499





GRAPHIC SCALE

The seal appearing on this document was authorized by Miguelangel A. Sauceda P.E. 121992 Mapl lal : 12621

**OWNER:** CHARLES VON SCHMIDT WATERSTONE DEVELOPMENT GROUP 185 CEDAR POINT DRIVE LIVINGSTON, TX 77351 936-646-6767

PLAN: PROFILE: HORIZONTAL: VERTICAL:

INDEX OF DRAWINGS

SHEET NAME SHEET NO TITLE SHEET PRELIMINARY PLAT FINAL PLAT CONSTRUCTION NOTE EXISTING CONDITIONS PLAN & PROFILE - BRYAN WAY STA 0+00 TO 5+00 PLAN & PROFILE - BRYAN WAY STA 5+00 TO 10+20 NOT USED NOT USED PLAN & PROFILE - GREENBRIAR LOOP STA 0+00 TO 5+00 ROFILE - LAGO COURT STA 0+00 TO 3+60 UN 2 - BETWEEN LOTS 3 & 4 UTILITY LAYOU' DETENTION POND DESIGN, CROSS SECTIONS AND LANDSCAPE PLAN DRAINAGE AREA MAP 15 **GRADING PLAN** NOT USED SWPPP LAYOUT SWPPP NARRATIVE 18 HYDROLOGIC CALCULATIONS 20 WINDSTORM DATA I-1 TO I-17 & WINDSTORM DATA I-18 TO I-19 21 TRAFFIC CONTROL PLAN - TCP (1-2) - 18 22 PAVEMENT MARKINGS, MAIL BOXES, STREET SIGNS AND ROADWAY LIGHTING LAYOUT DETAIL SHEETS 23 MISCELLANEOUS DETAILS 24 (SL-03) STORM SEWER MANHOLE CONSTRUCTION DETAILS 25 (SL-08) STORM SEWER INLET CONSTRUCTION DETAILS II 26 (SL-09) STORM SEWER INLET CONSTRUCTION DETAILS III 27 (SL-10) STORM SEWER CONSTRUCTION DETAILS 28 (SL-11) JUNCTION BOX MANHOLES 29 (SL-14) SANITARY SEWER CONSTRUCTION DETAILS 30 (SL-15) WATER LINE CONSTRUCTION DETAILS 31 (SL-16) WATER LINE CROSSING DETAILS 32 (SL-19) WATER LINE, SAN. SEW. F.M. BEDDING DETAILS 33 (SL-20) STORM SEW. BEDDING AND BACKFILL DETAILS 34 (SL-21) CONCRETE PAVEMENT CONSTRUCTION DETAILS 35 (SL-22) CONCRETE PAVEMENT CONSTRUCTION DETAILS 36 (SL-23) RESIDENTIAL CURB CONSTRUCTION DETAILS 37 (SL-25) WHEEL CHAIR RAMP & SIDEWALK DETAILS I 38 (SL-26) WHEEL CHAIR RAMP & SIDEWALK DETAILS II 39 (SL-27) DRIVEWAY CONSTRUCTION DETAILS

40 (SL-33) GENERAL EROSION CONTROL NOTES 41 (SL-34) EROSION CONTROL DETAILS - 1

42 (SL-35) EROSION CONTROL DETAILS - 2

KIBER RESERVE (PHASE II) A 7.95 AC, 45-LOT SUBDIVISION ANGLETON, TEXAS 77515

TITLE SHEET

		GENERAL CONSTRUCTION NOTES			13.	RATE OF APPLICATION FOR LIME
		CONTRACTOR SHALL NOTIFY THE "UNDERGROUND UTILITY COUND. (979) 849–4364 AND THE CITY OF ANGLETON (TELEPH HOURS BEFORE STARTING WORK IN STREET RIGHT–OF–WAYS	IONE NO. (9	179) 849–4364) 48		(QUALITY BASE ON 100 #/ C.F YARD FOR SIX (6) INCH STABIL MIXED MORE THAN ONE INCH IN SUBGRADE SHALL BE BROUGHT
		ALL EXISTING UNDERGROUND UTILITIES ARE NOT GUARANTEEI BUT WERE OBTAINED FROM INFORMATION AVAILABLE, CONTRA FOR FIELD VERIFICATION OF ALL EXISTING FACILITIES SHOWN COORDINATE ALL CONFLICTS WITH THE APPROPRIATE GOVERN	ACTOR HAS	SOLE RESPONSIBILITY NGS. CONTRACTOR SHALL		OPERATIONS THEN LEFT TO CUP AFTER FINAL MIXING IS COMPLE STABILIZED SUBGRADE SHALL BI STAKES (BLUE TOPS) AND APPP
	3.	CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO REQUIREMENTS OF OSHA SAFETY AND HEALTH REGULATION, PUBLISHED IN THE FEDERAL REGISTER, VOLUME 54, NO. 20	MEET, AS A PART 1926,	A MINIMUM, THE SUBPART P AS		PERCENT (95%) OF THE STAND/ COMPLETED SECTIONS SHALL BE OR SUBSTANTIAL SUPPLY HOSES WITH ADDITIONAL COURSES. AF
		CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONT RECENT EDITION AS REVISED) DURING CONSTRUCTION.	L DEVICES I IROL DEVICE	N CONFORMANCE WITH S (TEXAS MUTCD MOST		EQUIPMENT, SCRAPERS AND OTH COMPLETED LIME STABILIZED AR TRUCKS AND ROLLERS USED IN APPROVAL OF THE ENGINEER.
		CONTRACTOR SHALL COVER OPEN EXCAVATIONS IN PUBLIC S PLATES DURING NON—WORKING HOURS.		2 * 1	14.	ON COMPLETED AREAS UNLESS COMPACTED AND TESTED FOR A FORMS SHALL BE EITHER WOOD
		ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DI DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTR THE SATISFACTION OF THE OWNING AUTHORITY. ALL CONSTI COMPLY WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINA' REQUIREMENTS.	RUCTION SH	ALL FE RESTORED TO ORM RUNOFF SHALL	15	SUFFICIENTLY STAKED TO AVOID BOARDS SHALL BE STAKED WITH POUR. METAL STAKES ARE APP REINFORCING SHALL BE SECURE
	7.	EXISTING PAVEMENTS, CURBS, SIDEWALKS, CULVERTS AND DI DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE R THAN THEIR ORIGINAL CONDITION AT CONTRACTOR EXPENSE.	REPLACED TO	ADJACENT TO THE WORK) EQUAL OR BETTER		SHALL BE SECURELY TIED. RE USE. PLASTIC CHAIR OF THE C SUFFICIENT TO SUPPORT REINFO
		CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON CO GOOD AS OR BETTER THAN THE CONDITION PRIOR TO START TAKE NECESSARY ACTIONS TO PROTECT THE EXISTING SURF/ FROM THE EQUIPMENT USED. ALL TRACKED MACHINERY (ST	TING WORK. ACES OUTSII TREET PADS	CONTRACTOR SHALL DE THE WORK AREA INCLUDED) SHALL NOT	16.	PRIOR TO CONCRETE PLACEMEN FORM GRADES TO THE ENGINEE BE RECORDED AT 10' INTERVAL PRIOR TO CONCRETE PLACEMEN
		BE OPERATED DIRECTLY ATOP THE PAVEMENT WITHOUT APPR OF THE SURFACES. ANY MARRED OR DISTRESSED AREAS S WITH NEW MATERIALS TO THE SATISFACTION OF THE ENGINE AREAS SHALL BE MADE KNOWN TO THE ENGINEER PRIOR TO	ROPRIATE PA SHALL BE RI ER. ANY E	ADDING AND PROTECTION EMOVED AND RESTORED XISTING DISTRESSED	17.	CONCRETE FOR STREET PAVEME THAN FIVE AND ONE HALF (5 1 HAVE MORE THAN SIX AND ONE SLUMP SHALL NOT EXCEED FIVE
		ALIGNMENT, CENTERLINE CURVE DATA AND STATIONING TO B SURVEY FROM APPROVED SUBDIVISION PLAT (OR APPROVED AND ELEVATIONS OF ALL CONNECTIONS TO EXISTING FACILITI WORK START. CONTRACTOR TO NOTIFY OWNER'S REPRESEN PRIOR TO CONSTRUCTION.	PLOT FOR	OFF SITE EASEMENTS),		STRENGTH OF THREE THOUSANE CONCRETE SHALL BE PLACED IN POSSIBLE. USE OF AN APPROM AND SMALL AREAS WHERE A VI "JITTERBUG" SHALL BE USED.
	10.	CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPE PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFF TO COMMENCEMENT OF WORK.	ECTORS, SUP FECTED BY	PERINTENDENTS, OR HIS OPERATIONS PRIOR		WILL ALSO BE REQUIRED. ALL SURFACE SHALL BE TYPICALLY AS REQUIRED BY THE APPLICAT
	11.	CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCT PRIOR TO COMMENCEMENT OF WORK.	ION PERMITS	S HAVE BEEN OBTAINED		FLY ASH SHALL MAKE UP FROM SHALL CONFORM TO ASTM C 6 CURING COMPOUND SHALL BE
		ALL UTILITY TRENCHES TO BE BACK FILLED TO 90 PERCENT DENSITY UNLESS OTHERWISE NOTED.				OF ONE GALLON PER TWO HUN EXPANSION JOINTS SHALL BE C
		ALL SURVEY, LAYOUT, MEASUREMENT, AND GRADE STAKE WO BAKER & LAWSON, INC. AS PART OF THE WORK UNDER THI BAKER & LAWSON, INC. WILL PROVIDE EXPERIENCED INSTRU	IS CONTACT.		201	AN APPROVED LIST RUBBERIZED COMPONENT POLYMERIC SELF L
		AND SUCH INSTRUMENTS, TOOLS, STAKES, AND OTHER MATE SURVEY, LAYOUT AND MEASUREMENT WORK.	ERIALS REQU	JIRED TO COMPLETE THE	21.	CONTRACTOR WILL NOT PERMIT OF SEVEN (7) CURING DAYS AN HUNDRED (3500) P.S.I. TAKES DEPARTMENT.
	15.	CONSTRUCTION DEBRIS AND OTHER UNCLASSIFIED UNSUITABI HAULED TO A STATE APPROVED DISPOSAL SITE OR AS DIRE EXISTING LANDFILL APPROXIMATELY 10 MILES FROM THE PRI APPROVED FEE FACILITY. ALL REFUSE MATERIALS (BROKEN SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPE	CTED BY TH OJECT SITE CONCRETE,	IE ENGINEER. AN IS THE NEAREST STATE	22.	CONCRETE FOR CURB SHALL BI MINIMUM FIVE (5) SACK CEMEN SMALL AGGREGATE BATCH DESIG
	16.	PLAN QUANTITIES WILL BE USED FOR FINAL PAYMENT UNLES DURING CONSTRUCTION.	SS DESIGN	CHANGES ARE MADE	23.	A CONCRETE MIX DESIGN OF C STANDARD CONCRETE BATCH DE OF TXDOT MATERIAL SPECIFICAT
		CONSTRUCTION NOTES FOR PAVING & DRAINA	ROL DEVICES			VOLUME OF THE SPECIFICAT VOLUME OF THE SPECIFIED CEN MINIMUMS AND DEVELOPMENT F IN EFFECT AND SHALL BE VERI BY A GEOTECHNICAL LAB AND S ENGINEERING/PUBLIC WORKS D
		FILL SHALL BE PLACED IN MAXIMUM 8" LOOSE LIFTS AND ( DENSITY AS DETERMINED USING TESTING METHOD ASTM D69	98.		24.	ALL PAVEMENT SAW CUT REQUI PAVING REMOVAL PAY ITEM REG
		CONTRACTOR RESPONSIBLE FOR MAINTAINING BARRICADES TO NEW PAVEMENT UNTIL PROJECT IS COMPLETED AND ACCEPT AUTHORIZED BY ENGINEER.	ED BY PRO	PER AUTHORITY OR AS	25.	REINFORCED FILTER FABRIC OR ALONG THE EDGE OF ALL NEWI
		B-B INDICATES ROAD WIDTH TO BACK OF CURB. CURB RAD INDICATES TOP OF CURB ELEVATIONS (BASED ON 4" CURB INDICATES TOP OF PAVEMENT ELEVATION. TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT M	UNLESS OT	HERWISE NOTED) T.P.		THE CONTRACTOR WILL BE RES SUSPEND OPERATIONS DURING NO CONCRETE SHALL BE PLACE CONCRETE SHALL BE PLACED V
		INTERVALS (SAWCUTS @ 20'(2 1/2"DEEP), LONGITUDINAL JC 14-FOOT SPACING. WOOD JOINT SHALL BE SOUND HEART	DINTS SHALL REDWOOD.	. BE AT MAXIMUM OF		THE CONTRACTOR SHALL KEEP TO PLACE OVER AND PROTECT UNPREDICTED RAINS.
		6-INCH CONCRETE PAVEMENT TO BE 5.5 SACK MIX MIN. (3 CONFORM TO ASTM A-615, GRADE 60. PROVIDE MINIMUM SAW CUT TO EXPOSE EXISTING LONGITUDINAL STEEL REQUIR	18-INCH L	APS. (36 BAR DIA)	27.	CUL-DE-SACS TO BE PAVED C
	7.	TWELVE-INCH (12") OVERLAP OF PROPOSED AND EXISTING WHEN MAKING A CONNECTION TO EXISTING CONCRETE PAVE LONGITUDINAL STEEL DIFFERS FROM PROPOSED STEEL SPACE	LONGITUDIN MENT. WHE	AL REINFORCING STEEL ERE SPACING OF EXISTING		CONTRACTOR SHALL PROVIDE R CITY OF ANGLETON.
		USE PLASTIC CHAIRS TO SUPPORT REINFORCEMENT AT 24-	INCH SPACI	NG EACH WAY.		SEPARATION DISTANCES FOR AL GOVERNED BY THE "TEXAS NAT REGULATIONS FOR DESIGN CON CRITERIA FOR SEWAGE SYSTEMS
	9.	SUBGRADE TO BE STABILIZED 1-FOOT BACK OF PROPOSED EXCESS LIME STABILIZED SOIL SHALL BE UTILIZED IN THE F DRIVEWAYS. THERE WILL BE NO PAYMENT FOR PREPARING SIDEWALKS. THIS WORK SHALL BE CONSIDERED INCIDENTAL	PREPARATION SUBGRADE	N OF SUBGRADE FOR FOR DRIVEWAYS AND		MAINTAIN 12-INCH MINIMUM VE AND CULVERTS, UNLESS OTHER
		PAY ITEMS. SUBGRADE PREPARATION FOR DRIVEWAYS AND ROLLING. SOFT AREAS TO BE EXCAVATED AND RECOMPACT	PAVING SHA ED TO ADJA	ALL INCLUDE PROOF	4.	WHERE SANITARY SEWER LINE ( THAN 6-INCHES VERTICAL SEP)
		USE CONTINUOUS LONGITUDINAL REINFORCING BAR IN CURE BACK FILL AND BEDDING FOR HEADWALL STRUCTURES, TYPE STORM SEWERS SHALL BE WITH 1.5 SACK CEMENT. STABIL	E "C" INLET	S, R.C.P. LEADS AND		RATED P.V.C. SANITARY SEWER INCLUDE COST OF WATER LINE SEWER IN APPROPRIATE SIZES.
		TO A DENSITY OF AT LEAST 90% OF DENSITY DETERMINED RELATION (ASTM D-698) AT OPTIMUM MOISTURE AND SHALL 3 HRS. OF MIXING. TEMPORARY TRAVEL WAY SURFACE SHA	BY STANDAI L BE PLACE ALL BE WITH	RD MOISTURE—DENSITY ID AND FINISHED WITHIN H CEMENT STABILIZED		CONTRACTOR TO NOTIFY OWNER TRENCH CONDITIONS.
		LIMESTONE. PAYMENT FOR THESE ITEMS SHALL BE SUBSID BID ITEMS. VERIFICATION OF CEMENT STABILIZED SAND MIX REQUEST OF ENGINEER.	KTURE SHALI	L BE FURNISHED UPON	6.	SANITARY SEWER LEADS UNDER BACK FILLED WITH CEMENT STA CEMENT STABILIZED SAND BACK FOR LEADS.
	12.	THE SUBGRADE SHALL BE BROUGHT TO THE REQUIRED GRA (BLUE TOPS) AND APPROVED BY THE ENGINEER BEFORE LI			7.	LOW PRESSURE AIR TEST SHAL SHALL BE AS ESTABLISHED BY NO SEPARATE PAY.
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				DESIGNED MS		
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300 E. CEDAR ST, ANGLETON, TEXAS PHONE: (979) 849–6681 FAX: (979) 84 RÉG. NO. F-825

LIME SHALL BE SEVEN PERCENT (7%) OF THE DRY WEIGHT OF SOIL C.F.) OR THIRTY ONE AND ONE HALF (31.5) POUNDS PER SQUARE STABILIZED SUBGRADE. LIME STABILIZED SUBGRADE SHALL NOT BE ICH IN EXCESS OF THE REQUIRED DEPTH. LIME STABILIZED UGHT TO THE OPTIMUM MOISTURE CONTENT DURING THE FIRST MIXING CURE FOR TWO CURING DAYS BEFORE FINAL MIXING CAN BEGIN. OMPLETED AND BEFORE SOIL DENSITY TESTS ARE TAKEN. LIME ALL BE BROUGHT TO THE REQUIRED GRADE BY THE USE OF GRADE APPROVED BY THE ENGINEER. DENSITY SHALL BE NINETY-FIVE TANDARD PROCTOR DENSITY AT OPTIMUM MOISTURE. TESTED AND

LL BE KEPT MOIST CURED ON A DAILY BASIS WITH WATER TRUCKS HOSES FOR THE ENTIRE PERIOD THE SURFACE REMAINS UNCOVERED AFTER FINAL TESTING AND APPROVAL IS COMPLETE, TRACK D OTHER HEAVY EQUIPMENT WILL NOT BE PERMITTED ON THE ED AREA. LIGHT MOTOR GRADERS, RUBBER TIRED TRACTORS, WATER ED IN THE FINISHING OPERATIONS WILL BE PERMITTED WITH THE ER. CONCRETE AND LOADED HAUL TRUCKS ARE STRICTLY PROHIBITED LESS THE TRAVELED AREA REGARDLESS OF CONDITION IS REMIXED FOR APPROVAL A SECOND TIME.

WOOD OR STEEL, OF GOOD QUALITY, FREE OF WARP AND AVOID SHIFTING WHEN LOAD IS APPLIED. ALL REDWOOD EXPANSION WITH 1X2 REDWOOD STAKES AND ALLOWED TO REMAIN WITHIN THE APPROVED FOR USE TO STAKE METAL KEYWAYS.

ECURELY TIED AT ALL INTERSECTIONS AND SPLICES. ALL DOWELS REINFORCEMENT SHALL BE CLEAN AND FREE OF RUST AT TIME OF THE CORRECT HEIGHT SHALL BE USED. SPACING SHALL BE REINFORCEMENT.

EMENT, CONTRACTOR SHALL PRESENT A CERTIFIED COPY OF TOP OF GINEER FOR REVIEW AND APPROVAL. ELEVATIONS OF FORMS SHALL ERVALS. ADJUSTMENTS TO FORMS SHALL BE COMPLETE 4 HRS. FMENT.

AVEMENTS SHALL BE "CLASS A" CONCRETE, SHALL NOT HAVE LESS (5 1/2) SACKS OF CEMENT PER CUBIC YARD, AND SHALL NOT ONE HALF (6 1/2) GALLONS OF WATER PER SACK OF CEMENT. ED FIVE (5) INCHES AND SHALL DEVELOP A MODULUS OF RUPTURE USAND FIVE HUNDRED (3500) P.S.I. AT TWENTY EIGHT (28) DAYS. CED IN SUCH A MANNER AS TO REQUIRE AS LITTLE HANDLING PPROVED VIBRATING SCREED WILL BE REQUIRED. AT INTERSECTIONS A VIBRATORY SCREED CAN NOT BE USED, A HAND VIBRATOR OR ED. USE OF A TEN FOOT (10') CONCRETE PAVEMENT STRAIGHT EDGE ALL EXPOSED JOINTS SHALL BE EDGED AS NOTED ON DETAILS. ALLY A BELT FINISH OR BROOM FINISH (COARSE, MEDIUM OR LIGHT) PLICATION AND DIRECTED BY THE ENGINEER.

FROM 20-25% BY VOLUME OF THE SPECIFIED CEMENT VOLUME AND C 618. CLASS F.

BE TYPE II WITH WHITE PIGMENT. APPLIED AT THE UNDILUTED RATE HUNDRED (200) SQUARE FEET.

BE CLEANED, WIRE BRUSHED, BLOWN OR FLAME DRIED SEALED WITH ERIZED HOT LAID ASPHALT JOINT AND CRACK SEALANT OR A TWO (2) ELF LEVELING COLD APPLIED SEALANT.

ERMIT TRAFFIC ON NEW CONCRETE PAVEMENT UNTIL BOTH A MINIMUM AYS AND MODULUS OF RUPTURE STRENGTH OF THIRTY THOUSAND FIVE AKES PLACE OR AS APPROVED BY THE ENGINEER/PUBLIC WORKS

ALL BE A 3000 P.S.I. PERFORMANCE STRENGTH CONCRETE WITH A EMENT PER CUBIC YARD CONTENT. CURB CONCRETE MIX MAY BE A DESIGN.

OF CONCRETE PLUS FLY ASH MAY BE SUBSTITUTED IN LIEU OF THE CH DESIGN. THE FLY ASH SHALL CONFORM TO THE REQUIREMENTS IFICATION D-9-8900, AND SHALL NOT EXCEED 25% BY ABSOLUTE D CEMENT CONTENT. THE MODULUS OF RUPTURE STRENGTHS ENT PERIOD OF THE STANDARD CONCRETE MIX DESIGN SHALL REMAIN VERIFIED BY A CONCRETE BATCH MIX DESIGN PREPARED AND TESTED AND SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY KS DEPARTMENT PRIOR TO PAVING OPERATIONS.

REQUIRED IN THE PLANS SHALL BE CONSIDERED SUBSIDIARY TO THE REQUIRING IT.

OR BLOCK SOD SHALL BE PLACED 16" (ONE BLOCK WIDTH) WIDE NEWLY CONSTRUCTED CURBS AND TO DRIVEWAY REPLACEMENT LIMITS.

RESPONSIBLE FOR ANALYZING WEATHER CONDITIONS AND TO RING PERIODS WHEN ADVERSE WEATHER CONDITIONS APPEAR LIKELY. PLACED WHEN THE TEMPERATURE IS 35°F AND RISING. HOWEVER, NO CED WHEN THE CONCRETE TEMPERATURE IS ABOVE 100°F. KEEP SUFFICIENT LENGTH OF COVERING MATERIAL ON THE JOB SITE DTECT THE SURFACE OF "FRESH" CONCRETE DURING PERIODS OF

VED COMPLETELY WITH NO ISLANDS

### RUCTION NOTES

IDE RECORD OF LOCATION OF ALL STACKS, STUBS, LEADS, ETC. TO

OR ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL BE NATURAL RESOURCE CONSERVATION COMMISSION RULES AND CONSERVATION COMMISSION RULES AND REGULATIONS FOR DESIGN STEMS "SECTION 317.20," LATEST PRINTING.

IM VERTICAL CLEARANCE AT CROSSINGS BETWEEN SANITARY SEWERS OTHERWISE NOTED.

LINE CROSSES A WATER LINE WITH LESS THAN 9-FEET BUT MORE SEPARATION, PROVIDE ONE MINIMUM 18-FOOT JOINT OF PRESSURE EWER (ASTM D2241, CLASS 150, SDR 26) CENTERED ON WATER LINE. LINE CROSSING IN UNIT PRICE BID PER LINEAR FOOT FOR SANITARY

OWNER'S REPRESENTATIVE UPON ENCOUNTERING ANY UNSUITABLE

JNDER OR WITHIN 1' OF EXISTING OR FUTURE PAVEMENT SHALL BE IT STABILIZED SAND UP TO WITHIN 1' OF TOP OF PAVING SUBGRADE. BACK FILL FOR LEADS SHALL BE INCLUDED IN THE BID UNIT PRICE

SHALL BE CONDUCTED PER TNRCC TAC 317.2. HOLDING TIMES D BY TNRCC. CONTRACTOR TO PROVIDE TEST PLUGS AND RISERS.

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- CONTRACTOR TO OPEN CUT ALL SANITARY SEWER CONSTRUCTION UNLESS NOTE OTHER WISE, SEWER SERVICES TO BE INSTALLED FULL WIDTH OF ROADWAY .- NO HALF STREET INSTALLATIONS.
- 9. CONTRACTOR SHALL AT ALL TIMES PROVIDE MAXIMUM UNINTERRUPTED SERVICE AND SHALL AVAIL OF ANY ROUTING METHOD AND EQUIPMENT TO ACCOMPLISH THIS.
- 10. ALL SINGLE AND DOUBLE SERVICE LEAD SHALL BE A MINIMUM SIX INCH (6") UNLESS OTHERWISE DIRECTED BY THE ENGINEER/PUBLIC WORKS AND/OR FIELD ADJUSTED BY THE UTILITY DEPARTMENT IN THE FUTURE. WATER CONSTRUCTION NOTES

CONTRACTOR SHALL PROVIDE ADEQUATE THRUST BLOCKING TO WITHSTAND TEST PRESSURE AS SPECIFIED IN CONTRACT DOCUMENTS. THRUST BLOCKING SHALL BE CLASS "B" CONCRETE 2500 P.S.I. AND SHALL BE SUBSIDIARY TO THE BID ITEM PERTINENT TO ITS USE. ALL CEMENT STABILIZED SAND BACKFILL SHALL BE 1.5 SK/CY CEMENT CONTENT. ALL M.J. D.I. FITTINGS WILL HAVE M.J. RESTRAINTS (STARGRIP OR EQUAL) WRAP FITTINGS & RESTRAINTS WITH 10 MIL

- 2. SEPARATION DISTANCES OF ALL WATER MAIN AND SANITARY SEWER MAIN CONSTRUCTION SHALL BE GOVERNED BY THE "TEXAS NATURAL RESOURCE CONSERVATION COMMISSION RULES AND REGULATIONS FOR DESIGN CRITERIA FOR SEWAGE SYSTEMS," SECTION 317.20, LATEST PRINTING.
- 3. ALL 4" THROUGH 12" WATER MAINS TO BE P.V.C. PIPE, AWWA C-900, CLASS 150, SDR 18, MEETING THE REQUIREMENTS OF ANSI/NSF 61 UNLESS OTHERWISE NOTED.
- 4. WATER LINES UNDER OR WITHIN 1 FEET OF NEW OR EXISTING PAVEMENTS (STREETS AND DRIVEWAYS) SHALL BE BACK FILLED WITH CEMENT STABILIZED SAND AS SPECIFIED IN THE CONSTRUCTION DETAIL.
- PROVIDE A MINIMUM SIX-INCHES (6") OF CLEARANCE AT STORM SEWER AND WATER LINE 5. CROSSINGS.
- 6. 4-INCH THROUGH 12-INCH LINES TO HAVE A MINIMUM OF 4'-O" COVER BELOW TOP OF CURB. UNLESS OTHERWISE NOTED, VARY FLOW LINE UNIFORMLY FROM DEPTH SHOWN ON PLANS.
- 7. CENTERLINE OF FIRE HYDRANT TO BE LOCATED AT 3' FROM BACK OF CURB WITH CENTERLINE OF STEAMER NOZZLE 22 INCHES ABOVE FINISHED GRADE. TURN STEAMER OUTLET TO FACE STREET.
- 8. WHERE WATER LINE CROSSES SANITARY SEWER LINE OR LEAD WITH LESS THAN NINE FEET (9') VERTICAL SEPARATION, PROVIDE ONE MINIMUM 18-FOOT JOINT OF WATER LINE CENTERED ON LEAD. INCLUDE COST OF LEAD CROSSING IN UNIT PRICE BID PER LINEAR FOOT FOR WATER LINE IN APPROPRIATE SIZES.
- 9. THE CONTRACTOR AT ALL TIMES PROVIDE MAXIMUM UNINTERRUPTED FLOW TO ALL SERVICES AND MAINS AND SHALL AVAIL OF ANY ROUTING METHOD AND EQUIPMENT TO ACCOMPLISH THIS.

### <u>CENTERPOINT ENERGY / ENTEX NOTES</u>

POLY.

CAUTION: UNDERGROUND GAS FACILITIES LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE, LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE NOT USUALLY SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (979) 849-4364 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- \* WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (800) 752-8036 OR (713) 659-2111 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- \* WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- \* WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- \* FOR EMERGENCIES REGARDING GAS LINES CALL (800) 659-2111 OR (713) 659-2111.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-5769.

### WARNING: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL TEXAS NEW MEXICO ENERGY AT 888-866-7456.

### SBC NOTES

THE LOCATIONS OF SOUTHWESTERN BELL TELEPHONE CO. UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

### TEXAS NEW MEXICO POWER NOTES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTMPETD TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL TEXAS NEW MEXICO POWER AT (888) 866-7456.

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SURVE

The seal appearing on this document was authorized by Miguelangel A. Sauceda P.E. 121992 My Mal Date: 12/6/21

OWNER: CHARLES VON SCHMIDT WATERSTONE DEVELOPMENT GROUP 185 CEDAR POINT DRIVE LIVINGSTON, TX 77351 936-646-6767

PLAN:	
PROFILE:	
HORIZONTAL:	
VERTICAL:	

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### GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE ANGLETON CONSTRUCTION MANUAL (ACM) AND LAND DEVELOPMENT CODE, HEREAFTER REFERRED TO THE ACM AND THE LDC.

2. APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, ADEQUACY, AND COMPLIANCE OF THE SUBMITTED PLANS.

3. ALL RESPONSIBILITY FOR RESTS ON DESIGN ENGINEER WHO PREPARED THEM, IN APPROVING THESE PLANS, THE CITY MUST RELY ON THE ADEQUACY AND ACCURACY OF THE DESIGN ENGINEER.

4. DESIGNS SHALL BE IN COMPLETE COMPLIANCE WITH THE LDC AND THE ACM. ANY WAIVER. DEVIATION, VARIANCE, OR EXCEPTION FROM ANY SPECIFIC REQUIREMENT(S) OF THE LDC OR ACM THAT WERE NOT EXPRESSLY REQUESTED WHEN PLANS ARE SUBMITTED, SHALL NOT BE CONSTRUED TO HAVE BEEN GRANTED IF PLANS ARE APPROVED. IT IS THE RESPONSIBILITY OF THE ENGINEER TO MAKE SUCH A WAIVER PROACTIVELY WHEN PLANS ARE SUBMITTED.

5. A MINIMUM OF TWO EXISTING BENCHMARKS SHOULD BE SHOWN ON THE PLANS. IN ADDITION, TWO PERMANENT BENCHMARKS PER SUBDIVISION SHALL BE INSTALLED IN EACH NEW SUBDIVISION TO INCLUDE DESCRIPTION, LOCATION, AND ELEVATION AND TIE TO CITY STANDARDS.

6. CAST BRONZE SURVEY MARKERS SHALL BE PLACED IN CONCRETE IN PERMANENT, ACCESSIBLE LOCATIONS AT THE TIME OF CONSTRUCTION. THE LOCATIONS OF THE MARKERS SHALL BE INDICATED ON THE CONSTRUCTION PLANS. A MINIMUM OF ONE MARKER SHALL BE PLACED FOR EACH 20 ACRES OF THE PROJECT.

7. PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY, THE DEVELOPER'S CONSULTING ENGINEER, CONTRACTOR, AND ANY OTHER AFFECTED PARTIES. THE CITY SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

8. THE CONTRACTOR SHALL PROVIDE THE CITY A MINIMUM OF 48 HOURS' NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION.

9. BARRICADES. BUILT TO CITY SPECIFICATIONS, SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB SAFETY. 10. IF BLASTING IS PLANNED, A BLASTING PERMIT MUST BE SECURED PRIOR TO COMMENCEMENT OF ANY BLASTING.

11. ANY EXISTING PAVEMENT, CURBS, AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE BEFORE ACCEPTANCE OF THE SUBDIVISION. 12. THE LOCATION OF ANY WATER OR WASTEWATER LINES SHOWN ON THE PLANS MUST BE VERIFIED BY THE PUBLIC WORKS DEPARTMENT.

13. USE ONE CALL UTILITY SYSTEM: DIAL 1-800-344-8377, 48 HOURS BEFORE YOU DIG.

14. ALL STORM SEWER PIPES TO BE CLASS III RCP UNLESS NOTED OTHERWISE. SPECIAL NOTES FOR PLANS, WHEN APPLICABLE.

15. THE SUBGRADE MATERIAL IN KIBER RESERVE (PHASE II) WAS TESTED BY GEOSCIENCES ENGINEERING AND TESTING ON MAY 28, 2020 AND THE STREET SECTION DESIGNED ACCORDING TO THE LDC AND ACM.

16. CONSTRUCTED STREET SECTIONS SHALL SHOW THE FOLLOWING:

PROVIDE STREET NAMES, WIDTH OF R.O.W., OR OTHER METHODS TO IDENTIFY PROPOSED DESIGN OF DIFFERENT PAVEMENT THICKNESS. IN WRITING OR GRAPHICALLY, DESCRIBE THE STREET SECTION(S) TO BE CONSTRUCTED.

MANHOLE FRAMES, COVERS, AND WATER VALVE COVERS WILL BE RAISED TO FINISHED PAVEMENT GRADE AT THE OWNER'S EXPENSE BY A QUALIFIED CONTRACTOR WITH CITY INSPECTION, ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION.

CROWNS OF INTERSECTING STREETS WILL CULMINATE IN A DISTANCE OF 40 FEET FROM THE INTERSECTING CURB LINE UNLESS OTHERWISE NOTED. INLETS ON THE INTERSECTING STREET SHALL NOT BE CONSTRUCTED WITHIN 40 FEET OF THE VALLEY GUTTER, UNLESS OTHERWISE NOTED

PRIOR TO FINAL ACCEPTANCE OF A STREET OUTSIDE THE CITY LIMITS, STREET NAME SIGNS CONFORMING TO COUNTY STANDARDS SHALL BE INSTALLED BY DEVELOPER. e. SIDEWALK REQUIREMENTS (GIVE STREET NAME AND LOCATION OF REQUIRED SIDEWALK, I.E.,

NORTH, SOUTH, EAST, OR WEST SIDE). f. A CURB LAY DOWN WHERE REQUIRED WHEN ALL POINTS OF SIDEWALKS INTERSECTS CURBS.

INSIDE THE CITY LIMITS, SIDEWALKS SHALL BE COMPLETED PRIOR TO ACCEPTANCE OF ANY DRIVEWAY APPROACHES AND/OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY. WHEN OUTSIDE THE CITY LIMITS, A LETTER OF CREDIT MAY BE POSTED OR OTHER SUITABLE FINANCIAL ARRANGEMENTS MAY BE MADE TO ENSURE CONSTRUCTION OF THE SIDEWALKS. IN EITHER CASE, SIDEWALKS ADJACENT TO "COMMON AREAS", PARKWAYS, OR OTHER LOCATIONS ON WHICH NO BUILDING CONSTRUCTION WILL TAKE PLACE, MUST BE CONSTRUCTED PRIOR TO FINAL ACCEPTANCE OF THE SUBDIVISION. h. A LICENSE AGREEMENT FOR LANDSCAPING MAINTENANCE AND IRRIGATION IN STREET R.O.W.

SHALL BE EXECUTED BY THE DEVELOPER IN PARTY WITH THE CITY PRIOR TO FINAL ACCEPTANCE.

17. CALL THE CITY 48 HOURS PRIOR TO BEGINNING ANY WORK AND SCHEDULE A PRECONSTRUCTION MEETING WITH THE CITY AND ALL AFFECTED UTILITY PROVIDERS, THE GENERAL CONTRACTOR, THE DEVELOPER AND THE DEVELOPER'S ENGINEER.

CONSTRUCTION SEQUENCING

CALL THE CITY 48 HOURS PRIOR TO BEGINNING ANY WORK AND SCHEDULE A PRECONSTRUCTION MEETING WITH THE CITY AND ALL AFFECTED UTILITY PROVIDERS, THE GENERAL CONTRACTOR, THE DEVELOPER AND THE DEVELOPER'S ENGINEER.

OBTAIN A DEVELOPMENT PERMIT FROM THE CITY.

PROVIDE THE CITY WITH EVIDENCE ALL TCEQ LICENSES AND REQUIREMENTS ARE UP TO DATE.

INSTALL TEMPORARY EROSION CONTROLS AND TREE PROTECTION FENCING PRIOR TO ANY CLEARING AND GRUBBING. NOTIFY THE CITY WHEN INSTALLED. ROUGH-CUT ALL REQUIRED OR NECESSARY FONDS. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUCH BE CONSTRUCTED PRIOR TO DEVELOPMENT OF ANY EMBANKMENT OR

EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A LOW-LEVEL OUTLET AND AN EMERGENCY OVERFLOW MEETING THE REQUIREMENTS OF THE LDC. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL FINAL RESTORATION IS ACHIEVED.

DELIVER APPROVED ROUGH-CUT SHEETS TO THE CITY ENGINEER PRIOR TO CLEARING AND GRUBBING. ROUGH GRADE STREETS. NO DEVELOPMENT OF EMBANKMENT WILL BE PERMITTED AT THIS TIME.

INSTALL ALL UTILITIES TO BE LOCATED UNDER THE PROPOSED PAVEMENT OR WITHIN THE ROAD RIGHT-OF-WAY.

DELIVER STORM SEWER CUT SHEETS TO THE CITY ENGINEER.

BEGIN INSTALLATION OF STORM SEWER LINES. UPON COMPLETION, RESTORE AS MUCH DISTURBED AREAS AS POSSIBLE, PARTICULARLY CHANNELS AND LARGE OPEN AREAS.

DELIVER FINAL GRADE CUT SHEETS TO THE CITY ENGINEER.

RE-GRADE STREETS TO SUB-GRADE.

ENSURE THAT UNDERGROUND UTILITY CROSSINGS ARE COMPLETED. LAY 1ST/ COURSE BASE MATERIAL ON STREETS.

INSTALL CURB AND GUTTER

LAY FINAL BASE COURSE ON ALL STREETS.

PLACE CONCRETE.

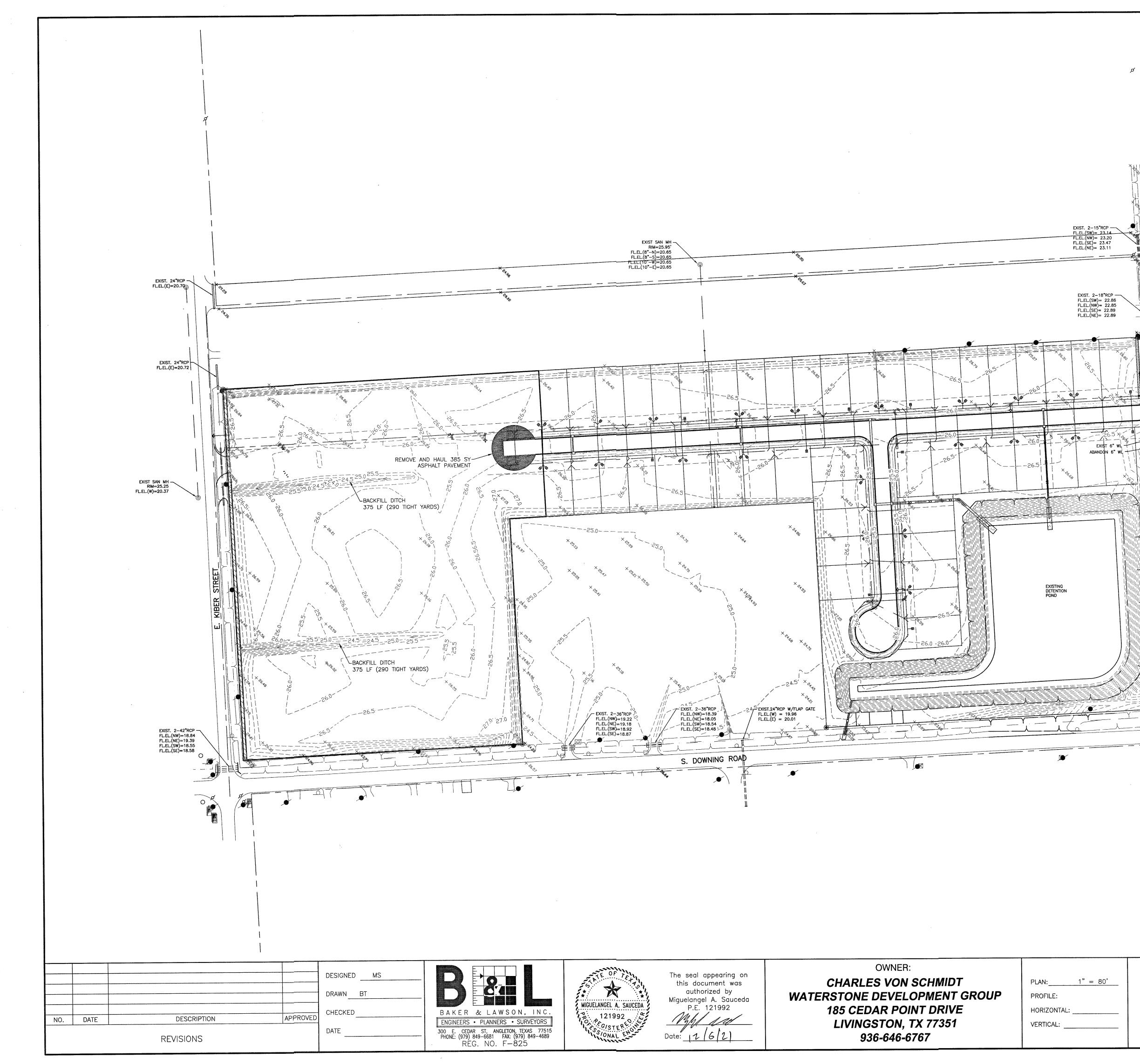
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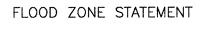
COMPLETE FINAL GRADING AND RESTORATION OF DETENTION, SEDIMENTATION/FILTRATION PONDS. COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE VEGETATION. REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROLS.

COMPLETE ANY NECESSARY FINAL DRESS UP OF AREAS DISTURBED.

KIBER RESERVE (PHASE II)
A 7.95 AC, 45-LOT SUBDIVISION
ANGLETON, TEXAS 77515

CONSTRUCTION NOTES





🦳 твм "А" EL=26.55'

- EXIST.3-30"RCP FL.EL.(SW)= 19.38 FL.EL.(S)= 19.56 X FL.EL.(SE)= 19.37

-9

EXIST 6"

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP No. 48039C0445K EFFECTIVE DECEMBER 30, 2020, REVISED BY CASE No. 03-06-2336P EFFECTIVE JUNE 5, 2004, ZONE X (UNSHADED) AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

THE SITE IS FULLY WITHIN ZONE X (UNSHADED) AREAS, OUTSITE THE 0.2% ANNUAL CHANCE FLOODPLAIN, ON PROPOSED FEMA PANEL 48039C0445K (NAVD 1988 DATUM)

PROJECT BENCHMARK

TXDOT L200203

A 5/8" I.R. WITH ALUMINUM CAP SET IN CONCRETE AT THE SOUTHEAST CORNER OF THE INTERSECTION OF S.H. 35 AND S. DOWNING ROAD AND 121' EAST OF THE CENTERLINE OF S. DOWNING ROAD. ELEVATION = 25.74 FEET NGVD29

TBM-A: A 60D NAIL SET IN A POWER POLE ON THE NORTH SIDE OF ORANGE STREET, EAST POLE OF THE 2 POLES AT THE NORTHWEST CORNER OF THE SUBJECT TRACT. ELEVATION = 26.55 FEET NGVD29

ALL COORDINATES SHOWN HEREON ARE IN GRID, BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, (NAD83) SOUTH CENTRAL ZONE, PER GPS OBSERVATIONS.

KIBER RESERVE (PHASE II) A 7.95 AC, 45-LOT SUBDIVISION ANGLETON, TEXAS 77515

EXISTING CONDITION

BASTROP

Rueben Welch Park

PROJECT LOCATION

Brazoria County Fairbrour

CALDWEL

FAIR

GIFFORD

AMPTON

CHEVY

LORRAINE

KYLE S

WYER

OS TRACCO

EMETERY

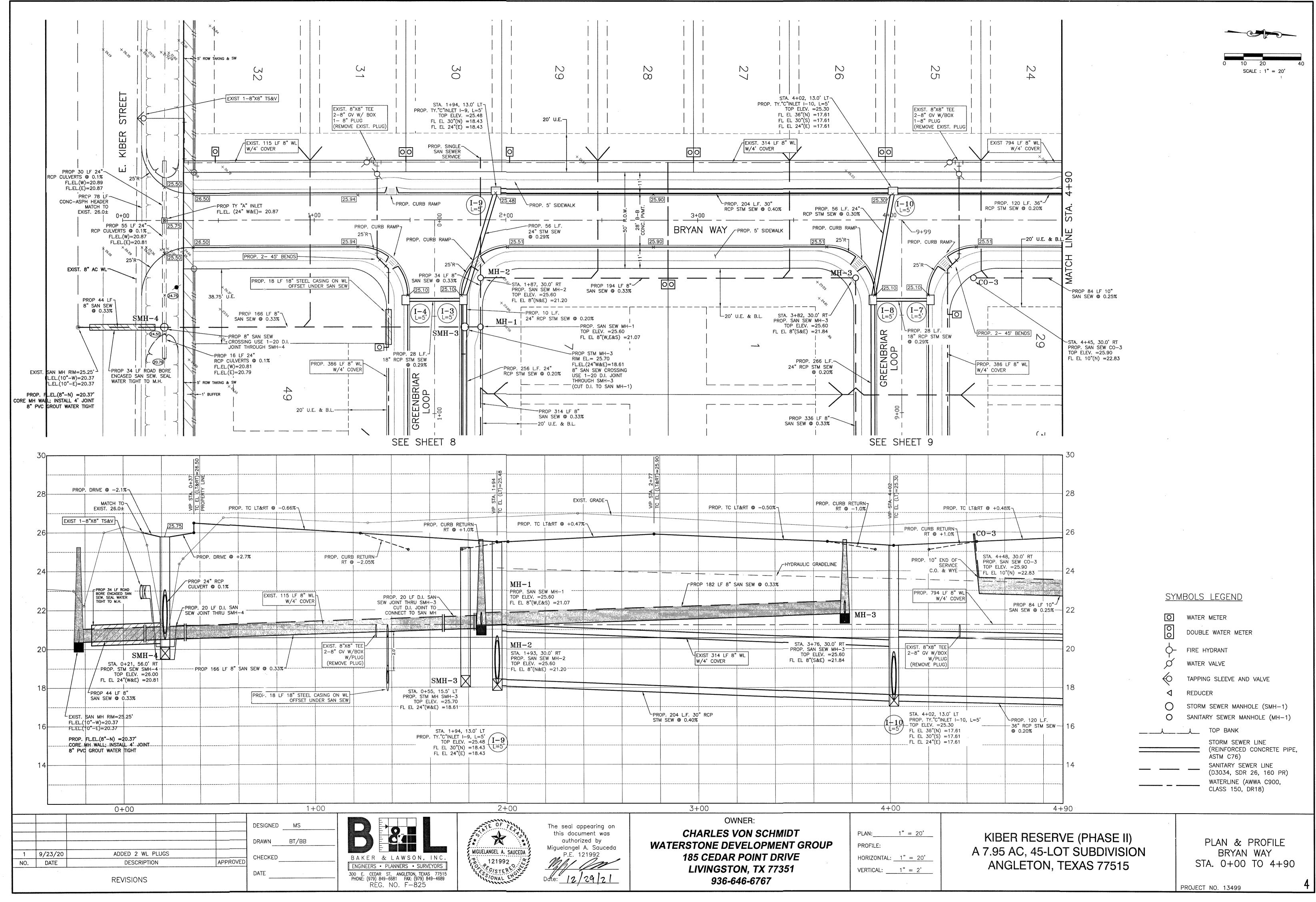
PARK

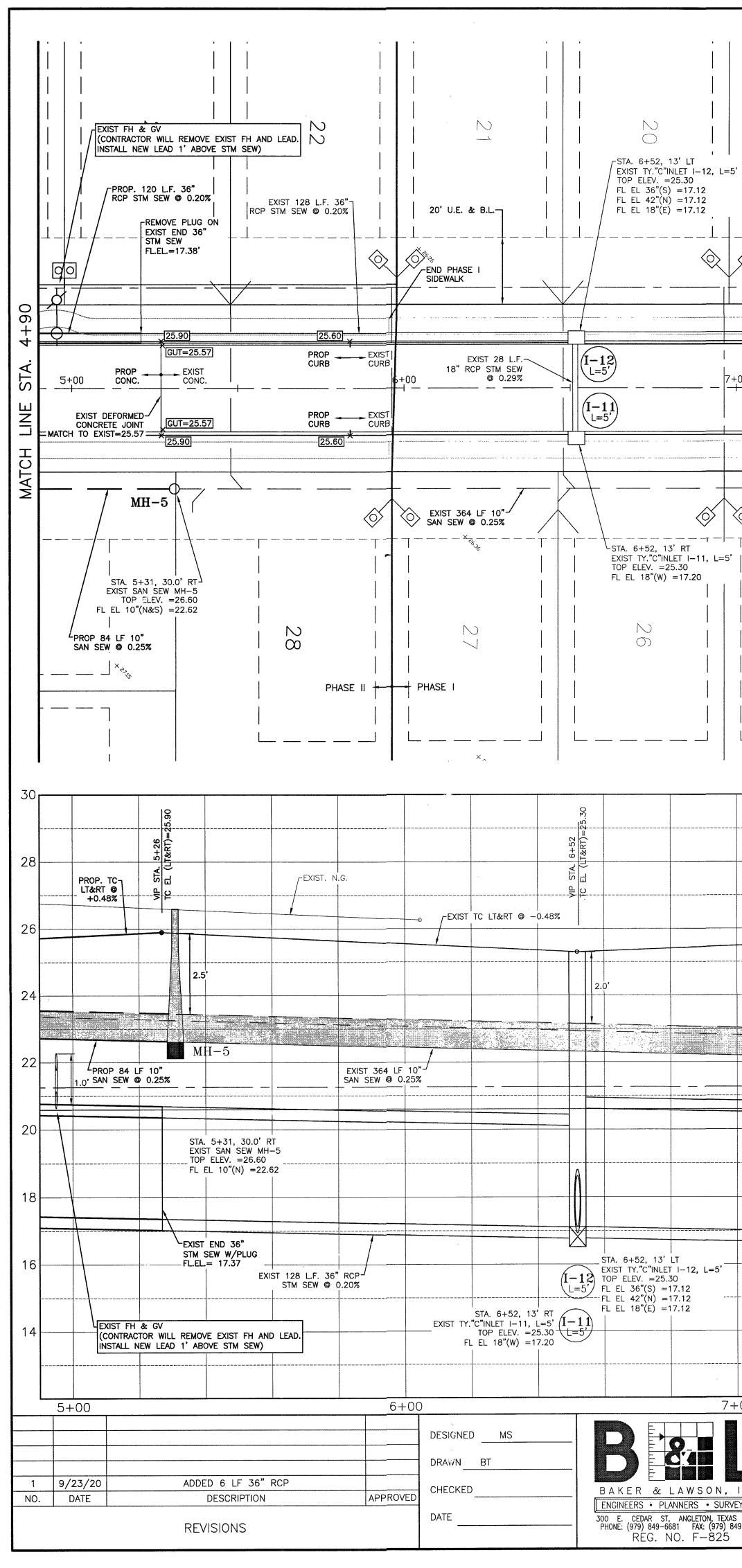
CAHILL

VICINITY MAP

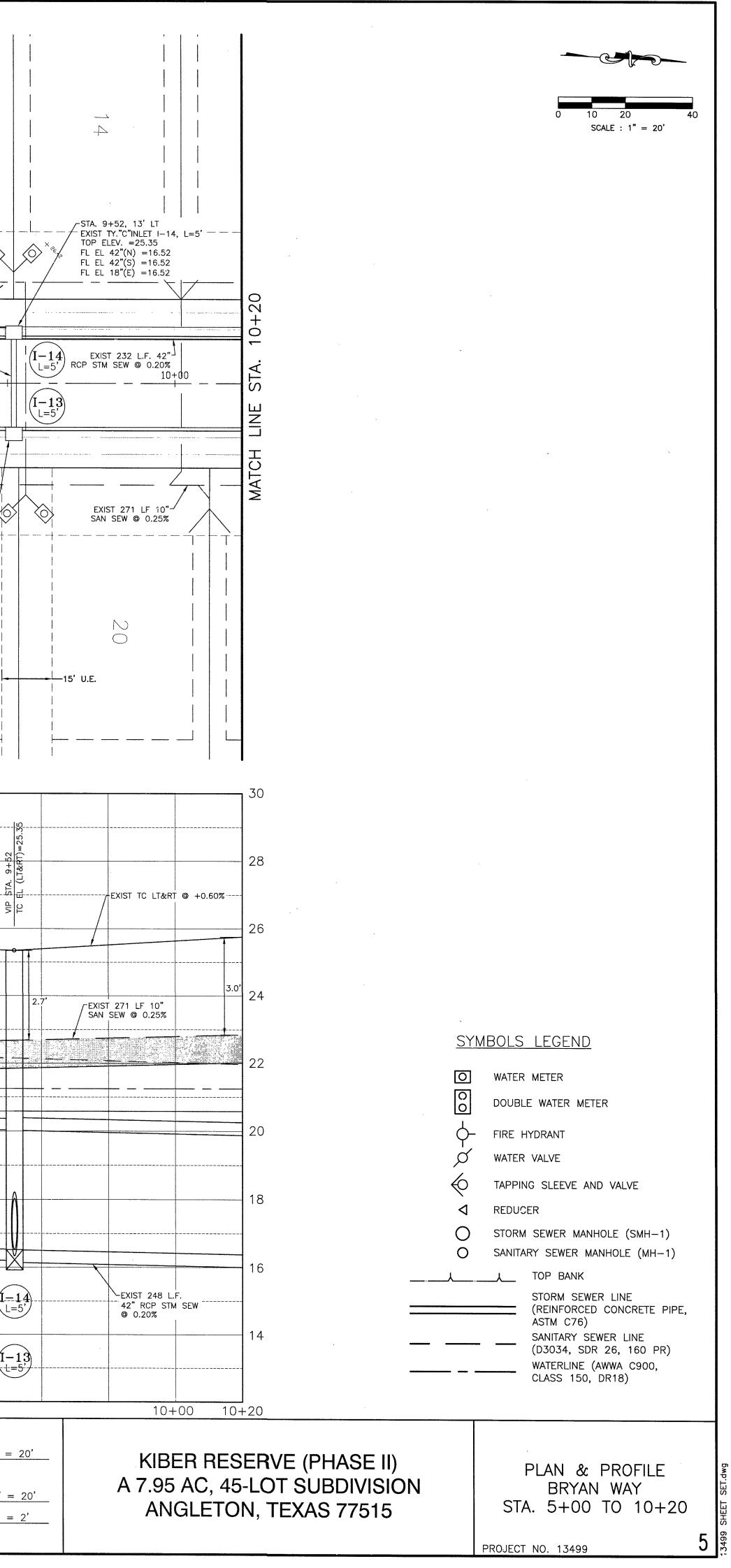
SCALE : 1" = 80'

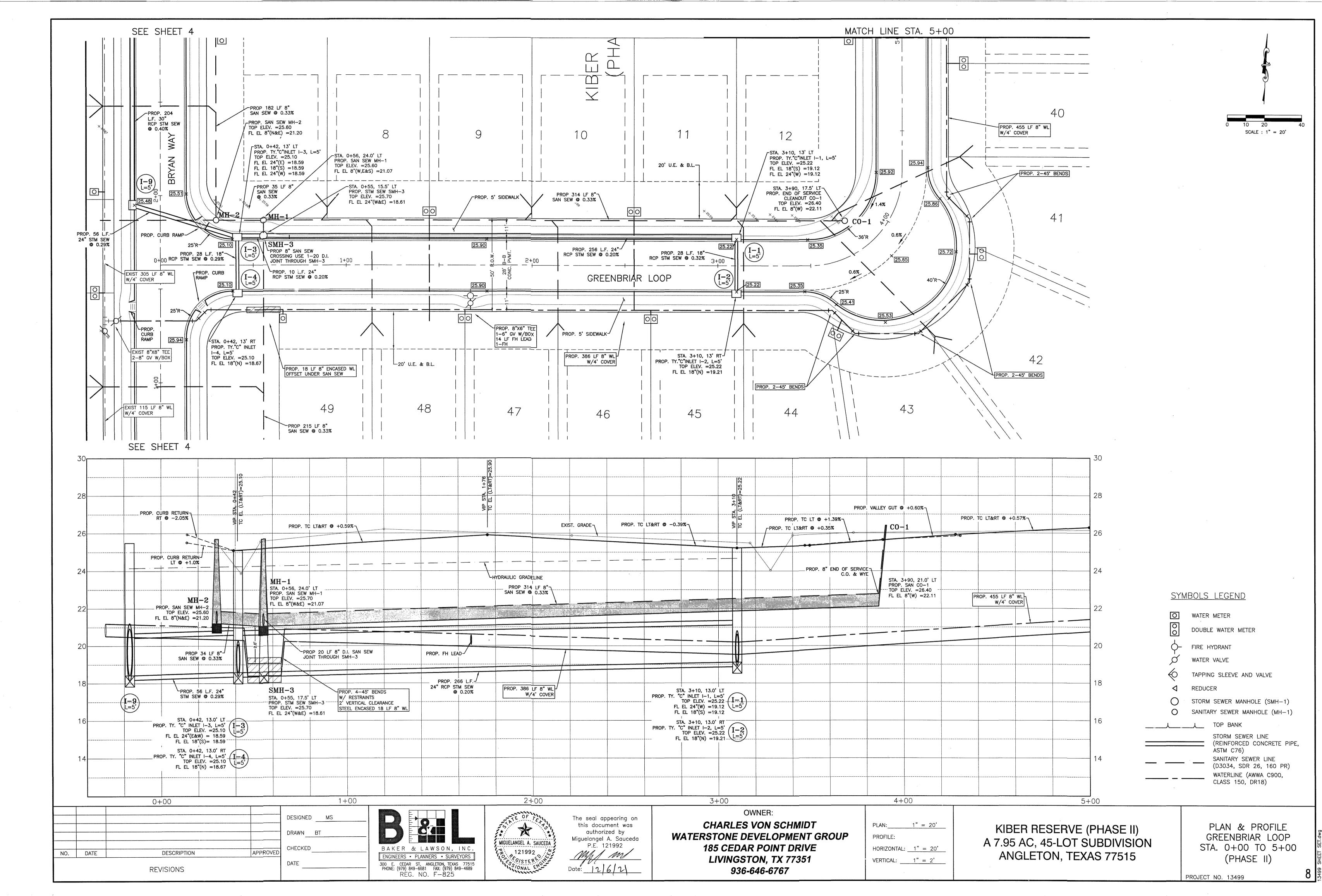
ANGLETON

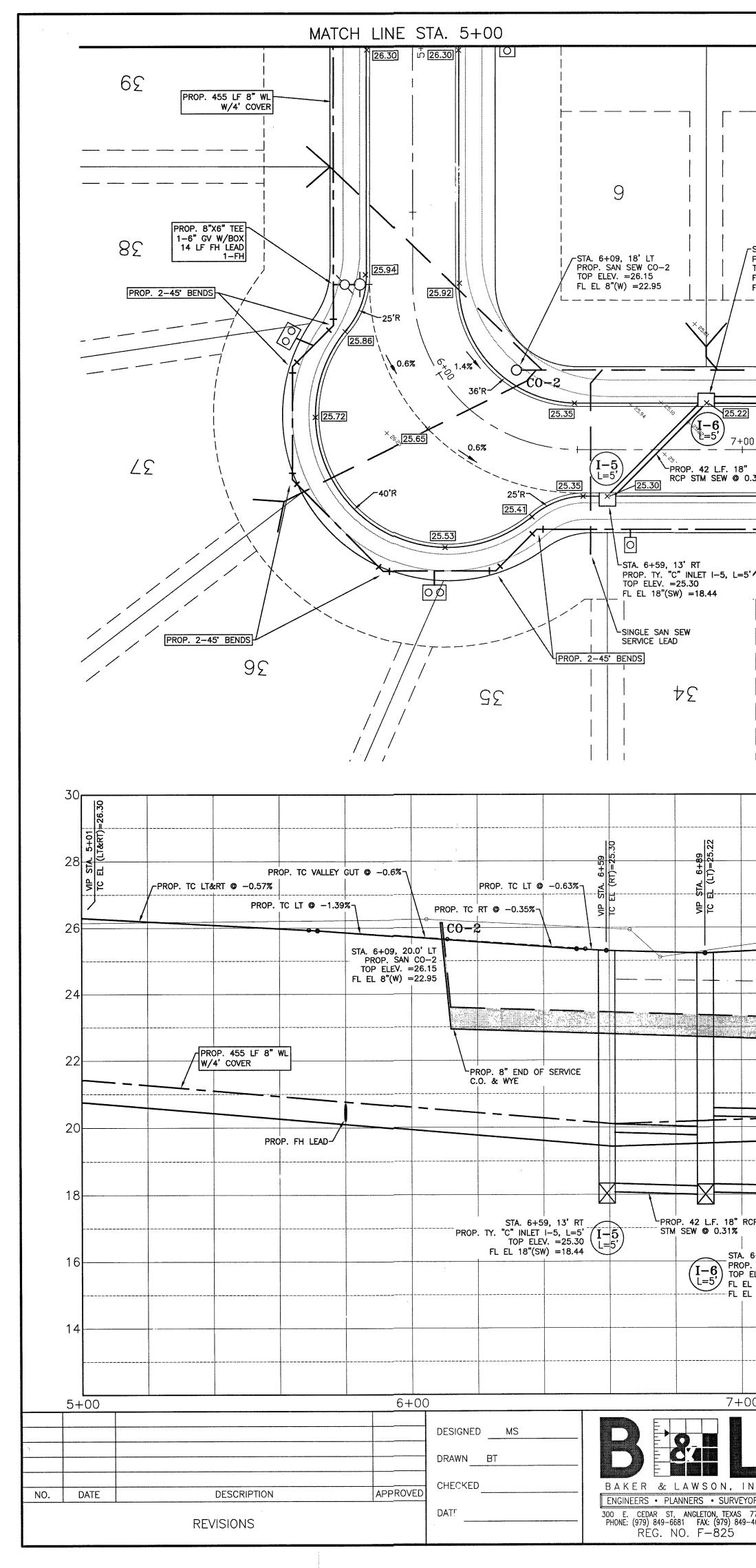




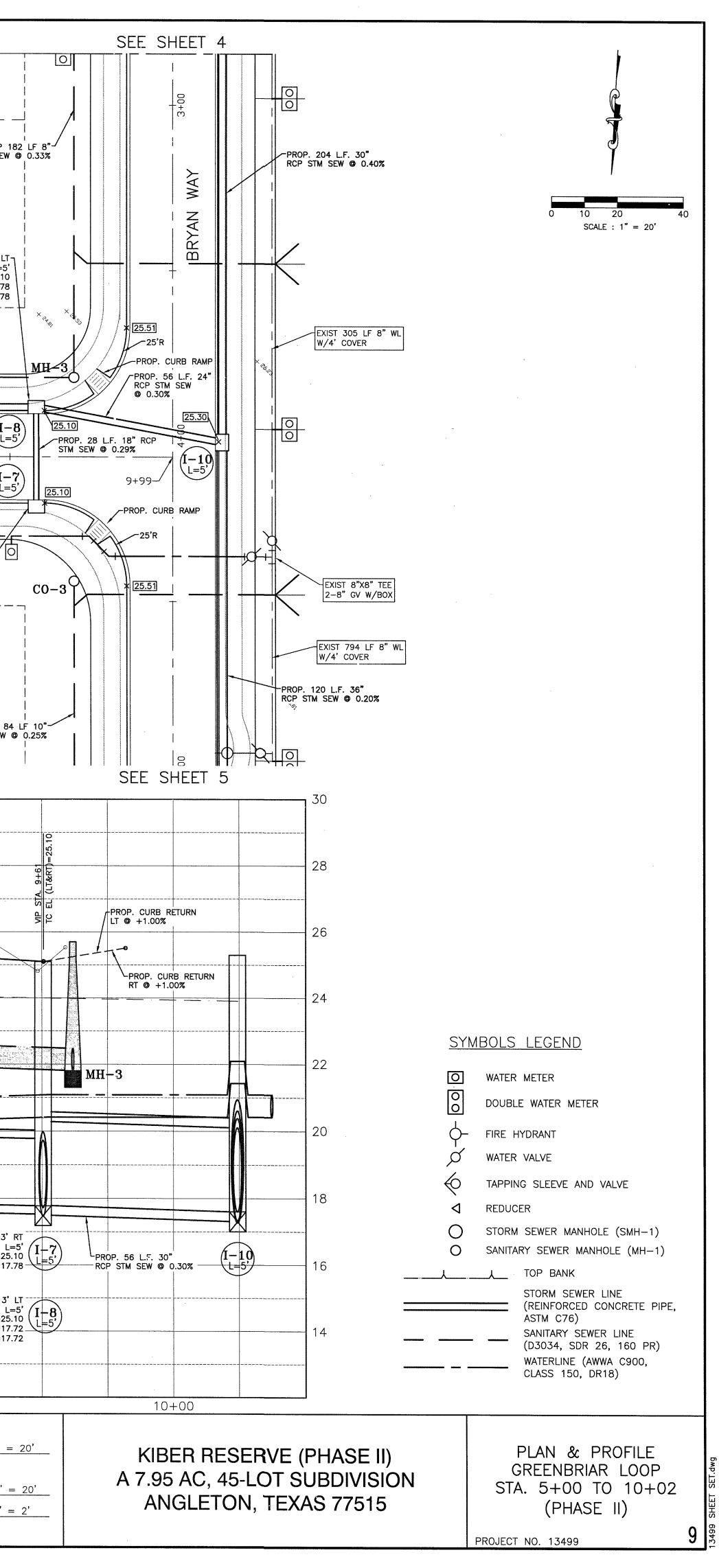
<ul> <li>✓</li> <li>✓</li></ul>	(TYP.)	EXIST 185 LF 10" EXIST 185 LF 10" SAN SEW @ 0.25%	15' U.E. EXIST 6"X8" TEE 1-6" GV W/BOX 14 LF FH LEAD 1-FH
EXIST 298 L.F. 42" 00 RCP STM SEW @ 0.20% BRYAN WA	50' R.O.W CONC. PVMT.	P+00	EXIST 28 L.F. 18" RCP STM SEW @ 0.29%
		MH-4 STA. 8+97, 30.0' RT EXIST SAN SEW MH-4 TOP ELEV. =26.10 FL EL 10"(N,S&W) =21.71 EXIST 92 LF 10" @ 0.25%	STA. 9+52, 13' RT EXIST TY. "C"INLET I-13, L=5' TOP ELEV. =25.35 FL EL 18"(W) =16.60
-HYDRAULIC GRADELINE	3.0'	EXIST 794 LF 8" WL W/4' COVER	STA. 8+97, 30.0' RT XIST SAN SEW MH-4 OP ELEV. =26.10 'L EL 10"(N,S,E&W) =21.71 <b>fH-4</b>
	EXIST 298 L.F. 42" RCP STM SE @ 0.20%		STA. 9+52, 13' LT $EXIST TY. "C"INLET I-14, L=5'$ $TOP ELEV. =25.35$ $FL EL 42"(N) =16.52$ $FL EL 42"(S) =16.52$ $FL EL 18"(E) =16.52$ $STA. 9+52, 13' RT$ $STA. 9+52, 13' RT$ $STA. 9+52, 13' RT$ $TOP ELEV. =25.35$ $FL EL 18"(W) =16.60$
The seal app this docum authoriz Miguelangel A P.E. 12 Miguelangel A P.E. 12 Miguelangel A P.E. 12 Miguelangel A P.E. 12 Miguelangel A Date: 12/4	ent was C ed by N. Sauceda WATERS 1992 18	9+0 OWNER: HARLES VON SCHMIDT TONE DEVELOPMENT GRO 5 CEDAR POINT DRIVE LIVINGSTON, TX 77351 936-646-6767	PLAN:1" =

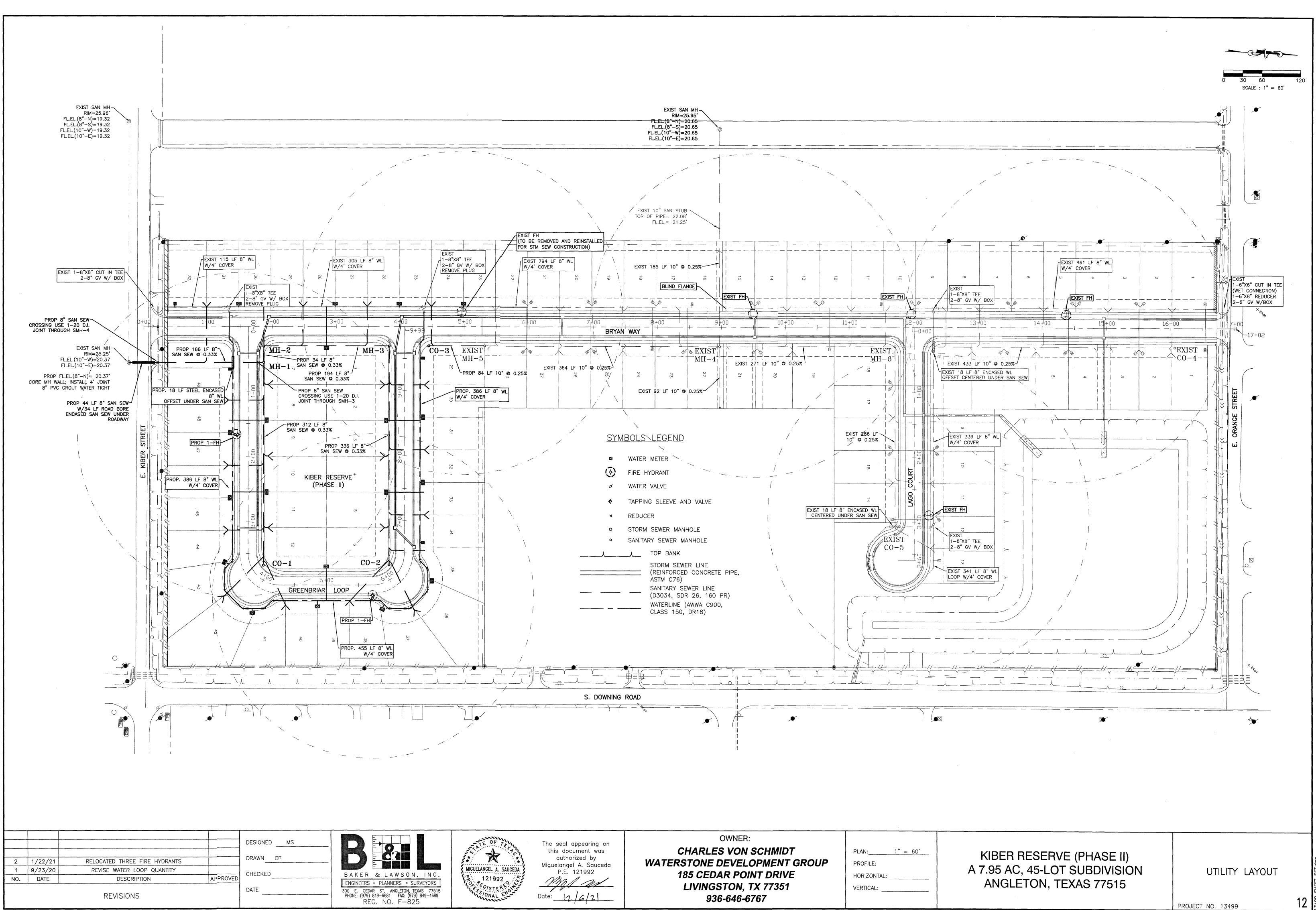






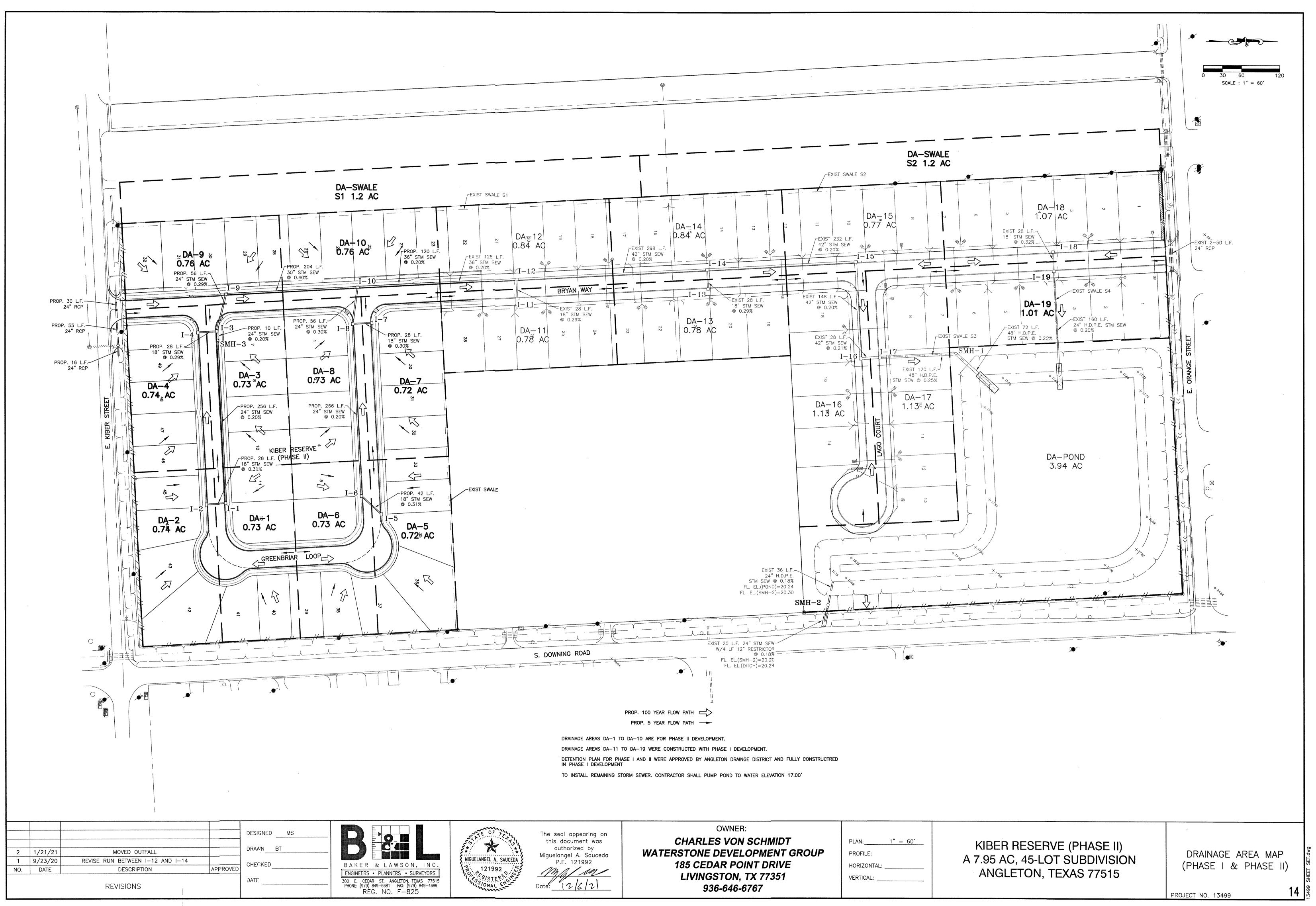
G         STA. 6+89, 13' LT         PROP. TY. "C" INLET I-6, L=5'         TOP ELEV. =25.22         FL EL 18"(NE) =18.31         FL EL 24"(W) =18.31	SERVER RVE X SAN SEW (			<pre></pre>	" SIDEWALK	PROP 1 SAN SEW STA. 9+58, 13' LT- ROP. TY. "C" INLET I-8, L=5' TOP ELEV. =25.10 FL EL 24"(W&E) =17.78 FL EL 18"(N) =17.78
	-50' R.O.W.		25.90 	PROP. 26 STM SEW	6 L.F. 24" RCP © 0.20% 9+00	
			25.90 ×			
5'	OO PROP. 5'	SIDEWALK	DP. 386 LF 8" WL W/4' COVER	00	PROP. TY	STA. 9+58, 13' RT . "C" INLET I-7, L=5' TOP ELEV. =25.10 FL EL 18"(S) =17.86
20' U.Ε.			ſΣ		ΟΣ       	67   PROP 84   SAN SEW 0
PROP. TC RT @ +0.37%	C LT @ +0.51%	EXIST. GRADE	VIP         STA.         8+26           TC         EL         (LT)=25.90	PROP. TC LT&	RT @ -0.59%	0
		HYDRAULIC GRADELINI	E	· · ·		
	PROP 339 LF 8' SAN SEW @ 0.33%	PROP. 386 LF W/4'	8" WL COVER			
CP 6+89, 13' LT P. TY. "C" INLET I-6, L=5' ELEV. =25.22 L 18"(NE) =18.31 L 24"(W) =18.31			←PROP. 266 L.F. 24" RCP STM SEW @ 0.20%			STA. 9+61, 13' PROP. TY. "C" INLET I7, L= TOP ELEV. =25. - FL EL 24"(S) =17.
						- STA. 9+61, 13' PROP. TY. "C" INLET I-8, L= TOP ELEV. =25. - FL EL 30"(W) =17. FL EL 24"(N&E) =17.
DO N C. ORS 77515 -4689	The seal ap this docur authoriz Miguelangel P.E. 12 Date: 12	ment was zed by	NATERSTON 185 CE LIVIN	OWNER: LES VON SCI E DEVELOPI EDAR POINT GSTON, TX 7 936-646-6767	MENT GROUP DRIVE 77351	PLAN:1" == PROFILE: HORIZONTAL:1" = VERTICAL:1" =

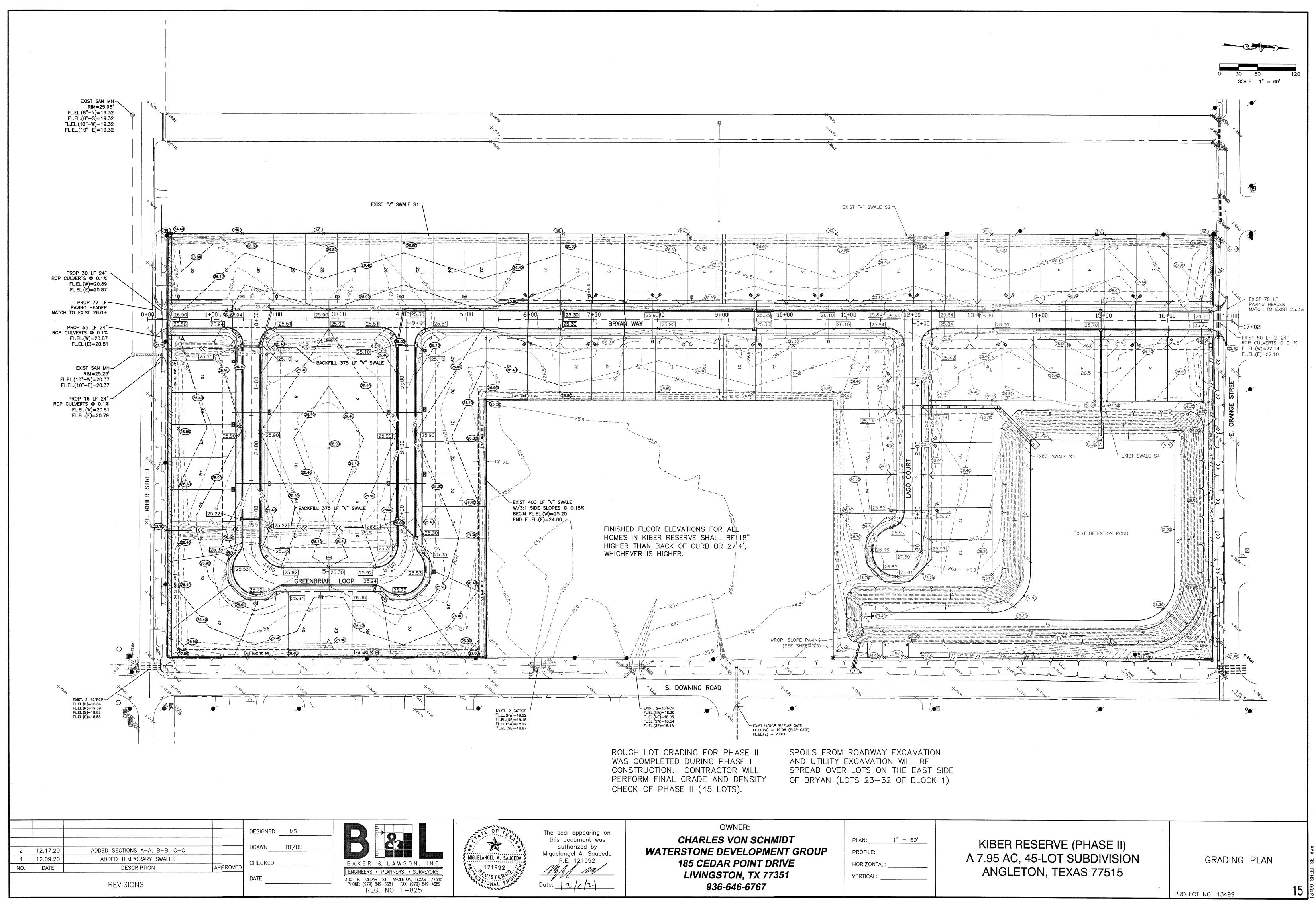


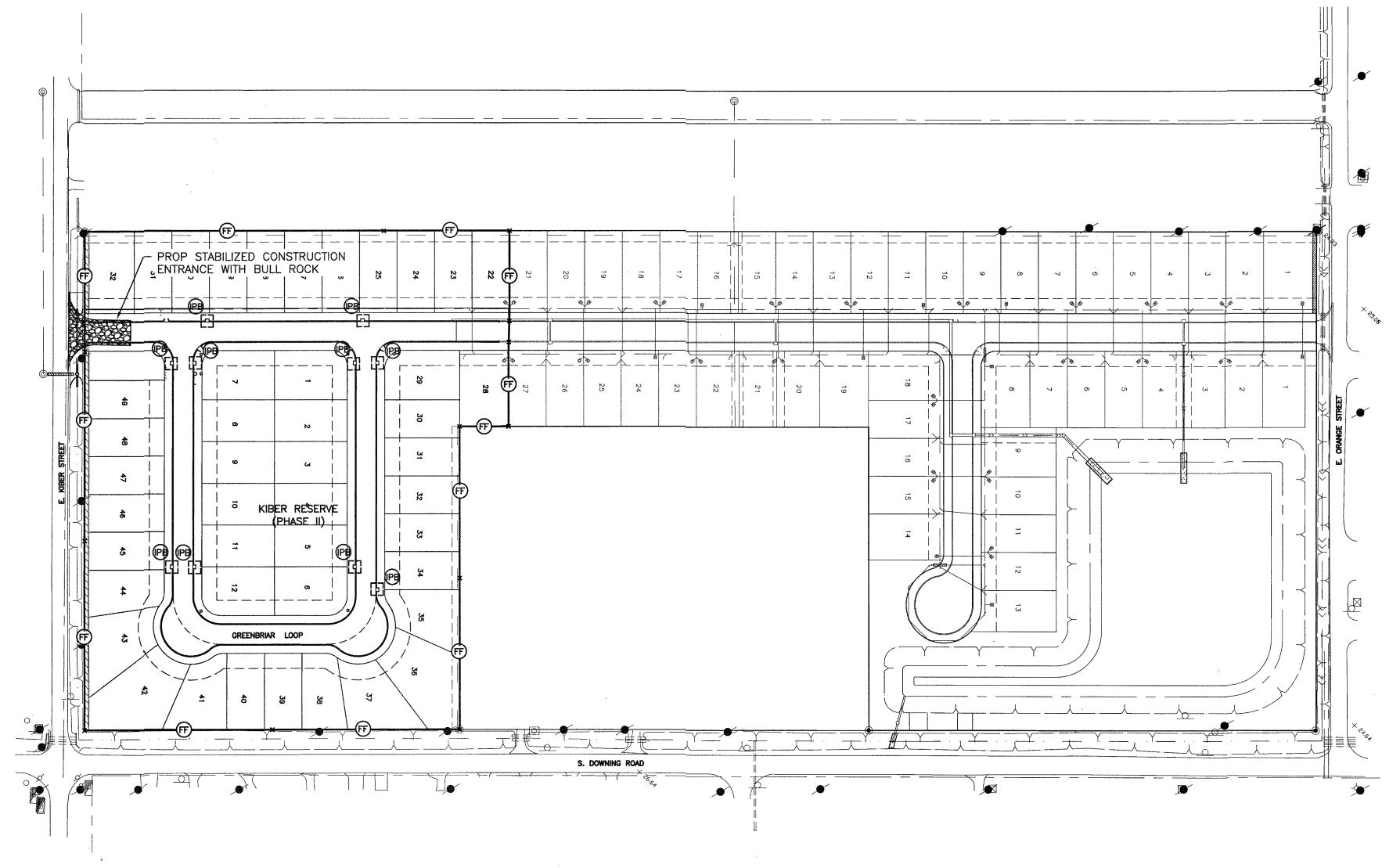


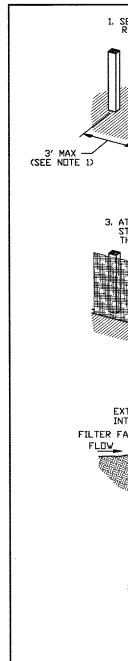
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SONAL EN CONTRACTOR	Date: 12/6/21
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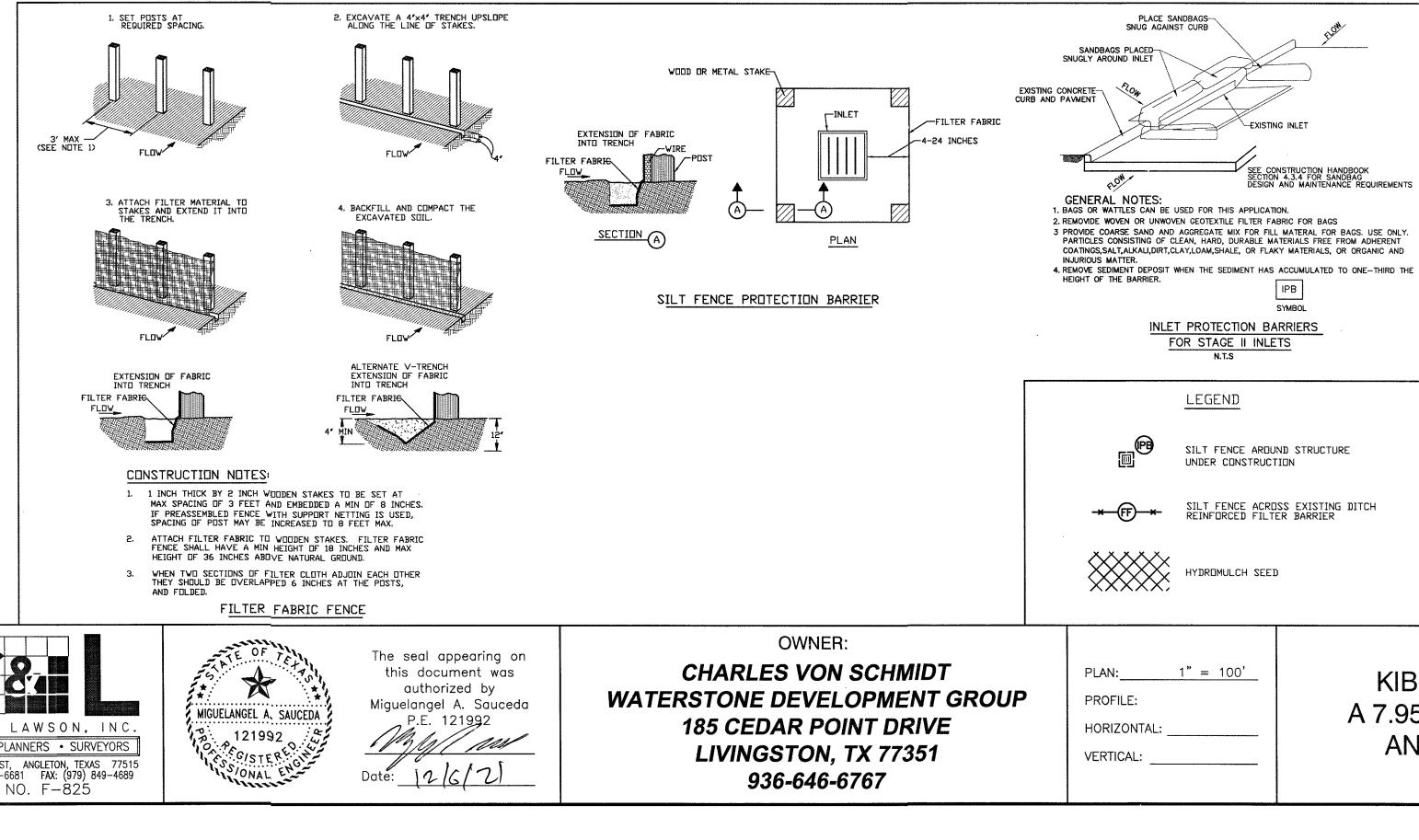


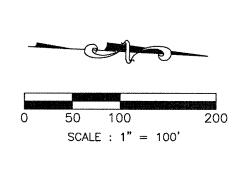






				DESIGNED MS	
				DRAWN BT	
NO.	DATE	DESCRIPTION	APPROVED	CHECKED	BAKER & LAWSON, Engineers • Planners • Surv
		REVISIONS		DATE	300 E. CEDAR ST, ANGLETON, TEXA PHONE: (979) 849–6681 FAX: (979) 8 REG. NO. F-825





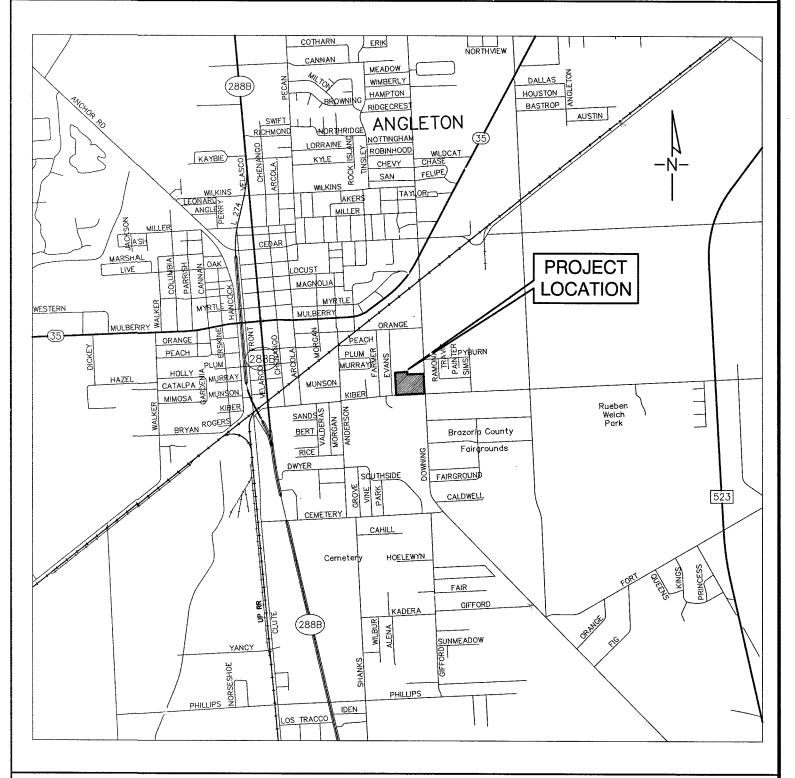
-EXISTING INLET

IPB

SYMBOL

SEE CONSTRUCTION HANDBOOK SECTION 4.3.4 FOR SANDBAG DESIGN AND MAINTENANCE REQUIREMENTS

## GENERAL LOCATION MAP



## PROJECT/SITE INFORMATION

PROJECT NAME: KIBER RESERVE (PHASE II) PROJECT ADDRESS/LOCATION: W. SIDE OF DOWLING STREET AND N. SIDE OF KIBER STREET

CITY: ANGLETON LATITUDE: 95°29'09.5" LONGITUDE: 29°09'40.4" COUNTY: BRAZORIA NAME OF RECEIVING WATERS: GULF OF MEXICO

02/01/2022	<u>02/01/2023</u>
MONTH/DAY/YEAR	MONTH/DAY/YEAR
ESTIMATED CONSTRUCTION START	DATE ESTIMATED COMPLETION DATE
ESTIMATE OF AREA TO BE DISTURBED	
ESTIMATE OF LIKELYHOOD OF DISCHAR	RGE:
UNLIKELY ONCE	PER WEEK
🖾 ONCE PER MONTH	ONCE PER DAY

ARE THERE ANY LISTED ENDANGERED OR THREATENED SPECIES, OR DESIGNATED CRITICAL HABITAT IN THE PROJECT AREA?

> 🗆 YES X NO

ELIGIBILITY WITH REGARD TO PROTECTION OF ENDANGERED SPECIES HAS BEEN

A 7.95	ER RESERVE (PHAS AC, 45-LOT SUBDIV GLETON, TEXAS 775	ISION		PPP LAYOUT (PHASE II)	
OMULCH SEED	(a) 🛛	(b) 🗆	(c) 🗆	(d) 🗆	
FENCE ACROSS EXISTING DITCH FORCED FILTER BARRIER	SATISFIED THROUGH THE THE PERMIT.	INDICATED SEC	TION OF PART	1.B.3.e.(2) OF	

	NATURE OF THE CONSTRUCTION ACTIVITY:
Α.	KIDER RESERVE (PHASE II) SUBDIVISION ANGLETON, BRAZORIA COUNTY, TEXAS. BEING         7.95 ACRE DEVELOPED AREA WHICH WILL BE A RESIDENTIAL SUBDIVISION OF 45 LOTS (50'         WIDE USUALLY). CONSTRUCTION WILL INCLUDE UNDERGROUND UTILITIES, STORM SEWERS,         CONCRETE ROADWAYS WITH CURBS. THE DETENTION POND HAS BEEN EXCAVATED AND         MATERIALS SPREAD ON SITE.
B	INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: STREET RIGHT OF WAY AND LOT AREAS WILL BE STRIPPED OF ALL VEGETATIVE MATTER. THIS MATERIAL WILL BE STOCKPILED ADJACENT TO THE WORK TO BE SPREAD ON DEVELOPED LOTS AFTER FINAL GRADING. UTILITY AND STORM SEWER CONSTRUCTION WILL REQUIRE TRENCHING. EXCAVATION FOR ROADWAY SUBGRADE WILL INVOLVE SPREADING EXCAVATED MATERIAL ON ADJACENT LOTS. RAINFALL RUNOFF WILL BE DIRECTED TO THE STREET GUTTERS AND TO THE CONSTRUCTED STORM SEWER SYSTEM. TRUCKS WILL BE USED TO DELIVER MATERIAL TO THE PROJECT INCLUDING LIME, CONCRETE, UTILITY AND STORM SEWER MATERIALS AND OTHER CONSTRUCTION MATERIALS. TRUCKS WILL ALSO BE USED TO HAUL CONSTRUCTION DEBRIS AWAY FROM THE SITE. THESE TRUCKS WILL BE ROUTED ALONG KIBER STREET FOR INGRESS AND EGRESS. RUTTING DURING WET WEATHER WILL PROVIDE POTENTIAL FOR TRACKING MUD ALONG THE ROUTE.
0	
	TOTAL PROJECT AREA:       7.95 ACRES         TOTAL AREA TO BE DISTURBED:       7.95 ACRES
D.	WEIGHTED RUNOFF COEFFICIENT (BEFORE CONSTRUCTION): 0.30(AFTER CONSTRUCTION): 0.65
E.	REFER TO GENERAL LOCATION MAP AND SITE MAP FOR DRAINAGE PATTERNS AND APPROXIM SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES; AREAS OF SOIL DISTURBANCE; AREAS WHICH WILL NOT BE DISTURBED; LOCTIONS OF MA OR STRUCTURAL AND NON-STRUCTURAL CONTROLS; LOCATIONS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR; LOCATION OF OFF-SITE MATERIAL, WASTE, BORROW OR EQUIPMENT STORAGE AREAS; SURFACE WATERS (INCLUDING WETLANDS); AND LOCATIONS WHERE STORM WATER DISCHARGES TO A SURFACE WATER.
F.	LOCATION AND DESCRIPTION OF ANY DISCHARGE ASSOCIATED WITH
	INDUSTRIAL ACTIVITY OTHER THAN CONSTRUCTIO <u>N:</u>
G	NAME OF RECEIVING WATERS: RUNOFF WILL BE COLLECTED IN THE STORM SEWER SYSTEM AND ROUTED TO THE DETENTION POND. THE POND OUTFALLS INTO ROADSIDE DITCH ON DOWNING STREET. DOWNING STREET OUTFALLS TO BASTROP BAYOU AND THEN TO THE GULF OF MEXICO.
G	RUNOFF WILL BE COLLECTED IN THE STORM SEWER SYSTEM AND ROUTED TO THE DETENTION POND. THE POND OUTFALLS INTO ROADSIDE DITCH ON DOWNING STREET. DOWNING STREET OUTFALLS TO BASTROP BAYOU AND THEN TO THE GULF OF MEXICO.
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## 2. CONTROLS

NARRATIVE - SEQUENCE OF CONSTRUCTION ACTIVITIES AND APPROPRIATE CONTROL MEASURES DURING CONSTRUCTION

THE ORDER OF CONSTRUCTION WILL BEGIN WITH STRIPPING OF ALL VEGETATION FROM THE WORK AREA.

1. INSTALL SILT FENCE AROUND THE PERIMETER OF THE AREA TO BE DISTURBED. THE ORDER OF ACTIVITIES WILL BEGIN WITH THE COMPLETE STRIPPING OF ALL AREAS TO BE PAVED. REMOVED VEGETATION TO BE STOCKPILED ADJACENT LOT.

2. INSTALL WATER LINES, SANITARY SEWER LINES AND MANHOLES AND STORM SEWER PIPES, INLETS AND MANHOLES. INSTALL INLET PROTECTION BARRIERS AROUND ALL INLETS.

3. ROADWAY EXCAVATION, LIME STABILIZATION AND CONCRETE PAVING WILL FOLLOW UNDERGROUND UTILITY AND STORM SEWER CONSTRUCTION.

4. AS SOON AS CONCRETE CURBS ARE INSTALLED, PLACE 18" WIDE SOLID SOD OR REINFORCED FILTER FABRIC BEHIND ALL CURBS.

5. ALL SEEDED AND FERTILIZED AREAS TO BE IRRIGATED TO ENSURE GROWTH.

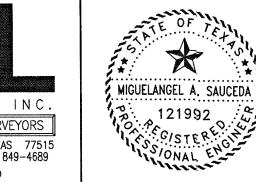
A. EROSION AND SEDIMENT CONTROLS: EROSION AND SEDIMENT CONTROLS SHALL RETAIN SEDIMENT ON SITE TO THE EXTENT PRACTICABLE. CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS (WHERE APPLICABLE) AND GOOD ENGINEERING PRACTICES. OFFSITE SEDIMENT ACCUMULATIONS MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE IMPACTS. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS WHEN CAPACITY HAS BEEN REDUCED BY 50%. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORM WALL SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES.

SOIL STABILIZATION PRACTICES:	OWNER/ DEVELOPER	GENERAL CNTRTR.	BUILDER	OTHER
TEMPORARY SEEDING				
PERMANENT PLANTING, SODDING, OR SEEDING		X		
MULCHING- WHERE INDICATED		X		
SOIL RETENTION BLANKET				
VEGETATIVE BUFFER STRIPS				
PRESERVATION OF NATURAL RESOURCES				
OTHER:				

THE FOLLOWING RECORDS SHALL BE MAINTAINED AND ATTACHED TO THIS SWPPP: DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE. DATES WHEN STABILIZATION MEASURES ARE INITIATED.

STRUCTURAL PRACTICES:	OWNER/ DEVELOPER	GENERAL CNTRTR.	BUILDER	OTHER
REINFORCED SILT FENCES		X		
HAY BALES				
ROCK BERMS				
DIVERSION, INTERCEPTOR, OR PERIMETER DIKES				
DIVERSION, INTERCEPTOR, OR PERIMETER SWALES				
DIVERSION DIKE AND SWALE COMBINATIONS				
PIPE SLOPE DRAINS				
ROCK BEDDING AT CONSTRUCTION EXIT		X		
TIMBER MATTING AT CONSTRUCTION EXIT				
SEDIMENT TRAPS				
SEDIMENT BASINS				
STORM INLET PROTECTION		X		
STONE OUTLET STRUCTURES				
OTHER:				

### STORM WATER MANAGEMENT MEASURES INSTALLED DURING CONSTRUCTION TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION: CURBS & GUTTERS STORM SEWERS



The seal appearing on this document was authorized by Miguelangel A. Sauceda P.E. 121992 Mapp al Date: 12/6/21

**OWNER:** CHARLES VON SCHMIDT WATERSTONE DEVELOPMENT GROUP 185 CEDAR POINT DRIVE LIVINGSTON, TX 77351 936-646-6767

PLAN:
PROFILE:
HORIZONTAL:
VERTICAL:

WASTE MATERIALS: ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL CONTAINER. THE CONTAINER SHALL MEET ALL STATE AND CITY SOLID WASTE MANAGEMENT REGULATIONS. THE CONTAINER SHALL BE EMPTIED AS NECESSARY AND THE TRASH HAULED TO AN APPROPRIATE DUMP SITE. NO CONSTRUCTION MATERIALS WILL BE BURIED ON SITE.

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. IF A REPAIR IS NECESSARY IT SHALL BE DONE AT THE EARLIEST TIME POSSIBLE. BUT NO LATER THAN SEVEN CALENDAR DAYS AFTER THE GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO DRAINAGE WAYS SHALL HAVE PRIORITY, FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS. MAINTENANCE SHALL BE PERFORMED BEFORE THE NEXT ANTICIPATED STORM EVENT OR AS SOON AS PRACTICABLE.

4. INSPECTION AN INSPECTION WILL BE PERFORMED BY THE PERMITEE EVERY FOURTEEN DAYS AS WELL AS AFTER EVERY ONE-HALF INCH OR GREATER RAINFALL EVENT. AN INSPECTION AND RAINFALL REPORT WILL BE MADE AFTER EACH INSPECTION. ANY DEFICIENCIES WILL BE NOTED AND APPROPRIATE CHANGES SHALL BE MADE TO THE SYSTEM TO COMPLY WITH REQUIREMENTS

### C. OTHER CONTROLS

NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE UNITED STATES, EXCEPT AS AUTHORIZED BY A PERMIT ISSUED UNDER SECTION 404 OF THE CLEAN WATER ACT.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING): AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINT, CLEANING SOLVENTS, ASPHALT PRODUCTS, PETROLEUM PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION, AND CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE SPILL COORDINATOR SHOULD BE CONTACTED IMMEDIATELY.

SANITARY WASTE: PORTABLE SANITARY FACILITIES WILL BE PROVIDED BY THE CONTRACTOR. ALL SANITARY WASTES WILL BE COLLECTED FROM PORTABLE UNITS AND SERVICED BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

## OFFSITE VEHICLE TRACKING SHALL BE MINIMIZED BY:

HAUL ROADS DAMPENED FOR DUST CONTROL LOADED X HAUL TRUCKS TO BE COVERED WITH TARPAULIN X EXCESS DIRT ON ROAD REMOVED DAILY STABILIZED CONSTRUCTION ENTRANCE

OTHER: TRUCKS HAULING VEGETATION AND DEBRIS WILL BE MONITORED AND SHALL BE COVERED WITH TARPAULINS IF REQUIRED TO PREVENT DUST OR OTHER PARTICLES FROM BLOWING OR FALLING FROM TRUCK.

REMARKS: ALL OPERATIONS WILL BE CONDUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNTS OF SEDIMENT THAT MAY ENTER THE RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY, OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE <u>CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS</u>

## 3. MAINTENANCE

## 5. NON-STORMWATER DISCHARGES

FIRE HYDRANT FLUSHING X BUILDING WASHDOWN WITHOUT DETERGENTS X PAVEMENT WASHDOWN WITHOUT DETERGENTS X CONDENSATE \_\_\_\_ UNCONTAMINATED GROUNDWATER \_\_\_\_ UNCONTAMINATED FOUNDATION DRAINS

KIBER RESERVE (PHASE II)
A 7.95 AC, 45-LOT SUBDIVISION
ANGLETON, TEXAS 77515

SWPPP NARRATIVE

### WinStorm (STORM DRAIN DESIGN)

### Version 3.05, Jan. 25, 2002 Run @ 4/20/2020 10:15:30 AM

OUT

Run# Node I.D.

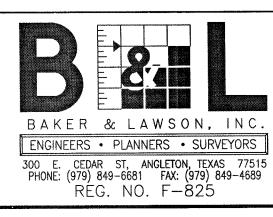
US DS

Conveyance Configuration Data

12.50 20.39 5.67 0.000 мн-4 CircMh 0.600 Outlt 0.600 13.63 20.43 5.67 \_\_\_\_\_

PROJECT NAME : Untitled JOB NUMBER : PROJECT DESCRIPTION DESIGN FREQUENCY : 5 Years ANALYSYS FREQUENCY : 100 Years MEASUREMENT UNITS: ENGLISH

			IGN FREQUE	NCY of: 5		-				2	A-2 A-1 A-4	A-1 MH-3 A-3	1 1	9.21 9.12 8.67	19.12 18.61 18.59	Circ 1 Circ 1 Circ 1	0.00
=====	Computa			quency.  Tc Used	 Intensit			otal Q		5	A-3 A-5 A-6	A-9 A-6 A-8	1 1	8.59 8.44 8.31	18.43 18.31 17.78	Circ 1 Circ 1 Circ 1	0.00 0.00
ID  A-1	0.6	(acre)		(min) 15.00	(in/hr) 6.64		5) (	(cfs) 2.910		8	A-7 A-8 A-9	A-8 A-10 A-10	) 1 ) 1	7.86 7.78 8.43	17.78 17.61 17.61	Circ 1 Circ 1 Circ 1	0.00 0.00
A-2 A-3 A-4	0.6 0.6 0.6	0.74 0.73 0.74	15.00 15.00 15.00	15.00 15.00 15.00	6.64 6.64 6.64	0.00	00 00	2.950 2.910 2.950		11	A-10 A-11 A-12	A-12 A-12 A-14	2 1	7.61 7.20 7.12	17.12 17.12 16.52	Circ 1 Circ 1 Circ 1	0.00
A-5 A-6	0.6 0.6	0.72 0.73	$15.00 \\ 15.00$	15.00 15.00	6.64 6.64	0.00	00 00	2.870 2.910 2.870		13 14	A-13 A-14 A-15	A-14 A-15 MH-4	1	6.60 6.52 6.02	16.52 16.02 15.73	Circ 1 Circ 1 Circ 1	0.00
A-7 A-8 A-9	0.6 0.6 0.6	0.72 0.73 0.76	15.00 15.00 15.00	15.00 15.00 15.00	6.64 6.64 6.64	0.00	00 00	2.910 3.030	3	16 17	A-16 A-17	мн-4 мн-1	1 . 1	5.77 5.70	15.73 15.40	circ 1 Circ 1	0.00 0.00
A-10 A-11 A-12	0.6 0.6 0.6	0.76 0.78 0.84	15.00 15.00 15.00	15.00 15.00 15.00	6.64 6.64 6.64	0.00 0.00 0.00	00 00	3.030 3.109 3.349			МН-1 МН-3 МН-4	OUT A-3 A-17	1	5.46 8.61 5.73	15.30 18.59 15.70	Circ 1 Circ 1 Circ 1	0.00
A-13 A-14 A-15	0.6 0.6 0.6	0.78 0.84 0.77	15.00 15.00 15.00	15.00 15.00 15.00	6.64 6.64 6.64	0.00 0.00 0.00	00	3.109 3.349 3.070									
A-16 A-17	0.6 0.6	1.13 1.13	15.00 15.00	15.00 15.00	6.64 6.64	0.00		4.505			Hydra	ulic	Gradeli	ne	ons. Ta De De De Unif	======= pth	 Vel
		nfiguratio								Run#  1	(ft)		(ft) 22.35	(%)	(ft) 0.75		(f/s)
	Inlet I Type	Length/ Gr Perim. Ar	rate Left- rea Long	Trans Lor	ht-Slope ng Trans	Gutter n Depr\	Deptł W Allowe	n Cri ed El	itic lev.	2 3	22 22	2.35 .19	22.18 22.18 22.17 22.03	0.066 0.079	1.09 0.77 1.50	2.00 1.50	3.32 3.21
 A-1	Curb	5.00 r	sf) (%) n/a 0.50		50 2.00 (		0 0.50	0 26	ft) 6.40	4 5 6	22 22	2.17 2.13 2.10	22.10 21.93	0.075 0.064	0.74 1.09	1.50 2.00	3.31 3.27
A-2 A-3 A-4	Curb Curb Curb	5.00 r	n/a 0.50 n/a 0.50 n/a 0.50	2.00 0.5	50 2.00 (	0.014 1.5	0 0.50 0 0.50	0 26 0 26	6.40 6.00 6.40	7 8 9	21 22	.95 .93 .03	21.93 21.80 21.80	0.236	0.76 1.47 1.31	2.00 2.50	4.45 5.38
A-5 A-6 A-7	Curb Curb Curb	5.00 r	n/a 0.50 n/a 0.50 n/a 0.50	2.00 0.9	50 2.00 (	0.014 1.5	0 0.50	0 26	6.00 6.00	10 11 12	21 21	80 41 38		$0.088 \\ 0.104$	2.25 0.80 2.19	1.50 3.50	3.26 5.13
A-8 A-9 A-10	Curb Curb Curb	5.00 r	n/a 0.50 n/a 0.50 n/a 0.50	2.00 0.5	50 2.00 (	0.014 1.5	0 0.50	0 26	6.00 6.00	13 14 15	21 20	10 07 ).73	20.73 20.51	0.152	0.80 2.41 2.52	3.50 3.50	5.29 5.29
A-11 A-12 A-13	Curb Curb Curb	5.00 r 5.00 r	n/a 0.50 n/a 0.50 n/a 0.50	2.00 0.9	50 2.00 (	0.014 1.5	0 0.50	0 26	6.00	16 17 18	20 20	).53 ).50 ).37	20.51 20.37 20.30	$\begin{array}{c} 0.104 \\ 0.104 \end{array}$	0.96 2.31 2.44	4.00 4.00	$6.16 \\ 5.78$
A-14 A-15	Curb Curb	5.00 r 5.00 r	n/a 0.50 n/a 0.50	2.00 0.5	50 2.00 ( 50 2.00 (	0.014  1.5 0.014  1.5	0 0.50	0 26 0 26	6.00 6.00 6.00	19 20	20	2.18 ).51	22.17 20.50	0.088	1.09 2.22	4.00	5.94
A-16 A-17 	Curb Curb			2.00 0.1		0.014 1.5			6.00						REQUENCY		.00 Yea
	ilets Co Inlet	mputation  Length	Data. Grate	Total (	-	Total	Ponded V								======		
ID	Туре	(ft)	Perim Area (ft) (sf	) (cfs)	Capacity (cfs)	(ft)	(ft)	Right (ft)					Area	Tc	s Freque Tc Us	ed I	ntensity
A-1 A-2 A-3	Curb Curb Curb	5.00 5.00 5.00	n/a n/a n/a n/a n/a n/a	a 2.950 a 2.910	6.261 6.261 6.261	0.300 0.303 0.300	9.00 9.05 9.00	9.00 9.05 9.00 9.05		A-1 A-2	0.0		(acre) 0.73 0.74	(min) 15.00 15.00		0	(in/hr) 10.10 10.10
A-4 A-5 A-6	Curb Curb Curb	5.00 5.00 5.00	n/a n/a n/a n/a n/a n/a	a 2.870 a 2.910	6.261 6.261 6.261	0.303 0.297 0.300	9.05 8.95 9.00	8.95 9.00		A-3 A-4	0. 0. 0.	6 6	0.73 0.74 0.72	15.00 15.00 15.00 15.00	15.0 15.0	10 10	10.10 10.10 10.10 10.10
A-7 A-8 A-9	Curb Curb Curb	5.00 5.00 5.00	n/a n/a n/a n/a n/a n/a	a 2.910 a 3.030	6.261 6.261 6.261	0.297 0.300 0.308	8.95 9.00 9.10	$8.95 \\ 9.00 \\ 9.10$		A-5 A-6 A-7	0. 0.	6 6	0.72 0.73 0.72 0.73	15.00 15.00 15.00 15.00	15.0 15.0	10 10	10.10 10.10 10.10 10.10
A-10 A-11 A-12	Curb Curb Curb	5.00 5.00 5.00	n/a n/a n/a n/a n/a n/a	a 3.109	6.261 6.261 6.261	0.308 0.314 0.329	9.10 9.20 9.45	9.10 9.20 9.45		A-8 A-9 A-10		6 6	0.76 0.76	15.00 15.00	15.0 15.0	0 10	10.10 10.10 10.10 10.10
A-13 A-14 A-15	Curb Curb Curb	5.00 5.00 5.00	n/a n/ n/a n/ n/a n/	a 3.349	6.261 6.261 6.261	0.314 0.329 0.311	9.20 9.45 9.15	9.20 9.45 9.15		A-11 A-12 A-13	0. 0.	6 6	0.78 0.84 0.78	15.00 15.00 15.00	15.0 15.0	00 00	$10.10 \\ 10.10$
A-16 A-17	Curb Curb	5.00 5.00	n/a n/ n/a n/		6.261 6.261		10.60 10.60	10.60 10.60		A-14 A-15 A-16	0. 0.	6 6	0.84 0.77 1.13 1.13	15.00 15.00 15.00 15.00	15.0 15.0	)0 )0	10.10 10.10 10.10 10.10
			_					-	-	A-17 	0.		±.±3				
Node I.D.		Weighted C-Value	Dr.Area (acres)	Cumulat. Tc (min)		User Supply Q cfs)	Additiona Q in Nod (cfs)	e Dis	tal sch. fs)	Inle	t Inl	et Le	ngth/ G	rate Le	ft-slope	Right	-Slope
A-1 A-2 A-3	Curb Curb Curb	0.600 0.600 0.600	1.47 0.74 2.94	15.14 15.00 16.48	6.61 6.64 6.34	0.000 0.000 0.000	0.00 0.00 0.00	2. 11.		ID  A-1	Тур  Cur	(f	t) (	sf) (%	ong Trans 5) (%) 50 2.00	(%)	Trans (%) 2.00 0
A-4 A-5 A-6	Curb Curb Curb	$0.600 \\ 0.600 \\ 0.600$	0.74 0.72 1.45	15.00 15.00 15.21	6.64 6.64 6.60	0.000 0.000 0.000	0.00 0.00 0.00	2.	950 870 741	A-2 A-3 A-4	Cur Cur Cur	b 5 b 5	.00 .00	n/a 0. n/a 0.	50 2.00 50 2.00 50 2.00	0.50 0.50 0.50	$2.00\ 0$ $2.00\ 0$
A-7 A-8 A-9	Curb Curb Curb	0.600 0.600 0.600	0.72 2.90 3.70	15.00 16.57 16.69	6.64 6.32 6.30	0.000 0.000 0.000	0.00 0.00 0.00	11.		А-5 А-б	Cur Cur	b 5 b 5	.00	n/a 0. n/a 0.	50 2.00 50 2.00	0.50 0.50	2.00 0 2.00 0
A-10 A-11 A-12	Curb Curb Curb	0.600 0.600 0.600	7.36 0.78 8.98	17.32 15.00 18.18	6.18 6.64 6.03	0.000 0.000 0.000	0.00 0.00 0.00	27.	299 109	A-7 A-8 A-9	Cur Cur Cur	b 5 b 5	.00 .00	n/a 0. n/a 0.	50 2.00 50 2.00 50 2.00	0.50 0.50 0.50	2.00 0 2.00 0
A-13 A-14	Curb Curb	0.600 0.600	0.78 10.60	$15.00 \\ 19.15$	6.64 5.87 5.74	0.000 0.000 0.000	0.00	) 3. ) 37.	109 310 177	A-10 A-11 A-12	Cur Cur	b 5 b 5	.00 .00	n/a 0. n/a 0.	50 2.00 50 2.00 50 2.00	0.50 0.50 0.50	$2.00\ 0$ $2.00\ 0$
A-15 A-16 A-17	Curb Curb Curb	0.600 0.600 0.600	$     11.37 \\     1.13 \\     13.63 \\     13.63 $	19.93 15.00 20.43	6.64 5.67	0.000 0.000	0.00 0.00	) 4. ) 46.	505 342	A-13 A-14 A-15	Cur	b 5	.00	n/a 0.	50 2.00 50 2.00 50 2.00	0.50 0.50 0.50	2.00 0
МН-1 МН-3	CircM CircM		13.63 1.47	20.43 15.14	5.67 6.61	0.000 0.000	0.00 0.00		834	A-16 A-17	6 Cur				50 2.00	0.50 0.50	2.00 0 2.00 0
													utation 			otal Q	Inlet
										ID	тур	e	(ft)	Perim A (ft) (	Area (sf) (e	cfs)	Capacity (cfs)
										A-1 A-2 A-3	Cur Cur Cur	b	5.00 5.00 5.00	n/a n/a n/a	n/a 4	4.423 4.484 4.423	6.261 6.261 6.261
					·					a-4 a-5 a-6	Cur Cur Cur	b	5.00 5.00 5.00	n/a n/a n/a	n/a ·	4.484 4.363 4.423	6.261 6.261 6.261
										A-7 A-8 A-9	Cur Cur Cur	b b	5.00 5.00 5.00	n/a n/a n/a	n/a n/a	4.363 4.423 4.605	6.261 6.261 6.261
						·				A-1( A-11	) Cur	b	5.00	n/a n/a	n/a ·	4.605	6.261 6.261
								r								<u></u>	
									DESIGNEI	D	MS			D		9_1	
									DRAWN	BT							
NO.	DATE			DESCRIF	TION		APP	ROVED	CHECKED					¥	EERS • PL	ANNERS	
			R	EVISIONS	5				DATE					300 E. PHONE:	cedar st (979) 849–6 REG.	, anglet 1681 FAX NO. F	on, texas (: (979) 849 —825



									A-14 A-15	Curb Curb	5	.00	n/a n/a	n/a n/a	. 4	.666	
tion D	ata								A-16 A-17	Curb Curb		.00 .00	n/a n/a	n/a n/a		.847 .847	
E] OW]	======= ine Elev					ana dali alia disi 212 dini 212 di	1 CHE 100 200 000 100 000 C										-
US	DS		hape #	Span	Rise	Length	slope	n_value	Cumul	lative J	unctio	on Dis	scharge	Com	putat	ions	
(ft)	(ft)			(ft)	(ft)	(ft)	(%)										
19.2	1 <b>1</b> 9.	 12	circ 1	0.00	1.50	28.00	0.32	0.013	Node	Node		ghted				at. I	n
19.1			Circ 1		2.00	256.00	0.20	0.013	I.D.	туре	e C-Va	aiue	Dr.Ar (acre		тс (min	) (	
18.6			Circ 1		1.50	28.00	0.29	0.013					(acre				
18.5			Circ 1		2.00	56.00	0.29	0.013	A-1	Curb	0 0	.600	1.	47	15.1	.3	1
18.4	4 18.				1.50	42.00	0.31	0.013	A-2	Curt		. 600	0.		15.0	0	1
18.3			Circ 1		2.00	266.00	0.20	0.013	A-3	Curb		.600	2.		16.3		
17.8			circ 1		1.50	28.00	0.29	0.013	A-4	Curt		. 600	0.		15.0		1
17.7			Circ 1		2.00	56.00	0.30	0.013	A-5	Curt		.600	0.		15.0		1
18.4			Circ 1		2.50	204.00	0.40	0.013	A-6	Curk		. 600	1.		15.1		1
17.6			Circ 1		3.00	248.00	0.20	0.013	A-7	Curk		. 600	0.		15.0		1
17.2			Circ 1		1.50	28.00	0.29	0.013	A-8	Curk		.600	2.		16.4		
17.1			Circ 1		3.50	298.00	0.20	0.013	A-9	Curt		.600	3.		16.5		
16.6			Circ 1		1.50	28.00	0.29	0.013	A-10	Curt		.600	7.		17.0		_
16.5			Circ 1		3.50	248.00	0.20	0.013	A-11	Curt		.600	0.		15.0		1
16.0			Circ 1 Circ 1		3.50 1.50	148.00 12.00	0.20 0.33	0.013	A-12	Curt		.600	8.		17.7		-
15.7						12.00	0.35	0.013 0.013	A-13	Curt		.600	0.		15.0		1
15.7 15.4			Circ 1 Circ 1		4.00	72.00	0.23	0.013	A-14	Curk		.600	10.		18.7		
18.6			Circ 1		2.00	10.00	0.20	0.013	A-15	Curk		.600 .600	11.		19.4 15.0		1
15.7			Circ 1		4.00	12.00	0.25	0.013	A-16 A-17	Curk Curk		.600	1. 13.		19.8		L
	, , , , , , , , , , , , , , , , , , ,								MH-1	Circ		.600	13.		19.8		
									MH-3	Circ		.600	1.		15.1		1
									MH-4	Circ		.600	12.		19.8		-
	tations.		lwater :						OUT	Out		. 600	13.		19.8		
deline		Dep			locity			Junc								~ ~ ~ ~ ~ ~	
	r.slope				Actua	1 Q	Cap	Loss									
	(%)	(ft)	(ft)	(f/s)	) (f/s	) (cfs)	) (cfs		Conve	eyance (	config	urati	on Data				
2.35 0	.079	0.75	1.50	3.34	1.6	7 2.95	5 5.9	6 0.000									:=
		1.09	2.00	3.32					Run#			F	lowline		v.	chang	~
		0.77	1.50	3.21						US	DS		US (ft)	DS (ft)		Shape	-
		1.50	2.00	4.43													
2.10 0		0.74	1.50	3.31		2 2.87	7 <b>5.</b> 84	4 0.000	1	A-2	A-1		19.21	19	.12	Circ	-
		1.09	2.00	3.27			10.1	0.000	2		MH-3		19.12		.61	Circ	
		0.76	1.50	3.19					3		A-3		18.67		.59	Circ	
		1.47	2.00	4.45					4	A-3	A-9		18.59		3.43	Circ	
		1.31	2.50	5.38					5		A-6		18.44	18	.31	Circ	2
		2.25	3.00	4.80					6	A-6	A-8		18.31	17	.78	Circ	2
		0.80	1.50	3.26					7	A-7	A-8		17.86	17	.78	Circ	2
		2.19	3.50	5.13					8	A-8	A-10		17.78	17	.61	Circ	
		0.80	1.50	3.26					9	A-9	A-10		18.43	17	.61	Circ	2
		2.41	3.50	5.29					10	A-10	A-12		17.61	17	.12	Circ	2
		2.52	$3.50 \\ 1.50$	5.29 3.77					11	A-11	A-12		17.20		.12	Circ	
		2.31	4.00	6.16					12	A-12	A-14		17.12		5.52	Circ	
		2.44	4.00	5.78					13	A-13	A-14		16.60		5.52	Circ	
		1.09	2.00	3.32					14	A-14	A-15		16.52		5.02	Circ	
		2.22	4.00	5.94					15	A-15	мн-4		16.02		.73	Circ	
								01000	16	A-16	мн-4		15.77		.73	Circ	
		=====							17	A-17	MH-1		15.70		.40	Circ	
									10	NAL 1 1	OUT					C 7 10 0	~

0.00 42.538

0.00 46.342

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0.000

A-12 Curb

Curb

Curb

A-13

A-14

5.00 n/a n/a 5.090

5.00 n/a n/a 4.726

5.00 n/a n/a 5.090

18 MH-1 OUT 19 MH-3 A-3

20 MH-4 A-17

Node Weighted Cumulat. Cumulat. Intens. User

Outlt 0.600 13.63 19.83 8.83 0.000

Conveyance Hydraulic Computations. Tailwater = 20.300 (ft)

6.261

6.261

6.261

5.00 n/a n/a 4.666 6.261 0.411 10.70 10.70

10.06

10.10

9.71

10.10

10.10

10.04

10.10

9.68

9.66

9.50

10.10

9.32

10.10

9.09

8.93

10.10

8.83

10.06

19.12 Circ 1 0.00 1.50

18.43 Circ 1 0.00 2.00

17.78 Circ 1 0.00 1.50

16.52 Circ 1 0.00 1.50

15.73 Circ 1 0.00 1.50

8.83 0.000

8.84 0.000

5.00 n/a n/a 6.847 6.718 0.510 12.40 12.40

Curb 5.00 n/a n/a 6.847 6.718 0.510 12.40 12.40

(acres) (min) (in/hr) cfs)

0.435 11.10 11.10

0.415 10.80 10.80

0.435 11.10 11.10

Supply Q Q in Node Disch.

(cfs)

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

Additional Total

(cfs)

\_\_\_\_\_

8.873

4.484

17.123

4.484

4.363

8.735

4.363

16.849

21.444

41.972

4.726

50.236

4.726

57.811

60.915

6.847

72.248

72.248

8.873

66.309

0.00 72.248

28.00 0.32 0.013

56.00 0.29 0.013

28.00 0.29 0.013

28.00 0.29 0.013

12.00 0.33 0.013

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.000 0.000

0.000

Shape # Span Rise Length Slope n\_value

(ft) (ft) (ft) (%)

18.61 Circ 1 0.00 2.00 256.00 0.20 0.013

18.59 Circ 1 0.00 1.50 28.00 0.29 0.013

18.31 circ 1 0.00 1.50 42.00 0.31 0.013

17.78 circ 1 0.00 2.00 266.00 0.20 0.013

17.61 Circ 1 0.00 2.00 56.00 0.30 0.013

17.61 circ 1 0.00 2.50 204.00 0.40 0.013

17.12 Circ 1 0.00 3.00 248.00 0.20 0.013

17.12 Circ 1 0.00 1.50 28.00 0.29 0.013

16.52 circ 1 0.00 3.50 298.00 0.20 0.013

16.02 Circ 1 0.00 3.50 248.00 0.20 0.013

15.73 Circ 1 0.00 3.50 148.00 0.20 0.013

15.40 circ 1 0.00 4.00 120.00 0.25 0.013

15.46 15.30 Circ 1 0.00 4.00 72.00 0.22 0.013

18.61 18.59 circ 1 0.00 2.00 10.00 0.20 0.013

15.73 15.70 Circ 1 0.00 4.00 12.00 0.25 0.013

FOR ANALYSYS FREQUENCY of: 100 Years

Used	Intensity	Supply Q	Total Q
in)	(in/hr)	(cfs)	(cfs)
5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	$\begin{array}{c} 10.10\\ 10$	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	$\begin{array}{c} 4.423\\ 4.484\\ 4.423\\ 4.484\\ 4.363\\ 4.423\\ 4.363\\ 4.423\\ 4.363\\ 4.423\\ 4.605\\ 4.605\\ 4.605\\ 4.605\\ 4.726\\ 5.090\\ 4.726\\ 5.090\\ 4.666\end{array}$
5.00	10.10	0.000	6.847
5.00	10.10	0.000	6.847

/	Grate	Left-Slope	Right-Slope	Gutter	Depth	Critic
	Area	Long Trans	Long Trans	n DeprW	Allowed	Elev.
	(sf)	(%) (%)	(%) (%)	(ft)	(ft)	(ft)
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.40
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.40
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.40
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
	n/a	0.50 2.00	0.50 2.00 0.	014 1.50	0.50	26.00
-						

putation	Data.							
Length (ft)	Grat Perim (ft)	Area	Total Q (cfs)	Inlet Capacity (cfs)	Total Head (ft)	Ponded Left (ft)	Width Right (ft)	
5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a	$\begin{array}{r} 4.423\\ 4.484\\ 4.423\\ 4.484\\ 4.363\\ 4.423\\ 4.363\\ 4.423\\ 4.363\\ 4.423\\ 4.605\\ 4.605\\ 4.605\\ 4.726\end{array}$	$\begin{array}{c} 6.261 \\ 6.261 \\ 6.261 \\ 6.261 \\ 6.261 \\ 6.261 \\ 6.261 \\ 6.261 \\ 6.261 \\ 6.261 \\ 6.261 \\ 6.261 \end{array}$	0.397 0.400 0.397 0.400 0.393 0.397 0.393 0.397 0.407 0.407 0.415	$10.50 \\ 10.55 \\ 10.50 \\ 10.55 \\ 10.45 \\ 10.50 \\ 10.45 \\ 10.50 \\ 10.65 \\ 10.65 \\ 10.80 $	$10.50 \\ 10.55 \\ 10.50 \\ 10.55 \\ 10.45 \\ 10.50 \\ 10.45 \\ 10.50 \\ 10.65 \\ 10.65 \\ 10.80 $	

 $\mathbf{X}$ MIGUELANGEL A. SAUCEDA I TRO PIL . 121992

The seal appearing on this document was authorized by Miguelangel A. Sauceda P.E. 121992 12/6/21

OWNER: CHARLES VON SCHMIDT WATERSTONE DEVELOPMENT GROUP **185 CEDAR POINT DRIVE** LIVINGSTON, TX 77351 936-646-6767

20.45 20.30 0.095 1.22 2.00 4.12 2.63 8.26 11.96 0.000

HORIZONTAL: VERTICAL:

PLAN:\_

PROFILE:

WinStorm (STORM DRAIN DESIGN)

PROJECT NAME : Untitled JOB NUMBER : PROJECT DESCRIPTION DESIGN FREQUENCY : 5 Years ANALYSYS FREQUENCY : 100 Years

	SYS FREQU REMENT UN		100 ENGLISH							ID	C Valu	e Area (acro			Used nin)	Inten (in/		Supply (cfs)		Total (cfs	-
				•	Y of: 5	Years	• ·			A-18 A-19	0.6 0.6	1.0			L5.00 L5.00	10.1 10.1	-	0.000		6.4 6.1	
												nfigurat									
ID 	C Value	Area (acr	e) (mi	n) (m	Used : in)		(cfs)	(cfs	5)		Inlet	Length/ o Perim.	Grate   Area	Left-Sl Long Ti	lope R rans L	ight-Slo	pe G	utter DeprW	Dep	oth	Critic Elev
A-18 A-19 	0.6 0.6	1.0 1.0	7 15. 1 15.		.5.00 .5.00	6.64 6.64	0.000			 A-18	Curb	(ft) 	(sf) n/a	(%) 0.50 2		%) (%) .50 2.0		(ft) + 1.50	(ft 0.	t) 	(ft) 
Sag Tr	nlets Con	figurat	ion Dat	a.						A-19	Curb	5.00	n/a			.50 2.0				50	26.0
					ope Righ		Gutter	Depth	Critic			mputatio									
ID	Туре Р (	erim. ft)	Area (sf)	Long Tr (%) (	ans Long %) (%)	Trans (%)	n DeprW (ft)	Allowed (ft)	Elev. (ft)		Inlet Type	Length		te Area	Total (cfs)	Q Inl Capac	et T ity ⊦	otal lead (ft)	Ponded Left (ft)		h t
A-18 A-19 	Curb Curb	5.00 5.00		0.50 2.			).014 1.50 ).014 1.50	0.50 0.50	26.00 26.00	A-18 A-19	Curb Curb	5.00 5.00	n/a n/a	n/a n/a	6.48 6.12			).483 ).492	12.15 11.85	12. 11.	
	nlets Com												 · ,								
		Length	Gra Perim	ite 1 Area	Total Q	Inlet Capacity	/ Head	Ponded Widt Left Righ	:h nt	Node	Node	nction D Weighte	d Cumu	lat. Cu	umulat.		User	- Ac	ddition	nal	Total
		(ft)		(sf)	(cfs)	(cfs)	(ft)	(ft) (ft)		I.D.	Туре	C-Value	Dr.A (acr		TC (min)	(in/hr)	Suppl cfs		Q in No (cfs)		Disch (cfs)
A-18 A-19	Curb Curb	5.00 5.00	n/a n/a	n/a n/a	4.266 4.026	6.261 6.261		10.35 10. 10.15 10.		A-18 A-19	Curb Curb	0.600	2	.08	15.00 15.12	10.10 10.06	0.00	00	0.0	00	6.483 12.556
	ative Jun									OUT 	Outlt	0.600		.08 .	15.12	10.06	0.00		0.0		12.556
Node I.D.	Node		d Cumu	ilat. Cu Area	mulat. In Tc	tens.	User Ac	lditional ) in Node (cfs)	Total Disch. (cfs)			nfigurat									
A-18 A-19	Curb Curb	0.600 0.600	1 2	L.07 1 2.08 1	5.00 5.13	6.64 6.62	0.000 0.000	0.00 0.00	4.266 8.258	Run#		D. DS	US (ft)	DS (ft)	- Sha		an Ris t) (ft			lope (%)	n_value
OUT	Outlt	0.600		2.08 1	5.13	6.62	0.000	0.00	8.258			-19 UT	18.50 18.41	18.4 18.0	41 ci	rc 1 0. rc 1 0.				0.32 0.20	0.013
	yance Con																				
	Node I.D US DS	••	Flowlin US	ie Elev. DS		# Span	Rise Leng	gth Slope				draulic	-								
			(ft)	(ft)			(ft) (ft			Run#	US Ele	ic Grade v DS El	ev Fr.			ctual U		tual		Cap	Jund
	A-18 A- A-19 OU 		18.50 18.41	18.4 18.0		1 0.00 1 0.00		3.00 0.32 ).00 0.20		 1	(ft)  20.7	(ft) 6 20.	(%  65 0.3		(ft) (  1.41			(f/s)  3.67	(cfs)  6.48	(cfs)  5.96	
Conve	wance Hyd	lraulic	Computa	ations	Tailwate	r = 20.1	300 (ft)			2	20.6		30 0.2	20	1.75	2.00	4.31	4.00	12.56		0.000
	Hydrauli	c Grade	line	slope u		v al Uni	elocity	Q Cap	Junc Loss	NORM	AL TERM]	NATION O	F WINST	ORM.	,						
 1 2	20.50	20.	45 0.1	L65 (	).94 1.5	0 3.	57 2.41	4.27 5.90	6 0.000												

	<i>,</i> , , , , , , , , , , , , , , , , , ,									
	Hydraulic	Gradelin	e	Dep	 th	velo	ocity			Junc
Run#	US Elev	DS Elev	Fr.Slope	Unif.	Actual	Unif.	Actual	Q	Cap	Loss
	(ft)	(ft)	(%)	(ft)	(ft)	(f/s)	(f/s)	(cfs)	(cfs)	(ft)
1	25.23	25.18	0.182	0.97	1.50	3.70	2.54	4.48	5.96	0.000
2	25.18	24.79	0.154	1.44	2.00	3.67	2.82	8.87	10.10	0.000
3	24.82	24.77	0.182	1.01	1.50	3.55	2.54	4.48	5.62	0.000
4	24.77	24.45	0.573	2.00	2.00	5.45	5.45	17.12	12.09	0.000
5	24.67	24.60	0.172	0.96	1.50	3.65	2.47	4.36	5.84	0.000
6	24.60	24.21	0.149	1.44	2.00	3.61	2.78	8.73	10.10	0.000
7	24.25	24.21	0.172	0.98	1.50	3.55	2.47	4.36	5.62	0.000
8	24.21	23.90	0.555	2.00	2.00	5.36	5.36	16.85	12.47	0.000
9	24.45	23.90	0.273	1.72	2.50	5.96	4.37	21.44	26.01	0.000
10	23.90	22.91	0.396	3.00	3.00	5.94	5.94	41.97	29.65	0.000
11	22.97	22.91	0.202	1.05	1.50	3.56	2.67	4.73	5.62	0.000
12	22.91	22.17	0.249	3.50	3.50	5.22	5.22	50.24	45.15	0.000
13	22.23	22.17	0.202	1.05	1.50	3.56	2.67	4.73	5.62	0.000
14	22.17	21.35	0.330	3.50	3.50	6.01	6.01	57.81	45.18	0.000
15	21.35	20.81	0.366	3.50	3.50	6.33	6.33	60.91	44.54	0.000
16	20.86	20.81	0.425	1.50	1.50	3.87	3.87	6.85	6.07	0.000
17	20.79	20.48	0.253	3.25	4.00	6.61	5.75	72.25	71.83	0.000
18	20.48	20.30	0.253	3.50	4.00	6.20	5.75	72.25	67.72	0.000
19	24.79	24.77	0.154	1.44	2.00	3.67	2.82	8.87	10.12	0.000
20	20.81	20.79	0.213	3.00	4.00	6.56	5.28	66.31	71.83	0.000

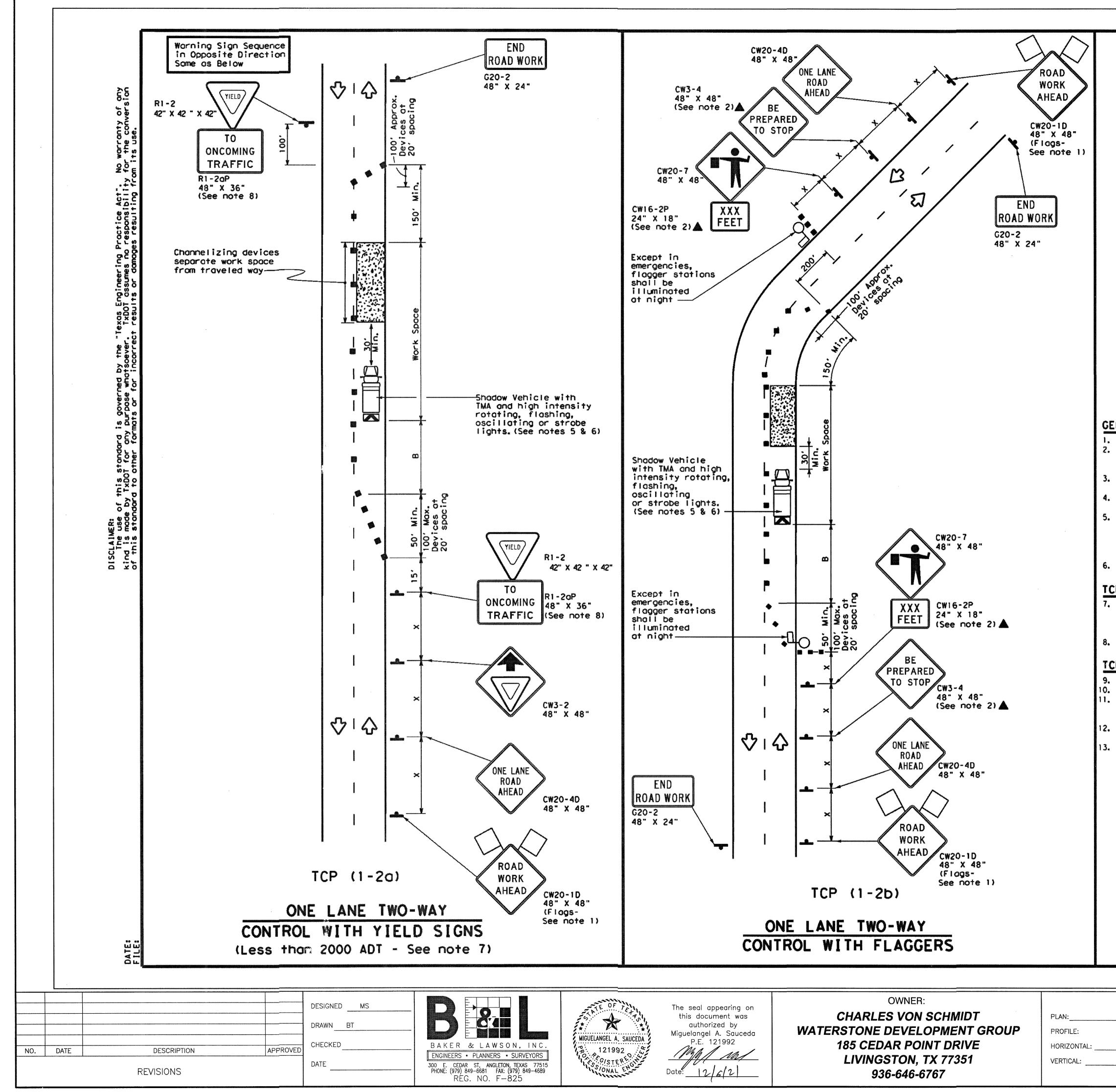
NORMAL TERMINATION OF WINSTORM.

### Version 3.05, Jan. 25, 2002 Run @ 4/20/2020 9:20:29 AM

OUTPUT FOR ANALYSYS FREQUENCY of: 100 Years

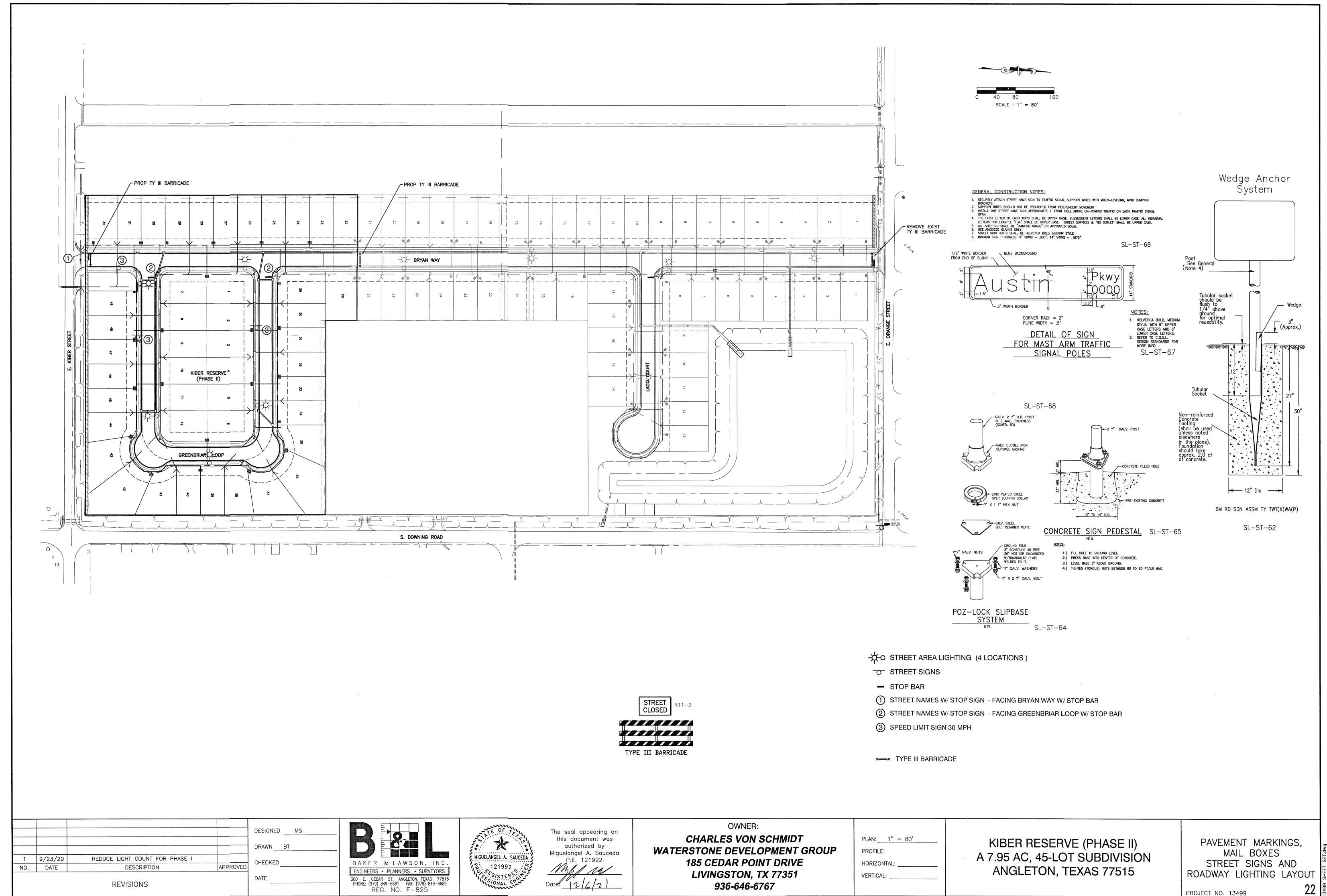
Runoff Computation for Analysis Frequency.

## KIBER RESERVE (PHASE II) A 7.95 AC, 45-LOT SUBDIVISION ANGLETON, TEXAS 77515



					LEGEN	JD			1			
	ezzz	a Type	e 3 Ba	rrico	Ĩ	0 0	Channeliz	ing Devices				
		-	y Wor				Truck Mou Attenuato	inted	-			
			iler M shina		d Board	M	Portable	Changeable Sign (PCMS)				
		Sign				$\overline{\langle}$	Traffic F	-				
	$\bigtriangleup$	FIO	<b>\$</b>		×	L <sub>O</sub>	Flagger					
			Minimum esirobi		Suggeste	d Maxim ng of	winimum					
Speed	Formula		er Leng X X		Chonne	lizing	Sign Spacing	Suggested Longitudinal Buffer Space	Stopping Sight Distance			
*		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangen						
30 35	$L = \frac{WS^2}{60}$	150' 205'	165' 225'	180' 245'	30' 35'	60' 70'		90' 120'	200'			
40	L = 60	265'	295'	320'		80'		155'	250' 305'			
45		450'	495'	540'	45'	90′		195'	360 <i>°</i>			
50		500'	550'	600'	50'	100'		240'	425'			
55 60	L=WS	550' 600'	605' 660'	660° 720'		110'		295' 350'	<u>495'</u> 570'			
65		650'				130'		410'	570 645'			
70		700'	770'	840'	70'	140'		475'	730'			
75		750'	8251	900'	75'	150'	900'	540'	820'			
				w=wid T	ounded off. idth of Offset(FT) S=Posted Speed(MPH) TYPICAL USAGE SHORT TERM INTERMEDIATE LONG TERM STATIONARY TERM STATIONARY STATIONARY							
			1		1							
ied if c Shadow advance ality c atraff by be su dition abse sha (1-2 -2 "YIE lequate an one baces sh -2 "YIE a 7 fc (1-2 aggers ength of the wo bould be ad a que anneliz affic c aggers	vehicle vehicle ce of the of the wo fic contr dostitute al Shadow own in or <b>a)</b> (LD" sign half cit half cit ha	varning with a e area ork. If fol to ed for v Vehice der to der to der to der to fol to for v Vehice der to order to no lon h with num mou use two bace sh e is lo sed in topped ices on oved by use 24	ahead TMA s of cre worke remain the Sh les wi prote ic con the Sh les wi ic con the Sh les wi prote ic con the Sh les wi prote	of th hould w expo rs are in pl adow V th TMA ct wid trol m projec rural an 400 P "TO height adios e base near a to mai es (se enter- nginee SLOW p	he flagger be used o bsure with ano longe lace, Type (ehicle and (ehicle and (	r or R1- onytime hout add er prese a 3 Barn nd TMA. positic spaces. ed on pr ban area roadway TRAFS10 methods ability tal or methods ability tal or methods above). be omit	-2 "YIELD" a it can be p versely affe ent but road ricades or a oned off the rojects with os, work spa ys with less c" plaque st s of community of flagger vertical cur stopping sig tted when a	NORK AHEAD" si sign is less bositioned 30 ecting the per d or work cond other channel e paved surface h approaches baces should be s than 2000 Al hall be placed ication to con rs to communic rve, the buffe ght distance pilot car is Flags should	than 1500 to 100 fer formance ditions re izing devi ce, next to that have e no longe DT, work d on a sup ntrol traffic to the fic leading d be <i>Tra</i>	feet. et or equire ices to er oport		
				<b>.</b>	TF	RAFF ONE TR/	IC CO -LANE AFFIC CP(1	ransportation NTROL TWO-W CONTR( -2) - 1 (	Stan PLAN AY DL	sion dard CK1		

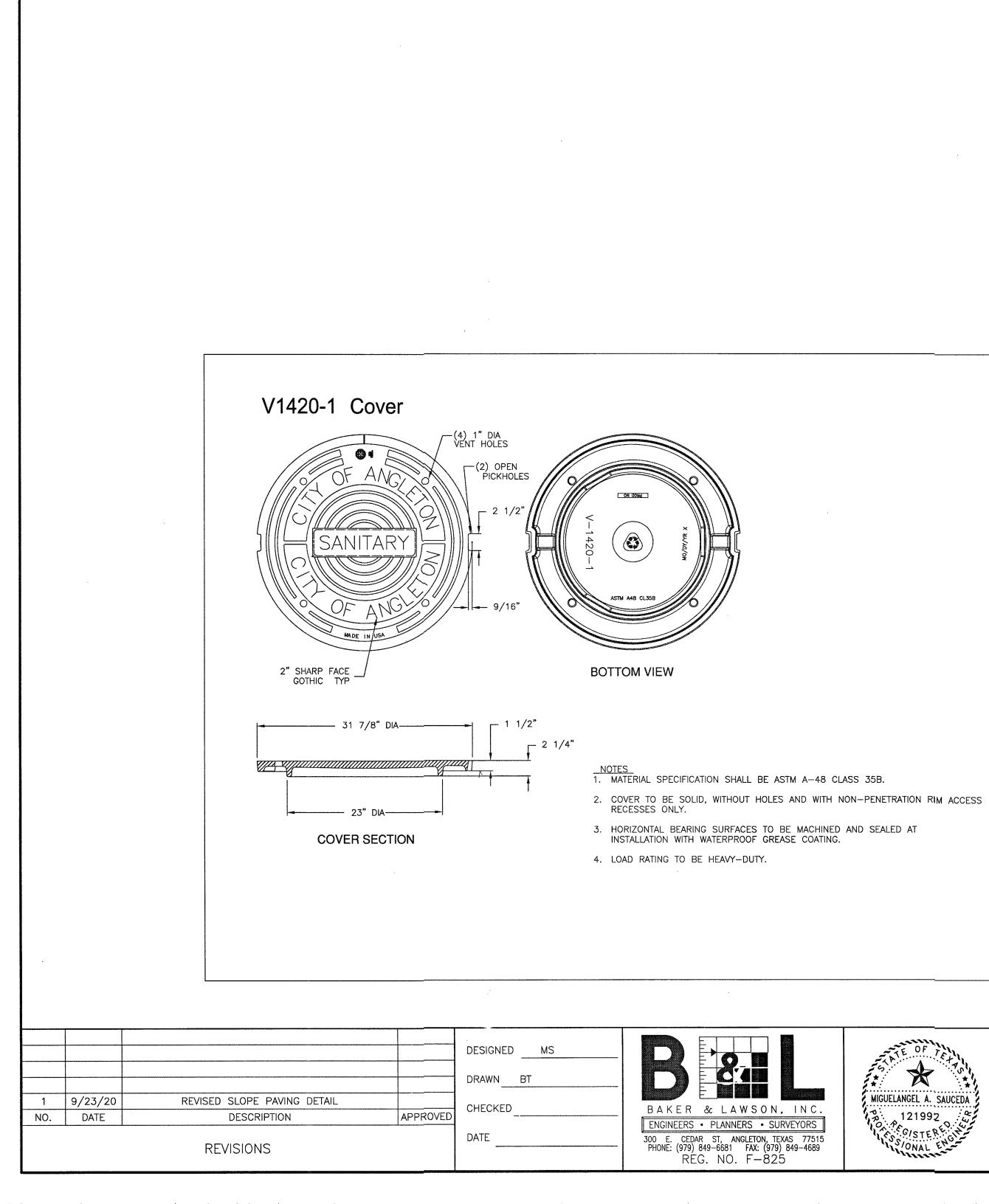
ANGLETON, TEXAS 77515



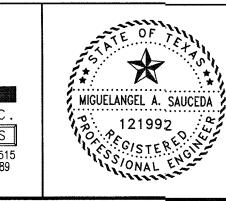
-\$\$-0	STREET
-0-	STREET
	STOP BA
1	STREET I
2	STREET I
3	SPEED LI

PLAN:	1"	=	80'			
PROFILE	Ξ:					
HORIZONTAL:						
VERTICA	\L:					

ROJECT	NO.	13499



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The seal appearing on this document was authorized by Miguelangel A. Sauceda P.E. 121992 Mapl ml Date: 12 6/21

OWNER: CHARLES VON SCHMIDT WATERSTONE DEVELOPMENT GROUP 185 CEDAR POINT DRIVE LIVINGSTON, TX 77351 936-646-6767

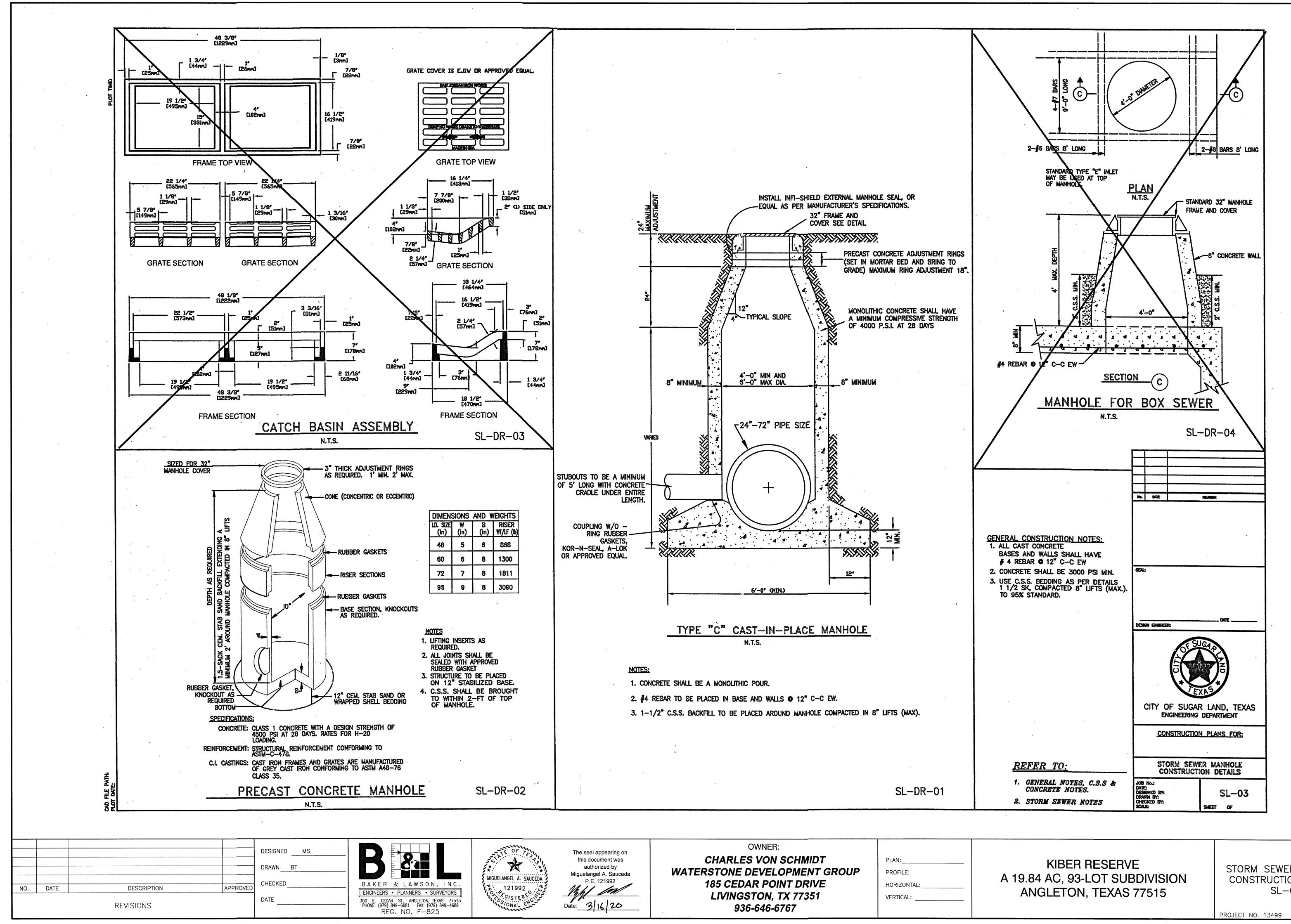
.

PLAN: 1" = 60'PROFILE: HORIZONTAL: VERTICAL:

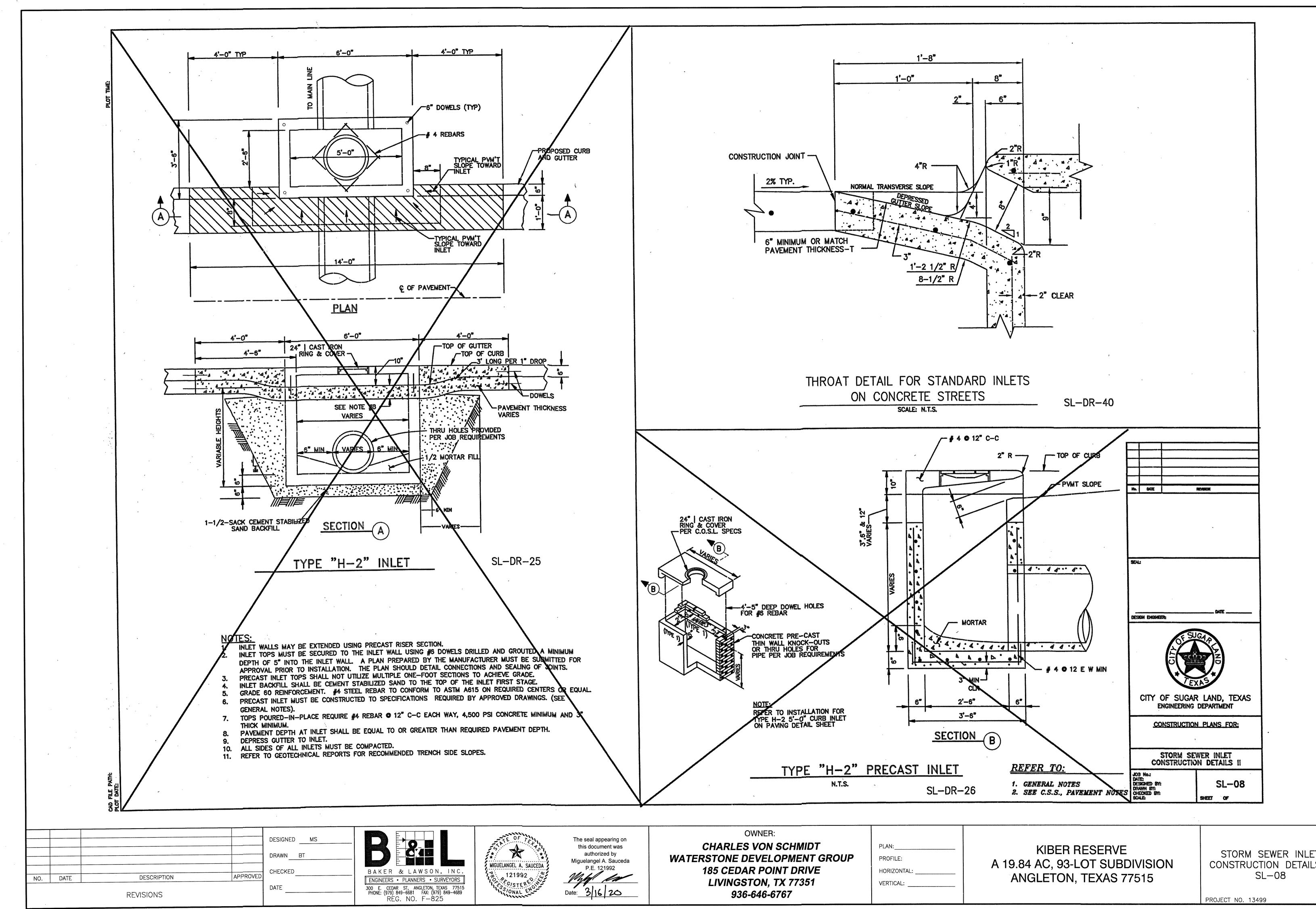
## KIBER RESERVE (PHASE II) A 7.95 AC, 45-LOT SUBDIVISION ANGLETON, TEXAS 77515

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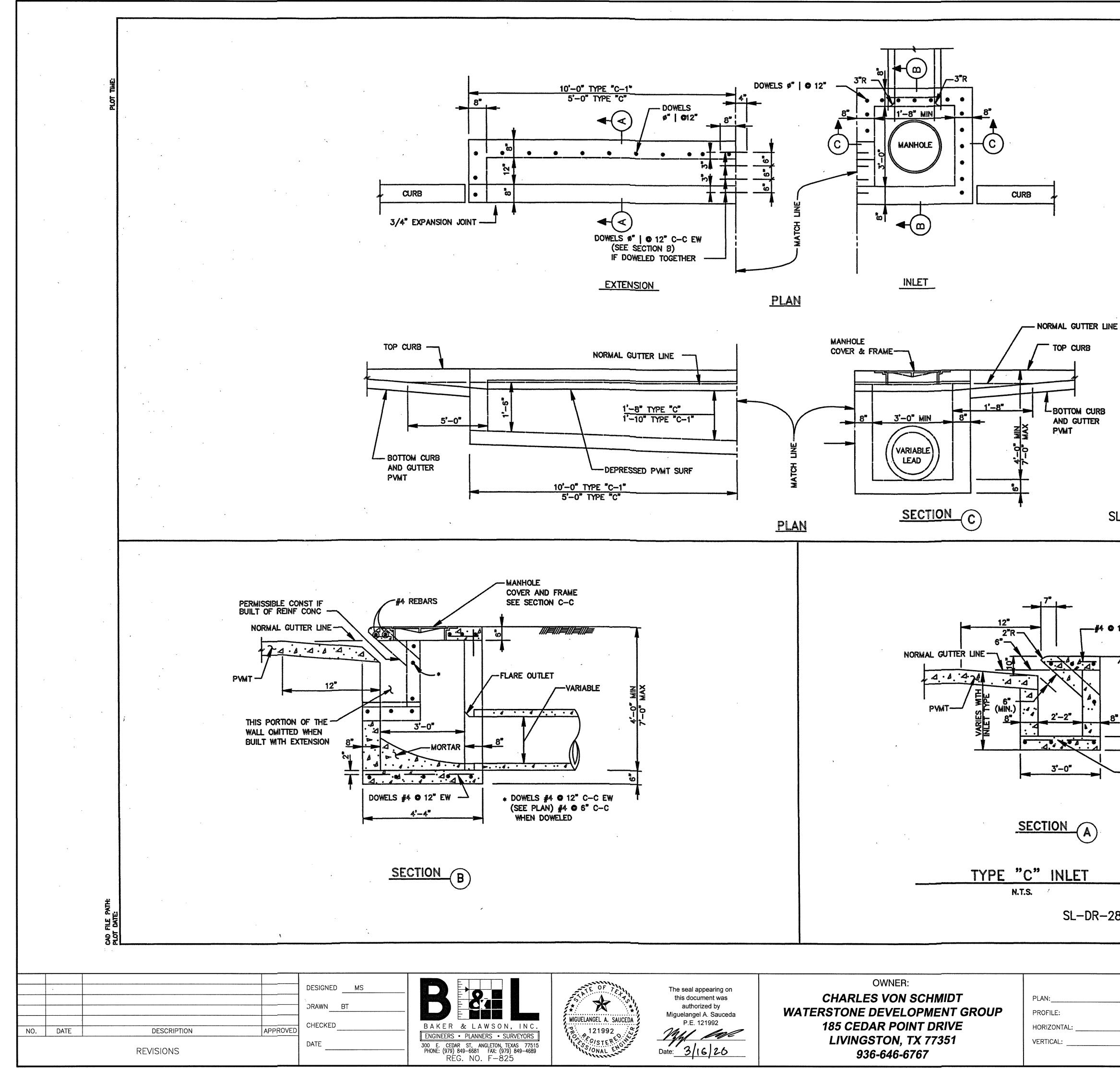
MISCELLANEOUS DETAILS

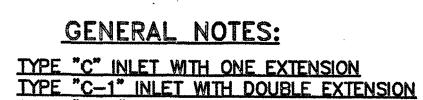


STORM SEWER MANHOLE CONSTRUCTION DETAILS SL-03



 KIBER RESERVE A 19.84 AC, 93-LOT SUBDIVISION ANGLETON, TEXAS 77515	STORM SEWER INLET CONSTRUCTION DETAILS II SL-08	
	PROJECT NO. 13499 2	5





TYPE "C-2" INLET WITH EXTEN. ON EACH SIDE TYPE "C-2A" INLET WITH NO EXTENSION

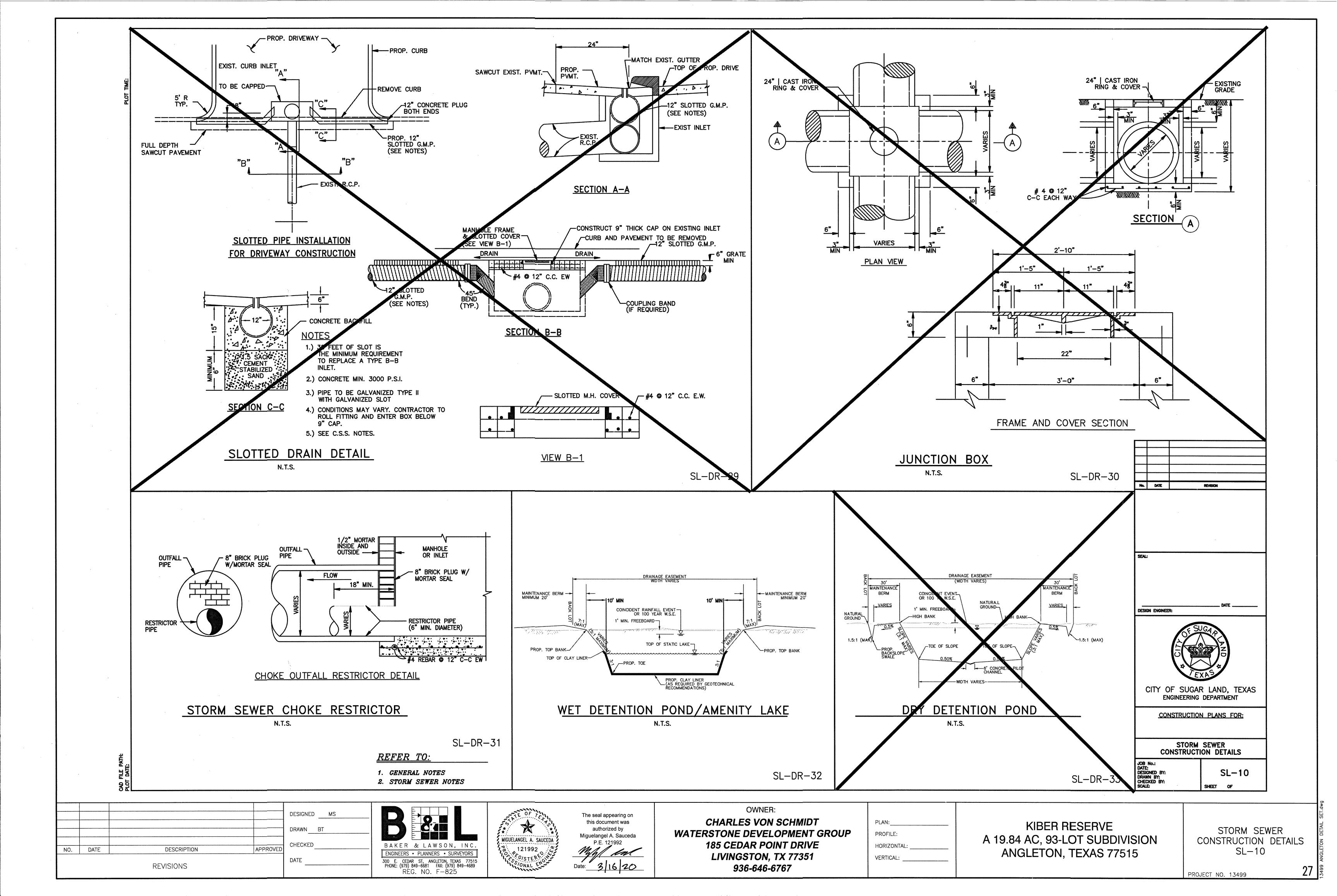
## NOTES:

- 1. FOR TYPE "C-1" INLETS PROVIDE A CENTER 6"X6" COLUMNS IN THE CURB LINE BETWEEN ALL EXTENSIONS.
- 2. WALLS TO BE 8" IF BUILT WITH REINFORCED CONCRETE. BRICK WALLS ARE NOT ALLOWED.

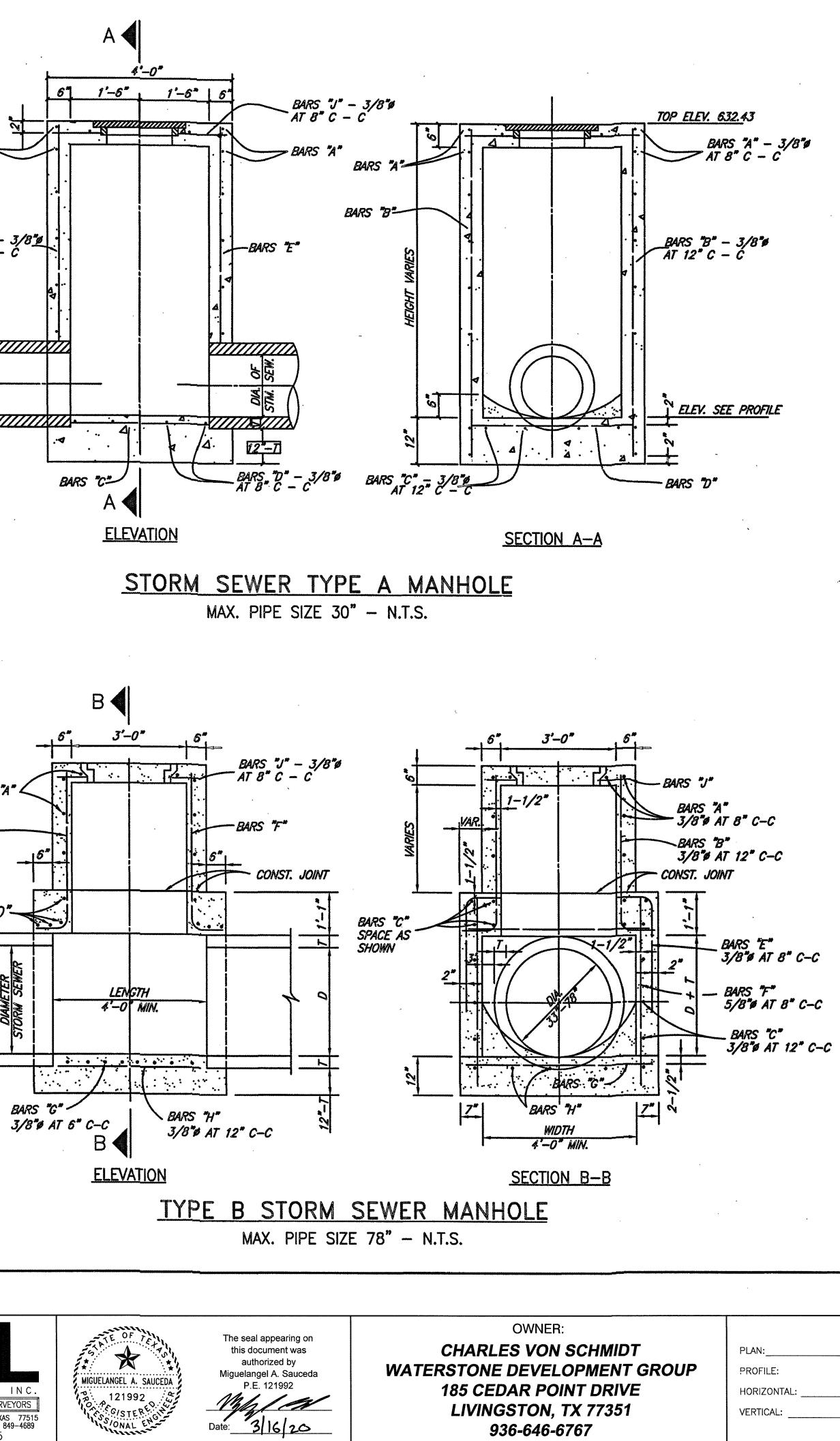
SL-DR-27					
·					
			DATE		
• 0 12" E W NATURA GROUNE					
		SEA	2		
8"	x	DES	KAN ENGINEE	R	
#4 • 12" E	A				IGA APLANE
			CITY (	OF SUGA	R LAND, TEXAS DEPARTMENT
			CO	NSTRUCTIO	N PLANS FOR:
	<u>REFER TO:</u>		CON	STORM SE	WER INLET N DETAILS III
-28	1. GENERAL NOTES 2. STORM SEWER NOTES	DAT DES DRA	No.: E: KGNED BY: MN BY: ICKED BY: LE:		SL-09

 KIBER RESERVE A 19.84 AC, 93-LOT SUBDIVISION ANGLETON, TEXAS 77515	STORM SEWER INLET CONSTRUCTION DETAILS SL-09	
	PROJECT NO 13499	26

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	PLOT TIME:					
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						BARS "G"
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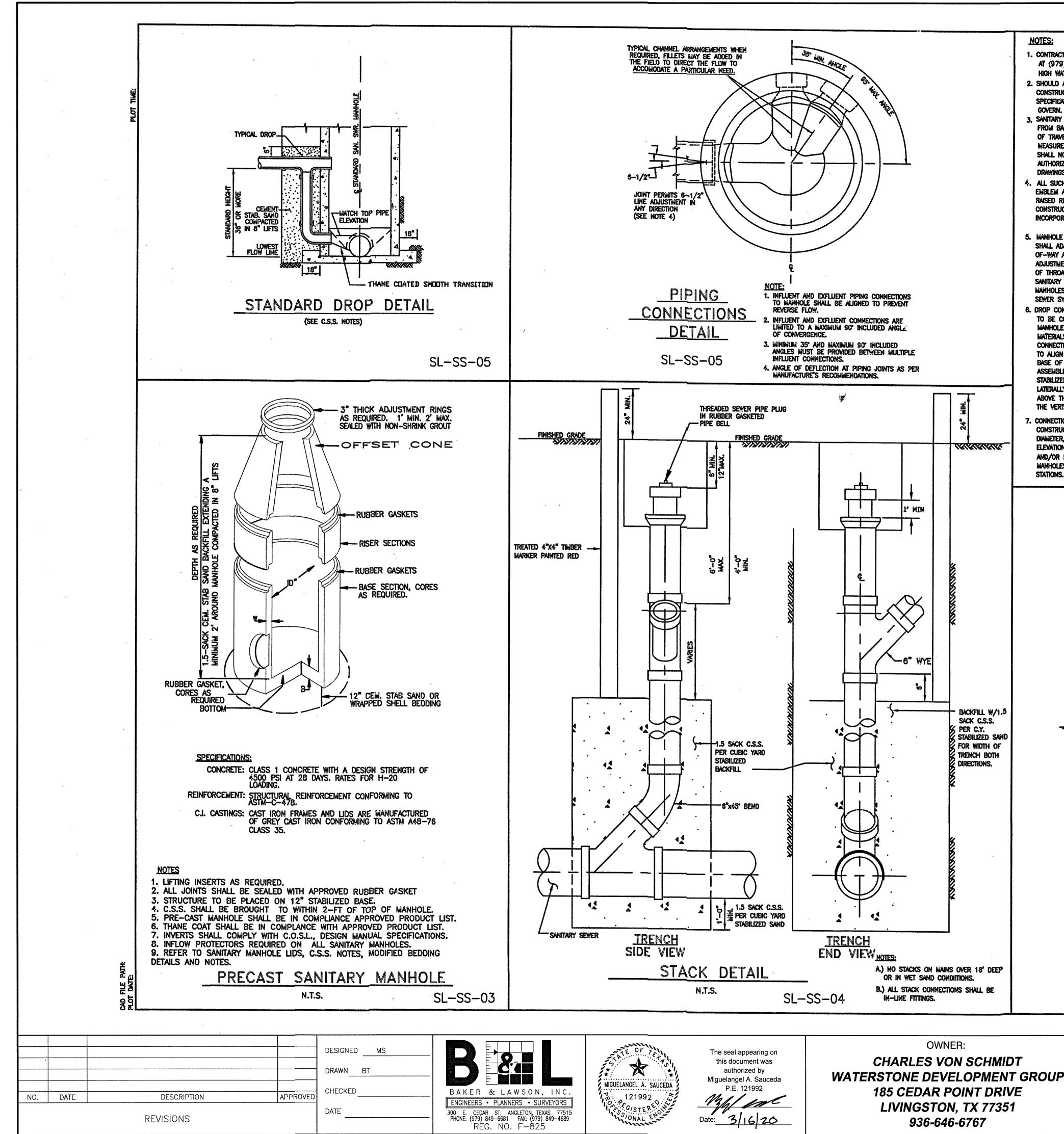
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·	CITY OF SUGAR LAND, TEXAS ENGINEEREING DEPARTMENT CONSTRUCTION PLANS FOR:
	JUNCTION BOX MANHOLES
	JOB NO.: DATE: DESIGNED BY: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE: SCALE: SHEET OF

## **KIBER RESERVE** A 19.84 AC, 93-LOT SUBDIVISION ANGLETON, TEXAS 77515

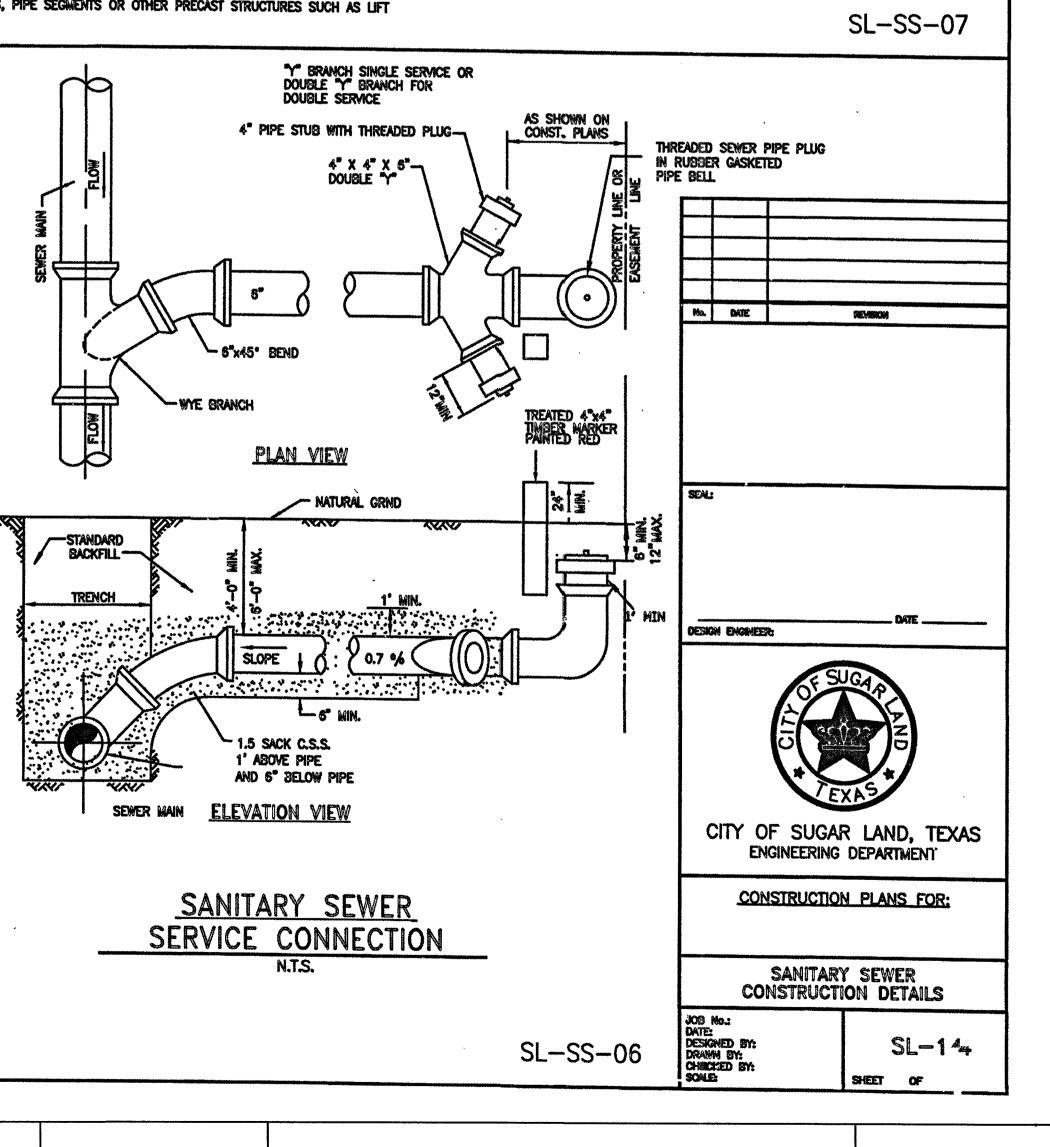
JUNCTION BOX MANHOLES SL-11

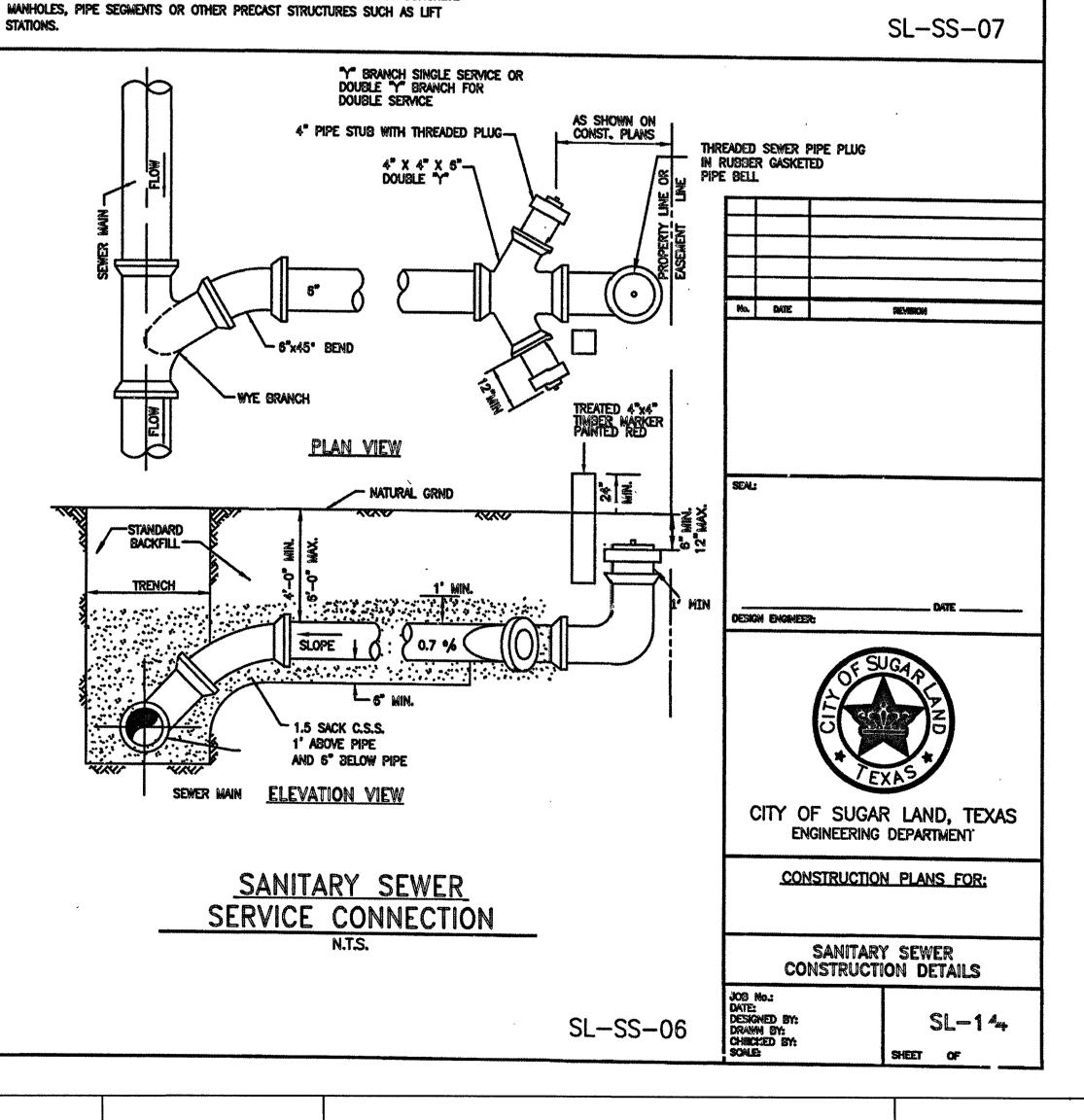


## PLAN: PROFILE: HORIZONTAL: VERTICAL:

### NOTES:

- 1. CONTRACTOR SHALL CONTACT CITY OF ANGLETON ENGINEERING DEPARTMENT AT (979) 849-4354 IF WET SAND OR OTHER UNSTABLE SOIL CONDITIONS.
- 2. SHOULD A CONFLICT ARISE BETWEEN INFORMATION DEPICTED ON APPROVED CONSTRUCTION DRAWINGS AND INFORMATION INCLUDED IN PROJECT SPECIFICATIONS, CITY OF ANGLETON DESIGN STANDARDS SHALL GOVERN.
- 1. SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED A MINIMUM OF FOUR FOOT FROM BACK OF CURB ON CURB AND GUTTER ROADWAYS AND THREE FEET FROM EDGE OF TRAVELLED ROADWAY ON THOSE THOROUGHFARES HAVING NO CURBING. MEASURED FROM OUTSIDE DIAMETER OF MANHOLE. SANITARY SEWER MANHOLES SHALL NOT BE INSTALLED BENEATH STREET PAVING EXCEPT WHERE SPECIFICALLY AUTHORIZED BY CITY ENGINEER AND SO DESIGNATED ON APPROVED CONSTRUCTION DRAWINGS.
- 4. ALL SUCH MANHOLE COVERS SHALL HAVE THE CITY OF ANGLETON ENBLEM AND THE WORDS "ANGLETON" AND "SANITARY SEWER" CAST IN RAISED RELIEF AS DEPICTED IN CITY OF ANGLETON STANDARD CONSTRUCTION DETAILS SHEETS. ALL SANITARY SEWER MANHOLES SHALL INCORPORATE INFLOW PROTECTORS.
- 5. MANHOLE RIM ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY. CONTRACTORS SHALL ADJUST RIM ELEVATIONS TO 10.4 FEET ABOVE FINISHED GRADE WITHIN RIGHTS-OF-WAY AND EASEMENTS AT EACH MANHOLE LOCATION AFTER FINAL GRADING. ADJUSTMENTS TO MANHOLE RIM ELEVATIONS SHALL BE ACCOMPLISHED BY THE USE OF THROAT RINGS ONLY (MAX. OF 24 INCHES PERMITTED). THE AREA ADJACENT TO SANITARY SEWER MANHOLE LOCATIONS SHALL BE GRADED AWAY FROM SUCH MANHOLES SO AS PREVENT ENTRY OF STORM WATER RUNOFF TO THE SANITARY SEWER SYSTEM.
- 6. DROP CONNECTIONS ARE REQUIRED WHEN INVERT ELEVATION OF SEWER LINE TO BE CONNECTED EXCEEDS 38 INCHES DISTANCE ABOVE INVERT ELEVATION OF MANHOLE BASE. ALL DROP CONNECTIONS SHALL BE CONSTRUCTED OF SAME MATERIALS AS SEWER AND SHALL BE CONSTRUCTED EXTERIOR TO MANHOLE. PIPE CONNECTIONS TO MANHOLES SHALL BE SO CONSTRUCTED AS TO BE WATERTIGHT AND TO ALIGN UPPER INSIDE PIPE WALL ELEVATIONS OF ALL PIPING CONNECTED TO BASE OF MANHOLE UNIFORMLY, REGARDLESS OF PIPE DIAMETERS. DROP ASSEMBLIES SHALL BE BEDDED IN CEMENT STABILIZED SAND. CEMENT STABILIZED SAND SHALL EXTEND A MINIMUM OF SIX INCHES PAST PIPING LATERALLY FROM BASE OF MANHOLE UPWARD TO A POINT SIX INCHES (MINIMUM) ABOVE THE HORIZONTAL SEWER PIPING WHERE CONNECTED TO THE MANHOLE ABOVE THE VERTICAL DROP.
- . CONNECTIONS TO EXISTING AND/OR NEW SANITARY SEWER MANHOLES CONSTRUCTED OF PRECAST CONCRETE NOT HAVING PRECORED HOLES OF CORRECT DIAMETER. LOCATION AND FIELD CORING ONLY SHALL ACCOMPLISH INVERT ELEVATION. IN NO INSTANCE WILL EITHER MANUAL OR PNEUMATIC CHISELS AND/OR HAMMER DRILLS BE UTILIZED TO BREAK HOLES IN PRECAST CONCRETE STATIONS.

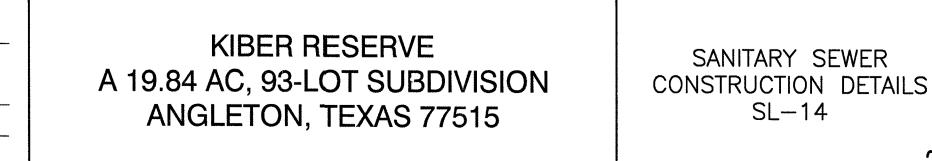


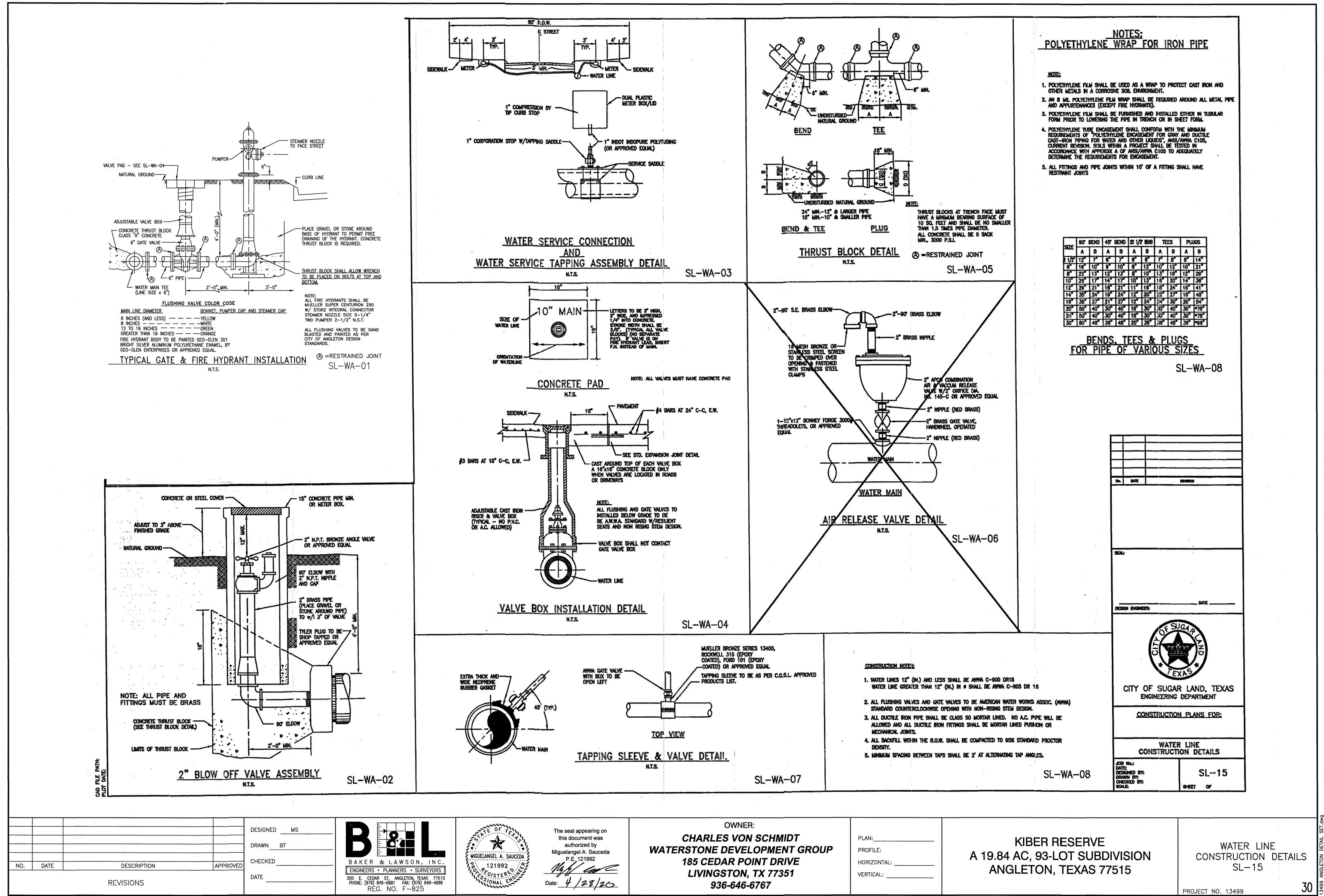


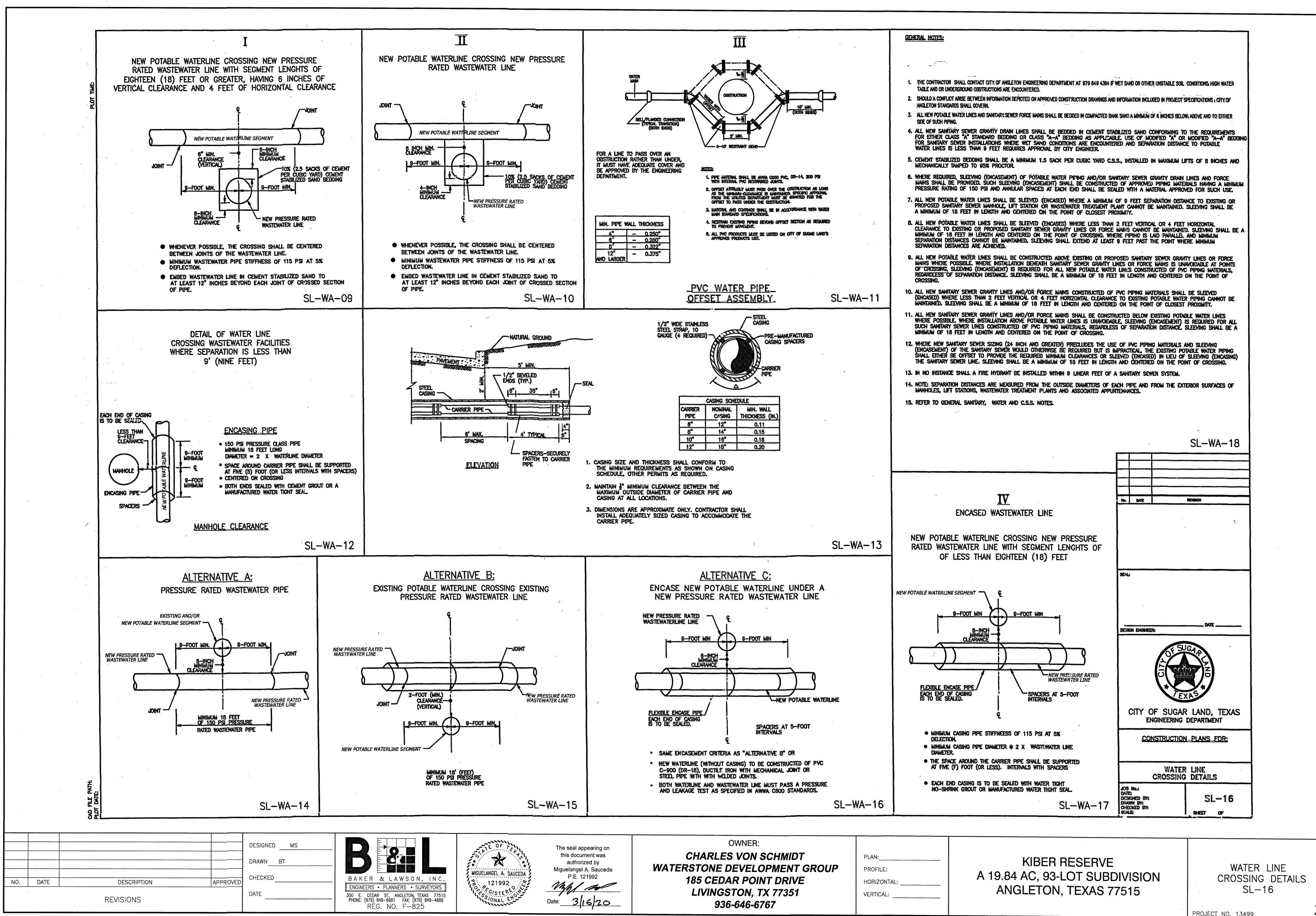
HIGH WATER TABLE AND/OR UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED.

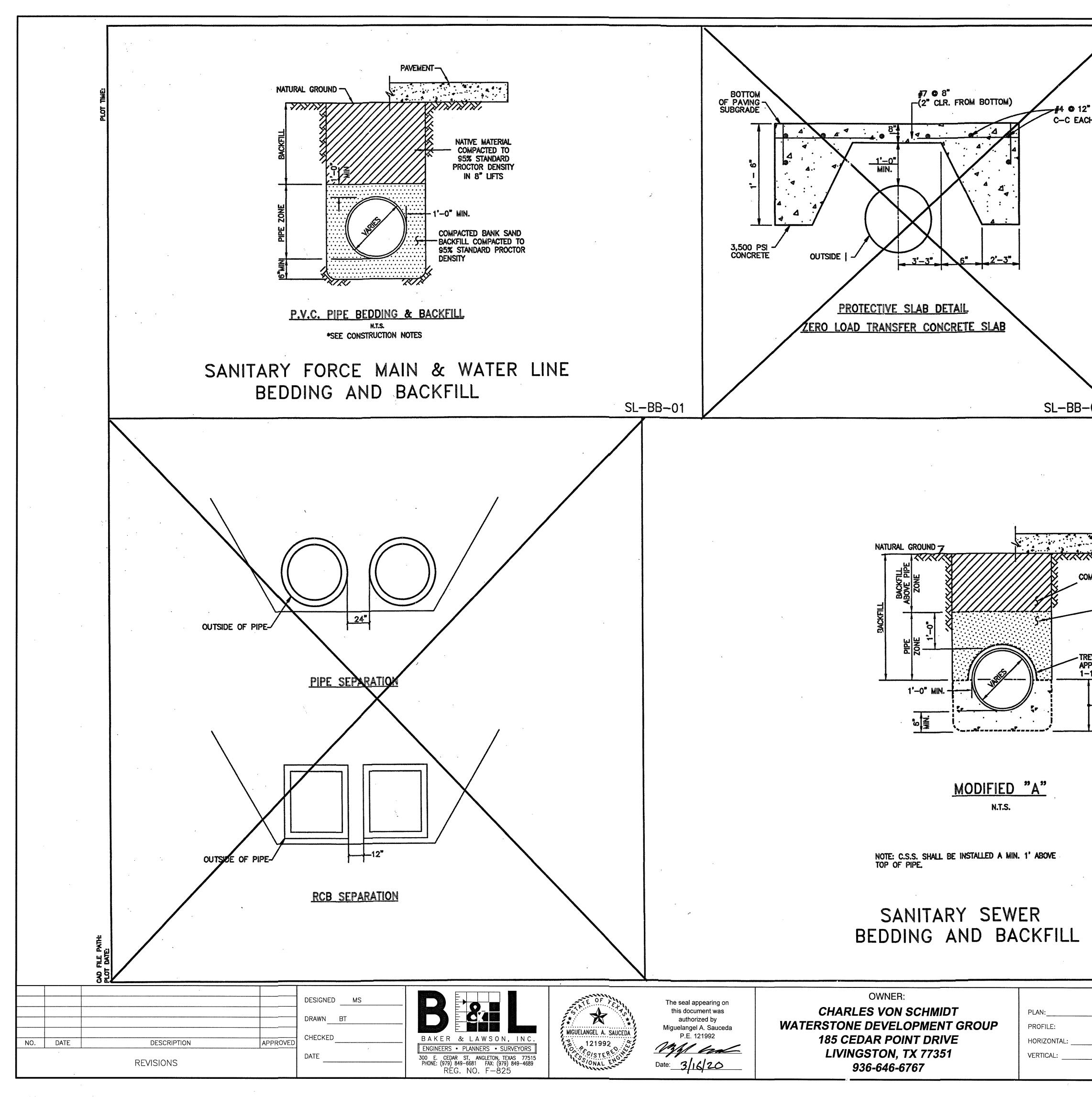
8. BEDDING AND BACKFILL OF SANITARY SEWER PIPING AND MANHOLES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH CITY OF ANGLETON DESIGN STANDARDS. A 1.5-SACK MIX IS REQUIRED FOR ALL CEMENT STABILIZED SAND BEDDING AND SUCH BEDDING SHALL BE INSTALLED IN LIFTS OF EIGHT INCHES MAXIMUM. .....

- 9. SOLVENT WELDED JOINTS ARE NOT AN ACCEPTABLE JOINING METHOD FOR SANITARY SEWERS CONSTRUCTED OF PVC PIPING MATERIALS AND LOCATED WITHIN RIGHTS-OF-WAY OR EASEMENTS. RUBBER GASKETED BELL AND SPIGOT SANITARY SEWER JOINTS ARE MANDATORY. BELL (FEMALE) ENDS OF PIPE SHALL BE INSTALLED ON UPSTREAM SIDE WITH SPIGOT (MALE) ENDS ORIENTED DOWNSTREAM.
- 10. SANITARY SEWER SERVICE LEADS SHALL BE EXTENDED TO RIGHTS-OF-WAY AND/OR EASEMENT LINES AS APPLICABLE AND CAPPED/PLUGGED FOR FUTURE CONNECTIONS. SERVICE LEADS ARE TO BE INSTALLED SC AS TO PASS UNDER POTABLE WATER PIPING AT CROSSINGS WHERE POSSIBLE.
- 11. EACH SANITARY SEWER SERVICE LEAD STUB, PLUGGED WYE BRANCH OUTLET AND STACK SHALL BE MARKED WITH A PRESSURE TREATED 4 X 4 TIMBER AT THE TIME OF CONSTRUCTION, BEGINNING AT THE INVERT ELEVATION OF THE STUB OR WYE AND AT AN ELEVATION TWO FEET BELOW THE CAPPED TERMINATION POINT OF THE STACK AND EXTENDING TWO FEET ABOVE FINISHED GRADE. EACH TIMBER WARKER SHALL BE PAINTED RED AND LABELED "SANITARY SEWER STUB", "SANITARY SEWER WYE" OR "SANITARY SEWER STACK" AS APPROPRIATE WITH STUB, WYE BRANCH OUTLET OR STACK SIZE NOTED.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. DURING THE COURSE OF ANY AND ALL CLEARING, GRUBBING, FILL, GRADING, EXCAVATION OR OTHER CONSTRUCTION, CONTRACTOR SHALL ENSURE THAT STORM DRAINAGE PATHWAYS ARE MAINTAINED AND REMAIN OPEN TO ENSURE POSITIVE DRAINAGE AND THAT SUCH CONVEYANCES ARE NOT IMPEDED OR BLOCKED IN ANY WAY. STORM SEWER INLETS SHALL BE PROTECTED FROM ENTRY OF SILT, TRASH, DEBRIS AND ANY SUBSTANCES DELETERIOUS TO THE STORM SEWER SYSTEM AND/OR WATERWAYS RECEIMING STORM WATER RUNOFF. CONTRACTOR SHALL AT COMPLETION OF WORK, FILL LOW SPOTS AND GRADE ALL RIGHTS-OF-WAY AND UTILITY EASEMENTS AND REGRADE/RESTORE DITCHES AS NECESSARY TO MAINTAIN AND/OR ESTABLISH POSITIVE DRAINAGE.
- 13. ALL SANITARY SEWER PIPING AND BEDDING SHALL BE INSPECTED BY CITY CONSTRUCTION INSPECTOR FOR CONFORMANCE WITH CITY INFRASTRUCTURE STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY NOTIFY THE CITY OF ALL CONSTRUCTION ACTIVITIES AND TO CONFORM TO CITY OF ANGLETON PUBLIC WORKS DEPARTMENT INSPECTION POLICY.
- 14. C.S.S. 1' ABOVE PIPE AND 6" BELOW PIPE MINIMUM.
- 15. SEE GENERAL NOTES AND C.S.S. NOTES.

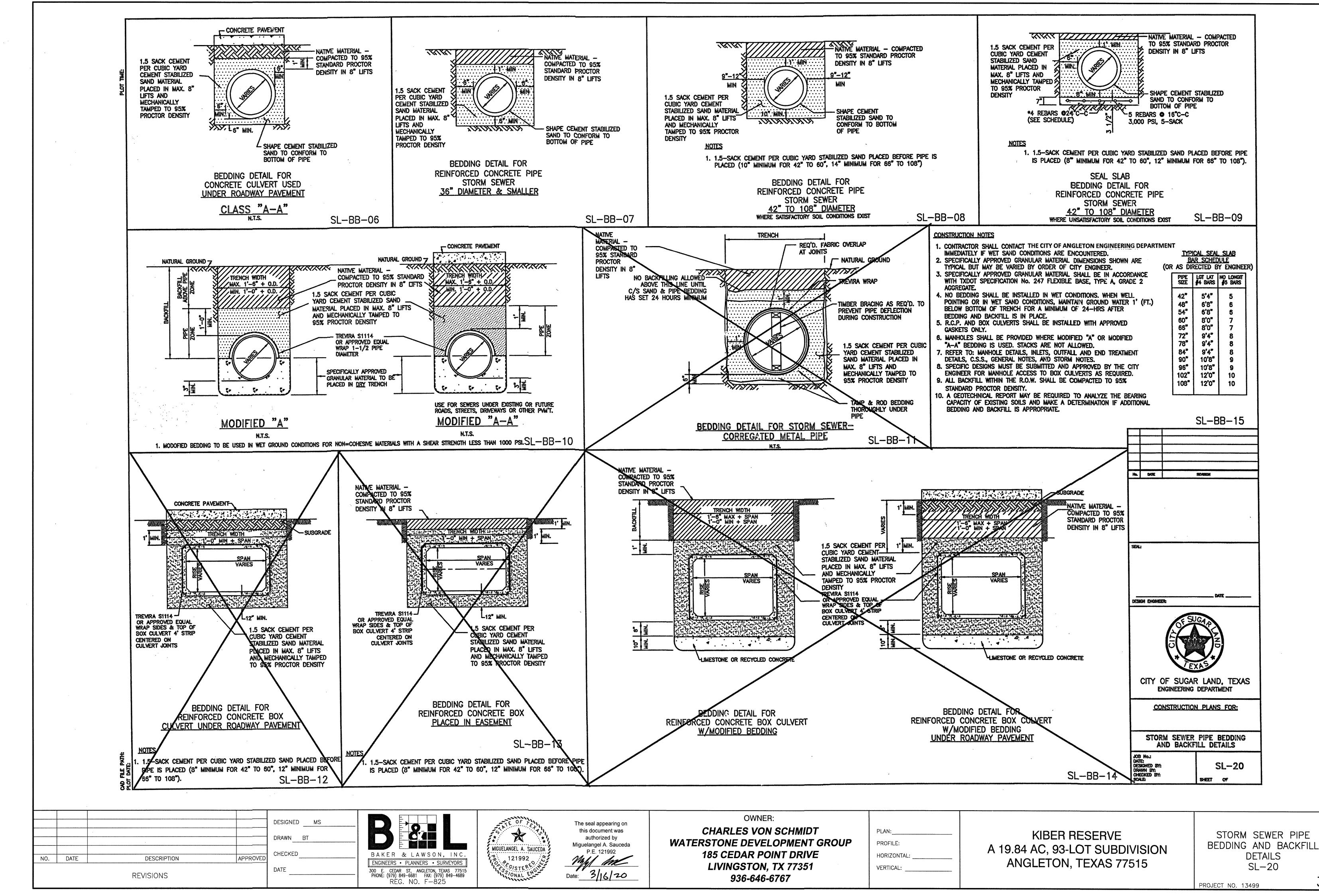


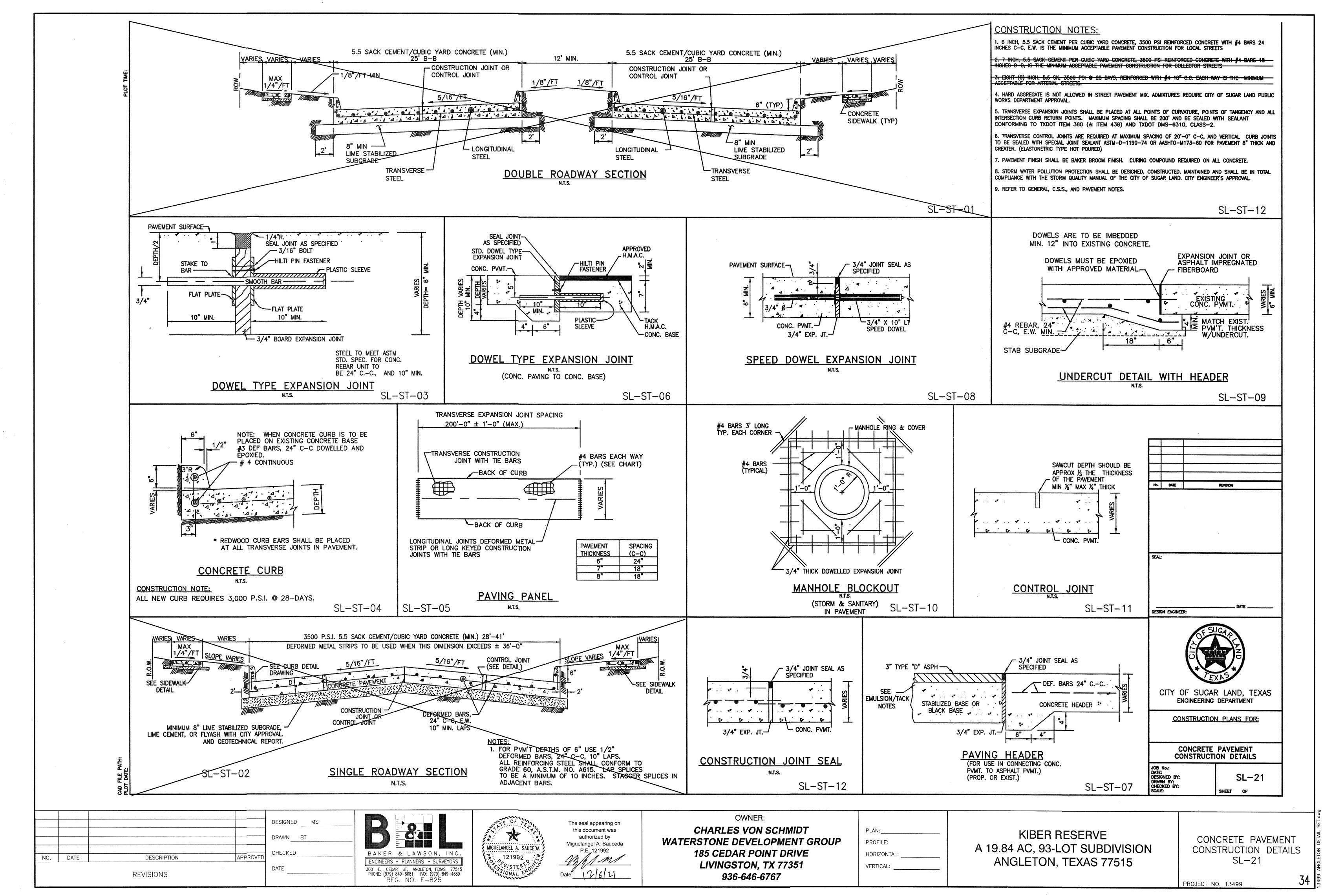


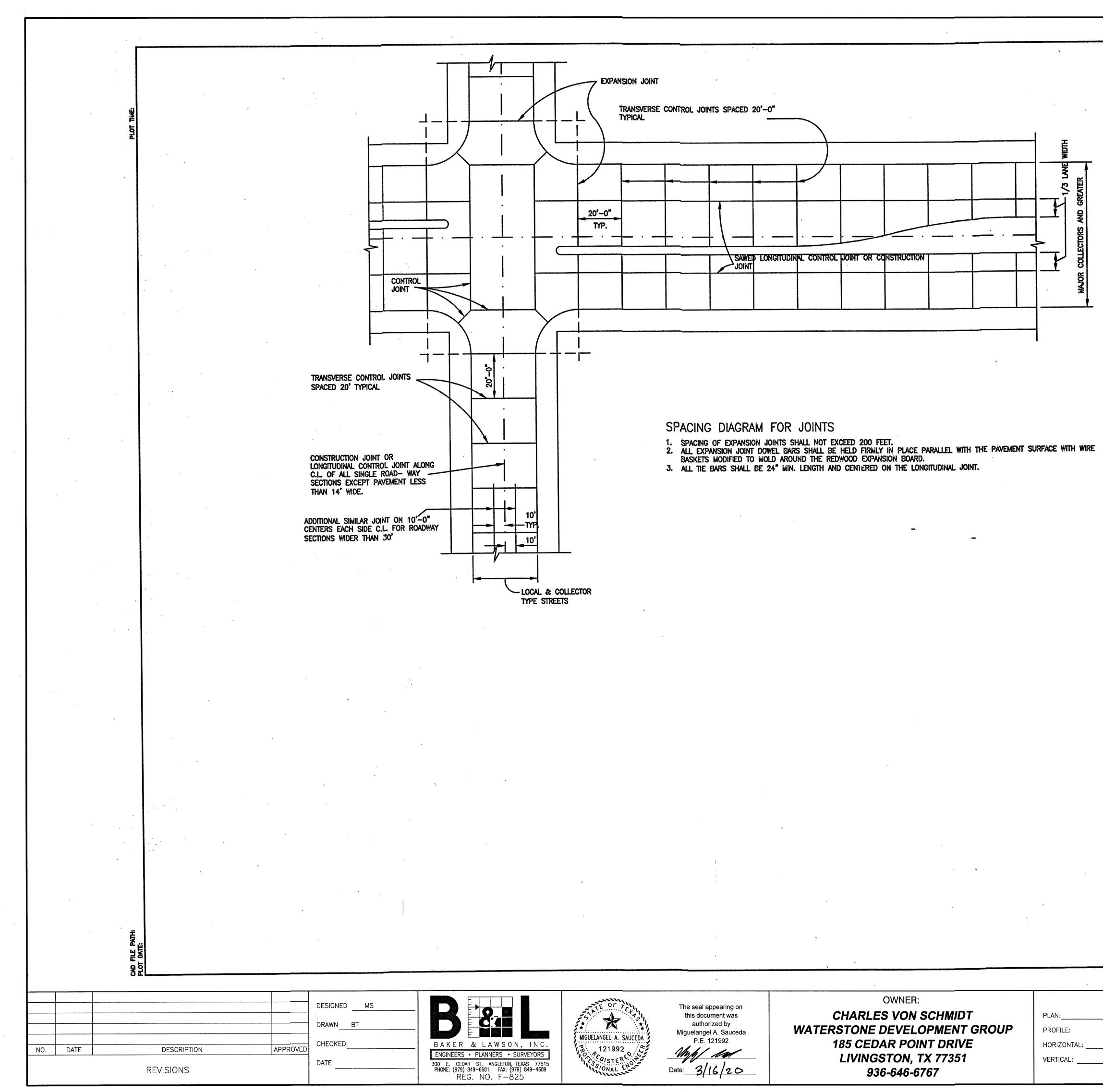




	CONSTRUCTION NOTES				
	1. CONTRACTOR SHALL CONTACT CITY OF ANGLETON ENGINEE		T AT (97	/9) 849-4364	
	IMMEDIATELY IF WET SAND CONDITIONS ARE ENCOUNTERE 2. LIMESTONE AND RECYCLED CONCRETE DIMENSIONS SHOW		. MAY BI	E VARIED BY ORDER	
XH WAY	OF CITY ENGINEER. 3. LIMESTONE OR RECYCLED CONCRETE SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATION NO. 248				
	FLEXIBABLE BASE, TYPE A, GRADE 2 AGGREGATE. 4. NO BEDDING SHALL BE INSTALLED IN WET CONDITIONS, WHEN WILL POINTING OR IN WET SAND CONDITIONS, MAINTAIN GROOUND WATER 1 (FT) BELOW BOTTOM OF TRENTCH FOR A MINIMUM OF				
	24-HOURS AFTER BEDDING ANND BACKFILL IS IN PLACE. 5. ALL MATERIALS SHALL BE FROM THE APPROVED PRODUCTS LIST UNLESS SPECIFICALLY APPROVED BY				
	THE CITY ENGINEER.				
	<ol> <li>6. SANITARY SEWER BEDDING FOR WET SAND CONDITIONS SH</li> <li>7. ALL SAND BEDDING FOR WATER LINES SHALL BE CLEAN, MEDDING FOR WATER LINES SHALL BE CLEAN FOR WATER LINES FOR WATER LINES SHALL BE CLEAN FOR WATER LINES FOR WATER LIN</li></ol>				
	8. REFER TO: MANHOLE DETAILS, SANITARY, C.S.S., GENERAL,				
	DETAILS AND NOTES. 9. ALL BEDDING WILL BE COMPACTED TO 95% STANDARD DEN	ISITY			
	10. A GEOTECHNICAL REPORT MAY BE REQUIRED TO ANALYZE	THE BEARING CAP			
	AND MAKE A DETERMINATION IF ADDITIONAL BEDDING AN	ID BACKFILL IS APP	ROPRIA	TE.	
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	D 95% STANDARD PROCTOR				
DEN	ISITY IN 8" LIFTS SACK CEMENT PER	itte Dige		REMENCIA .	
	BIC YARD CEMENT STABILIZED ND MATERIAL PLACED IN MAX. 8" LIFTS D MECHANICALLY TAMPED				
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MATER	FICALLY APPROVED GRANULAR NAL TO BE PLACED Y TRENCH.				
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	2. C.S.S. NOTES	DRAWN BY: CHECKED BY: SCALE:		SHEET OF	
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JOS No.: DATE: DESIGNED BY: DRAWN BY: CHECKED BY: SCALE:

REMISION

CITY OF SUGAR LAND, TEXAS ENGINEERING DEPARTMENT

CONSTRUCTION PLANS FOR:

CONCRETE PAVEMENT CONSTRUCTION DETAILS

KIBER RESERVE A 19.84 AC, 93-LOT SUBDIVISION ANGLETON, TEXAS 77515

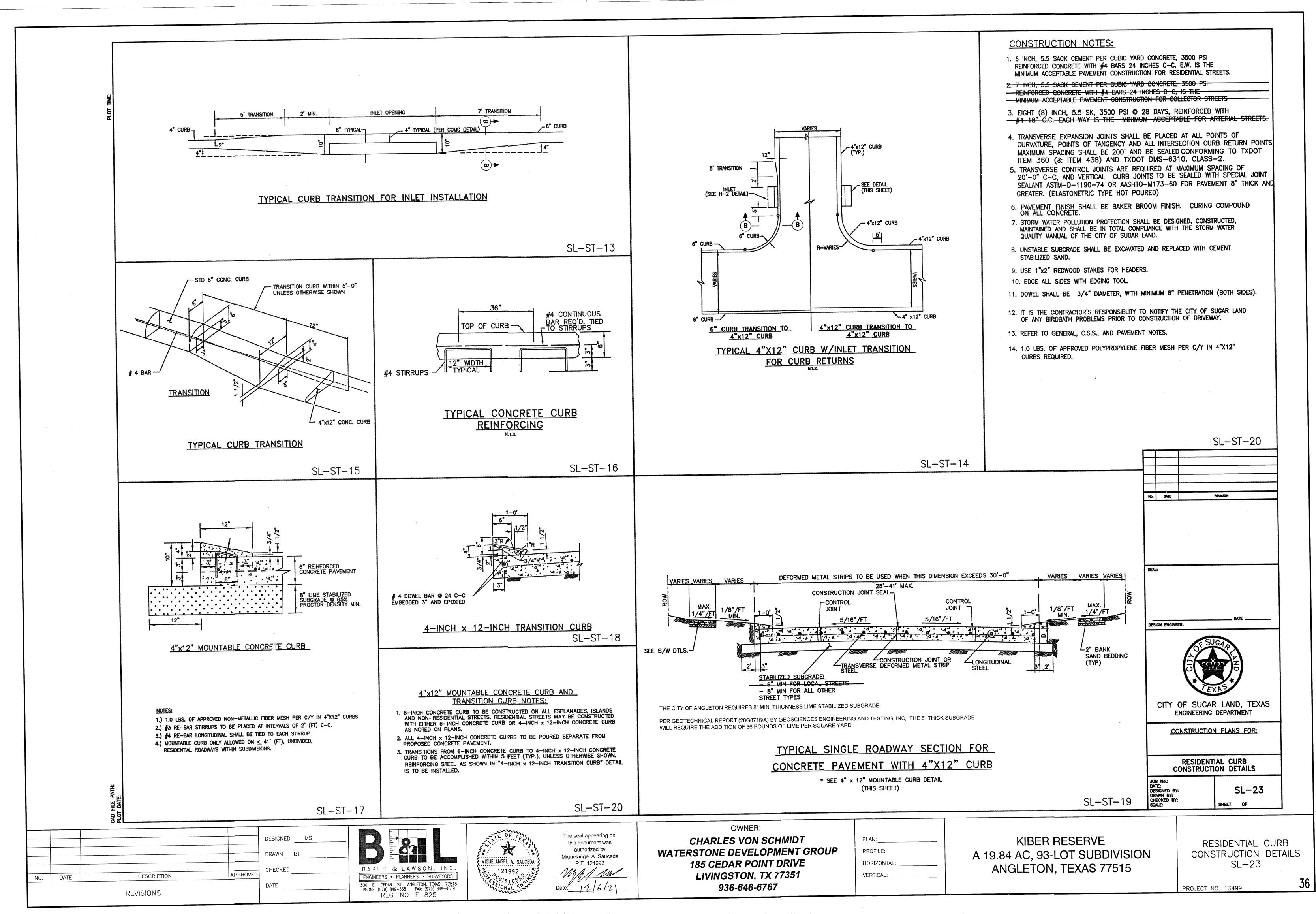
CONCRETE PAVEMENT CONSTRUCTION DETAILS SL-22

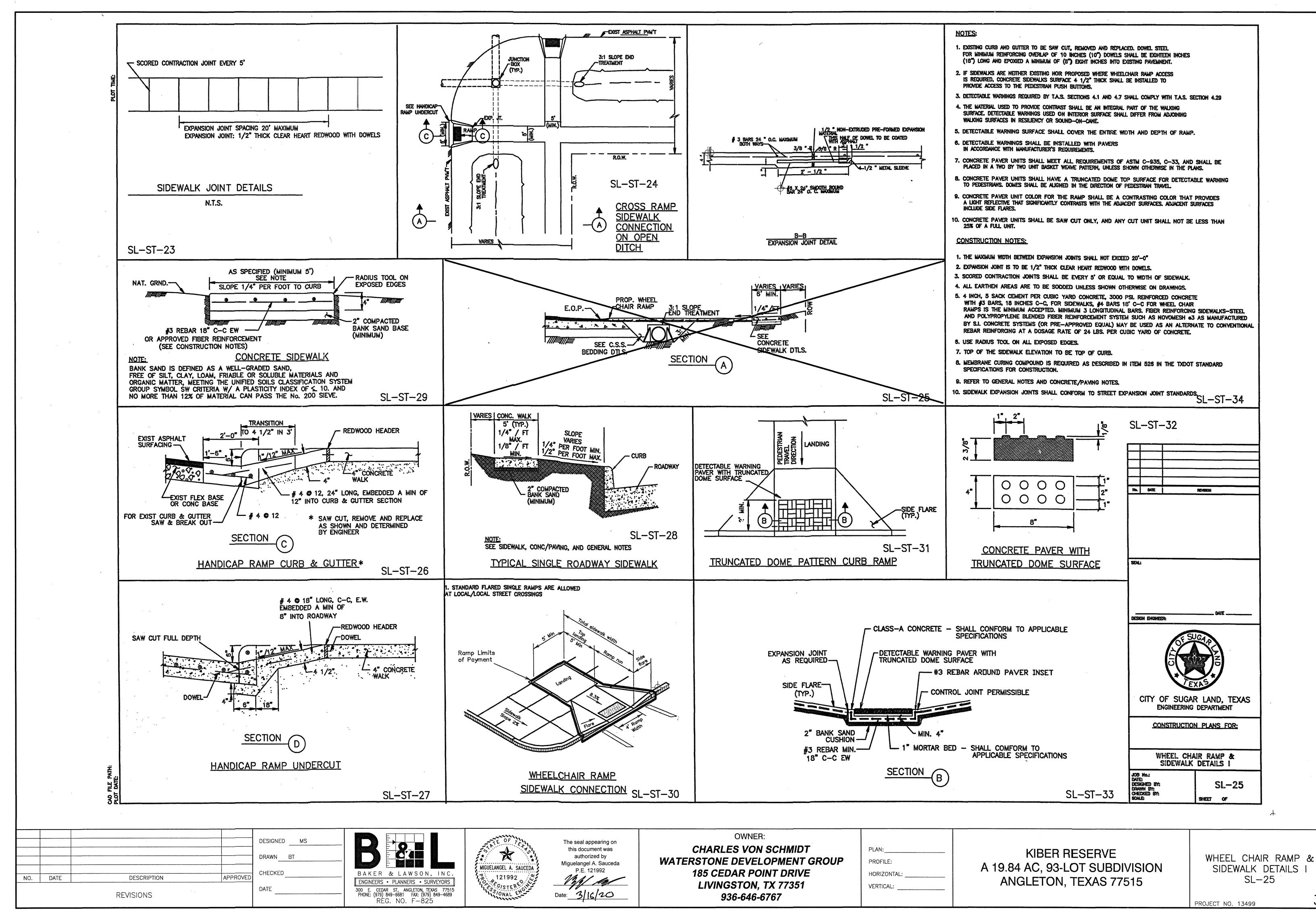
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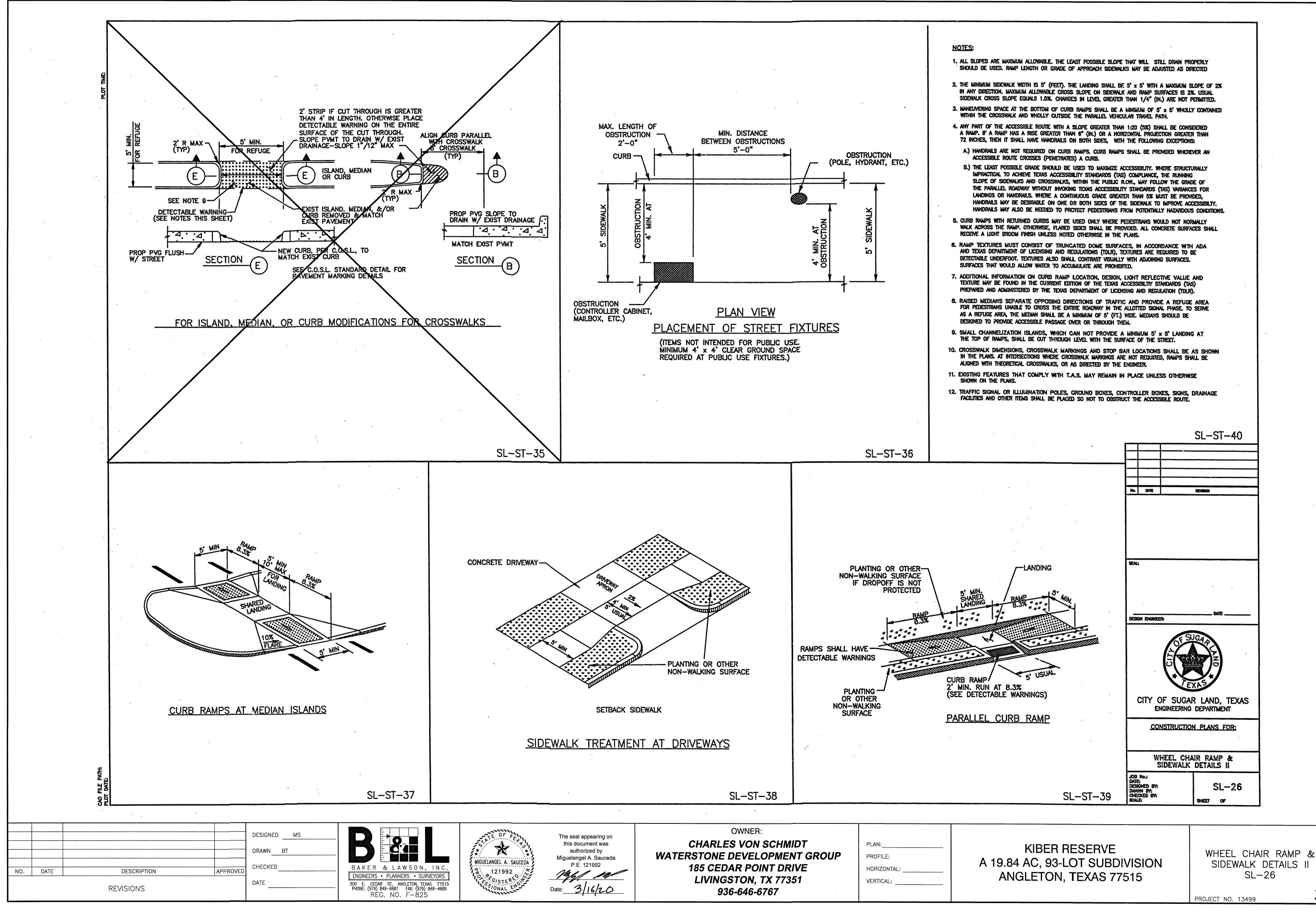
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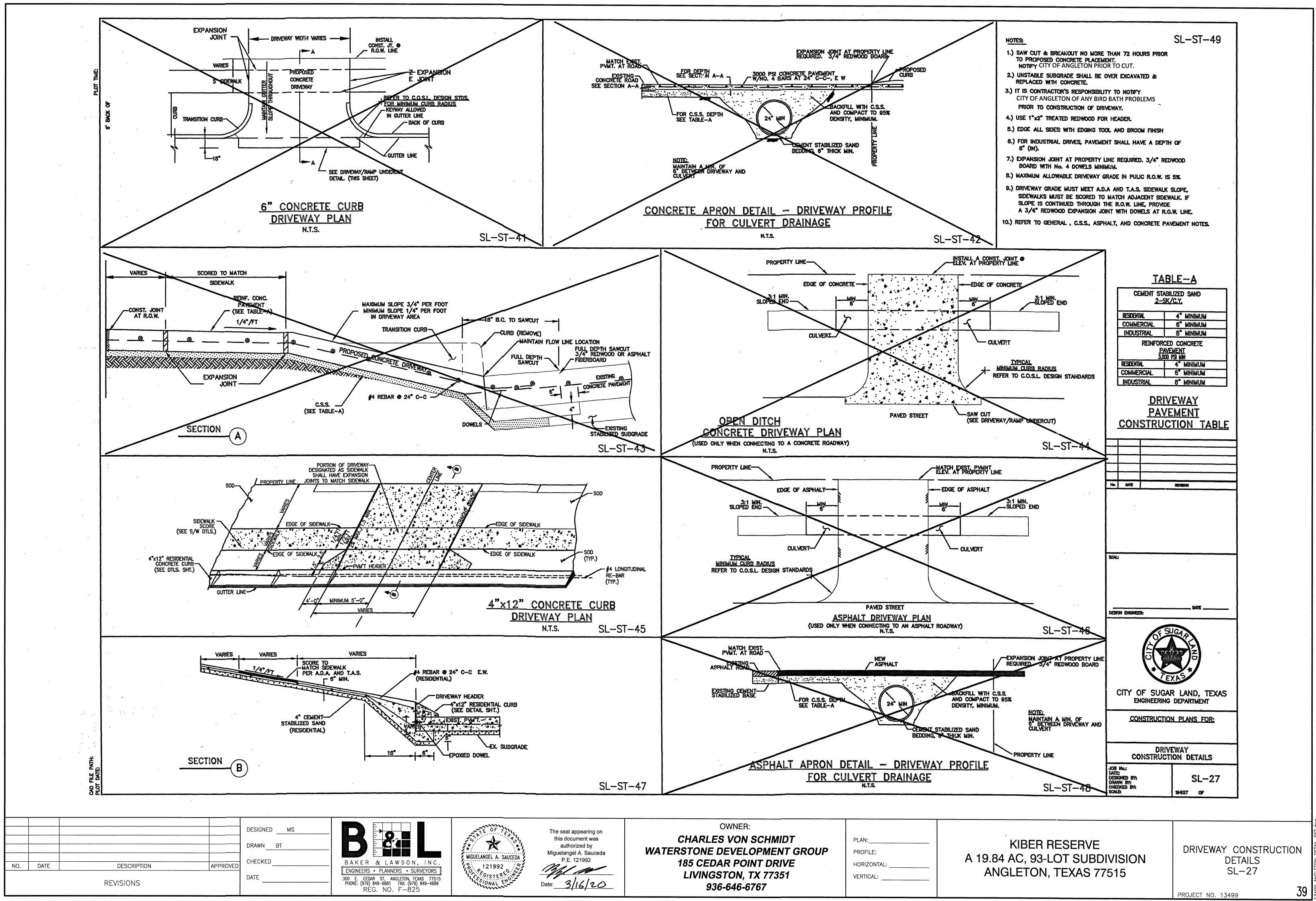
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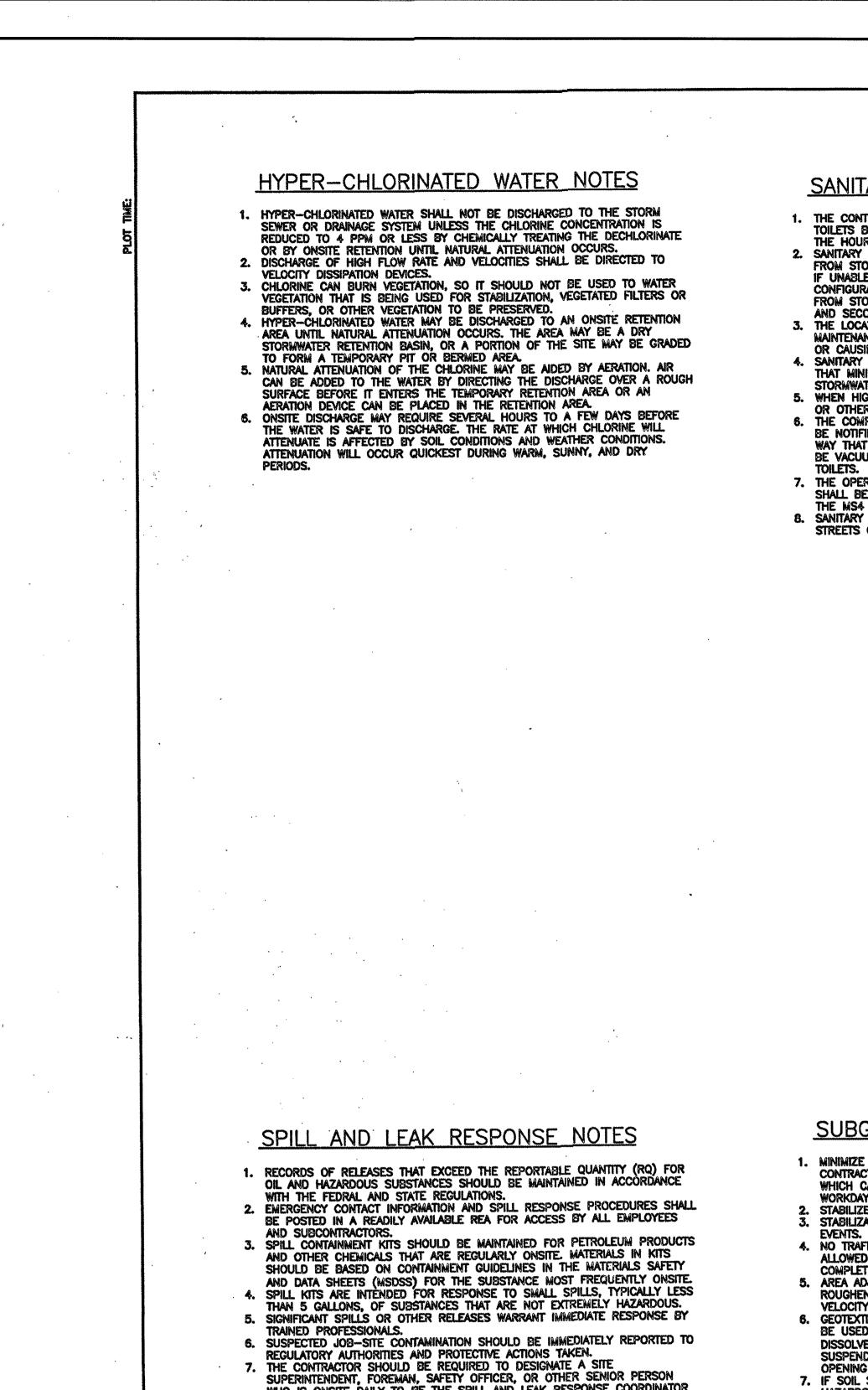








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9.84 AC, 93-LOT SUBDIVISION	DETAILS
ANGLETON, TEXAS 77515	SL-27



SUPERINTENDENT,	FOREMAN, SAFETY AILY TO BE THE SP	OFFICER, OR	OTHER SEN	IOR PERSON
(SLRC) AND MUST	HAVE KNOWLEDGE	OF AND BE	TRAINED IN	CORRECT SPIL
AND LEAK RESPON	NSE PROCEDURES.			

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 BAKER & LAWSON, INC. ENGINEERS • PLANNERS • SURVEYORS
 300 E. CEDAR ST, ANGLETON, TEXAS 77515 PHONE: (979) 849–6681 FAX: (979) 849–4689 REG. NO. F—825

### SANITARY WASTE\_NOTES

- 1. THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE NUMBER OF PORTABLE TOILETS BASED ON THE NUMBER OF EMPLOYEES USING THE TOILETS AND THE HOURS THEY WILL WORK.
- 2. SANITARY FACILITIES SHALL BE PLACED ON A MINIMUM OF 50 FEET AWAY FROM STORM DRAIN INLETS, CONVEYANCE, CHANNELS OR SURFACE WATERS. IF UNABLE TO MEET THE 50 FOOT REQUIREMENT DUE TO SITE CONFIGURATION, PORTABLE TOILETS SHALL BE A MINIMUM OF 20 FEET AWAY FROM STORM DRAIN INLETS, CONVEYANCE CHANNELS OR SURFACE WATER AND SECONDARY CONTAINMENT SHALL BE PROVIDE IN CASE OF SPILLS.
- THE LOCATION OF THE PORTABLE TOILETS SHALL, BE ACCESSIBLE TO MAINTENANCE TRUCKS WITHOUT DAMAGING EROSION AND SEDIMENT CONTROLS OR CAUSING EROSION OR TRACKING PROBLEMS.
   SANITARY FACILITIES SHALL BE FULLY ENCLOSED AND DESIGNED IN A MANNER
- THAT MINIMIZES THE EXPOSURE OF SANITARY WASTE TO PRECIPITATION AND STORMWATER RUNOFF. 5. WHEN HIGH WINDS ARE EXPECTED, PORTABLE TOILETS SHALL BE ANCHORED OR OTHERWISE SECURED TO PREVENT THEM FROM BEING BLOWN OVER.
- OR OTHERWISE SECURED TO PREVENT THEM FROM BEING BLOWN OVER. 6. THE COMPANY THAT SUPPLIES AND MAINTAINS THE PORTABLE TOILETS SHALL BE NOTIFIED IMMEDIATELY IF A TOILET IS TIPPED OVER OR DAMAGED IN A WAY THAT THE RESULTS IN A DISCHARGE. DISCHARGED SOLID MATTER SHALL BE VACUUMED INTO A SEPTIC TRUCK BY THE COMPANY THAT MAINTAINS THE TOILETS.
- THE OPERATOR OF THE MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) SHALL BE NOTIFIED IF A DISCHARGE FROM THE PORTABLE TOILETS ENTERS THE MS4 OR A NATURAL CHANNEL.
   SANITARY FACILITIES SHALL NOT BE PERMITTED ON PUBLIC SIDEWALKS, STREETS OR INLETS.

### DEBRIS AND TRASH NOTES

- ALL WASTE SOURCES AND STORAGE AREAS SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS AND OTHER WATERS, IF THE SITE CONFIGURATION PROVIDES SUFFICIENT SPACE TO DO SO. IN NO CASE SHALL MATERIAL AND WASTE SOURCES BE CLOSER THAN 20 FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS, AND OTHER WATERS.
   CONSTRUCTION WASTE AND TRASH SHALL BE STORED IN A MANNER THAT
- MINIMIZES ITS EXPOSURE TO PRECIPITATION AND STORMWATER RUNOFF. 3. WHENEVER POSSIBLE, MINIMIZE PRODUCTION OF DEBRIS AND TRASH.
- 4.' INSTRUCT CONSTRUCTION WORKERS IN PROPER DEBRIS AND TRASH STORAGE AND HANDLING PROCEDURES.
  5. SEGREGATE POTENTIAL HAZARDOUS WASTE FROM NON-HAZARDOUS
- CONSTRUCTION SITE DEBRIS.
- 6. PROHIBIT LITTERING BY WORKERS AND VISITORS. 7. POLICE SITE DAILY FOR LITTER AND DEBRIS.
- 8. ENFORCE SOLID WASTE HANDLING AND STORAGE PROCEDURES. 9. IF FEASIBLE, RECYCLE CONSTRUCTION AND DEMOLITION DEBRIS SUCH AS
- WOOD, METAL, AND CONCRETE. 10. TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE AT REGULAR INTERVALS THAT ARE SCHEDULED TO EMPTY CONTAINERS WHEN THEY ARE 90 PERCENT FULL OR MORE FREQUENTLY.
- 11. GENERAL CONSTRUCTION DEBRIS MAY BE HAULED TO A LICENSED
- CONSTRUCTION DEBRIS LANDFILL. 12. USE WASTE AND RECYCLING HAULERS/FACILITIES APPROVED BY THE LOCAL
- MUNICIPALITY. 13. CHIPPING OF TREES AND BRUSH FOR USE SUCH AS MULCH IS PREFERRED
- ALTERNATIVE TO OFFSITE DISPOSAL. 14. NO WASTE, TRASH, OR DEBRIS SHALL BE BURIED, BURNED OR OTHER WISE
- DISPOSED OF ONSITE. 15. CLEARLY MARK ON ALL DEBRIS AND TRASH CONTAINERS WHICH MATERIALS
- ARE ACCEPTABLE. FOREMAN AND/OR CONSTRUCTION SUPERVISOR SHALL MONITOR ONSITE SOLID WASTE STORAGE AND DISPOSAL PROCEDURES DAILY.

## SUBGRADE STABILIZATION NOTES

- 1. MINIMIZE THE DISCHARGE OF THE CHEMICAL STABILIZERS BY THE CONTRACTOR LIMITING THE AMOUNT OF STABILIZING AGENT ONSITE TO THAT WHICH CAN BE THOROUGHLY MIXED AND COMPACTED BY THE END OF EACH WORKDAY.
- 2. STABILIZERS SHALL BE APPLIED AT RATES THAT RESULT IN NO RUN OFF. 3. STABILIZATION SHALL NOT OCCUR IMMEDIATELY BEFORE AND DURING RAINFALL EVENTS.
- 4. NO TRAFFIC OTHER THAN WATER TRUCKS AND MIXING EQUIPMENT SHALL BE ALLOWED TO PASS OVER THE AREA BEING STABILIZED UNTIL AFTER COMPLETION OF MIXING THE CHEMICAL.
- 5. AREA ADJACENT AND DOWNSTREAM OF STABILIZED AREAS SHALL BE ROUGHENED TO INTERCEPT CHEMICAL RUNOFF AND REDUCE RUNOFF
- 6. GEOTEXTILE FABRICS SUCH AS THOSE USED FOR SILT FENCE SHOULD NOT BE USED TO TREAT CHEMICAL RUNOFF, BECAUSE THE CHEMICALS ARE DISSOLVED IN THE WATER AND WON'T BE AFFECTED BY A BARRIER AND THE SUSPENDED SOLIDS ARE SIGNIFICANTLY SMALLER THAN THE APPARENT OPENING SIZE OF THE FABRIC.
- 7. IF SOIL STABILIZERS ARE STORED ONSITE, THEY SHALL BE CONSIDERED HAZARDOUS MATERIAL AND SHALL BE MANAGED ACCORDING TO THE CRITERIA OF CHEMICAL MANAGEMENT TO CAPTURE ANY ACCIDENTAL LIME OR CHEMICAL OVERFLOW.
- 8. THE CONTRACRTOR SHALL INSTALL BMP'S TO ALL INLETS AND OPENINGS CONNECTED TO THE STORM SEWER SYSTEMS TO PREVENT LIME FROM ENTERING THE MS4 SYSTEM.

## SANDBLASTING WASTE NOTES

- 1. THE CONTRACTOR SHOULD BE REQUIRED TO DESIGNATE THE SITE SUPERINTENDENT, FOREMAN, OR OTHER PERSON WHO IS RESPONSIBLE FOR SANDBLASTING TO ALSO BE RESPONSIBLE FOR SANDBLASTING WASTE MANAGEMENT.
- PROHIBIT THE DISCHARGE OF SANDBLASTING WASTE. USE ONLY INERT, NON-DEGRADABLE SANDBLAST MEDIA.
- USE APPROPRIATE EQUIPMENT FOR THE JOB: DO NOT OVER-BLAST.
- 5. WHENEVER POSSIBLE, BLAST IN A DOWNWARD DIRECTION. 6. CEASE BLASTING ACTIVITIES IN HIGH WINDS OR IF WIND DIRECTION COULD TRANSPORT CRIT TO DRAINAGE FACILITIES.
- TRANSPORT GRIT TO DRAINAGE FACILITIES. 7. INSTALL DUST SHIELDING AROUND SANDBLASTING AREAS.
- 8. COLLECT AND DISPOSE OF ALL SPENT SANDBLAST GRIT, USE DUST CONTAINMENT FABRICS AND DUST COLLECTION HOPPERS AND BARRELS.
- 9. NON-HAZARDOUS SANDBLAST GRIT MAY BE DISPOSED IN PERMITTED
- CONSTRUCTION DEBRIS LANDFILLS OR PERMITTED SANITARY LANDFILLS. 10. IF SANDBLAST MEDIA CANNOT BE FULLY CONTAINED, CONSTRUCT SEDIMENT
- TRAPS DOWNSTREAM FROM BLASTING AREA WHERE APPROPRIATE. 11. USE SAND FENCING WHERE APPRORIATE IN AREAS WHERE BLAST MEDIA
- CANNOT BE FULLY CONTAINED. 12. IF NECESSARY, INSTALL MISTING EQUIPMENT TO REMOVE SANDBLAST GRIT FROM THE AIR PREVENT RUNOFF FROM MISTING OPERATIONS FROM ENTERING
- DRAINAGE SYSTEMS. 13. USE VACUUM GRIT COLLECTION SYSTEMS WHERE POSSIBLE.
- 14. KEEP RECORDS OF SANDBLASTING WATERIALS, PROCEDURES, AND WEATHER
- CONDITIONS ON A DAILY BASIS. 15. TAKE ALL REASONABLE PRECAUTIONS TO ENSURE THAT SANDBLASTING GRIT IS
- CONTAINED AND KEPT AWAY FROM DRAINAGE STRUCTURES. 16. SAND BLASTING MEDIA SHOULD ALWAYS BE STORED UNDER COVER AWAY
- FROM DRAINAGE STRUCTURES. 17. ENSURE THAT STORED MEDIA OR GRIT IS NOT SUBJECTED TO TRANSPORT BY
- WIND. 18. ENSURE THAT ALL SANDBLASTING EQUIPMENT AND STORAGE CONTAINERS
- COMPLY WITH CURRENT LOCAL, STATE, AND FEDERAL REGULATIONS. 19. CAPTURE AND TREAT RUNOFF, WHICH COMES INTO CONTACT WITH
- SANDBLASTING MATERIALS OR WASTE.

MIGUELANGEL A. SAUCEDA S. S. C. STERED S. S. ONAL ENGLANSE	The seal appearing on this document was authorized by Miguelangel A. Sauceda P.E. 121992 Date: 3/16/20	OWNER: CHARLES VON SCHMIDT WATERSTONE DEVELOPMENT GROUP 185 CEDAR POINT DRIVE LIVINGSTON, TX 77351 936-646-6767	PLAN: PROFILE: HORIZONTAL: VERTICAL:

<u>CONCRETE</u>	SAWCUTTING	WASTE NOTES	2

1. DURING SAWCUTTING OPERATIONS, THE SLURRY AND CUTTINGS SHALL BE CONTINUOUSLY VACUUMED OR OTHERWISE RECOVERED AND NOT BE ALLOWED TO DISCHARGE FROM THE SITE.

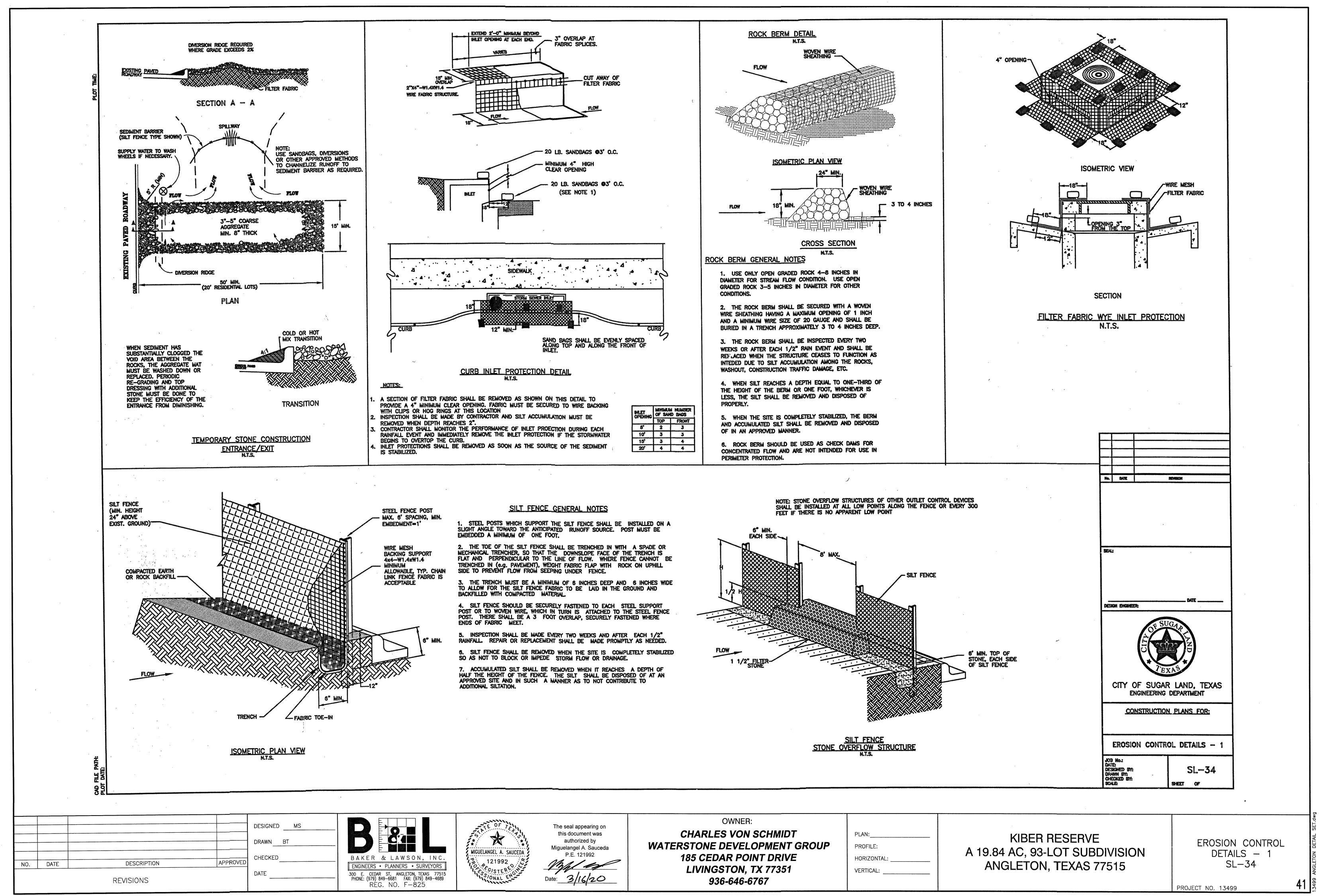
- 2. IF THE PAVEMENT TO BE CUT IS NEAR A STORM DRAIN INLET, THE INLET SHALL BE BLOCKED BY SANDBAGS OR EQUIVALENT TEMPORARY MEASURES TO PREVENT THE SLURRY FROM ENTERING THE INLET. REMOVE THE SANDBAGS IMMEDIATELY AFTER COMPLETING SAWCUTTING OPERATIONS, SO THEY DO NOT CAUSE DRAINAGE PROBLEMS DURING STORM EVENTS.
- SLURRY AND CUTTINGS SHALL NOT BE ALLOWED TO REMAIN ON THE PAVEMENT TO DRY OUT
   DEVELOP PRE-DETERMINED, SAFE SLURRY DISPOSAL AREAS.
- DEVELOP FRE-DETERMINED, SAFE SLORRY DISPOSAL AREAS.
   COLLECTED SLURRY AND CUTTINGS SHOULD BE IMMEDIATELY HAULED FROM THE SITE FOR DISPOSAL AT A WASTE FACILITY. IF THIS IS NOT POSSIBLE, THE SLURRY AND CUTTINGS SHALL BE DISCHARGED INTO ONSITE CONTAINMENT.
- 6. THE ONSITE CONTAINMENT MAY BE EXCAVATED OR BERMED PIT LINED WITH PLASTIC MINIMUM OF 10 MILIMETERS THICK. IF THE PROJECT INCLUDES PLACEMENT OF NEW CONCRETE, SLURRY FROM SAWCUTTING MAY BE DISPOSED OF IN FACILITIES DESIGNATED FOR THE WASHOUT OF CONCRETE TRUCKS INSTEAD CONSTRUCTING A SEPARATE CONTAINMENT.
- TRUCKS INSTEAD CONSTRUCTING A SEPARATE CONTAINMENT. 7. THE CONTAINMENT SHALL BE LOCATED A MINIMUM OF 50 FEET AWAY FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS, AND OTHER WATERS, IF THE SITE CONFIGURATION PROVIDES SUFFICIENT SPACE TO DO SO. IN NO CASE SHALL THE COLLECTION AREA BE CLOSER THAN 20 FEET FROM INLETS, SWALES, DRAINAGE WAYS, CHANNELS, AND OTHER WATERS
- SWALES, DRAINAGE WAYS, CHANNELS AND OTHER WATERS. 8. SEVERAL, PORTABLE, PRE-FABRICATED, CONCRETE WASHOUT, COLLECTION BASINS ARE COMMERCIALLY AVAILABLE AND ARE AN ACCEPTABLE ALTERNATIVE TO AN ONSITE CONTAINMENT PIT.
- 9. REMOVE WASTER CONCRETE WHEN THE CONTAINMENT IS HALF FULL. ALWAYS MAINTAIN A MINIMUM OF ONE FOOT FREEBOARD. 10. ONSITE EVAPORATION OF SLURRY WATER AND RECYCLING OF THE CONCRETE
- WASTE EVAPORATION OF SLURRY WATER AND RECYCLING OF THE CONCRETE WASTE IS THE PREFERRED DISPOSAL METHOD. WHEN THIS IS NOT FEASIBLE, DISCHARGE FROM THE COLLECTION AREA SHALL ONLY BE ALLOWED IF A PASSIVE TREATMENT SYSTEM IS USED TO REMOVE THE FINES. MECHANICAL MIXING IS REQUIRED IN THE COLLECTION AREA. THE PH MUST BE TESTED, AND DISCHARGED IS ALLOWED IN IF THE PH DOES NOT EXCEED 8.0. THE PH MAY BE LOWERED BY ADDING SULFURIC ACID TO THE SLURRY WATER.
- CARE SHALL BE EXERCISED WHEN TREATING THE SLURRY WATER FOR DISCHARGE. MONITORING MUST BE IMPLEMENTED TO VERIFY THAT DISCHARGES FROM THE COLLECTION AREA DO NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
   GEOTEXTILE FABRICS SUCH AS THOSE USED FOR SILT FENCE SHOULD NOT
- BE USED TO CONTROL SAWCUTTING WASTE, SINCE THE GRAIN SIZE IS SIGNIFICANTLY SMALLER THAN THE APPARENT OPENING SIZE OF THE FABRIC.

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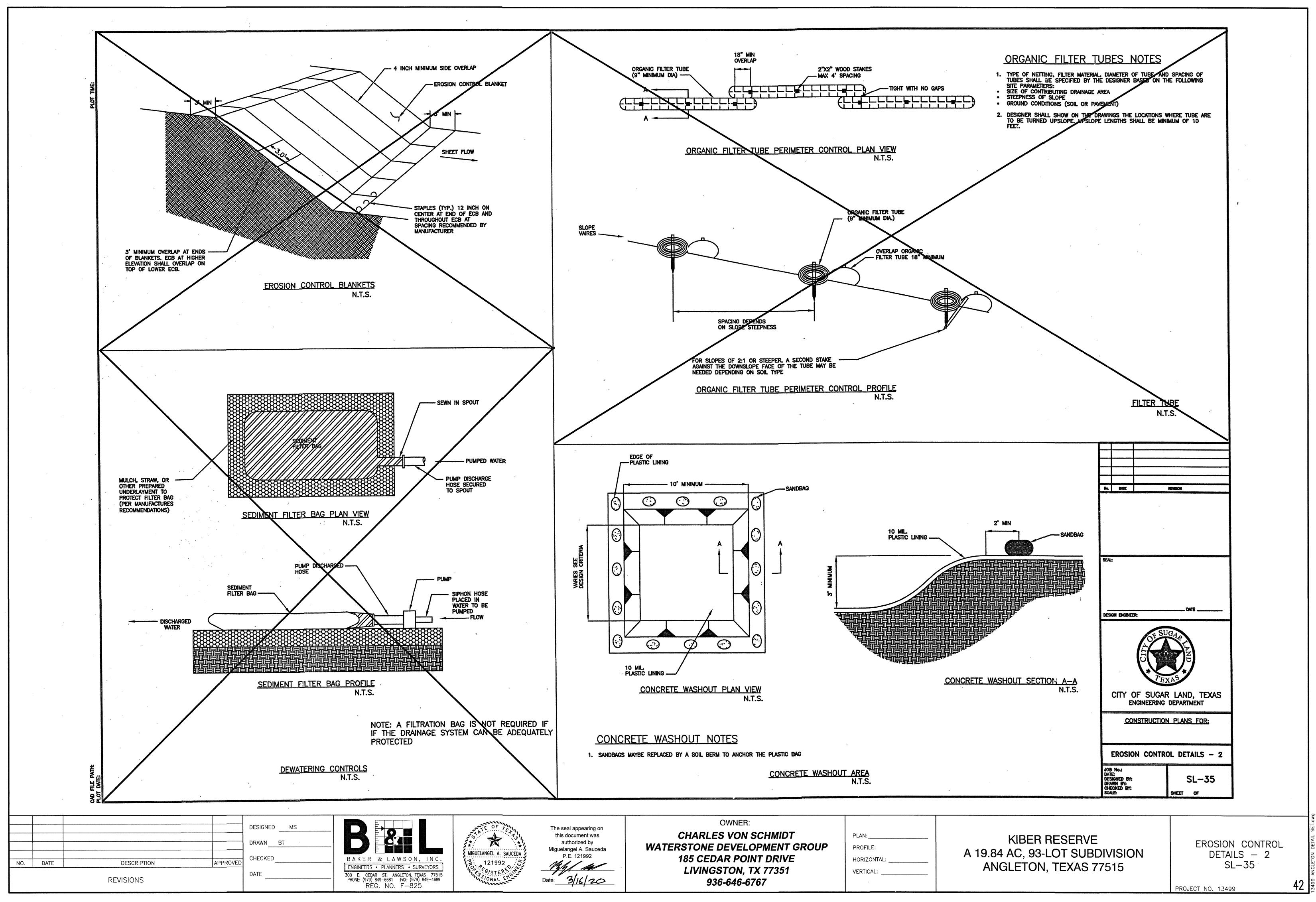
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GENERAL EROSION
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The seal appearing on this document was authorized by Miguelangel A. Sauceda P.E. 121992 Date: 3/16/20	OWNER: CHARLES VON SCHMIDT WATERSTONE DEVELOPMENT GROUP 185 CEDAR POINT DRIVE LIVINGSTON, TX 77351 936-646-6767	PLAN: PROFILE: HORIZONTAL: VERTICAL:	KIBER RESERVE A 19.84 AC, 93-LOT SUBDIVISION ANGLETON, TEXAS 77515
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