

City of Lucas Planning and Zoning Agenda Request November 10, 2022

Requester: Development Services Director Joe Hilbourn

Agenda Item Request

Consider a request by Preston Walhood, on behalf of Young Dean Homestead, Ltd., for a preliminary plat for Dean Estates on a parcel of land consisting of 44.185 acres, located in the John McKinney Survey, Abstract Number 596, creating 27 single-family lots and two common spaces on the east side of Stinson Road, approximately 55 feet south of the roundabout.

Background Information

This parcel of land is zoned R-1 and complies with the City's Comprehensive Plan. It is 44.185 acres, and the applicant is proposing 27 single-family lots and two common spaces. The civil construction plans were approved by the engineering department on November 1, 2022. Dean Estates is proposing a dead-end street that exceeds 600' and has greater than ten lots. Dean Estates is proposing a split entrance to allow for a second means of ingress/egress that is separated, a looped water main into Enchanted Creek Estates Phase 2, and an enlarged cul-de-sac turnaround in accordance with the requirements in 10.03.123 Streets and Drainage under section (a) Streets:

- (5) Where streets within the proposed subdivision are dictated by lot design to be cul-de-sacs, such cul-de-sac streets shall be provided with a permanent cul-de-sac having a minimum right-of-way radius of sixty feet (60') and shall not exceed six hundred feet (600') in length except in circumstances dictated by topography and existing development. Future streets that may offer a second point of access shall not be considered when measuring the length of cul-de-sac until the street is actually constructed. In situations where cul-de-sacs exceed the prescribed length by more than five percent (5%), a combination of the following based on the number of lots and dwelling units will be considered as a mitigating measure:
 - (A) A secondary emergency entrance/exit;
 - (B) Widening of the street and enlarging the cul-de-sac turnaround;
 - (C) Addition of fire hydrants; and
 - (D) Looped water system.

Attachments/Supporting Documentation

- 1. Preliminary plat
- 2. Location Map
- 3. Application
- 4. Construction plans
- 5. Tree Survey

Budget/Financial Impact



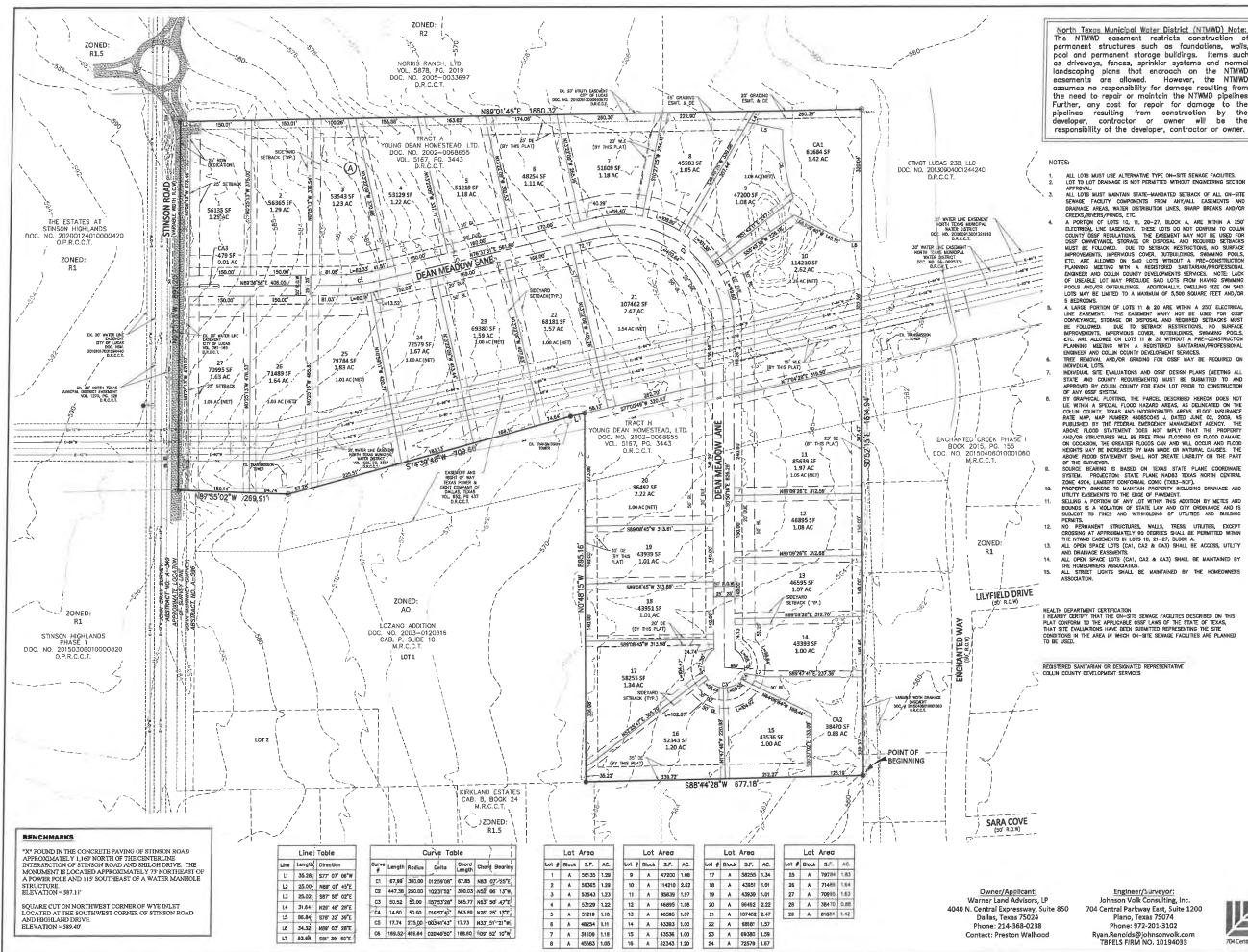
City of Lucas Planning and Zoning Agenda Request November 10, 2022

Recommendation

Staff recommends approval of the preliminary plat as presented.

Motion

I make a motion to recommend to the City Council to approve/deny a request by Preston Walhood, on behalf of Young Dean Homestead, Ltd., for a preliminary plat for Dean Estates on a parcel of land consisting of 44.185 acres, located in the John McKinney Survey, Abstract Number 596, creating 27 single-family lots and two common spaces on the east side of Stinson Road, approximately 55 feet south of the roundabout.



North Texas Municipal Water District (NTMWD) Note: The NTMWD easement restricts construction of permanent structures such as foundations, walls, permanent structures such as foundations, wolls, pool and permanent storage buildings. Items such as driveways, fences, sprinkler systems and normal landscoping plans that encroach on the NTMWD easements are allowed. However, the NTMWD assumes no responsibility for damage resulting from the need to repair or maintain the NTMWD pipelines for the program of the state for the state of the the Further, any cost for repair for damage to the pipelines resulting from construction by the pipelines resulting from construction by the developer, contractor or owner will be the responsibility of the developer, contractor or owner.

ALL LOTS MUST USE ALTERNATIVE TYPE ON-SITE SEWAGE FACILITIES. LOT TO LOT DRAINAGE IS NOT PERMITTED WITHOUT ENGINEERING SECTION

LOI TO LOI DRAIMAGE IS NOI PERMILED WITHOUT ENWIREENING SECTION APPROVAL ALL LOIS MUST MAINTAIN STATE-MAINDATED SETBACK OF ALL ON-SITE SEMAGE FACULTY COMPONENTS FROM ANT/ALL EASEMILTS AND DRAIMAGE AREAS, WATER DISTRIBUTION LINES, SHARP BREAKS AND/OR CREEKS/RWIREF/DONDS, TC.

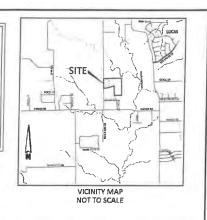
CREDICS, RAVERS, POINDS, ETC. A PORTINO FOLDTS 10, 11, 20–27, BLOCK A, ARE WITHIN A 250' DECTINGAL LINE EASSNOTT. THESE LOTS DO NOT COMINITIN TO COLLIN COUNTY DOSF REGULATIONS. THE EASSNOTT MAY NOT BE USED FOR DSSF DOWNEYNINGE STORAGE OF DISFORM. MON REGULIRED STERACES MUST BE FOLLINGED. DUE TO SETERICA RESTRUCTIONS, NO SUFFACE INFROMMENTS, INFERIOUS COVER, OUTBILLIONSS, SWIMING POOLS, ETC. ARE ALLONED ON SAUD LOTS WITHOUT A PRE-CONSTRUCTION PLANNING MEETING WITH A REGISTRED SANITARIA/PROFESSIONAL PLANNING MEETING WITH A REGISTRED SANITARIA/PROFESSIONAL POOLS MAD TO CULIN COUNTY DEVELOPMENTS SERVICES. DO SAND POOLS MAD TO CULIN COUNTY DEVELOPMENTS SERVICES. POOLS AND /OR OUTBUILDINGS. ADDITIONALLY, DWELLING SIZE ON SAID LOTS MAY BE LIMITED TO A MAXIMUM OF 5,500 SQUARE FEET AND/OF

S BEDROMS. A LARGE PORTION OF LOTS 11 & 20 ARE WITHIN A 250' ELECTRICAL LINE FASSIMENT. THE EASEMENT MANY NOT BE USED FOR OSSF CONVEYANCE, STORAGE OR DISPOSAL AND REQUIRED SCIPACRSS MUST BE FOLLOWED. DUE TO SETBACK RESTRICTIONS, NO SURFACE INPROVEMENTS, IMPERVOUS COVER, OUTBUILDINGS, SWIMAING FOOLS, ETC. ARE ALLOWED ON LOTS IN & 20 WITHOUT A PRE-CONSTRUCTION PLANNING MEETING WITH A REOSTBED SANTARIAN/PROFESSIONAL ENGINEER AND COLLIN COUNTY DEVELOPMENT ESTINCES. TREE REMOVAL AND/OR GRADING FOR OSSF MAY BE REQUIRED ON INDIVIDUAL LOTS.

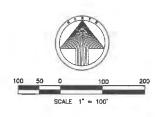
THEE REMUYAL AND/WALLAND CONTROL AND OSSF DESIGN PLANS (MEETING ALL INDIVIDUAL SITE EVALUATIONS AND OSSF DESIGN PLANS (MEETING ALL STATE AND COUNTY REQUIRIEMENTS) MUST BE SUBMITTED TO AND APPROVED BY COLLIN COUNTY FOR EACH LOT PRIOR TO CONSTRUCTION

OF ANY OSSE'SYSTEM. BY GRAPHICA, PLOTING, THE PARCEL DESCRIBED HEREON DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREAS, SLOOD INSURANCE COLLIN COLINY, TEXAS AND MORPORATED AREAS, FLOOD INSURANCE RATE MAP, MAP NUMBER 480850043 J, DATED JUNE 02, 2009, AS PUBLISHED BY THE FEDERAL BURGENCY MARCAELINT AGENCY. THE ABOVE FLOOD STATEMENT DOES NOT IMPLY THAT THE PROPERTY AND/OR STRUCTURES MILL BE FREE FROM FLOODING 08 FLOOD DAMAGE. ON OCCASION, THE GREATER FLOODS COM NOT NOT ADD DAMAGE. ON OCCASION, THE GREATER FLOODS COM NOT NOT ADD DAMAGES. THE SURVEYOR.

HEALTH DEPARTMENT CERTIFICATION I HEARY CERTIFY THAT THE ON-SITE SEWAGE FACILITES DESCRIBED ON THIS PLAT CONFORM TO THE APPLICABLE OSSF LAWS OF THE STATE OF TEXAS, THAT SITE EVALUATIONS HAVE BEEN SUBJUTTED REPRESENTING THE SITE CONDITIONS IN THE AREA IN WHICH ON-SITE SEWAGE FACILITIES ARE PLANNED TO BE USED.



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	LEGEND
· ·	Point of Curvature or Tangency on Center Line
•	1/2" iron rod w/ yellow plastic cap stamped "JVC" set (unless otherwise noted)
	1/2" iron rod found w/ yellow plastic cap stamped "JVC" (unless otherwise noted)
AC	Acre
BL	Building Line
C1	Curve No.
¢.	Center Line
<cm></cm>	Control Monument
DE	Drainage Easement
Esmt	Easement
L1	Line No.
C1	Curve No.
SF	Square Feet
UE	Utility Easement
WLE	Water Line Easement
U.T.E.	Utility & Telecommunications Easement
P.O.E.	Positive Overflow Easement
W.M.E.	Wall Mointenance Easement
	T. = Official Public Records of Collin County, Texas
D.R.C.C.T.	= Deed Records of Collin County, Texas



PURPOSE OF PLAT THE PURPOSE OF THIS PLAT IS TO CREATE 27 RESIDENTIAL LOTS FROM A 44.084 ACRE TRACT OF LAND

PRELIMINARY PLAT **DEAN FARMS AT STINSON HIGHLAND**

LOTS 1-27, CA1 & CA2, BLOCK A 27 SINGLE FAMILY LOTS & 2 COMMON SPACES 44.084 ACRES OUT OF THE JOHN MCKINNEY SURVEY, ABSTRACT NO. 596 CITY OF LUCAS COLLIN COUNTY, TEXAS EXIST. ZONING: R1

> September 27, 2022 SHEET 1 OF 2

Engineer/Surveyor: Johnson Volk Consulting, Inc. 704 Central Parkway East, Suite 1200 Plano, Texas 75074 Phone: 972-201-3102 Ryan.Renolds@iohnsonvolk.com TBPELS FIRM NO. 10194033



OWNER'S CERTIFICATION & DEDICATION:	SURVEYOR'S CERTIFICATE:	CERTIFICATE OF APPROVAL:
STATE OF TEXAS § COUNTY OF COLLIN §	NOW, THEREFORE KNOW ALL MEN BY THESE PRESENTS:	This plat is hereby approved by the Planning and Zoning Commission of the City of Lucas, Texa: This plat approved subject to all platting ordinances, rules, regulations and resolutions of the Cit
BEING a tract of land situated in the JOHN MCKINNEY SURVEY, ABSTRACT NO. 596, City of Lucas, Collin County, Texas and being all of those tracts of land described as Tract A and Tract H in Deed to Yaung Dean Homestead, Ltd., as recorded in Document No. 2002–0068655 (Volume 5167, Page 3443), Deed Records, Collin County, Texas and being more particularly described as follows:	THAT I, Ryan S. Reynolds, do hereby certify, that I prepared this plat from an actual on the ground survey of the land as described and that the corner monuments shown thereon were properly placed under my personal supervision in accordance with the Platting Rules and Regulations of the City of Lucas Planning and Zoning Commission.	Dusty Kuykendall Date Chair, Planning and Zoning Commission
BEGINNING at a 1/2 inch iron rod faund in the west line of ENCHANTED CREEK PHASE 1, an Addition to the City of Lucas, Collin County, Texas according to the Plat thereof recorded in Book 2015, Page 155 (Document No. 20150406010001060), Map Records, Collin County, Texas for the common southeast corner of sald Tract H and northeast corner of KIRKLAND ESTATES, an Addition to the City of Lucas, Collin County, Texas according to the Plat thereof recorded in Cobinet 8, Book 24, Map Records, Collin County, Texas;	PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT.	ATTEST: Signature Date
THENCE South 88 degrees 44 minutes 28 seconds West, leaving said west line and with the common south line of said Tract H and north line of said KIRKLAND ESTATES Addition, a distance of 677.18 feet to a 1/2 inch iron rad found for the common southwest corner of said Tract H and southeast corner of Lot 2 of LOZANO ADDITION, an Addition to the City of Lucas, Collin County, Texas according to the Plat thereof recorded in Cabinet P, Slide 10 (Document No. 2003-0120316), Map Records, Collin County, Texas;	RYAN S. REYNOLDS, R.P.L.S. Texas Registered Professional Land Surveyor No. 6385.	Name & Title Date The Director of Public Works of the City of Lucas, Texas hereby certifies that to the besf of his, belief, this subdivision plat conforms to all requirements of the Code of Ordinances and with eng
THENCE North 00 degrees 48 minutes 15 seconds West, leaving said common line and with the common west line of said Tract H and east line of said Lot 2, a distance of 895.16 feet to a 1/2 inch iron rod found in the south line of said Tract A for the common northwest corner of said Tract H and northeast corner of said Lot 2;	STATE OF TEXAS § COUNTY OF COLLIN §	construction standards and processes adopted by the City of Lucas, Texas as to which his/her a required.
THENCE South 77 degrees 07 minutes 06 seconds West, leaving said common line and with the common south line of said Lot 2, a distance of 35.28 feet to a 1/2 inch iron rod found for corner;-	Before me, the undersigned authority, a Notary Public in and for the said County and State, on this	Scott Holden, PE Date
THENCE South 74 degrees 39 minutes 48 seconds West, continuing with said common line, a distance of 709.66 fest to a 1/2 inch iron rod with a yellow plastic cap stamped "JVC" set for corner;	day personally appeared	Director of Public Works The Development Services Director of the City of Lucas, Texas hereby certifies that to the best of
THENCE North 87 degrees 55 minutes 02 seconds West, continuing with said common line, a distance of 269.91 feet to an "X" set in concrete for the southwest comer of said Tract A;		knowledge or belief, this subdivision plat conforms to all requirements of the Code of Ordinances been amended or modified, as allowed, by the Planning and Zoning Commission as to which his/ required.
THENCE North 00 degrees 25 minutes 13 seconds West, leaving sold common line, a distance of 892.20 feet to a 1/2 inch iron rod with a yellow plastic cap stamped "UVC" set for the common northwest corner of sold Tract A and southwest corner of that tract of land described in deed to Norris Ranch, Ltd., as recorded in Volume 5878, page 2019 (Document No. 2005–0033697), Deed Records, Collin County, Texos;	Given under my hand and seal of office, this day of, 20,	Joseph Hilbourn Date
THENCE North 89 degrees 01 minutes 45 seconds East, a distance of 1,660.32 feet to a 1/2 inch iron rod with a red plastic cap stamped "KHA" found for the northeast corner of said Tract A;		Director of Development Services
THENCE South 00 degrees 52 minutes 15 seconds East, a distance of 1,614.94 feet to the POINT OF BEGINNING and containing 44.084 acres of land, more or less.	Notary public for and in the State of Texas	
NOW THEREFORE, KNOW ALL MEN BY THESE PRESENTS:	My commission expires:	
That WARNER LAND ADVISORS, LP., does hereby thid themselves and their heirs, assignees and successors of title this plot designating the hereinaboxe described property as DEAN FARMS AT STINSON HIGHLAND, an addition to the City of Lucas, and does hereby described property as DEAN FARMS AT STINSON HIGHLAND, an addition to the casements shown therean, and does hereby reserve the assement strips shown on this plot for the purposes stated and for the mutual use and accommodation of garbage collection agencies and all utilities desiring to use or using some. Any public utility shall have the right to remove and keep removed all or part of any buildings, fences, trees, shrubs, or other growths or improvements that in any way endanger or interfere with construction, maintenance or efficiency of its respective systems on any of these easement strips, and any public utility shall at all times have the right of ingress or egress to and from and upon the said easement strips for purpose of constructing, reconstructing, inspecting, patrolling, without the necessity of any time of procuring the permission of anyone. Additionally, WARNER LAND ADVISORS, L.P., certifies that it is the sole owner of the declated property and that no other's interest is attached to this property unless otherwise indicated on the required Mortgage Holder Certification that is included on this plot. Furthermore, as the owner of the property described herein, and in consideration of establishing the subdivision described herein, it agrees to the following:		
By: Stephen L. Saliman, Manager		
STATE OF TEXAS § COUNTY OF COLLIN §		
Before me, the undersigned authority, a Notary Public In and of the State of Texas, on this day personally appeared WARNER LAND ADVISORS, LP., known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and consideration therein stated.		G
Given under my hand and seal of office, this day of 20		
Notary public in and for the State of Texas My Commission Expires		

Owner/Applicant: Warner Land Advisors, LP Engineer/Surveyor: Johnson Volk Consulting, Inc. 4040 N. Central Expressway, Suite 850 Dallas, Texas 75024 704 Central Parkway East, Suite 1200 Plano, Texas 75074 Phone: 214-368-0238 Phone: 972-201-3102 Contact: Preston Walhood Ryan.Renolds@johnsonvolk.com TBPELS FIRM NO. 10194033

NOTES: 1. 2.

of Lucas, Texas.

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f his/her or as many have er approval

- ALL LOTS MUST USE ALTERNATIVE TYPE ON-SITE SEWAGE FACILITIES. LOT TO LOT DRAINAGE IS NOT PERMITTED WITHOUT ENGINEERING SECTION
- 3.
- ALL LOTS MUST USE ALTERNATIVE TYPE ON-SITE SEWAGE FACULTES. LOT TO LOT DRAINAGE IS NOT PERMITTED WITHOUT ENGINEERING SECTION APPROVAL. ALL LOTS MUST MAINTAIN STATE-MANDATED SETMACK OF ALL ON-SITE SEWAGE FACULTY COMPONENTS FROM ANY/ALL EASEMENTS AND DRAINAGE AREAS, WATER DISTRIBUTION LINES, SHARP, BEAKSS ANJ/OR CREEKS/RIVERS/POINDS, ETC. A FORTION OF LOTS 10, 11, 20-27, BLOCK A, ARE WITHIN A 250° LECTRICAL LINE EASEMENT. THESE LOTS DO NOT DE USED FOR OSSY CONVEYANCE, STORAGE OR DISPORAL AND RECOMPRED SEMANCES MUST BE FOLLOWED. DUE TO SETBACK RESTINCTIONS, NO SUPPACE IMPROVEMENTS, IMPERVOUS COVER, OTTENLIDINGS, SIMMAINO DOLS, ETC. ARE ALLOWED ON SAUL DITS WITHOUT A STORAGE OR DISPORAL AND RECOMPOSE THANKS MUST BE FOLLOWED. DUE TO SETBACK RESTINCTIONS, NO SUPPACE IMPROVEMENTS, IMPERVOUS COVER, OTTENLIDINGS, SIMMAINO DOLS, ETC. ARE ALLOWED ON SAUL DITS WITHOUT A FORTIALINE, SIMMAINO FOOLS, ETC. ARE ALLOWED ON SAUL DITS WITHOUT A STATARIAN/PROFESSIONAL AMENICIPAL. MEETING OUNT A RECOTEND SETBACK RESTINCTIONS, NO SUPPACE IMPROVEMENTS, IMPERVOUS COVER, ON SAUL DITS MAY BE CLIMETED TO A MAXIMUM OF SAUD CONT AND RECORDING SEMICAS. MOTE LAKE OF USED FOR OSS DOUNCE SAUD LOTS FROM HAVING SIMULING FOOLS AND/OR OUTBUILDINGS ADDITONALLY, DIRELING SEZ ON SAUL DITS MAY BE LIMITED TO A MAXIMUM OF SAUS COLVER, FIET AND/OR 5 EDEDODUS. A LAKES PORTION OF LOTS 11 & 20 SEC DECORDONALLY, DIRELING SEZ ON SAUD LOTS MAY BE LIMITED TO A MAXIMUM OF SOUDARLY, DIRELING SEZ ON SAUD LOTS MAY BE LIMITED TO A MAXIMUM OF SEVED FOR OSS'C CONVEYANCE. STORAGE ORISONAL AND RECURRED SEAD FOR OSS'C CONVEYANCE STORAGE ORISONAL AND RECURRED DEVELOPMENTS, IMPERVOUS OVER, OUTBUILDINGS, SUMMING POOLS, ETCL ARE LUMED ON LOTS 11 & 20 STATARIA/PROPESSIONAL DIREAD RESTRICTIONS, NO SUBFACE IMPROVEMENTS, IMPERVOUS OVER, OUTBUILDINGS, SUMMING POOLS, ETCL ARE LUMED ON LOTS 11 & 20 STATARIA/PROPESSIONAL DIREAD RESTRICTIONS, NO SUBFACE MARDOVEMENTS, IMPERVOUS OVER, OUTBUILDINGS, SUMMING POOLS, ETCL ARE LALLOWED ON LOTTY DEVELOPMENT SERVICES. 4.
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HEALTH DEPARTMENT CERTIFICATION I HEARBY CERTIFY THAT THE ON-STE SEWAGE FACILITIES DESCRIBED ON THIS PLAT COMFORM TO THE APPLICABLE OSS' LAWS OF THE STATE OF TEXAS, THAT STE EVALUATIONS HAVE BEEN SUBMITTED REPRESENTING THE SITE CONDITIONS IN THE AREA IN WHICH ON-STE SEWAGE FACILITIES ARE PLANNED TO BE USED.

REGISTERED SANITARIAN OR DESIGNATED REPRESENTATIVE

PURPOSE OF PLAT THE PURPOSE OF THIS PLAT IS TO CREATE 27 RESIDENTIAL LOTS FROM A 44.084 ACRE TRACT OF LAND

PRELIMINARY PLAT **DEAN FARMS AT** STINSON HIGHLAND

LOTS 1-27, CA1 & CA2, BLOCK A 27 SINGLE FAMILY LOTS & 2 COMMON SPACES 44.084 ACRES OUT OF THE JOHN MCKINNEY SURVEY, ABSTRACT NO. 596 CITY OF LUCAS COLLIN COUNTY, TEXAS EXIST. ZONING: R1

> September 27, 2022 SHEET 2 OF 2

JOHNSON VOLK CONSULTING TBPELS: Engineering Firm No. 11962 / Land Surveying Firm 704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972201.3100 ing Firm No. 1019409



LOCATION MAP: THE HOMESTEAD ZONING CHANGE

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Tear	3283	Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri
erbrook Dr	191	(Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



PLATTING APPLICATION

Name of Subdivision and/or Project: Dean Farms at Stinson Highlands

Ite	ems	Subn	nitted	Filing Fee
	p	relin	linary Plat	
-	- 21		ngle Family Residential Subdivision Development	
	1.5	0		
		0	\$750 + \$5 per acre with 20 acres or less (i.e. \$850 for 20 acres) excluding minor	
			plats of five (5) acres or less.	
		0	\$750 + \$5 per acre with 21 - 30 acres (i.e. \$900 for 30 acres)	
		X	\$800 + \$5 acre with 31 - 45 acres (i.e. \$1,025 for 45 acres) 44 acres	\$1,020
		0	\$900 + \$5 per acre with 46+ acres (i.e. \$1,130 for 46 acres)	2 (A122)
	18	Es	tate Residential Subdivision Development	_
		0	\$1,000 + \$7 per acre for all size parcels (i.e. \$1,140 for 20 acres)	
		M	inor Plats	
		0	\$500 + \$5 per acre with 5 acres or less (i.e. \$525 for 5 acres)	
	1.	No	on-residential District Plats	
		0	\$800 + \$10 per acre with 30 acres or less	
		õ	\$850 + \$10 per acre with $31 - 45$ acres	
		ò	\$950 + \$10 per acre with $46 + acres$	
	E	nal I		
-				
	- 0		igle Family Residential Subdivision Development	
		0	\$800 + \$5 per acre with 30 acres or less	
		0	\$850 + \$5 per acre with 31 – 45 acres	
		0	\$950 + \$5 per acre with 46+ acres	
			Any additional development fees will be charged at final plat rates.	
	•	Es	tate residential Subdivision Development	
		0	\$950 + \$7 per lot for all size parcels	
		Mi	nor Plat	
		0	\$350 + \$5 per acre with 5 acres or less	
		No	n-residential District Plats	
		o	\$850 + \$10 per acre for up to 30 acres	
		õ	\$900 + \$10 per acre with $31 - 45$ acres	
		0 Do	1,000 + 10 per acre with 46+ acres	
	12.		plat	
		0	Minor Plat (5 acres or less) \$450 + \$5 per acre (\$475 for 5 acres)	
		0	All others - \$600 + \$10 per acre	
		An	nended Plat	
		0	Minor Plats (5 acres or less) - \$300 + \$7 per acre (i.e. \$300 for an amended plat for 5	
			acres)	
		0	All others - \$500 + \$10 per acre (i.e. \$700 for an amended plat for 20 acres)	
	Ste	rm	Water Run-Off Permit	
		0	Developments 0 – 3 acres \$75	
		0	Developments 4 – 10 acres \$150	
		0	Developments 10+ acres \$500	
	Va		on of Plat	
-	1.6	0	\$500 + \$10 per acre	
	Co			
-	Co		t Plan (Optional Land Study)	
-	-	0	\$150 per session with Planning & Zoning and/or City Council	NUCES -
			rvey/Conservation Plan	No Fee
	Ir		emoval & Site Clearing Permit	
1	11	0	\$ 250	
	Pa	rk Si	te Dedication	
34		0	\$ 1,000 per lot or land dedication	** ***
TO	TA	L		\$1,020
PI A	TTD	IG AF	PLICATION	4
1.402		-u ar		



PLATTING APPLICATION

Physical Location of Property: East of Stinson Ro (Address and general location – approximate distance to nearest existi	oad, 100' south of Highland Drive
Legal Description of Property: JOHN MCKINNE	EY SURVEY, ABSTRACT NO. 596
(Survey/ Abstract Number and Tracts Platted Subdivision Name with L	ots/Block – Must attach metes and bounds description)
Comprehensive Zoning Designation(s): R1	
Existing Zoning Designation(s): R1	
Description of Project Use: Single Family Resid	ential Lots
Acreage: 44,084 acres	Existing # of Lots/Tracts: 1
OWNERS NAME: Young Dean Homestead,	Contract a function of the
Applicant/Contact Person Preston Walhood	Title: Vice President
Company Name Warner Land Advisors, LP	
Street Address 4040 N Central Expressway,	Suite 850 Dallas Texas 75204
Mailing Address	and the second
Phone: 214-368-0238 Fax:	Email: pwalhood@warnergroup.con
OWNERS NAME:	Contact Number:
Applicant/Contact Person	Title:
Company Name	
Street Address	
Mailing Address	
Phone: Fax:	Email:
ENGINEER REPRESENTATIVE: Johnson Volk	Consulting Contact Number:
Applicant/Contact Person Tom Dayton, PE	Title:
Company Name JohnsonVolk Consulting	
Street Address 704 Central Parkway East, Sui	ite 1200 Plano, Texas 75074
Mailing Address	
Phone: 972-201-3102 Fax:	Email: tom.dayton@johnsonvolk.com

Read before signing below: If there is more than one property owner complete a separate sheet with the same wording as below. The City requires all original signatures. If applicant is other than the property owner a "Power of Attorney" with original, notarized signatures are required. (notaries are available)

ITEMS REQUIRED PRIOR TO FINAL PLAT APPROVAL:

ALL APPLICATIONS MUST BE COMPLETE, ACCOMPANIED BY THE APPLICABLE CHECKLIST AND TAX CERTIFICATE SHOWING TAXES PAID BEFORE BEING SCHEDULED ON THE P&Z AGENDA. It is the applicant's responsibility to be familiar with, and to comply with, all City submittal requirements (in the Zoning & Subdivision Ordinances, and any separate submittal policies, requirements and/or checklists that may be required from City staff), including the number of plans to be submitted, application fees, etc. Please contact City staff in advance for submittal requirements. Drawings will not be returned to applicant.

ALL PARCELS/PROPERTIES MUST MATCH IN ACREAGE ALL OTHER DOCUMENTS SUBMITTED WITH NO AMBIGUITY.

SUBMISSIONS: Failure to submit all materials to the City with this application will result in delays scheduling the agenda date

NOTICE OF PUBLIC RECORDS: The submission of plans/drawings with this application makes such items public record, and the applicant understands that these items may be viewed by the public unless they are copyrighted.

PLATTING APPLICATION



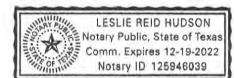
PLATTING APPLICATION

- Applicant agrees to pay any and all monies due to the City including but not limited to Park Site fee, Tree Removal
 Permit fee, 3% of Construction cost (developer to provide contracts for verification) and including but not limited to
 other fees that may be required prior to final plat approval.
- Maintenance Bond for City Improvements, 2 year 10% Bond to be verified by submitting contract
- Construction as-built record drawings (mylar)
- Engineering construction test reports.
- · Walk-through with Public Works personnel completed with satisfactory outcome.
- HOA (covenants, conditions & restrictions) documentation approved by City Attorney before submittal to Planning & Zoning.

By signing this application, staff is granted access to your property to perform work related to your case. I waive the statutory time limits in accordance with Texas Local Government Code, Section 212.

STATE OF TEXAS (COUNTY OF COLLIN)

BEFORE ME, a Notary Public, on this day personally appeared **WALLOW** the undersigned applicant, who, under oath, stated the following: "I hereby certify that I am the owner, or duly authorized agent of the owner, (**proof must be attached, e.g.** "Power of Attorney) for the purposes of this application; that all information submitted herein is true and correct. I understand that submitting this application does not constitute approval, and incomplete applications will result in delays and possible denial."



Owner / Agent (circle one)

SUBSCRIBED AND SWORN TO before me, this the Notary Public in and for the State of Texas:

Official Use Only:			-
Planning & Zoning:		Date:	
City Council:		Date:	
Applicant Withdrew: Yes or No Applicant Made a Written Withdrawal: Yes or No	Date: Date:		

PLATTING APPLICATION

SHEET INDEX

SHEET TITLE

- COVER
- 2 PRELIMINARY PLAT SHEET 1 OF 2
- 3 PRELIMINARY PLAT SHEET 2 OF 2
- GENERAL NOTES
- PAVING PLAN & PROFILE DEAN MEADOW LN BEGIN TO STA 10+50
- 6 PAVING PLAN & PROFILE DEAN MEADOW LN STA 10+50 TO 21+50
- PAVING PLAN & PROFILE DEAN MEADOW LN STA 21+50 TO CUL-DE-SAC
- 8 PAVING CROSS SECTIONS
- GRADING PLAN SHEET 1 OF 2
- 10 GRADING PLAN SHEET 2 OF 2
- 11A SWALE SECTIONS
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- 18 WATER PLAN SHEET 2 OF 2
- 19 WATER PLAN
- 20 WATER PROFILES
- 21 EROSION CONTROL PLAN
- 22 EROSION CONTROL DETAILS
- 23 WATER DETAILS SHEET 1 OF 2
- 24 WATER DETAILS SHEET 2 OF 2
- 25 WATER DETAILS

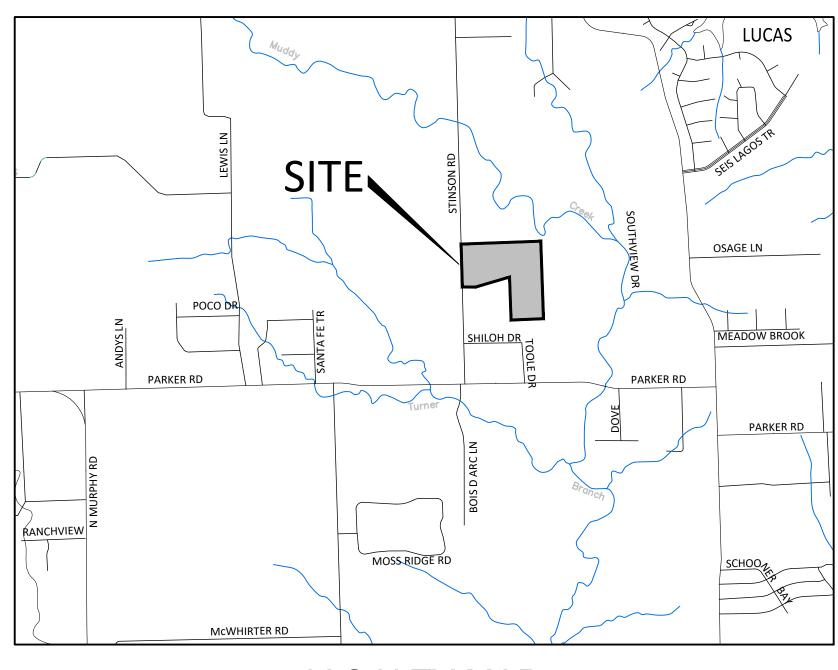
OWNER/DEVELOPER:

WARNER LAND ADVISORS, LP. 4040 N. CENTRAL EXPRESSWAY, SUITE 850 DALLAS, TEXAS 75024 PHONE (214) 368-0238 CONTACT: PRESTON WALHOOD

ENGINEER/SURVEYOR/LANDSCAPE ARCHITECT: JOHNSON VOLK CONSULTING, INC. 704 CENTRAL PARKWAY EAST, SUITE 1200 PLANO, TEXAS 75074 PHONE: (972) 201-3100 CONTACT: TOM DAYTON

CONSTRUCTION PLANS FOR DEAN FARMS AT STINSON HIGHLAND

27 RESIDENTIAL LOT SUBDIVISION AN ADDITION TO THE CITY OF LUCAS COLLIN COUNTY, TEXAS 44.084 ACRES



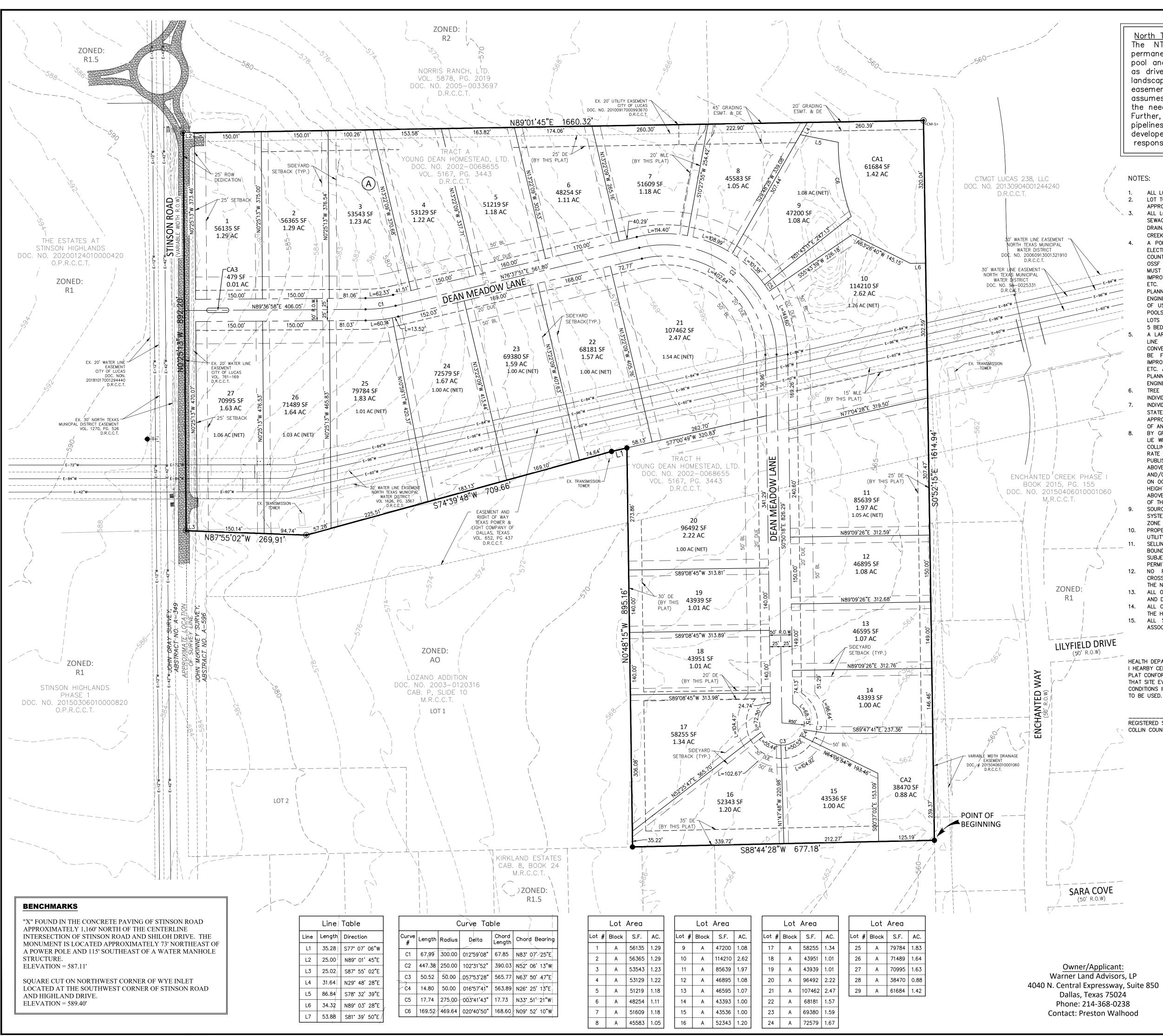
VICINITY MAP N.T.S.

September 2022





REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON SHEET 20.



North Texas Municipal Water District (NTMWD) Note: The NTMWD easement restricts construction of permanent structures such as foundations, walls, pool and permanent storage buildings. Items such as driveways, fences, sprinkler systems and normal landscaping plans that encroach on the NTMWD easements are allowed. However, the NTMWD assumes no responsibility for damage resulting from the need to repair or maintain the NTWMD pipelines Further, any cost for repair for damage to the pipelines resulting from construction by the developer, contractor or owner will be the responsibility of the developer, contractor or owner.

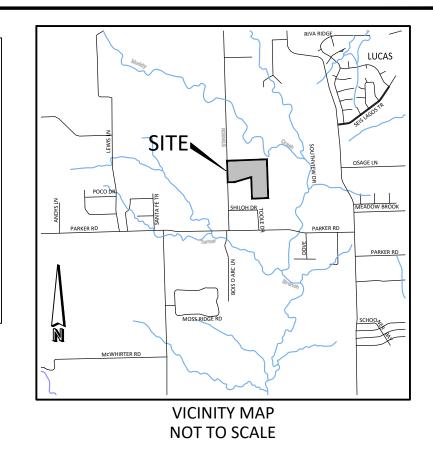
NOTES:

- ALL LOTS MUST USE ALTERNATIVE TYPE ON-SITE SEWAGE FACILITIES. LOT TO LOT DRAINAGE IS NOT PERMITTED WITHOUT ENGINEERING SECTION
- APPROVAL. ALL LOTS MUST MAINTAIN STATE-MANDATED SETBACK OF ALL ON-SITE SEWAGE FACILITY COMPONENTS FROM ANY/ALL EASEMENTS AND DRAINAGE AREAS, WATER DISTRIBUTION LINES, SHARP BREAKS AND/OR CREEKS/RIVERS/PONDS, ETC.
- 4. A PORTION OF LOTS 10, 11, 20-27, BLOCK A, ARE WITHIN A 250' ELECTRICAL LINE EASEMENT. THESE LOTS DO NOT CONFIRM TO COLLIN COUNTY OSSF REGULATIONS. THE EASEMENT MAY NOT BE USED FOR OSSF CONVEYANCE, STORAGE OR DISPOSAL AND REQUIRED SETBACKS MUST BE FOLLOWED. DUE TO SETBACK RESTRICTIONS, NO SURFACE IMPROVEMENTS, IMPERVIOUS COVER, OUTBUILDINGS, SWIMMING POOLS, ETC. ARE ALLOWED ON SAID LOTS WITHOUT A PRE-CONSTRUCTION PLANNING MEETING WITH A REGISTERED SANITARIAN/PROFESSIONAL ENGINEER AND COLLIN COUNTY DEVELOPMENTS SERVICES. NOTE: LACK OF USEABLE LOT MAY PRECLUDE SAID LOTS FROM HAVING SWIMMING POOLS AND/OR OUTBUILDINGS. ADDITIONALLY, DWELLING SIZE ON SAID LOTS MAY BE LIMITED TO A MAXIMUM OF 5,500 SQUARE FEET AND/OR 5 BEDROOMS.
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- SOURCE BEARING IS BASED ON TEXAS STATE PLANE COORDINATE SYSTEM. PROJECTION: STATE PLANE NAD83 TEXAS NORTH CENTRAL ZONE 4204, LAMBERT CONFORMAL CONIC (TX83-NCF).
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- THE NTWMD EASEMENTS IN LOTS 10, 21-27, BLOCK A. ALL OPEN SPACE LOTS (CA1, CA2 & CA3) SHALL BE ACCESS, UTILITY AND DRAINAGE EASEMENTS.
- ALL OPEN SPACE LOTS (CA1, CA2 & CA3) SHALL BE MAINTAINED BY 14. THE HOMEOWNERS ASSOCIATION.
- ALL STREET LIGHTS SHALL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION

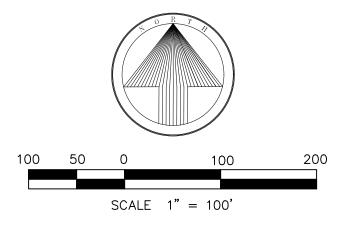
HEALTH DEPARTMENT CERTIFICATION

I HEARBY CERTIFY THAT THE ON-SITE SEWAGE FACILITIES DESCRIBED ON THIS PLAT CONFORM TO THE APPLICABLE OSSF LAWS OF THE STATE OF TEXAS, THAT SITE EVALUATIONS HAVE BEEN SUBMITTED REPRESENTING THE SITE CONDITIONS IN THE AREA IN WHICH ON-SITE SEWAGE FACILITIES ARE PLANNED TO BE USED.

REGISTERED SANITARIAN OR DESIGNATED REPRESENTATIVE COLLIN COUNTY DEVELOPMENT SERVICES



	LEGEND
•	Point of Curvature or Tangency on Center Line
•	1/2" iron rod w/ yellow plastic cap stamped "JVC" set (unless otherwise noted)
۲	1/2" iron rod found w/ yellow plastic cap stamped "JVC" (unless otherwise noted)
AC	Acre
BL	Building Line
C1	Curve No.
<u>ଜ</u>	Center Line
<cm></cm>	Control Monument
DE	Drainage Easement
Esmt	Easement
L1	Line No.
C1	Curve No.
SF	Square Feet
UE	Utility Easement
WLE	Water Line Easement
U.T.E.	Utility & Telecommunications Easement
P.O.E.	Positive Overflow Easement
W.M.E.	Wall Maintenance Easement
0.P.R.C.C.T.	= Official Public Records of Collin County, Texas
D.R.C.C.T. =	= Deed Records of Collin County, Texas



PURPOSE OF PLAT

THE PURPOSE OF THIS PLAT IS TO CREATE 27 RESIDENTIAL LOTS FROM A 44.084 ACRE TRACT OF LAND

PRELIMINARY PLAT **DEAN FARMS AT STINSON HIGHLAND**

LOTS 1-27, CA1 & CA2, BLOCK A 27 SINGLE FAMILY LOTS & 2 COMMON SPACES 44.084 ACRES OUT OF THE JOHN MCKINNEY SURVEY, ABSTRACT NO. 596 CITY OF LUCAS COLLIN COUNTY, TEXAS EXIST. ZONING: R1

> September 27, 2022 SHEET 1 OF 2

Engineer/Surveyor: Johnson Volk Consulting, Inc. 704 Central Parkway East, Suite 1200 Plano, Texas 75074 Phone: 972-201-3102 Ryan.Renolds@johnsonvolk.com TBPELS FIRM NO. 10194033

CONSULTING TBPELS: Engineering Firm No. 11962 / Land Surveying Firm No. 10194033 704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972.201.3100

JOHNSON VOLK

OWNER'S CERTIFICATION & DEDICATION: STATE OF TEXAS

COUNTY OF COLLIN

BEING a tract of land situated in the JOHN MCKINNEY SURVEY, ABSTRACT NO. 596, City of Lucas, Collin County, Texas and being all of those tracts of land described as Tract A and Tract H in Deed to Young Dean Homestead, Ltd., as recorded in Document No. 2002-0068655 (Volume 5167, Page 3443), Deed Records, Collin County, Texas and being more particularly described as follows:

BEGINNING at a 1/2 inch iron rod found in the west line of ENCHANTED CREEK PHASE 1, an Addition to the City of Lucas, Collin County, Texas according to the Plat thereof recorded in Book 2015, Page 155 (Document No. 20150406010001060), Map Records, Collin County, Texas for the common southeast corner of said Tract H and northeast corner of KIRKLAND ESTATES, an Addition to the City of Lucas, Collin County, Texas according to the Plat thereof recorded in Cabinet 8, Book 24, Map Records, Collin County, Texas;

THENCE South 88 degrees 44 minutes 28 seconds West, leaving said west line and with the common south line of said Tract H and north line of said KIRKLAND ESTATES Addition, a distance of 677.18 feet to a 1/2 inch iron rod found for the common southwest corner of said Tract H and southeast corner of Lot 2 of LOZANO ADDITION, an Addition to the City of Lucas, Collin County, Texas according to the Plat thereof recorded in Cabinet P, Slide 10 (Document No. 2003-0120316), Map Records, Collin County, Texas;

THENCE North 00 degrees 48 minutes 15 seconds West, leaving said common line and with the common west line of said Tract H and east line of said Lot 2, a distance of 895.16 feet to a 1/2 inch iron rod found in the south line of said Tract A for the common northwest corner of said Tract H and northeast corner of said Lot 2;

THENCE South 77 degrees 07 minutes 06 seconds West, leaving said common line and with the common south line of said Tract A and north line of said Lot 2, a distance of 35.28 feet to a 1/2 inch iron rod found for corner;

THENCE South 74 degrees 39 minutes 48 seconds West, continuing with said common line, a distance of 709.66 feet to a 1/2 inch iron rod with a yellow plastic cap stamped "JVC" set for corner;

THENCE North 87 degrees 55 minutes 02 seconds West, continuing with said common line, a distance of 269.91 feet to an "X" set in concrete for the southwest corner of said Tract A;

THENCE North 00 degrees 25 minutes 13 seconds West, leaving said common line, a distance of 892.20 feet to a 1/2 inch iron rod with a yellow plastic cap stamped "JVC" set for the common northwest corner of said Tract A and southwest corner of that tract of land described in deed to Norris Ranch, Ltd., as recorded in Volume 5878, page 2019 (Document No. 2005-0033697), Deed Records, Collin County, Texas;

THENCE North 89 degrees 01 minutes 45 seconds East, a distance of 1,660.32 feet to a 1/2 inch iron rod with a red plastic cap stamped "KHA" found for the northeast corner of said Tract A;

THENCE South 00 degrees 52 minutes 15 seconds East, a distance of 1,614.94 feet to the POINT OF BEGINNING and containing 44.084 acres of land, more or less.

NOW THEREFORE, KNOW ALL MEN BY THESE PRESENTS:

That WARNER LAND ADVISORS, LP., does hereby bind themselves and their heirs, assignees and successors of title this plat designating the hereinabove described property as DEAN FARMS AT STINSON HIGHLAND, an addition to the City of Lucas, and does hereby dedicate to the use of the public forever any streets, alleys, right-of-way or easements shown thereon, and does hereby reserve the easement strips shown on this plat for the purposes stated and for the mutual use and accommodation of garbage collection agencies and all utilities desiring to use or using same. Any public utility shall have the right to remove and keep removed all or part of any buildings, fences, trees, shrubs, or other growths or improvements that in any way endanger or interfere with construction, maintenance or efficiency of its respective systems on any of these easement strips, and any public utility shall at all times have the right of ingress or egress to and from and upon the said easement strips for purpose of constructing, reconstructing, inspecting, patrolling, without the necessity at any time of procuring the permission of anyone. Additionally, WARNER LAND ADVISORS, LP., certifies that it is the sole owner of the dedicated property and that no other's interest is attached to this property unless otherwise indicated on the required Mortgage Holder Certification that is included on this plat. Furthermore, as the owner of the property described herein, and in consideration of establishing the subdivision described herein, it agrees to the following:

- Every owner of fee simple title to every individual lot within the subdivision shall be a member of the homeowners' association;
- The homeowners' association shall have the authority to collect membership fees;
- As applicable as it pertains to conditions shown herein, the homeowners' association shall be responsible for the maintenance of all common areas, screening walls, landscaped areas, private streets and alleys. • The homeowners' association shall grant the City the right of access to any areas to abate any nuisances on
- such areas and attach a lien upon each individual lot for the prorated cost of abatement. • The homeowners' association shall indemnify and hold the City harmless from any and all costs, expenses, suits,
- demand, liabilities, damages, or otherwise, including attorney fees and costs of suit, in connection with the City's maintenance of common areas.
- The homeowners' association shall, where additional rights-of-way has been dedicated for the purpose of providing landscaping, additional areas for sidewalks, walls or other amenities, enter into a license agreement with the City and shall be responsible for the installation and maintenance of all landscape areas in the public rights—of way.

This plat approved subject to all platting ordinances, rules, regulations and resolutions of the City of Lucas, Texas.

WARNER LAND ADVISORS, LP.

BY: Warner Capital, LLC By: Stephen L. Sallman, Manager

STATE OF TEXAS COUNTY OF COLLIN

Before me, the undersigned authority, a Notary Public in and of the State of Texas, on this day personally appeared WARNER LAND ADVISORS, LP., known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purpose and consideration therein stated.

Given under my hand and seal of office, this ____ day of _____, 20___,

Notary public in and for the State of Texas

My Commission Expires

SURVEYOR'S CERTIFICATE:

THAT I, Ryan S. Reynolds, do hereby certify, that I prepared this plat from an actual on the ground survey of the land as described and that the corner monuments shown thereon were properly placed under my personal supervision in accordance with the Platting Rules and Regulations of the City of Lucas Planning and Zoning Commission.

PRELIMINARY, THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT.

RYAN S. REYNOLDS. R.P.L.S.

STATE OF TEXAS § COUNTY OF COLLIN §

Given under my hand and seal of office, this ____ day of _____, 20___.

Notary public for and in the State of Texas

My commission expires: _____

NOW, THEREFORE KNOW ALL MEN BY THESE PRESENTS:

Texas Registered Professional Land Surveyor No. 6385.

CERTIFICATE OF APPROVAL:

This plat is hereby approved by the Planning and Zoning Commission of the City of Lucas, Texas. This plat approved subject to all platting ordinances, rules, regulations and resolutions of the City of Lucas, Texas.

Dusty Kuykendall Chair, Planning and Zoning Commission	Date
ATTEST:	
Signature	 Date

_____ _____ Name & Title Date

The Director of Public Works of the City of Lucas, Texas hereby certifies that to the besf of his/her knowledge or belief, this subdivision plat conforms to all requirements of the Code of Ordinances and with engineering construction standards and processes adopted by the City of Lucas, Texas as to which his/her approval is required.

Before me, the undersigned authority, a Notary Public in and for the said County and State, on this day personally appeared ______, 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 purpose and considerations therein expressed.

Director of Public Works

Scott Holden, PE

The Development Services Director of the City of Lucas, Texas hereby certifies that to the besf of his/her knowledge or belief, this subdivision plat conforms to all requirements of the Code of Ordinances or as many have been amended or modified, as allowed, by the Planning and Zoning Commission as to which his/her approval required.

Date

_____ Joseph Hilbourn Director of Development Services

NOTES:

- ALL LOTS MUST USE ALTERNATIVE TYPE ON-SITE SEWAGE FACILITIES. LOT TO LOT DRAINAGE IS NOT PERMITTED WITHOUT ENGINEERING SECTION
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> September 27, 2022 SHEET 2 OF 2

Engineer/Surveyor: Johnson Volk Consulting, Inc. 704 Central Parkway East, Suite 1200 Plano, Texas 75074 Phone: 972-201-3102 Ryan.Renolds@johnsonvolk.com TBPELS FIRM NO. 10194033

JOHNSON VOLK CONSULTING TBPELS: Engineering Firm No. 11962 / Land Surveying Firm No. 10194033 704 Central Parkway East | Suite 1200 | Plano, TX 75074 | 972,201,3100

Date

PAVING NOTES

1. CONCRETE FOR ALL STREETS AND PRIVATE DEVELOPMENTS SHALL BE IN ACCORDANCE WITH NCTCOG, FOURTH EDITION OR AS AMENDED CLASS "C" CONCRETE (SIX SACK 3,600 P.S.I.) ITEM 303.3.4.2(a) AND ITEM 303.5.6.2 HAND.

2. REINFORCING STEEL SHALL BE DEFORMED BARS NO. NO. 4 BARS ON 18 INCH CENTERS. REINFORCING SHALL BE IN BOTH DIRECTIONS ON CENTER. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM 615, 616 AND 617.

3. ALL REINFORCING STEEL SHALL BE TIED (100%). REINFORCING STEEL SHALL BE SET ON PLASTIC CHAIRS. BAR LAPS SHALL BE MINIMUM 30 DIAMETERS. NO STEEL SHALL BE PLACED UNTIL THE SUBGRADE HAS BEEN TESTED AND PASSED.

4. EXPANSION JOINTS SHALL BE SPACED EVERY 600 FEET, AT ALL INTERSECTIONS AND CHANGES IN DIRECTION OF PAVING. ALLEYS SHALL HAVE A MINIMUM OF TWO EXPANSION JOINTS.

5. SAWED TRANSVERSE DUMMY JOINTS SHALL BE SPACED EVERY 15 FEET OR 1.25 TIMES LONGITUDINAL JOINT SPACING WHICHEVER IS LESS. SAWING SHALL OCCUR WITHIN 5 TO 12 HOURS AFTER THE POUR INCLUDING SEALING.

6. SUBGRADE UNDER PAVEMENTS SHALL BE IN ACCORDANCE WITH GEOTECH REPORT NO. G220942 FURNISHED BY ALPHA TESTING ON JULY 19, 2022.

7. LIME TRIMMINGS ARE NOT ACCEPTABLE FOR ANY USE.

8. ALL FILL SHALL BE COMPACTED BY MECHANICAL METHODS. MAXIMUM LOOSE LIFT FOR COMPACTION SHALL BE 8 INCHES. ALL LIFTS SHALL BE TESTED FOR DENSITY BY AN INDEPENDENT LABORATORY APPROVED BY THE CITY. DENSITY REQUIREMENT SHALL BE AS SHOWN ON THE PLANS FOR THE TYPE OF MATERIAL CALLED FOR IN THE PLANS.

9. ALL DISTURBED AREAS OF ROADWAY WORK SHALL HAVE GRASS ESTABLISHED IMMEDIATELY. GRASS SHALL MEET THE REQUIREMENTS OF ITEM 202, LANDSCAPING, OF NCTCOG SPECIFICATIONS, FOURTH EDITION OR AS AMENDED.

10. ALL AREAS TO BE EXCAVATED OR FILLED SHALL HAVE EROSION CONTROL PLACED PRIOR TO COMMENCING EARTHWORK. EROSION CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE PROJECT IN ACCORDANCE WITH NCTCOG ITEM 201, FOURTH EDITION OR AS AMENDED.

11. NO VEHICLES SHALL BE PERMITTED ON CONCRETE PAVEMENT WITHOUT APPROVAL FROM THE CITY. THE CITY WILL MAKE DETERMINATION BASED ON CONCRETE BREAK REPORT.

12. CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR REVIEW PRIOR TO PRE-CONSTRUCTION MEETING. REVISE THE FIRST PARAGRAPH OF NCTCOG SPEC. 303.2.1.3 COARSE AGGREGATE TO READ "CRUSHED LIMESTONE SHALL CONSTITUTE 100% OF THE COARSE AGGREGATE.

13. ALL AREAS NOT UNDER PAVING, INCLUDING ALL FRANCHISE UTILITY EASEMENTS, SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 92 PERCENT OF THE MAXIMUM DENSITY.

14. ANY CURB AND/OR STREET SECTION REMOVED FOR THE CONSTRUCTION OF A PRIVATE DRIVEWAY SHALL NOT BE REMOVED PRIOR TO 7 DAYS OF CONSTRUCTION OF THE DRIVEWAY. IF THE DRIVEWAY IS NOT CONSTRUCTED WITHIN THIS TIME FRAME AND EXCAVATION HAS BEEN MADE, EXCAVATION SHALL BE REPLACED UNTIL SUCH TIME CONSTRUCTION COMMENCES.

15. MAXIMUM TEMPERATURE OF THE CONCRETE FOR PLACEMENT SHALL BE IN ACCORDANCE WITH ITEM 303.5.5.2. OF THE NCTCOG STANDARD SPECIFICATIONS.

16. PAVING EQUIPMENT REQUIRED SHALL BE AS SPECIFIED IN NCTCOG 2017 EDITION UNDER ITEM 303.4.

17. WATER INJECTION OF SUBGRADE BY CITY ENGINEER APPROVAL ONLY.

STORM SEWER

1. THE FLOOR OF THE EXCAVATION FOR INLET BOX MUST PROVIDE A FIRM, LEVEL BED FOR THE BASE SECTION TO REST UPON.

2. A MINIMUM OF 6 INCHES OF 1"DIAMETER (MAXIMUM) ROCK OR GRAVEL SHALL BE USED TO PREPARE THE BEDDING TO FINAL GRADE OR IN LIEU OF THIS, AT LEAST 6 INCHES OF 2-SACK CEMENT STABILIZED SAND SHALL BE USED TO PREPARE THE BEDDING TO GRADE. CEMENT STABILIZED SAND SHALL BE ALLOWED TO SET BY KEEPING HOLE PUMPED DRY.

3. AFTER PIPE HAS BEEN LAID ON PROPER BEDDING, BACKFILLING TO COMMENCE WITH 8"MAXIMUM LOOSE LIFTS MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR UNDER ROADWAY OR 12"MAXIMUM LOOSE LIFT BEHIND CURB. MAXIMUM SIZE ROCK IN BACKFILL SHALL NOT EXCEED 4 INCHES IN DIAMETER.

- 4. PRECAST INLETS MUST BE APPROVED BY THE CITY.
- 5. CONCRETE TO BE MINIMUM 4200 P.S.I.
- 6. LOCKING DEVICE IS REQUIRED ON ALL STORM SEWER LIDS.
- 7. "NO DUMPING" WARNING PLAQUE TO BE INSTALLED ON ALL STANDARD AND RECESSED INLETS.
- 8. CONCRETE CAST-IN-PLACE INLETS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,200 P.S.I. @ 28 DAYS.

9. EXISTING STORM SEWER PIPE AND/OR LATERALS SHALL BE LOCATED PRIOR TO SETTING OR CONSTRUCTING INLET BOXES. IF ADJUSTMENT IN GRADE OF LATERAL IS REQUIRED, A REVISED DESIGN BY THE ENGINEER OF RECORD SHALL BE SUBMITTED TO THE CITY FOR APPROVAL.

10. REINFORCED CONCRETE PIPE CLASS III IS APPROVED WITHIN THE CITY.

11. COLOR TV INSPECTION SHALL BE COMPLETED ON THE STORM SEWER IN THE PRESENCE OF CITY REPRESENTATIVE AND THE ORIGINAL MEDIA SHALL BE GIVEN TO THE CITY AT THE COMPLETION OF THE INSPECTION.

STREET SIGN SPECIFICATIONS

STREET NAME SIGNS FOR ALL INTERSECTIONS BY THE CONSTRUCTION OF A SUBDIVISION SHALL BE FURNISHED AND INSTALLED BY THE DEVELOPER. THE INSTALLATION OF THE STREET SIGNS MUST BE PRIOR TO THE FINAL ACCEPTANCE OF THE SUBDIVISION. THE LEGEND SHALL CONTAIN THE NAME OF THE STREET, ANY SUFFIX AS DESIGNATED ON THE PLAT, AND THE BLOCK NUMBER AS ASSIGNED BY THE CITY. THE SIGN FACE SHALL BE HIP PRISMATIC WHITE W/BLUE EC FILM WITH CITY LOGO. THE SIGN PLATE SHALL BE 9 INCHES TALL AND 0.080 INCHES THICK FLAT BLADE ALUMINUM DRILLED. THE STREET NAME SHALL BE 6 INCH UPPER CASE LETTERS. THE SUFFIX AND BLOCK LETTERS SHALL BE 3 INCHES. ALL LETTERS SHALL BE WHITE. THE SIGNS SHALL BE MOUNTED ON A 2 INCH BY 12 FOOT SQUARE POST WITH A 2.25 INCH BY 36 INCH SQUARE GROUND ANCHOR AND 2.5 INCH BY 18 INCH SLEEVE. THE ANCHOR POST SHALL BE DRIVEN INTO THE GROUND AT A DEPTH OF 30 INCHES. THE STREET NAME SHALL BE MOUNTED 10 FEET FROM THE TOP OF THE CURB MEASURED TO THE BOTTOM OF THE LOWEST SIGN. SIGNS SHALL BE MOUNTED ON SQUARE POSTS USING DRIVE RIVETS, WASHER, SPACE AND CHERRY MATE RIVETS TO ATTACH ENDS OF SIGN TOGETHER.

ALL STREET LIGHTS SHALL BE MAINTAINED BY THE HOMEOWNERS ASSOCIATION.

WATER

1. ALL WATER LINE CROSSINGS OF SANITARY SEWER LINES SHALL BE AS SHOWN IN THE PLANS AND MEET TCEQ REQUIREMENTS.

2. PIPES 12 INCHES IN DIAMETER AND SMALLER SHALL BE POLYVINYL CHLORIDE (P.V.C.) MEETING THE REQUIREMENTS OF AWWA C900 DR 18 OR DUCTILE IRON PIPE (D.I.P.) MEETING THE REQUIREMENTS OF AWWA C 151 CLASS 50 PIPE. ALL D.I.P. SHALL BE WRAPPED WITH A POLYETHYLENE LINER.

3. FOR PIPES LARGER THAN 12 INCHES IN DIAMETER, THE PIPE SHALL BE REINFORCED CONCRETE CYLINDER PIPE (AWWA C301 OR AWWA C303), DUCTILE IRON PIPE (AWWA C151 CLASS 50) OR POLYVINYL CHLORIDE PIPE UP TO 18 INCHES MEETING THE REQUIREMENTS OF AWWA C905 - 235 P.S.I. RATED PIPE.

4. ALL VALVES ON PIPES 12 INCHES AND SMALLER SHALL BE RESILIENT SEALED WEDGE VALVES (AWWA C509).

5. ALL VALVES ON PIPES LARGER THAN 12 INCHES BUT SMALLER THAN 30 INCHES SHALL BE BUTTERFLY VALVES (AWWA C504) OR WEDGE VALVES (AWWA C509).

6. ALL VALVES ON PIPES 30 INCHES AND LARGER SHALL BE BUTTERFLY VALVES (AWWA C504).

7. EMBEDMENT SHALL BE AS SHOWN IN THE PLANS. BACKFILL WITHIN THE LIMITS OF EXISTING AND PROPOSED PAVEMENT SHALL BE COMPACTED TO 95% STANDARD PROCTOR. OUTSIDE PAVEMENT (EXISTING OR PROPOSED) SHALL BE COMPACTED TO MINIMUM OF 92% STANDARD PROCTOR. ALL COMPACTION SHALL BE BY MECHANICAL METHODS.

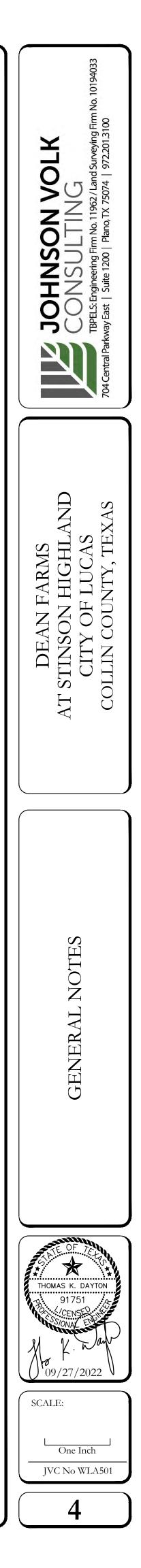
8. WATER LINES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH NCTCOG ITEM 506. ALL WATER LINES SHALL BE SWABBED IN THE PRESENCE OF THE INSPECTOR PRIOR TO BACKFILLING.

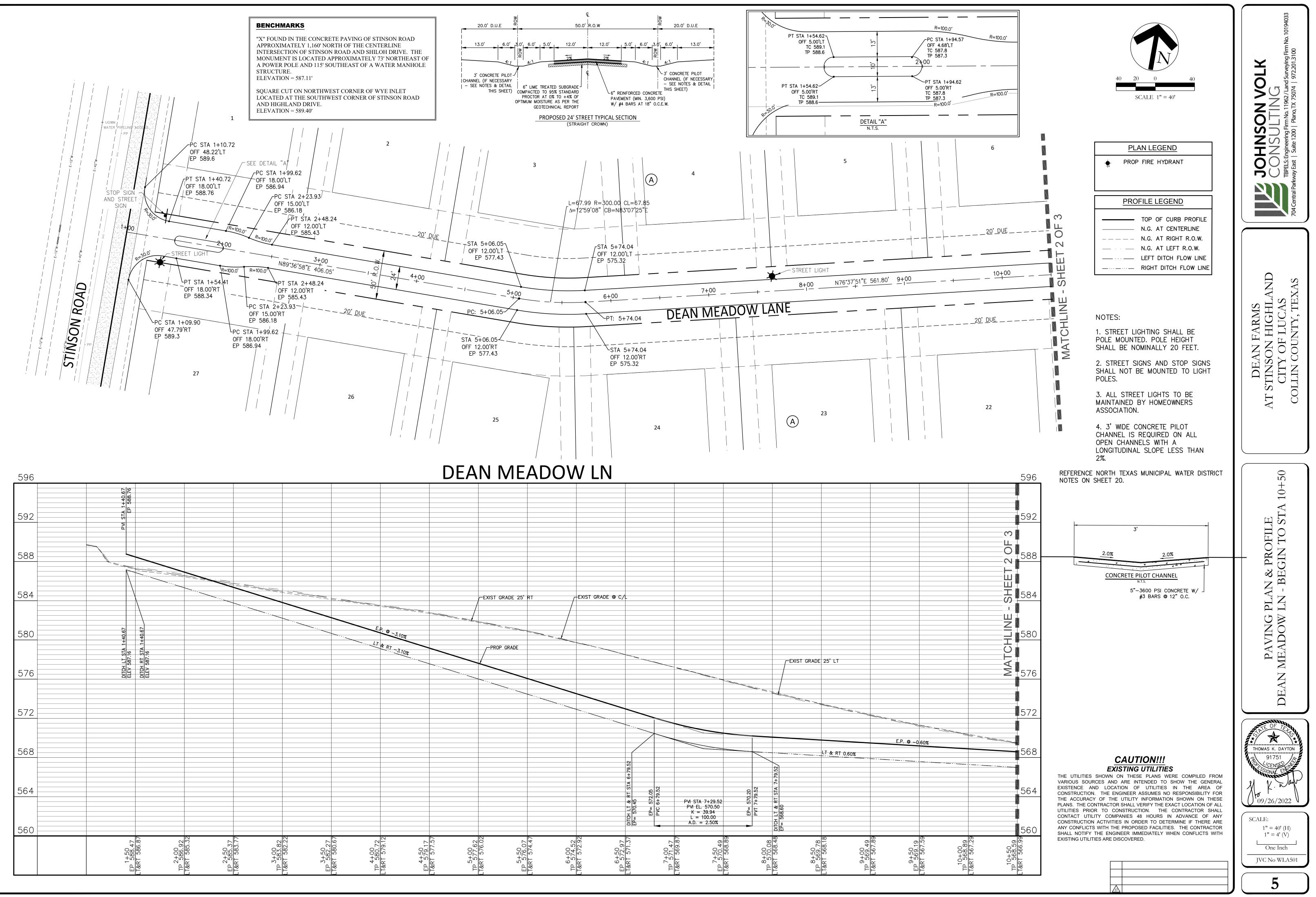
9. ALL HORIZONTAL AND VERTICAL BENDS SHALL BE BLOCKED.

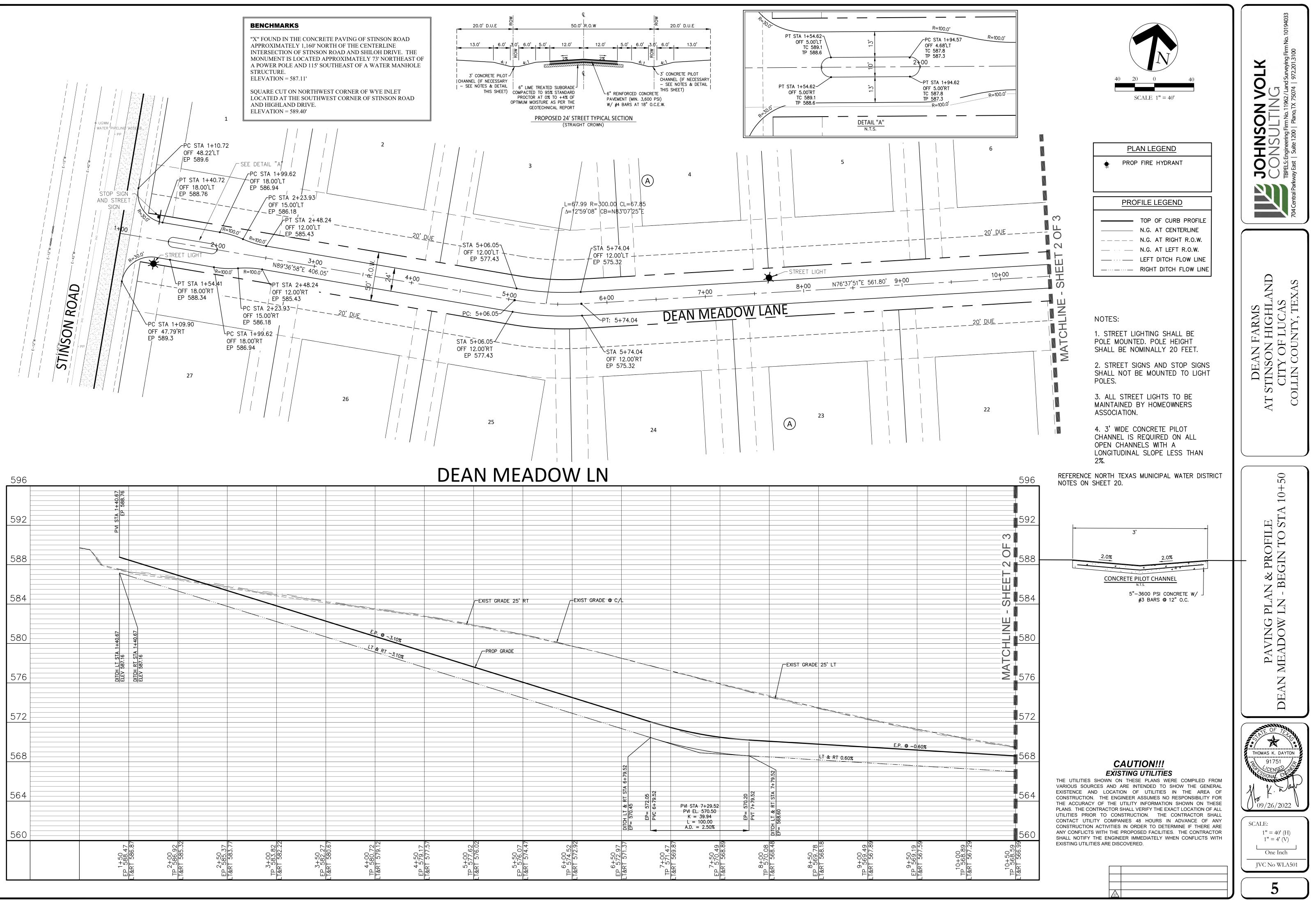
10. ALL FITTINGS SHALL INCLUDE MEGALUG CONNECTORS

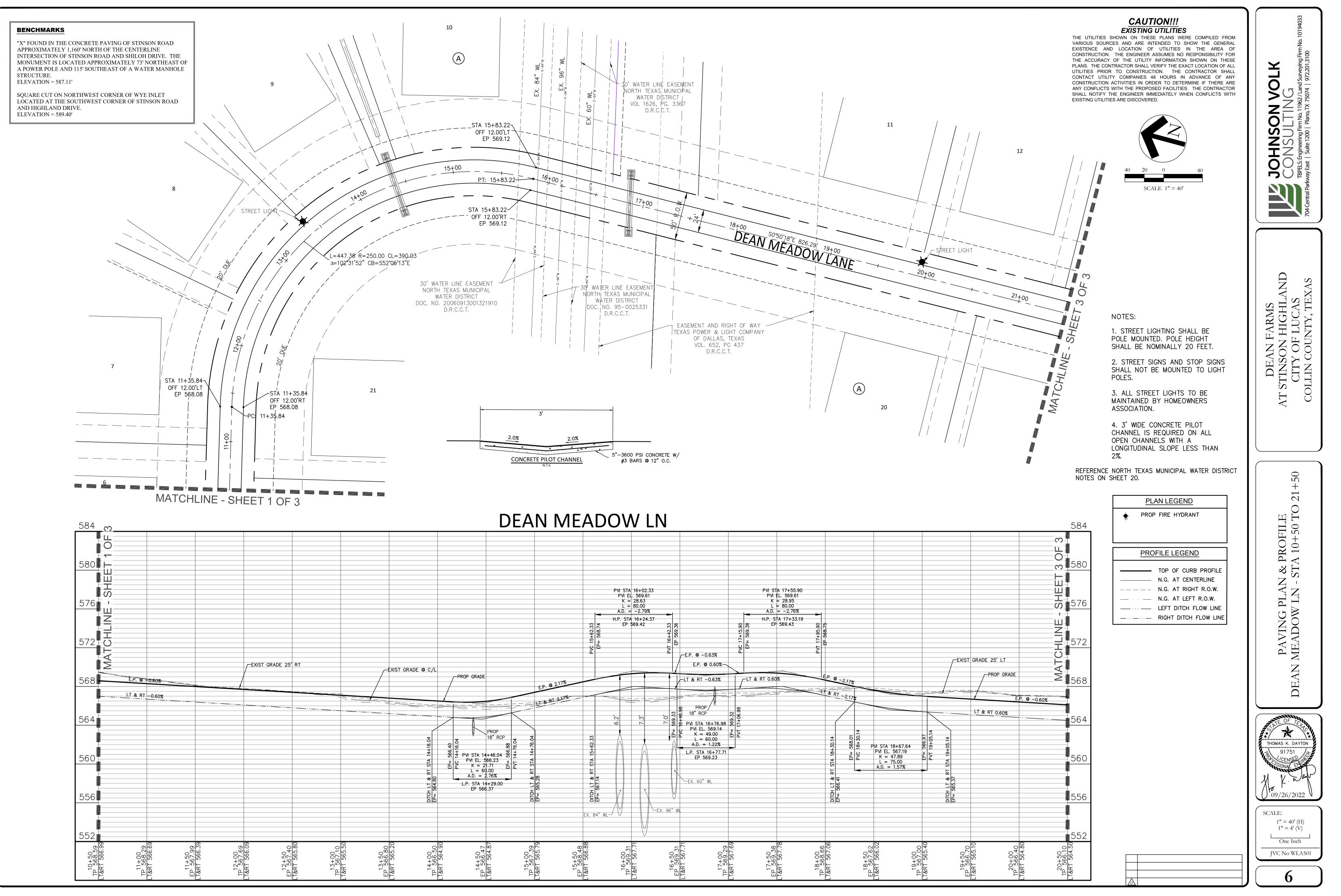
11. ALL FIRE HYDRANTS SHALL BE INSTALLED WITH A 24" x 24" SQUARE REINFORCED CONCRETE PAD.

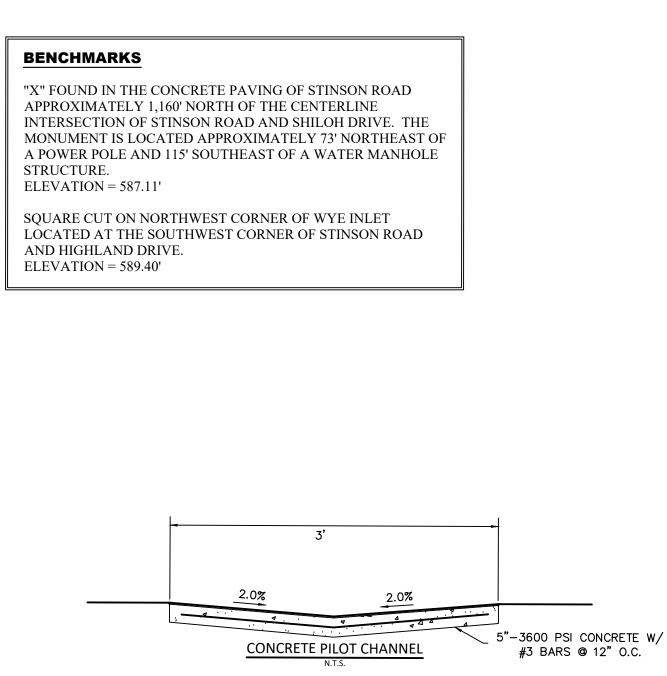
12. ALL WATER LINES SHALL BE SWABBED IN THE PRESENCE OF THE INSPECTOR PRIOR TO BACKFILL.

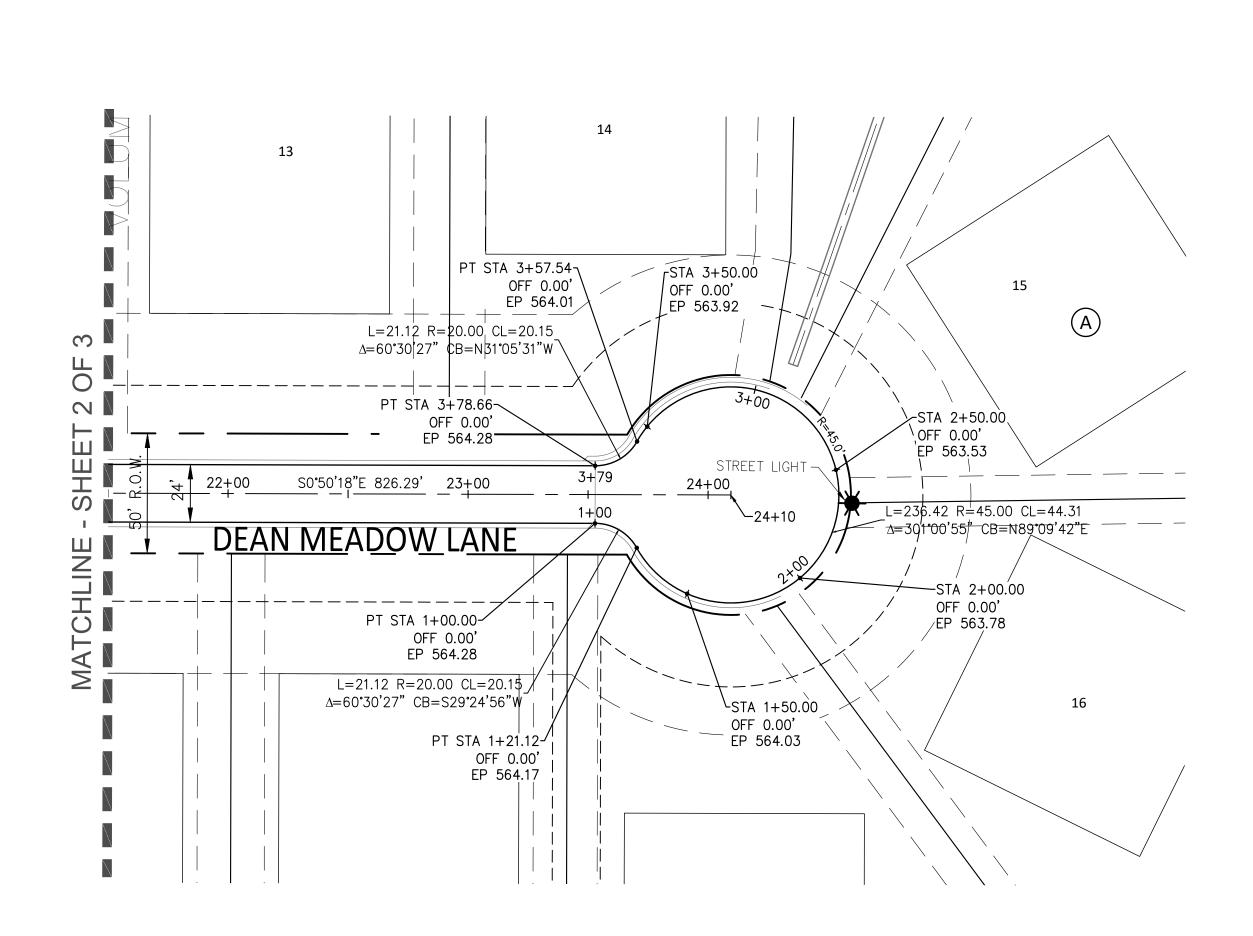


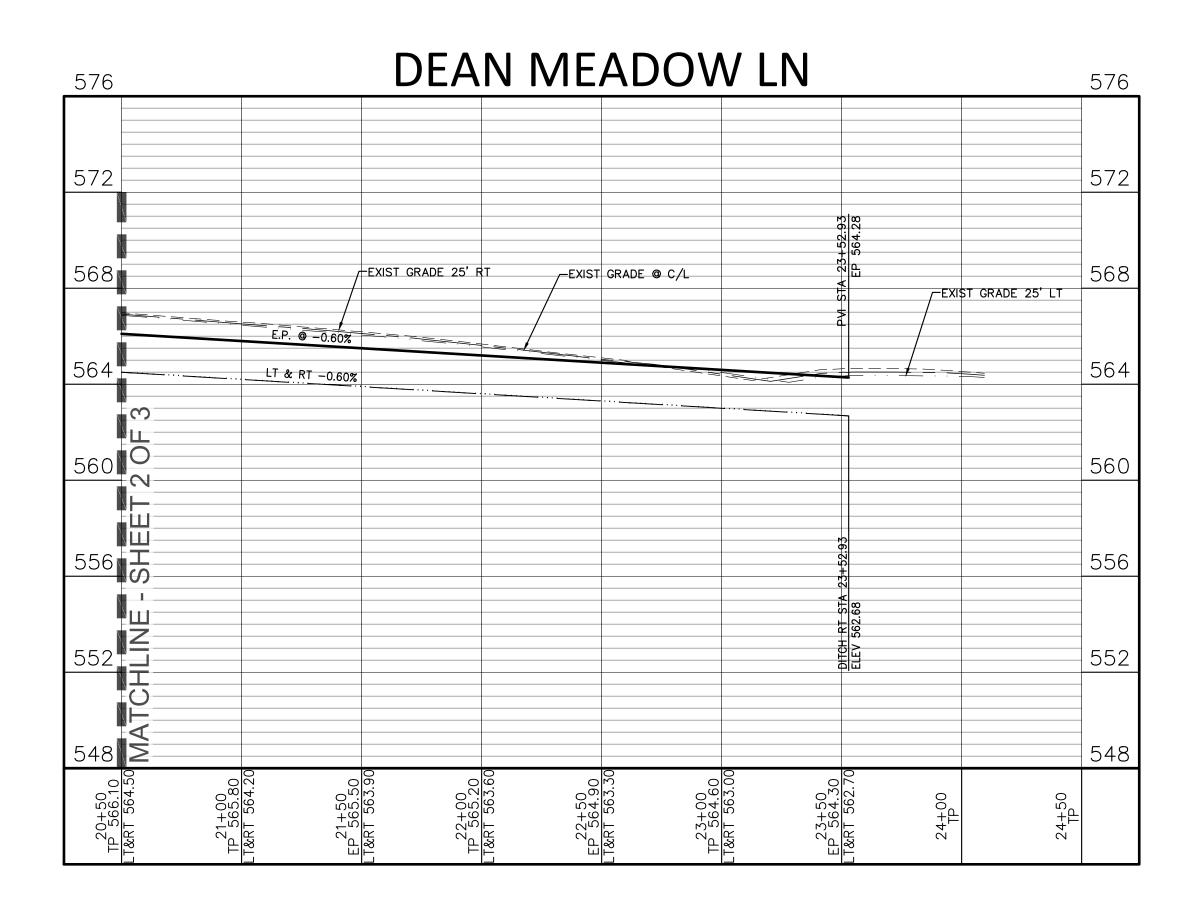


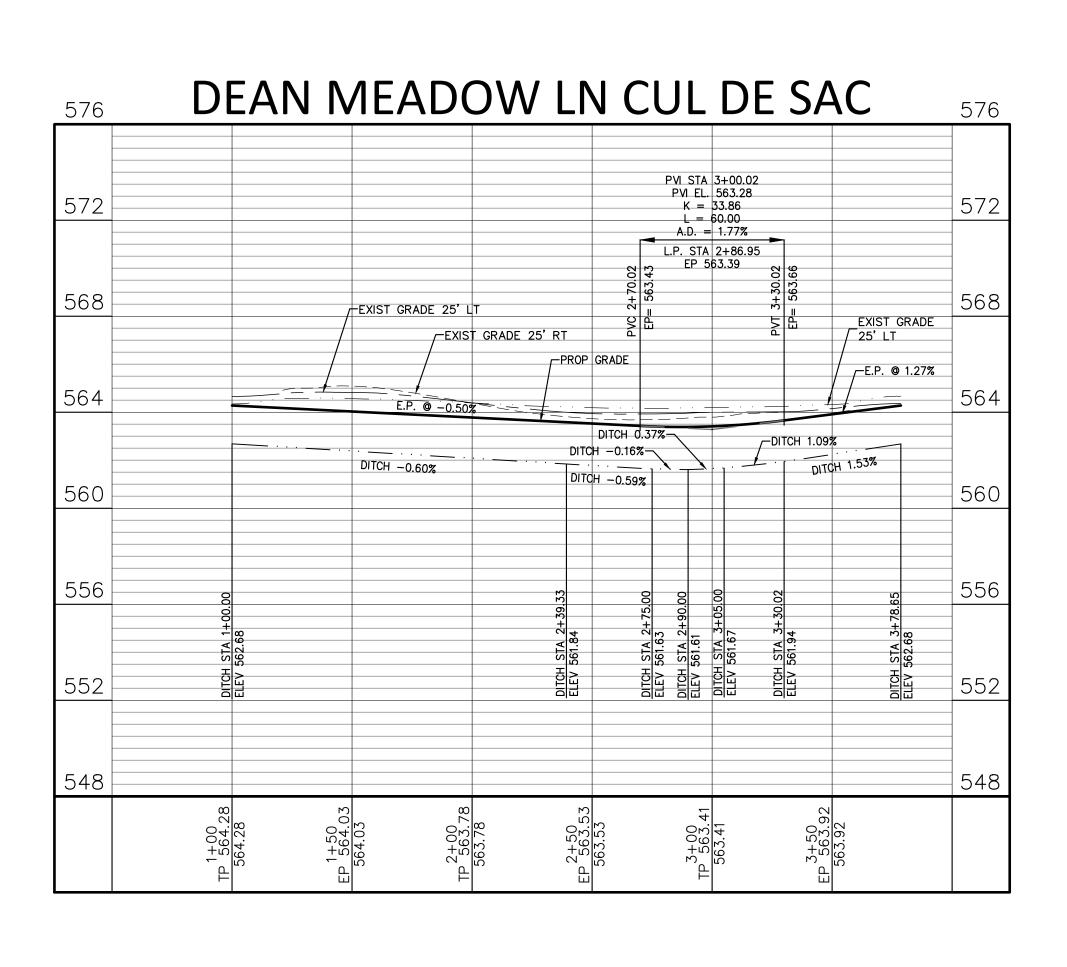






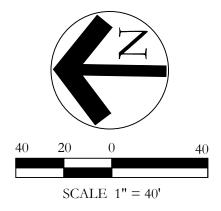






CAUTION!!! EXISTING UTILITIES

THE UTILITIES SHOWN ON THESE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITY INFORMATION SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES IN ORDER TO DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED.



<u>PL</u> A	AN LEGEND
-∯ PROP	FIRE HYDRANT
PROI	FILE LEGEND
	TOP OF CURB PROFILE N.G. AT CENTERLINE
	N.G. AT RIGHT R.O.W.
· ·	N.G. AT LEFT R.O.W.
	LEFT DITCH FLOW LINE RIGHT DITCH FLOW LINE

NOTES:

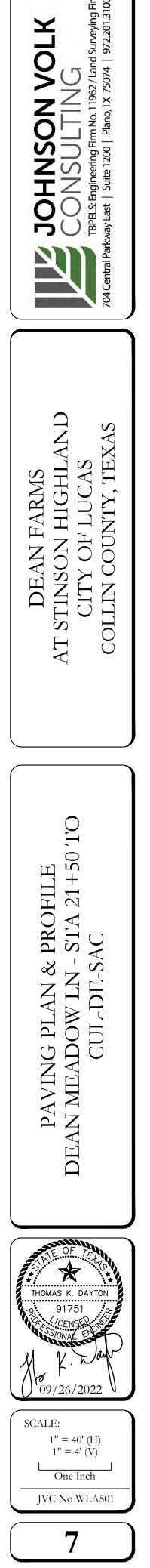
1. STREET LIGHTING SHALL BE POLE MOUNTED. POLE HEIGHT SHALL BE NOMINALLY 20 FEET.

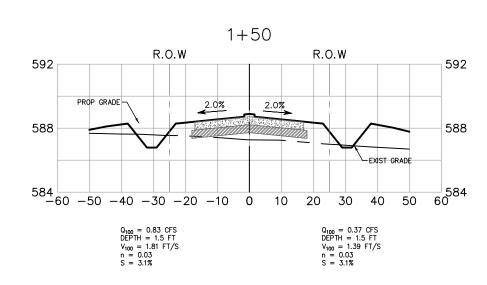
2. STREET SIGNS AND STOP SIGNS SHALL NOT BE MOUNTED TO LIGHT POLES.

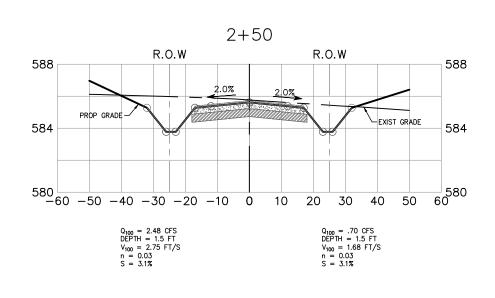
3. ALL STREET LIGHTS TO BE MAINTAINED BY HOMEOWNERS ASSOCIATION.

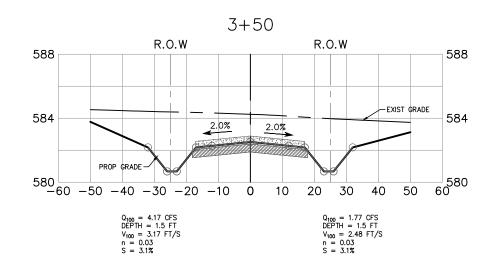
4. 3' WIDE CONCRETE PILOT CHANNEL IS REQUIRED ON ALL OPEN CHANNELS WITH A LONGITUDINAL SLOPE LESS THAN 2%.

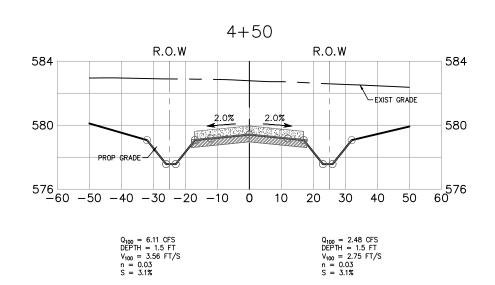
REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON SHEET 20.

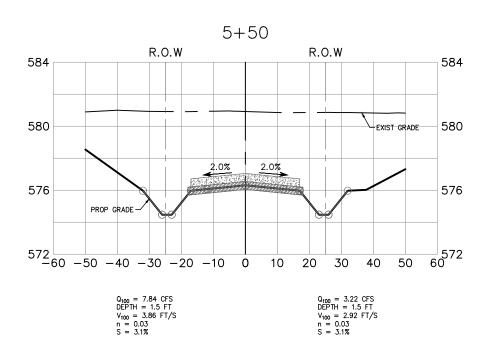


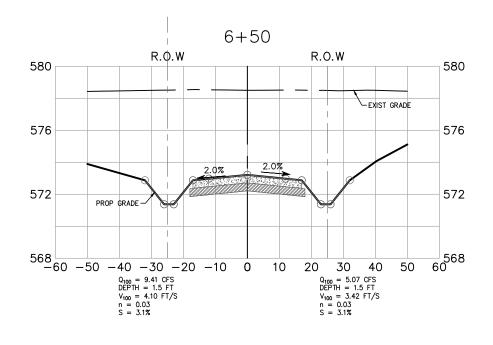


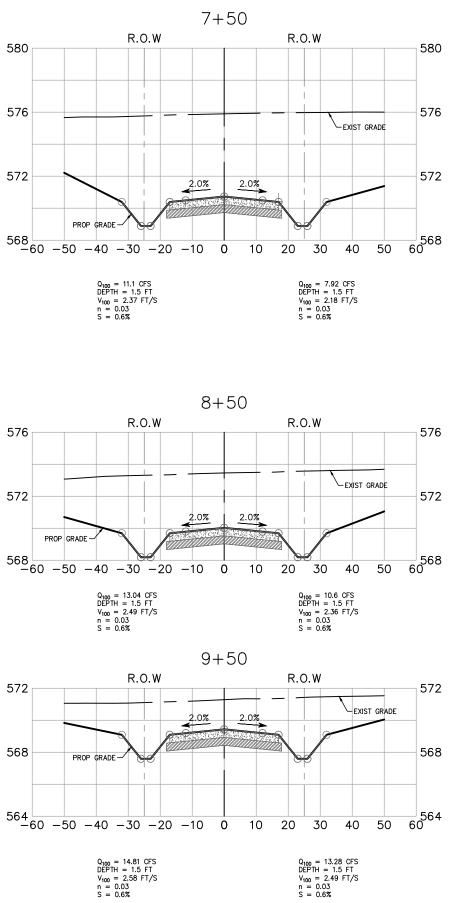


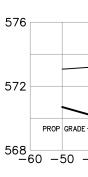






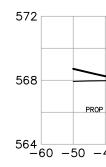




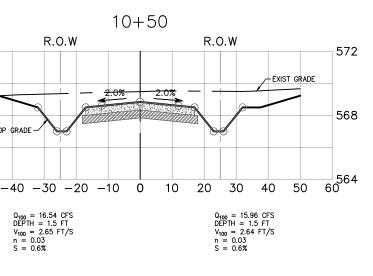


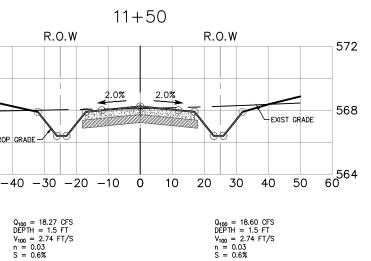


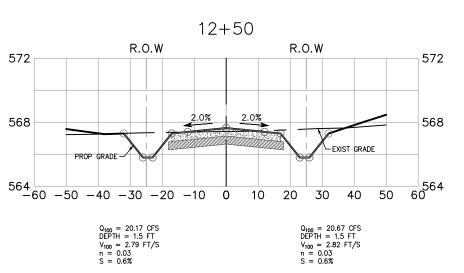
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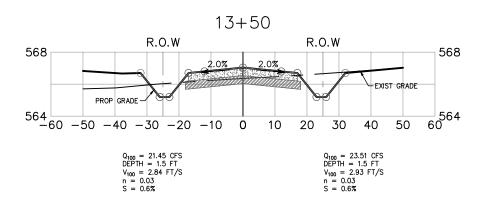


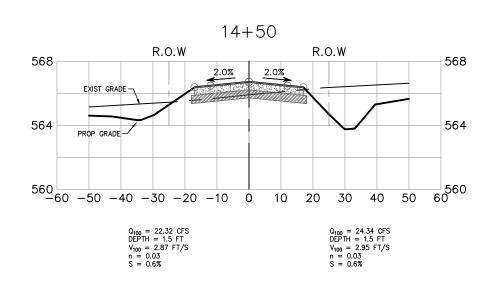
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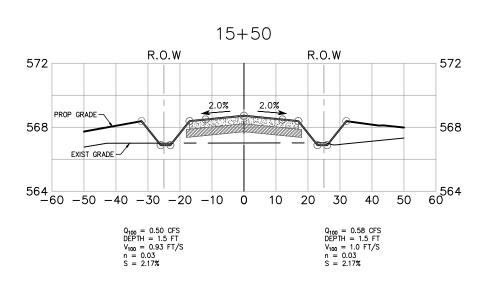


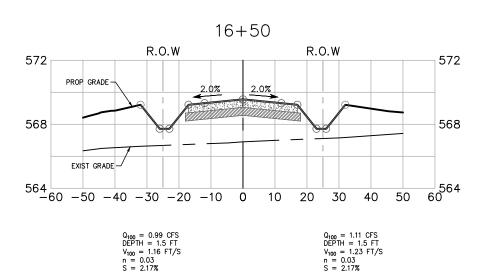


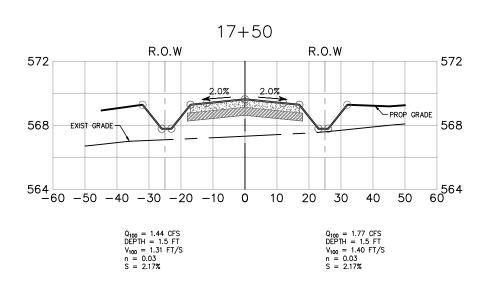


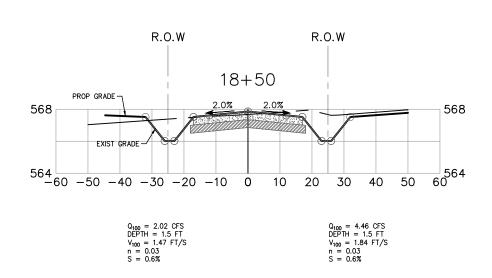


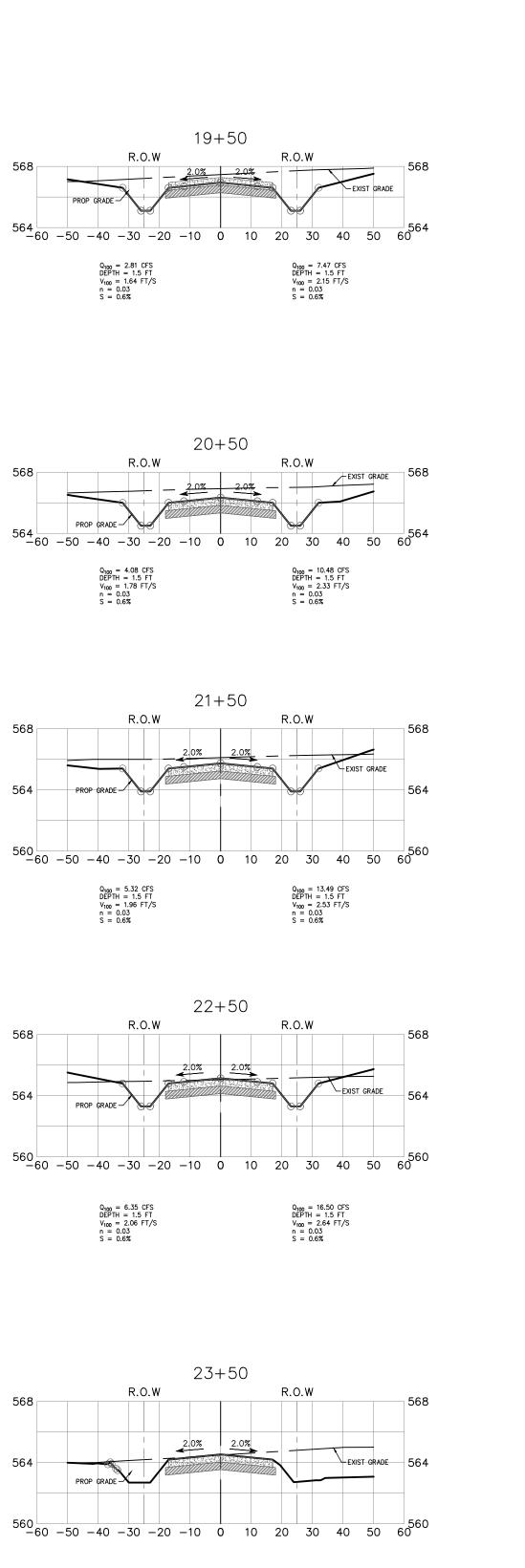








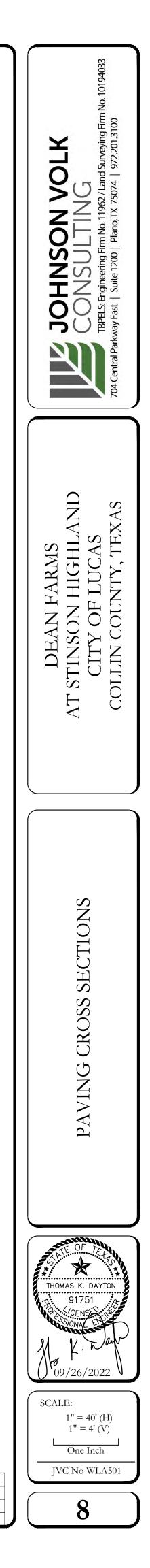


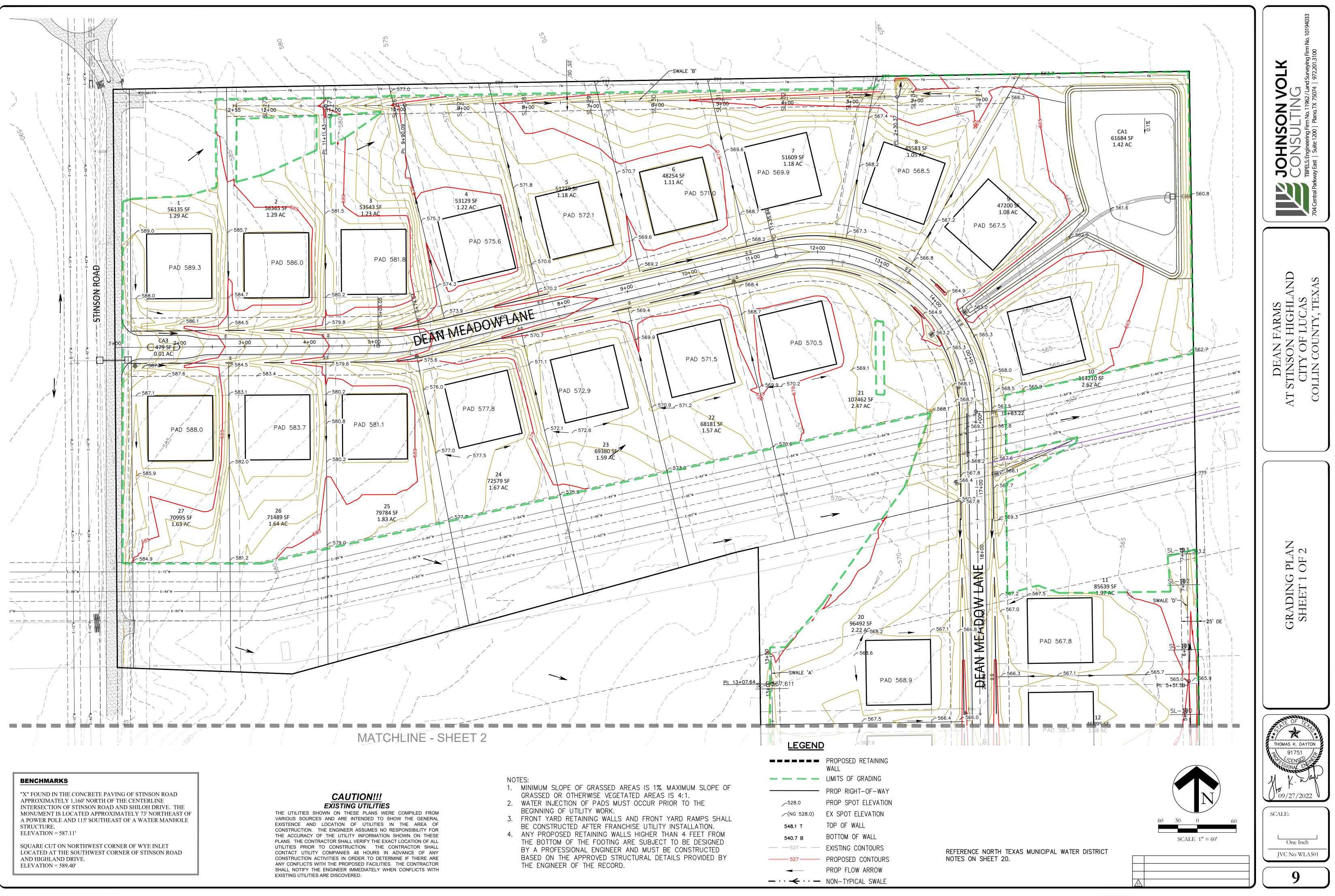


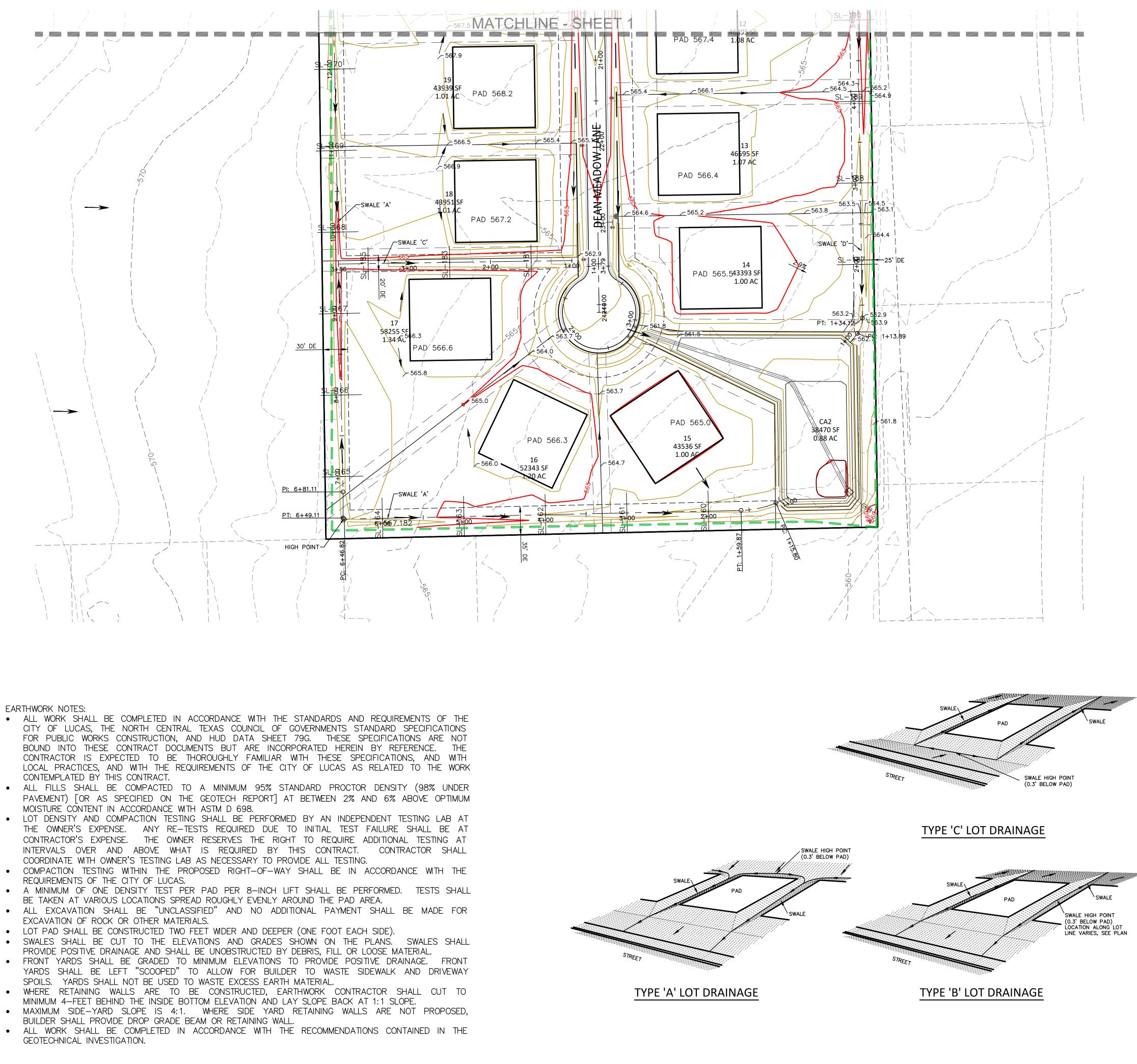
 $\begin{array}{l} {\sf Q}_{100} = \ 73.31 \ {\sf CFS} \\ {\sf DEPTH} = \ 1.5 \ {\sf FT} \\ {\sf V}_{100} = \ 3.77 \ {\sf FT/S} \\ {\sf n} = \ 0.03 \\ {\sf S} = \ 0.5\% \end{array}$



REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON SHEET 20.







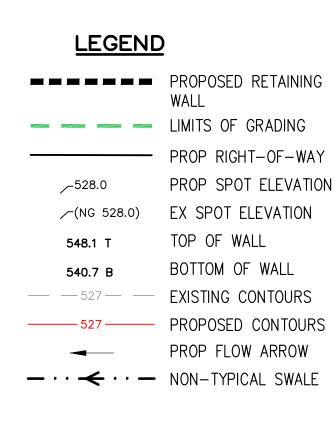
EARTHWORK NOTES:

- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF THE
- ALL FILLS SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY (98% UNDER
- LOT DENSITY AND COMPACTION TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB AT
- COMPACTION TESTING WITHIN THE PROPOSED RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE

- SWALES SHALL BE CUT TO THE ELEVATIONS AND GRADES SHOWN ON THE PLANS. SWALES SHALL
- FRONT YARDS SHALL BE GRADED TO MINIMUM ELEVATIONS TO PROVIDE POSITIVE DRAINAGE. FRONT
- WHERE RETAINING WALLS ARE TO BE CONSTRUCTED, EARTHWORK CONTRACTOR SHALL CUT TO
- MAXIMUM SIDE-YARD SLOPE IS 4:1. WHERE SIDE YARD RETAINING WALLS ARE NOT PROPOSED,
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE

CAUTION!!! EXISTING UTILITIES

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NOTES:

SCALE 1'' = 60'

- 1. MINIMUM SLOPE OF GRASSED AREAS IS 1%. MAXIMUM SLOPE OF GRASSED OR OTHERWISE VEGETATED AREAS IS 4:1.
- 2. WATER INJECTION OF PADS MUST OCCUR PRIOR TO THE BEGINNING OF UTILITY WORK.
- 3. FRONT YARD RETAINING WALLS AND FRONT YARD RAMPS SHALL BE CONSTRUCTED AFTER FRANCHISE UTILITY INSTALLATION.
- 4. ANY PROPOSED RETAINING WALLS HIGHER THAN 4 FEET FROM THE BOTTOM OF THE FOOTING ARE SUBJECT TO BE DESIGNED BY A PROFESSIONAL ENGINEER AND MUST BE CONSTRUCTED BASED ON THE APPROVED STRUCTURAL DETAILS PROVIDED BY THE ENGINEER OF THE RECORD.

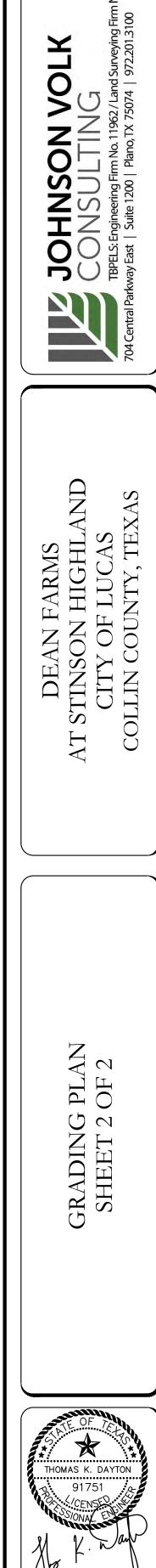
LOT NUMBER	PAD ELEVATION	ELEVATION AT STREET
1	589.3	587.1
2	586.0	582.0
3	581.8	577.4
4	575.6	571.6
5	572.1	569.8
6	571	568.8
7	569.9	567.8
8	568.5	567.2
9	567.5	566.6
10	567.8	567.5
11	567.8	566.8
12	567.4	566.0
13	566.4	565.1
14	565.5	564.2
15	565.0	563.5
16	566.3	563.7
17	566.6	564.0
18	567.2	564.8
19	568.2	565.6
20	568.9	566.5
21	570.5	568.1
22	571.5	569.0
23	572.9	570.0
24	577.8	573.2
25	581.1	577.5
26	583.7	582.3
27	588.0	587.2

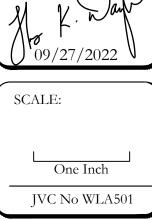
BENCHMARKS

"X" FOUND IN THE CONCRETE PAVING OF STINSON ROAD APPROXIMATELY 1,160' NORTH OF THE CENTERLINE INTERSECTION OF STINSON ROAD AND SHILOH DRIVE. THE MONUMENT IS LOCATED APPROXIMATELY 73' NORTHEAST OF A POWER POLE AND 115' SOUTHEAST OF A WATER MANHOLE STRUCTURE. ELEVATION = 587.11'

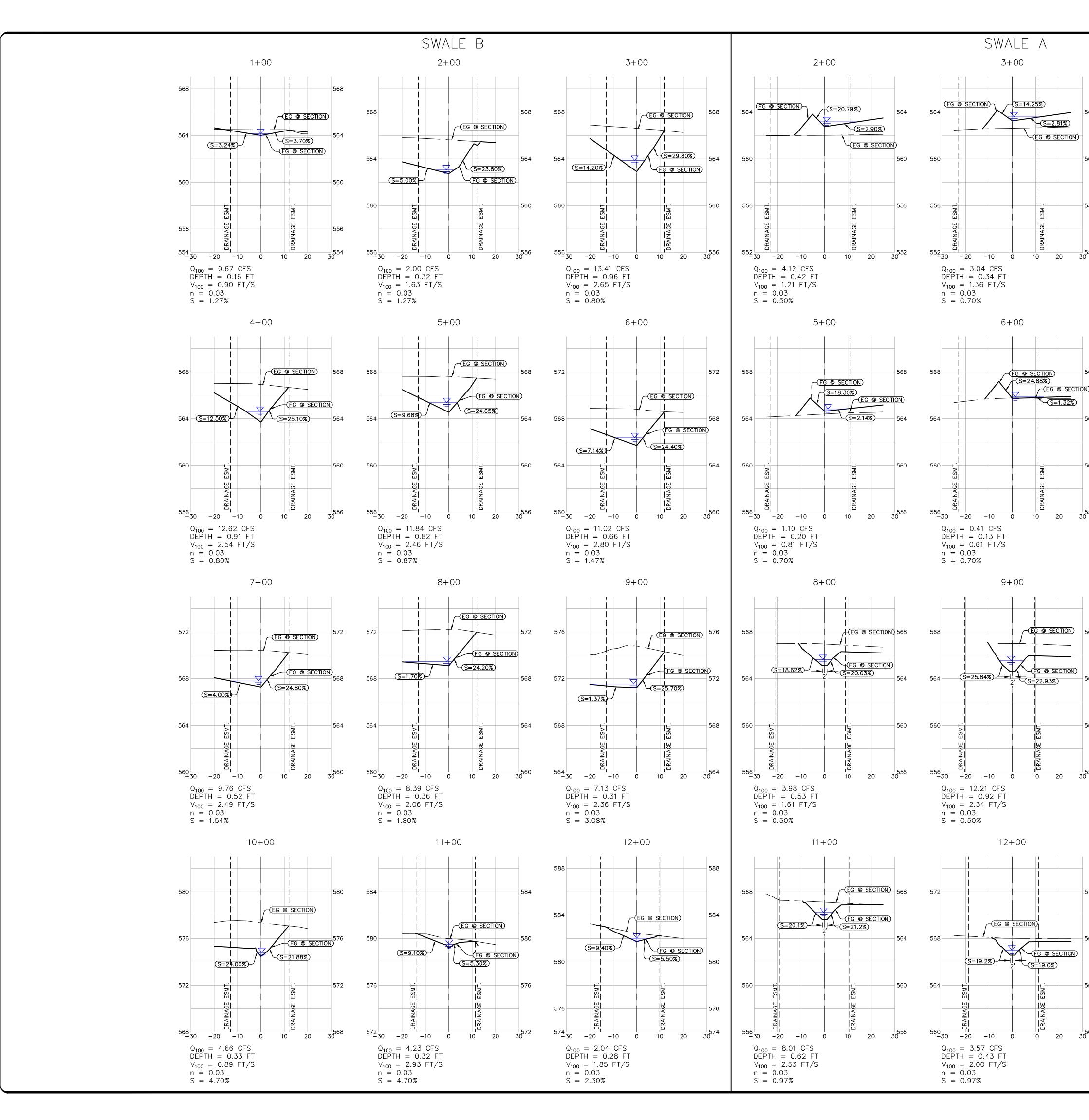
SQUARE CUT ON NORTHWEST CORNER OF WYE INLET LOCATED AT THE SOUTHWEST CORNER OF STINSON ROAD AND HIGHLAND DRIVE. ELEVATION = 589.40'

REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON SHEET 20.

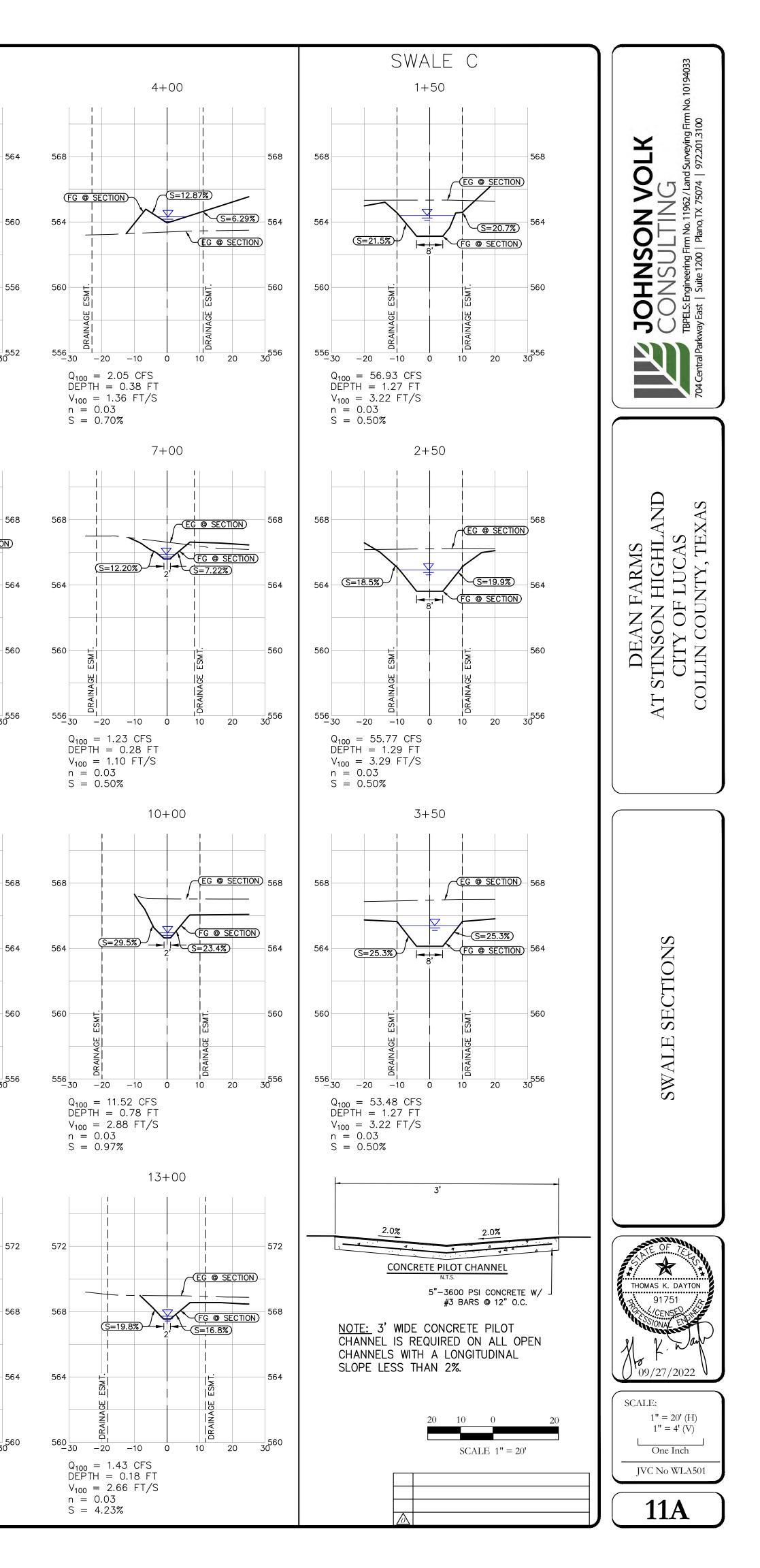


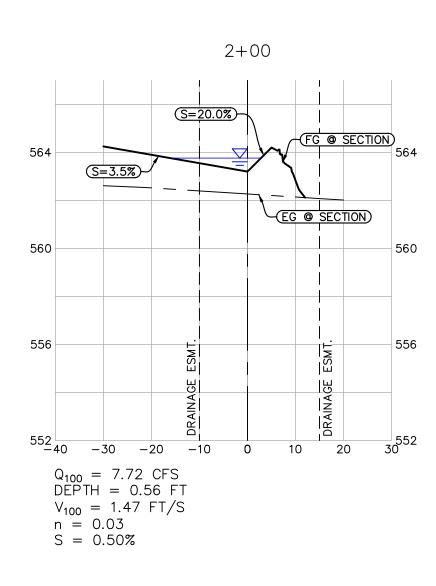


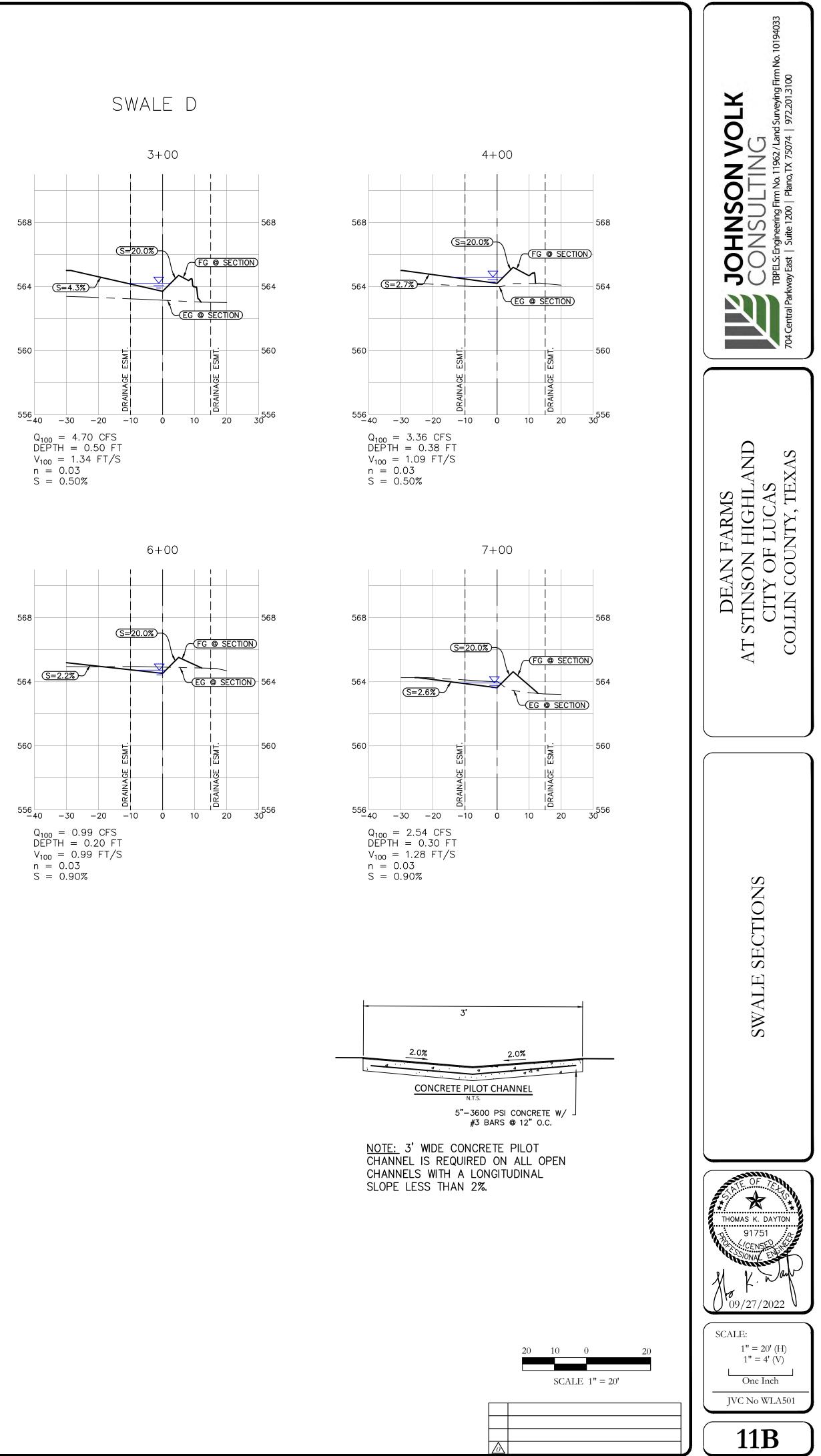
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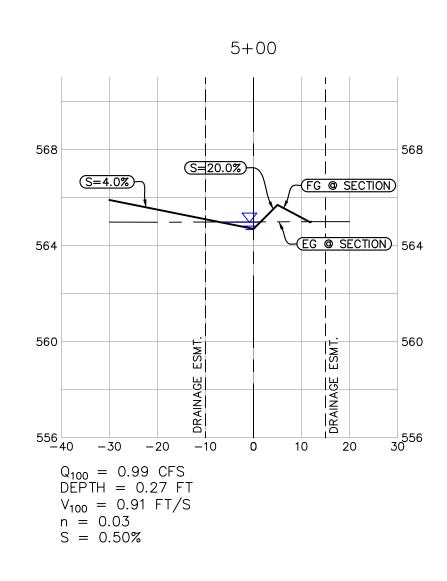


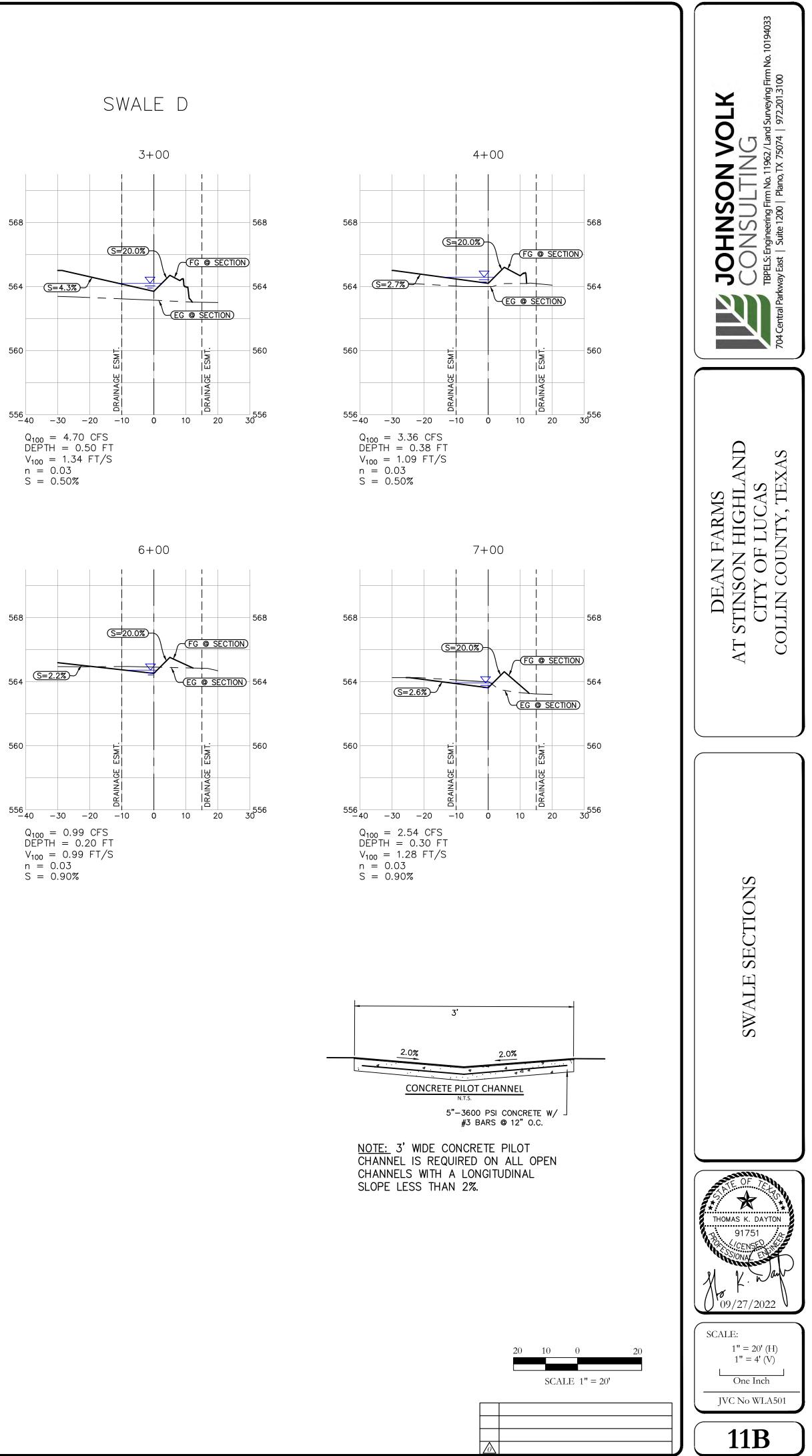
ivil 3d projects/wla - warner land advisors/wla501 - homestead at stinson highland/jvc plans/dwg/sheets/construction plans/wla501 - channel sections.dw

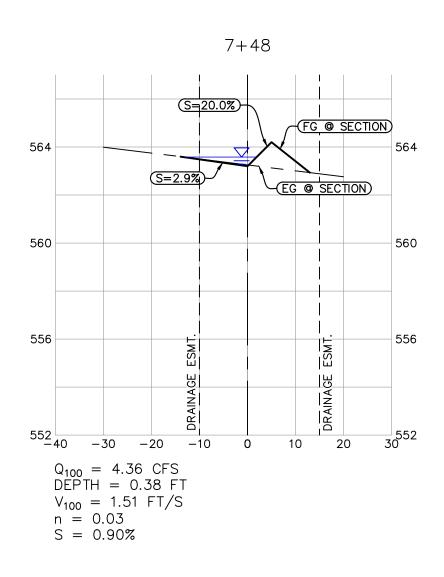


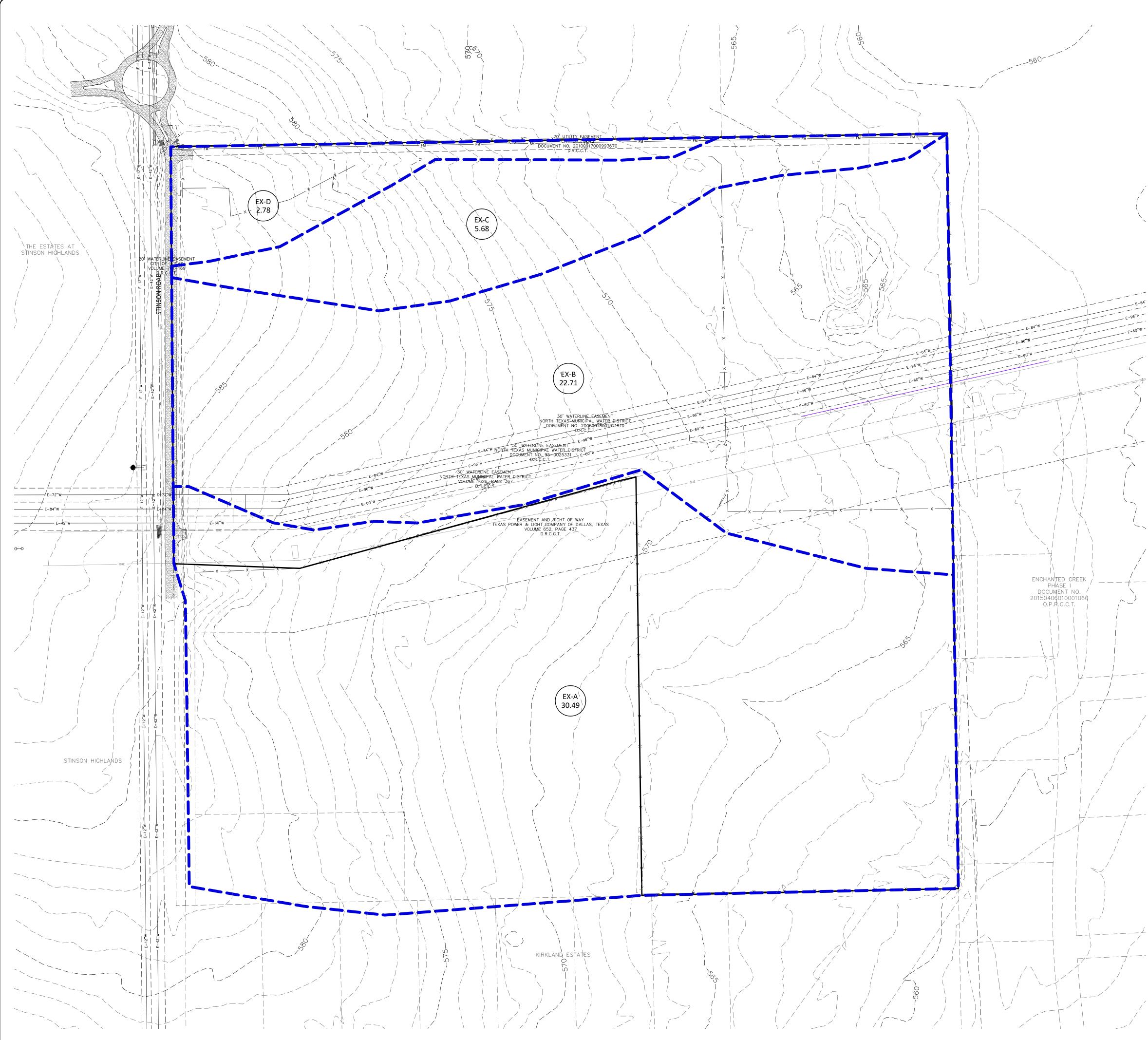




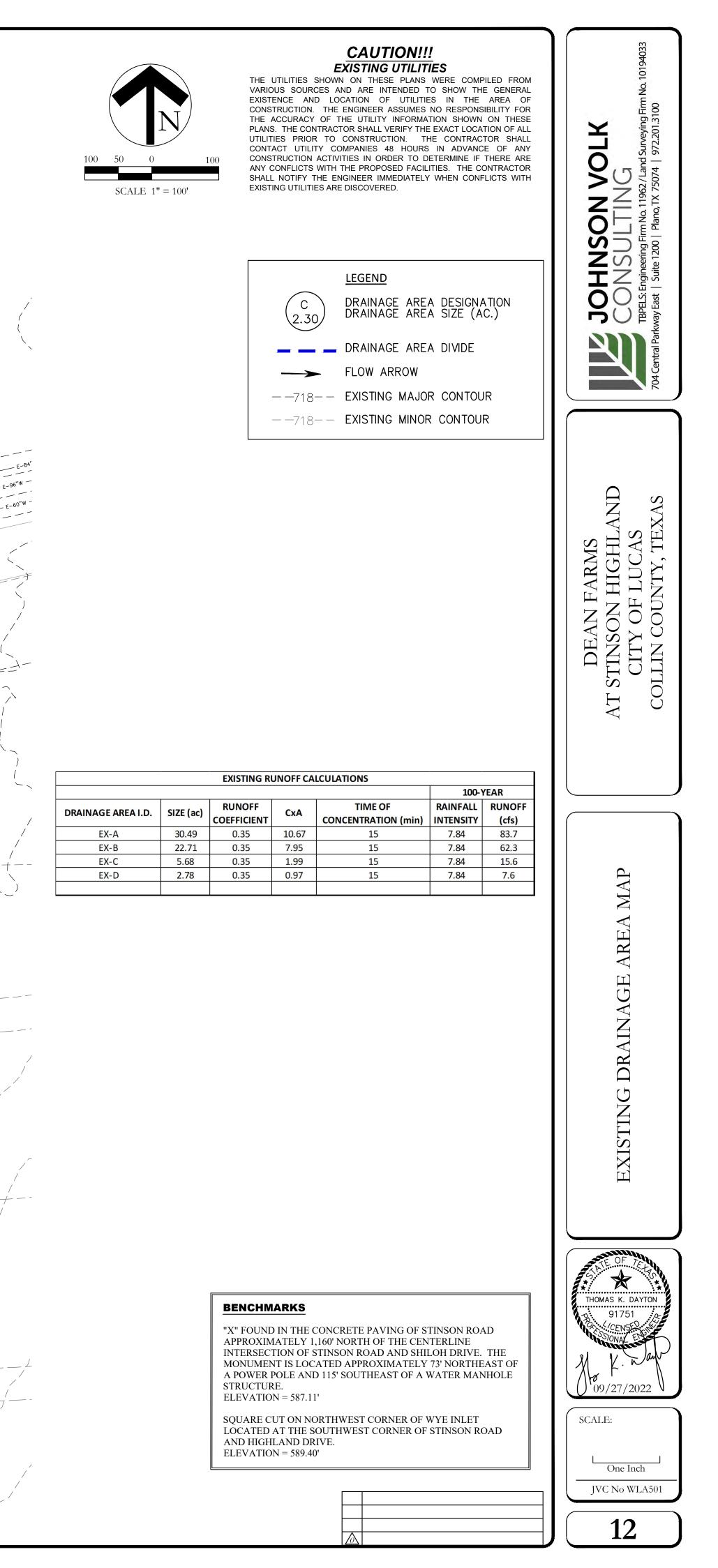






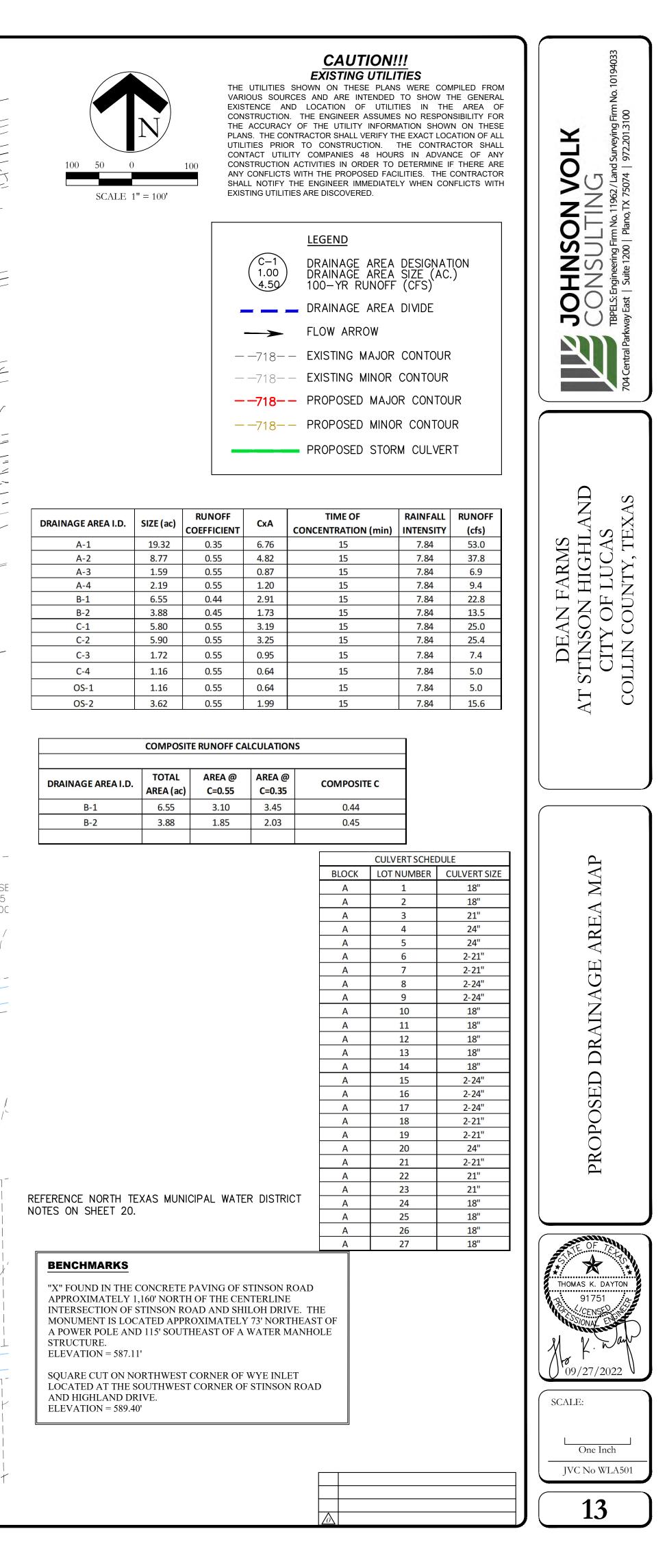


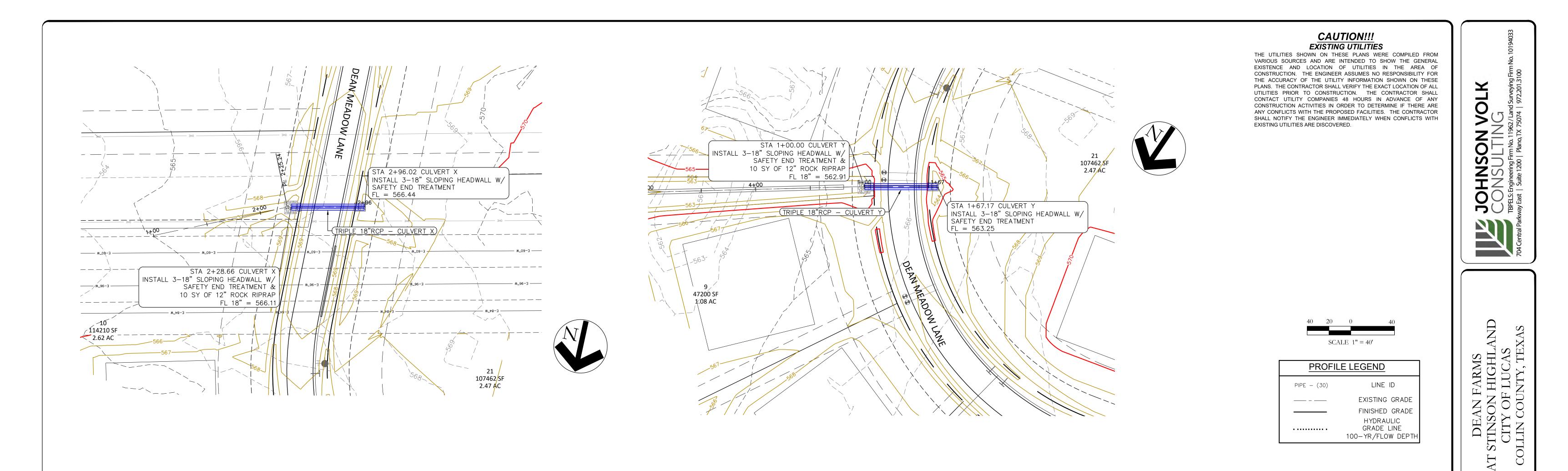
d projects/wla - warner land advisors/wla501 - homestead at stinson highland/jvc plans/dwg/sheets/construction plans/wla501 - existing dam.dwg

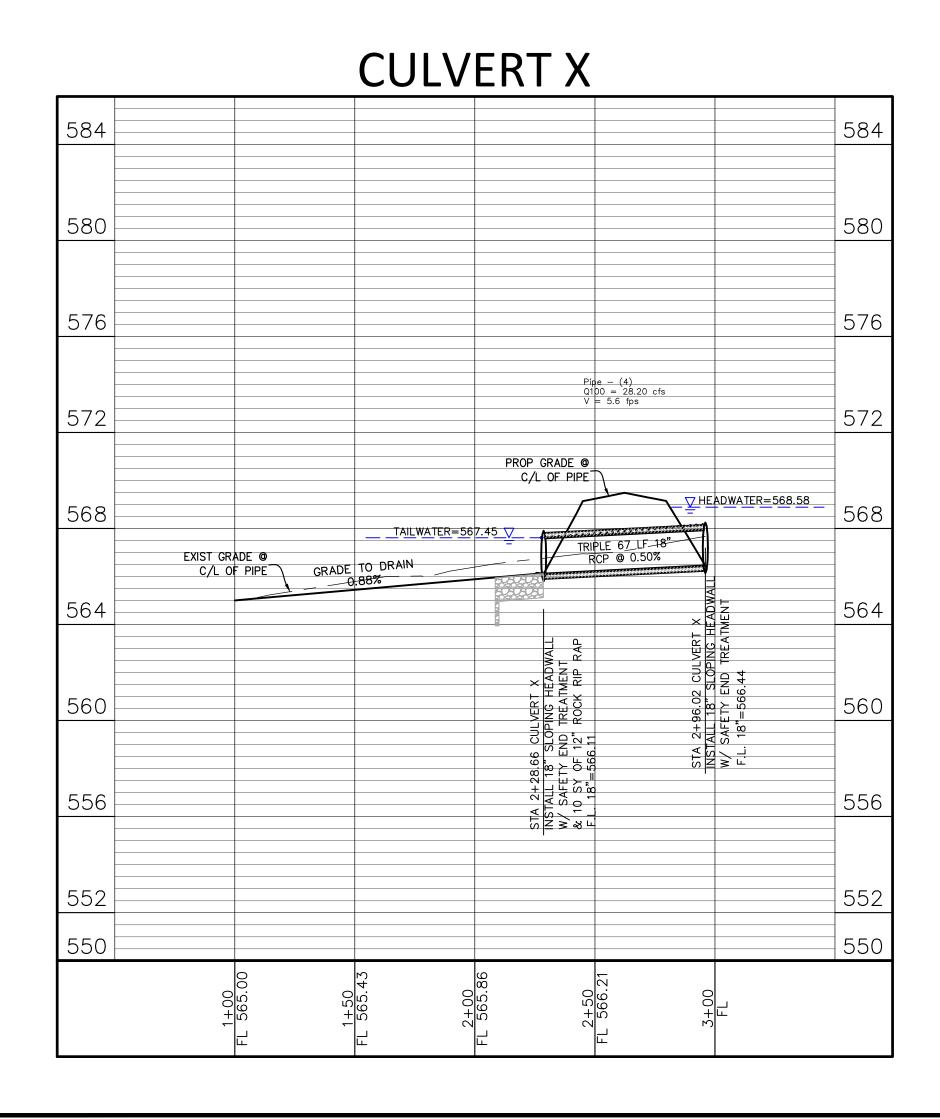




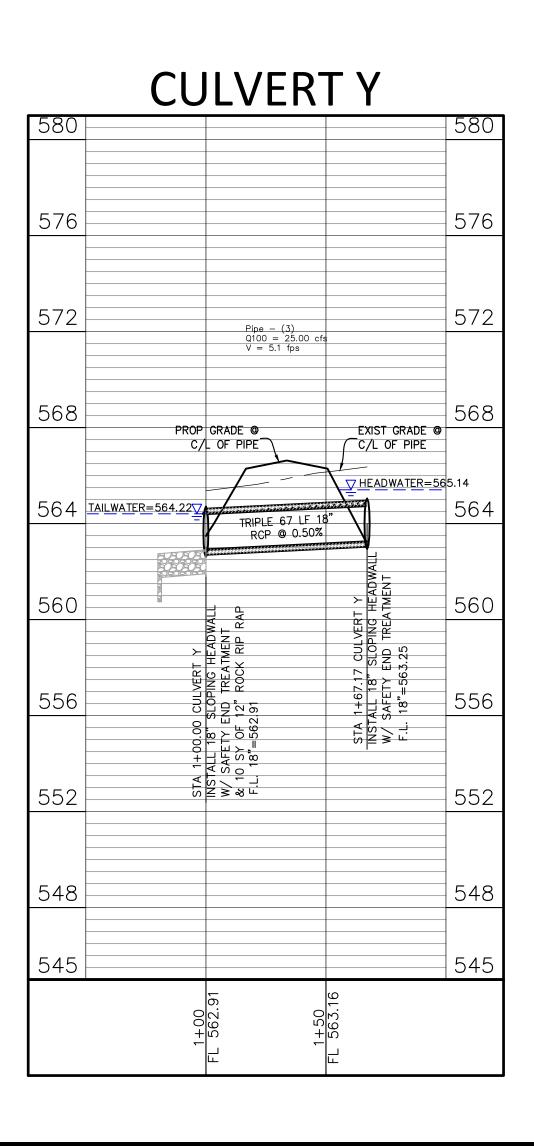
il 3d projects/wla - warner land advisors/wla501 - homestead at stinson highland/jvc plans/dwg/sheets/construction plans/wla501 - proposed dam.dwg







il 3d projects\wla - warner land advisors\wla501 - homestead at stinson highland\jvc plans\dwg\sheets\construction plans\wla501 - storm.dwg



BENCHMARKS

"X" FOUND IN THE CONCRETE PAVING OF STINSON ROAD APPROXIMATELY 1,160' NORTH OF THE CENTERLINE INTERSECTION OF STINSON ROAD AND SHILOH DRIVE. THE MONUMENT IS LOCATED APPROXIMATELY 73' NORTHEAST OF A POWER POLE AND 115' SOUTHEAST OF A WATER MANHOLE STRUCTURE. ELEVATION = 587.11'

SQUARE CUT ON NORTHWEST CORNER OF WYE INLET LOCATED AT THE SOUTHWEST CORNER OF STINSON ROAD AND HIGHLAND DRIVE. ELEVATION = 589.40'

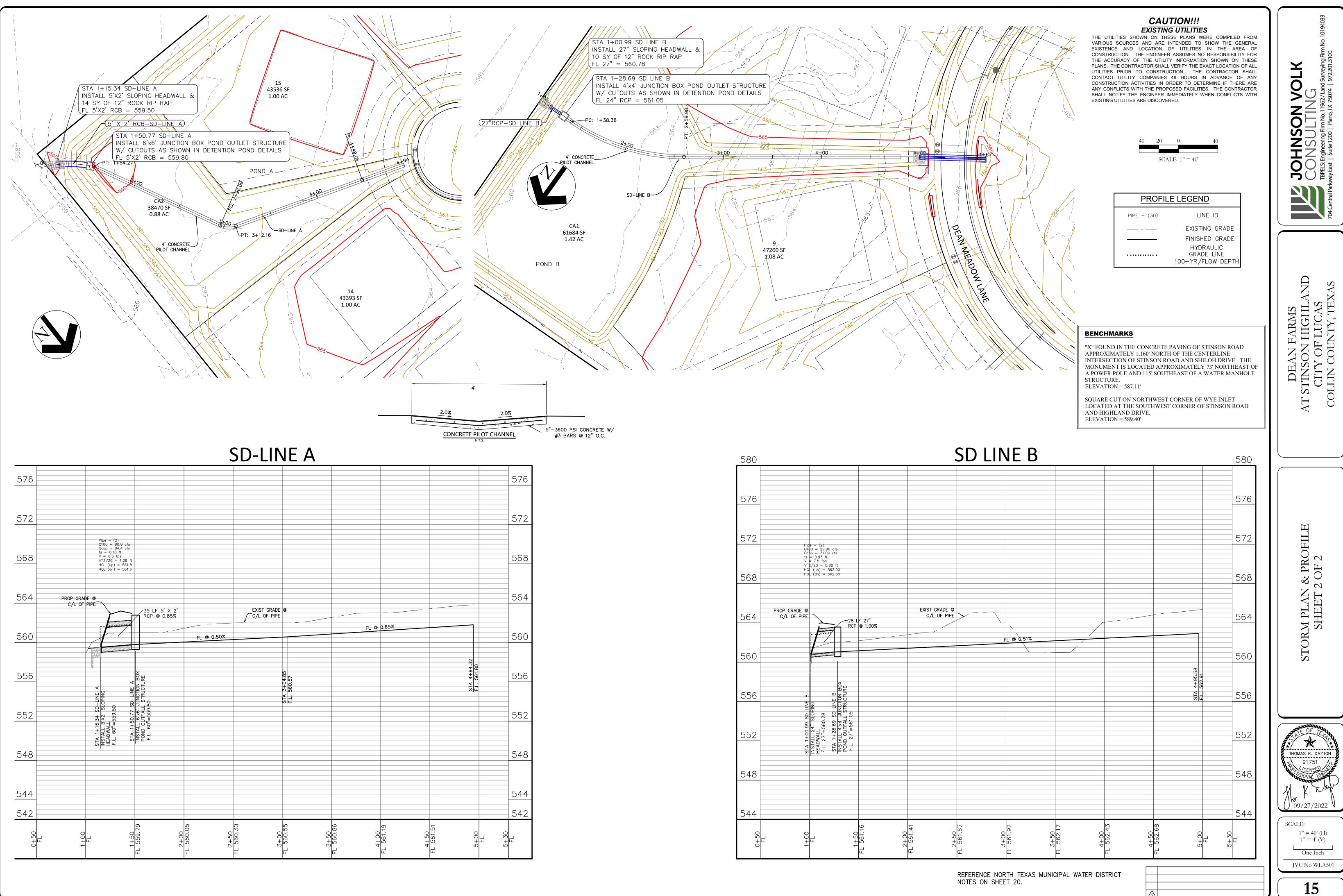
REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON SHEET 20.

THOMAS K. DAYTON 91751 91751 920 91751
SCALE: 1" = 40' (H) 1" = 4' (V) One Inch JVC No WLA501
14

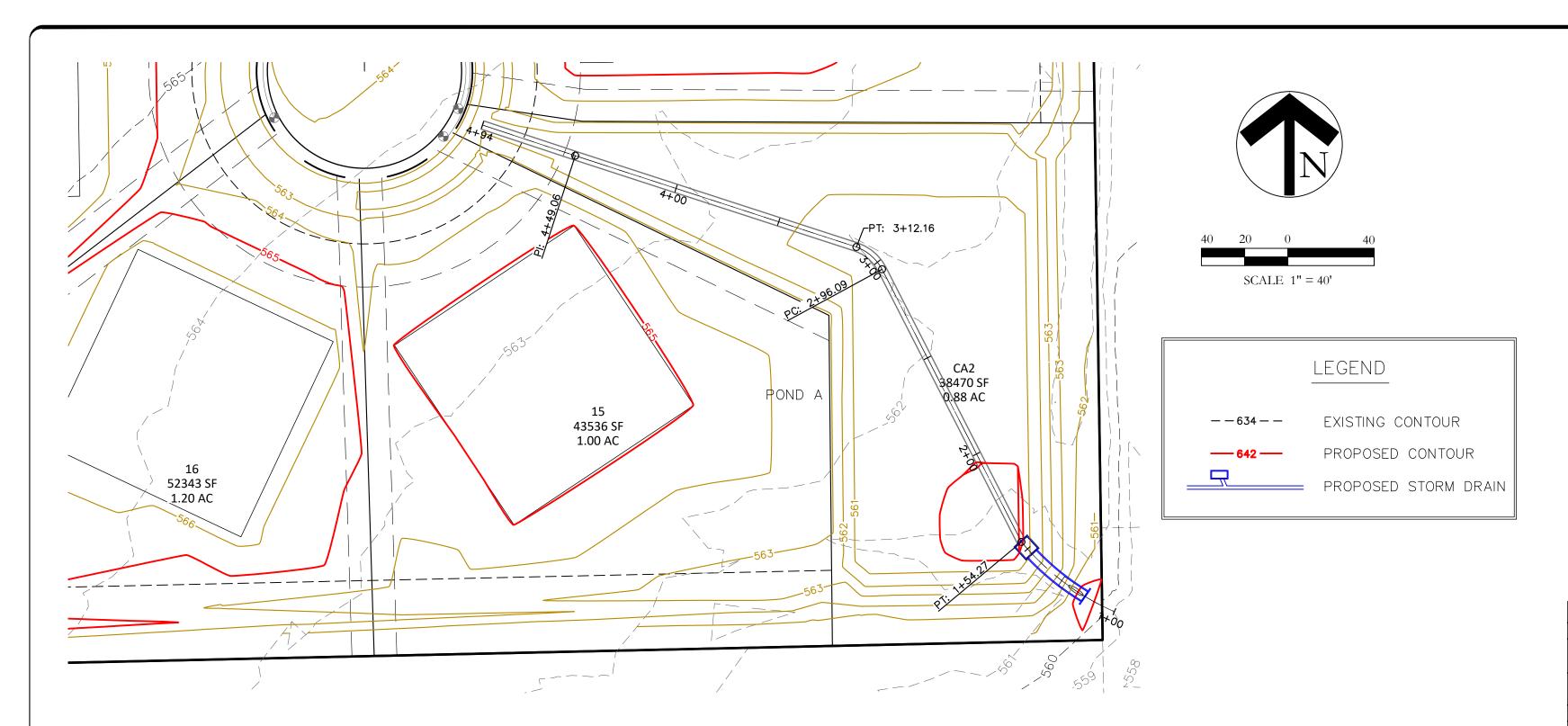
μ

1 & PROFIL 1 OF 2

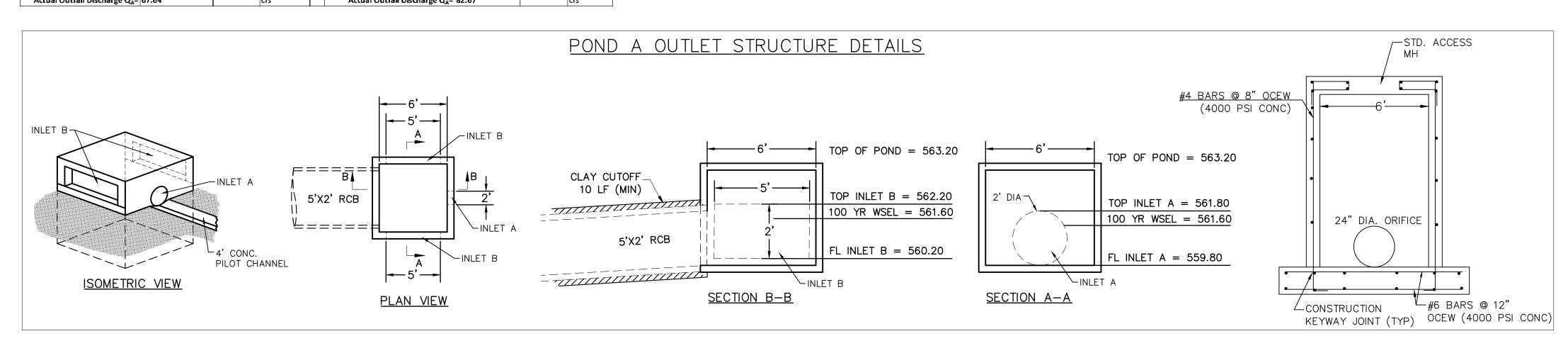
STORM PLAN & SHEET 1



3d projects\wla - warner land advisors\wla501 - homestead at stinson highland\jvc plans\dwg\sheets\construction plans\wla501 - storm.dw



					DETENTION	N POND "A	" 2 YEAR VO	OLUME CO	MPUTATIO	N-MODIFIED	RATIONAL	METHOD		A-2 15	0.55	6.44	8.77	4.82	31.1		A-2 15	0.55 0.55	7.84 7.84	8.77 1.5 9	4.82 0.87	37.8 6.9	
	ΔΕΤΕΝΤΙΩΝ ΡΩΝΟ "Δ" ΟΠΤ	FALL ORIFICE & WEIR SIZING		Td	Тс			Α	Q	Vin	Vout	Vreq V	eq	A-3 15	0.55	6.44	1.59	0.87	5.6 7.8		Δ-Δ 15	0.55	7.84	2.19	1.20	9.4	
	STORM EVENT	10-YEAR STORM EVE	fent	(min)	(min)	С	(in/hr)	(acre)	(cfs)	(cf)	(cf)	(cf) (ac			0.55	6.44	2.19	1.20 13.66	7.8 88.0		TOTAL DETAINED	0.55	7.04	31.87).4 107.1	
The required storage for 2-year(CF)		The required storage for 10-year(CF)	= 16,318.28	10	15	0.43	4.76	31.87	65.0	39,025.81	31,614.32	7,411.49 0	17	TOTAL DETAINED			31.87	10/00	88.0	·		DEVELO	PED DETENTION P			107.1	
2 year water surface elevation (ft)	= 561.18	10 year water surface elevation (ft)	= 561.35	15	15	0.43	3.95	31.87	54.0	48,577.30	37,937.18	10,640.12 0			DEVELOPE	D DETENTION P	OND BYPASS D	DISCHARGE						A A		0	
Max Flow rate allowable, $Q_M = 42.2$	1 1	Max Flow rate allowable, $Q_M = 58.69$		20	15	0.43	3.44	31.87	47.0	56,353.88	44,260.05	,	28	DRAINAGE TC	С	I ₂₅	A	CA	Q ₂₅		DRAINAGE TC	С	100	A (1.111)	CA	Q ₁₀₀	
Inlet A 24" Diameter Circle		Inlet A 24" Diameter Circle		25		0.43	3.05	31.87	41.7	62,494.75	50,582.91	,	27	AREA (min)	-	(in/hr)	(acre)	(acre)	(cfs)		AREA (min)		(in/hr)	(acre)	(acre)	(cfs)	
			0. 51/2-101/2	30	15	0.43	2.75	31.87	37.6	67,636.42	56,905.77	,	25														
Sizing discharger regulator, orifice	Q=CA(2gH) ^{1/2}	Sizing discharger regulator, orifice	Q=CA(2gH) ^{1/2}	35	15	0.43	2.51	31.87	34.3	72,060.98	63,228.64	,	20	TOTAL BYPASS			0.00	0.00	0.00		TOTAL BYPASS			0.00	0.00	0.00	
Orifice C= 0.67		Orifice C= 0.67 Elev.(ft)= 559.80		40	15	0.43	2.31	31.87	31.6	75,947.42	69,551.50	6,395.92 0															
Elev.(ft)= 559.80 Pipe Dia(ft)= 2.00		Pipe Dia(ft)= 2.00		45	15	0.43	2.15	31.87	29.4	79,415.92	75,874.37	3,541.55 0		DETENTIO	N POND "A" 2	25 YEAR ALL		RELEASE CO	MPUTATION	N II	DETENTIO	N POND "A"	100 YEAR AL	LOWABLE RI	ELEASE COMI	UTATION	
Area(sf)= 3.141592654		Area(sf)= 3.141592654		50	15	0.43	2.01	31.87	27.5	82,550.82	82,197.23	353.59 0				PEAK IN							PEAK IN	IFLOW			
g(ft/s) 32.2		g(ft/s) 32.2			15	0.45	2.01	51.07	27.5		VE REQUIRED:	12,093.84 CF				Tc (min)	1 (in/hr)		A (acre)	Q (cfs)			Tc (min)	L(in/br)	C A	(acre)	Q (cfs)
D(ft) = 1.38		D(ft) = 1.55									VIE REQUIRED:	447.92 CY				15.00	6.44	0.43	31.87	88.0			15.00	7.84			107.1
										VOLUME PRO		1,390.62 CY				PRE DEVELOPEI		0.45	51.67	0.00			PRE DEVELOPEI				
Q= 10.47		Q= 12.56								VOLUIVIE PRC		1,390.02 C1							A ()	0 (-f-)			Tc (min)	l (in/hr)	<u>с</u> А	(acre)	Q (cfs)
Inlet B 10'x2' Rectangle		Inlet B 10'x2' Rectangle		[Tc (min)	l (in/hr)		A (acre)	Q (cfs)			15.00	7.84			83.7
Sizing discharger regulator, weir	0=CLH ^{3/2}	Sizing discharger regulator, orifice	$Q=CA(2gH)^{1/2}$		DETENTION	I POND "A'	" 10 YEAR V	OLUME CO	MPUTATIO	N-MODIFIED	RATIONAL	METHOD				15.00	6.44	0.35	30.49	68.7			DETENTION P		0.00	50.45	03.7
Elev.(ft)= 560.20	ft	Elev.(ft)= 560.20		Td	Тс			Α	Q	Vin	Vout	Vreq V	eq			DETENTION P									C A	(apro)	
H(ft) = 0.98	ft	H(ft) = 1.15		(min)	(min)	C	(in/hr)	(acre)	(cfs)	(cf)	(cf)		e-ft)			Tc (min)	1 (in/hr)	C	A (acre)	Q (cfs)			Tc (min) 15.00	l (in/hr) 7.84		(acre) 0.00	Q (cfs) 0.0
C= 3.00		Area (sf)= 20.00		10	15	0.43	6.65	31.87	90.9	54,521.36	44,019.94	10,501.42 0	24			15.00	6.44	0.00	0.00	0.0			12.00	7.84	0.00	0.00	
L (ft)= 10.00		L (ft)= 10.00		15	15	0.43	5.50	31.87	75.2	67,639.28	52,823.93	14,815.35 0	34	EXISTING UNDETAINED DISC						68.7	EXISTING UNDETAINED DI						83.7
				20	15	0.43	4.75	31.87	65.0	77,946.19	61,627.91	16,318.28 0	3/	DEVELOPED DETENTION PO						0.0	DEVELOPED DETENTION P						0.0
Q= 29.10	cfs	Q= 42.07	cfs	25	15	0.43	4.22	31.87	57.7	86,505.41	70,431.90	16,073.51 0	37	MAX ALLOWABLE RELEASE I	RATE FROM DETEN	NTION POND				68.7	MAX ALLOWABLE RELEASE	E RATE FROM DE	TENTION POND				83.7
Actual Outfall Discharge Q _A = 39.5	.57 cfs	Actual Outfall Discharge Q _A = 54.64	cfs	30	15	0.43	3.81	31.87	52.1	93,727.12	79,235.89	14,491.23 0	33														
				35	15	0.43	3.48	31.87	47.6	99,987.16	88,039.88	11,947.28 0	27														
25-YEAR	R STORM EVENT	100-YEAR STORM EV	VENT	40	15	0.43	3.22	31.87	44.0	105,523.37	96,843.86	8,679.51 0										I –					
The required storage for 25-year(CF	,	The required storage for 100-year(CF)	= 22,389.32							MAX VOLUN	ME REQUIRED:	16,318.28 CF										C	DETENTION		OLUME CO	MPUTATIO	DN
25 year water surface elevation (ft)) = 561.45	100 year water surface elevation (ft)	= 561.60							MAX VOLUN	VIE REQUIRED:	604.38 CY										CONTOUR	CONTOUR	NCREMENTAL	т	OTAL VOLUMI	_
Max Flow rate, Q(CFS) = 68.7	3.7 cfs	Max Flow rate, Q(CFS) = 83.66	cfs							VOLUME PRO	OVIDED (3 FT):	1,390.62 CY										ELEV	AREA	VOLUME	1		-
Inlet A 24" Diameter Circle		Inlet A 24" Diameter Circle												C	DETENTION P	OND "A" 10)0 YEAR DE	SIGN-MOD	IFIED RATION	NAL METHO	D	(ft)	(sf)	(cf)	(cf)	(cy)	(acre-ft)
Sizing discharger regulator, orifice	Q=CA(2gH) ^{1/2}	Sizing discharger regulator, orifice	Q=CA(2gH) ^{1/2}		DETENTIO							MAETHOD		Td Tc	-	I	Α	Q	Vin	Vout	Vreq Vreq	560.00	1,429.07	-	-	-	0.00
Orifice C= 0.67		Orifice C= 0.67			DETENTION	N POND "A	1" 25 YEAR \		DIMPUTATIO	ON-MODIFIED	J RATIONAL	LIMETHOD		(min) (min)	C	(in/hr)	(acre)	(cfs)	(cf)	(cf)	(cf) (acre-ft)	560.50	10,723.30	3,038.09	3,038.09	112.52	0.00
Elev.(ft)= 559.80		Elev.(ft)= 559.80		Td	Тс	C	I	Α	Q	Vin	Vout	Vreq	/req	10 15	0.43	9.53	31.87	130.2	78,133.61	62,748.42	15,385.19 0.35				-		0.07
Pipe Dia(ft)= 2.00		Pipe Dia(ft)= 2.00		(min)	(min)		(in/hr)	(acre)	(cfs)	(cf)	(cf)	(cf) (a	cre-ft)	15 15	0.43	7.84	31.87	107.1	96,416.71	-	21,118.61 0.48	561.50	23,202.40	16,962.85	20,000.94	740.78	0.46
Area(sf)= 3.141592654		Area(sf)= 3.141592654		10	15	0.43	7.80	31.87	106.6	63,949.86	51,543.35	12,406.52	0.28	20 15	0.43	6.72	31.87	91.9	110,237.11	-	22,389.32 0.51	562.20	26,928.63	17,545.86	37,546.80	1,390.62	0.86
g(ft/s) 32.2		g(ft/s) 32.2		15	15	0.43	6.44	31.87	88.0	79,199.44	61,852.01	17,347.43	0.40	25 15	0.43	5.97	31.87	81.6	122,426.77		22,029.30 0.51	563.20	9,750.91	18,339.77	38,340.71	1,420.03	0.88
D(ft)= 1.65		D(ft)= 1.80		20	15	0.43	5.55	31.87	75.8	90,963.23	72,160.68	18,802.55	0.43	30 15	0.43	5.40	31.87	73.8	132,817.92		19,870.76 0.46						
0-12.64		0-15.06		25	15	0.43	4.93	31.87	67.3	100,970.00	82,469.35	18,500.65).42	35 15	0.43	4.95	31.87	67.6	, 141,912.32		, 16,415.48 0.38	Dry Pond Ele	vation:			560.00	ft
Q= 13.64 Inlet B 10'x2' Rectangle		Q= 15.06 Inlet B 10'x2' Rectangle		30	15	0.43	4.45	31.87	60.8	109,442.61	92,778.02	16,664.59	0.38	40 15	0.43	4.57	31.87	62.5	150,026.42		11,979.90 0.28	100 yr WSE:				561.60	ft
	<u> </u>		0.64/2-101/2	35	15	0.43	4.07	31.87	55.6	116,811.32	103,086.69	13,724.63	0.32	45 15	0.43	4.27	31.87	58.3	157,372.47		6,776.26 0.16	25 yr WSE:				561.45	ft
Sizing discharger regulator, orifice	Q=CA(2gH) ^{1/2}	Sizing discharger regulator, orifice	Q=CA(2gH) ^{1/2}	40	15	0.43	3.76	31.87	51.4	123,348.04	113,395.36	9,952.68).23	50 15	0.43	4.00	31.87	54.7		163,145.89	953.80 0.02	10 yr WSE:				561.35	н н
Elev.(ft) = 560.20		Elev.(ft)= 560.20								MAX VOLU	JME REQUIRED:	18,802.55 CF								JME REQUIRED:	22,389.32 CF						н 6
H (ft)= 1.25		H(ft) = 1.40								MAX VOLU	JME REQUIRED:	696.39 CY								JME REQUIRED:	829.23 CY	2 yr WSE:				561.18	π
Area (sf)= 20.00 L (ft)= 10.00		Area (sf)= 20.00 L (ft)= 10.00								VOLUME PF	ROVIDED (3 FT):	1,390.62 CY								ROVIDED (3 FT):	1,390.62 CY	Pond Top:				563.20	ft
																						Freeboard 10	30 yr:			1.60	ft
Q= 54.00	cfs	Q= 67.61	cfs																								
Actual Outfall Discharge $Q_A = 67.6$	64 of s	Actual Outfall Discharge Q _A = 82.67	cis																								
		Actual Outlan Obularge QA- 02.07																									



"A" 2 YEAR VOLUME COMPUTATION-MODIFIED RATIONAL METHOD	
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[DETE		ND "A" 2 YE			TATION			DETE		ND "A" 10 Y			TATION	
DRAINAGE	Тс	E	l ₂	AINED DISCHAR	CA	Q2		DRAINAGE	Тс			A	CA	Q ₁₀	
AREA	(min)	С	ء (in/hr)	(acre)	(acre)	(cfs)	DRAINS TO	AREA	(min)	C	(in/hr)	(acre)	(acre)	(cfs)	DRAINS TO
EX-A	15	0.35	3.95	30.49	10.67	42.2		EX-A	15	0.35	5.50	30.49	10.67	58.7	
TOTAL				30.49	10.67	42.2		TOTAL				30.49	10.67	58.7	
		D	EVELOPED DET	AINED DISCHAR						[DEVELOPED DET	AINED DISCHAR			
DRAINAGE	Tc	с	l ₂	A	CA	Q ₂		DRAINAGE	TC	с	۱ ₁₀	A	CA	Q ₁₀	
AREA	(min)		(in/hr)	(acre)	(acre)	(cfs)		AREA	(min)		(in/hr)	(acre)	(acre)	(cfs)	
A-1 A-2	15 15	0.35 0.55	3.95 3.95	19.32 8.77	6.76 4.82	26.7 19.1		A-1 A-2	15 15	0.35 0.55	5.50 5.50	19.32 8.77	6.76 4.82	37.2 26.5	
A-2 A-3	15	0.55	3.95	8.77 1.59	4.82 0.87	3.5		A-2 A-3	15	0.55	5.50	1.59	4.82 0.87	4.8	
A-4	15	0.55	3.95	2.19	1.20	4.8		A-4	15	0.55	5.50	2.19	1.20	6.6	
TOTAL DETAIN	IED			31.87	13.66	54.0		TOTAL DETAINE	ED			31.87	13.66	75.2	
		DEVELOP	ED DETENTION	POND BYPASS D	ISCHARGE					DEVELOF	PED DETENTION	POND BYPASS	DISCHARGE		
DRAINAGE	Tc	с	l _z	А	CA	Qz		DRAINAGE	Тс	с	۱ ₁₀	А	CA	Q ₁₀	
AREA	(min)	<u>ر</u>	(in/hr)	(acre)	(acre)	(cfs)		AREA	(min)	ر ب	(in/hr)	(acre)	(acre)	(cfs)	
TOTAL BYPASS				0.00	0.00	0.00		TOTAL BYPASS				0.00	0.00	0.00	
				0.00	0.00	0.00									
D	DETENTION	I POND "A"	2 YEAR ALL		ELEASE CO	OMPUTATIC)N	DE	TENTION	POND "A"	10 YEAR AL		RELEASE CO	OMPUTATIO	ON
			Tc (min)	NFLOW I (in/hr)	С	A (acre)	Q (cfs)				Tc (min)	INFLOW L (in/hr)	c	A (acre)	Q (cfs)
			15.00	3.95	0.43	A (acre) 31.87	Q (crs) 54.0				15.00	5.50	0.43	31.87	75.2
				ED CONDITIONS		51.07	5 7.0					ED CONDITIONS			
			Tc (min)	l (in/hr)	С	A (acre)	Q (cfs)				Tc (min)	l (in/hr)	С	A (acre)	Q (cfs)
			15.00	3.95	0.35	30.49	42.2				15.00	5.50	0.35	30.49	58.7
			DETENTION	POND BYPASS							DETENTION	POND BYPASS			
			Tc (min)	E(in/hr)	С	A (acre)	Q (cfs)				Tc (min)	E(in/hr)	C	A (acre)	Q (cfs)
			15.00	3.95	0.00	0.00	0.0				15.00	5.50	0.00	0.00	0.0
EXISTING UNDE							42.2	EXISTING UNDE							58.7
		ND BYPASS DISC ATE FROM DET					0.0 42.2	DEVELOPED DE MAX ALLOWAB							0.0 58.7
	DLE KELEASE K		ENTION POIND				42.2		LE NELEAJE N		ENHON FOND				30.7
	DETE	NTION POR	ND "A" 25 Y	EAR RUNOF	F COMPU	TATION			DETE	NTION POP	ND "A" 100 Y	YEAR RUNO	FF COMPL	JTATION	
		E	XISTING UNDET	AINED DISCHAR	GE						EXISTING UNDE	FAINED DISCHA	RGE		
DRAINAGE	Tc	<u> </u>	I ₂₅	Α	CA	Q ₂₅	DRAINS TO	DRAINAGE	Тc	с	I ₁₀₀	A	CA	Q ₁₀₀	DRAINS T
AREA	(min)	C	(in/hr)	(acre)	(acre)	(cfs)	DRAINS TO	AREA	(min)		(in/hr)	(acre)	(acre)	(cfs)	Dibanto i
EX-A	15	0.35	6.44	30.49	10.67	68.7		EX-A	15	0.35	7.84	30.49	10.67	83.7	
TOTAL				30.49	10.67	68.7		TOTAL				30.49	10.67	83.7	
			DEVELOPED DET	-				DRAINAGE	Тс		DEVELOPED DET		CA		
DRAINAGE	Tc (min)	с	ا ₂₅	A (=)	CA	Q ₂₅		AREA	(min)	С	ا ₁₀₀ (in/hr)	A (acre)	(acre)	Q ₁₀₀ (cfs)	
AREA	(min)	0.35	(in/hr)	(acre)	(acre)	(cfs)		A-1	15	0.35	7.84	19.32	6.76	53.0	
A-1 A-2	15 15	0.35 0.55	6.44 6.44	19.32 8.77	6.76 4.82	43.5 3 1 .1		A-1 A-2	15	0.55	7.84	8.77	4.82	37.8	
A-2 A-3	15	0.55	6.44	1.59	4.82 0.87	5.6		A-3	15	0.55	7.84	1.59	0.87	6.9	
A-4	15	0.55	6.44	2.19	1.20	7.8		A-4	15	0.55	7.84	2.19	1.20	9.4	
OTAL DETAINE	ED			31.87	13.66	88.0		TOTAL DETAIN	ED			31.87	13.66	107.1	
		DEVELOP	PED DETENTION	POND BYPASS						DEVELO	PED DETENTION				
	Tc (min)	с	₂₅ (in (ha)	A	CA (acro)	Q ₂₅		DRAINAGE AREA	Tc (min)	с	l ₁₀₀ (in/hr)	A (acre)	CA (acre)	Q ₁₀₀ (cfs)	
AREA	(min)		(in/hr)	(acre)	(acre)	(cfs)					(00/01)	laciel	facies	(03)	
OTAL BYPASS				0.00	0.00	0.00		TOTAL BYPASS				0.00	0.00	0.00	
D	ETENTION	POND "A"	25 YEAR AL		RELEASE C	OMPUTATI	ON	DE	TENTION	POND "A"	100 YEAR A	LLOWABLE	RELEASE (ION
	/			INFLOW							PEAK	INFLOW			
			Tc (min)	t (in/hr)	C	A (acre)	Q (cfs)				Tc (min)	l (in/hr)	С	A (acre)	Q (cfs)
			15.00	6.44	0.43	31.87	88.0	┨┝────			15.00	7.84	0.43	31.87	107.1
				ED CONDITIONS				┨┝────				ED CONDITION:		• <i>I</i> •	~ * * *
			Tc (min)	l (in/hr)	C	A (acre)	Q (cfs)				Tc (min) 15.00	l (in/hr) 7 94	C 0.25	A (acre)	Q (cfs)
			15.00	6.44	0.35	30.49	68.7	┨┝────			15.00	7.84	0.35	30.49	83.7
				POND BYPASS		A 1 1	0.45	┨╞────			Tc (min)	I (in/hr)	с	A (acre)	Q (cfs)
			Tc (min) 15.00	l (in/hr) 6.44	C	A (acre) 0.00	Q (cfs) 0.0				15.00	7.84	0.00	A (acre) 0.00	0.0
	ETAINED DISCI		15.00	6.44	0.00	0.00	68.7		ETAINED DISC	HARGE	10.00	7.0 4	5.00	0.00	83.7
XIVING TRUCE							0.0	DEVELOPED DE			CHARGE				0.0
EVELOPED DE	TENTION PON	ID BYPASS DISC	HAKUE												

	ATION			ID "A" 10 YE		DETER			ATION			ND "A" 2 YE		DETE	
	Q ₁₀	CA			E.	Tc	DRAINAGE		Q2	CA			E/	Тс	DRAINAGE
DRAINS TO	(cfs)	(acre)	(acre)	(in/hr)	¢	(min)	AREA	DRAINS TO	(cfs)	(acre)	(acre)	(in/hr)	C	(min)	AREA
	58.7	10.67	30.49	5.50	0.35	15	EX-A		42.2	10.67	30.49	3.95	0.35	15	EX-A
	58.7	10.67	30.49				TOTAL		42.2	10.67	30.49	EVELOPED DETA			TOTAL
	Q ₁₀	CA	A	EVELOPED DET	L	Тс	DRAINAGE		Q2	CA	AINED DISCHAR	EVELOPED DETA	וט	Тс	DRAINAGE
	(cfs)	(acre)	(acre)	ا (in/hr)	C	(min)	AREA		(cfs)	(acre)	(acre)	י (in/hr)	С	(min)	AREA
	37.2	6.76	19.32	5.50	0.35	15	A-1		26.7	6.76	19.32	3.95	0.35	15	A-1
	26.5	4.82	8.77	5.50	0.55	15	A-2		19.1	4.82	8.77	3.95	0.55	15	A-2
	4.8	0.87	1.59	5.50	0.55	15	A-3		3.5	0.87	1.59	3.95	0.55	15	A-3
	6.6 75.2	1.20 13.66	2.19 31.87	5.50	0.55	15 D	A-4 TOTAL DETAINE		4.8 54.0	1.20 13.66	2.19 31.87	3.95	0.55	15 D	A-4 OTAL DETAIN
	73.2			ED DETENTION	DEVELOP		TOTAL DETAIL		J4.0			ED DETENTION	DEVELOPE		
	Q ₁₀	CA	A	۱ ₁₀		Тс	DRAINAGE		Qz	CA	А	I ₂	<u> </u>	Tc	DRAINAGE
	(cfs)	(acre)	(acre)	(in/hr)	C	(min)	AREA		(cfs)	(acre)	(acre)	(in/hr)	С	(min)	AREA
	0.00	0.00	0.00												
	0.00	0.00	0.00				TOTAL BYPASS		0.00	0.00	0.00				OTAL BYPASS
N	ΟΜΡυτατιο	ELEASE CC	LOWABLE R	10 YEAR AL	POND "A"	TENTION	DE	N	ΜΡυτατιο	ELEASE CO	OWABLE R	2 YEAR ALL	POND "A"	ETENTION	D
				PEAK I								PEAK II			
Q (cfs) 75.2	A (acre) 31.87	C 0.43	l (in/hr) 5.50	Tc (min) 15.00				Q (cfs) 54.0	A (acre) 31.87	C 0.43	⊺(in/hr) 3.95	Tc (min) 15.00			
15.2	31.07	0.43		PRE DEVELOPE				54.U	51.0/			PRE DEVELOPE			
Q (cfs)	A (acre)	С	l (in/hr)	Tc (min)				Q (cfs)	A (acre)	С	l (in/hr)	Tc (min)			
58.7	30.49	0.35	5.50	15.00				42.2	30.49	0.35	3. 9 5	15.00			
			POND BYPASS								POND BYPASS				
Q (cfs) 0.0	A (acre) 0.00	C 0.00	∣(in/hr) 5.50	Tc (min) 15.00				Q (cfs) 0.0	A (acre) 0.00	C 0.00	⊺(in/hr) 3.95	Tc (min) 15.00			
58.7	0.00	0.00	3.30	10.00	IARGE	TAINED DISCH	EXISTING UNDE	42.2	0.00	0.00	2.23	15.00	HARGE	TAINED DISC	XISTING UNDE
0.0				HARGE	D BYPASS DISC	FENTION PON	DEVELOPED DET	0.0				HARGE	D BYPASS DISC	TENTION PON	EVELOPED DE
58.7				ENTION POND	TE FROM DET	LE RELEASE RA	MAX ALLOWAB	42.2				ENTION POND	ATE FROM DETE	LE RELEASE R	AAX ALLOWAE
	TATION	FF COMPU	EAR RUNO	ID "A" 100 Y		DETEN			ΓΔΤΙΩΝ			ID "A" 25 YE		DETE	
				XISTING UNDET								XISTING UNDET/			
DRAINS	Q ₁₀₀	CA	Α	I ₁₀₀	с	Тс	DRAINAGE		Q ₂₅	CA	A	I ₂₅		Tc	DRAINAGE
	(cfs)	(acre)	(acre)	(in/hr)		(min)	AREA	DRAINS TO	(cfs)	(acre)	(acre)	(in/hr)	С	(min)	AREA
	83.7 83.7	10.67 10.67	30.49 30.49	7.84	0.35	15	EX-A TOTAL		68.7	10.67	30.49	6.44	0.35	15	EX-A
	03.7			DEVELOPED DET					68.7	10.67	30.49	EVELOPED DET/	D		TOTAL
	Q ₁₀₀	CA	Α	I ₁₀₀		Тс	DRAINAGE		Q ₂₅	CA	A	l ₂₅		Tc	DRAINAGE
	(cfs)	(acre)	(acre)	(in/hr)	C	(min)	AREA		(cfs)	(acre)	(acre)	(in/hr)	C	(min)	AREA
	53.0	6.76	19.32	7.84	0.35	15	A-1		43.5	6.76	19.32	6.44	0.35	15	A-1
	37.8	4.82	8.77	7.84	0.55	15	A-2		31.1	4.82	8.77	6.44	0.55	15	A-2
	6.9 9.4	0.87 1.20	1.59 2.19	7.84 7.84	0.55 0.55	15 15	A-3 A-4		5.6 7.8	0.87	1.59 2.19	6.44 6.44	0.55	15 15	A-3
	107.1	13.66	31.87	7101	0.00				88.0	1.20 1 3.66	31.87	0.44	0.55		A-4 OTAL DETAINE
		DISCHARGE	POND BYPASS I	PED DETENTION	DEVELO		-					ED DETENTION	DEVELOPI	-	
	Q ₁₀₀	CA	A	I ₁₀₀	с	Tc	DRAINAGE		Q ₂₅	CA	A	I ₂₅	с	Tc	DRAINAGE
	(cfs)	(acre)	(acre)	(in/hr)	-	(min)	AREA		(cfs)	(acre)	(acre)	(in/hr)	Ļ	(min)	AREA
	0.00	0.00	0.00				TOTAL BYPASS		0.00	0.00	0.00				OTAL BYPASS
]								
UN	OMPUTATI	KELEASE C	NFLOW		PUND "A"	TENTION		ON	OMPUTATIO	RELEASE CO		25 YEAR AL	POND "A"	ETENTION	D
Q (cfs)	A (acre)	с	l (in/hr)	Tc (min)			-	Q (cfs)	A (acre)	C	NFLOW	Tc (min)			
107.1	31.87	0.43	7.84	15.00				88.0	31.87	0.43	l (in/hr) 6.44	15.00			
			ED CONDITIONS	PRE DEVELOP								PRE DEVELOPE			
Q (cfs)	A (acre)	C	l (in/hr)	Tc (min)				Q (cfs)	A (acre)	С	l (in/hr)	Tc (min)			
83.7	30.49	0.35	7.84 POND BYPASS	15.00				68.7	30.49	0.35	6.44	15.00			
	A (acre)	с	I (in/hr)	Tc (min)			┨┝────	0 (afa)	Alamat		POND BYPASS				
D (cfc)	n (acie)			15.00				Q (cfs) 0.0	A (acre) 0.00	C 0.00	l (in/hr) 6.44	Tc (min) 15.00			
Q (cfs) 0.0	0.00	0.00	7.84	12.00					0,00		~	20.00			
	0.00	0.00	7.84	15.00	IARGE	TAINED DISCH	EXISTING UNDE	68.7					HARGE	TAINED DISCH	RISTING UNDE
	0.00	0.00	7.84	HARGE	D BYPASS DISC	TENTION PON	EXISTING UNDE DEVELOPED DE MAX ALLOWAB					HARGE	HARGE ID BYPASS DISCH		

	DETE			AR RUNOF		ΓΑΤΙΟΝ			DETE		ND "A" 10 Y			TATION	
DRAINAGE	Tc	с	lz	А	CA	Q2	DRAINS TO	DRAINAGE	Tc	с	۱ ₁₀	Α	CA	Q ₁₀	DRAINS TO
AREA	(min)		(in/hr)	(acre)	(acre)	(cfs)	DRAINS TO	AREA	(min)		(in/hr)	(acre)	(acre)	(cfs)	DIVATING TO
EX-A TOTAL	15	0.35	3.95	30.49 30.49	10.67 10.67	42.2 42.2		EX-A TOTAL	15	0.35	5.50	30.49 30.49	10.67 10.67	58.7 58.7	
TOTAL		C	EVELOPED DET	AINED DISCHAR		42.2		TOTAL			DEVELOPED DET			2017	
DRAINAGE	Tc		l ₂	Α	CA	Q2		DRAINAGE	Tc		۱ ₁₀	Α	CA	Q ₁₀	
AREA	(min)	С	(in/hr)	(acre)	(acre)	(cfs)		AREA	(min)	¢	(in/hr)	(acre)	(acre)	(cfs)	
A-1	15	0.35	3.95	19.32	6.76	26.7		A-1	15	0.35	5.50	19.32	6.76	37.2	
A-2 A-3	15 15	0.55 0.55	3.95 3.95	8.77 1.59	4.82 0.87	19.1 3.5		A-2 A-3	15 15	0.55 0.55	5.50 5.50	8.77 1.59	4.82 0.87	26.5 4.8	
A-3 A-4	15	0.55	3.95	2.19	1.20	4.8		A-4	15	0.55	5.50	2.19	1.20	4.8 6.6	
TOTAL DETAIN	ED			31.87	13.66	54.0		TOTAL DETAINE	D			31.87	13.66	75.2	
		DEVELOP	ED DETENTION	POND BYPASS D						DEVELOP	PED DETENTION	POND BYPASS			
DRAINAGE AREA	Tc (min)	с	l ₂	A	CA (acro)			DRAINAGE AREA	Tc (min)	С	₁₀ (in (ha)	A (acro)	CA (acro)	Q ₁₀	
ANEA	(mm)		(in/hr)	(acre)	(acre)	(cfs)		ANEA	(11111)		(in/hr)	(acre)	(acre)	(cfs)	
TOTAL BYPASS				0.00	0.00	0.00		TOTAL BYPASS				0.00	0.00	0.00	
D	ETENTION	I POND "A'	' 2 YEAR AL	LOWABLE R	ELEASE CO		N	DE	TENTION	POND "A"	10 YEAR AL		RELEASE CO		ON
				INFLOW								NFLOW			
			Tc (min)	∣(in/hr)	C	A (acre)	Q (cfs)				Tc (min)	l (in/hr)	C	A (acre)	Q (cfs)
			15.00 PRE DEVELOPI	3.95 ED CONDITIONS	0.43	31.87	54.0				15.00 PRE DEVELOPI	5.50 ED CONDITIONS	0.43	31.87	75.2
			Tc (min)	L (in/hr)	с	A (acre)	Q (cfs)				Tc (min)	L (in/hr)	С	A (acre)	Q (cfs)
			15.00	3.95	0.35	30.49	42.2				15.00	5.50	0.35	30.49	58.7
				POND BYPASS								POND BYPASS			
			Tc (min)	l (in/hr)	C	A (acre)	Q (cfs)				Tc (min) 15.00	⊺(in/hr) 5.50	C 0.00	A (acre) 0.00	Q (cfs) 0.0
XISTING UNDE		HARGE	15.00	3.95	0.00	0.00	0.0	EXISTING UNDE	TAINED DISC	HARGE	15.00	5.50	0.00	0.00	58.7
			HARGE				0.0	DEVELOPED DE			CHARGE				0.0
MAX ALLOWAB	BLE RELEASE R	ATE FROM DET	ENTION POND				42.2	MAX ALLOWAB	LE RELEASE R	ATE FROM DET	ENTION POND				58.7
	DETE		UD "A" 25 V	EAR RUNOF				1	DETE	NTION PON	ND "A" 100 Y	YEAR RUNO	FF COMPL	JTATION	
				AINED DISCHAR				-			EXISTING UNDE				
DRAINAGE	Tc		₂₅	A	CA	Q ₂₅		DRAINAGE	Тс	с	I ₁₀₀	Α	CA	Q ₁₀₀	DRAINS 1
AREA	(min)	С	(in/hr)	(acre)	(acre)	(cfs)	DRAINS TO	AREA	(min)		(in/hr)	(acre)	(acre)	(cfs)	DIVANO
EX-A	15	0.35	6.44	30.49	10.67	68.7		EX-A	15	0.35	7.84	30.49	10.67	83.7	
TOTAL		r		30.49 AINED DISCHAR	10.67	68.7		TOTAL			DEVELOPED DET	30.49 TAINED DISCHAI	10.67 RGF	83.7	
DRAINAGE	Тс	L			CA	Q ₂₅		DRAINAGE	Тс		I ₁₀₀	A	CA	Q ₁₀₀	
AREA	(min)	С	(in/hr)	(acre)	(acre)	(cfs)		AREA	(min)	С	(in/hr)	(acre)	(acre)	(cfs)	
A-1	15	0.35	6.44	19.32	6.76	43.5		A-1	15	0.35	7.84	19.32	6.76	53.0	
A-2	15	0.55	6.44	8.77	4.82	3 1 .1		A-2	15	0.55	7.84	8.77	4.82	37.8	
A-3	15	0.55	6.44	1.59	0.87	5.6		A-3 A-4	15 15	0.55 0.55	7.84 7.84	1.59 2.19	0.87 1.20	6.9 9.4	
A-4 OTAL DETAINE	15	0.55	6.44	2.19 31.87	1.20 13.66	7.8 88.0				0.55	7.04	31.87	1.20 13.66	9.4 107.1	
UTTE DETAINE		DEVELOP	PED DETENTION	POND BYPASS		50.0				DEVELO	PED DETENTION				
DRAINAGE	Tc		I ₂₅	A	CA	Q ₂₅		DRAINAGE	Тс	С	l ₁₀₀	А	CA	Q ₁₀₀	
AREA	(min)	C	(in/hr)	(acre)	(acre)	(cfs)		AREA	(min)	ر ر	(in/hr)	(acre)	(acre)	(cfs)	
OTAL BYPASS				0.00	0.00	0.00		TOTAL BYPASS				0.00	0.00	0.00	
DI	ETENTION	POND "A"			RELEASE C	OMPUTATIO	DN	DE	TENTION	POND "A"	100 YEAR A		RELEASE	COMPUTAT	ION
				INFLOW		x f ¹	010				PEAK Tc (min)	INFLOW I (in/hr)	с	A (acre)	Q (cfs)
			Tc (min) 15.00	l (in/hr) 6.44	C 0.43	A (acre) 31.87	Q (cfs) 88.0				15.00	7.84	0.43	31.87	107.1
				ED CONDITIONS		51.07	50.7					ED CONDITION			
			Tc (min)	l (in/hr)	С	A (acre)	Q (cfs)	1			Tc (min)	l (in/hr)	С	A (acre)	Q (cfs)
			15.00	6.44	0.35	30.49	68.7	┨┝────			15.00	7.84	0.35	30.49	83.7
				POND BYPASS								POND BYPASS	с	A famal	O laf-
			Tc (min) 15.00	l (in/hr) 6.44	C 0.00	A (acre) 0.00	Q (cfs) 0.0				Tc (min) 15.00	l (in/hr) 7.84	0.00	A (acre) 0.00	Q (cfs) 0.0
			12.00	0.44	0.00	0.00				THADCE	19,00		0.00	0.00	83.7
		ARGE					68.7	EXISTING UNDE	TAINED DISC	LIANGE					QQ.,
XISTING UNDE DEVELOPED DE		IARGE D BYPASS DISC	HARGE				68.7 0.0	DEVELOPED DE			CHARGE				0.0

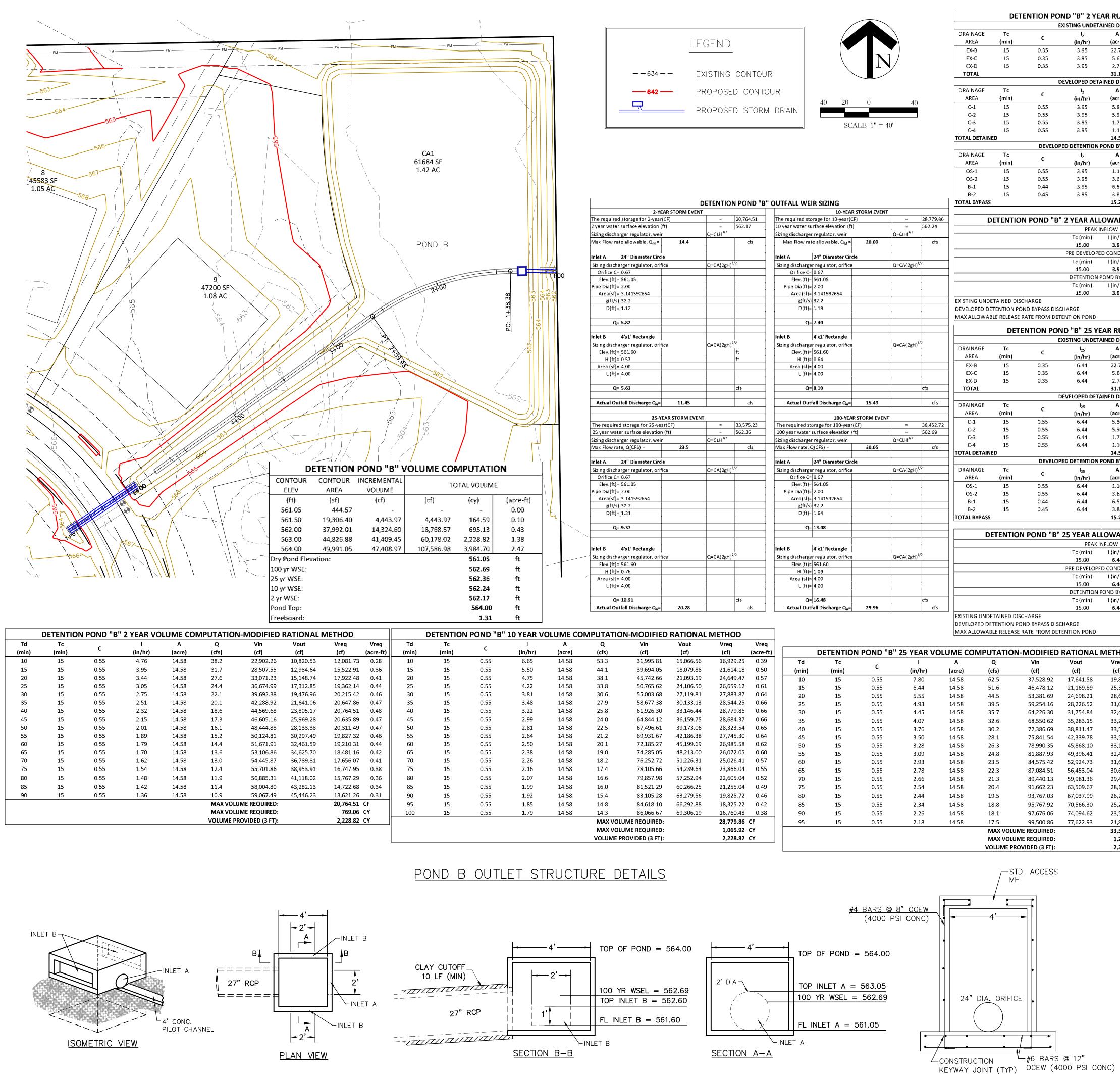
REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON SHEET 20.

BENCHMARKS

"X" FOUND IN THE CONCRETE PAVING OF STINSON ROAD APPROXIMATELY 1,160' NORTH OF THE CENTERLINE INTERSECTION OF STINSON ROAD AND SHILOH DRIVE. THE MONUMENT IS LOCATED APPROXIMATELY 73' NORTHEAST OF A POWER POLE AND 115' SOUTHEAST OF A WATER MANHOLE STRUCTURE. ELEVATION = 587.11'

SQUARE CUT ON NORTHWEST CORNER OF WYE INLET LOCATED AT THE SOUTHWEST CORNER OF STINSON ROAD AND HIGHLAND DRIVE. ELEVATION = 589.40'

JOHNSON VOLK JOHNSON VOLK DONSULTING TBPELS: Engineering Firm No. 11962 / Land Surveying Firm No. 10194033 704 Central Parkway East Suite 1200 Plano, TX 75074 972.201.3100	
DEAN FARMS AT STINSON HIGHLAND CITY OF LUCAS COLLIN COUNTY, TEXAS	
DETENTION POND A	
SCALE: 1" = 40' (H) 1" = 4' (V) JVC No WLA501	



			DETENTION PC	OND "B" 2 YE			TATION			DETE		ND "B" 10 YE		COMPUTATIC)N
LEGEND		DRAINAGE To AREA (mi	c C	l ₂ (in/hr)	A (acre)	CA (acre)	(cfs)	RAINS TO	DRAINAGE AREA	Tc (min)	c	l ₁₀ (in/hr)	Α	CA (Q ₁₀ DRAINS TO cfs)
		EX-B 15 EX-C 15	5 0.35	3.95 3.95	22.71 5.68	7.95 1.99	31.4 7.9		EX-B EX-C	15 15	0.35 0.35	5.50 5.50	5.68	1.99 1	13.7 10.9
634 EXISTING CONTOL	JR	EX-D 15 TOTAL		3.95 DEVELOPED DET	2.78 31.17 AINED DISCHAR	0.97 10.91	3.8 43.1		EX-D TOTAL	15	0.35	5.50 DEVELOPED DETA		10.91 6	5.4 60.0
		DRAINAGE To AREA (mit		I ₂ (in/hr)	A A (acre)	CA (acre)	Q ₂ (cfs)		DRAINAGE AREA	Tc (min)	c	l ₁₀ lin/hr)	Α	CA 0	Q ₁₀ cfs)
PROPOSED STORM	M DRAIN 40 20 0 40	C-1 15 C-2 15	5 0.55	3.95 3.95	5.80 5.90	3.19 3.25	12.6 12.8		C-1 C-2	15 15	0.55 0.55	5.50 5.50	5.80	3.19 1	.7.5 .7.8
	SCALE 1" = 40'	C-3 15 C-4 15	5 0.55	3.95 3.95 3.95	1.72 1.16	0.95 0.64	3.7 2.5		C-3 C-4	15 15 15	0.55 0.55	5.50 5.50 5.50	1.72 1.16	0.95 . 0.64	5.2 3.5
		TOTAL DETAINED		PED DETENTION	14.58 POND BYPASS D	8.02 DISCHARGE	31.68		TOTAL DETAIN	ED		PED DETENTION P	14.58	8.02 4	4.10
		DRAINAGE To AREA (mit	n) C	l ₂ (in/hr)	A (acre)	CA (acre)	Q ₂ (cfs)		DRAINAGE AREA	Tc (min)	С	ا _{ءہ} (in/hr)		(acre) (Q ₁₀ cfs)
		OS-1 15 OS-2 15	5 0.55	3.95 3.95	1.16 3.62	0.64 1.99	2.5 7.9		OS-1 OS-2	15 15	0.55	5.50 5.50	3.62	1.99 1	3.5 1.0
	8" OUTFALL WEIR SIZING	B-1 15 B-2 15 TOTAL BYPASS		3.95 3.95	6.55 3.88 15.21	2.88 1.75 7.26	11.4 6.9 28.7		B-1 B-2 TOTAL BYPASS	15 15	0.44 0.45	5.50 5.50	6.55 3.88 15.21	1.75 9	.5.9 9.6 39.9
2-YEAR STORM EVENTThe required storage for 2-year(CF)=20,764.51	10-YEAR STORM EVENT The required storage for 10-year(CF) = 28,779.86		ITION POND "B	" 2 YEAR ALI					r		POND "B"	10 YEAR ALL		LEASE COMPL	
2 year water surface elevation (ft) = 562.17 Sizing discharger regulator, weir Q=CLH ^{3/2}	10 year water surface elevation (ft)=552.24Sizing discharger regulator, weirQ=CLH				INFLOW	C		Q (cfs)		b f b i v i v		PEAK IN Tc (min)			acre) Q (cfs)
Max Flow rate allowable, Q _M = 14.4 cfs	Max Flow rate allowable, Q _M = 20.09 cfs			15.00	3.95 ED CONDITIONS	0.55	14.58	31.68				15.00 PRE DEVELOPEE	5.50 CONDITIONS	0.55 14	4.58 44.10
Sizing discharger regulator, orifice Q=CA(2gH) ^{1/2} Orifice C= 0.67	Sizing discharger regulator, orifice Q=CA(2gH) ^{1/2} Orifice C= 0.67			Tc (min) 15.00	l (in/hr) 3.95	C 0.35	A (acre) 31.17	Q (cfs) 43.1				Tc (mín) 15.00			acre) Q (cfs) 1.17 60.0
Elev.(ft)= 561.05 Pipe Dia(ft)= 2.00	Elev.(ft)= 561.05 Pipe Dia(ft)= 2.00			Tc (min)	POND BYPASS	C	• •	Q (cfs)				DETENTION P Tc (min)	l (in/hr)	•	acre) Q (cfs)
Area(sf)= 3.141592654 g(ft/s) 32.2 D(ft)= 1.12	Area(sf)= 3.141592654 g(ft/s) 32.2 D(ft)= 1.19	EXISTING UNDETAINE DEVELOPED DETENTIO		15.00	3.95	0.48	15.21	28.7 43.1 28.7	EXISTING UNDE DEVELOPED DE			15.00	5.50	0.48 1	5.21 39.9 60.0 39.9
Q= 5.82	Q= 7.40	MAX ALLOWABLE REL	EASE RATE FROM DE	TENTION POND				28.7 14.4	MAX ALLOWAB	BLE RELEASE R	ATE FROM DET	TENTION POND			20.1
Inlet B 4'x1' Rectangle Q=CA(2gH) ^{1/2}	Inlet B 4'x1' Rectangle Sizing discharger regulator, orifice Q=CA(2gH) ^{1/2}			ND "B" 25 YI		RGE						EXISTING UNDETA			
Elev.(ft)= 561.60 ft H (ft)= 0.57 ft	Elev.(ft)= 561.60 H (ft)= 0.64	DRAINAGE To AREA (min	n} C	l ₂₅ (in/hr)	A (acre)	C * C _f * A (acre)	(cfs)	RAINS TO	DRAINAGE AREA	Tc (min)	C	l ₁₀₀ (in/hr)		(acre) (e	Q ₁₀₀ DRAINS TO cfs)
Area (sf)= 4.00 L (ft)= 4.00	Area (sf)= 4.00 L (ft)= 4.00	EX-B 15 EX-C 15	5 0.35	6.44 6.44	22.71 5.68	7.95 1.99	51.2 12.8		EX-B EX-C EX-D	15 15 15	0.35 0.35 0.35	7.84 7.84 7.84	22.71 5.68 2.78	1.99 1	52.3 15.6 7.6
Q= 5.63 cfs	Q= 8.10 cfs	EX-D 15 T OTAL		6.44	2.78 31.17 AINED DISCHAR	0.97 10.91 RGE	6.3 70.3		TOTAL	15		7.84	31.17	10.91 8	7.6 35.5
Actual Outfall Discharge Q _A = 11.45 cfs	Actual Outfall Discharge Q _A = 15.49 cfs	DRAINAGE To AREA (min		l ₂₅ (in/hr)	A A (acre)	C * C _f * A (acre)	Q ₂₅ (cfs)		DRAINAGE AREA	Tc (min)	с	I ₁₀₀ (in/hr)	A	CA C	Q ₁₀₀ cfs)
25-YEAR STORM EVENTThe required storage for 25-year(CF)=33,575.2325 year water surface elevation (ft)=562.36	100-YEAR STORM EVENT The required storage for 100-year(CF) = 38,452.72 100 year water surface elevation (ft) = 562.69	C-1 15 C-2 15	5 0.55	6.44 6.44	5.80 5.90	3.19 3.25	20.5 20.9		C-1 C-2	15 15 15	0.55 0.55	7.84	5.80 5.90	3.19 2	25.0 25.4
25 year water surface elevation (ft) = 562.36 Sizing discharger regulator, weir Q=CLH ^{3/2} Max Flow rate, Q(CFS) = 23.5 cfs	100 year water surface elevation (tt) = 562.69 Sizing discharger regulator, weir Q=CLH ^{3/2} Max Flow rate, Q(CFS) = 30.05 cfs	C-3 15 C-4 15	5 0.55	6.44 6.44	1.72 1.16	0.95 0.64	6.1 4.1		C-3 C-4	15 15	0.55 0.55	7.84 7.84	1.72 1.16	0.95 0.64	7.4 5.0
Inlet A 24" Diameter Circle	Inlet A 24" Diameter Circle	TOTAL DETAINED		PED DETENTION	14.58 POND BYPASS D		51. 6 4		TOTAL DETAIN		DEVELOI	PED DETENTION P	14.58 OND BYPASS DIS	HARGE	52.9
Sizing discharger regulator, orifice Q=CA(2gH) ^{1/2} Orifice C= 0.67 Eley (ft)= 561.05	Sizing discharger regulator, orifice Q=CA(2gH) ^{1/2} Orifice C= 0.67 Elay (ft)= 561.05	DRAINAGE To AREA (min	n} C	l _{zs} (in/hr)	A (acre)	C * C _f * A (acre)	Q ₂₅ (cfs)		DRAINAGE AREA	Tc (min)	C	l ₁₀₀ (in/hr)		(acre) (i	Q ₁₀₀ cfs)
Elev.(ft)= 561.05 Pipe Dia(ft)= 2.00 Area(sf)= 3.141592654	Elev.(ft)= 561.05 Pipe Dia(ft)= 2.00 Area(sf)= 3.141592654	OS-1 15 OS-2 15 B-1 15	5 0.55	6.44 6.44	1.16 3.62	0.64 1.99	4.1 12.8		OS-1 OS-2 B-1	15 15 15	0.55 0.50 0.44	7.84 7.84 7.84	1.16 3.62 6.55	1.81 1	5.0 14.2 22.6
g(ft/s) 32.2 D(ft)= 1.31	g(ft/s) 32.2 D(ft)= 1.64	B-1 15 B-2 15 TOTAL BYPASS		6.44 6.44	6.55 3.88 15.21	2.88 1.75 7.26	18.6 11.2 46.7		B-1 B-2 TOTAL BYPASS	15	0.44 0.45	7.84 7.84	5.55 3.88 15.21	1.75 1	13.7 5.48
Q= 9.37	Q= 13.48			' 25 YEAR AL					r		POND "B"	100 YEAR AL			
Inlet B 4'x1' Rectangle	Inlet B [4'x1' Rectangle				INFLOW	C		Q (cfs)				PEAK IN Tc (min)			acre) Q (cfs)
Sizing discharger regulator, orifice Q=CA(2gH) ^{1/2} Elev.(ft)= 561.60	Sizing discharger regulator, orifice Q=CA(2gH) ^{1/2} Elev.(ft)= 561.60 H (ft)= 1.09			15.00	6.44 ED CONDITIONS	0.55		51.64				15.00 PRE DEVELOPEI	7.84		4.58 62.9
H (ft)= 0.76 Area (sf)= 4.00 L (ft)= 4.00	H (tt)= 1.09 Area (sf)= 4.00 L (ft)= 4.00			Tc (min) 15.00	l (in/hr) 6.44	C 0.35	A (acre) 31.17	Q (cfs) 70.3				Tc (min) 15.00	l (in/br) 7.84		acre) Q (cfs) 1.17 85.5
Q= 10.91 cfs	Q= 16.48 cfs			Tc (min)	POND BYPASS	C		Q (cfs)				DETENTION P Tc (min) 15.00	OND BYPASS (in/hr) 7.84	,	acre) Q (cfs) 5.21 55.5
Actual Outfall Discharge Q _A = 20.28 cfs	Actual Outfall Discharge Q _A = 29.96 cfs	EXISTING UNDETAINE		15.00	6.44	0.48	15.21	46.7 70.3 46.7	EXISTING UNDE				7.84	0.47 1	5.21 55.5 85.5 55.5
OMPUTATION-MODIFIED RATIONAL METHOD		MAX ALLOWABLE REL						23.5	MAX ALLOWAE						30.1
Q Vin Vout Vreq Vreq (cfs) (cf) (cf) (cf) (acre- 53.3 31,995.81 15,066.56 16,929.25 0.39	-ft) DETENTION POND "B" 25 YEAR VOLU				_				NTION POP	ND "B" 10	O YEAR DE	ESIGN-MODI		NAL METHO	
33.3 31,993.81 13,000.30 10,923.23 0.33 44.1 39,694.05 18,079.88 21,614.18 0.50 38.1 45,742.66 21,093.19 24,649.47 0.57	0 (min) (min) (in/hr) (A Q (acre) (cfs) 14.58 62.5	Vin (cf) 37,528.92	Vout (cf) 17,641.58	Vreq (cf) 19,887.35	Vreq (acre-ft) 0.46	(min) (m	Tc nin) 15	C 0.55	ہ (in/hr) 11.90	A (acre) 14.58	Q (cfs) 95.4	Vin (cf) 28,627.83	Vout (cf) 18,032.78	Vreq Vreq (cf) (acre-ft) 10,595.05 0.24
33.8 50,765.62 24,106.50 26,659.12 0.61 30.6 55,003.68 27,119.81 27,883.87 0.64	1 15 15 0.55 6.44	14.58 62.5 14.58 51.6 14.58 44.5	46,478.12 53,381.69	21,169.89 24,698.21	25,308.23 28,683.49	0.48 0.58 0.66	10 1	15 15 15	0.55 0.55 0.55	9.53 7.84	14.58 14.58 14.58	93.4 76.4 62.9	45,852.64 56,582.06	22,540.98 27,049.18	23,311.66 0.54 29,532.89 0.68
27.9 58,677.38 30,133.13 28,544.25 0.66 25.8 61,926.30 33,146.44 28,779.86 0.66	6 25 15 0.55 4.93	14.58 44.5 14.58 39.5 14.58 35.7	59,254.16 64,226.30	24,098.21 28,226.52 31,754.84	31,027.64 32,471.47	0.88 0.71 0.75	20 1	15 15 15	0.55 0.55 0.55	6.72 5.97	14.58 14.58 14.58	53.9 47.9	64,692.55 71,846.04	31,557.37 36,065.57	33,135.18 0.76 35,780.48 0.82
24.0 64,844.12 36,159.75 28,684.37 0.66 22.5 67,496.61 39,173.06 28,323.54 0.65	6 35 15 0.55 4.07	14.58 35.7 14.58 32.6 14.58 30.2	68,550.62 72,386.69	35,283.15 38,811.47	33,267.47 33,575.23	0.75 0.76 0.77	30 1	15 15 15	0.55 0.55 0.55	5.40 4.95	14.58 14.58 14.58	47.9 43.3 39.7	77,944.08 83,281.12	40,573.76 45,081.96	37,370.32 0.86 38,199.16 0.88
21.2 69,931.67 42,186.38 27,745.30 0.64 20.1 72,185.27 45,199.69 26,985.58 0.62	4 45 15 0.55 3.50	14.58 28.1 14.58 26.3	75,841.54 78,990.35	42,339.78 45,868.10	33,501.76 33,122.26	0.77 0.76	40 1	15 15 15	0.55 0.55 0.55	4.57 4.27	14.58 14.58	36.7 34.2	88,042.88 92,353.90	49,590.16 54,098.35	38,452.72 0.88 38,255.55 0.88
19.0 74,285.05 48,213.00 26,072.05 0.60 18.2 76,252.72 51,226.31 25,026.41 0.57	0 55 15 0.55 3.09	14.58 24.8 14.58 23.5	81,887.93 84,575.42	49,396.41 52,924.73	32,491.52 31,650.69	0.75 0.73	50 1	15 15 15	0.55 0.55 0.55	4.00	14.58 14.58	32.1 30.3	96,301.77 99,950.41	58,606.55 63,114.74	37,695.22 0.87 36,835.67 0.85
17.478,105.6654,239.6323,866.040.5516.679,857.9857,252.9422,605.040.52	5 65 15 0.55 2.78	14.58 22.3 14.58 21.3	87,084.51 89,440.13	56,453.04 59,981.36	30,631.47 29,458.77	0.70 0.68	60 1	15	0.55	3.58 3.25	14.58	28.7	103,347.95	67,622.94	35,725.01 0.82
16.0 81,521.29 60,266.25 21,255.04 0.49 15.4 83,105.28 63,279.56 19,825.72 0.46	9 75 15 0.55 2.54	14.58 20.4 14.58 19.5	91,662.23 93,767.03	63,509.67 67,037.99	28,152.56 26,729.04	0.65 0.61	75 1	15 15	0.55 0.55	3.11	14.58 14.58	26.1 25.0	109,530.37 112,368.04	76,639.33 81,147.53	32,891.04 0.76 31,220.51 0.72
14.8 84,618.10 66,292.88 18,325.22 0.42 14.3 86,066.67 69,306.19 16,760.48 0.38	2 85 15 0.55 2.34	14.58 18.8 14.58 18.1	95,767.92 97,676.06	70,566.30 74,094.62	25,201.62 23,581.44	0.58 0.54	85 1	15 15	0.55 0.55	2.99 2.88	14.58 14.58	24.0 23.1	115,063.67 117,633.09	85,655.72 90,163.92	29,407.94 0.68 27,469.17 0.63
MAX VOLUME REQUIRED: 28,779.86 CF MAX VOLUME REQUIRED: 1,065.92 CY		14.58 17.5	99,500.86 DLUME REQUIRED:	77,622.93	23,381.44 21,877.93 33,575.23	0.50	95 1	15 15	0.55 0.55	2.77 2.68	14.58 14.58	22.2 21.5	120,089.55 122,444.25	94,672.12 99,180.31	25,417.43 0.58 23,263.94 0.53
VOLUME PROVIDED (3 FT):1,003.522,228.82CY		MAX VC	DLUME REQUIRED: PROVIDED (3 FT):		1,243.53 2,228.82	СҮ	100 1	10	0.70	2.59	14.58	26.5		99,180.31 WE REQUIRED:	59,537.35 1.37 38,452.72 CF
					_,0.02									VIE REQUIRED: OVIDED (3 FT):	1,424.17 CY 2,228.82 CY

						DET			EAR RUNOFI		TATION			DETE		ND "B" 10 YE			ION	
					DRAINAGE	Тс	(l ₂	A	CA	Q ₂	DRAINS TO	DRAINAGE	Тс	с С	EXISTING UNDETA	Α	CA	Q ₁₀	DRAINS TO
					AREA EX-B EX-C	(min) 15 15	0.35 0.35	(in/hr) 3.95 3.95	(acre) 22.71 5.68	(acre) 7.95 1.99	(cfs) 31.4 7.9		AREA EX-B EX-C	(min) 15 15	0.35 0.35	(in/hr) 5.50 5.50	(acre) 22.71 5.68	(acre) 7.95 1.99	(cfs) 43.7 10.9	
g contouf	۶				EX-D EX-D TOTAL	15	0.35	3.95	2.78 31.17	0.97 10.91	3.8 43.1		EX-C EX-D TOTAL	15	0.35	5.50	2.78 31.17	0.97 10.91	5.4 60.0	
SED CONTO	UR				DRAINAGE	Тс	I	l ₂	A	CA	Q ₂		DRAINAGE	Тс	С	DEVELOPED DETA	A	CA	Q ₁₀	
SED STORM	DRAIN	40 20	0	40	AREA C-1	(min) 15	0.55	(in/hr) 3.95	(acre) 5.80	(acre) 3.19	(cfs) 12.6		AREA C-1	(min) 15	0.55	(in/hr) 5.50	(acre) 5.80	(acre) 3.19	(cfs) 17.5	
		SC.	ALE 1" = 4	0'	C-2 C-3 C-4	15 15 15	0.55 0.55 0.55	3.95 3.95 3.95	5.90 1.72 1.16	3.25 0.95 0.64	12.8 3.7 2.5		C-2 C-3 C-4	15 15 15	0.55 0.55 0.55	5.50 5.50 5.50	5.90 1.72 1.16	3.25 0.95 0.64	17.8 5.2 3.5	
					TOTAL DETAIN				14.58 POND BYPASS D	8.02	31.68		TOTAL DETAIN				14.58	8.02	44.10	
					DRAINAGE AREA	Tc (min)	С	l ₂ (in/hr)	A (acre)	CA (acre)	Q ₂ (cfs)		DRAINAGE AREA	Tc (min)	С	ا ₁₀ (in/hr)	A (acre)	CA (acre)	Q ₁₀ (cfs)	
					OS-1 OS-2	15 15	0.55 0.55	3.95 3.95	1.16 3.62	0.64 1.99	2.5 7.9		OS-1 OS-2	15 15	0.55 0.55	5.50 5.50	1.16 3.62	0.64	3.5 11.0	
					B-1 B-2	15 15	0.44 0.45	3.95 3.95	6. 55 3.88	2.88 1.75	11.4 6.9		B-1 B-2	15 15	0.44 0.45	5.50 5.50	6.55 3.88	2.88 1.75	15.9 9.6	
	OUTFALL WEIR	10-YEAF	STORM EVENT		TOTAL BYPASS				15.21	7.26	28.7		TOTAL BYPASS				15.21	7.26	39.9	
20,764.51 562.17	The required stora 10 year water surf	face elevation (ft))	= 28,779.86 = 552.24 Q=CLH ^{3/2}	C	ETENTIC	N POND "B		LOWABLE R	ELEASE C	ΟΜΡυτατιά		D	ETENTION	POND "B'	10 YEAR AL		LEASE COM	PUTATIO	<u>N</u>
cfs	Sizing discharger r Max Flow rate	allowable, Q _M =	20.09	cfs	-			Tc (min) 15.00	l (in/hr) 3.95	C 0.55	A (acre) 14.58	Q (cfs) 31.68				Tc (min) 15.00	l (in/hr) 5.50		A (acre) 14.58	Q (cfs) 44.10
(H) ^{1/2}	Inlet A 2	4" Diameter Circ regulator, orifice		Q=CA(2gH) ^{1/2}				Tc (min)	ED CONDITIONS	С	A (acre)	Q (cfs)				Tc (min)	D CONDITIONS		A (acre)	Q (cfs)
	Orifice C= 0 Elev.(ft)= 5	0.67 61.05							3.95	0.35	31.17	43.1				15.00 DETENTION F		0.35	31.17	60.0
	Pipe Dia(ft)= 2 Area(sf)= 3 g(ft/s) 3	.141592654			EXISTING UND		CHARGE	Tc (min) 15.00	l (in/hr) 3.95	C 0.48	A (acre) 15.21	Q (cfs) 28.7 43.1	EXISTING UND		HARGE	Tc (min) 15.00	l (in/hr) 5.50	0.48	A (acre) 15.21	Q (cfs) 39.9 60.0
	D(ft)= 1				DEVELOPED DI	TENTION PO	ND BYPASS DIS					28.7 14.4	DEVELOPED DE	TENTION POP	ND BYPASS DIS	SCHARGE TENTION POND				39.9 20 .1
	Q= 7 Inlet B 4	'.40 'x1' Rectangle				DET	ENTION POI	ND "B" 25 Y	EAR RUNOF	F COMPL	ITATION					ND "B" 100 Y			ΓΙΟΝ	
(H) ^{1//} [Sizing discharger r Elev.(ft)=[5	regulator, orifice		Q=CA(2gH) ^{1/2}	DRAINAGE	Тс	i	I ₂₅	A	C * C _f * A	Q ₂₅	DRAINS TO	DRAINAGE	Тс	С		Α	CA	Q ₁₀₀	DRAINS TO
ft	H (ft)= 0 Area (sf)= 4).64 1.00			AREA EX-B	(min) 15	0.35	(in/hr) 6.44	(acre) 22.71	(acre) 7.95	(cfs) 51.2		AREA EX-B	(min) 15	0.35	(in/hr) 7.84	(acre) 22.71	(acre) 7.95	(cfs) 62.3	
cfs	L (ft)= 4			cfs	EX-C EX-D TOTAL	15 15	0.35 0.35	6.44 6.44	5.68 2.78 31.17	1.99 0.97 10.91	12.8 6.3 70.3		EX-C EX-D TOTAL	15 15	0.35 0.35	7.84 7.84	5.68 2.78 31.17	1.99 0.97 10.91	15.6 7.6 85.5	
cfs		II Discharge Q ₄ =	15.49	cfs		Тс	I	DEVELOPED DET	TAINED DISCHAR		Q ₂₅		DRAINAGE	Тс		DEVELOPED DET#	-		Q ₁₀₀	
			R STORM EVENT		AREA C-1	(min) 15	0.55	(in/hr) 6.44	(acre) 5.80	(acre) 3.19	(cfs) 20.5		AREA C-1	(min) 15	0.55	(in/hr) 7.84	(acre) 5.80	(acre) 3.19	(cfs) 25.0	
33,575.23 562.36	The required stor 100 year water su	rface elevation (= 38,452.72 = 562.69 Q=CLH ^{3/2}	C-2 C-3	15 15 15	0.55 0.55	6.44 6.44	5.90 1.72	3.25 0.95	20.9 20.9 6.1		C-2 C-3	15 15 15	0.55 0.55	7.84 7.84	5.90 1.72	3.25 0.95	25.4 7.4	
cfs	Sizing discharger r Max Flow rate, Q()		30.05	Q=CLH cfs	C-4 TOTAL DETAIN	15 ED	0.55	6.44	1.16 14.58	0.64 8.02	4.1 51.64		C-4 TOTAL DETAIN	15	0.55	7.84	1.16 14.58	0.64 8.02	5.0 62.9	
(H) ^{1/2}	Inlet A 2 Sizing discharger i	4" Diameter Circ regulator, orifice	le	Q=CA(2gH) ^{1/2}	DRAINAGE	Тс		PED DETENTION	I POND BYPASS E A	ISCHARGE C * C _f * A	Q ₂₅		DRAINAGE	Tc			POND BYPASS DIS A	CHARGE	Q ₁₀₀	
	Orifice C= 0 Elev.(ft)= 5	61.05			AREA OS-1	(min) 15	C 0.55	(in/hr) 6.44	(acre) 1.16	(acre) 0.64	(cfs) 4.1		AREA OS-1	(min) 15	0.55	(in/hr) 7.84	(acre) 1.16	(acre) 0.64	(cfs) 5.0	
	Pipe Dia(ft)= 2 Area(sf)= 3 g(ft/s) 3	.141592654			OS-2 B-1	15 15	0.55 0.44	6.44 6.44	3.62 6.55	1.99 2.88	12.8 18.6		OS-2 B-1	15 15	0.50 0.44	7.84 7.84	3.62 6.55	1.81 2.88	14.2 22.6	
	D(ft)= 1				B-2 TOTAL BYPASS	15	0.45	6.44	3.88 15.21	1.75 7.26	11.2 46.7		B-2 TOTAL BYPASS	15	0.45	7.84	3.88 15.21	1.75 7.08	13.7 55.48	
	Q= 1	.3.48			D	ETENTIO	N POND "B"			ELEASE	OMPUTATI	ON	Di	TENTION	POND "B"	100 YEAR AL		ELEASE CON	IPUTATIO	N
gH) ^{1/2}	Inlet B 4 Sizing discharger i	!'x1' Rectangle		Q=CA(2gH) ^{1/2}				Tc (min)	INFLOW I (in/hr)	С	A (acre)	Q (cfs)				Tc (min)	NFLOW (in/hr)		A (acre)	Q (cfs)
	Elev.(ft)= 5 H (ft)= 1	61.60 09							6.44 PED CONDITIONS	0.55	14.58	51.64					7.84 D CONDITIONS		14.58	62.9
	Area (sf)= 4 L (ft)= 4							Tc (min) 15.00	I (in/hr) 6.44 I POND BYPASS	C 0.35	A (acre) 31.17	Q (cfs) 70.3				Tc (min) 15.00	l (in/br) 7.84 POND BYPASS		A (acre) 31.17	Q (cfs) 85.5
cfs cfs	Q= 1 Actual Outfal	.6.48 Il Discharge Q _A =	29.96	cfs cfs				Tc (min) 15.00	I (in/hr) 6.44	C 0.48	A (acre) 15.21	Q (cfs) 46.7				Tc (min) 15.00	(in/hr) 7.84		A (acre) 15.21	Q (cfs) 55.5
		• • [EXISTING UND		CHARGE ND BYPASS DIS					70.3 46.7	EXISTING UND DEVELOPED DI			SCHARGE				85.5 55.5
HOD req Vreq					MAX ALLOWAR	BLE RELEASE	RATE FROM DET	ENTION POND				23.5	MAX ALLOWA	BLE RELEASE R	ATE FROM DE	TENTION POND				30.1
rf) (acre-ft ,929.25 0.39	;) Td		N POND "	B" 25 YEAR VOLU			MODIFIED	RATIONAL Vout		Vreq	Td		NTION POI	ND "B" 10		ESIGN-MOD	IFIED RATIO	NAL METH		Vreq
,614.18 0.50 ,649.47 0.57	(min)	Tc (min) 15	C 0.55	(in/hr)	(acre) (Q cfs) 2.5	(cf)	(cf)	Vreq (cf)	(acre-ft)	(min)	Tc (min) 15	C	(in/hr)	A (acre) 14.58	Q (cfs) 95.4	(cf)	(cf)	Vreq (cf)	(acre-ft
,659.12 0.61 ,883.87 0.64	10 15 20	15 15 15	0.55 0.55 0.55	6.44	14.58 5	1.6 4.5	37,528.92 46,478.12 53,381.69	17,641.58 21,169.89 24,698.21	19,887.35 25,308.23 28,683.49	0.46 0.58 0.66	5 10 15	15 15 15	0.55 0.55 0.55	11.90 9.53 7.84	14.58 14.58 14.58	95.4 76.4 62.9	28,627.83 45,852.64 56,582.06	18,032.78 22,540.98 27,049.18	10,59 23,31 29,53	1.66 0.54
,544.25 0.66 ,779.86 0.66	25	15 15 15	0.55 0.55 0.55	4.93	14.58 3	9.5 5.7	59,254.16 64,226.30	28,226.52 31,754.84	31,027.64 32,471.47	0.71 0.75	20 25	15 15 15	0.55 0.55 0.55	6.72 5.97	14.58 14.58 14.58	53.9 47.9	64,692.55 71,846.04	31,557.37 36,065.57	33,13 35,78	5.18 0.76
,684.37 0.66 ,323.54 0.65	35	15 15 15	0.55 0.55 0.55	4.07	14.58 3	2.6 0.2	68,550.62 72,386.69	35,283.15 38,811.47	33,267.47 33,575.23	0.76 0.77	30 35	15 15 15	0.55 0.55 0.55	5.40 4.95	14.58 14.58 14.58	43.3 39.7	77,944.08 83,281.12	40,573.76 45,081.96	37,37 38,19	0.32 0.86
,745.30 0.64 ,985.58 0.62	40 45 50	15 15 15	0.55 0.55 0.55	3.50	14.58 2	0.2 8.1 6.3	72,386.69 75,841.54 78,990.35	42,339.78 45,868.10	33,575.23 33,501.76 33,122.26	0.77 0.77 0.76	35 40 45	15 15 15	0.55 0.55 0.55	4.95 4.57 4.27	14.58 14.58 14.58	39.7 36.7 34.2	83,281.12 88,042.88 92,353.90	49,590.16 54,098.35	38,45 38,45 38,25	2.72 0.88
,072.05 0.60 ,026.41 0.57	55	15 15 15	0.55 0.55 0.55	3.09	14.58 2	4.8 3.5	81,887.93 84,575.42	49,396.41 52,924.73	32,491.52 31,650.69	0.75 0.73	43 50 55	15 15 15	0.55 0.55 0.55	4.27 4.00 3.78	14.58 14.58 14.58	34.2 32.1 30.3	96,301.77 99,950.41	58,606.55 63,114.74	36,83	5.22 0.87
,866.04 0.55 ,605.04 0.52	65	15 15 15	0.55 0.55 0.55	2.78	14.58 2	2.3 1.3	87,084.51 89,440.13	56,453.04 59,981.36	30,631.47 29,458.77	0.70 0.68	60	15	0.55	3.58	14.58	28.7	103,347.95	67,622.94	35,72	5.01 0.82
,255.04 0.49 ,825.72 0.46	75	15 15 15	0.55 0.55 0.55	2.54	14.58 2	0.4 9.5	91,662.23 93,767.03	63,509.67 67,037.99	29,438.77 28,152.56 26,729.04	0.65 0.61	70 75	15 15	0.55 0.55	3.25 3.11	14.58 14.58	26.1 25.0	109,530.37 112,368.04	76,639.33 81,147.53	32,89 31,22	0.51 0.72
0.46 0.42 0.42 0.43 0.46	85	15	0.55	2.34	14.58 1	8.8	95,767.92	70,566.30	25,201.62	0.58	80 85	15 15	0.55 0.55	2.99 2.88	14.58 14.58	24.0 23.1	115,063.67 117,633.09	85,655.72 90,163.92	29,40 27,46	9.17 0.63
,779.86 CF ,065.92 CY	90 95	15 15	0.55 0.55		14.58 1	8.1 7.5	97,676.06 99,500.86	74,094.62 77,622.93	23,581.44 21,877.93	0.54 0.50	90 95	15 15	0.55 0.55	2.77 2.68	14.58 14.58	22.2 21.5	120,089.55 122,444.25	94,672.12 99,180.31	25,41 23,26	3.94 0.53
,065.92 CY ,228.82 CY					N	AX VOLUN	IE REQUIRED: IE REQUIRED: VIDED (3 FT):		33,575.23 1,243.53 2,228.82	СҮ	100	10	0.70	2.59	14.58	26.5		99,180.31 IME REQUIRED:		7.35 1.37 2.72 CF
						SEGIVIE PKU	יישנט (א דון:		2,220.82	<u>~</u> 1								IME REQUIRED: ROVIDED (3 FT):	-	4.17 CY 8.82 CY

Β \square PON DETENTION X THOMAS K. DAYTON 91751 () 09/27/2022 SCALE: 1" = 40' (H) 1'' = 4' (V)One Inch JVC No WLA501 17

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REFERENCE NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES ON SHEET 20.

BENCHMARKS

STRUCTURE.

ELEVATION = 587.11'

AND HIGHLAND DRIVE.

ELEVATION = 589.40'

"X" FOUND IN THE CONCRETE PAVING OF STINSON ROAD

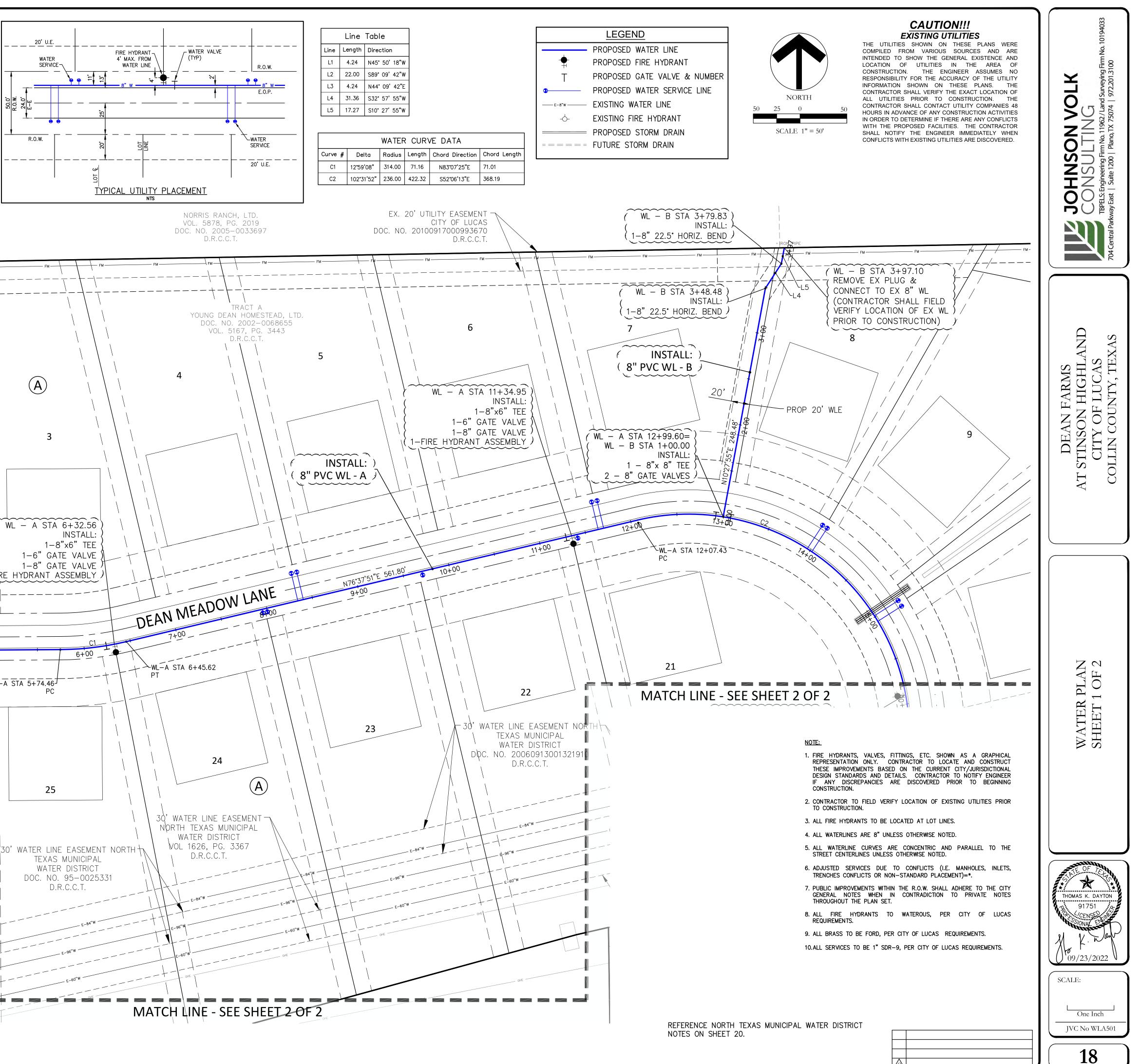
INTERSECTION OF STINSON ROAD AND SHILOH DRIVE. THE

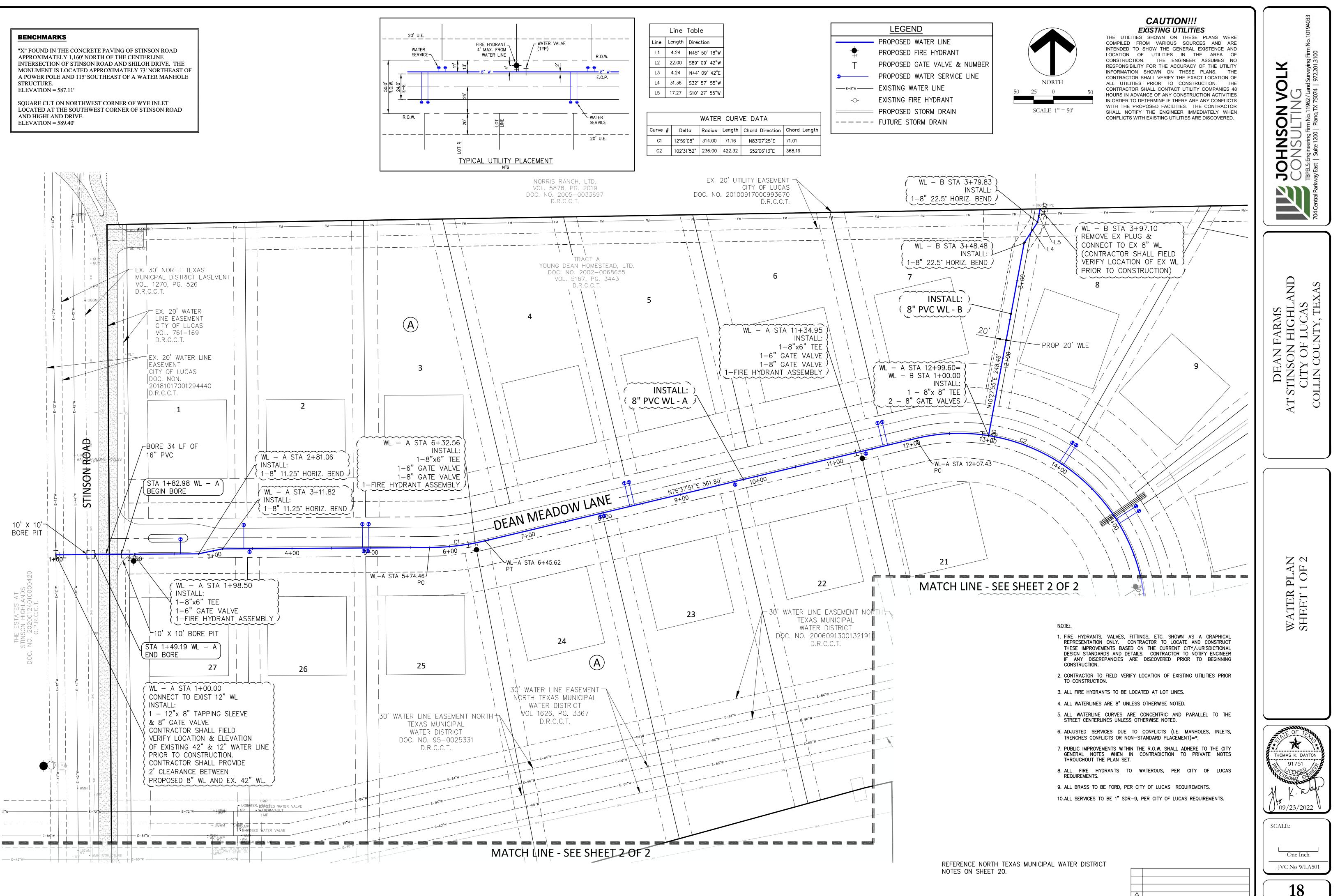
MONUMENT IS LOCATED APPROXIMATELY 73' NORTHEAST OF A POWER POLE AND 115' SOUTHEAST OF A WATER MANHOLE

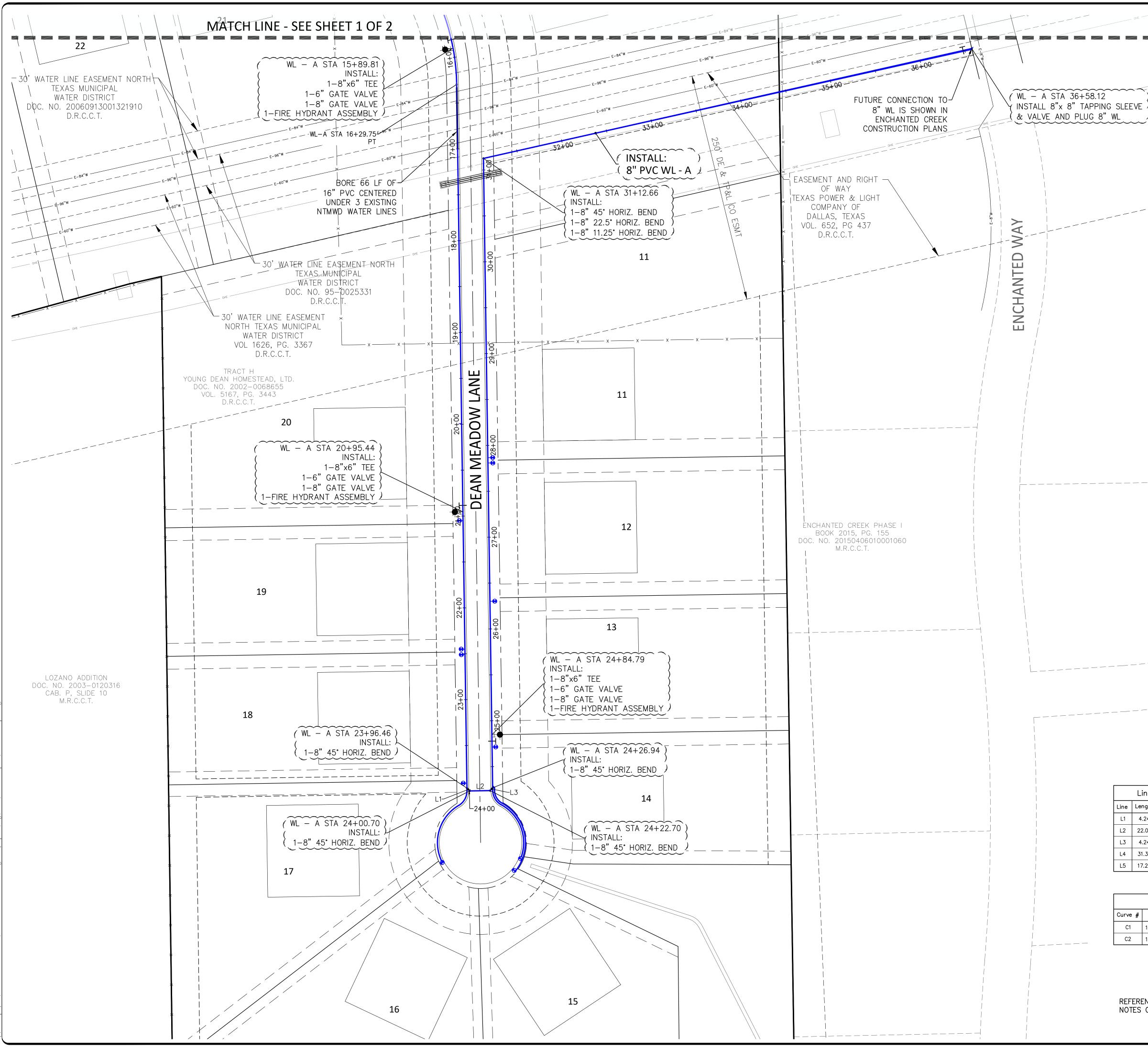
APPROXIMATELY 1,160' NORTH OF THE CENTERLINE

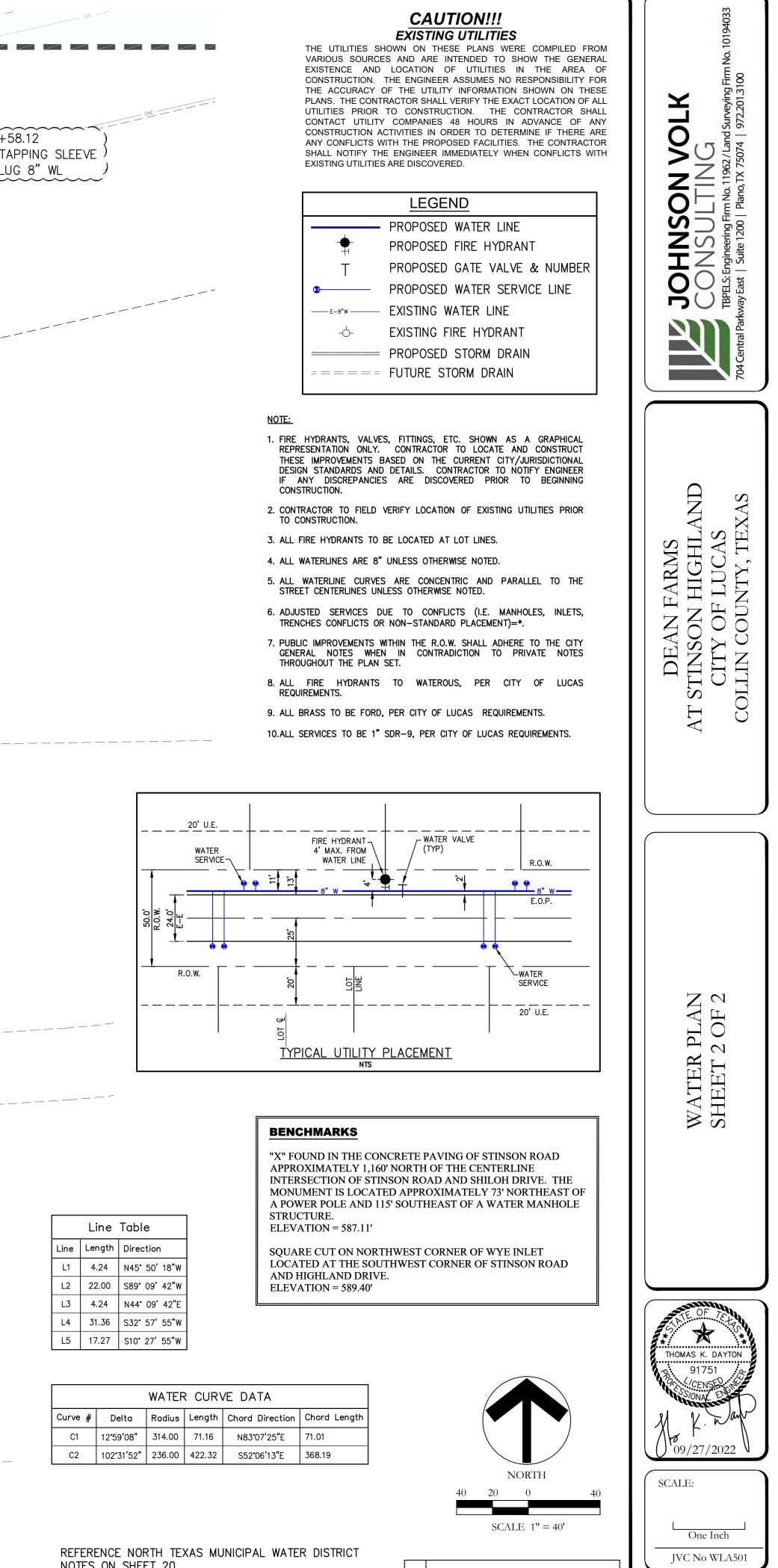
SQUARE CUT ON NORTHWEST CORNER OF WYE INLET

LOCATED AT THE SOUTHWEST CORNER OF STINSON ROAD









NOTES ON SHEET 20.

19

NORTH TEXAS MUNICIPAL WATER DISTRICT NOTES:

A. North Texas Municipal Water District (NTMWD) 42, 60, 84 and 96-inch water transmission pipelines are located within limits of construction.

B. Operation of heavy earthmoving equipment, compaction equipment or heavy construction equipment, such as concrete trucks, shall be restricted to specific crossing points across NTMWD easements, as approved by the NTMWD. The crossings shall be designated and verified to provide a minimum of five-feet of cover.

C. To assure that placing of significant loads over the NTMWD pipeline does not damage the existing pipeline, no materials shall be stockpiled on the NTMWD easement without authorization from the NTMWD. If the contractor desires to use NTMWD's easement for stockpile of materials, contact NTMWD Engineering at (972) 442-5405 so your plans for use of NTMWD's easement can be reviewed.

D. A minimum of 4.5 feet separation between bottom of pavement and top of NTMWD pipeline is required. In addition, if separation between bottom of pavement and top of pipeline is less than 4.5 feet, then a thickened pavement section is required.

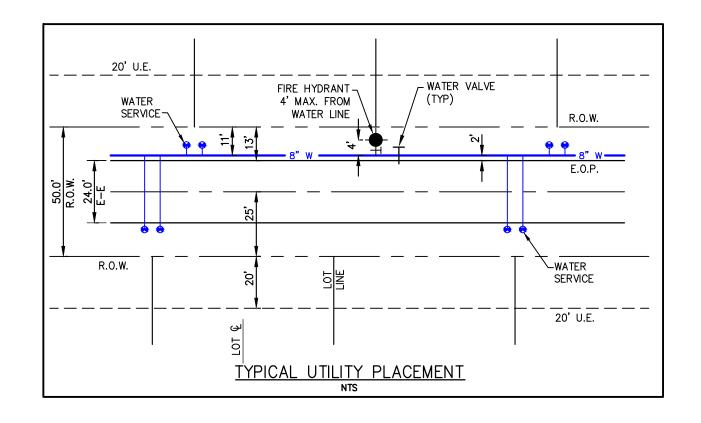
E. Crossing of the NTMWD easement with other utilities, such as TV cable, phone, gas and electric, shall be coordinated with the NTMWD to avoid damage to the NTMWD facilities.

F. Outdoor lighting, landscaping, screening walls or other facilities shall not be installed in NTMWD easements without written approval of the NTMWD.

G. Unless otherwise shown or required, a minimum of two-foot clearance shall be provided for all utilities crossing the NTMWD pipelines. Directional bore crossings require a minimum of four-feet clearance.

H. The contractor shall contact NTMWD Line Locates at (469) 626-4569 at least 48 hours prior to performing any work in the vicinity of the NTMWD facilities."

I. Contractor shall bench and shore excavation to limit amount of 42" waterline exposed to 4'.



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	CONNECT TO EX. 12" WATER							
	CONTRACTOR TO FIELD	/						
	VERIFY LOCATION PRIOR TO							
-	CONSTRUCTION; IF LOCATION							
-	AND/OR ELEVATION DIFFER	/						
Τ'	FROM PLAN, CONTRACTOR SH			Af				
	NUTLY THE ENGINEER)	/		PPR DC/				
	1 – 8" GATE VALVE			© 20XI 10 710 7 W				
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BENCHMARKS

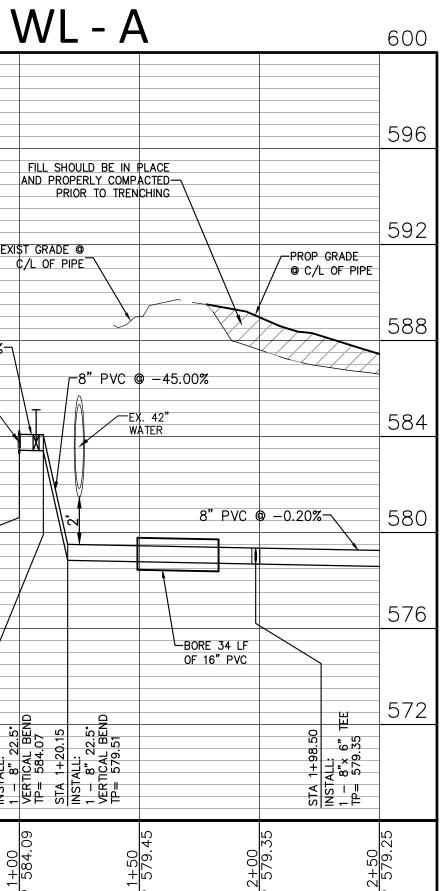
"X" FOUND IN THE CONCRETE PAVING OF STINSON ROAD APPROXIMATELY 1,160' NORTH OF THE CENTERLINE INTERSECTION OF STINSON ROAD AND SHILOH DRIVE. THE MONUMENT IS LOCATED APPROXIMATELY 73' NORTHEAST OF A POWER POLE AND 115' SOUTHEAST OF A WATER MANHOLE STRUCTURE.

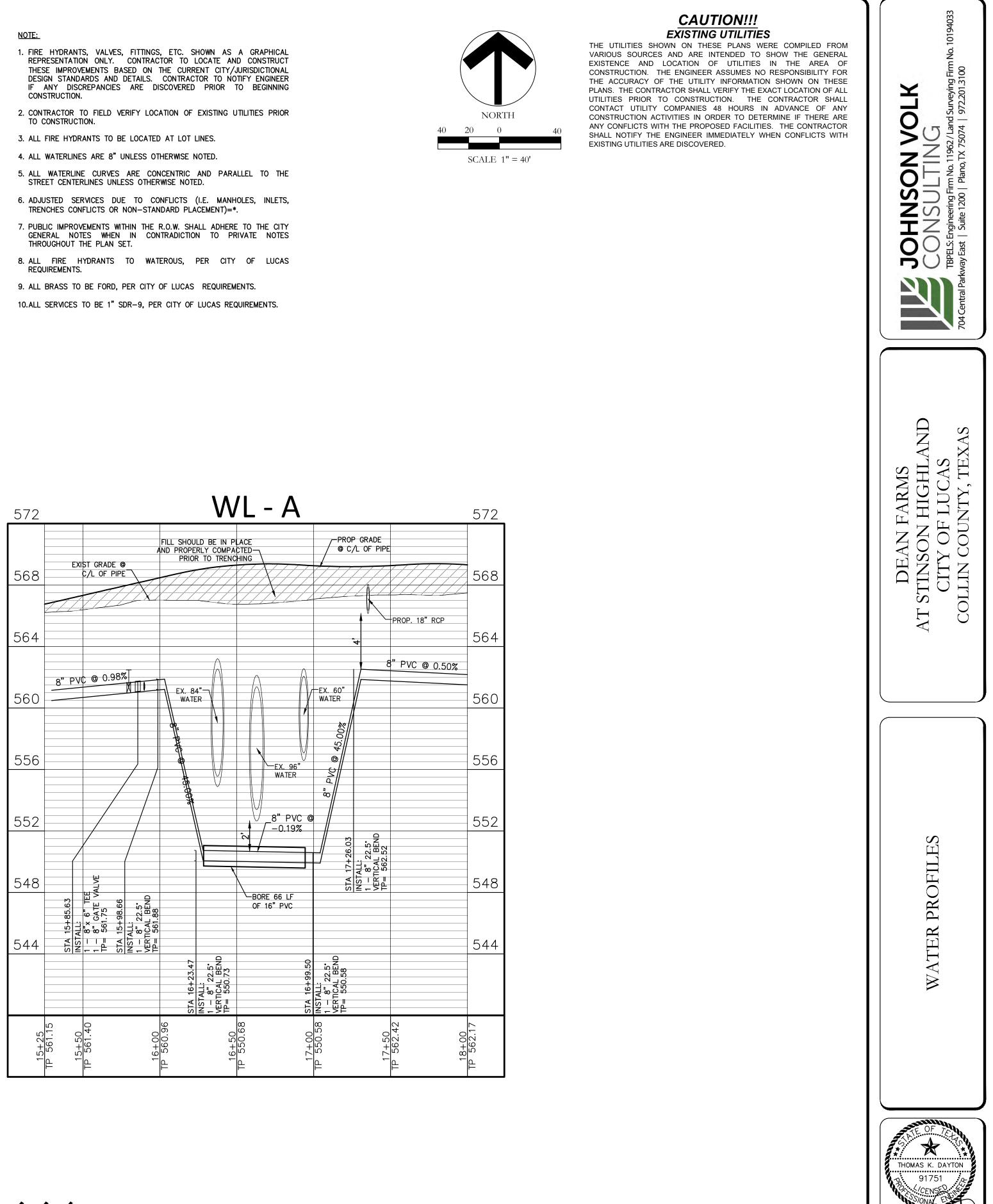
ELEVATION = 587.11'

SQUARE CUT ON NORTHWEST CORNER OF WYE INLET LOCATED AT THE SOUTHWEST CORNER OF STINSON ROAD AND HIGHLAND DRIVE. ELEVATION = 589.40'

- CONSTRUCTION.

- STREET CENTERLINES UNLESS OTHERWISE NOTED.
- TRENCHES CONFLICTS OR NON-STANDARD PLACEMENT)=*.
- THROUGHOUT THE PLAN SET.
- REQUIREMENTS.







JVC No WLA501
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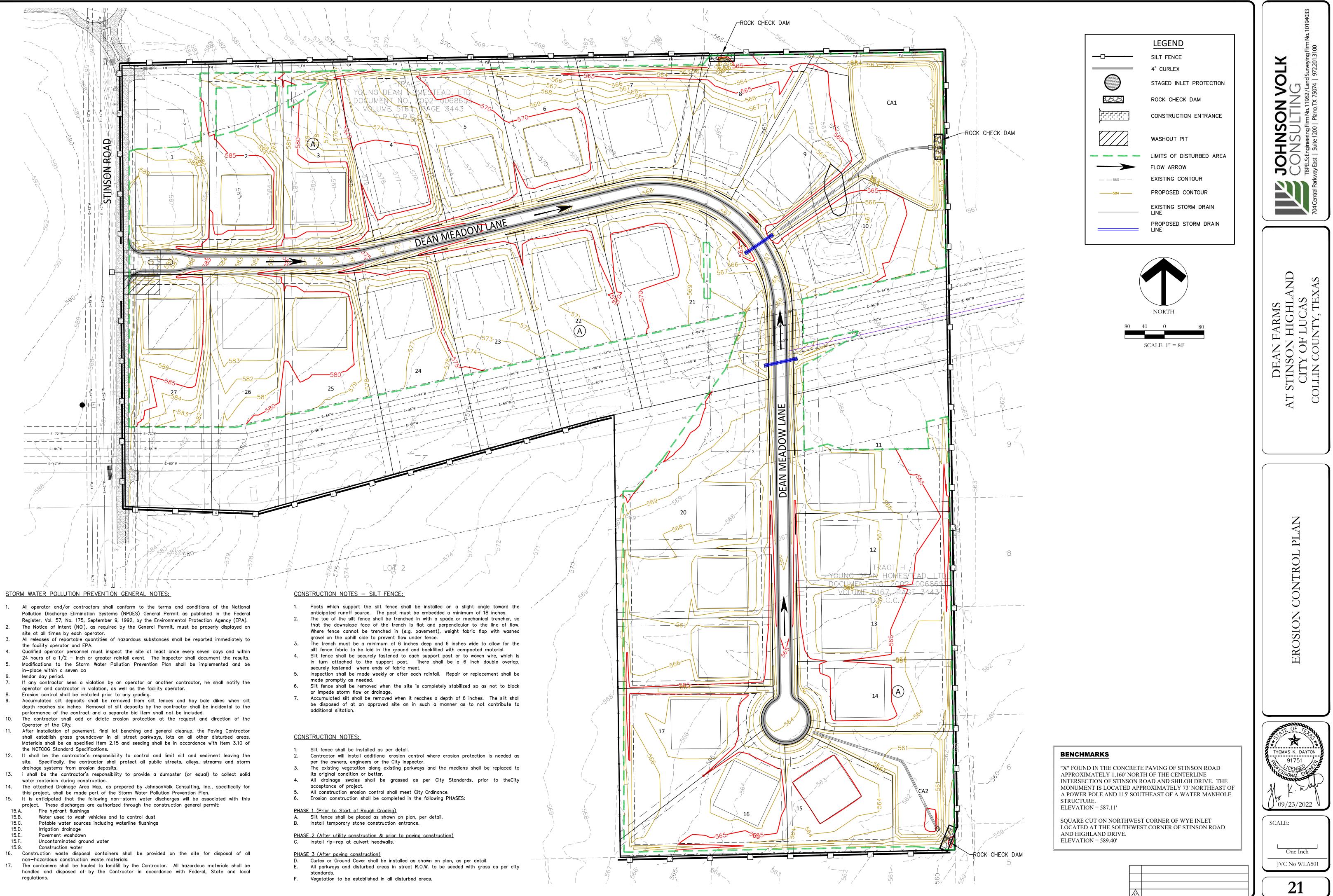
) 09/23/2022

1" = 40' (H)

1'' = 4' (V)

One Inch

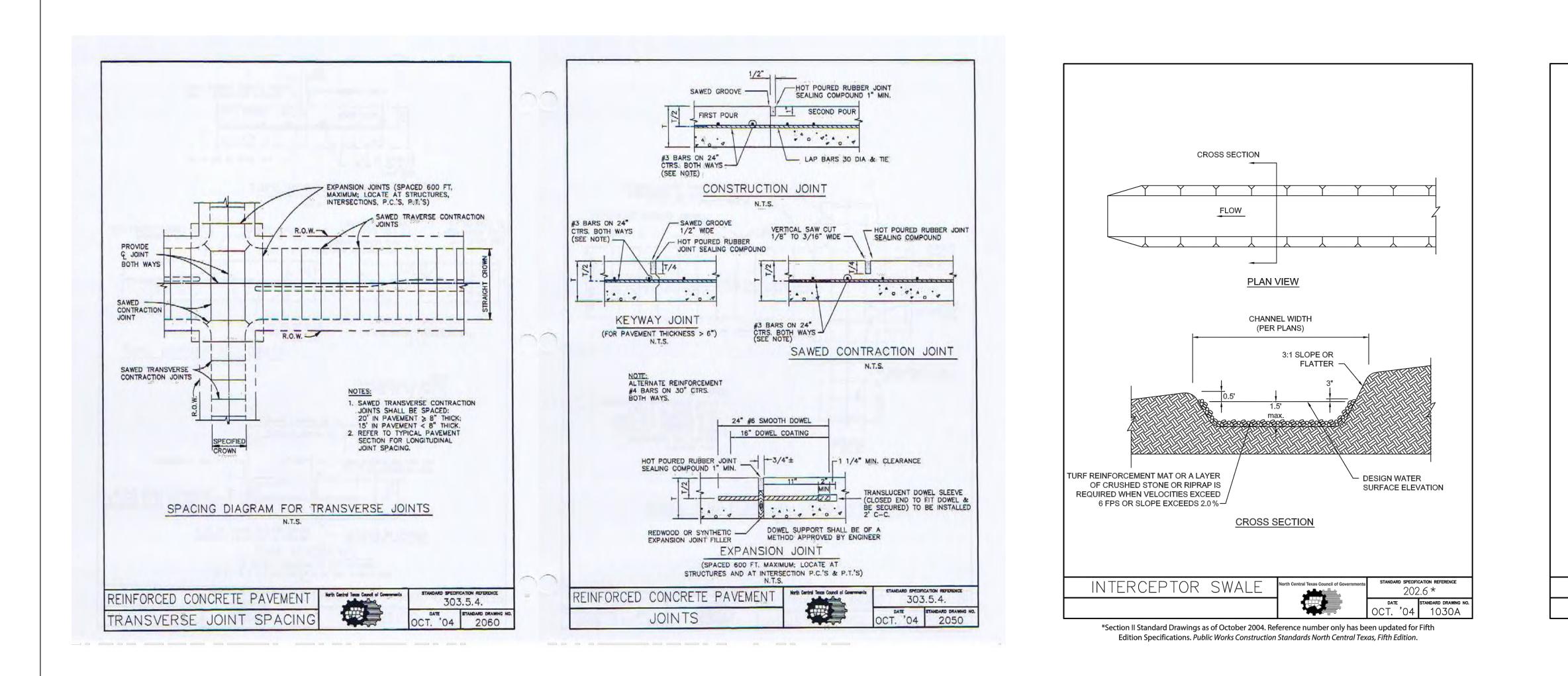
SCALE:

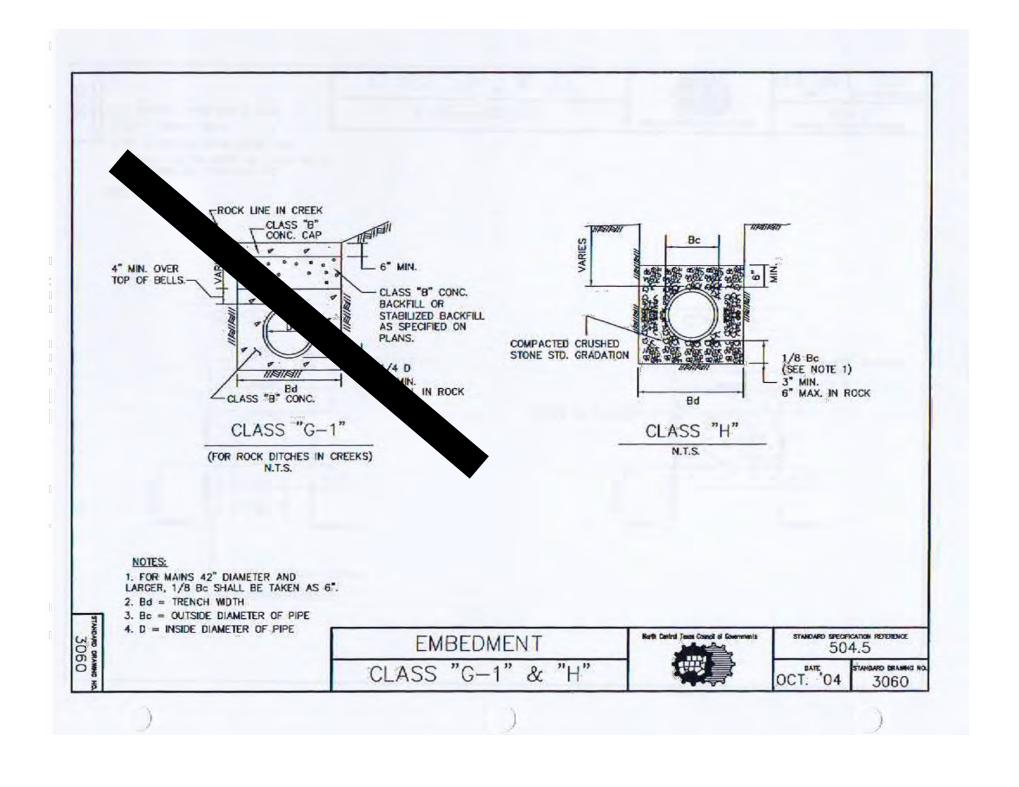


STORM WATER POLLUTION PREVENTION GENERAL NOTES:

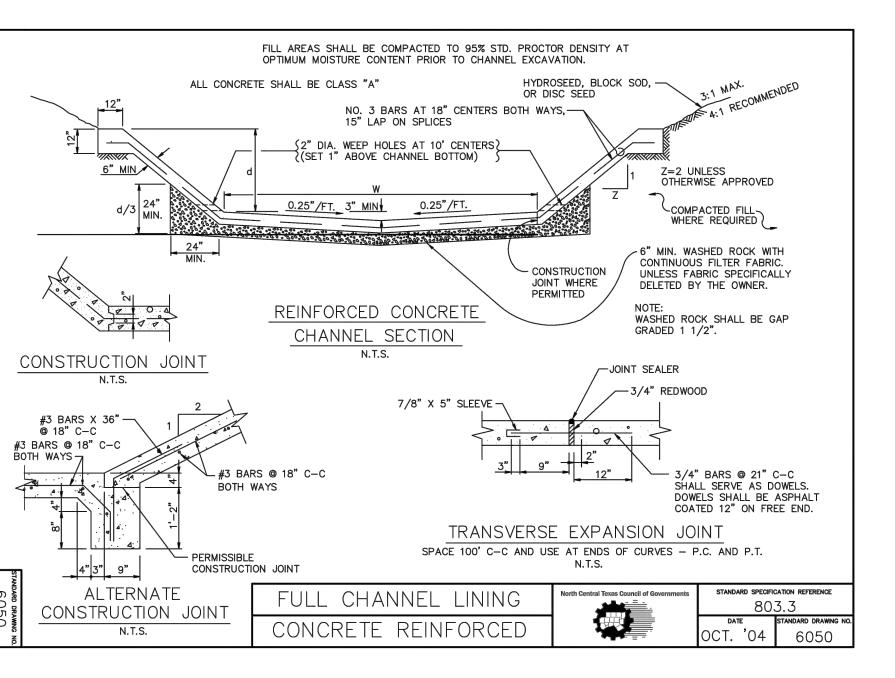
- 2.
- 3.
- 4.
- 5.

- 9. 10. The contractor shall add or delete erosion protection at the request and direction of the
- 11.
- 13. i shall be the contractor's responsibility to provide a dumpster (or equal) to collect solid
- 15. It is anticipated that the following non-storm water discharges will be associated with this
- 15.B.
- 15.C.
- 15.D.
- 15.E. 15.F.
- 15.G.
- 17. The containers shall be hauled to landfill by the Contractor. All hazardous materials shall be





bd projects/wla - warner land advisors/wla501 - homestead at stinson highland/jvc plans/dwg/sheets/construction plans/wla501 - paving & storm details.



INTERCEPTOR SWALE GENERAL NOTES:

1. ALL TREES, BRUSH, STUMPS, OBSTUCTIONS AND OTHER MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.

2. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS-SECTION AS REQUIRED TO MEET CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.

3. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROVED SPOILS SITE SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.

4. DIVERTED RUNOFF FROM A DISTURBED OR EXPOSED UPLAND AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.

5. THE ON-SITE LOCATION MAY NEED TO BE ADJUSTED TO MEET FIELD CONDITIONS IN ORDER TO UTILIZE THE MOST SUITABLE OUTLET.

6. FOR GRADES LESS THAN 2 PERCENT AND VELOCITIES LESS THAN 6 FEET PER SECOND, THE MINIMUM REQUIRED CHANNEL STABILIZATION SHALL BE GRASS, EROSION CONTROL MATS OR MULCHING. FOR GRADES IN EXCESS OF 2 PERCENT OR VELOCITIES EXCEEDING 6 FEET PER SECOND, STABILIZATION IS REQUIRED IN THE FORM OF TURF REINFORCEMENT MATS (OR A LAYER OF CRUSHED STONE OR RIP-RAP WITH APPROPRIATE SIZE, GRADATION, AND THICKNESS AS SPECIFIED IN THE SWPPP).

7. MINIMUM COMPACTION FOR THE SWALE SHALL BE 90 PERCENT STANDARD PROCTOR.

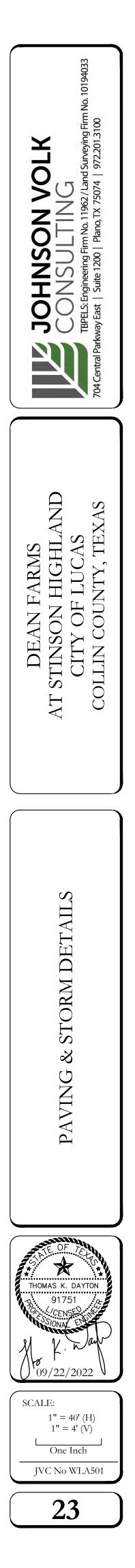
8. INSPECTION SHALL BE AS SPECIFIED IN THE SWPPP.

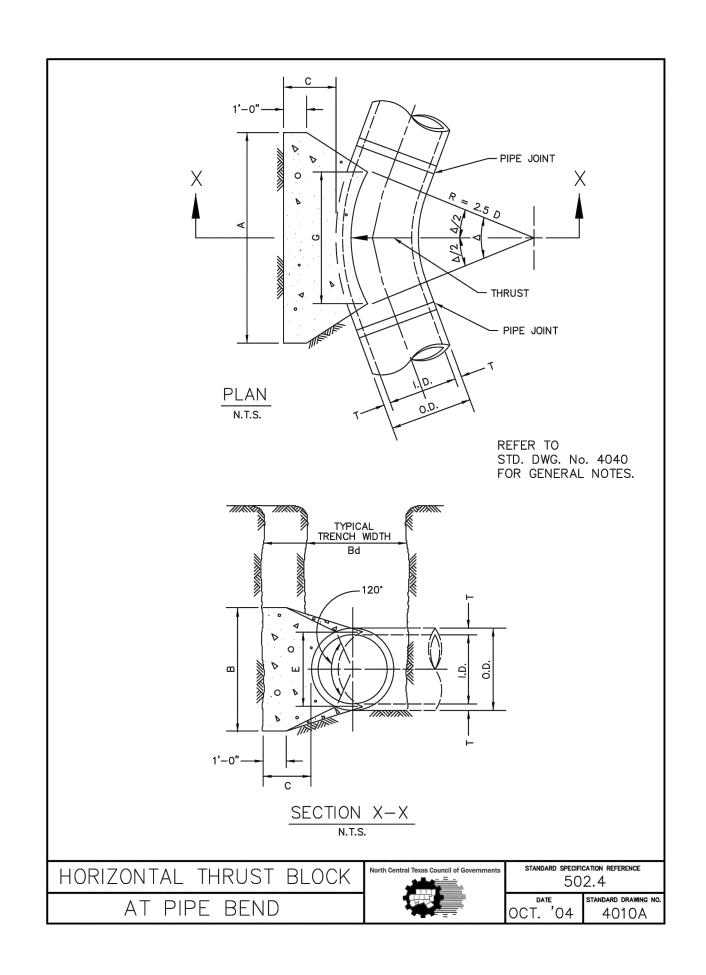
INTERCEPTOR	SWALE	No

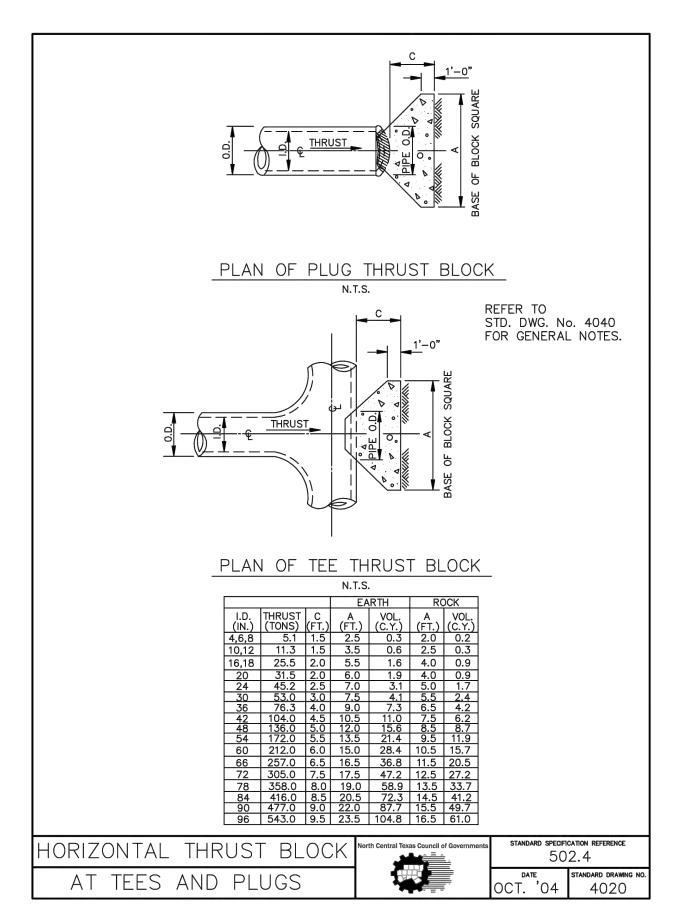
standard specification reference 202.6 * date OCT. '04 1030B

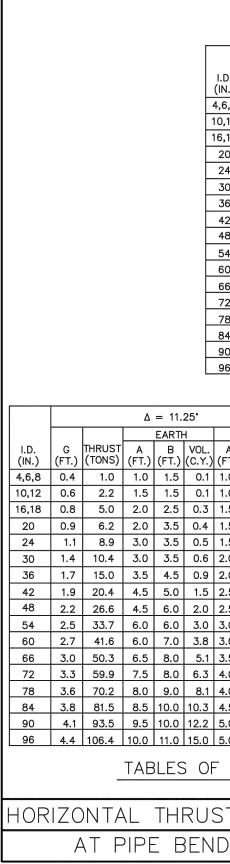
*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition*.

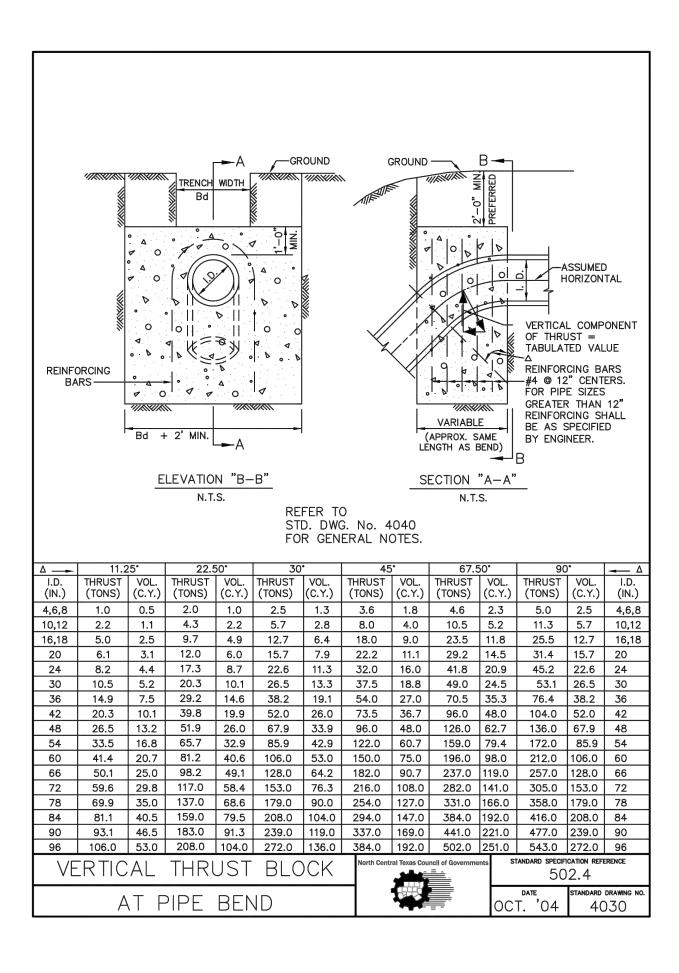
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I.D. IN.)	T (IN.	.	△ = 11.25 C (FT.)	· 2	∆ ≌ 22.50° C (FT.)	Е (FT.)						
,6,8	0.4		1.5		1.5	0.9						
0,12	0.5		1.5		1.5	1.2						
6,18	0.6		1.5		1.5	1.6						
20	0.7		1.5		1.5	1.8						
24	0.9		1.5		1.5	2.1						
30	2.9		1.5		1.9	2.6						
36	4.5		1.5	_	2.3	3.3						
42	5.0		1.8	_	2.6	3.8						
48	5.5		2.0	-	3.0	4.3						
54 60	6.0		2.3	-	3.4	4.8						
60 66	6.5 6.8		2.5 2.8	+	3.8 4.1	5.3 5.7						
72	7.5		3.0	+	4.5	6.3						
<u>78</u>	7.5		3.3		4.9	6.7						
<u>, o</u> 84	8.0		3.5		5.3	7.2						
90	8.5		3.8		5.6	7.7						
96	9.0		4.0		6.0	8.2						
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	ROCK		┥.	_		TUDUCT		EAR		•	ROCH	
A (FT.)	В (FT.)	VOL (C.Y		D. N.)	G (FT.)	THRUST (TONS)	A (FT.)	В (FT.)	VOL. (C.Y.)	A (FT.)	В (FT.)	VOL. (C.Y.)
1.0	1.0	0.1	4,	5,8	0.8	2.0	1.5	1.5	0.1	1.0	1.0	0.1
1.0	1.5	0.1	10	,12	1.1	4.4	2.0	2.5	0.3	1.5	1.5	0.1
1.5	2.0	0.2	16	,18	1.6	9.9	3.0	3.5	0.6	2.0	2.5	0.3
1.5	3.0	0.3	2	0	1.8	12.3	3.5	3.5	0.7	2.0	3.0	0.4
1.5	3.0	0.3	2	.4	2.2	17.7	4.0	4.5	1.0	3.0	3.5	0.5
2.0	3.5	0.4		0	2.7	20.7	5.0	4.5	1.5	3.0	4.0	0.8
2.0	4.0	0.5	-	6	3.3	29.8	5.5	5.5	2.3	4.0	4.0	1.3
2.5	5.0	0.8		2	3.8	40.5	7.0	6.0	3.9	4.5	5.0	2.1
2.5	6.0	1.1		8	4.4	52.9	8.0	7.0	5.7	4.5	6.0	2.8
3.0	6.0	1.4		<u>4</u>	4.9	67.0	9.0	8.0	8.0	6.0	6.0	4.1
3.0	7.0	1.8	+	0 6	5.5	82.7	9.5	9.0	10.6	6.0	7.0	5.3
3.5	8.0	2.7		6 72	6.0	100.1	10.5	10.0	14.1	6.5	8.0	7.2
4.0	8.0	3.3		'2 '8	6.6	119.1	11.0	11.0	17.6	7.5	8.0	9.1
4.0 4 5	9.0	<u>3.9</u> 5.3		' <u>8</u> 4	7.1	139.8 162.1	12.0 13.0	12.0 12.5	22.5 27.2	8.0 8.5	9.0 10.0	11.7 14.8
4.5 5.0	10.0 10.0	6.3		0	7.6 8.2	186.1	14.0	13.5	33.7	9.5	10.0	14.0
5.0	11.0	7.4		6	8.7	211.7	15.0	14.5	41.2	10.0	11.0	21.8
										10.0	11.0	21.0
D	IMEI	٧S	ION	S	AN	D QU	ANT	ITIE	S			
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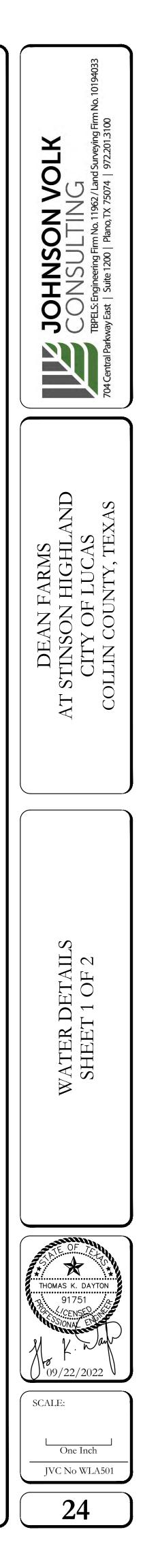
Т	BLOCK	North Central Texas Council of Governments	standard specification reference 502.4					
)			OCT. '04		standard drawing no. 4010B			

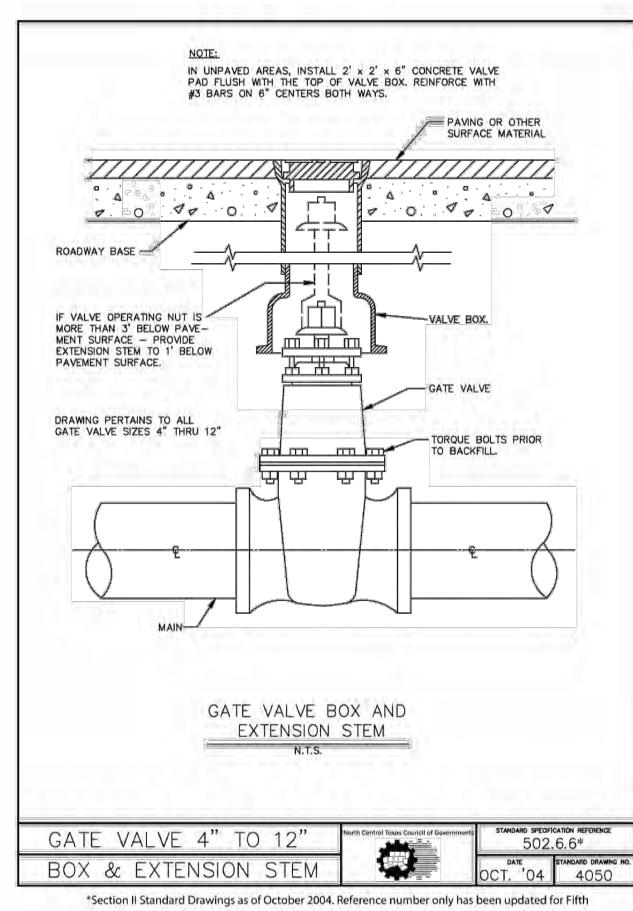
			Δ	= 30	•						Δ	= 45					
				EART	H		ROCK						EAR	гн		ROCK	
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	В (FT.)	VOL. (C.Y.)	A (FT.)	В (FT.)	VOL. (C.Y.)	I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	В (FT.)	VOL. (C.Y.)	A (FT.)	В (FT.)	VOL. (C.Y.)
4,6,8	1.0	2.6	2.0	1.5	0.2	1.0	1.5	0.1	4,6,8	1.5	3.9	2.0	2.0	0.2	1.5	1.5	0.1
10,12	1.5	5.9	2.5	2.5	0.3	2.0	1.5	0.2	10,12	2.2	8.7	3.5	2.5	0.5	2.0	2.5	0.3
16,18	2.2	13.2	3.5	4.0	0.8	2.5	3.0	0.4	16,18	3.2	19.5	4.5	4.5	1.2	3.0	3.5	0.6
20	2.4	16.3	4.5	4.0	1.0	3.0	3.0	0.5	20	3.6	24.1	5.5	4.5	1.5	3.5	3.5	0.7
24	2.9	23.4	6.0	4.0	1.4	3.5	3.5	0.7	24	4.3	34.6	8.0	4.5	2.3	4.5	4.0	1.
30	3.6	27.5	6.5	5.0	1.9	3.5	4.0	0.9	30	5.4	40.6	8.5	5.0	3.2	5.5	4.0	1.6
36	4.4	39.5	7.0	6.0	3.4	4.5	4.5	1.6	36	6.5	58.5	10.0	6.0	5.3	6.5	4.5	2.6
42	5.1	53.8	8.0	7.0	5.1	5.5	5.0	2.5	42	7.5	79.6	11.5	7.0	8.1	8.0	5.0	4.2
48	5.8	70.3	9.0	8.0	7.4	6.0	6.0	3.7	48	8.6	104.0	13.0	8.0	11.9	9.0	6.0	6.3
54	6.5	89.0	10.0	9.0	10.3	7.0	6.5	5.3	54	9.7	131.5	15.0	9.0	17.1	10.5	6.5	8.9
60	7.3	110.0	11.0	10.0	13.9	7.5	7.5	7.3	60	10.7	162.4	16.5	10.0	23.1	11.0	7.5	12.0
66	8.0	132.9	12.5	11.0	18.9	8.5	8.0	9.6	66	11.8	196.5	18.0	11.0	30.1	12.0	8.5	16.2
72	8.7	158.2	13.5	12.0	24.0	9.0	9.0	12.3	72	12.9	233.9	19.5	12.0	38.6	14.0	8.5	20.7
78	9.4	185.6	14.5	13.0	30.0	10.0	9.5	15.6	78	13.9	274.5	21.5	13.0	49.8	14.5	9.5	25.9
84	10.1	215.3	15.5	14.0	37.1	10.5	10.5	19.5	84	15.0	318.4	23.0	14.0	61.2	15.5	10.5	32.6
90	10.9	247.1	16.5	15.0	45.0	11.5	11.0	23.9	90	16.1	365.5	24.5	15.0	74.5	17.5	10.5	39.6
96	11.6	281.2	18.0	16.0	55.5	12.5	11.5	28.9	96	17.1	415.6	26.0	16.0	89.5	18.5	11.5	48.5
				= 67 EART	Н		ROCK					= 90	EAR			ROCK	1
I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	VOL. (C.Y.)	I.D. (IN.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	(FT.)	B) (FT.)	VOL
4,6,8	2.1	5.6	3.0	2.0	0.3	2.0	1.5	0.2	4,6,8	2.7	7.1	5.0	1.5	0.4	2.0	1 · · · /	0.2
10,12	3.1	12.6	5.5	2.5	0.8	3.5	2.0	0.4	10,12	4.0	16.0	6.5	2.5	1.0	3.5	2.5	0.5
16,18	4.7	28.3	7.5	4.0	1.9	5.5	3.0	0.9	16,18	6.0	36.0	9.0	4.0	2.4	4.5	4.0	1.0
20	5.2	34.9	9.0	4.0	2.3	5.5	3.5	1.2	20	6.6	44.4	10.0	4.5	3.1	6.0	4.0	1.5
24	6.2	50.3	11.5	4.5	3.5	6.5	4.0	1.6	24	7.9	64.0	14.5	4.5	5.0	8.0	4.0	2.
30	7.8	58.9	12.0	5.0	4.8	7.5	4.0	2.2	30	9.9	75.0	15.0	5.0	6.7	10.0	4.0	3.3
36	9.4	84.9	14.5	6.0	8.2	9.5	4.5	3.8	36	11.9	108.0	18.0	6.0	11.4	12.0	4.5	5.3
42	10.9	115.5	17.0	7.0	12.8	11.0	5.5	6.3	42	13.9	147.0	21.0	7.0	17.8	14.0	5.5	8.7
48	12.5	150.9	19.0	8.0	18.4	13.0	6.0	9.2	48	15.9	192.0	24.0	8.0	26.2	16.0	6.0	12.4
54	14.0	191.0	21.5	9.0	26.0	15.0	6.5	12.9	54	17.9	243.0	27.0	9.0		18.0		18.1
60	15.6			10.0			7.5	17.6	60	19.9	299.8		10.0		20.0		24.0
66	17.1		26.0	11.0				23.0	66	21.8	362.8		11.0		22.0		32.5
72	18.7	339.5	28.5	12.0			9.0	28.4	72	23.8	431.8	36.0	12.0		24.0		41.0
78	20.2	398.5			75.7			37.4	78	25.7	506.7	39.0	13.0	108.2	26.0	10.0	53.2
84	21.8	462.1	33.5	14.0	94.7	22.0			84	27.7	587.7	42.0	14.0			10.5	
90	23.3				114.4				90	29.0	674.6	45.0	15.0	164.9	30.0	11.5	81.2
96	24.9	603.6	38.0	16.0	138.9	25.5	12.0	70.0	96	31.6	767.5	48.0	16.0	199.0	32.0	12.0	95.1
			TAI	BLE	<u>s o</u>	FC	IME	NSI	ONS	AN	D QL	IAN	TITIE	<u>s</u>			
HORIZONTAL THRUST BLOCK North Central Texas Council of Governments 502.4								$\cap \cap$	K Nort	h Central	Fexas Council of	Governm	ents	STANDAR			FERENCE
+()⊢	HORIZONIAL HIRUSI BLUC					1 1 1			-			502	1.4				
104														DATE		STANDAR	

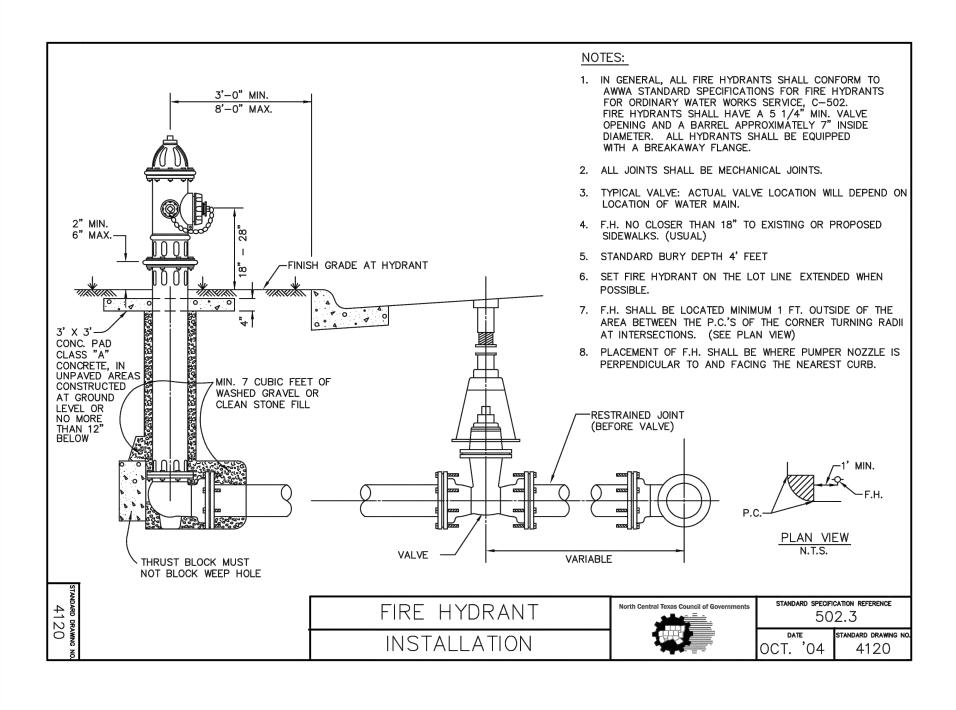
GENERAL NOTES FOR ALL THRUST BLOCKS:

- 1. CONCRETE FOR BLOCKING SHALL BE CLASS "B".
- 2. ALL CALCULATIONS ARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR DUCTILE IRON, P.V.C., AND 150 PSI FOR CONCRETE PIPE.
- 3. VOLUMES OF THRUST BLOCKS ARE NET VOLUMES OF CONCRETE TO BE FURNISHED. THE CORRESPONDING WEIGHT OF THE CONCRETE (CLASS "B") IS EQUAL TO OR GREATER THAN THE VERTICAL COMPONENT OF THE THRUST ON THE VERTICAL BEND.
- 4. WALL THICKNESS (T) ASSUMED HERE FOR ESTIMATING PURPOSES ONLY.
- 5. POUR CONCRETE FOR BLOCK AGAINST UNDISTURBED EARTH.
- 6. DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY THE ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
- 7. THE SOIL BEARING PRESSURES ARE BASED ON 1000 LBS./S.F. IN SOIL AND 2000 LBS./S.F. IN ROCK.
- 8. USE POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BEND, TEE, OR PLUG TO PREVENT THE CONCRETE FROM STICKING TO IT.
- 9. CONCRETE SHALL NOT EXTEND BEYOND JOINTS.

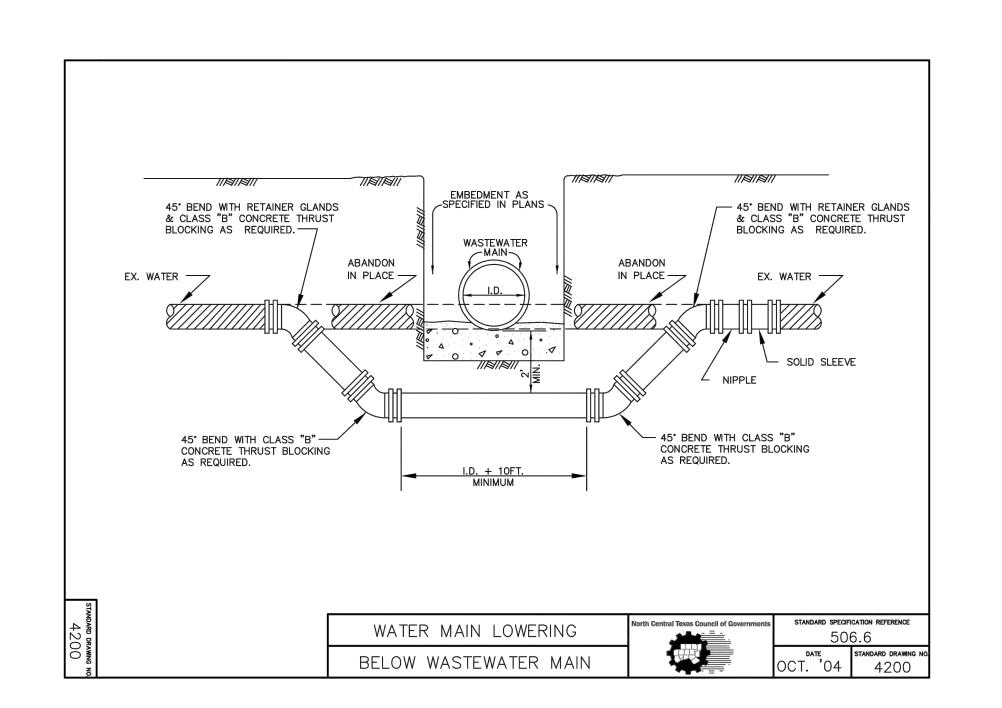
THRUST BLOCK	North Central Texas Council of Governments	standard specification referent 502.4	INCE
GENERAL NOTES		DATE STANDARD DI OCT. '04 404	



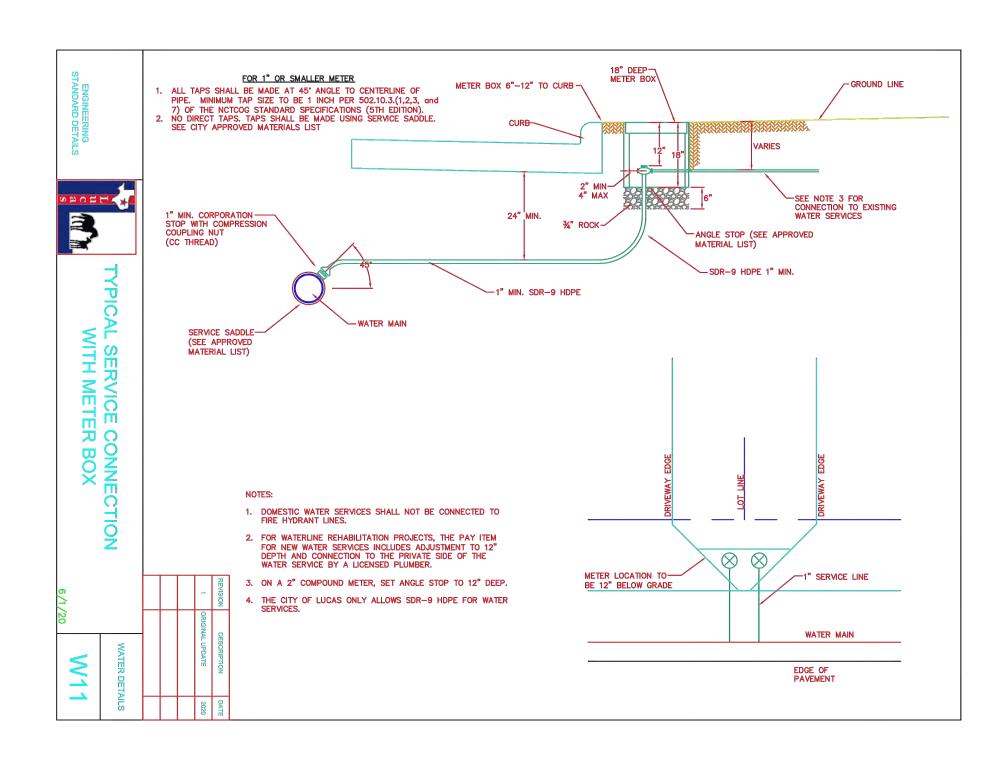


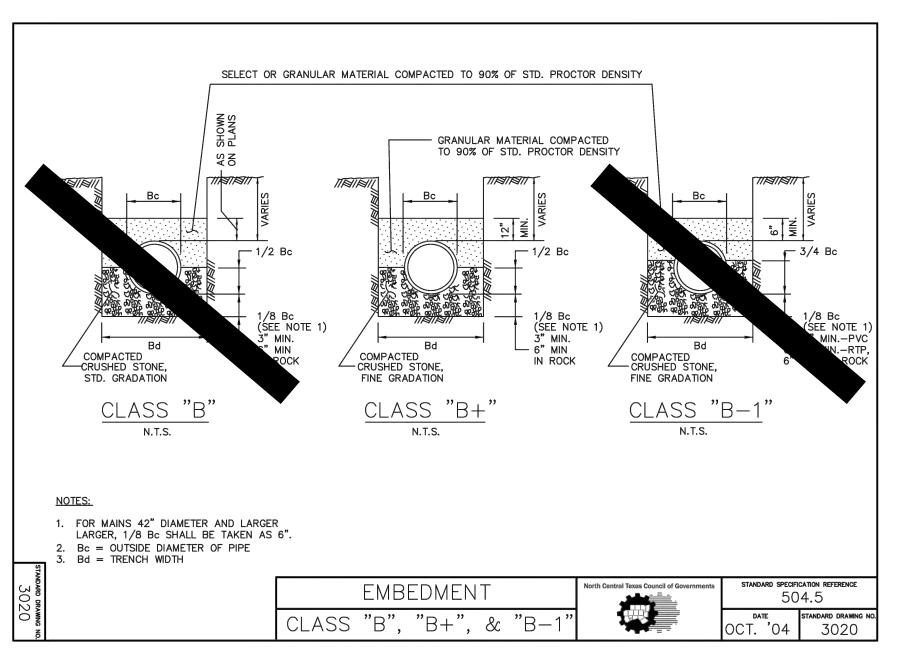


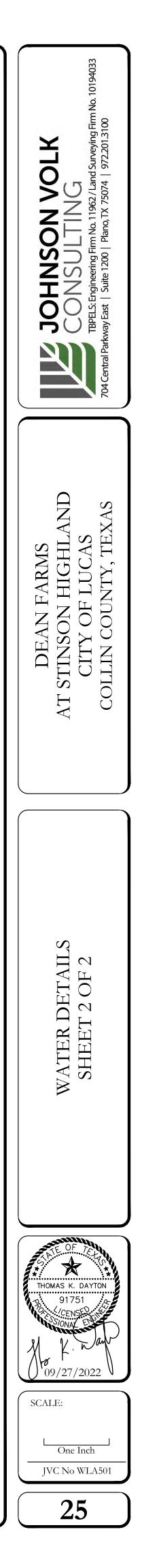
Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.

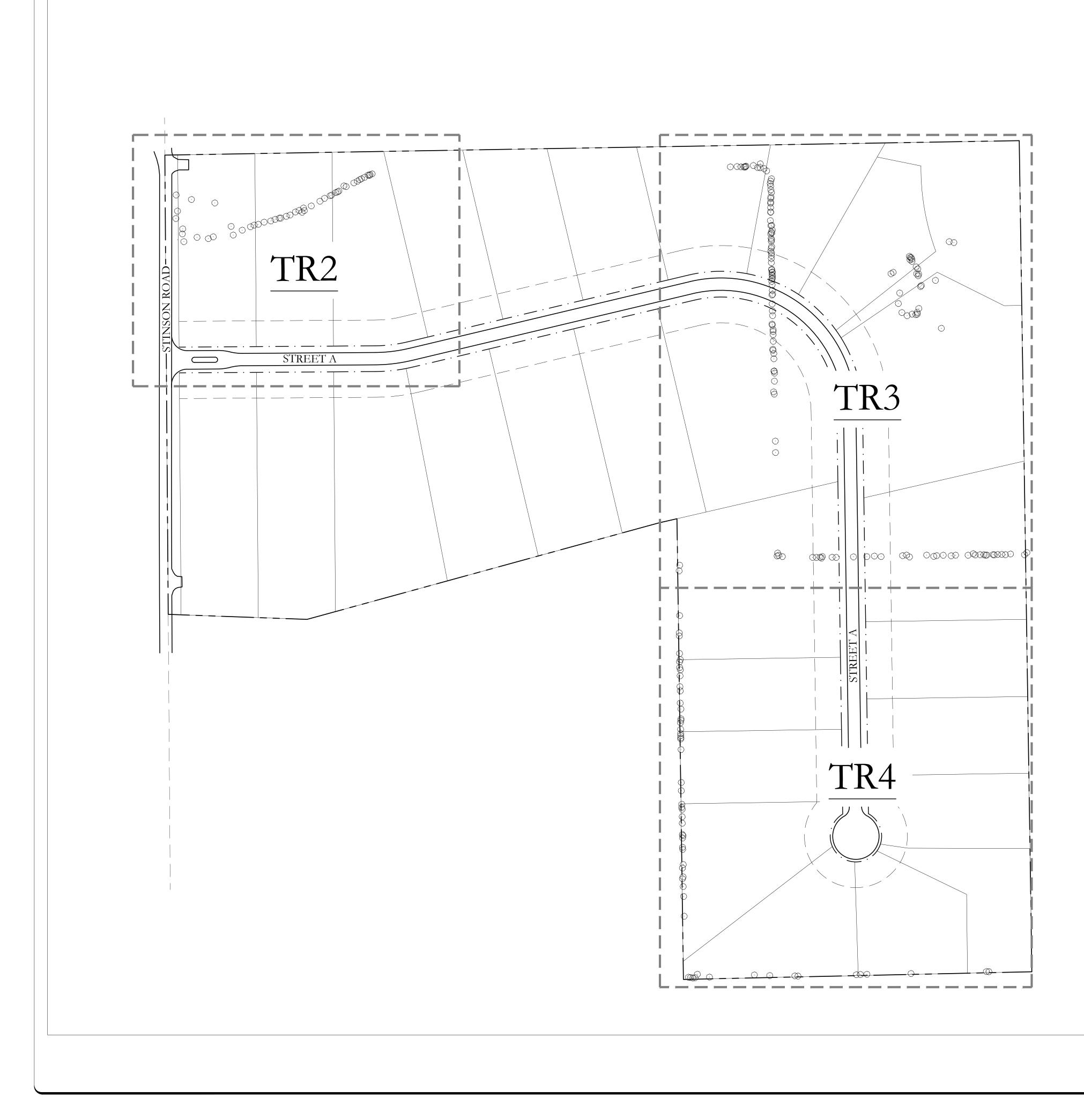


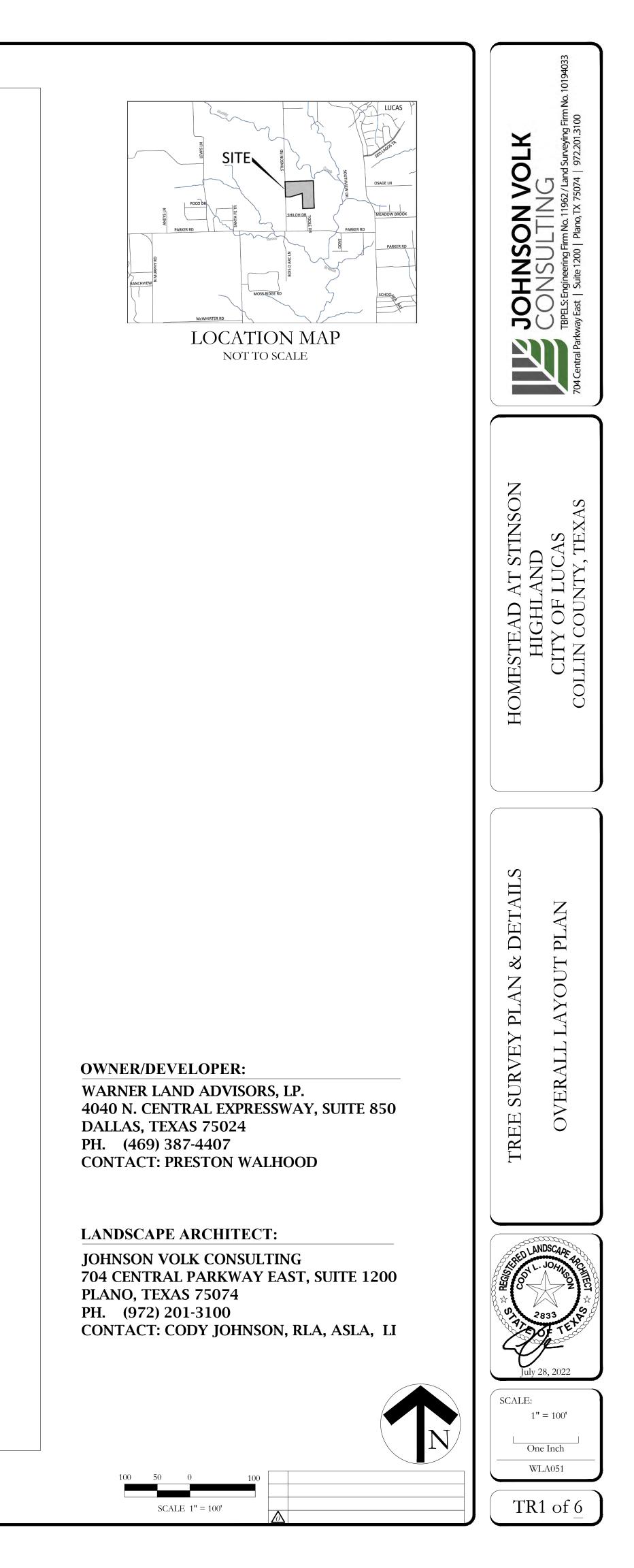
1 3d projects\wla - warner land advisors\wla501 - homestead at stinson highland\jvc plans\dwg\sheets\construction plans\wla501 - water details

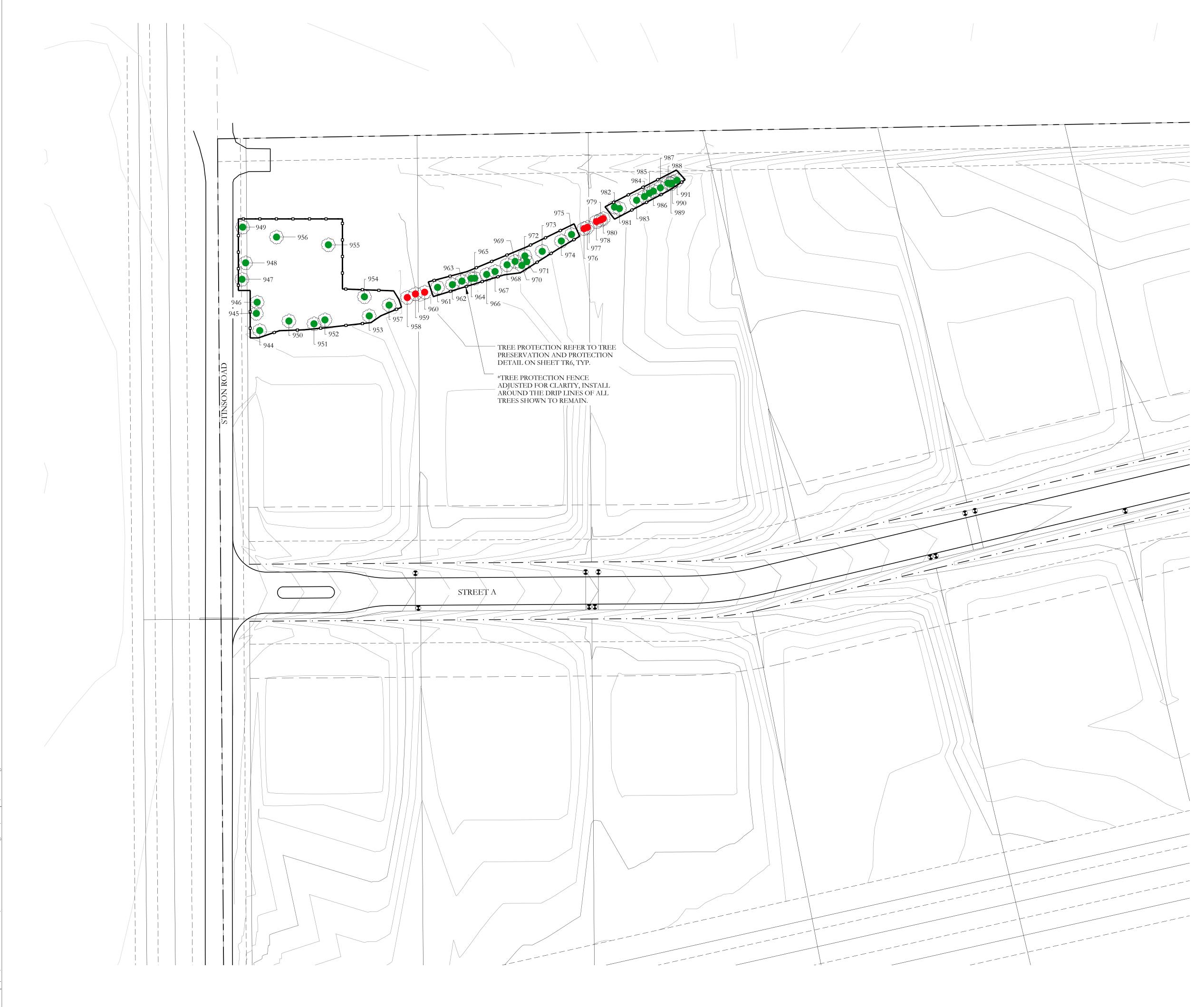












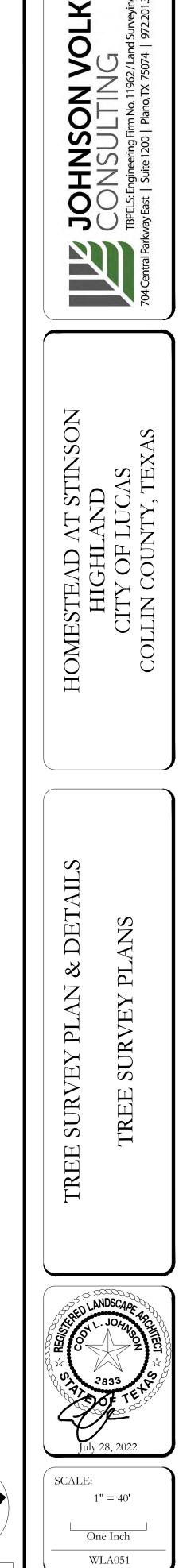


- EXISTING TREE TO BE REMOVED

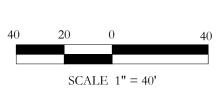
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EXISTING TREE LOCATED OFF-SITE TO REMAIN TREE PROTECTION REFER TREE PRESERVATION AND PROTECTION DETAIL ON SHEET TR2 -0----0-----

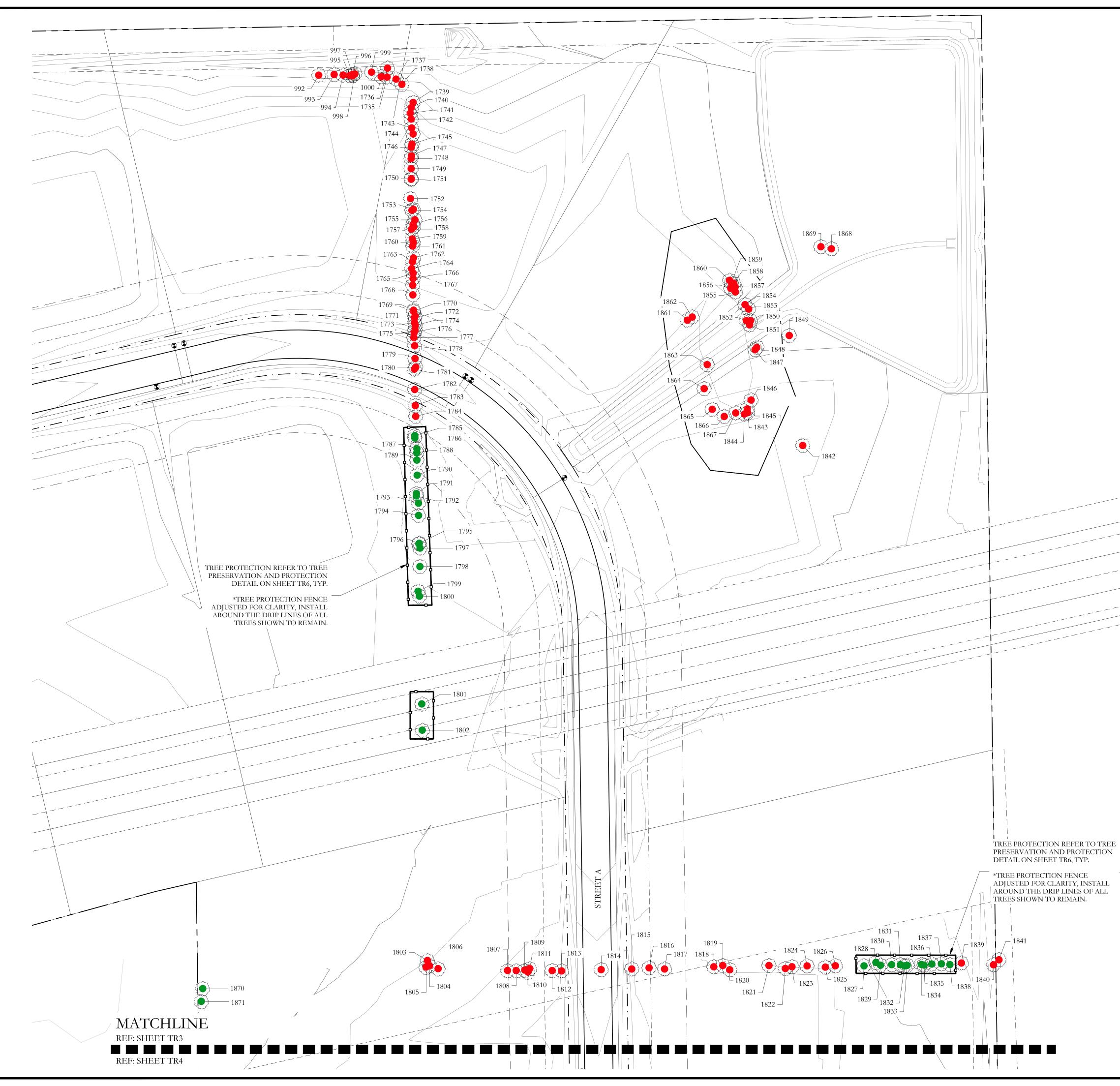
INSTALL TREE PROTECTION FENCE AROUND THE DRIP LINES OF ALL TREES SHOWN TO REMAIN. TYP.



TR2 of $\underline{6}$







LEGEND

- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO REMAIN
- EXISTING TREE LOCATED OFF-SITE TO REMAIN ____2

TREE PROTECTION REFER TREE PRESERVATION AND PROTECTION DETAIL -0-----ON SHEET TR2

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1" = 40'

One Inch

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TR3 of 6

SCALE:

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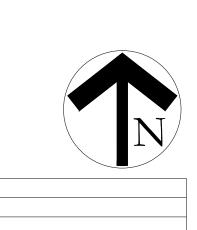
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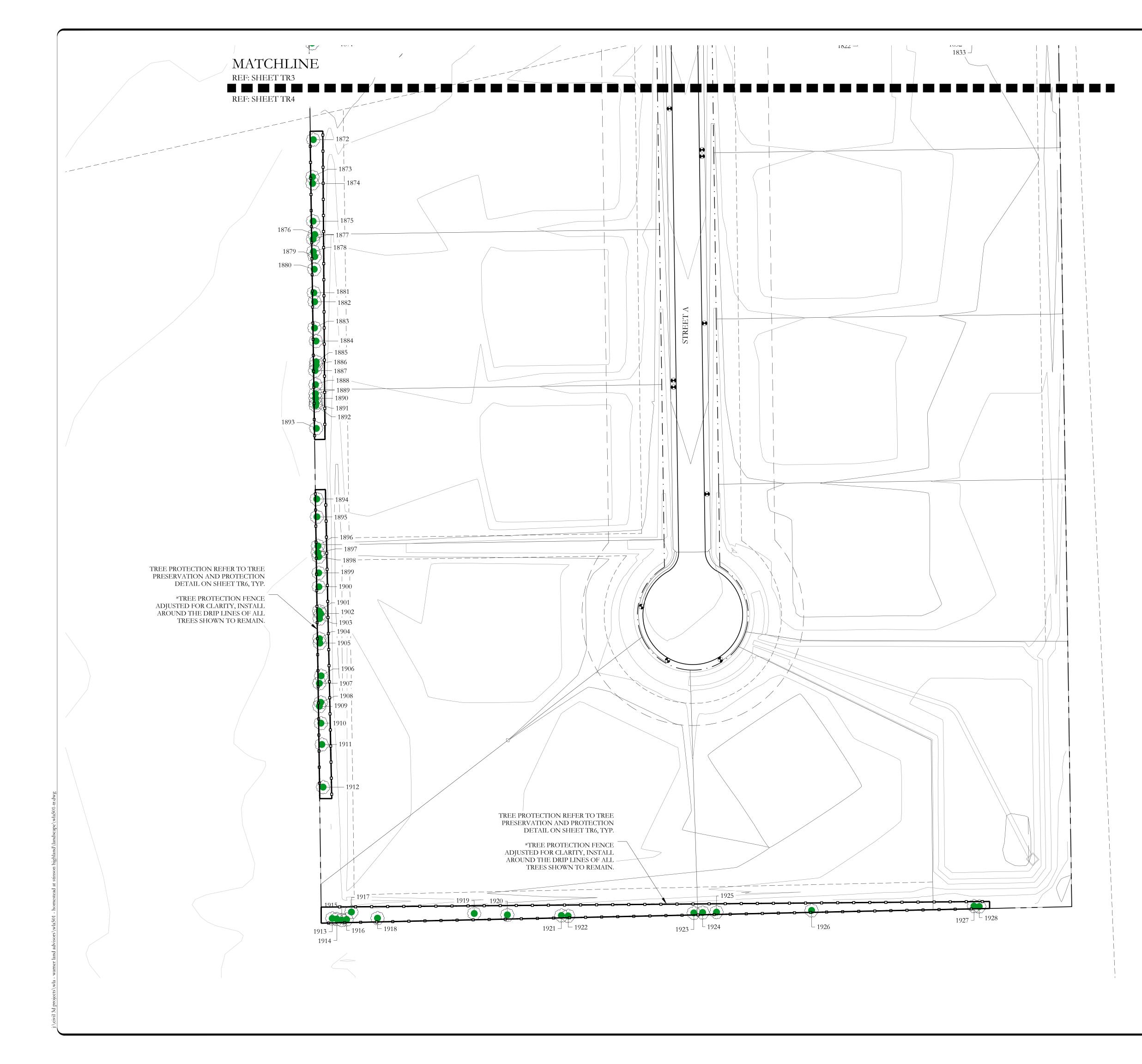
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INSTALL TREE PROTECTION FENCE AROUND THE DRIP LINES OF ALL TREES SHOWN TO REMAIN. TYP.





0 2	20	0	2
	SCALE	2 1" = 40'	



LEGEND

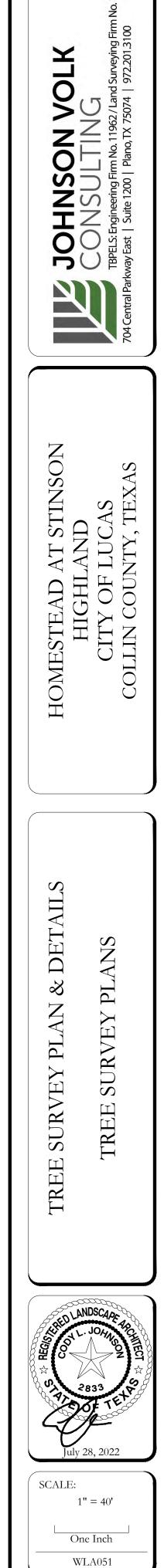
13	EXISTING TREE TO BE REMOVED
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EXISTING TREE TO REMAIN



TREE PROTECTION REFER TREE PRESERVATION AND PROTECTION DETAIL ON SHEET TR6

INSTALL TREE PROTECTION FENCE AROUND THE DRIP LINES OF ALL TREES SHOWN TO REMAIN. TYP.



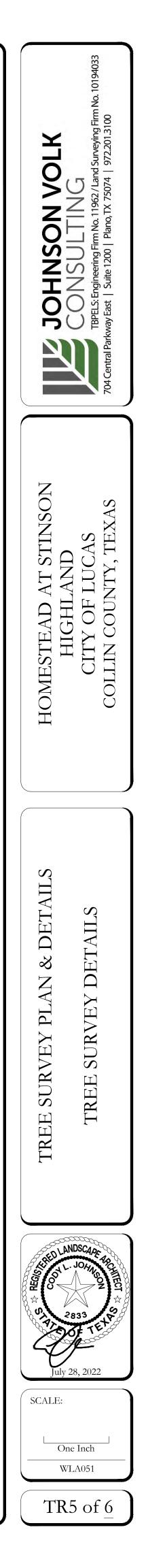
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TR4 of 6

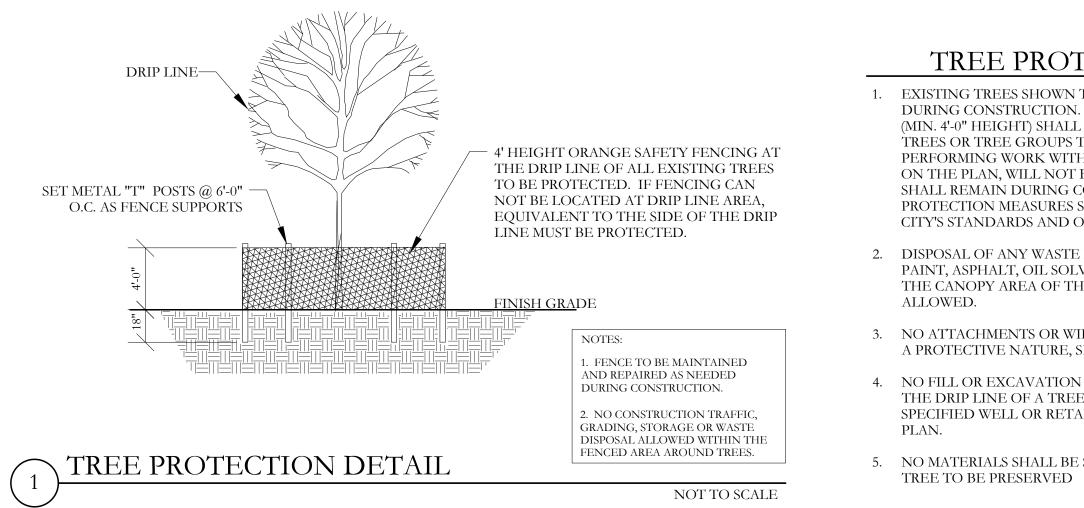
4() 2	.0 () .
		SCALE	1" = 40'

Tree ID Number	Diameter at Breast Height (DBH) (inches)	Common Name	Scientific Name	Protected Tree?	Condition	Comment	Location	Remove or Remain	Mitigation Required, Percentage	Mitigatio Required Caliper Inches
944	6.0	Yaupon Holly	Ilex vomitoria	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
945 946	24.0 27.6	Pecan Hackberry	Celtis occidentalis Celtis occidentalis	Yes No	Healthy Healthy		Lot Lot	Remain Remain	0%	0.0
947	18.0	Crape Myrtle	Lagerstromia	No	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
948 949	13.2 12.0	White Poplar White Poplar	Populus alba Populus alba	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot Lot	Remain Remain	0% 0%	0.0
950	24.0	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
951 952	7.2 24.0	Hackberry Cedar Elm	Celtis occidentalis Ulmus crassifolia	No Yes	Healthy Healthy	Multi-Trunk	Lot Lot	Remain Remain	0% 0%	0.0
953	8.4	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
954 955	34.8 36.0	Red Oak Hackberry	Qurecus texana Celtis occidentalis	Yes No	Healthy Healthy	Multi-Trunk	Lot Lot	Remain Remain	0% 0%	0.0
956 957	20.4	Pecan	Carya illinoinensis	Yes	Healthy		Lot	Remain	0% 0%	0.0
957	9.6 18.0	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Lot Lot	Remain Remove	0%	0.0
959 960	15.6 12.0	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Lot	Remove Remove	0% 0%	0.0
961	7.2	Hackberry	Celtis occidentalis Celtis occidentalis	No	Healthy		Lot Lot	Remain	0%	0.0
962 963	24.0 16.8	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot	Remain Remain	0% 0%	0.0
964	8.4	Hackberry	Celtis occidentalis Celtis occidentalis	No	Healthy		Lot Lot	Remain	0%	0.0
965 966	36.0 19.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot Lot	Remain Remain	0% 0%	0.0
967	19.2	Hackberry	Celtis occidentalis Celtis occidentalis	No	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
968 969	24.0	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk Multi-Trunk	Lot	Remain Remain	0%	0.0
970	36.0 7.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remain	0%	0.0
971 972	26.4 12.0	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Lot Lot	Remain Remain	0% 0%	0.0
973	24.0	Hackberry	Celtis occidentalis	No	Healthy		Lot Lot	Remain	0%	0.0
974 975	25.2 24.0	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot Lot	Remain Remain	0% 0%	0.0
976	25.2	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk Multi-Trunk	Lot	Remove	0%	0.0
977 978	8.4 16.8	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Lot Lot	Remove Remove	0% 0%	0.0
979	9.6	Hackberry	Celtis occidentalis Celtis occidentalis	No	Healthy		Lot	Remove	0%	0.0
980 981	12.0 10.8	Hackberry Hackberry	Celtis occidentalis	No No	Healthy		Lot	Remove Remain	0% 0%	0.0
982	18.0	Hackberry	Celtis occidentalis Celtis occidentalis	No	Healthy Healthy	Multi-Trunk	Lot Lot	Remain	0%	0.0
983 984	24.0 13.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remain Remain	0% 0%	0.0
985	13.2	Hackberry	Celtis occidentalis Celtis occidentalis	No	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
986 987	32.4 34.8	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot Lot	Remain Remain	0%	0.0
988	21.6	Hackberry	Celtis occidentalis Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
989 990	12.0 10.8	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remain Remain	0% 0%	0.0
991	7.2	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
992 993	51.6 14.4	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Lot Lot	Remain Remove	0%	0.0
994	14.4	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Lot	Remove	0%	0.0
995 996	7.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remove Remove	0%	0.0
997	7.2	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remove	0%	0.0
998 999	8.4 18.0	Cedar Elm Cedar Elm	Ulmus crassifolia Ulmus crassifolia	Yes Yes	Healthy Healthy	Multi-Trunk	Lot Lot	Remove Remove	100% 100%	8.4 18.0
1000	10.8	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remove	0%	0.0
1735 1736	12.0 7.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Easement Easement	Remove Remove	0%	0.0
1737	19.2	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Easement	Remove	0%	0.0
1738 1739	21.6 16.8	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot Lot	Remove Remove	0%	0.0
1740	7.2	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remove	0%	0.0
1741 1742	21.6 15.6	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Lot Lot	Remove Remove	0%	0.0
1743	13.2	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remove	0%	0.0
1744 1745	24.0 13.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Lot Lot	Remove Remove	0% 0%	0.0
1746	16.8	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Lot	Remove	0%	0.0
1747 1748	8.4 18.0	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remove Remove	0%	0.0
1749	20.4	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Lot	Remove	0%	0.0
1750 1751	21.6 45.6	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Lot Lot	Remove Remove	0% 0%	0.0
1752	19.2	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Lot	Remove	0%	0.0
1753 1754	8.4 7.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remove Remove	0%	0.0
1755	18.0	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Lot	Remove	0%	0.0
1756 1757	12.0 26.4	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Lot Lot	Remove Remove	0% 0%	0.0
1758	13.2	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remove	0% 0%	0.0
1759 1760	12.0 21.6	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Lot Lot	Remove Remove	0%	0.0
1761 1762	9.6	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Lot Lot	Remove Remove	0% 0%	0.0
1763	21.6 7.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remove	0%	0.0
1764 1765	8.9 36.0	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remove Remove	0% 0%	0.0
1766	19.2	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remove	0%	0.0
1767	24.0	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Lot	Remove	0%	0.0
1768 1769	9.6 8.4	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remove Remove	0% 0%	0.0
1770	16.8	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Easement	Remove	0%	0.0
1771	19.2	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Easement	Remove	0%	0.0
1772 1773	32.4 25.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Damaged	Multi-Trunk	Easement Easement	Remove Remove	0% 0%	0.0
1774	7.2	Hackberry	Celtis occidentalis	No	Healthy		Easement	Remove	0%	0.0
1775 1776	7.2	Hackberry	Celtis occidentalis Celtis occidentalis	No	Healthy	M14: 77 1	Easement	Remove	0% 0%	0.0
1776	15.6 10.8	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Easement Right-Of-Way	Remove Remove	0%	0.0
1778	15.6	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Right-Of-Way	Remove	0%	0.0
1779 1780	12.0	Hackberry	Celtis occidentalis	No	Healthy		Street	Remove	0%	0.0
1/80	12.0	Hackberry	Celtis occidentalis	No	Healthy	1	Street	Remove	0%	0.0

Tree ID Number	Diameter at Breast Height (DBH) (inches)	Common Name	Scientific Name	Protected Tree?	Condition	Comment	Location	Remove or Remain	Mitigation Required, Percentage	Mitigation Required in Caliper Inches
1782	12.0	Hackberry	Celtis occidentalis	No	Healthy		Right-Of-Way	Remove	0%	0.0
1783 1784	30.0	Hackberry	Celtis occidentalis Celtis occidentalis	No	Healthy		Easement	Remove	0%	0.0
1784	12.0 24.0	Hackberry Hackberry	Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Easement Lot	Remove Remain	0%	0.0
1786	8.4	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
1787 1788	10.8 9.6	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remain Remain	0%	0.0
1789	7.2	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
1790 1791	8.4 31.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Lot Lot	Remain Remain	0%	0.0
1791	12.0	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
1793	19.2	Hackberry	Celtis occidentalis	No	Damaged	Multi-Trunk	Lot	Remain	0%	0.0
1794 1795	38.4 27.6	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot Lot	Remain Remain	0%	0.0
1796	31.2	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1797 1798	31.2 27.6	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot Lot	Remain Remain	0%	0.0
1799	13.2	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
1800 1801	9.6 37.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Lot Open Space	Remain Remain	0%	0.0
1802	15.6	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Easement	Remain	0%	0.0
1803	22.8 7.2	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Open Space	Remove	0%	0.0
1805 1804	10.8	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Open Space Open Space	Remove Remove	0% 0%	0.0
1806	9.6	Hackberry	Celtis occidentalis	No	Healthy		Open Space	Remove	0%	0.0
1807 1808	19.2 19.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Open Space Open Space	Remove Remove	0%	0.0
1809	30.0	Hackberry	Celtis occidentalis	No	Healthy		Open Space	Remove	0%	0.0
1810 1811	30.0 7.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk	Open Space Open Space	Remove Remove	0%	0.0
1811	9.6	Hackberry Hackberry	Celtis occidentalis	No	Healthy		Easement	Remove	0%	0.0
1813	38.4	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Easement	Remove	0%	0.0
1814 1815	34.8 32.4	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Street Easement	Remove Remove	0%	0.0
1816	15.6	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Easement	Remove	0%	0.0
1817 1818	36.0 31.2	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot Lot	Remove Remove	0%	0.0
1819	16.8	Mesquite	Prosopis grandulosa	Yes	Healthy		Lot	Remove	100%	16.8
1820 1821	13.2 21.6	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remove Remove	0%	0.0
1822	7.2	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remove	0%	0.0
1823	7.2	Hackberry	Celtis occidentalis Celtis occidentalis	No	Healthy		Lot	Remove	0%	0.0
1824 1825	9.6	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remove Remove	0%	0.0
1826	20.4	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remove	0%	0.0
1827 1828	8.4 10.8	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remain Remain	0%	0.0
1829	9.6	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
1830 1831	15.6 24.0	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot Lot	Remain Remain	0%	0.0
1831	10.8	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
1833	9.6	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
1834 1835	22.8 9.6	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remain Remain	0%	0.0
1836	18.0	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
1837 1838	13.2 8.4	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Lot	Remain Remain	0%	0.0
1839	12.0	Hackberry	Celtis occidentalis	No	Healthy	Multi-Trunk	Lot	Remove	0%	0.0
1840 1841	8.4 20.4	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy		Lot Off-Site	Remove Remove	0%	0.0
1842	36.0	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remove	0%	0.0
1843	10.8	Cedar Elm	Ulmus crassifolia	Yes	Healthy		Lot	Remove	100%	10.8
1844 1845	30.0 34.8	Cedar Elm Cedar Elm	Ulmus crassifolia Ulmus crassifolia	Yes Yes	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot Lot	Remove Remove	100% 100%	30.0 34.8
1846	8.4	Cedar Elm	Ulmus crassifolia	Yes	Healthy		Lot	Remove	100%	8.4
1847 1848	20.4 20.4	Weeping Willow Weeping Willow	Salix babylonica Salix babylonica	No No	Healthy Healthy		Lot Lot	Remove Remove	0%	0.0
1849	30.0	Pecan	Carya illinoinensis	Yes	Healthy	Dead	Lot	Remove	0%	0.0
1850 1851	9.6 36.0	Weeping Willow Weeping Willow	Salix babylonica Salix babylonica	No No	Healthy Healthy	Multi-Trunk	Lot Easement	Remove Remove	0%	0.0
1852	35.0	Weeping Willow	Salix babylonica	No	Healthy	Multi-Trunk	Easement	Remove	0%	0.0
1853 1854	8.4 45.6	Weeping Willow Weeping Willow	Salix babylonica Salix babylonica	No No	Healthy Healthy		Easement Easement	Remove Remove	0%	0.0
1854	25.2	Weeping Willow Weeping Willow	Salix babylonica Salix babylonica	No	Healthy		Lot	Remove	0%	0.0
1856	30.0	Weeping Willow	Salix babylonica	No	Healthy		Lot	Remove	0%	0.0
1857 1858	24.0 7.2	Weeping Willow Weeping Willow	Salix babylonica Salix babylonica	No No	Healthy Healthy	Multi-Trunk	Lot Lot	Remove Remove	0%	0.0
1859	8.4	Weeping Willow	Salix babylonica	No	Healthy		Lot	Remove	0%	0.0
1860 1868	40.8 36.0	Weeping Willow Bois d'arc	Salix babylonica Maculra pomifera	No Yes	Healthy Healthy	Multi-Trunk	Lot Open Space	Remove Remove	0%	0.0 36.0
1868	16.8	Weeping Willow	Salix babylonica	No	Healthy Healthy		Open Space Open Space	Remove	0%	0.0
1861	8.4	Weeping Willow	Salix babylonica	No	Healthy		Lot	Remove	0%	0.0
1862 1863	49.2 33.6	Weeping Willow Weeping Willow	Salix babylonica Salix babylonica	No No	Healthy Healthy	Multi-Trunk	Lot Lot	Remove Remove	0%	0.0
1864	9.6	Weeping Willow	Salix babylonica	No	Healthy		Lot	Remove	0%	0.0
1865 1866	9.6 9.6	Weeping Willow Weeping Willow	Salix babylonica Salix babylonica	No No	Healthy Healthy		Lot Lot	Remove Remove	0%	0.0
1867	7.2	Weeping Willow	Salix babylonica	No	Healthy		Lot	Remove	0%	0.0
1870 1871	10.8	Hackberry	Celtis occidentalis	No	Healthy	M14 T 1	Lot	Remove	0%	0.0
1871 1872	20.4 15.6	Hackberry Hackberry	Celtis occidentalis Celtis occidentalis	No No	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot Lot	Remove Remain	0%	0.0
1873	13.2	Cottonwood	Populus deltoidies	Yes	Healthy		Lot	Remain	0%	0.0
1874 1875	18.0 18.0	Cottonwood Cottonwood	Populus deltoidies Populus deltoidies	Yes Yes	Healthy Healthy	Multi-Trunk	Lot Lot	Remain Remain	0%	0.0
1875	9.6	Cottonwood	Populus deltoidies	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0



Tree ID Number	Diameter at Breast Height (DBH) (inches)	Common Name	Scientific Name	Protected Tree?	Condition	Comment	Location	Remove or Remain	Mitigation Required, Percentage	Mitigation Required in Caliper Inches
1877	7.2	Cottonwood	Populus deltoidies	Yes	Healthy		Lot	Remain	0%	0.0
1878	12.0	Cedar Elm	Ulmus crassifolia	Yes	Healthy		Lot	Remain	0%	0.0
1879	8.4	Cottonwood	Populus deltoidies	Yes	Healthy	14 A 1	Lot	Remain	0%	0.0
1880	13.2	Cottonwood	Populus deltoidies	Yes	Healthy		Lot	Remain	0%	0.0
1881	28.8	Cottonwood	Populus deltoidies	Yes	Healthy	_	Lot	Remain	0%	0.0
1882 1883	12.0 12.0	Cottonwood Cottonwood	Populus deltoidies Populus deltoidies	Yes Yes	Healthy Healthy		Lot Lot	Remain Remain	0% 0%	0.0
1884	12.0	Cottonwood	Populus deltoidies	Yes	Healthy	-	Lot	Remain	0%	0.0
1885	12.0	Cottonwood	Populus deltoidies	Yes	Healthy		Lot	Remain	0%	0.0
1886	9.6	Cottonwood	Populus deltoidies	Yes	Healthy		Lot	Remain	0%	0.0
1887	9.6	Cottonwood	Populus deltoidies	Yes	Healthy		Lot	Remain	0%	0.0
1888	30.0	Cottonwood	Populus deltoidies	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1889	7.2	Cottonwood	Populus deltoidies	Yes	Healthy		Lot	Remain	0%	0.0
1890	24.0	Cottonwood	Populus deltoidies	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1891	8.4	Weeping Willow	Salix babylonica	No	Healthy	1.52	Lot	Remain	0%	0.0
1892	9.6	Weeping Willow	Salix babylonica	No	Healthy	NOVET 1	Lot	Remain	0%	0.0
1893	32.4 54.0	Cedar Elm	Ulmus crassifolia Ulmus crassifolia	Yes Yes	Healthy	Multi-Trunk	Lot	Remain	0% 0%	0.0
1894 1895	16.8	Cedar Elm Cedar Elm	Ulmus crassifolia Ulmus crassifolia	Yes	Healthy Healthy	Multi-Trunk Multi-Trunk	Lot Lot	Remain Remain	0%	0.0
1896	9.6	Cedar Elm	Ulmus crassifolia	Yes	Healthy	Withd- IIthik	Lot	Remain	0%	0.0
1897	49.2	Weeping Willow	Ulmus crassifolia	No	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1898	51.6	Cedar Elm	Ulmus crassifolia	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1899	8.4	Cottonwood	Populus deltoidies	Yes	Healthy		Lot	Remain	0%	0.0
1900	19.2	Cedar Elm	Ulmus crassifolia	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1901	24.0	Cottonwood	Populus deltoidies	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1902	9.6	Bois d'arc	Maculra pomifera	No	Healthy		Lot	Remain	0%	0.0
1903	24.0	Cottonwood	Populus deltoidies	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1904 1905	10.8	Cottonwood	Populus deltoidies	Yes	Healthy	-	Lot	Remain	0% 0%	0.0
1905	14.4	Cottonwood Cottonwood	Populus deltoidies Populus deltoidies	Yes Yes	Healthy Healthy	- /	Lot Lot	Remain Remain	0%	0.0
1907	18.0	Cedar Elm	Ulmus crassifolia	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1908	13.2	Bois d'arc	Maculra pomifera	Yes	Healthy		Lot	Remain	0%	0.0
1909	27.6	Cottonwood	Populus deltoidies	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1910	12.0	Cedar Elm	Ulmus crassifolia	Yes	Healthy		Lot	Remain	0%	0.0
1911	18.0	Cedar Elm	Ulmus crassifolia	Yes	Healthy	1.1	Lot	Remain	0%	0.0
1912	36.0	Bois d'arc	Maculra pomifera	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1914	8.4	Pecan	Carya illinoinensis	Yes	Healthy		Lot	Remain	0%	0.0
1915	15.6	Pecan	Carya illinoinensis	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1916	8.4	Pecan	Carya illinoinensis	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1917 1913	9.6 12.0	Cottonwood Eastern Red Cedar	Populus deltoidies Juniperus virginiana	Yes Yes	Healthy Healthy	Multi-Trunk	Lot Lot	Remain Remain	0%	0.0
1913	14.4	Cedar Elm	Ulmus crassifolia	Yes	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1919	8.4	Post Oak	Quercus stellata	No	Healthy	Trian Trian	Lot	Remain	0%	0.0
1920	9.6	Post Oak	Quercus stellata	No	Healthy		Lot	Remain	0%	0.0
1921	25.2	Post Oak	Quercus stellata	No	Healthy	Multi-Trunk	Lot	Remain	0%	0.0
1922	9.6	Post Oak	Quercus stellata	No	Healthy		Lot	Remain	0%	0.0
1923	9.6	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
1924	10.8	Cedar Elm	Ulmus crassifolia	Yes	Healthy		Lot	Remain	0%	0.0
1925	7.2	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
1926	9.6	Hackberry	Celtis occidentalis	No	Healthy		Lot	Remain	0%	0.0
1927 1928	8.4 7.2	Cedar Elm Cedar Elm	Ulmus crassifolia Ulmus crassifolia	Yes Yes	Healthy Healthy	-	Open Space	Remain	0% 0%	0.0
4,492.3	1.2	Cedar Elm	Ulmus crassifolia	res	Healthy	-	Open Space	Remain	0%	163.2
Total Tree Population										Total Tree Replacement, caliper inches



TREE PROTECTION NOTES

1. EXISTING TREES SHOWN TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION. ORANGE COATED CHAINLINK FENCING (MIN. 4'-0" HEIGHT) SHALL BE INSTALLED AT THE DRIP LINE OF ALL TREES OR TREE GROUPS TO REMAIN. PARKING OF VEHICLES OR PERFORMING WORK WITHIN THESE AREAS OTHER THAN SHOWN ON THE PLAN, WILL NOT BE ALLOWED. THE TREE PROTECTION SHALL REMAIN DURING CONSTRUCTION. OTHER TREE PROTECTION MEASURES SHALL BE IN ACCORDANCE WITH THE CITY'S STANDARDS AND ORDINANCES.

2. DISPOSAL OF ANY WASTE MATERIAL SUCH AS, BUT NOT LIMITED TO, PAINT, ASPHALT, OIL SOLVENTS, CONCRETE, MORTAR, ETC. WITHIN THE CANOPY AREA OF THE EXISTING TREES SHALL NOT BE

3. NO ATTACHMENTS OR WIRES OF ANY KIND, OTHER THAN THOSE OF A PROTECTIVE NATURE, SHALL BE ATTACHED TO ANY TREE.

4. NO FILL OR EXCAVATION OF ANY NATURE SHALL OCCUR WITHIN THE DRIP LINE OF A TREE TO BE PRESERVED, UNLESS THERE IS A SPECIFIED WELL OR RETAINING WALL SHOWN ON THE GRADING

5. NO MATERIALS SHALL BE STORED WITHIN THE DRIPLINE AREA OF A

