

WALKER COUNTY COMMISSIONERS COURT

1100 University Avenue Huntsville, Texas 77340 936-436-4910



COLT CHRISTIAN

County Judge

DANNY KUYKENDALL Commissioner, Precinct 1

RONNIE WHITE Commissioner, Precinct 2

AGENDA REGULAR SESSION MONDAY, JUNE 5, 2023 9:00 A.M. ROOM 104

BILL DAUGETTE Commissioner, Precinct 3

BRANDON DECKER Commissioner, Precinct 4

CALL TO ORDER

- Announcement by the County Judge whether a quorum is present.
- Certification that public Notice of Meeting was given in accordance with the provisions of Section 551.001 et. Seq. of the Texas Government Code.

GENERAL ITEMS

- Prayer Pastor James Necker
- Pledge of Allegiance
- Texas Pledge "Honor the Texas Flag, I pledge allegiance to thee, Texas, one state under God, one and indivisible"
- Citizens Input Agenda Items

CONSENT AGENDA

- 1. Approve minutes from Commissioners Court Regular Session on May 22, 2023.
- 2. Approve Disbursement Report for the period 5/19/23 5/31/23.
- 3. Approve Order 2023-69, Treasurer Report for March 2023.
- 4. Approve Order 2023-70, Treasurer Report for April 2023.
- 5. Receive Walker County Emergency Services District #2 annual audit for FY2022.
- 6. Receive Purchasing Board Order for the appointment of Interim Purchasing Agent.
- 7. Approve Order 2023-83, setting the salary of the Interim Purchasing Agent.
- 8. Approve payment of claims and invoices submitted for payment.
- **9.** Approve Special Prosecution Unit meals for Employee Training for three days, June 21-23, 2023, not to exceed \$1800.
- 10. Approve Special Prosecution Unit meals for June Boarding meeting, not to exceed \$350.
- 11. Approve Facility Request 2023-77, Republican Party of Walker County and the Walker County Republican Women request to use of the Courthouse Gazebo, October 27, 2023 to recognize First Responders of Walker County.
- 12. Receive Financial Information as of May 30, 2023, for the fiscal year ending September 30, 2023.
- 13. Receive Financial Information as of the month ended April 30, 2023, for the fiscal year ending September 30, 2023.
- 14. Receive Treasurer Investment Report for April 2023.
- 15. Receive County Clerk Financial Report for April 2023.
- 16. Receive Employee Injury Report.

STATUTORY AGENDA

Emergency Medical Services

- 17. Discuss and take action on updated EMS event standby policy, pricing and procedures. Rachel Parker Information Technology
 - **18.** Discuss and take action to approve amendment to SHI contract for the Enterprise Multi-Tenant Enrollment and authorize Interim Purchasing Agent to sign Program Volume Licensing orders as needed for the Government Cloud Project within budgeted funds. Dan Early
 - 19. Discuss and take action to approve Microsoft Customer Agreement US Government Community Cloud. Dan Early

Tax Assessor Collector

- **20.** Discuss and take action to approve the Joint Election Agreement including countywide poll locations (Attachment A) for the November 7, 2023, General Election. Diana McRae
- 21. Discuss and take action to approve the purchase of the document management software (Elections Bundle) from Vista Solutions Group with budgeted funds and/or Chapter 19 Funds (State Funds). Diana McRae

Walker County Commissioners Court - Regular Session - June 5, 2023 - Agenda (cont'd)

Purchasing

- 22. Discuss and take action on the disposal of FAS #13400. Laura Buccafurni
- 23. Discuss and take action on the disposal of FAS #12666. Laura Buccafurni
- 24. Discuss and take action to transfer FAS# 15678 from EMS to OEM. Laura Buccafurni

Treasurer

- 25. Presentation by Texas Association of Counties Health Employee Benefits Pool Coordinator to review medical and wellness plans for Walker County and discuss potential changes for the upcoming benefit plan year. Ashley Cureton-Whitfield/Amy Klawinsky
- **26.** Discuss and take action on renewal of Texas Association of Counties Health and Employee Benefit Program plan for FY2024. Amy Klawinsky
- **27.** Discuss and take action on Texas and County District Retirement System FY2024 plan. Amy Klawinsky Auditor
- **28.** Discuss and approve Order 2023-80 amending the Salary Group Ranges classification system and approve personnel allocation change for the District Clerk. Patricia Allen
- **29.** Discuss and approve Order 2023-81 amending the budget for the fiscal year ending September 30, 2023. Patricia Allen
- **30.** Discuss and approve agreement for software subscription with Fifth Asset, Inc. dba DebtBook to be used for GASB statement implementation Initial term period June 1, 2023 to May 30, 2024 to be paid from budgeted funds. Patricia Allen
- **31.** Discuss and take action on amending Walker County Personnel Policy Section 2.19 on Asset Management. Patricia Allen

Maintenance

32. Discuss and take action on proceeding with repairs to the Walker County Justice Center for damage caused by a water leak. – Larry Whitener

Commissioners Court

- **33.** Discuss and take action on a purchase of an 84-inch roller at an approved public auction. Commissioner White
- **34.** Discuss and take action on a purchase of a rear load equipment hauling trailer from an approved public auction. Commissioner White
- **35.** Discuss and take action on acceptance of a temporary working easement from John Blanchard for drainage repairs. Commissioner Daugette
- **36.** Discuss and take action to purchase Kubota SVL 97 2HFC from Buyboard contract # 597-19, funding source to be determined. Commissioner Decker
- 37. Discussion on relocating Hawthorne Road. Commissioner Decker
- **38.** Discuss and take action on US Forest Service Agreement Modification (Grant 22-RO-11081300-111). Commissioner Decker
- **39.** Discuss and take action on US Forest Service Co-op Road Projects, funded as part of the SRS Title II program and approval of Project Submission Form. Commissioner Decker

Planning and Development

- **40.** Discuss and take action on West Waverly Ranch, LLC request for variance to Section 4.37 of the Walker County Subdivision Regulations regarding Engineering Flood Study of the Zone A to determine/establish a base flood elevation (BFE) for [Plat # 2022-035] Homestead Hill Subdv. , John Sadler League, A-45 FM 1375 W Pct. 4 Andy Isbell
- **41.** Discuss and take action on West Waverly Ranch, LLC request for variance to Section 5.03.c of the Walker County Regulations for Floodplain Management regarding base flood elevation data for subdivision proposals greater than 50 lots or 5 acres for [Plat # 2022-035] Homestead Hill Subdv., John Sadler League, A-45 FM 1375 W Pct. 4 Andy Isbell
- **42.** Discuss and take action on Atlas Land Partners, LLC request for variance to Section 4.37 of the Walker County Subdivision Regulations regarding Engineering Flood Study of the Zone A to determine/establish a base flood elevation (BFE) for [Plat # 2022-041] Governors Ranch Subdv., Charles Hill Survey, A-268 IH45N- Pct. 1 Andy Isbell
- **43.** Discuss and take action on Atlas Land Partners, LLC, LLC request for variance to Section 5.03.c of the Walker County Regulations for Floodplain Management regarding base flood elevation data for subdivision proposals greater than 50 lots or 5 acres for [Plat # 2022-041] Governors Ranch Subdv., Charles Hill Survey, A-268 IH45N Pct. 1 Andy Isbell
- **44.** Discuss and take action on Frontier Internet Utility Installation Request along Four Notch Road Pct. 4 Andy Isbell
- **45.** Discuss Spearpoint Engineering, LLC proposal for Mitchell Cemetery Road relocation project Pct. 4 Andy Isbell
- **46.** Discuss and take action on allocation of \$ 65,000.00 in additional funds for Engineering Services contracts. Andy Isbell
- **47.** Discuss and take action on Waverly Manors at High Meadow Development, LLC request for variance to Section B2.2 of the Walker County Subdivision Regulations regarding 3:1 lot depth to width ratio for [Plat # 2023-010] The Manors Subdivision, Jose Maria De La Garza Survey, A-22 SH 150 Pct. 4 Andy Isbell

Walker County Commissioners Court - Regular Session - June 5, 2023 - Agenda (cont'd)

- **48.** Discuss and take action on Waverly Manors at High Meadow Development, LLC request for variance to Section B2.9 of the Walker County Subdivision Regulations regarding utility easement location for [Plat # 2023-010] The Manors Subdivision, Jose Maria De La Garza Survey, A-22 SH 150 Pct. 4 Andy Isbell
- **49.** Discuss and take action on Waverly Manors at High Meadow Development, LLC request for variance to Section B3.4.1 of the Walker County Subdivision Regulations regarding points of access for [Plat # 2023-010] The Manors Subdivision, Jose Maria De La Garza Survey, A-22 SH 150 Pct. 4 Andy Isbell
- 50. Discuss and take action on determination of administrative completion of Permit # 1999-5928. Andy Isbell

BUDGET WORKSHOP

Tri-County Behavioral Health Budget Presentation Supplemental Requests

EXECUTIVE SESSION

If during the course of the meeting covered by this notice, Commissioners Court shall determine that a closed meeting of the Court is required, then such closed meeting as authorized by Texas Government Code 551, subchapter D, will be held by the Commissioners Court at the date, hour, and place in this notice or as soon after the commencement of the meeting covered by this notice as the Commissioners Court may conveniently meet in such closed meeting concerning any and all subjects and for any and all purposes permitted by Chapter 551, subchapter D, inclusive of said Texas Government Code, including but not limited to:

- **Section 551.071** For the purpose of private consultation between the Commissioners Court and its attorney when the attorney's advice with respect to pending or contemplated litigation settlement offers, and matters where the duty of the Commissioners Court counsel to his client pursuant to the Code of Professional Responsibility of the State Bar of Texas clearly conflicts with the Open Meetings Act.
- **Section 551.072** For the purpose of discussion with respect to the purchase, exchange, lease, or value of real property, if deliberation in an open meeting would have a detrimental effect on the position of the Commissioners Court in negotiations with a third person
- **Section 551.073** For the purpose of deliberation regarding prospective gifts or to deliberate a negotiated contract for prospective gift or donation to the Commissioners Court or Walker County, if deliberation in an open meeting would have a detrimental effect on the position of the Commissioners Court in negotiations with a third person.
- **Section 551.074** For the purpose of considering the appointment, employment, evaluation, reassignment, duties, discipline, or dismissal of a public officer or employee or to hear complaints or charges against a public officer or employee, unless such officer or employee requests a public hearing.
- **Section 551.076** To discuss the deployment, or specific occasions for implementation of security personnel or devices.
- **Section 551.086** Deliberation regarding economic development negotiations.

INFORMATION ITEMS

- Public Comment Non-agenda items
- Questions from the media
- Commissioners Court

ADJOURN

On this 1^{ST} day of June, 2023, the Executive Administrator to the County Judge filed this notice, and was posted at the main entrance of the Walker County Courthouse.

Colt Christian, County Judge

I, the undersigned County Clerk, do hereby state that the above Notice of Meeting of the above named Commissioners' Court, is a true and correct copy of said Notice, and I posted a true and correct copy of said Notice on the Courthouse Public Notices area of Huntsville, Walker County, Texas, at a place readily accessible to the general public at all times on the 1st day of June, 2023, and said Notice remained so posted continuously for at least 72 hours proceeding the scheduled time of said meeting.

Dated this 1st day of June, 2023.

Kari A. French, County Clerk

FILED FOR POSTING

JUN 01 2023

CALKER COUNTY TEXAS

By TANKER COUNTY TEXAS

RIGHT OF WAY EASEMENT

Described as Redskin Ridge, Section 1, Lot 39.

DATE:

04/10/2023

GRANTOR:

John Blanchard

MAILING ADDRESS:

Property ID 34675 Huntsville, TX 77320

11233 FORESTVIEW DR KLINT, TX 75762

GRANTEE:

Walker County, Texas

1100 University Avenue

Huntsville, TX 77340

Known all men by these presents, the undersigned, owning all or a controlling interest in the land described above do hereby dedicate to the Public and the County of Walker a temporary easement for general right of way maintenance purposes including the construction and or maintenance of drainage improvements. The easement hereby dedicated includes an area on the above property that extends 50 feet north/west of the north/west road right of way and is within 50 feet to the north/west of an 84" culvert that crosses under Kickapoo and onto the Blanchard property.

All parties understand that the grantor of this easement retains all rights of ingress and egress over said easement to enter adjacent lands owned or controlled by grantor.

It is further understood that the granting of the easement to Walker County for right of way purposes does not affect mineral rights presently in effect and that mineral rights will remain with the present owner.

Page 2 of 3 of Right of Way Easement

It is further understood by grantor and grantee that this easement agreement shall expire 100 days after being signed by the grantors.

The grantor covenants that he or she is the owner of the above described lands and that said lands are under his or her control at all times.

Remainder of page intentionally left blank.

Proposed Easement on Kickapoo



Ambley Landowner Signature

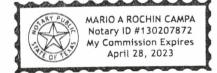
JOHN BRANCHARD

Printed Name

THE STATE OF TEXAS SCOUNTY OF WALKER

Before me Marie A. Rodin Compa a notary public on this day personally appeared
Tohn Blanchard , known to me (or proved to me) to be the person whose name is subscribed to the forgoing instrument and acknowledged to me that he executed the same for purposes and consideration there in expressed.

Given under my hand and seal of officer this 10th Day of 4p-..., 2023



Notary of Public



SVL97-2HFC WEB QUOTE #2647437 Date: 4/18/2023 1:03:25 PM Customer Information -DECKER, BRANDON WALKER COUNTY PRECINCT 4 bdecker@co.walker.tx.us 9364358055

Quote Provided By WC TRACTOR - NAVASOTA **CLINT WALTERS** 10044 HWY. 6 SOUTH NAVASOTA, TX 77868 email: clintw@wctractor.com phone: 9792039271

-- Custom Options --

-- Standard Features --



SVL97-2HFC S Series

* * * EQUIPMENT IN STANDARD MACHINE * * *

FFATURES

Final Tier 4 Certified Kubota Diesel Engine Electronic Travel Torque Management System Vertical Lift Path Loader Frame OPERATIONAL Standard Front Quick Coupler, Float Standard Hydraulic Quick Coupler Option Loader Arm Self-Leveling

Loader Boom Lock Open ROPS/FOPS Optional enclosed and pressurized cab with A/C High Back, Adjustable, Vinyl, Suspension Seat 2" Retractable Seat Belt And 2-

Piece Seat Bar 23.1 gpm Auxiliary Hydraulics Standard, 40.0 gpm Option

Case Drain Line Rigid Mounted Undercarriage, 5 Auxiliary Hydraulics Flow 24 / 40.0 Lower Track Rollers

High Grip Rubber Tracks, 17.7" Standard

Two Speed Travel System Automatic Wet Disk Parking Brake

Kubota 4 Hydraulic Pump Load Sensing System

2 Variable Displacement Pumps

Rearview Camera **KubotaNOW Telematics** Lockable DEF Cap Guard Hydraulic Joystick Controls ISO Operating Pattern

Dial Knob and Foot Throttle Controls Stall Guard Engine Controls Automatic Glow Plugs Key Switch Stop System Self Bleed Fuel System 2 Front and 2 Rear Working Lights

Hour Meter, Engine Temperatur, DEF, and Fuel Gauges and Warning Lights Lockable DEF Tank Cap Lockable Fuel Cap Radio Ready on Enclosed

Cabs

BASIC UNITS

SVL97-2S, 17.7" Rubber Tracks, Open ROPS/FOPS Cab **Quick Coupler**

DIMENSIONS

Operating Weight*, SVL97-2s, 17.7" Rubber Tracks, Open ROPS/FOPS Cab, Mechanical Quick Coupler 11,299 Rated Operating Capacity (ROC) @ 35% of Tipping Load complies with ISO 14397-1

and SAF J 818) 3 200 lbs Rated Operating Capacity (ROC) @ 50%

of Tipping Load 4,572 lbs. Tipping Load 9,143 lbs.

Travel Speed (Low / High) 5.0 / 7.3 Reach @ Maximum Height 40.7"

Height to Hinge Pin 128.6" Ground Pressure 4.5 psi. Traction Force 12,178 lbf.

* Includes operator's weight, 175

ENGINE

V3800-Tier 4 Kubota Final Tier 4 Diesel Engine 4 Cylinder, 4 Cycle, Turbo Charged 96.0 Gross HP @ 2400 rpm

DIMENSIONS

Cab Height 83.4"

Width (without attachment) 77.2" Length (without attachment) 123.5" Length of Track on Ground 65.6'

SVL97-2HFC Base Price: \$91,154.00 (1) SVL REAR VIEW CAMERA KIT S6780-SVL REAR VIEW CAMERA KIT (1) SVL TELEMATICS HARNESS inc. S6702-SVL TELEMATICS HARNESS (1) KubotaNOW TELEMATICS MODEM inc. DCU6700-KubotaNOW TELEMATICS MODEM (1) SPECIAL APPLICATION DOOR KIT FOR CAB \$3,380.00 S6658-SPECIAL APPLICATION DOOR KIT FOR CAB (1) REAR VIEW MIRROR KIT \$24.00 S6641-REAR VIEW MIRROR KIT (1) 80" LPLF BKT W/BOCE/BOSC/SVL90 \$2,675.00 S6606-80" LPLF BKT W/BOCE/BOSC/SVL90 (1) STROBE LIGHT KIT \$239.00 S6676-STROBE LIGHT KIT (1) SVL LED LIGHT KIT \$382.00 \$6764-SVL LED LIGHT KIT (1) AIR RIDE SEAT SUSPENSION KIT \$683.00 S6679-AIR RIDE SEAT SUSPENSION KIT Configured Price: \$98,537.00 **BUY BOARD Discount:** (\$23,648.88)SUBTOTAL: \$74,888.12 1Yr SVL97-2HFC Extended Warranty (3000 hrs.) \$1,600.00 Dealer Assembly: \$575.67 Freight Cost: \$887.50 PDI: \$400.00 REAR DOOR THEFT DETERRENT \$1,500.00

> Total Unit Price: \$79,851.29 Quantity Ordered: Final Sales Price: \$79,851.29

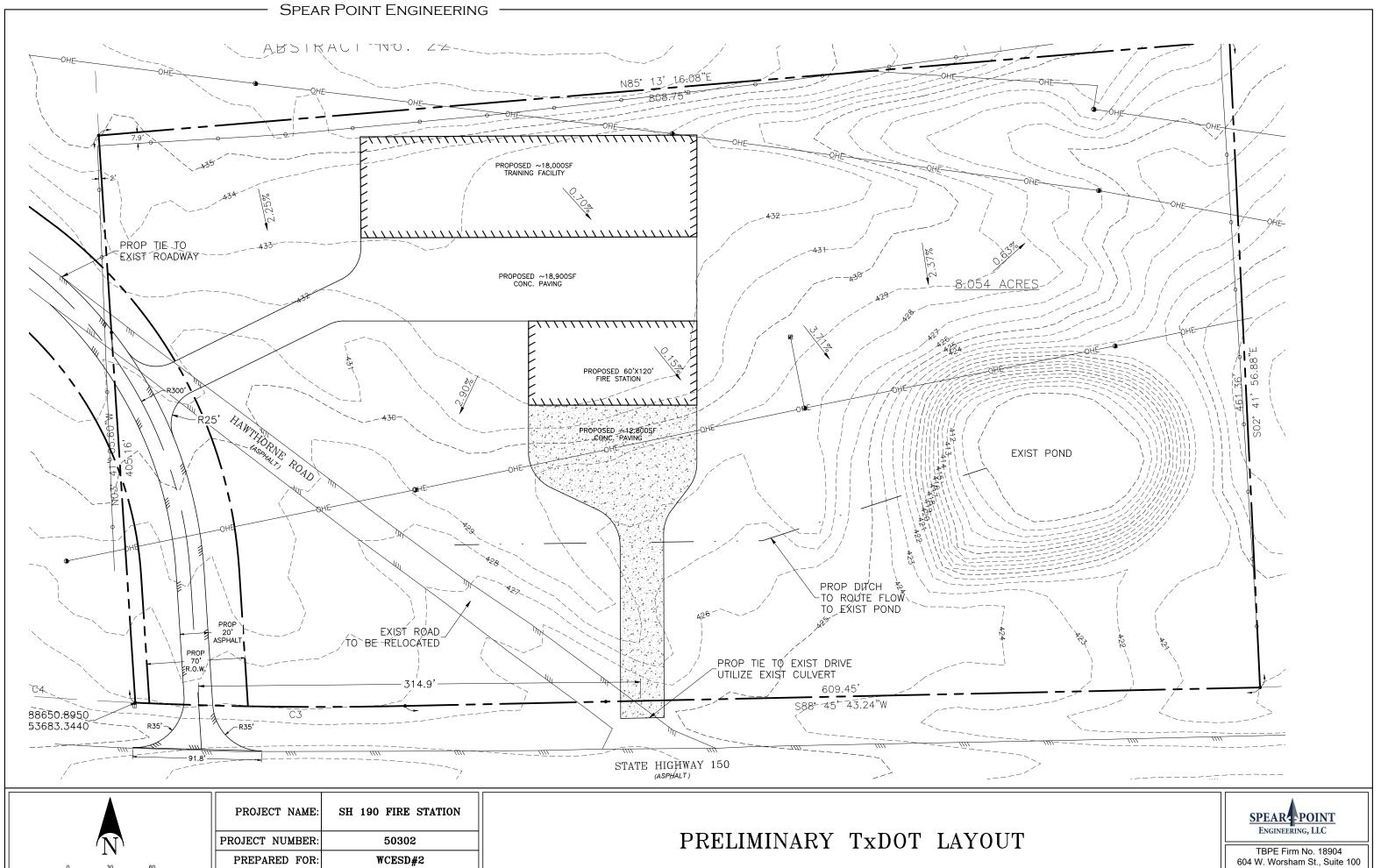
Purchase Order Must Reflect the Final Sales Price

To order equipment – purchase orders must be made out and

Attn: National Accounts 1000 Kubota Drive Grapevine, TX 76051 or email NA.Support@kubota.com or call 817-756-1171 or fax 844-582-1581

Kubota Tractor Corporation

*All equipment specifications are as complete as possible as of the date on the quote. Additional attachments, options, or accessories may be added (or deleted) at the discounted price. All specifications and prices are subject to change. Taxes are not included. The PDI fees and freight for attachments and accessories quoted may have additional charges added by the delivering dealer. These charges will be billed separately. Prices for product quoted are good for 60 days from the date shown on the quote. All equipment as quoted is subject to availability



DATE

MAY 15, 2023

Willis, TX 77378 936-256-2626



	MODIFICATION OF GRANT OR AGREEMENT PAGE OF PAGES					
	MODIFICATION	r GRANI	OR AGREEMENT		1	
	VICE GRANT/AGREEMENT NUMBER:		OOPERATOR GRANT or	3, MODIFICA	TION NUMB	BER:
22-RO-110813	300-111	AGREEMENT N	IUMBER, IF ANY:	001		
4 NAME/ADDRESS	OF U.S. FOREST SERVICE UNIT ADMIN	ISTERING	5. NAME/ADDRESS OF U.S. FOREST	SEDVICE UNI	r a dminist	TERING
	NT (unit name, street, city, state, and zip + 4)		PROJECT/ACTIVITY (unit name, stree			LKUVO
	Forests in Texas					
2221 N. Rague	et St.					
Lufkin, TX 75	904					
	OF RECIPIENT/COOPERATOR (street, cit	y, state, and zip +	7, RECIPIENT/COOPERATOR'S HHS	SUB ACCOUN	T NUMBER	(For HHS
4, county):	NINTY OF		payment use only):			
WALKER, CO						
I	y Ave Ste 201,					
Huntsville, TX						
			MODIFICATION			
CHECK ALL	This modification is issued p	ursuant to the	e modification provision in the	he grant/agi	reement	
THAT APPLY:	referenced in item no. 1, abo	ve.				
	CHANGE IN PERFORMANCE P	ERIOD:				
	CHANGE IN FUNDING: \$76,231	.00				
	ADMINISTRATIVE CHANGES:					
	OTHER (Specify type of modifica	tion):				
Except as provid	ed herein, all terms and condition	s of the Grant/	Agreement referenced in 1, abov	e, remain un	changed a	nd in full
force and effect.						
9. ADDITIONAL	L SPACE FOR DESCRIPTION OF	MODIFICATION	ON (add additional pages as needed	d):		
	10. ATTACHED D	OCUMENT	TATION (Check all that ap	ply):		
	Revised Scope of Work					
\boxtimes	Revised Financial Plan					
	Other:					
			ATURES			
	RESENTATIVE: BY SIGNATURE BELOV					
THEIR RESPECTIVE GRANT/AGREEMEN	PARTIES AND AUTHORIZED TO ACT I	N THEIR RESPEC	TIVE AREAS FOR MATTERS RELATE	D TO THE ABO	VE-REFERE	INCED
11 A. SIGNATURE	_	11.B. DATE	11.C. U.S. FOREST SERVICE SIGNAT	TIRE	T 1	1.D. DATE
THE BIGINTIONE		SIGNED	THE GIBT GREET BERVIEL BIOWIT	OKE		IGNED
(Signature of Signator	Official)		(Signature of Signatory Official)			
11.E. NAME (type or			11.F. NAME (type or print):			
Colt Christian			Kimpton Cooper			
11.G. TITLE (type or	print):		11 H. TITLE (type or print):			1
County Judge			Forest Supervisor			
		12. G&A	REVIEW			
12.A. The autho	rity and format of this modification	on have been re	eviewed and approved for signat	ure by:		DATE
	STE		gitally signed by		SIGN	IED
		311	EVEN HARRIS			
Steven H	117	RRIN	te: 2023.05.30 :07:04 -05'00'			
U.S. Forest Ser	vice Grants & Agreements Specialist	.00.				



Burden Statement

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0217. The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call toll free (866) 632-9992 (voice). TDD users can contact USDA through local relay or the Federal relay at (800) 877-8339 (TDD) or (866) 377-8642 (relay voice). USDA is an equal opportunity provider and employer.



INSTRUCTIONS FOR FORM FS-1500-19

- 1. Enter the orginal U.S. Forest Service agreement number.
- 2. Enter the cooperator's agreement number, if applicable.
- 3. Enter the number for this Modification, i.e. 01, 02, or 03. The first modification to an instrument is '01', subsequent modifications receive a subsequent modification number (for example, the fourth modification is '04').
- 4. Enter the address of the G&A Specialist/Signatory Official responsible for this agreement.
- 5. Enter the address of the U.S. Forest Service Program/Project Manager or Lead Scientist responsible for this agreement.
- 6. Enter the cooperator's address.
- 7. Enter the cooperator's HHS Sub-Account numbers, if funding is provided on this modification (for example: G2412345003) (Only used by NA/S&PF and NRS)
- 8. Select all boxes that apply:
 - Change in Performance = updated performance period agreed to.
 - Change in Funding = obligation OR de-obligation amount and new totals.
 - Administrative = change in pay address, administrator address, correcting typing errors, etc.
 - Other = any other modification not described, such as update new objective to study plan, change the Principle Investigator, etc.
- 9. Insert changes such as updated provision, tasks, or any other data needed by the modification, add additional pages as needed.
- 10. Check all boxes that apply and ensure to attach these documents to the modification. Other attachments could include SF-424 forms.
- 11. A D, self explanatory.
- 11. E H, Type or print the names of signatory officials.
- 12. G&A Specialist signs and dates before sending to the individuals in block 11, if all modification data are approved for signature.

i e	
Attachment:	

USFS Agreement No.: 22-RO-11081300-111
Cooperator Agreement No.: 22-RO-11081300-110

Note: This Financial Plan may be used when:

- (1) No program income is expected and
- (2) The Cooperator is not giving cash to the FS and
- (3) There is no other Federal funding

Agreements Financial Plan (Short Form)

Financial Plan Matrix: Note: All columns may not be used. Use depends on source and type of contribution(s).

	FOREST SERVICE	CONTRIBUTIONS	COOPERATOR CONTRIBUTIONS		
	(a)	(b)	(c)	(d)	
		Cash			
COST ELEMENTS	Noncash	to	Noncash	In-Kind	(e)
Direct Costs		Cooperator			Total
Salaries/Labor	\$1,000.00	\$0.00	\$9,600.00	\$0.00	\$10,600.00
Travel	\$140.00	\$0.00	\$0.00	\$0.00	\$140.00
Equipment	\$0.00	\$0.00	\$25,000.00	\$0.00	\$25,000.00
Supplies/Materials	\$0.00	\$76,231.00	\$0.00	\$0.00	\$76,231.00
Printing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other					\$0.00
Subtotal	\$1,140.00	\$76,231.00	\$34,600.00	\$0.00	\$111,971.00
Coop Indirect Costs		\$0.00	\$0.00		\$0.00
FS Overhead Costs	\$0.00				\$0.00
Total	\$1,140.00	\$76,231.00	\$34,600.00	\$0.00	
	Tot	al Project Value:			\$111,971.00

Matching Costs Determination					
Total Forest Service Share =	(f)				
$(a+b) \div (e) = (f)$	69.10%				
Total Cooperator Share	(g)				
$(c+d) \div (e) = (g)$	30.90%				
Total (f+g) = (h)	(h)				
	100.00%				

FS Non-Cash Contribution Cost Analysis, Column (a)

Use this worksheet to perform the cost analysis that supports the lump sum figures provided in the matrix. NOTE: This worksheet auto populates the relevant and applicable matrix cells.

Cost element sections may be deleted or lines may be hidden, if not applicable. Line items may be added or deleted as needed. The Standard Calculation sections provide a standardized formula for determing a line item's cost, e.g. $cost/day \times \#$ of days=total, where the total is calculated automatically. The Non-Standard Calculation sections provide a write-in area for line items that require a calculation formula that is other than the standardized formules, e.g. instead of salaries being calculated by $cost/day \times \#$ of days, $costs \times \#$ per calculated simply by a contracted value that is not dependent on days worked, such as 1 employee $cost/day \times \#$ of calculation, and provide a brief explanation of units used to make calculation, e.g. '1 month contract,' on a line below the figures.

Calarias/Laba	-	1			
Salaries/Labo	r				
Standard Calculation	1	T.a		<u> </u>	
Job Description		Cost/Day	# of Days	Total	
Eng Tech		\$250	.00 4.00		\$1,000.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Non-Standard Calculation					·
				-	
Total Salaries/Labor					\$1,000.00
Travel		1			
Standard Calculation	I E	O 1/T	И . С.Т.:	T.4.1	
Travel Expense	Employees	Cost/Trip	# of Trips	Total	
Observations	1	\$35	.00 4.00		\$140.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Non-Standard Calculation					
Total Tuesda	_				6440.00
Total Travel					\$140.00
Equipment		1			
Standard Calculation					
Piece of Equipment	# of Units	Cost/Day	# of Days	Total	
. 1000 of Equipmont	,, or ornio	Coorday	" or bayo	ı ı otai	\$0.00
					\$0.00
					\$0.00
					\$0.00
Non-Standard Calculation					φυ.υυ
Non-Standard Calculation					

Total Equipment						\$0.00
Total Equipment	_					\$0.00
Supplies/Mater	ials					
Standard Calculation						
Supplies/Materials		# of Items	Cost/Item		Total	
						\$0.00
						\$0.00
						\$0.00
						\$0.00
Non-Standard Calculation						
Total Supplies/Materials						\$0.00
Printing		1				
Standard Calculation						
Paper Material		# of Units	Cost/Unit	T	Total	
		•	•	•	l .	\$0.00
Non-Standard Calculation						
Total Deintin						<u> </u>
Total Printing						\$0.00
Other Expens	es					
Standard Calculation					_	
Item		# of Units	Cost/Unit		Total	
						\$0.00
						\$0.00
						\$0.00
Non-Standard Calculation						\$0.00
Non-Standard Calculation						
-						
Total Other						\$0.00
Cubtotal F	Nimo of Ca	4 -		C4 440	00	
Subtotal D	Jirect G	DSTS		\$1,140	.00	
Forest Service Overho	ead Costs	1				
Current Overhead Rate	Subtotal Dire				Total	
Tatal FO Occasional Occasion		\$1,140.0	0			\$0.00
Total FS Overhead Costs						\$0.00
TOTAL CO	OST		¢1	140.00		
IOIALO	50 i		ΨΙ,	170.00		

FS Cash to the Cooperator Cost Analysis, Column (b)

Use this worksheet to perform the cost analysis that supports the lump sum figures provided in the matrix. NOTE: This worksheet auto populates the relevant and applicable matrix cells.

Cost element sections may be deleted or lines may be hidden, if not applicable. Line items may be added or deleted as needed. The Standard Calculation sections provide a standardized formula for determing a line item's cost, e.g. cost/day x # of days=total, where the total is calculated automatically. The Non-Standard Calculation sections provide a write-in area for line items that require a calculation formula that is other than the standardized formules, e.g. instead of salaries being calculated by cost/day x # of days, costs may be calculated simply by a contracted value that is not dependent on days worked, such as 1 employee x \$1,200/contract= \$1,200. Be sure to review your calculations when entering in a Non-Standard Calculation, and provide a brief explanation of units used to make calculation, e.g. '1 month contract,' on a line below the figures.

Salaries/La	abor	1			
Standard Calculation					
Job Description		Cost/Day	# of Days	7	otal
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Non-Standard Calculat	ion				
Total Salaries/Labor					\$0.00
Travel		Ī			
Standard Calculation					
Travel Expense	Employees	Cost/Trip	# of Trips	7	otal
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Non-Standard Calculat	ion				
Total Travel					\$0.00
Equipme	ent				
Standard Calculation					
Piece of Equipment	# of Units	Cost/Day	# of Days	7	otal
					\$0.00
					\$0.00

\$0.00 \$0.00 \$0.00

Non-Standard Calculation						
IT () = -	r					40.00
Total Equipment						\$0.00
Supplies/Materia	als					
Standard Calculation	1		To		I=	
Supplies/Materials		# of Items	Cost/Item	0	Total	- 004 00
Asphalt Mix		1.0	. ,			5,231.00
Aggregate		1.0	00 \$21,000.0	U	Φ Ζ	00.00,1 0.00
		•				\$0.00
Non-Standard Calculation						Ψ0.00
Total Supplies/Materials					\$76	5,231.00
	-					
Printing						
Standard Calculation						
Paper Material		# of Units	Cost/Unit		Total	
F						\$0.00
Non-Standard Calculation						#0.00
Total Drinting	I				1	\$0.00
Total Printing	J					\$0.00
Other Expense	s	•				
Standard Calculation						
Item		# of Units	Cost/Unit		Total	
						\$0.00
						\$0.00
						\$0.00
						\$0.00
Non-Standard Calculation						
Total Other						\$0.00
Subtotal D	irect C	osts		\$76,231	.00	
Cooperator Indirect	Costs					
					T=	
Current Overhead Rate	Subtotal Dire				Total	<u></u>
Total Coop. Indirect Costs		231.00				\$0.00 \$0.00
Total Coop. muirect Costs)	l				φυ.υυ
TOTAL CO	TO		\$76	231.00		
IOIALCO			Ψ10	,231.00		

Cooperator Non-Cash Contribution Cost Analysis, Column (c)

Use this worksheet to perform the cost analysis that supports the lump sum figures provided in the matrix. NOTE: This worksheet auto populates the relevant and applicable matrix cells.

Cost element sections may be deleted or lines may be hidden, if not applicable. Line items may be added or deleted as needed. The Standard Calculation sections provide a standardized formula for determing a line item's cost, e.g. cost/day x # of days=total, where the total is calculated automatically. The Non-Standard Calculation sections provide a write-in area for line items that require a calculation formula that is other than the standardized formules, e.g. instead of salaries being calculated by cost/day x # of days, costs may be calculated simply by a contracted value that is not dependent on days worked, such as 1 employee x \$1,200/contract=\$1,200. Be sure to review your calculations when entering in a Non-Standard Calculation, and provide a brief explanation of units used to make calculation, e.g. '1 month contract,' on a line below the figures.

Salaries/Labo	r				
Standard Calculation	•				
Job Description		Cost/Day	# of Days	Total	
Pavers,	I	\$2,400			\$9,600.00
•		,			\$0.00
					\$0.00
					\$0.00
					\$0.00
Non-Standard Calculation					·
T				<u> </u>	40.000.00
Total Salaries/Labor					\$9,600.00
Travel		7			
Standard Calculation					
Travel Expense	Employees	Cost/Trip	# of Trips	Total	
·					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Non-Standard Calculation					
				<u> </u>	40.00
Total Travel	Ţ				\$0.00
Fauinment		-			

Equipme	nt			
Standard Calculation				
Piece of Equipment	# of Units	Cost/Day	# of Days	Total
Paver		\$4,200.00	4.00	\$16,800.00
Grader		\$1,200.00	4.00	\$4,800.00
Dump truck		\$850.00	4.00	\$3,400.00
				\$0.00
				\$0.00
Non-Standard Calculat	ion			

Total Equipment				\$25,000.00
Total Equipment				\$25,000.00
Supplies/Materials				
Standard Calculation				
Supplies/Materials	# of Items	Cost/Item	Total	
				\$0.00
				\$0.00
				\$0.00
				\$0.00
Non-Standard Calculation				
Total Supplies/Materials				\$0.00
Total Supplies/Materials				φ0.00
Printing				
Standard Calculation				
Paper Material	# of Units	Cost/Unit	Total	
				\$0.00
Non-Standard Calculation				
				\$0.00
Total Printing				\$0.00
0// 5				
Other Expenses Standard Calculation				
Item	# of Units	Cost/Unit	Total	
item	# Of Office	COSTOTIL	Total	\$0.00
				\$0.00
				\$0.00
				\$0.00
Non-Standard Calculation				7000
Total Other				\$0.00
Subtotal Direc	t Costs		\$34,600.00	
Oubtotal Bilec			Ψυπ,υυυ.υυ	
Cooperator Indirect Costs				
Cooperator munect costs				
Current Overhead Rate Subtot	al Direct Costs		Total	
Canoni Cromoda Nato	\$34,600.00		1 otal	\$0.00
Total Coop. Indirect Costs	,,			\$0.00
			<u> </u>	
TOTAL COST		¢2	4 600 00	
TOTAL COST		Ψ 34	4,600.00	

Cooperator In-Kind Contribution Cost Analysis, Column (d)

Use this worksheet to perform the cost analysis that supports the lump sum figures provided in the matrix. NOTE: This worksheet auto populates the relevant and applicable matrix cells.

Cost element sections may be deleted or lines may be hidden, if not applicable. Line items may be added or deleted as needed. The Standard Calculation sections provide a standardized formula for determing a line item's cost, e.g. cost/day x # of days=total, where the total is calculated automatically. The Non-Standard Calculation sections provide a write-in area for line items that require a calculation formula that is other than the standardized formules, e.g. instead of salaries being calculated by cost/day x # of days, costs may be calculated simply by a contracted value that is not dependent on days worked, such as 1 employee <math>cost/day x # of days, cost x # of days # of days

Salaries/Lab	or	7			
Standard Calculation		_			
Job Description		Cost/Day	# of Days	Total	
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Non-Standard Calculation	n				
Total Salaries/Labor					\$0.00
Travel		ī			
Standard Calculation					
Travel Expense	Employees	Cost/Trip	# of Trips	Total	
	•				\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
Non-Standard Calculation	n				
Total Travel					\$0.00
Equipment		Ī			
Standard Calculation					
Piece of Equipment	# of Units	Cost/Day	# of Days	Total	
					\$0.00
					\$0.00

\$0.00 \$0.00 \$0.00

Non-Standard Calculation						
Total Equipment						\$0.00
1.1.	4					, , , , , ,
Supplies/Materi	ala	1				
Standard Calculation	ais					
Supplies/Materials		# of Items	Cost/Item		Total	
						\$0.00
						\$0.00 \$0.00
						\$0.00
Non-Standard Calculation						
Total Supplies/Materials						\$0.00
Printing		I				
Standard Calculation						
Paper Material		# of Units	Cost/Unit		Total	#0.00
Non-Standard Calculation						\$0.00
Non Standard Salodiation						
Total Printing						\$0.00
Other Expense	es es					
Standard Calculation		I // C 1 //	Io (#1.5)	1	T=	
Item	<u> </u>	# of Units	Cost/Unit		Total	\$0.00
						\$0.00
						\$0.00
Non-Standard Calculation						\$0.00
Ctandard Calculation						
Total Other	1				1	<u> </u>
Total Other	J					\$0.00
Subtotal D	irect C	osts		\$0.0	00	
TOTAL CO	DST		9	0.00		

Secure Rural Schools & Community Self-Determination Act Reauthorized by Public Law 115-141 Title II Project Submission Form USDA Forest Service

___Resource Advisory Committee

Project Number (Assigned by Designated Federal Official):

Funding Fiscal Year(s): 2. Project Name: 3a. State: 3b. County(s): 4. Project Submitted By: 5. Date: 6. Contact Phone Number: 7. Contact E-mail: 8. Project Location: a. National Forest(s): b. Forest Service District: c. Location (Township-Range-Section) 9. Project Goals and Objectives: 10. Project Description: a. Brief: (in one sentence) b. Detailed: 11. Types of Lands Involved? State/Private/Other lands involved? Yes **Land Status:** If Yes, specify: 12. How does the proposed project meet purposes of the Legislation? (Check at least 1) ☐ Improves maintenance of existing infrastructure. Implements stewardship objectives that enhance forest ecosystems. Restores and improves land health. Restores water quality

a. Check all that apply: (check at least 1) Road Maintenance	☐ Trail Maintenance	
Road Decommission/Obliteration	☐ Trail Obliteration	
Other Infrastructure Maintenance (specify):		
Soil Productivity Improvement	Forest Health Improvement	
☐ Watershed Restoration & Maintenance	☐ Wildlife Habitat Restoration	
Fish Habitat Restoration	Control of Noxious Weeds	
Reestablish Native Species	☐ Fuels Management/Fire Prevention	
☐ Implement CWPP Project	Other Project Type (specify):	
b. Primary Purpose (select only 1 from above):		
14. Identify What the Project Will Accomp	slich	
Miles of road maintained:	741/41	
Miles of road decommissioned/obliterated:		
Number of structures maintained/improved:		
Acres of soil productivity improved:		
Miles of stream/river restored/improved:		
Miles of fish habitat restored/improved:		
Acres of native species reestablished:		
Acres of hazardous fuel treatment		
Miles of trail maintained:		
Miles of trail obliterated:		
Acres of forest health improved (including fuels re	eduction):	
Acres of rangeland improved:		
Acres of wildlife habitat restored/improved:		
Acres of noxious weeds controlled:		
Timber volume generated (mbf):		
Jobs generated in full time equivalents (FTE) to ne	earest tenth. One FTE is 52 forty hour weeks:	
People reached (for environmental education proje	ects/fire prevention):	
Direct economic activity benefit:		
Other:		

15. Estimated Project Start Date:	16. Estimated Project Completion Date:
17. List known partnerships or collabora	ative opportunities.
18. Identify benefits to communities.	
•	
19. How does the project benefit federal l	lands/resources?
20. What is the Proposed Method(s) of A	Accomplishment? (check at least 1)
Contract	Federal Workforce
County Workforce	☐ Volunteers
Grant	Agreement
Americorps	☐ YCC/CCC Crews
☐ Job Corps	☐ Stewardship Contract
☐ Merchantable Timber Pilot	Other (specify):
22. Anticipated Project Costs a. Title II Funds Requested:	
b. Is this a multi-year funding request? Yes	□No
on your environmental and communi	ocess for tracking and explaining the effects of this project ity goals outlined above.
b. Identify who will conduct the monito	oring:
c. Identify total funding needed to carry	out specified monitoring tasks (Worksheet 1, Item k):
25. Identify remedies for failure to comply If project cannot be completed under the term Unused funds will be returned to the RAG Other, please explain:	ns of this agreement:
Project Recommended By:	Project Approved By:
Chairperson	Forest Supervisor
Resource Advisory Committee	National Forest

Project Cost Analysis Worksheet

Worksheet 1

Please submit this worksheet with your proposal

Item	Column A Fed. Agency Appropriated Contribution	Column B Requested Title II Contribution	Column C Other Contributions	Column D Total Available Funds
a. Field Work & Site Surveys				
b. NEPA/CEQA				
c. ESA Consultation				
d. Permit Acquisition				
e. Project Design & Engineering				
f. Contract/Grant Preparation				
g. Contract/Grant Administration				
h. Contract/Grant Cost				
i. Salaries				
j. Materials & Supplies				
k. Monitoring				
1. Other - ex Partner Indirect Cost				
m. Project Sub-Total				
n. FS Indirect Costs				
Total Cost Estimate				

NOTES:

- Col. A: FS costs incurred as part of proposal implementation. Coordinate with FS to identify any FS cost for items in Col. A.
- Col. B: Title II funding requested to implement the proposal.
- **Col. C**: Matching funds being contributed by proponent or third parties. Proposals funded with a Participating Agreement will require a minimum 20% match.
- Col. D: Sum of columns A, B, and C for each individual row.
- **Row A:** Costs associated with project planning, not project implementation, such as assessment of miles of trail needing maintenance. Assessments and planning needed to develop a specific proposal. For Col. B: proponents must request permission in advance to request Title II funds to complete NEPA/CEQA analyses, as this is expected to be completed prior to proposal submission.
- Rows B, C, D, and E: cost associated with environmental compliance and project design. Proponents must request permission in advance to request Title II funds to complete NEPA/CEQA analyses, as this is expected to be completed prior to proposal submission.
- **Row G**: Costs associated with preparation of contract or agreement instruments used to implement the proposal. Contracts used to complete projects have special provisions; contact the FS to identify these early in the process.
- Row G: Costs associated with administration of contract or agreement instruments used to implement the proposal.
- **Row H:** Estimated value of any contracts/agreements used to implement proposal. Contracts/agreements used to complete projects have special provisions; contact the FS to identify these early in the process.
- Row I: Cost of salaries to implement project
- Row L: Examples include overhead charges from other partners, vehicles, equipment rentals, travel, etc.
- Row K: Costs associated with performing monitoring described in Items 24a, 24b, and 24c. Amounts should be similar between Item 24 and Row K.
- Row N: Forest Service indirect costs, including contracting/grant officer costs if needed.

Version: October 2019 4

Example / Template

Secure Rural Schools & Community Self-Determination Act Reauthorized by Public Law 115-141 Title II Project Submission Form USDA Forest Service

Sam Houston NF Resource Advisory Committee
Project Number (Assigned by Designated Pederal Official):

Funding Fiscal Year(s): FY2020, FY2019 2. Project Name: Stubblefield Lake Rd Asphalt Resurfcaing 3a. State: TX 3b. County(s): Walker 4. Project Submitted By: Ruben Torres 5. Date: 07/01/2021 6. Contact Phone Number: 936-438-0180 7. Contact E-mail: ruben.s.torres@usda.gov 8. Project Location: Walker County, Texas, Stubblefield Lake Rd a. National Forest(s): Sam Houston National Forest | b. Forest Service District: Sam Houston Ranger District c. Location (Township-Range-Section) Stubblefield Lake Rd (Between Gus Randel Rd and FSR 216) 9. Project Goals and Objectives: Road repair and Asphalt resurface of Stubblefield Lake Rd 10. Project Description: Asphalt resurface of 5000' linear feet of Stubblefield Lake Rd a. Brief: (in one sentence) b. Detailed: See Attached for Detailed Scope of Work 11. Types of Lands Involved? State/Private/Other lands involved? Yes ■ No Land Status: National Forest If Yes, specify: 12. How does the proposed project meet purposes of the Legislation? (Check at least 1) Improves maintenance of existing infrastructure. Implements stewardship objectives that enhance forest ecosystems. Restores and improves land health. Restores water quality

13. Project Type a. Check all that apply: (check at least 1)			
■ Road Maintenance	☐ Trail Maintenance		
Road Decommission/Obliteration			
Other Infrastructure Maintenance (specify):			
Soil Productivity Improvement	Forest Health Improvement		
☐ Watershed Restoration & Maintenance	☐ Wildlife Habitat Restoration		
Fish Habitat Restoration	☐ Control of Noxious Weeds		
Reestablish Native Species	☐ Fuels Management/Fire Prevention		
☐ Implement CWPP Project	Other Project Type (specify):		
b. Primary Purpose (select only 1 from above):			
f			
14. Identify What the Project Will Accomplish			
Miles of road maintained: Resurface 0.95 (5000')	of Stubblefield Lake Rd		
Miles of road decommissioned/obliterated:			
Number of structures maintained/improved:			
Acres of soil productivity improved:			
Miles of stream/river restored/improved:			
Miles of fish habitat restored/improved:			
Acres of native species reestablished:			
Acres of hazardous fuel treatment			
Miles of trail maintained:			
Miles of trail obliterated:			
Acres of forest health improved (including fuels reduction):			
Acres of rangeland improved:			
Acres of wildlife habitat restored/improved:			
Acres of noxious weeds controlled:			
Timber volume generated (mbf):			
Jobs generated in full time equivalents (FTE) to nearest tenth. One FTE is 52 forty hour weeks:			
People reached (for environmental education projects/	fire prevention):		
Direct economic activity benefit:			
Other:			

15. Estimated Project Start Date:	16. Estimated Project Completion Date:
17. List known partnerships or collaborative of Cooperative Road Maintenance Agreement v. 18. Identify benefits to communities. Road provides through access to 2 high traffit. 19. How does the project benefit federal lands/Provides access to Stubblefield Lake recreat.	with Walker County c FM roads and access for 2 subdivisions resources?
20. What is the Proposed Method(s) of Accon	nplishment? (check at least 1)
Contract	Federal Workforce
County Workforce	☐ Volunteers
Grant	Agreement
Americorps	☐ YCC/CCC Crews
☐ Job Corps	Stewardship Contract
Merchantable Timber Pilot	Other (specify):
on your environmental and community gos b. Identify who will conduct the monitoring: c. Identify total funding needed to carry out s 25. Identify remedies for failure to comply with	for tracking and explaining the effects of this project als outlined above. specified monitoring tasks (Worksheet 1, Item k): a the terms of the agreement.
If project cannot be completed under the terms of Unused funds will be returned to the RAC acc Other, please explain: Project Recommended By	9
Danjone & Date 8/1	7/2/ TAYLOR Date: 2021.09.21 12:39:16 -05'00' Date
Doug Page Chairperson, Resource Advisory Committee	William E Taylor Forest Supervisor, National Forests & Grasslands in Texas

Project Cost Analysis Worksheet

Worksheet 1

Please submit this worksheet with your proposal

Item	Column A Fed. Agency Appropriated Contribution	Column B Requested Title II Contribution	Column C Other Contributions	Column D Total Available Funds
a. Field Work & Site Surveys				
b. NEPA/CEQA				
c. ESA Consultation				
d. Permit Acquisition				
e. Project Design & Engineering				
f. Contract/Grant Preparation				
g. Contract/Grant Administration				
h. Contract/Grant Cost		1		
i. Salaries (est County)				\$8,000
j. Materials & Supplies		\$77,114.53		
k. Monitoring				
l. Other - Equipment				\$23,000
m. Project Sub-Total				
n, FS Indirect Costs				
Total Cost Estimate				

NOTES:

- Col. A: FS costs incurred as part of proposal implementation. Coordinate with FS to identify any FS cost for items in Col. A.
- Col. B: Title II funding requested to implement the proposal.
- Col. C: Matching funds being contributed by proponent or third parties. Proposals funded with a Participating Agreement will require a minimum 20% match.
- Col. D: Sum of columns A, B, and C for each individual row.
- Row A: Costs associated with project planning, not project implementation, such as assessment of miles of trail needing maintenance. Assessments and planning needed to develop a specific proposal. For Col, B: proponents must request permission in advance to request Title II funds to complete NEPA/CEQA analyses, as this is expected to be completed prior to proposal submission.
- Rows B, C, D, and E: cost associated with environmental compliance and project design. Proponents must request permission in advance to request Title II funds to complete NEPA/CEQA analyses, as this is expected to be completed prior to proposal submission.
- Row G: Costs associated with preparation of contract or agreement instruments used to implement the proposal. Contracts used to complete projects have special provisions; contact the FS to identify these early in the process.
- Row G: Costs associated with administration of contract or agreement instruments used to implement the proposal.
- Row H: Estimated value of any contracts/agreements used to implement proposal. Contracts/agreements used to complete projects have special provisions; contact the FS to identify these early in the process.
- Row I: Cost of salaries to implement project
- Row L: Examples include overhead charges from other partners, vehicles, equipment rentals, travel, etc.
- Row K: Costs associated with performing monitoring described in Items 24a, 24b, and 24c. Amounts should be similar between Item 24 and Row K.
- Row N: Forest Service indirect costs, including contracting/grant officer costs if needed.



FS Agreement No.	22-RO-11081300-110			
Cooperator Agreement No.				

COOPERATIVE FOREST ROAD AGREEMENT Between The WALKER, COUNTY OF And The USDA, FOREST SERVICE SAM HOUSTON NATIONAL FOREST

<u>PARTIES TO AGREEMENT:</u> This agreement, made and entered into this the 28 day of February, 2022, by and between the Walker, County Of, hereinafter referred to as "Cooperator," and the USDA, Forest Service Sam Houston National Forest, hereinafter referred to as the "U.S. Forest Service."

<u>PURPOSE OF AGREEMENT:</u> The purpose of this agreement is to set forth the general terms and conditions, acceptable to the parties hereto, for the cooperative planning, survey, design, construction, reconstruction, improvement, and maintenance of certain Forest Roads in Walker, County Of, State of Texas, pursuant to the provisions of 16 U.S.C. 532-538, 23 U.S.C. 205, and the regulations issued by the Secretary of Agriculture.

The Congress has, from time to time, authorized and appropriated funds for "Forest Roads," which are defined as "those Forest roads of primary importance for the protection, administration, and utilization of the National Forests, or where necessary, for the use and development of the resources upon which communities within or adjacent to the National Forests are dependent." Recognizing that substantial benefits will accrue to the Nation and to the State from the construction, reconstruction, improvement, maintenance, and use of certain Forest roads and roads on the State or local road system over which Cooperator has/have jurisdiction, and further that such roads carry substantial volumes of public service traffic as well as National Forest traffic, and further that Cooperator has/have road construction, reconstruction, improvement, maintenance, and right-of-way acquisition facilities available to assist in the accomplishment of the work, it is accordingly deemed fitting and desirable to the parties hereto to express by this agreement the general terms of their mutual cooperation in that regard to achieve the maximum benefits therefrom in the public interest.

- 1. <u>INTENT TO COOPERATE</u>. It is the intention of the parties under this agreement to cooperate as follows:
 - a. Agree that certain roads under the jurisdiction of Cooperator or the U.S. Forest Service which serve the National Forest and also carry traffic which is properly the responsibility of Cooperator should be maintained and, if necessary, improved to a



standard adequate to accommodate safely and economically all traffic which uses such roads.

- b. Agree on the identification of roads or road segments which meet the criteria in item a by a listing and appropriate maps.
- c. Provide for formal meetings and informal consultation on a regular basis to discuss and agree on action with respect to the roads identified pursuant to item b.
- d. Provide for regular and adequate maintenance of the roads identified in item b, including the assignment of maintenance responsibilities.
- e. Provide for entering into project agreements when improvements of a road under the jurisdiction of one party is to be financed in whole or in part from funds or resources provided by the other party.
- f. Provide for appropriate jurisdictional status of roads through transfer of easements and acquisition of easements by the appropriate party.
- 2. IDENTIFICATION OF ROADS. A list of roads and segments of roads which meet the criteria set forth in item 1a is agreed upon and is marked "Schedule A" and attached as part of this agreement. Schedule A may be modified from time to time by agreement between Cooperator and U.S. Forest Service, by adding or removing roads or road segments, or by altering the description of a road or road segments, to give it proper identity. Each such modification shall be indicated by a revised Schedule A bearing the signatures of the parties or their authorized representatives and the effective date of the revision.
- 3. MAINTENANCE PLANS. At the annual meeting provided for in item 6, plans for maintaining the roads listed in Schedule A shall be agreed upon. Such plans shall include assignment of responsibility for maintenance or particular elements of maintenance to Cooperator or U.S. Forest Service for each road or segment of road listed in Schedule A. To the extent practical, and subject to availability of funds, responsibility for maintenance shall be assigned in proportion to use for which each party is properly responsible.

Maintenance shall include preserving and keeping the roads, including structures and related facilities as nearly as possible in their original condition as constructed or reconstructed to provide satisfactory and safe road service.

Maintenance plans shall provide for prompt changes in maintenance assignments during the period of the plan upon agreement by the parties or their designated representatives.

4. <u>PROJECT AGREEMENTS</u>. When improvement of a road listed in Schedule A is to be financed in whole or in part from funds or resources provided by the party not having jurisdiction, the parties shall enter into a project agreement providing for performing the improvement work and its financing. A project agreement is not required for



improvement of a road or a road segment over which the party performing and financing such improvement has jurisdiction. Project agreements shall be supplements to this general agreement and subject to the agreements, provisions, and conditions herein contained.

- a. A project agreement shall be entered into prior to beginning of improvement or construction work for which a project agreement is required.
- b. The project agreement shall include the following elements:
 - 1. Identification of road or road segment to be improved or constructed.
 - 2. Plans and specifications for the project or provision for their development and subsequent agreement thereon.
 - 3. Schedule of construction or improvement work and designation of the party or parties to perform the work.
 - 4. Estimates of cost of improvement or construction.
 - 5. Agreement as to how cost of work is to be borne including arrangements to share in the work or to deposit funds with the performing party for a share of the costs.
- c. If funds are provided by Cooperator on an advance basis for work to be performed by the U.S. Forest Service, they shall be deposited in the Treasury of the United States to the credit of cooperative work, U.S. Forest Service. Any unused balance of cooperative funds for the purposes outlined in the project agreement shall be returned to Cooperator after completion of the work performed or upon agreement of the U.S. Forest Service. If the cooperative funds are made available on a reimbursement basis as the work progresses or upon its completion, the U.S. Forest Service shall submit to Cooperator periodic billings, but not more often than monthly, or a final billing as the case may be.

The amount of cooperative funds as set forth in the project agreement shall be the maximum commitment of Cooperator to the project unless changed by a modification of the project agreement.

If funds are provided by the U.S. Forest Service for work to be performed by Cooperator the arrangements shall be set forth in the project agreement. Payments to Cooperator shall be made as provided for in the project agreement.

If it appears that the project cost may exceed the estimate and additional funds may be needed, no obligation shall arise against the Federal government with respect to the increased cost except by modification of the project agreement prior to incurring any commitment.



5. <u>RIGHTS-OF-WAY</u>. Easements or other interests in land acquired by either party shall be adequate to serve the road needs of both parties. The party having jurisdiction of an existing road or intended to have jurisdiction of a road to be constructed shall obtain the needed rights-of-way in its name. There shall be no provisions in any easement document that will prevent the U.S. Forest Service from using or authorizing the use of roads for which Federal funds were expended. Cooperator must be in a position to assure the U.S. Forest Service the continuance of such uses for the period needed. The party acquiring the easement or other interest in land shall obtain such title evidence and title approval as required in its acquisitions for roads of comparable standards.

The costs of such easements or other interests in land are to be at the expense of the acquiring party.

The U.S. Forest Service shall cooperate in the procurement of rights-of-way over land administered by other agencies of the United States required for any project included under this agreement and shall furnish Cooperator copies of survey notes, maps, and other records.

To the extent possible under available authority, each party agrees to convey easements over lands or interests in lands it owns or administers to the other party in order to provide jurisdiction by the appropriate party as may be agreed to for any road or road segment listed on Schedule A.

- 6. ANNUAL MEETING AND CONTINUING CONSULTATION. Cooperator and U.S. Forest Service shall meet at least once each year to review matters covered by this agreement and to agree on actions to implement this agreement including, but not limited to, (1) approval of changes in the listing of roads on Schedule A; (2) approval of the annual maintenance plan; (3) approval of project agreements for construction or reconstruction; and (4) approval of transfer of jurisdiction of particular roads by easement conveyance. It is also the intent of the parties to arrange for continuing consultation between their representatives with the objective of reaching prompt agreement by the parties on all matters of mutual concern which are covered by this agreement. The Forest Supervisor of the Sam Houston National Forest for the U.S. Forest Service, and Cooperator for Cooperator shall be responsible for making the arrangements for formal meetings and continuing consultation.
- 7. TEXT MESSAGING WHILE DRIVING. In accordance with Executive Order (EO) 13513, "Federal Leadership on Reducing Text Messaging While Driving," any and all text messaging by Federal employees is banned: a) while driving a Government owned vehicle (GOV) or driving a privately owned vehicle (POV) while on official Government business; or b) using any electronic equipment supplied by the Government when driving any vehicle at any time. All Cooperatives, their Employees, Volunteers, and Contractors are encouraged to adopt and enforce policies that ban text messaging when driving company owned, leased or rented vehicles, POVs or GOVs when driving while on official Government business or when performing any work for or on behalf of the



Government.

8. MODIFICATION AND TERMINATION.

- a. This agreement may be modified by mutual consent.
- b. This agreement may be terminated by either party upon at least 60 days prior written notice, except that such termination shall in no way affect or change any commitment made authorizing the use of roads or rights-of-way for purposes for which Federal funds were expended, or any operation in progress at time of notice, and provided that such termination shall in no way affect the agreement of the parties hereto with respect to any obligations incurred under the agreement until a full settlement has been made.

9. MISCELLANEOUS.

- a. The United States shall not be liable to the recipient for any costs, damages, claims, liabilities, and judgments that arise in connection with the performance of work under this award, including damage to any property owned by the recipient or any third party.
- b. Nothing herein contained shall be construed to obligate the U.S. Forest Service or Cooperator beyond the extent of available funds allocated or programmed for this work, or contrary to applicable laws, rules, and regulations.
- c. No Member of, or Delegate to, the Congress, or Resident Commissioner, shall be admitted to any share or part of this agreement or to any benefits that may arise therefrom, unless it is made with a corporation for its general benefit.
- d. Where applicable, any contract, agreement, or understanding entered into pursuant to this agreement providing for work to be performed shall include the requirements of Federal laws, Executive orders, and Regulations.
- 10. <u>PRINCIPAL CONTACTS</u>. Individuals listed below are authorized to act in their respective areas for matters related to this agreement.

Principal Cooperator Contacts:

Cooperator Program Contact

Honorable Danny Pierce 1100 University Ave Rm 204 Huntsville, TX 77340 936-436-4914 dpierce@co.walker.tx.us



Principal U.S. Forest Service Contacts:

U.S. Forest Service Program Manager Contact	U.S. Forest Service Administrative Contact
Willian Peavy	Ruben Torres
394 FM 1375 West	394 FM 1375 West
New Waverly, TX 77358	New Waverly, TX 77358
936-639-8535,	p: 936-337-7089
william.peavy@usda.gov	f: 936-639-8588
	ruben.s.torres@usda.gov

11. ASSURANCE REGARDING FELONY CONVICTION OR TAX DELINQUENT STATUS FOR CORPORATE ENTITIES. This agreement is subject to the provisions contained in the Department of Interior, Environment, and Related Agencies Appropriations Act, 2012, P.L. No. 112-74, Division E, Section 433 and 434 as continually by Consolidated and Further Continuing Appropriations Act, 2013, P.L. No. 113-6, Division F, Title I, Section 1101 (a)(3) regarding corporate felony convictions and corporate federal tax delinquencies. Accordingly, by entering into this agreement Cooperator acknowledges that it: 1) does not have a tax delinquency, meaning that it is not subject to any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability, and (2) has not been convicted (or had an officer or agent acting on its behalf convicted) of a felony criminal violation under any Federal law within 24 months preceding the agreement, unless a suspending and debarring official of the United States Department of Agriculture has considered suspension or debarment is not necessary to protect the interests of the Government. If Cooperator fails to comply with these provisions, the U.S. Forest Service will annul this agreement and may recover any funds Cooperator has expended in violation of sections 433 and 434.

12. SYSTEM FOR AWARD MANAGEMENT REGISTRATION REQUIREMENT (SAM). Cooperator shall maintain current information in the System for Award Management (SAM) until receipt of final payment. This requires review and update to the information at least annually after the initial registration, and more frequently if required by changes in information or agreement term(s). For purposes of this agreement, System for Award Management (SAM) means the Federal repository into which an entity must provide information required for the conduct of business as a Cooperative. Additional information about registration procedures may be found at the SAM Internet site at www.sam.gov.



- 13. COMMENCEMENT/EXPIRATION DATE. This agreement is executed as of the date of last signature and is effective through 02/27/2027 at which time it will expire. The expiration date is the final date for completion of all work activities under this agreement.
- 14. <u>AUTHORIZED REPRESENTATIVES.</u> By signature below, the parties certify that the individuals listed in this document as representatives of each party are authorized to act in their respective areas for matters related to this agreement.

This agreement shall be effective as of the date herein written and shall supersede all prior existing agreements, if any, for the same roads.

Walker, County Of

KIMPTON COOPER Digitally signed by KIMPTON COOPER Date: 2022.07.28 13:58:29 -05'00'

KIMPTON M. COOPER, Forest Supervisor

Date

U.S. Forest Service, National Forests and Grasslands in Texas

The authority and format of this agreement have been reviewed and approved for

signature. **STEVEN HARRIS**

Digitally signed by STEVEN HARRIS Date: 2022.02.22 11:21:25 -05'00'

STEVEN HARRIS JR.

Date

U.S. Forest Service Grants Management Specialist

Burden Statement



According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0217. The time required to complete this information collection is estimated to average 4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call toll free (866) 632-9992 (voice). TDD users can contact USDA through local relay or the Federal relay at (800) 877-8339 (TDD) or (866) 377-8642 (relay voice). USDA is an equal opportunity provider and employer.

SCHEDULE A

Sam Houston

National Forest

County, State of Texas

USFS Acquisition Number: 606234

KIMPTON COOPER Digitally signed by KIMPTON COOPER Date: 2022.07.28 13:59:29 -05'00' Walker

Date

Kimptom Cooper, Forest Supervisor

Danny Pierce, County Judge

Date

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& SIGNING	Insert Operating Maint. Level for all NFSR; X for County	ALL ALL COUNTY USFS	×			×	×	×	×	×
RESTRICTIONS	Jurisdiction to control and Restrictions to control and Restrictions to regulate use. Both traffic, including County and USFS class of vehicle, have law weight, width, enforcement seasonal use. jurisdiction.									
USFS ROW	USFS has jurisdiction to control and pulate use. Both ourly and USFS have law enforcement jurisdiction.	OWN EASEMENT (USFS								
USF	US jurist con regulate County ha enfo	OWN (USFS		×	×					
	ent and authority se.	CLAIMED (Jud. Dec. required)								
COUNTY ROW	County has jurisdiction for law enforcement and authority to control and regulate use.	EASEMENT							×	×
	County has jurisdic	OWN				×	×	×		
		LENGTH	0.18	1.52	1.04	1.56	1.63	0.21	1.23	0.75
	606234	TERMINI	FM 1791 to Forest Service Boundary	FM 1791 to Derek Rd	County Line Rd to Boundary	FM 1374 to Hightower Cemetery	Ball Rd to Boundary	US 190 to Boundary	Joe Novak Rd to Boundary	US 190 to Boundary
		ROAD NUMBER NFSR COUNTY								
		NUN NUN NFSR		208	208B					
	USFS Acquisition Number:	ROAD NAME	Dawson Lane/Winery Rd	County Line Rd	Derek Rd	Ball Rd - Cotton Creek Cemetery Rd	Bath Ln	lda Olivia Rd	Thompson Rd	Joe Novak Rd

	74								6			m					m	
×		×	×	×	×	×	×	×		×	×		×	×	×	×		
	Yes, open road, maintained for high clearance vehicle																	
	×								×			×					×	
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	×		×									×	×	×		×	×	
×		×		×	×	×	×	×		×	×				×			
1.70	0.53	2.24	0.29	0.75	0.29	0.26	2.65	0.44	0.46	0.17	09:0	0.15	2.23	2.21	6.82	0.55	0.39	4
US 190 to Grant Colony Cemetery	FM 2821 to Boundary	FM 1374 to Stubblefield bridge	Stubblefield Lake Rd to Boundary	Stubblefield Lake Rd to Boundary	FM 1374 to Boundary	FM 1374 to Boundary	FM 1374 to Lost Meadows Ranch	Lost Meadows Rd to Boundary	Lost Meadows Rd to Hidden Manna Rd	FSR 222 to Boundary	FM 1375 to Boundary	SH 75 to Cemetery	SH 75 to Boundary	FM 2296 to Boundary	FM 2296 to Boundary	Four Notch to Boundary	Four Notch to FSR 223 intersection	
	2005	215							222			281					223	
Grant Cemetery Rd	King Rd	Stubblefield Lake Rd	Pipken Rd	Gus Randel Rd	Sandel Dr	Bucking Bull Rd (Fullers Dairy Rd)	Lost Meadows Rd	Gilley Rd	FSR 222	Hidden Manna Rd	Little Loop Rd	Mitchell Cemetery Rd	Evelyn Ln	Black Jack Rd - Black Jack Cemetery	Four Notch	JD Edwards Rd	Ballew Rd	TK Single Ba

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1.77	0.91	2.63	1.82	1.79	1.19	0.93	1.15	0.71		
FSR 200 to FSR 246	FSR 207 to FSR 206	FSR 246 to Three Notch Rd	FSR 206 to Watson Lake Rd	FM 2296 to Three Notch Rd	SH 190 to Boundary	FM 1375 to Gulf Coast Trades Center	Walker County/ San Jacinto County line to Boundary	Boundary to MP 0.71		
207	246	206				233				
Dodge Rd	Watergate Rd	Phelps Rd	Three Notch Rd	Mathis Dairy Rd	McFaddin Rd	FSR 233	Cleveland Cemetery Rd (Hunters Hill Rd)	Old Phelps Rd		

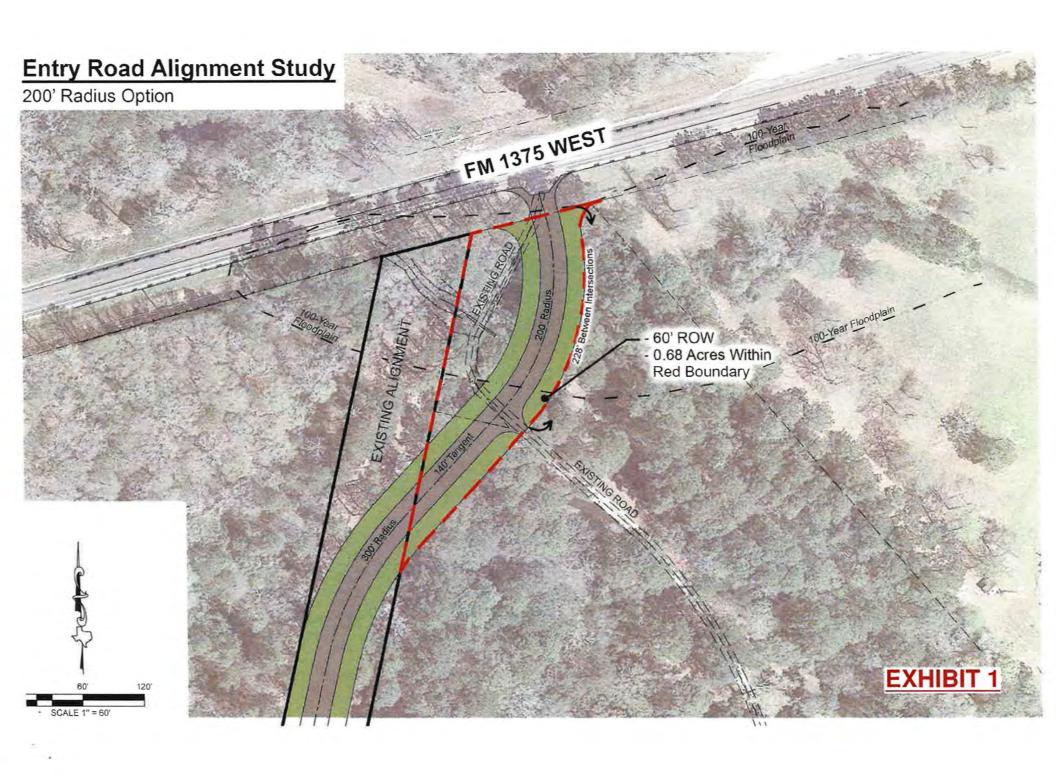
VARIANCE REQUEST TO THE SUBDIVISION REGULATIONS OF WALKER COUNTY, TEXAS

Copy all pages of this form and all attachments for (1) community official, (2) building owner. If any section is not applicable to the proposed development project please mark that section "NA"

SECTION A - PRO	OPERTY INFORMATION	FOR COUNTY	USE ONLY
A1. Property Owner's Name		Application Nur	mber:
West Waverly Ranch, I	LC	P-20	022-035
A2. Property Owner's Street Address		Date of Submitt	al:
		5-2	-23
City	State	ZIP Code	
New Waverly	Texas	77358	
A3. Property Owner's Email Address	A4. Property Ov	vner's Telephone Number	
Sadler J (A-45), Tract 3, Acres 116.	47 NFORMATION FOR PROPOSED	SUBDIVISION TRACT	
(For projects involving multiple map panels		**************************************	ional attachment)
B1. Survey and Abstract Sadler J (A-45)	B2. Tax ID Number(s) of 68862		Deed Volume/Page 786
B4. Existing or Proposed Name of Subdivision Homestead Hill	B5. Is the application for a Subdivision? (Yes/No)	division of a lot in an Existing Plat	tted
THE ABOVE NAMED APPLICANT DOES HER FOR A VARIANCE TO THE REGULATORY TEXAS.			
	SECTION C – LIST OF ATTACHMEN		nments.
D	escription of Attachment(s)	77 22 2	Exhibit #
C.1 FEMA-mapped Floodplain overlaid	on proposed plat.		1
C.2 FEMA Estimated Base Flood Elevat	ion Viewer within subject area.		2
Opinion from a PE (Professional En	gineer) and CFM (Certified Floor	dplain Management)	3
2.4			

Walker County, Texas as follows: Variance of performing an Engineering Flood Study of the Zone A Floodplain impacting the propose roadway closest to FM 1375. The existing Zone A does not impact any habitable proposed habitable structures. SECTION E – APPLICANT'S JUSTIFICATION AND PRESENTATION FACTORS EFFECTING VARIANCE ance requests to the Walker County Subdivision Regulations need to be included along with the Section(s) of the Regulation to which they a leave requests to the Walker County Subdivision Regulations need to be included along with the Section(s) of the Regulation to which they a leave requests to the Walker County Subdivision Regulations need to be included along with the Section(s) of the Regulation to which they a leave requests to the Walker County Subdivision Regulations need to be included along with the Section(s) of the Regulation to which they a leave requested to the design or construction of improvements to be constructed within the subdivision Yes	D.1	A Variance is requested to Section(s) 4.37, Page 21	of the Subdivision Regulations of						
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also being installed with much better drainage than the existing roadway (two rows of 5'x4' boxes	E.4	Does the applicant propose any additional conditions, mitigation within the Walker County Subdivision Regulations that will or ha of the variance being granted? Yes No Please list the additional	we been met by the applicant as a condition measures below.						
	E.4	Does the applicant propose any additional conditions, mitigation within the Walker County Subdivision Regulations that will or ha of the variance being granted? Yes No Please list the additional The developer is proposing a roadway which is significantly	measures below. y superior the the existing Krystyniak						

•	SECTION F -VARIANCE(S) GRANTED	
F.1 A VARIANCE TO THE W	VALKER COUNTY SUBDIVISION REGULATIONS IS (GRANTED AS FOLLOWS:
F.2 THE FOLLOWING COND	DITIONS ARE ATTACHED TO THE VARIANCE:	
SECTIO	ON G - NOTICE, ACKNOWLEDGEMENT, AND CE	RTIFICATIONS
STATED WITHIN THE APPLICATION RESULT IN THE IMMEDIATE SUSP	TRICT COMPLIANCE WITH THE CONDITIONS STATION OR DURING THE PRESENTATION TO COMMISPENSION OR CANCELLATION OF THIS VARIANCE. THE COMMISIONERS COURT SEEKING INJUNCTIVE	SIONERS COURT. ANY VARIATION MAY VIOLATION OF THE CONDITIONS OF THIS
	WARNING S THAT HE/SHE IS RESPONSIBLE TO ENSURE THAT CENT PROPERTIES AND COMPLIES WITH LOCAL, DISCLAIMER	
LIABLE FOR DAMAGES OR LOSS RELIANCE UPON THE STATEME APPLICATION AND PRESENTATIO I, Diego Espinosa	F WALKER COUNTY AND ANY OFFICER OR EMP RESULTING FROM THE GRANTING OF THIS VAR ENTS AND EVIDENCE SUPPLIED BY THE APPL ON TO COMMISSIONERS COURT. , do hereby acknowledge	RIANCE. THIS VARIANCE IS GRANTED IN LICANT AND HIS/HER AGENTS IN THE that I have reviewed the provisions, notices,
	e and that I understand them, agree with them and inte	
gnature of Owner/Applicant		Date 5/1/2023
SECTION	ON H - ACTION ON VARIANCE BY COMMISSION	IER'S COURT
	reason(s) for the request of variance, the Committee scope of the variance procedures as out	
egulations to	this request for variance.	
ommissioner's Court Signature	Printed Name	Date
gnature of Owner/Applicant acknow	vledging conditions after court action.	Date



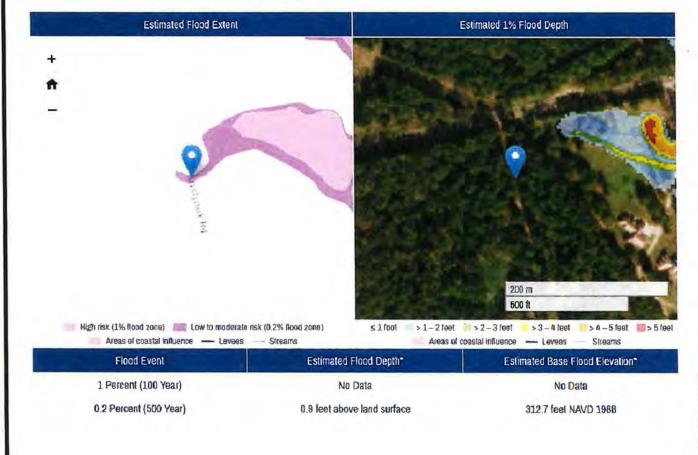
Estimated Base Flood Elevation (estBFE)



Flood Risk Information Report

Latitude 30.5331, Longitude -95.5024 (Walker County, TX)

FEMA is providing a look at flood data availability and relative Base Level Engineering analysis through the Estimated Base Flood Elevation Viewer (Estimated BFE Viewer). Base Level Engineering uses high resolution ground elevation data, flood flow calculations, and fundamental engineering modeling techniques to define flood extents for streams. The viewer is an effective tool for property owners, community officials, and land developers to identify flood risk, estimated flood elevations, and flood depths for watersheds where Base Level Engineering has been prepared.



*PROPOSED LOWEST TOP OF PAVEMENT ELEVATION OVER THE CREEK IS INTENDED TO BE ABOVE ELEVATION 315'. OVER TWO FEET HIGHER THAN THE ESTIMATED 0.2 % (500-YEAR) ESTIMATED BY FEMA FOR THIS LOCATION.

HOMESTEAD HILL EXHIBIT 2 MAY 2023



TEXAS PROFESSIONAL

ENGINEERING

Firm No. 21819

Diego Espinosa

From:

Justin Pinto

Sent:

Wednesday, April 12, 2023 5:13 PM

To:

Diego Espinosa

Subject:

FW: FEMA SFHA ZONE A Information

Attachments:

fema_approx-zone-a-guide.pdf; FEMA 480 COMPLETE.pdf

Diego,

44 CFR 60.3(b)(4) states that in A Zones NFIP communities shall reasonably utilize <u>best available data</u> to determine base flood elevations. (I.e., Overlaying Zone A boundary on topo map, FEMA BLE, study, etc.)

44 CFR 60.3(b)(3) states that in A Zones NFIP communities shall require development greater than 50 lots, or 5 acres have base flood elevation data, does not explicitly state an H&H study

NFIP FEMA 480: NFIP floodplain management requirements manual has various examples stating that if <u>there are no buildable home sites</u>, a detailed engineering analysis may not be required. (example 2)

While the NFIP regulations do not require that communities develop BFE data in approximate Zone A areas when proposed development is below the thresholds in NFIP regulations Subparagraph 60.3(b)(3), there are significant advantages and financial benefits for communities, however in this case where the Zone A boundary does not encompass any proposed buildable homesites, I do not believe it would be just or valuable to require the developer to conduct an H&H study. In addition, FEMA's Base Level Engineering nearest BFE (311.4') further builds the case that all proposed development is reasonably safe from flooding and meets compliance with 44 CFR 60.3(b)(4).

Examples shown below:

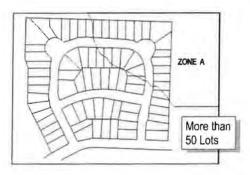
- 44 CFR 60.3(B), (CODE OF FEDERAL REGULATIONS), DISCUSSES APPROXIMATE A ZONES IN DEPTH, EXCERPTS BELOW:
- 44 CFR 60.3(b) When the Administrator has designated areas of special flood hazards (A zones) by the publication of a community's FHBM or FIRM, but has neither produced water surface elevation data nor identified a floodway or coastal high hazard area, the community shall:...
- (3) Require that all new subdivision proposals and other proposed developments (including proposals for manufactured home parks and subdivisions) greater than 50 lots or 5 acres, whichever is the lesser, include within such proposals base flood elevation data
- 4) Obtain, review and reasonably utilize any base flood elevation and floodway data available from a Federal, State, or other source, ...
 - 2. In section 5-14 of NFIP FEMA 480, it is validates the circumstance of open space/no buildable home sites:

In Figure 5-4, the entire approximate Zone A area is to be left as open space. If the planned subdivision shows the floodplain is contained entirely within an open space let, it may not be necessary to conduct a detailed engineering analysis to develop BFE data.



Figure 5-4: Proposed 76-lot subdivision

BFE data are required for the affected lots in the subdivisions shown in Figure 5-2 and Figure 5-3. Figure 5-2 shows a 76-lot subdivision with several lots clearly affected by an approximate Zone A area. The subdivision depicted in Figure 5-3 is only 12 lots, but BFEs are required because the subdivision covers more than five acres and clearly shows buildable sites affected by an approximate Zone A area.



3. In section 5-14 of NFIP FEMA 480, it also states that communities are required to reasonably utilize FEMA preliminary data. Argument for FEMA Base Level Engineering (BLE)

DRAFT REVISED NFIP DATA

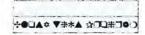
The third situation where a community may vary from the official FEMA data is when FEMA has sent some preliminary data to the community for review. Communities are required to "reasonably utilize" the data from a draft or preliminary FIRM or flood insurance study.

Four scenarios are possible:

NFIP Requirements

5-14

Use the arrow keys to turn pages



 Where the original FIRM shows an A or V Zone with no BFEs. Use the draft information. In the absence of other elevation or floodway data, the draft information is presumed to be the best available.

4. The following FEMA document adds to the case of BLE being accepted in SFHA ZONE A for determining BFE's:

https://www.fema.gov/sites/default/files/documents/fema when-use-ble.pdf

When to use Base Level Engineering

When a community has a FIRM identifying Special Flood Hazard Areas (SFHAs) and the availability of Base Level Engineering data, there are always questions. The table below provides insight to assist communities to apply the Base Level Engineering data based on the flood zones identified on the current FIRM.

Flood Zone on FIRM	The use of Base Level Engineering
Zones B. C. or X	If a FIRM shows a project to be located in an area of low to moderate flood risk, there is no requirement for a community to leverage best available information for permitting review.
	Given the expansive coverage of Base Level Engineering (BLE), additional areas are identified as flood prone, expanding the understanding of potential flood risk across the nation. FEMA encourages communities to reasonably use the draft (BLE) or preliminary information to assist local floodplain management goals.
	BLE data may be used to update FIRMs in the future, adding the floodplain areas identified to the FIRMs. Local use of BLE information provides an opportunity for building with information prior to its incorporation on a FIRM.
Zone A	Local officials are required by minimum NFIP regulations to reasonably utilize draft or preliminary flood insk data AFHI to manage development in Zone A areas. Examples of ways BLE can inform development decisions in Zone A areas include:
	 Use BLE to determine the required minimum elevation of the first floor. HVAC, electric, and plumbing fixtures for new residential construction/ substantial improvements.
	 Use BUE to itentify from my boundaries, which can impact permitting submittal requirements for proposed development projects (proposed projects in the floodway must, at a minimum, demo-strate through hydraulic modeling that they will not result in any increase greater (han 0.00 feet in 1- percent-annual-chance (100-year) water-surface elevations.

5. In learning unit 5 question 9 of FEMA 480, the following question was asked.

9. A developer downstream of Dean Lake wants to build a 40 acre subdivision that crosses Ireland Creek. You need a base flood elevation before you review the plans. What options do you tell the developer he has?

He can conduct a flood study and produce the BFEs at his expense or

He can set the A Zone aside as open space and not conduct a flood study

6. In fact in cases where a costly study cannot be justified, overlaying the boundary on a topo map is allowed by the NFIP to obtain BFE's

Data obtained from one of these other sources should be used as

- Reasonably reflect flooding conditions expected during the b
- · Are not known to be technically incorrect, and
- · Represent the best data available.

Approximate A methods (overlaying FEMA Zone A boundary onto Topo map) can be used in isolated areas where costly studies are not justified

The FEMA publication Managing Floodplain Development in Approximate Zone A Areas: A Guide for Obtaining and Developing Base (100-Year) Flood Elevations provides information on a number of methodologies for developing BFEs in approximate A zones. These methodologies range from detailed methods that produce BFEs and perform floodway analyses similar to those developed for a Flood Insurance Study to simplified methods that can be used in isolated areas where more costly studies cannot be justified.

If your community has approximate A Zones that are likely to be developed, you should get a copy of this document and have your engineer review it. You can also download FEMA's Quick-2 software for computing flood elevations from the FEMA flood hazard mapping website.

For reference I have attached the two documents cited in this email above.

Best Regards.

Justin Pinto, P.E., C.F.M. Project Engineer

jpinto@engineeringtexas.com



Please note our temporary address:

3210 N. Frazier, Suite B Conroe, Texas 77303 Direct: 936.756.7450 Office: 936.756.7101

Cell: 860.538.6479

Hours of operation:

Monday - Thursday: 7:30 am - 5:30 pm

Friday: 8:00 am - 12:00 pm www.engineeringtexas.com

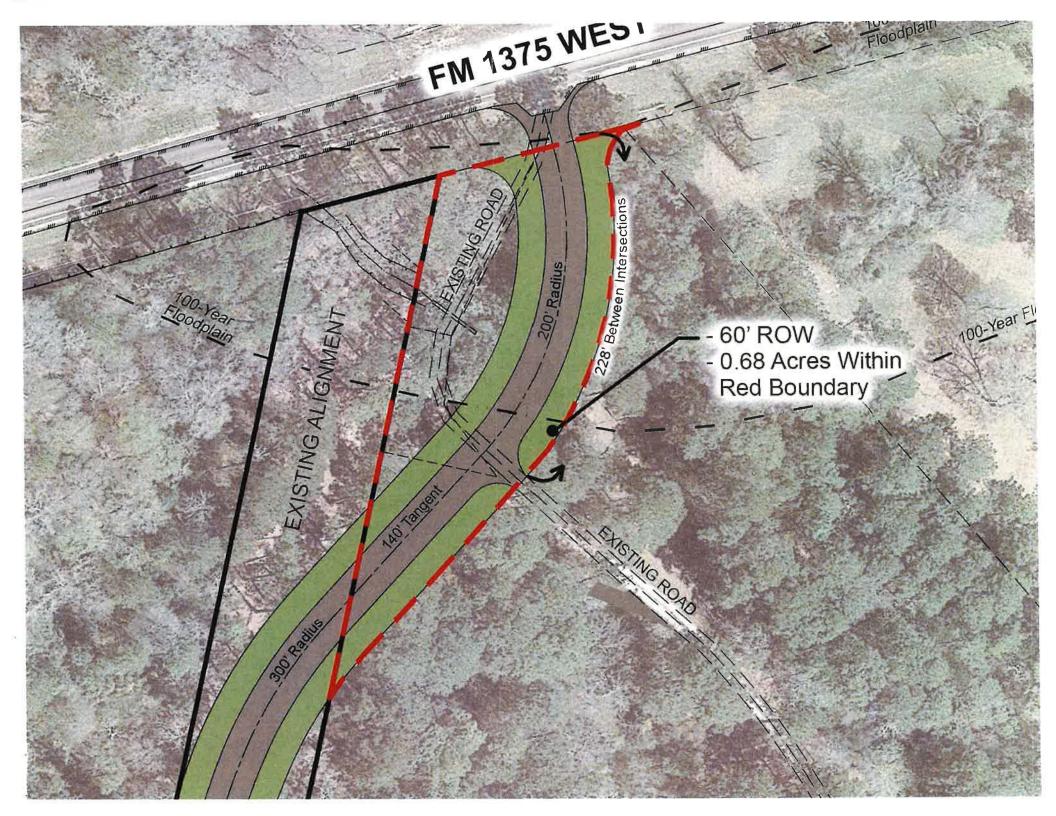
VARIANCE REQUEST TO THE FLOODPLAIN MANAGEMENT REGULATIONS OF WALKER COUNTY, TEXAS

Copy all pages of this form and all attachments for (1) community official, (2) building owner. If any section is not applicable to the proposed development project please mark that section "NA"

SECTIO	N A - PROPERTY INFO	ORMATION		FOR COUN	NTY USE ONLY				
A1. Building/Site Owner's Name West Waverly Ranch, LLC Plat # 2022-035									
A2. Building/Site Street Address				Date of Sub	bmittal:				
West of I-45 and South of Krystyniak Rd. 5-23-202									
City State ZIP Code New Waverly Texas 77358									
	A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Sadler J (A-45), Tract 3, Acres 116.47								
SECT (For projects involving multiple			MAP (FIRM) INFORMA be listed below or include		lditional attachment)				
B1. NFIP Community Name & Community Number B2. County Name B3. State									
Montgomery County / 4	80488 481042	The state of the s	BBY WALKER		Texas				
B4. Map/Panel B5. Suffix	B6. FIRM Index		el Effective/ Revised Date	B8	s. Flood Zone(s)				
48739001906 / 800G & D	124041986	8/01/200	4 8/16/2011	AX.					
THE ABOVE NAMED PERMIT APPLICANT DOES HEREBY MAKES AN APPEAL TO THE COMMISSIONER'S COURT OF WALKER COUNTY FOR A VARIANCE TO THE CONDITIONS OF PERMIT APPROVAL AND/OR CONSTRUCTIONS STANDARDS REQUIRED BY THE WALKER COUNTY FLOOD PLAIN MANAGEMENT REGULATIONS FOR PROPOSED DEVELOPMENT WITHIN AN IDENTIFIED FLOOD HAZARD AREA RELATED TO THE ABOVE REFERENCED DEVELOPMENT PERMIT APPLICATION.									
(If a determination of the base floor submitted and the elevation shown in projects subject to varying or multiple	d elevation has been man c1 below should corre	ade, then a cop spond with the e	levation that appears in :	Base Flood	Elevation Form must be 3 on that form. For large				
C2)This project or	ct is subject to multiple I	Base Flood Elev of determination	ation/project is: ations, the BFE is provid drainage plans, and BF	led in attache	ed plans/submittals as				
SECTION D – VARIANCE(S) RELATED TO ELEVATION REQUIREMENTS AND DRY FLOODPROOFING Applicant requests a variance to the elevation requirements of Sections 5:02(a), 5:02(b), or 5:02(c) (requiring that new or substantially improved structures be elevated a minimum of twelve (12) inches above the base flood elevation authorization is requested to construct the lowest floor of the listed structure(s) at the elevations listed below. (Elevation must be listed in the same datum used for the base flood elevation listed in Section "C" or if no BFE is provided then listed as a distance to the tenth of a foot above lowest natural grade.									
Description	of Structure(s)		Proposed Elevation of I floor including basem		posed Elevation of Flood roofing (Non-Residential Structures Only)				
_{D.1} Proposed Roadway					315.57				
D.2									
D.3									
D.4									

E.1	A Variance is requested to Section(s) 5.03.c of the Walker County Flood Plain Regulations as for A variance is being requested to avoid having to generate base flood
	elevation data for the proposed subdivision.
nce re	SECTION F – APPLICANT'S JUSTIFICATION AND PRESENTATION FACTORS EFFECTING VARIANCE quests to the Walker County Floodplain Regulations need to be included along with the Section(s) of the Regulation to which they
F.1	Is the variance for new construction or substantial improvement of a structure to be erected on a lot of one acre or less in sized contiguous to and surrounded by lots with existing structures constructed below the b flood elevation?
	Yes No
F.2	Please explain the cause or reason the variance is being requested (attach additional pages as "Exhibit F. We do not believe generating the data is necessary since there are no proposed habitable
	structures or existing structures anywhere near that would be affected by this Zone A (undefined) floodplain.
	The proposed roadway will be over five feet higher than the existing County road already crossing this
	same Zone A floodplain. Furthermore the best available data, FEMA BLE viewer does not even show the 100-year floodplain
	actually extending this far west nor impacting our project. The closest base flood elevation the
	BLE viewer shows is a 500-year base flood elevation equal to 312.7 (almost three feet lower than our proposed road).
F.3	Will the failure to grant the variance result in any exceptional hardship to the applicant? Yes No
	If yes please explain below:
	The developer will have to incur the cost of a costly hydraulic model and wil
	continue to delay this project more than it already has.
F.4	Is the variance requested within a regulatory floodway?
	Yes No X
F.5	Will the variance result in increased flood heights, additional threats to public safety, extraordinary public expense, create a nuisance, cause fraud, victimization of the public, or conflict with existing local laws or orders? Yes No Please provide analysis or explanation below or reference attachm
	We are providing a much more significant cross-sectional area for water to trave
	than what is existing. Analysis is also being provided in the civil plans.

	SECTION (All design elevations shall be given in th	H –VARI<i>A</i> e same el	ANCE(S) GRANTED evation datum used for the elevation in section	D1)
H.1 /	A VARIANCE TO THE WALKER COUNTY FL	OOD PLAI	N REGULATIONS IS GRANTED AS FOLLOWS:	
		=		
H.2	THE FOLLOWING CONDITIONS ARE ATTA DEVELOPMENT PERMIT AND ANY REQUI	ACHED TO REMENTS	THE VARIANCE IN ADDITION TO THE REQUIR OF THE FLOOD PLAIN MANAGEMENT REGU	REMENTS OF THE LATIONS:
1				
:				*
	SECTION J - NOTICE, ACI	KNOWLE	DGEMENT, AND CERTIFICATIONS	
		нот	TICE	
STATED OF	N THE DEVELOPMENT PERMIT ANY VAR	riation w Aiton oi	H THE VARIANCES STATED HERE AND OTH WILL RESULT IN IMMEDIATE SUSPENSION OF F THE CONDITIONS OF THIS VARIANCE MAY OR CRIMINAL PENALTIES.	HIS VARIANCE
		WAR	NING	
OF THE BA	VARIANCE FROM THE REQUIREMENT TO FOR THE STRUCTURE WILL INCREASE A SE FLOOD, AND MAY INCREASE AS A RE E BASE FLOOD ELEVATION MAY INCREA ACKNOW! FDGES THAT HE/SHE IS RES) PURCHA AS A RESU SULT OF (ASE THE PONSIBLE	NG STANDARDS AND LOCAL REGULATORY SASE FLOOD INSURANCE. PREMIUMS FOR FL UILT OF CONSTRUCTING THE FIRST FLOOR BIOTHER VARIANCES GRANTED. LOWERING TPOTENTIAL FOR FLOOD DAMAGE AND LOSE TO ENSURE THAT ANY VARIANCE DOES NOTAL, STATE, AND FEDERAL REGULATIONS.	ELOW THE LEVEL HE FIRST FLOOR S OF LIFE: THE
			AIMER	
ARE <u>NOT</u> WHICH A	LIABLE FOR DAMAGES OR LOSS OPERMIT OR VARIANCE IS GRANTED.	F LIFE F	ND ANY OFFICER OR EMPLOYEE OF WARESULTING FROM FLOODING OF THE F	ROPERTY FOR
that my flood am fully awa associated w	insurance costs will increase and flood dama	ge potentia es to my p	to hereby acknowledge that I have reviewed the proper with them and intend to comply fully with them. It is any structure or property subject to this varial property or structure, and that I accept full respondence or structure in the future, that I will give not be a support or structure in the future.	sibility for the risks
Signature of	Owner/Applicant		Date 5/23/23	
Die	go Capenora			
A 64 a w = = = = 5	SECTION I – ACTION ON	QUEST OF	CE BY COMMISSIONER'S COURT variance, the Commissioner's Court of Wal	ker County. Texas
			procedures as outlined in the Walker C	
	t Regulations to		equest for variance.	학 5세점
	er's Court Signature	Printed N		Date
COLIMINSSION	s a Court Oignature	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 	



Estimated Base Flood Elevation (estBFE)



Flood Risk Information Report

Latitude 30.5331, Longitude -95.5024 (Walker County, TX)

FEMA is providing a look at flood data availability and relative Base Level Engineering analysis through the Estimated Base Flood Elevation Viewer (Estimated BFE Viewer). Base Level Engineering uses high resolution ground elevation data, flood flow calculations, and fundamental engineering modeling techniques to define flood extents for streams. The viewer is an effective tool for property owners, community officials, and land developers to identify flood risk, estimated flood elevations, and flood depths for watersheds where Base Level Engineering has been prepared.



*PROPOSED LOWEST TOP OF PAVEMENT ELEVATION OVER THE CREEK IS INTENDED TO BE ABOVE ELEVATION 315'. OVER TWO FEET HIGHER THAN THE ESTIMATED 0.2 % (500-YEAR) ESTIMATED BY FEMA FOR THIS LOCATION.

HOMESTEAD HILL EXHIBIT 2 MAY 2023



TEXAS PROFESSIONAL — ENGINEERING —

Diego Espinosa

From:

Justin Pinto

Sent:

Wednesday, April 12, 2023 5:13 PM

To:

Diego Espinosa

Subject: Attachments: FW: FEMA SFHA ZONE A Information

fema_approx-zone-a-guide.pdf; FEMA 480 COMPLETE.pdf

Diego,

44 CFR 60.3(b)(4) states that in A Zones NFIP communities shall reasonably utilize <u>best available data</u> to determine base flood elevations. (I.e., Overlaying Zone A boundary on topo map, FEMA BLE, study, etc.)

44 CFR 60.3(b)(3) states that in A Zones NFIP communities shall require development greater than 50 lots, or 5 acres have <u>base flood elevation data</u>, does not explicitly state an H&H study

NFIP FEMA 480: NFIP floodplain management requirements manual has various examples stating that if **there are no buildable home sites**, a detailed engineering analysis may not be required. (example 2)

While the NFIP regulations do not require that communities develop BFE data in approximate Zone A areas when proposed development is below the thresholds in NFIP regulations Subparagraph 60.3(b)(3), there are significant advantages and financial benefits for communities, however in this case where the Zone A boundary does not encompass any proposed buildable homesites, I do not believe it would be just or valuable to require the developer to conduct an H&H study. In addition, FEMA's Base Level Engineering nearest BFE (311.4') further builds the case that all proposed development is reasonably safe from flooding and meets compliance with 44 CFR 60.3(b)(4).

Examples shown below:

- 1. 44 CFR 60.3(B), (CODE OF FEDERAL REGULATIONS), DISCUSSES APPROXIMATE A ZONES IN DEPTH, EXCERPTS BELOW:
- 44 CFR 60.3(b) When the Administrator has designated areas of special flood hazards (A zones) by the publication of a community's FHBM or FIRM, but has neither produced water surface elevation data nor identified a floodway or coastal high hazard area, the community shall:...
- (3) Require that all new subdivision proposals and other proposed developments (including proposals for manufactured home parks and subdivisions) greater than 50 lots or 5 acres, whichever is the lesser, include within such proposals base flood elevation data
- 4) Obtain, review and reasonably utilize any base flood elevation and floodway data available from a Federal, State, or other source, ...
 - 2. In section 5-14 of NFIP FEMA 480, it is validates the circumstance of open space/no buildable home sites:

In Figure 5-4, the entire approximate Zone A area is to be left as open space. If the planned subdivision shows the floodplain is contained entirely within an open space lot, it may not be necessary to conduct a denilled engineering analysis to develop BFE data.

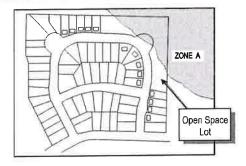
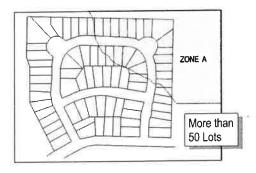


Figure 5-4: Proposed 76-lot subdivision

BFE data are required for the affected lots in the subdivisions shown in Figure 5-2 and Figure 5-3. Figure 5-2 shows a 76-lot subdivision with several lots clearly affected by an approximate Zone A area. The subdivision depicted in Figure 5-3 is only 12 lots, but BFEs are required because the subdivision covers more than five acres and clearly shows buildable sites affected by an approximate Zone A area.



3. In section 5-14 of NFIP FEMA 480, it also states that communities are required to reasonably utilize FEMA preliminary data. Argument for FEMA Base Level Engineering (BLE)

DRAFT REVISED NFIP DATA

The third situation where a community may vary from the official FEMA data is when FEMA has sent some preliminary data to the community for review. Communities are required to "reasonably utilize" the data from a draft or preliminary FIRM or flood insurance study.

Four scenarios are possible:

NFIP Requirements

5-14

Use the arrow keys to turn pages



Where the original FIRM shows an A or V Zone with no BFEs: Use the draft information. In the absence of other elevation or floodway data, the draft information is presumed to be the best available.

4. The following FEMA document adds to the case of BLE being accepted in SFHA ZONE A for determining BFE's:

https://www.fema.gov/sites/default/files/documents/fema when-use-ble.pdf

When to use Base Level Engineering

When a community has a FIRM identifying Special Flood Hazard Areas (SFHAs) and the availability of Base Level Engineering data, there are always questions The table below provides insight to assist communities to apply the Base Level Engineering data based on the flood zones identified on the current FIRM.

Flood Zone on FIRM	The use of Base Level Engineering					
Zones B, C. orX	If a FIRM shows a project to be located in an area of low to moderate flood risk, there is no requirement for a community to leverage best available information for permitting review.					
	Given the expansive coverage of Base Level Engineering (BLE), additional areas are identified as flood prone, expanding the understanding of potential flood risk across the nation. FEMA encourages communities to reasonably use the draft (BLE) or preliminary information to assist local floodplain management goals					
	BLE data may be used to update FIRMs in the future, adding the floodplain areas identified to the FIRMs, Local use of BLE information provides an opportunity for building with information prior to its incorporation on a FIRM.					
Zone A	Local officials are required by minimum NFIP regulations to reasonably utilize draft or preliminary flood risk data AFHI to manage development in Zone A areas. Examples of ways BLE can inform development decisions in Zone A areas include:					
	 Use BLE to determine the required minimum elevation of the first floor, HVAC, electric, and plumbing fixtures for new residential construction/ substantial improvements. 					
	 Use BLE to stentify hoodway boundaries, which can impact permitting submittel requirements for proposed development projects (proposed projects in the floodway must, at a minimum, demonstrate through hydraulic modeling that they will not result in any increase greater than 0.00 feet in 1- percent-annual-chance (100-year) water-surface eterations. 					

5. In learning unit 5 question 9 of FEMA 480, the following question was asked.

9. A developer downstream of Dean Lake wants to build a 40 acre subdivision that crosses Ireland Creek. You need a base flood elevation before you review the plans. What options do you tell the developer he has?

He can conduct a flood study and produce the BFEs at his expense or

He can set the A Zone aside as open space and not conduct a flood study

6. In fact in cases where a costly study cannot be justified, overlaying the boundary on a topo map is allowed by the NFIP to obtain BFE's

ENT TION

Data obtained from one of these other sources should be used as

- Reasonably reflect flooding conditions expected during the boundary onto Topo map)
- ♦ Are not known to be technically incorrect, and
- Represent the best data available.

Approximate A methods (overlaying FEMA Zone A boundary onto Topo map) can be used in isolated areas where costly studies are not justified

The FEMA publication Managing Floodplain Development in Approximate Zone A Areas: A Guide for Obtaining and Developing Base (100-Year) Flood Elevations provides information on a number of methodologies for developing BFEs in approximate A zones. These methodologies range from detailed methods that produce BFEs and perform floodway analyses similar to those developed for a Flood Insurance Study to simplified methods that can be used in isolated areas where more costly studies cannot be justified.

If your community has approximate A Zones that are likely to be developed, you should get a copy of this document and have your engineer review it. You can also download FEMA's Quick-2 software for computing flood elevations from the FEMA flood hazard mapping website.

For reference I have attached the two documents cited in this email above.

Best Regards.

Justin Pinto, P.E., C.F.M. Project Engineer

jpinto@engineeringtexas.com



Please note our temporary address:

3210 N. Frazier, Suite B Conroe, Texas 77303 Direct: 936.756.7450 Office: 936.756.7101

Cell: 860.538.6479

Hours of operation:

Monday – Thursday: 7:30 am - 5:30 pm Friday: 8:00 am – 12:00 pm www.engineeringtexas.com

VARIANCE REQUEST TO THE SUBDIVISION REGULATIONS OF WALKER COUNTY, TEXAS

OF WALKER COUNTY, TEXAS

Copy all pages of this form and all attachments for (1) community official, (2) building owner. If any section is not applicable to the proposed development project please mark that section "NA"

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	P -	022 071
	Date of Subn	nittal:
	5-	24-23
State	ZIP Code	
	28036	
A4. Property Owner's Telepho	ne Number	
mbers, Legal Description, etc.)		
(E)		
ION FOR PROPOSED SURDIVISIO	N TRACT	
nal sheet may be listed below or incl	uded in an a	dditional attachment)
B2 Tay ID Number(s) of Parent Tract		B3. Deed Volume/Page
19247		81091
B5. Is the application for a division of a k	ot in an Existing	Platted
Subdivision? (Yes/No)		
No		
- AN ARREAL TO THE COMMISSIONE	R'S COURT (OF WALKER COUNTY
MENTS OF THE SUBDIVISION REGI	JLATIONS OF	WALKER COUNTY,
- LIST OF ATTACHMENTS		
bmittals included with the variance	request as a	ttachments.
		Exhibit #
i Allachmeni(s)		
Allacriment(s)		
Attachment(s)		1
Attachment(s)		1
ot layout		1 2
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	mbers, Legal Description, etc.) RES ION FOR PROPOSED SUBDIVISION all sheet may be listed below or included by the subdivision of a legal by the subdivision? (Yes/No) No EAN APPEAL TO THE COMMISSIONE MENTS OF THE SUBDIVISION REGIONAL STORES ATTACHMENTS	State State ZIP Code 28036 A4. Property Owner's Telephone Number The state below or included in an act and sheet may be listed below or included in an act and sheet may

	(Ali V	SECTION D —VARIANCE REQUEST 'ariance requests need to include the specific variance along with the Section(s) of the Regulation to which they apply)
		A Variance is requested to Section(s) 4.37, Page 21 of the Subdivision Regulations of Walker County, Texas as follows:
		Variance of performing an Engineering Flood Study of the Zone A Floodplain slightly
		impacting three of the proposed 132 ten-acre lots.
All varia	nce re	SECTION E - APPLICANT'S JUSTIFICATION AND PRESENTATION FACTORS EFFECTING VARIANCE equests to the Walker County Subdivision Regulations need to be included along with the Section(s) of the Regulation to which they apple
	E.1	Is the variance related to the design or construction of improvements to be constructed within the subdivision? Yes x No
		If "Yes" the request should be accompanied by an engineer's opinion and justification for the variance.
	E.2	Please explain the cause or reason the variance is being requested (attach additional pages as "Exhibit E.2"): We do not believe generating the data is necessary since the Zone A floodplain barely impacts three of 132 lots.
		We believe we can apply a conservative approach to achieve the same end goal which is protect future residents from
		possible flooding by creating a no-build easement that extends 300 feet from the floodplain boundary into the
		proposed 10-acre lots. This will not only create a substantial horizontal separation from the floodplain but it will also
		create a great vertical difference from the existing mapped floodplain. Please see attached exhibit.
	E.3	Will the failure to grant the variance requested result in any exceptional hardship to the applicant? Yes X No
		If yes please explain below:
		The developer will have to incur the cost of a costly hydraulic model and will
		continue to delay this project more than it already has.
	E.4	Does the applicant propose any additional conditions, mitigation, or additional requirements not addressed within the Walker County Subdivision Regulations that will or have been met by the applicant as a condition of the variance being granted?
		Yes X No Please list the additional measures below.
		We proposed adding a no-build easement to the lots being affected by the Zone A floodplain. The no build easement will be 300 feet into
		the lots measure from the outside edge of the existing floodplain. This will not only create a significant horizontal
		separation but will also ensure a substantial vertical separation to protect future homes from flooding.

SECTION F -VARIANCE(S) GRANTED					
F.1 A VARIANCE TO THE WALKER COUNTY SUBDIVISION REGULATIONS IS GRANTED AS FOLLOWS:					
F.2 THE FOLLOWING CONDITIONS ARE ATTACHED TO THE VARIANCE:					
SECTION G - NOTICE, AC	KNOWLEDGEMENT, AND CERTIFICATIONS				
	NOTICE				
ALL DEVELOPMENT MUST BE IN STRICT COMPLIANCE WITH THE CONDITIONS STATED HEREIN AND ANY OTHER CONDITIONS STATED WITHIN THE APPLICATION OR DURING THE PRESENTATION TO COMMISSIONERS COURT. ANY VARIATION MAY RESULT IN THE IMMEDIATE SUSPENSION OR CANCELLATION OF THIS VARIANCE. VIOLATION OF THE CONDITIONS OF THIS VARIANCE MAY ALSO RESULT IN THE COMMISIONERS COURT SEEKING INJUNCTIVE RELIEF, CIVIL, OR CRIMINAL PENALTIES.					
WARNING					
THE APPLICANT ACKNOWLEDGES THAT HE/SHE IS RESPONSIBLE TO ENSURE THAT ANY VARIANCE DOES NOT DAMAGE OR THREATEN THE PUBLIC OR ADJACENT PROPERTIES AND COMPLIES WITH LOCAL, STATE, AND FEDERAL REGULATIONS.					
DISCLAIMER					
THE COMMISSIONER'S COURT OF WALKER COUNTY AND ANY OFFICER OR EMPLOYEE OF WALKER COUNTY ARE <u>NOT</u> LIABLE FOR DAMAGES OR LOSS RESULTING FROM THE GRANTING OF THIS VARIANCE. THIS VARIANCE IS GRANTED IN RELIANCE UPON THE STATEMENTS AND EVIDENCE SUPPLIED BY THE APPLICANT AND HIS/HER AGENTS IN THE APPLICATION AND PRESENTATION TO COMMISSIONERS COURT.					
BENJAMIN VANHOOK do hereby acknowledge that I have reviewed the provisions, notices, warnings and disclaimers stated above and that I understand them, agree with them and intend to fully comply with them.					
Signature of Owner/Applicant		Date			
Bet Ve		05/24/23			
SECTION H - ACTION ON VARIANCE BY COMMISSIONER'S COURT					
After careful consideration of the reason(s) for the r					
has determined that it is within the scope of the variance procedures as outlined in the Walker County Subdivision Regulations tothis request for variance.					
Commissioner's Court Signature	Printed Name	Date			
Signature of Owner/Applicant acknowledging conditions	after court action.	Date			
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NOTES TO USERS

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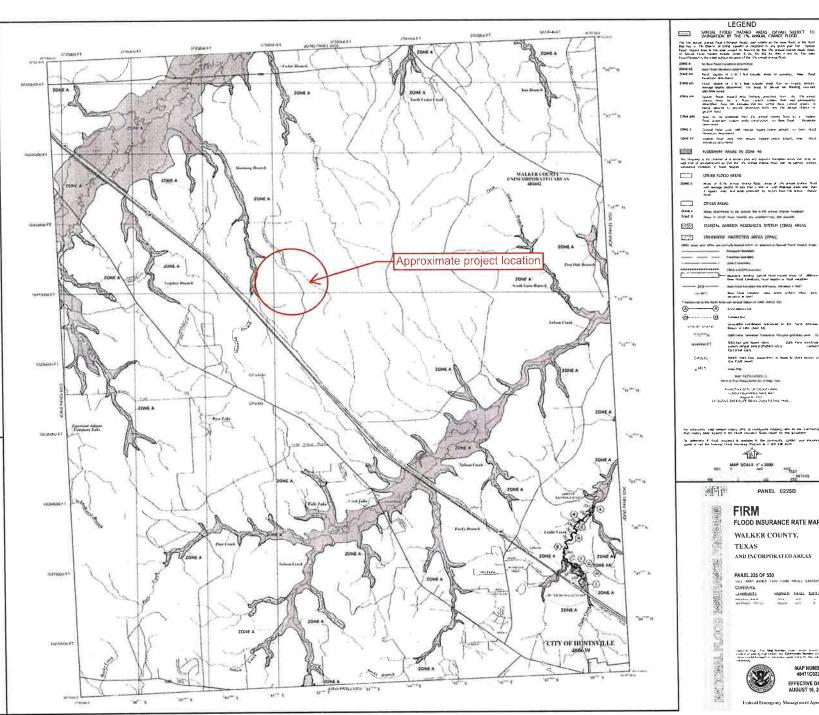
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PANEL 02250

FLOOD INSURANCE RATE MAP

WALKER COUNTY, TEXAS

AND INCORPORATED AREAS

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Lederal Emergency Management Agency

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MAP NUMBER

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AUGUST 16, 2011

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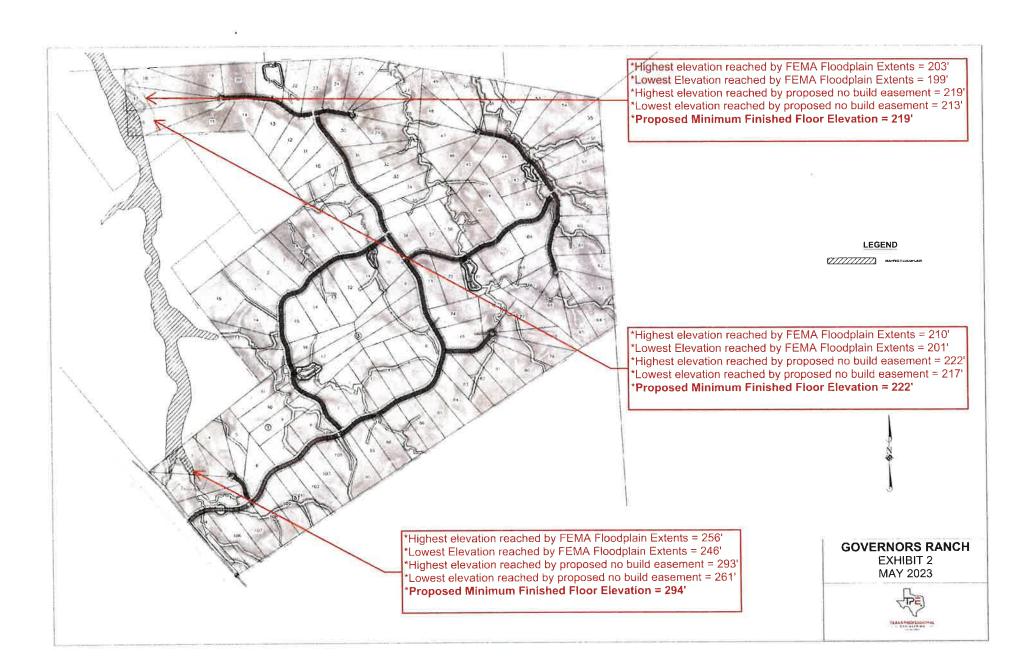
FIRM

PANEL 225 OF 550

CONTAINS

JUNEAU NET 1

FLOOD



VARIANCE REQUEST TO THE FLOODPLAIN MANAGEMENT REGULATIONS OF WALKER COUNTY, TEXAS

REGULATIONS OF WALKER COUNTY, TEXAS

Copy all pages of this form and all attachments for (1) community official, (2) building owner.

If any section is not applicable to the proposed development project please mark that section "NA"

	05071011	A DDODEDTY INFO	DMATION		FOR COLL	NTY USE ONLY
Permit Number:						mber:
A1. Building/Site Owner ATLAS LAND PART				Plat	2022-041	
A2. Building/Site Street					Date of Su	ubmittal:
East of I-45, South	of Cedar	Ridge				5-24-23
City Huntsville Texas			State		ZIP Code 320	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) MILLS S A (A-408), TRACT 1, 1434.39 - ACRES						
SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION (For projects involving multiple map panels an additional sheet may be listed below or included in an additional attachment)						
B1. NFIP Community Na			B2. County Name B3. State			
			Walker	bz. Oddrity (valid)		
Walker County				Traine.		
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date		el Effective/ Revised Date	١.	8. Flood Zone(s)
48471C0225D / 225	D	08/16/2011	08/16/2	011		1
THE ABOVE NAMED PERMIT APPLICANT DOES HEREBY MAKES AN APPEAL TO THE COMMISSIONER'S COURT OF WALKER COUNTY FOR A VARIANCE TO THE CONDITIONS OF PERMIT APPROVAL AND/OR CONSTRUCTIONS STANDARDS REQUIRED BY THE WALKER COUNTY FLOOD PLAIN MANAGEMENT REGULATIONS FOR PROPOSED DEVELOPMENT WITHIN AN IDENTIFIED FLOOD HAZARD AREA RELATED TO THE ABOVE REFERENCED DEVELOPMENT PERMIT APPLICATION.						
SECTION C – BASE FLOOD ELEVATION UTILIZED IN DESIGN (If a determination of the base flood elevation has been made, then a copy of a <i>Determination of Base Flood Elevation Form</i> must be submitted and the elevation shown in C1 below should correspond with the elevation that appears in subsection E3 on that form. For large projects subject to varying or multiple flood heights please place an "X" in the box adjacent to D2)						
C1) The Base Flood Elevation for the proposed location/project is: ft mean sea level. C2) This project is subject to multiple Base Flood Elevations, the BFE is provided in attached plans/submittals as project overlay, detailed method of determination, drainage plans, and BFE impact summary. C3) X No Base Flood Elevation has been determined for this property						
SECTION D – VARIANCE(S) RELATED TO ELEVATION REQUIREMENTS AND DRY FLOODPROOFING Applicant requests a variance to the elevation requirements of Sections 5:02(a), 5:02(b), or 5:02(c) (requiring that new or substantially improved structures be elevated a minimum of twelve (12) inches above the base flood elevation authorization is requested to construct the lowest floor of the listed structure(s) at the elevations listed below. (Elevation must be listed in the same datum used for the base flood elevation listed in Section "C" or if no BFE is provided then listed as a distance to the tenth of a foot above lowest natural grade.						
	Description of	Structure(s)		Proposed Elevation of I floor including basem		oposed Elevation of Flood Proofing (Non-Residential Structures Only)
D.1 No proposed structures. Varies (see attached)						
D.2						
D.3						
D.4						

(All V	SECTION E – OTHER VARIANCE ariance requests need to include the specific variance along with the Section(s) of the Regulation to which they apply)				
E.1	A Variance is requested to Section(s) 5.03.c of the Walker County Flood Plain Regulations as follows: A variance is being requested to avoid having to generate base flood				
	elevation data for the portion of the Zone A floodplain that barely impacts				
	three of the 132 ten-acre lots.				
nce re	SECTION F – APPLICANT'S JUSTIFICATION AND PRESENTATION FACTORS EFFECTING VARIANCE quests to the Walker County Floodplain Regulations need to be included along with the Section(s) of the Regulation to which they apply)				
F.1	Is the variance for new construction or substantial improvement of a structure to be erected on a lot of one-half acre or less in sized contiguous to and surrounded by lots with existing structures constructed below the base flood elevation?				
	YesNo X				
F.2	Please explain the cause or reason the variance is being requested (attach additional pages as "Exhibit F.2"): We do not believe generating the data is necessary since the Zone A floodplain barely impacts three of 132 lots.				
	We believe we can apply a conservative approach to achieve the same end goal which is protect future residents from				
	possible flooding by creating a no-build easement that extends 300 feet from the floodplain boundary into the				
	proposed 10-acre lots. This will not only create a substantial horizontal separation from the floodplain but it will also				
	create a great vertical difference from the existing mapped floodplain. Please see attached exhibit.				
F.3	Will the failure to grant the variance result in any exceptional hardship to the applicant?				
	Yes X No				
	If yes please explain below:				
F.4	If yes please explain below: The developer will have to incur the cost of a costly hydraulic model and will continue to delay this project more than it already has. Is the variance requested within a regulatory floodway?				
	If yes please explain below: The developer will have to incur the cost of a costly hydraulic model and will continue to delay this project more than it already has. Is the variance requested within a regulatory floodway? Yes No X				
	If yes please explain below: The developer will have to incur the cost of a costly hydraulic model and will continue to delay this project more than it already has. Is the variance requested within a regulatory floodway? Yes No Will the variance result in increased flood heights, additional threats to public safety, extraordinary public expense, create a nuisance, cause fraud, victimization of the public, or conflict with existing local laws or court externs?				
	If yes please explain below: The developer will have to incur the cost of a costly hydraulic model and will continue to delay this project more than it already has. Is the variance requested within a regulatory floodway? Yes No Will the variance result in increased flood heights, additional threats to public safety, extraordinary public expense, create a nuisance, cause fraud, victimization of the public, or conflict with existing local laws or court				

SECTION H -VARIANCE(S) GRANTED (All design elevations shall be given in the same elevation datum used for the elevation in section D1)					
H_1 /	A VARIANCE TO THE WALKER COUNTY FL	OOD PLA	IN REGULATIONS IS GRANTED AS FOLLOWS:		
H.2			THE VARIANCE IN ADDITION TO THE REQUING OF THE FLOOD PLAIN MANAGEMENT REGU		
	SECTION J - NOTICE, AC	KNOWLE	DGEMENT, AND CERTIFICATIONS		
		NOT		IED CONDITIONS	
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DISCLAIMER					
THE COMMISSIONER'S COURT OF WALKER COUNTY AND ANY OFFICER OR EMPLOYEE OF WALKER COUNTY ARE NOT LIABLE FOR DAMAGES OR LOSS OF LIFE RESULTING FROM FLOODING OF THE PROPERTY FOR WHICH A PERMIT OR VARIANCE IS GRANTED.					
I, BENJAMIN VANHOOK I, do hereby acknowledge that I have reviewed the provisions, warnings, notices, and disclaimers stated above and that I understand them agree with them and intend to comply fully with them. I also acknowledge that my flood insurance costs will increase and flood damage potential to any structure or property subject to this variance will increase. I am fully aware that Walker County is not liable for damages to my property or structure, and that I accept full responsibility for the risks associated with this variance. I also certify that in the event I sell this property or structure in the future, that I will give notice of the variance to the purchaser prior to sale.					
Signature of Owner/Applicant Date					
Bu	Bill 05/24/2023				
SECTION I – ACTION ON VARIANCE BY COMMISSIONER'S COURT					
After careful consideration of the reasons for the request of variance, the Commissioner's Court of Walker County, Texas has determined that it is within the scope of the variance procedures as outlined in the Walker County Flood Plain					
Management Regulations to this request for variance.					
Commissioner's Court Signature Prin			ame	Date	

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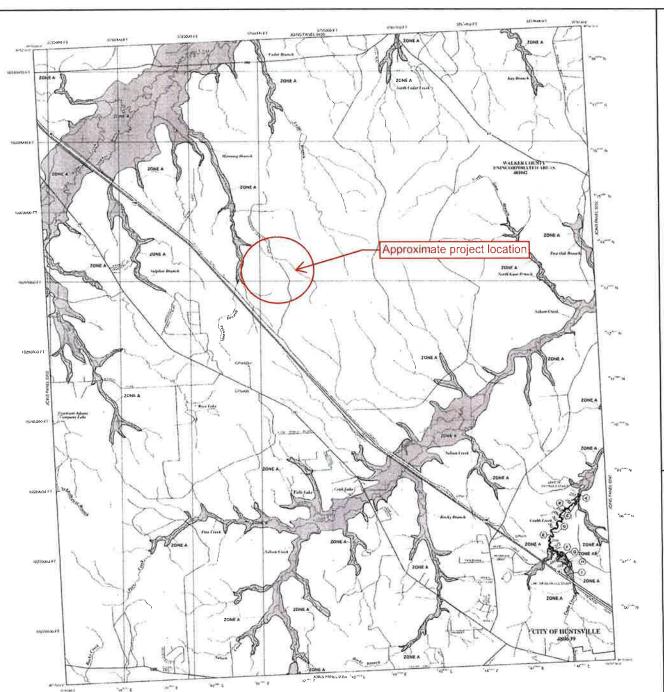
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PANEL 0225D

FIRM FLOOD INSURANCE RATE MAP

WALKER COUNTY, TEXAS

AND INCORPORATED AREAS

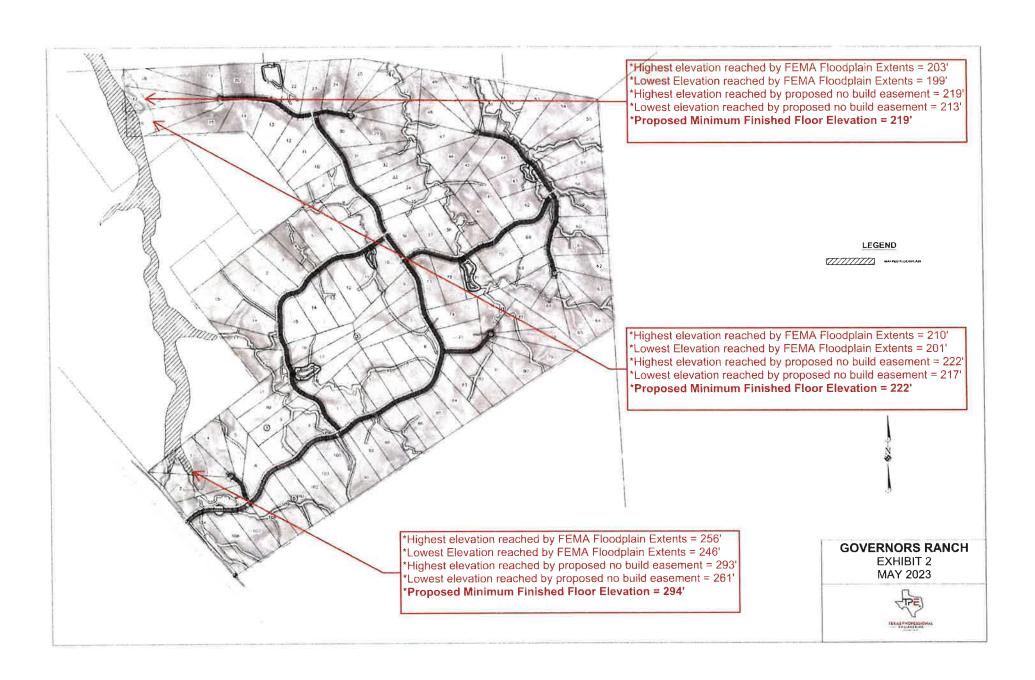
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48471C0225D EFFECTIVE DATE AUGUST 16, 2011

Federal Emergency Management Agency





To the Commissioner's Court of Walker (Date 5/16/23
Application is hereby made by	Frontier Internet
to place 1.25" duct and two (2) 6-pair	copper drops
and/or perform the following described	ork Bore from a pedestal located at 12052 Four
Notch Rd. approximately 600' west to a	edestal located near 12067 Four Notch Rd., crossing
에 가는 사람이 가장되었다. 그렇게 되어 있는 바다 바로 가장 하는 것이 되었다면 하는데 그렇게 되었다면 하는데 그렇게 되었다면 다른데 그렇게 되었다면 그렇게 그렇게 그렇게 되었다면 그렇게	Way of that Walker County road known as

5/16/23

at the following approximate coordinates (lat/long)

30.608038009776344, -95.37347261025103 The exact location and extent of the proposed work shall be as shown on the attached specifications and drawings.

We will construct and maintain the line on the road right of way as shown on the attached drawing and in accordance with the rules, regulations and policies of Walker County, the Texas Department of Transportation (TXDOT), and all governing laws, including, but not limited to, the "Texas Engineering Practice Act," "Federal Clean Water Act," the "National Endangered Species Act," "Americans with Disabilities Act," and the "Federal Historic Preservation Act." Upon request by Walker County, we will submit to Walker County proof of compliance with all governing laws, rules and regulations before commencement of construction. Plans shall include the design, proposed location, vertical elevations, and horizontal alignments of the facility based on the department's survey datum, the relationship to existing highway facilities and the right of way line, traffic safety and access procedures, and location of existing utilities that may be affected by the proposed utility facility. The location and description of the proposed line and appurtenances is more fully shown by a complete set of drawings attached to this Utility Installation Request. We will give plans to Walker County for each future proposed modification or expansion to our facility and all Walker County to review and approve submittals prior to commencement of the work.

A new request may be required as a condition of approval.

Four Notch Rd.

Our organization will use Best Management Practices to minimize erosion and sedimentation resulting from the proposed installation, and we will re-vegetate the project area as indicated under "Re-vegetation Special Provisions."

Our organization will ensure that traffic control measures complying with applicable portions of the Texas Manual on Uniform Traffic Control Devices will be installed and maintained for the duration of this installation.

When installing our utility on controlled access facilities, we shall conform to the Texas Transportation Code, Title 6 Roadways, Chapter 203, Subchapter C. Control of Access, §203.031. We shall limit access for servicing this installation to access via (a) frontage roads where provided, (b) nearby or adjacent public roads or streets, (c) trails along or near the highway right of way lines, connecting only to an intersecting road; from any one or all of which entry may be made to the outer portion of the highway right of way for normal service and maintenance operations. Our rights of access to the through traffic roadways and ramps shall be subject to the same rules and regulations that apply to the general public.

It is expressly understood that Walker County does not purport, hereby, to grant any right, claim, title or easement in or upon this road; and it is further understood that Walker County may require us to relocate this line and any associated infrastructure, at the total expense of the applicant/utility owner, by giving thirty (30) days written notice prior to the date that the relocation shall be completed. We understand that a new Request will be required for the relocation.

We will notify Walker County prior to commencement of any routine or periodic maintenance which requires pruning of trees within the highway right of way, so that Walker County may provide specifications for the extent and methods to govern in, but not limited to, trimming, topping, tree balance, type of cuts, painting cuts and clean up.

Our installation shall not damage any part of the roadway structure or associated appurtenances and we will make adequate provisions to minimize inconveniences to the traveling public, and adjacent property owners. In the event we fail to comply with any or all of the requirements as set forth herein, the County may take such action as it deems appropriate to compel our compliance.

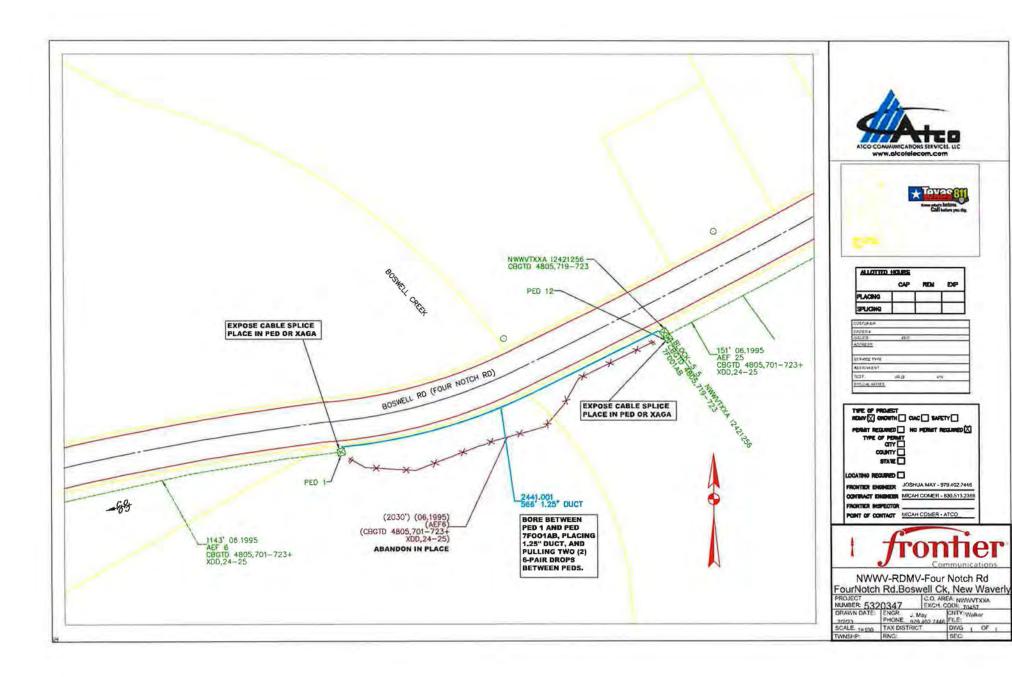
Additional Provisions and Requirements (for TxDOT input only)

Following approval, we will begin construction on or after

July 1, 2023

(month/day/yr)

General Special Provisions:				
☑ Are attached.☐ Are not attached				
As-built Plans/Certifications of Construction: □Are required and shall be certified as accurate l ⊠Are required and shall be signed and sealed by ⊠Certification that utility was installed as appro- □Are not required	a State of Texas Licensed Professional Engineer.			
Re-vegetation Special Provisions: In order to minimize crosion and sedimentation resulting from the proposed installation, the project area will be re-vegetated: Sin accordance with TxDOT's Standard Specification Item 164 which specifies the appropriate grass seed mix to be used, or: Das indicated on the attachment.				
The Precinct Commissioner or his/her representative is to	be notified 48 hours prior to beginning construction.			
If approved, we understand that we will assume all risks right of way. These risks include, but are not limited to, that may be in the area, injuries or damage resulting froshown on plans. We understand Walker County may place additional provi	injuries to our workers, damage to contiguous utility lines om our failure to properly install and maintain the line as sions and requirements as listed above, based upon, but not			
limited to, the type of utility being installed, local site cond	ditions, soil types and traffic.			
We acknowledge that this Utility Installation Request ap issuance, unless otherwise approved, if we do not beginstallation within this time frame and still wish to conti prevailing governing laws, rules, regulations and policies a	in our installation by this date. If we do not begin our nue, we will resubmit our request in accordance with the			
By signing as/for the requestor below, I certify that I am provisions and requirements included in this Utility Installa further attest to our review and acceptance of said addition	ation Request, and our commencement of construction will			
Requestor:	Approved By:			
Date: 5-16-2023	Date:			
Date: 5-16-2023 By: Josiffun Many	Ву:			
Signature:	Signature:			
Title: OBLIG ENGINEER WANTAGET	Title:			
Address: 301 INDUSTRIAL BLUD.	Address:			
BMM TO 77803				
Telephone: 979 4027444	Telephone			



ATCO COMMUNICATIONS SERVICES, LLC AS THE DESIGNER OF THIS TRAFFIC CONTROL PLAN,
MAKES NO REPRESENTATION AS TO ITS' GENERAL ADEQUACY OR BEING APPROVED FOR IMPLEMENTATION,
APPROVAL MUST RESUL I FROM I HE TRAFFIC ENGINEER OR OI HER PUBLIC OFFICIAL HAVING STATUTORY
ENFORCEMENT AUTHORITY IN THE JURISDICTION, UTILIZATION AND IMPLEMENTATION OF THIS PLAN
SHALL BE A RESULT OF THE APPROVAL, REF. MUTCD 2009 6A - 01 (10)





FRONTIER/DONE/53170314Jn/liter/ png

2201 l Avenue, Plano, TX 75074

ROJECT NUMBER

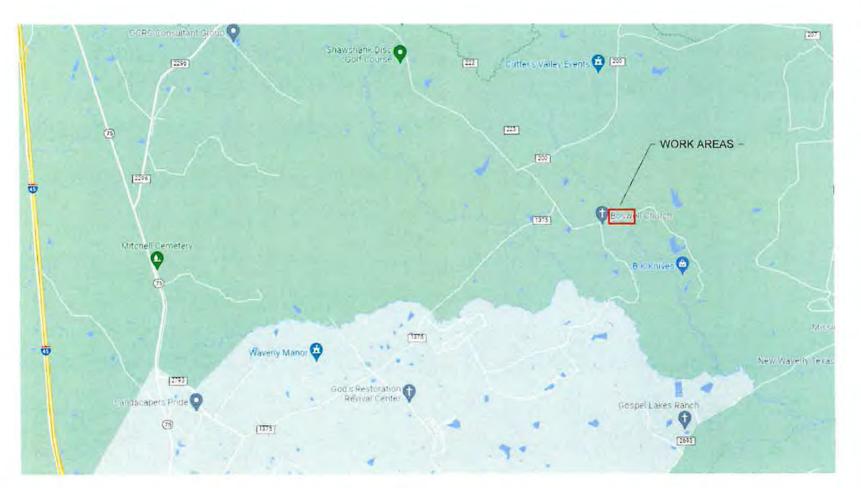
ROJECT ADDRESSE, DUR NOTCH RD & BOSWELL CREEN NEW WAVERLY TX

OCATION

TRAFFIC CONTROL PLAN

ILE NAME: 83283347 - FOLINGEN RG - EGY, SHIL CRIBK NEW WAVERLY TV TCP-day

DATE	10.20.2022
DESIGNED BY:	M. COMER
ATCO CONTACT:	830 329.1982
michael.comer@	atcotelecom co



VICINITY MAP



ATCO COMMUNICATIONS SERVICES LLC AS THE DESIGNER OF THIS TRAFFIC CONTRUL PLAN, MAKES NO REPRESENTATION AS TO ITS GENERAL ADEQUACY OR BEING APPROVED FOR IMPLEMENTATION APPROVAL MUST RESULT FROM THE TRAFFIC ENGINEER OR OTHER PUBLIC OFFICIAL HAVING STATUTORY ENFORCEMENT AUTHORITY IN THE JURISDICTION, UTILIZATION AND IMPLEMENTATION OF THIS PLAN SHALL BE A RESULT OF THE APPROVAL. REF. MUTCD 2009 6A - 01 (10)

SIGN LEGEND

W20-1

W20-4

W20-7B

PHASE 1

W20-7A







2201 | Avenue, Plano, TX 75074

NEW STAYERLY, LL PROJECT ADDRESS PROJECT NUMBER J OV

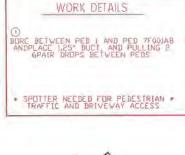
DATE DESIGNED BY

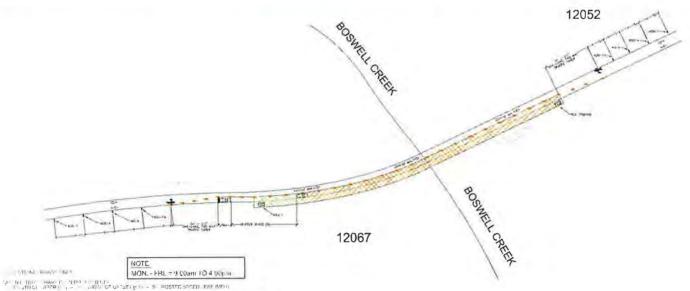
Snohomish, WA 98290

10 20 2022

ATCO CONTACT:

SHEET:





isted Seed	Formula	Destrable Taper Lengths		Suggested Maximum Specing of Channellizing Devices		Minimum Sign Specing	Suggested Longitudinal Buffer Space	Stooping Sight Distance	
*		Offset	orrset	orreet	On a Toper	Tangent	Distance	.8.	
30	L . WS2	150"	165"	180	30.	60'	120"	90*	200
35		205'	225'	2451	35'	70'	160	120"	250"
40		2651	295"	3201	40'	80*	240"	155*	305
45		450"	495	540"	45"	90'	350.	195*	360"
50		500"	550"	6001	50'	100	400	240	425
55	L-WS	550"	605"	660'	55"	110'	500	2951	495
60	r.M2	600	660	720'	601	120'	600	350'	570"
65		650'	715	780'	65*	130	700'	410	645"
70	1	700	770"	8401	701	140'	8001	475	730
75		750	B25'	900	75"	150"	900"	540'	820.

FEDERAL, STATE, AND LOCAL PERMITTING CERTIFICATION

I, the below signed owner/developer, environmental consultant, or professional engineer, have reviewed all of the infrastructure, improvements, fill, and development activity associated with the below described development as constructed or planned and do hereby certify that NO Department of Army Section 10 or Section 404, U.S. Fish and Wildlife, Texas Commission on Environmental Quality, Texas Water Development Board, or other Federal, State or local permits or approvals were or will be required for this site in relation to said development aside from those listed below and those issued by Walker County, Texas under its local orders. If any permit has been required or issued I further certify that the conditions of that permit have been fully satisfied and that no obligations under any permit remains. I take full responsibility for this review I understand that this statement is being relied upon by a government entity in its decision making authority and represents a government document, and any falsification of this document is subject to penalties of law.

Project Description:

Bore from a pedestal located near 12052 Four Notch Rd approximately 600' west to a pedestal located near 12067 Four Notch Road, crossing Boswell Creek.

Permits required/issued (if none mark "None"):

None

Signature

Printed Name of Signatory:

Company or Firm Information / Additional Certifiers Signatures (if applicable):

May

Frontier Communications

2201 | Ave.

Plano, TX 75047

Date of certification:

2-10-2023

General Special Provisions Walker County Utility Installation Request

- Effective Period of Permit Approval. All approvals are void if installation does not begin within 3 months from the date of approval.
- ALL UTILITY INSTALLATIONS SHALL CONFORM WITH THE STANDARDS DESCRIBED IN TITLE 43, PART 1, CHAPTER 21, SUBCHAPTER C, OF THE TEXAS ADMINISTRATIVE CODE (UTILITY ACCOMODATIONS)
- 3. A FINAL AS-BUILT SET OF PLANS SHALL BE SUBMITTED AND CERTIFIED BY A PROFESSIONAL ENGINEER, INCLUDING A CERTIFICATION THAT THE INSTALLATION WAS COMPLETED IN CONFORMANCE AND COMPLIANCE WITH THE ABOVE DESCRIBED SECTIONS OF THE TEXAS ADMINISTRATIVE CODE AND TEXAS DEPARTMENT OF TRANSPORTATION MINIMUM SPECIFICATIONS. A statement must be included certifying that any pipe/casing installed is properly designed for the application and the installation meets the minimum standards for TxDOT and Title 43 of the Texas Administrative Code.
- 4. Minimum Depth of Cover. The minimum depth of cover for any underground utility line shall be as shown on the "Minimum Depth of Cover Table" for the TXDOT District or attached schematic whichever is deeper
- Locating Utilities. Applicant shall take all reasonable and necessary steps to locate existing utilities and address them in accordance with all state, local, and or federal requirements.
- 6. <u>Aerial Electric Lines.</u> Aerial electric power lines crossing over the highway shall be installed and maintained a minimum of twenty-two (22) feet above the surface of the traffic lanes. For electric power lines with greater than 50,000 volts, the clearance shall be increased in accordance with National Electric Safety Code as published in the National Bureau of Standards, Handbook 30.
- Aerial Communication Lines. Aerial communication lines crossing over the highway shall be installed and maintained a minimum of eighteen (18) feet above the surface of the traffic lanes.
- 8. Open Trenching or Boring Operations for Utility Work. To insure that disturbed areas are restored and revegetated properly and in a reasonable period as the utility work progresses, the following requirements shall apply:

Unless otherwise approved or directed by Walker County, the length of "active utility work" shall not exceed one mile in length. "Active utility work" shall be defined as the total disturbed area measured from the beginning of open trenching to the point where backfill has been compacted, the right of way has been restored to its original line and grade, any structures damaged by the utility work have been repaired, erosion control measures have been placed and are being properly maintained, approved topsoil seed and compost has been placed uniformly, and watering for revegetation has begun. "Active utility work" also includes areas of bore pits and receiving pits; however, it does not include the underground boring length. When any area of "active utility work" is substantially complete (i.e., watering of seeded areas has begun), that area is no longer considered to be "active utility work", and "active utility work" can proceed further within the right of way as long as it does not exceed the above appropriate limits. Areas where Walker County determines that the "active utility work" is substantially complete does not mean that Walker County considers that area totally acceptable and complete.

 Backfill, Erosion Control, and Re-vegetation. All excavations within the right-of-way (ROW) and not under pavement shall be backfilled by tamping in six (6) inch horizontal layers to the density of the surrounding

1 | Page

Initial of Applicant

General Special Provisions Walker County Utility Installation Request

soil or as directed by the Walker County. All surplus material shall be removed and the ROW shall be reshaped to its original condition or better. This work shall be done in accordance with Item 164 of the Texas Department of Transportation (TxDOT) "Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges." Erosion control measures such as soil retention blankets, rock berms, and silt fences shall be installed and maintained until permanent perennial vegetation is established over 70% of the disturbed area. The amount of revegetation is considered acceptable when it resembles the amount of existing vegetation in the surrounding undisturbed area. If erosion control and/or storm water run-off requirements of other State, Federal, or Local Jurisdictions exceed these requirements then the more stringent requirements would prevail.

- 8. Boring and Jacking. Boring and jacking of utility lines shall be provided as specified below.
 - a. <u>Under Paved County Roads</u> Utility lines to be constructed under an existing paved (asphalt pavement or concrete pavement) county road shall be installed by boring and jacking with casing.
 - b. <u>Under Paved Driveways</u>. Utility lines to be constructed under existing paved (asphalt pavement or concrete pavement) driveways shall be installed by boring and jacking methods, unless the utility company furnishes Walker County with a "Letter of No Objection" signed by the driveway owner to allow open cutting of their driveway.
 - c. <u>Under Unpaved County Roads or Driveways</u>. Utility lines to be constructed under an existing unpaved county road or under existing unpaved driveways may be open cut only when approved in advance by Walker County, and after the driveway owner is notified. Any open cuts should be repaired and restored to a minimum of pre-cut conditions as quickly as possible so as not to impact road and/or driveway traffic. Applicant shall take all necessary precautions to insure safety as site of open cut.
 - d. Under Desirable Trees. To preserve the natural environment and protect wildlife habitat, boring may be required when underground utility lines are to be placed within the "protected root area" of "desirable trees" located within road ROW or on adjacent property. The "protected root area" is defined as the area between the tree trunk and five (5) feet from the tree trunk or 2/3 the actual distance from the tree trunk to the dripline, whichever is greater. "Desirable trees" include (but are not limited to) any tree with a trunk diameter of six (6) inches or more that Walker County or the Owner of the tree determines to be of environmental and aesthetic value. Boring under all "desirable trees" will be required with the following exceptions: (1) in areas where planned highway construction/maintenance work would require tree removal, or (2) when the Walker County approves of open trenching for the utility installation or removal of the tree.
- 9. Manhole Covers. All manhole covers shall be installed flush with the ground surface.
- 10. Traffic Control. Traffic control in utility work zones shall conform to applicable requirements of the "Texas Manual on Uniform Traffic Control Devices for Streets and Highways, Part VI". Adequate signs, barricades, flag personnel, etc. shall be erected and maintained in complete compliance with the Texas Manual on Uniform Traffic Control Devices. Any travel lane closures are only permitted after a traffic control plan is approved by Walker County prior to beginning any construction activities.
- Sunday or Holiday Work. Sunday or Holiday work will not be permitted for the installation of any utility line unless directed or approved by Walker County.

2 | Page

Initial of Applicant

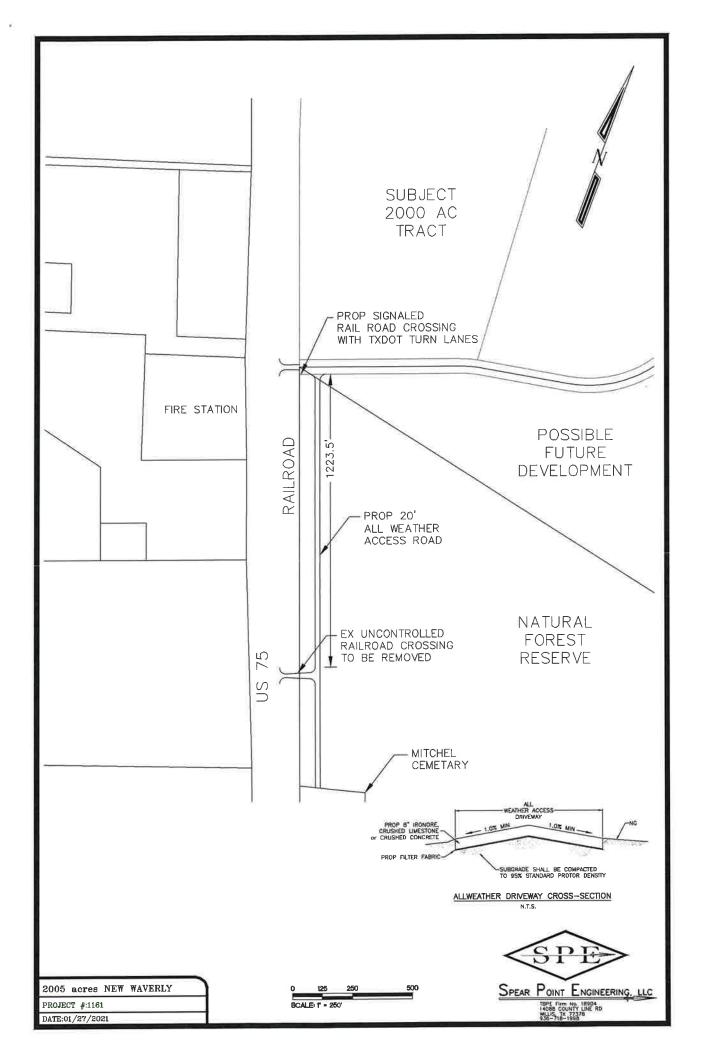
General Special Provisions Walker County Utility Installation Request

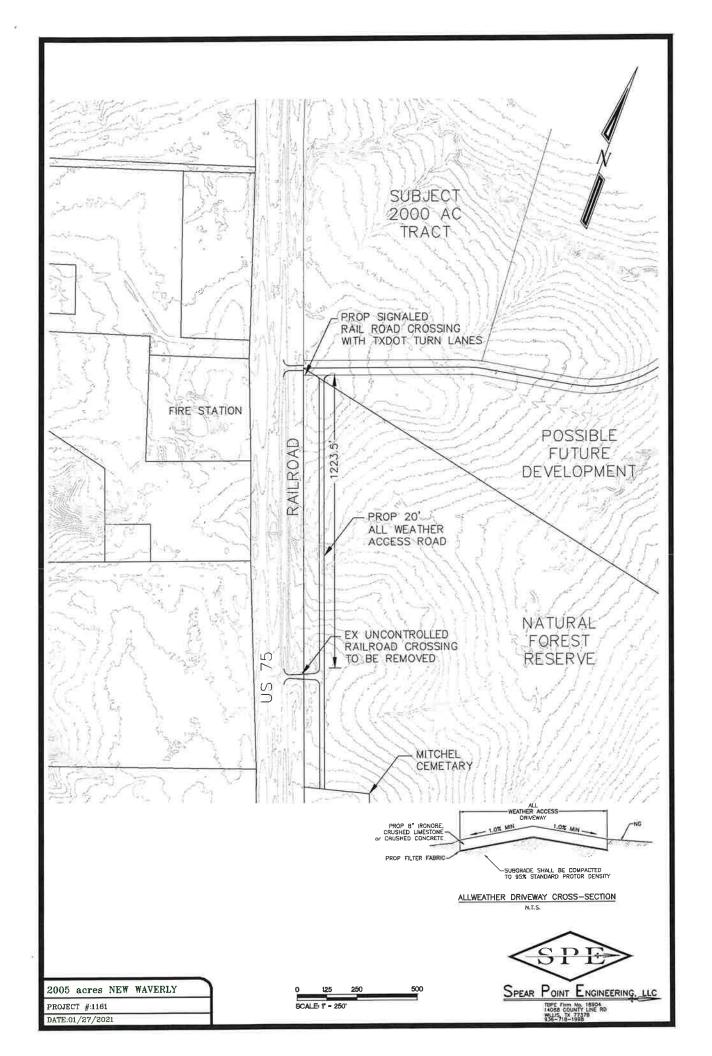
- 12. The approval of this utility installation request shall in no way be taken as a waiver or variance to any other existing local, state, or federal permits or requirements that may be required by the applicant.
- 13. Please note that Walker County will be making no verification through this process of the actual location of the public right of way as to width or location. The responsibility to locate the bounds of any public right of way that your project will utilize is the responsibility of your company. Walker County's approval of the request is not an agreement as to location of the public right of way, nor does it confer any easement, right of way, or property right for the project area.
- 14. Protection of Trees and Landscaping. Existing trees and landscaping within the ROW shall be protected as specified below. Removal of trees from the ROW will require prior Walker County approval.
 - a. <u>Tree Pruning.</u> All tree pruning within the ROW will require prior TxDOT approval. All oak trees that are damaged or pruned shall be treated with an approved tree wound dressing within 20 minutes of causing the damage or making the pruning cut.
 - b. <u>Landscaping.</u> When existing landscaping is located near the proposed utility alignment, the utility contractor shall notify Walker County and the owner of the landscaping prior to the proposed utility installation. Walker County may require underground utilities to be installed by: (1) boring under such landscaping or (2) by replacement of specific landscape items. Landscaping is defined as, but not limited to, trees, shrubs, grass, irrigation lines, landscape pavers, sidewalks, and other ROW improvements.

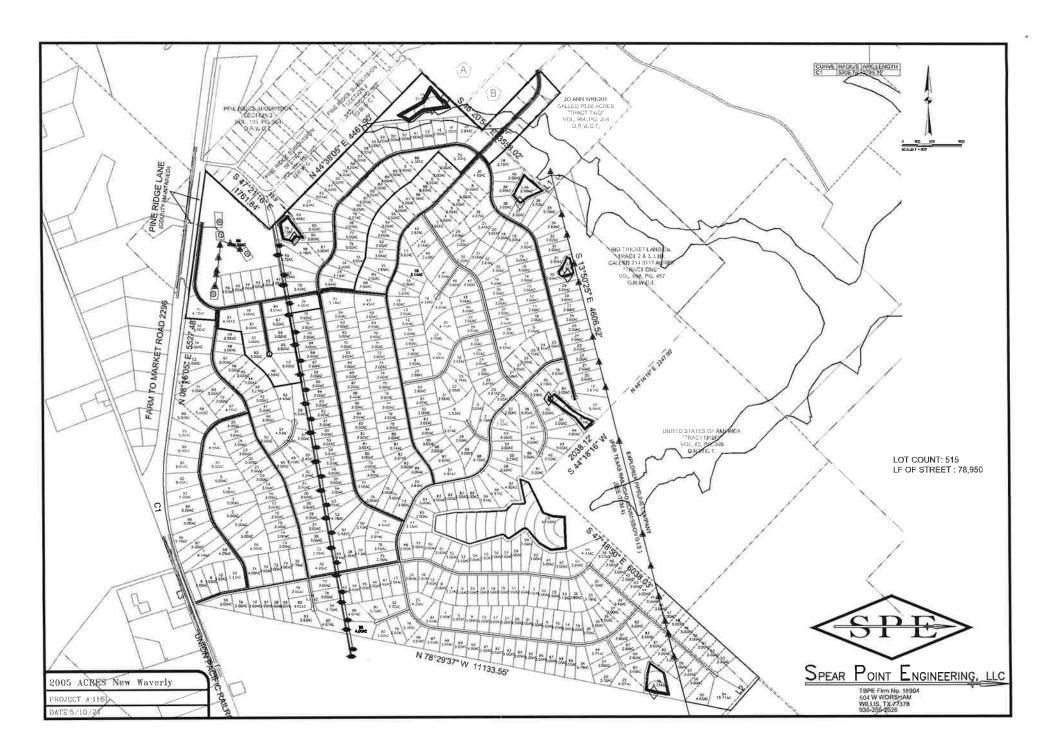
3 | Page

Initial of Applicant









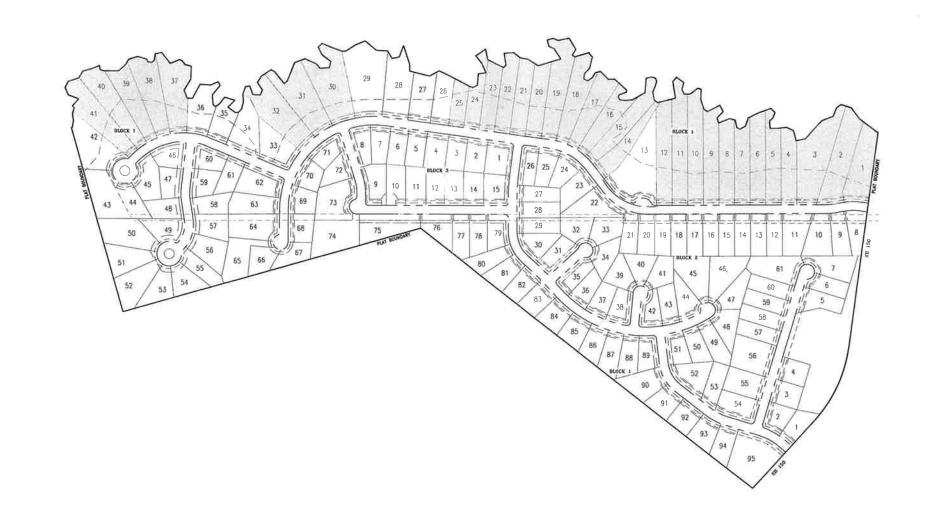
VARIANCE REQUEST TO THE SUBDIVISION REGULATIONS OF WALKER COUNTY, TEXAS

Copy all pages of this form and all attachments for (1) community official, (2) building owner. If any section is not applicable to the proposed development project please mark that section "NA"

SECTION A - PROPERTY INFO		Y USE ONLY				
A1. Property Owner's Name	Application Number:					
WAVERLY MANORS AT HIGH MEADOW DELOPMEN	P-2023-010					
A2. Property Owner's Street Address	Date of Subm	te of Submittal:				
			2-24-23			
City State						
MAGNOLIA TX	1AGNOLIA TX 77		7355			
A3. Property Owner's Email Address	A4. Property Owner's Telephor	ne Number				
A5. Property Description of Parent Tract (Lot and Block Nu	mbers, Legal Description, etc.)					
BEING a 287.71 acre tract of land in the Jose De La G called 160.31 acre tract of land as recorded in County land as recorded in County Clerk's File No. 58612, and recorded in Volume 431, Page 221 of the County Deed a Title Survey dated May 2, 2022, G.F. 22471030018,	Clerk's File No. 58613, and being all I being part of the Hatcher called 111 I Records. Said 287.71 acre tract bei	of a called 1:	act of land as			
	ION FOR PROPOSED SUBDIVISIO					
(For projects involving multiple map panels an addition	nal sheet may be listed below or incl	uded in an ac				
B1. Survey and Abstract B2. Tax ID Number(s) of Parent Tract B3. Deed Volume/Pa						
GARZA J M (A-22)	Property ID: 12562; Owner ID: 8394 Tax Certicate # 49111	405	2022-81962			
B4. Existing or Proposed Name of Subdivision The Manors	B5. Is the application for a division of a lo Subdivision? (Yes/No)	t in an Existing	Platted			
No No						
THE ABOVE NAMED APPLICANT DOES HEREBY MAKE AN APPEAL TO THE COMMISSIONER'S COURT OF WALKER COUNTY FOR A VARIANCE TO THE REGULATORY REQUIREMENTS OF THE SUBDIVISION REGULATIONS OF WALKER COUNTY, TEXAS.						
SECTION C Please list any supporting documents or sub	– LIST OF ATTACHMENTS omittals included with the variance i	request as at	tachments.			
Description of	Description of Attachment(s) Exhibit #					
C.1 Landplan Exhibit						
C.2			09 27s			
C.3						
C 4						

(All \	SECTION D -VARIANCE REQUESTANTE Ariance requests need to include the specific variance along with the Sect	
D.1	A Variance is requested to Section(s) B2.2 Walker County, Texas as follows:	of the Subdivision Regulations of
	Maximum lot depth - Owner is proposing lot depths greater than the	nree times the frontage width
	for some lots within the development which include large portions	of floodplain encroachment.
	SECTION E – APPLICANT'S JUSTIFICATION AND PRESENTATION equests to the Walker County Subdivision Regulations need to be included along v	
E.1	Is the variance related to the design or construction of improveme Yes × No No	ents to be constructed within the subdivision
	If "Yes" the request should be accompanied by an engineer's opin	nion and justification for the variance.
E.2	Please explain the cause or reason the variance is being requested. This variance request is due to the fact that a large portion of the to	•
	approximately 58.66 Acres out of 287.71 Acres, lies within the 100	year floodplain. Those areas that
	are within the 100-year floodplain have been incorporated in the lo	ots, outside the proposed build
	area, causing those lots to exceed the maximum allowable depth of	of three times the lot frontage.
E.3	Will the failure to grant the variance requested result in any excep	otional hardship to the applicant?
	If yes please explain below:	
	Without the requested variance, roughly 20% of the overall development	opment would be unusable
	by the owner and would jeopardize the feasibility of the project.	
E.4	Does the applicant propose any additional conditions, mitigation,	
	within the Walker County Subdivision Regulations that will or have of the variance being granted?	
	Yes No X Please list the additional mo	easures below.

SECTION F	-VARIANCE(S) GRANTED			
F.1 A VARIANCE TO THE WALKER COUNTY SUE	BDIVISION REGULATIONS IS GRANTED AS FOLL	OWS:		
1.1 A VARIANCE TO THE TO THE				
F.2 THE FOLLOWING CONDITIONS ARE ATTACH	HED TO THE VARIANCE:			
:				
SECTION G - NOTICE, ACK	KNOWLEDGEMENT, AND CERTIFICATIONS			
	NOTICE			
ALL DEVELOPMENT MUST BE IN STRICT COMPLIANCE STATED WITHIN THE APPLICATION OR DURING THE RESULT IN THE IMMEDIATE SUSPENSION OR CANCE VARIANCE MAY ALSO RESULT IN THE COMMISIONERS	THATION OF THIS VARIANCE VIOLATION OF TH	HE CON	DITIONS OF THIS	
	WARNING			
THE APPLICANT ACKNOWLEDGES THAT HE/SHE IS R THREATEN THE PUBLIC OR ADJACENT PROPERTIES	ESPONSIBLE TO ENSURE THAT ANY VARIANCE AND COMPLIES WITH LOCAL, STATE, AND FED	ERAL R	EGULATIONS.	
	DISCLAIMER			
THE COMMISSIONER'S COURT OF WALKER COUNT LIABLE FOR DAMAGES OR LOSS RESULTING FROM RELIANCE UPON THE STATEMENTS AND EVIDEN APPLICATION AND PRESENTATION TO COMMISSION	ICE SUPPLIED BY THE APPLICANT AND HIS	S/HER	AGENTS IN THE	
I, Paris Reservation to delimine service. Warnings and disclaimers stated above and that I understan	, do hereby acknowledge that I have review	ved the with the	provisions, notices, m.	
warnings and disclaimers stated above and that i understand Signature of Owner/Applicant	nd tricin, agree mar arem and are	Date		
Signature of Ownerrappinous.		7/	24/23	
SECTION H - ACTION OF	VARIANCE BY COMMISSIONER'S COURT		U. Ot. Toyo	
After careful consideration of the reason(s) for the re	equest of variance, the Commissioner's Court	t of Wal	ker County, Texas	
has determined that it is within the scope of the variance procedures as outlined in the Walker County Subdivision				
Regulations to this reque	Printed Name		Date	
Commissioner's Court Signature	TIMOGRAM			
Signature of Owner/Applicant acknowledging conditions	after court action.	Date		
Signature of Owner/Applicant acknowledging conditions				



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PROJECT NAME:	THE MANORS
PROJECT NUMBER:	13087
PREPARED FOR:	WALKER COUNTY P & D
DATE:	FEBRUARY 24, 2023

FLOODPLAIN LOTS EXCEEDING 3:1 DEPTH TO WIDTH RATIO VARIANCE EXHIBIT



BLEYL ENGINEERING

TEXAS FIRM REGISTRATION NO. F-678

100 NUGENT STREET, CONROE TEXAS 77301
PHONE 936-441-7633 FAX 936-760-3833
WWW.BLEYLENGINEERING,COM

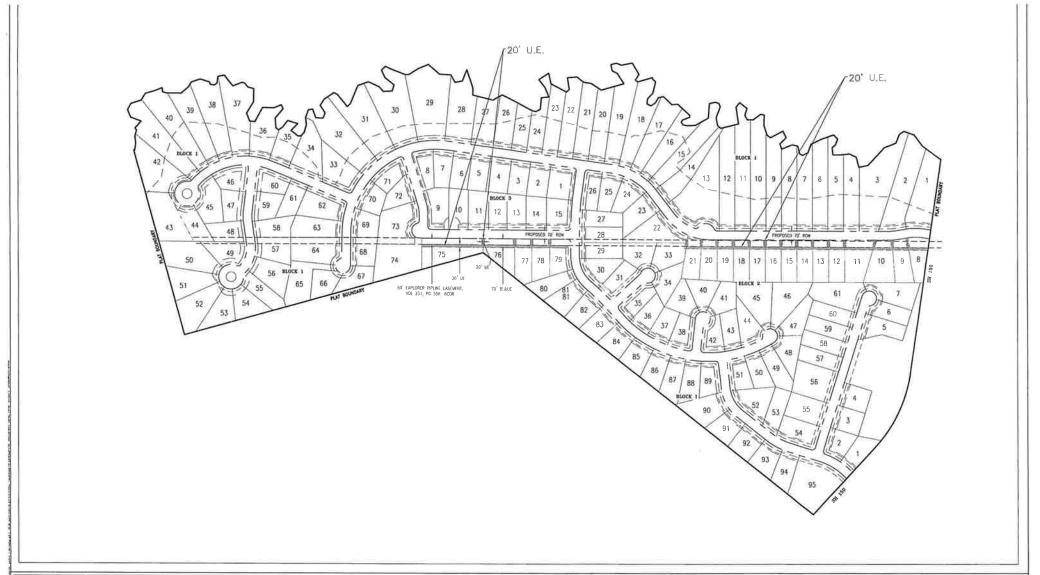
VARIANCE REQUEST TO THE SUBDIVISION REGULATIONS OF WALKER COUNTY, TEXAS

Copy all pages of this form and all attachments for (1) community official, (2) building owner. If any section is not applicable to the proposed development project please mark that section "NA"

posed development pr				
SECTION A PROFESSION				
A1. Property Owner's Name				
WAVERLY MANORS AT HIGH MEADOW DELOPMENT LLC			P-2023-010	
A2. Property Owner's Street Address Date of Submittal:				
			74-7	3
State	.5	ZIP Code		
	77	7355		
A4. Proper	ty Owner's Telephor	ne Number		
mbers, Legal Descrip	otion, etc.)			
arza Survay Abstr	ract 22: Walker Co	unty, Texas	and be	ing all of a
Clerk's File No. 58	613, and being an Hatcher called 111	.321 acre tra	act of la	nd as
a Bocorne eain za	/ / Lacie Hacitoria	วบน เวษแบน ผเ	30 0000	1000
eadow Developmer	nt LLC, recorded ir	n Document	No. 202	2-81962,
ION FOR PROPO	SED SUBDIVISIO	N TRACT	dditional	attachment)
		ACCI III AII A	D2 Dec	d Volume/Page
31. Oul VEY ally About dot				
Tax Certicate # 49111				
		er e takina	Dlatted	
B5. Is the application Subdivision? (Y	n for a division of a lo es/No)	t in an Existing	j Platted	
No	•			
E AN APPEAL TO T	HE COMMISSIONE	R'S COURT	OF WAL	KER COUNTY
MENTS OF THE S	UBDIVISION REGU	LATIONS O	r WALK	ER COUNTY,
- LIST OF ATTAC	HMENTS		44 a a b	nto
bmittals included	with the variance i	equest as a	ttacnme	
f Attachment(s)				Exhibit #
C.1 Utility Easement Exhibit				1
	State A4. Proper mbers, Legal Descriparza Survey, Abstraction Clerk's File No. 58 being part of the Records; said 28 adow Development B2. Tax ID Number Property ID: 1256 Tax Certicate # 4 B5. Is the application Subdivision? (YNO) EAN APPEAL TO TMENTS OF THE SIGNATURE AT A CERTICATE A CERTIC	State A4. Property Owner's Telephor A4. Property Owner's Telephor arza Survey, Abstract 22, Walker Co Clerk's File No. 58613, and being all being part of the Hatcher called 111 Records; said 287.71 acre tract of la adow Development LLC, recorded in ION FOR PROPOSED SUBDIVISIO all sheet may be listed below or inclu- B2. Tax ID Number(s) of Parent Tract Property ID: 12562; Owner ID: 8394 Tax Certicate # 49111 B5. Is the application for a division of a lo Subdivision? (Yes/No) No EAN APPEAL TO THE COMMISSIONE MENTS OF THE SUBDIVISION REGU LIST OF ATTACHMENTS bmittals included with the variance in Attachment(s)	State State ZIP Code 77355 A4. Property Owner's Telephone Number The property owner of the property of a called the property of the property	RMATION FOR COUNTY USE Of Application Number: P - 2023 Date of Submittal: 2 - 24 - 2 State ZIP Code 77355 A4. Property Owner's Telephone Number In Each Service of Serv

	A Variance is requested to Section(s) <u>B2.9</u> of the Subdivision Regulations Walker County, Texas as follows:
	Utility Easement Location - Owner is proposing that the 20-foot utility easement be placed outside
	of the existing 50' Explorer Pipeline Easement, which runs parallel and adjacent to the proposed
	right-of-way in some places throughout the development.
	SECTION E – APPLICANT'S JUSTIFICATION AND PRESENTATION FACTORS EFFECTING VARIANCE equests to the Walker County Subdivision Regulations need to be included along with the Section(s) of the Regulation to which the
E.1	Is the variance related to the design or construction of improvements to be constructed within the subdiv
	If "Yes" the request should be accompanied by an engineer's opinion and justification for the variance.
E.2	Please explain the cause or reason the variance is being requested (attach additional pages as "Exhibit This variance request is to allow for the 20' utility easement that would typically run parallel
	and adjacent to the right-of-way, to be placed outside an existing 50' pipeline easement (50'
	explorer pipeline esmt; vol. 231, page 556) that runs parallel and adjacent to the proposed
	right-of-way. The existing pipeline easement runs directly through the development from the
	northern boundary to the southern boundary. The landplan incorporates the easement along the right-of-
	way to prevent any significant lot revisions for the development.
	Will the failure to grant the variance requested result in any exceptional hardship to the applicant?
E.3	Yes X No If yes please explain below: If unable to move forward with the variance request mentioned above, significant design and lot
E.3	If yes please explain below:
E.4	If yes please explain below: If unable to move forward with the variance request mentioned above, significant design and lot
E.4	If yes please explain below: If unable to move forward with the variance request mentioned above, significant design and lot configurations would need re-evaluation, in addition to the feasibility of the project as a whole. Does the applicant propose any additional conditions, mitigation, or additional requirements not address within the Walker County Subdivision Regulations that will or have been met by the applicant as a conditional requirements.
E.4	If yes please explain below: If unable to move forward with the variance request mentioned above, significant design and lot configurations would need re-evaluation, in addition to the feasibility of the project as a whole. Does the applicant propose any additional conditions, mitigation, or additional requirements not address within the Walker County Subdivision Regulations that will or have been met by the applicant as a condit of the variance being granted?

SECTION	F -VARIANCE(S) GRANTED		
F.1 A VARIANCE TO THE WALKER COUNTY SUI	BDIVISION REGULATIONS IS GRANTED AS FOLL	_OWS:	
F.2 THE FOLLOWING CONDITIONS ARE ATTAC	HED TO THE VARIANCE:		
SECTION G - NOTICE, ACI	KNOWLEDGEMENT, AND CERTIFICATIONS		
	NOTICE		
ALL DEVELOPMENT MUST BE IN STRICT COMPLIANCE STATED WITHIN THE APPLICATION OR DURING THE RESULT IN THE IMMEDIATE SUSPENSION OR CANCE VARIANCE MAY ALSO RESULT IN THE COMMISIONER:	ELATION OF THIS VARIANCE VIOLATION OF TH	HE CON	DITIONS OF THIS
	WARNING		
THE APPLICANT ACKNOWLEDGES THAT HE/SHE IS R THREATEN THE PUBLIC OR ADJACENT PROPERTIES	ESPONSIBLE TO ENSURE THAT ANY VARIANCE AND COMPLIES WITH LOCAL, STATE, AND FED	DOES NERAL R	NOT DAMAGE OR EGULATIONS.
	DISCLAIMER	VED CO	NINTY ARE NOT
THE COMMISSIONER'S COURT OF WALKER COUNT LIABLE FOR DAMAGES OR LOSS RESULTING FROM RELIANCE UPON THE STATEMENTS AND EVIDEN APPLICATION AND PRESENTATION TO COMMISSION	INCE SUPPLIED BY THE APPLICANT AND HINERS COURT.	S/HER	AGENTS IN THE
warnings and disclaimers stated above and that I understan	, do hereby acknowledge that I have review	wed the pwith ther	provisions, notices, m.
Signature of Owner/Applicant	industrial, agree with them energy and	Date	<i>i i</i>
Lud for	5	2/	124/23
SECTION H - ACTION OF	N VARIANCE BY COMMISSIONER'S COURT	t of Wall	ker County, Texas
After careful consideration of the reason(s) for the rehabilities that it is within the scope of the	variance procedures as outlined in the Wa	alker Co	ounty Subdivision
	est for variance.		
Commissioner's Court Signature	Printed Name		Date
Commissioner a Court Oignature			
		Date	
Signature of Owner/Applicant acknowledging conditions	after court action.	Date	





PROJECT NAME:	THE MANORS
PROJECT NUMBER:	13087
PREPARED FOR:	WALKER COUNTY P & D
DATE:	FEBRUARY 24, 2023

OFFSET UTILITY EASEMENT VARIANCE REQUEST



BLEYL ENGINEERING

TEXAS FIRM REGISTRATION NO. F-678

100 NUGENT STREET, CONROE TEXAS 77301 PHONE 936-441-7833 FAX 936-760-3833 WWW.BLEYLENGINEERING,COM

VARIANCE REQUEST TO THE SUBDIVISION REGULATIONS OF WALKER COUNTY, TEXAS

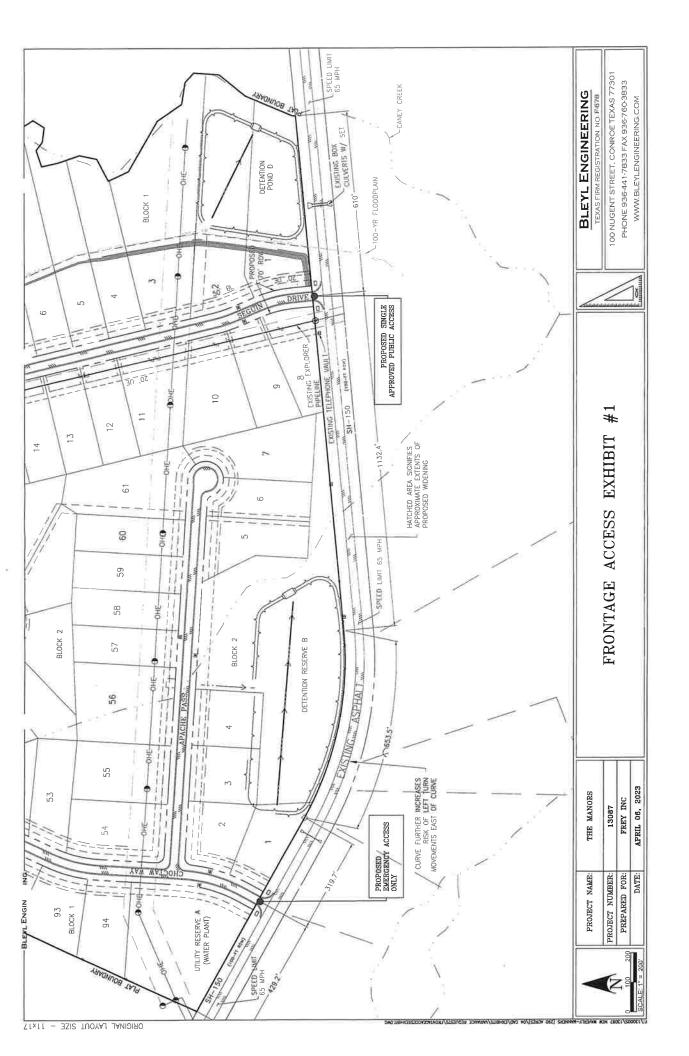
Copy all pages of this form and all attachments for (1) community official, (2) building owner.

If any section is not applicable to the proposed development project please mark that section "NA"

	osed development project please mark the	FOR COUNT	VIISE O	MIV
SECTION A - PROPERTY INFO	RMATION			INL 1
A1. Property Owner's Name		Application N		010
WAVERLY MANORS AT HIGH MEADOW DEVELOPMENT LLC			2023	-010
A2. Property Owner's Street Address Date of			100	
		4-	6-2	023
		1	0 =	_
City	State	ZIP Code		
MAGNOLIA TX		77355		
A3. Property Owner's Email Address	A4. Property Owner's Telepho	one Number		ì
A5. Property Description of Parent Tract (Lot and Block Nur	mbers, Legal Description, etc.)			
A5. Property Description of Parent Hack (Cottain Disease National Property Description of Parent Hack (Cottain Disease National) and property Description of Parent Hack (Cottain Disease National) and 287.71 acre tract of land in the Jose De La Garza Survey, Abstract 22, Walker County, Texas, and being all of a called 127.54 acre tract of called 160.31 acre tract of land as recorded in County Clerk's File No. 58612, and being part of the Hatcher called 111.321 acre tract of land as recorded in Volume 431, Page 221 of the County Deed Records; said 287.71 acre tract of land being also described in a General Warranty Deed to Waverly Manors at High Meadow Development LLC, recorded in Document No. 2022-81962, Official Public Records of Walker County, Texas.				id as ibed In a
SECTION B - INFORMATI	ON FOR PROPOSED SUBDIVISION	ON TRACT		
(For projects involving multiple map panels an addition	nal sheet may be listed below or inc	luded in an a	dditional	attachment)
B1. Survey and Abstract	B3 Deed Volume/Pa			
GARZA J M (A-22)	Property ID: 12562; Owner ID: 83: Tax Certicate # 49111	9405	2022-81	1962
B4. Existing or Proposed Name of Subdivision	B5. Is the application for a division of a	lot in an Existing	g Platted	
The Manors	Subdivision? (Yes/No)			
THE Manors	No No			
THE ABOVE NAMED APPLICANT DOES HEREBY MAKE FOR A VARIANCE TO THE REGULATORY REQUIRED TEXAS.	E AN APPEAL TO THE COMMISSION MENTS OF THE SUBDIVISION REG - LIST OF ATTACHMENTS	ER'S COURT BULATIONS O	OF WALK	(ER COUNTY ER COUNTY,
Please list any supporting documents or su	bmittals included with the variance	e request as a	attachme	ents.
· · · · · · · · · · · · · · · · · · ·	Attachment(s)			Exhibit #
C.1 Frontage and Access Exhibit				1
C.2				
C.3				305 15-
C 4				

(All V	SECTION D -VARIANCE RE ariance requests need to include the specific variance along with the	e Section(s) of the Regulation to which they apply)			
D.1	1 A Variance is requested to Section(s) B3.4.1 of the Subdivision Regulation Walker County, Texas as follows:				
	Points of Access - Owner is proposing that secondary access be restricted to emergency access only.				
S riance re	ECTION E – APPLICANT'S JUSTIFICATION AND PRESENTA quests to the Walker County Subdivision Regulations need to be included a	ATION FACTORS EFFECTING VARIANCE along with the Section(s) of the Regulation to which they ap			
E.1	Is the variance related to the design or construction of impro	ovements to be constructed within the subdivision			
	If "Yes" the request should be accompanied by an engineer	's opinion and justification for the variance.			
E.2	Please explain the cause or reason the variance is being rec	quested (attach additional pages as "Exhibit E.2"			
	This variance request is to allow for the second point of acce	ess to be restricted to emergency access.			
	Typically two separate and approved public access roads wo	ould be required. The traffic flow analysis			
	shows that a single left turn lane can adequately accommodate the anticipated traffic volume. Two public				
	access points doubles the locations of left turn movements, increasing the risk to public safety involved				
	with said left turn movements across high-speed rural highways. Also, the proposed emergency access				
	is just east of a curve, further increasing the risk of left turn n	movements if made a public access.			
E.3	Will the failure to grant the variance requested result in any exceptional hardship to the applicant?				
	Yes X No				
	If yes please explain below:				
	If unable to move forward with the variance request mentioned above, turn lanes and widening of SH-150				
	would be required along the entire frontage of the property, increasing locations of left turn movements,				
	as well as threatening the feasibility of the project as a whole.				
E.4	Does the applicant propose any additional conditions, mitigation, or additional requirements not addressed within the Walker County Subdivision Regulations that will or have been met by the applicant as a condition of the variance being granted?				
	Yes No Please list the addition	onal measures below.			

SECTION	F -VARIANCE(S) GRANTED		
F.1 A VARIANCE TO THE WALKER COUNTY SUI	BDIVISION REGULATIONS IS GRANTED AS FOLL	.OWS:	
F.2 THE FOLLOWING CONDITIONS ARE ATTAC	HED TO THE VARIANCE:		
	2		
1000-000			
	AND CERTIFICATIONS		
SECTION G - NOTICE, ACI	KNOWLEDGEMENT, AND CERTIFICATIONS		
ALL DEVELOPMENT MUST BE IN STRICT COMPLIANCE STATED WITHIN THE APPLICATION OR DURING THE RESULT IN THE IMMEDIATE SUSPENSION OR CANCE VARIANCE MAY ALSO RESULT IN THE COMMISIONER:	E PRESENTATION TO COMMISSIONERS COUR FILEATION OF THIS VARIANCE, VIOLATION OF TH	HE CONDITIONS OF T	HIS
	WARNING		
THE APPLICANT ACKNOWLEDGES THAT HE/SHE IS R THREATEN THE PUBLIC OR ADJACENT PROPERTIES	ESPONSIBLE TO ENSURE THAT ANY VARIANCE AND COMPLIES WITH LOCAL, STATE, AND FED DISCLAIMER	E DOES NOT DAMAGE DERAL REGULATIONS	OR
THE COMMISSIONER'S COURT OF WALKER COUNT LIABLE FOR DAMAGES OR LOSS RESULTING FROM RELIANCE UPON THE STATEMENTS AND EVIDEN APPLICATION AND PRESENTATION TO COMMISSION	TY AND ANY OFFICER OR EMPLOYEE OF WAL IN THE GRANTING OF THIS VARIANCE. THIS VA NCE SUPPLIED BY THE APPLICANT AND HIS	AKIANGE IS GRAIVIEL	D IN
David R. Frey	, do hereby acknowledge that I have review	wed the provisions, notice with them	ices,
warnings and disclaimers stated above and that I understand Signature of Owner/Applicant	and them, agree with them and intend to rany comply	Date 4/6/202	フ
IMI YOU		7/0/200	7
SECTION H - ACTION OF	VARIANCE BY COMMISSIONER'S COURT	Mallear County T	Tovas
After careful consideration of the reason(s) for the re	equest of variance, the Commissioner's Court	t of warker County, I	delar
has determined that it is within the scope of the		aiker County Subdiv	risioi
Regulations to this reque		Date	
Commissioner's Court Signature	Printed Name	Date	
Signature of Owner/Applicant acknowledging conditions	after court action.	Date	



WALKER COUNTY UTILITY DEPARTMENT

1100 University Avenue, Suite 207 Huntsville, Texas 77340 (409) 291-9500 ext. 46

AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWERAGE FACILITY

Application Num	ber Nº 99 592	28		
Property Owner	Jim Frazi	ur		
Mailing Address				
roperty Location	347 Rosenia	Sall, 6.88 AC	, Lot 8, block	2, Section,
	Northaata 1	Meadows		
	9			
appropriate fee application has by the Walker C submitted plans. Any modificate	have been received by been reviewed for tec County Utility Departr ons to submitted pla	the Walker County Unical and administration that the Market County Unical and the Market County Unical Indiana	tility Department from tive consideration again by granted for the cons	the the property owner. The st the standards set forth truction as shown on the sty Utility Department
prior to installa	ition.			
required facility	inspection. The auth	orization to construct	is valid for one year fro	mpletion to arrange the m the date of issue. If a nd fee will be required.
Comments:	k to install	Constructed	wetland sy	stem Per
Layre	Dudoms		7	4-25-99
ADDITCATIONACCVIEWER			Dat	ic .

White - Central Office • Yellow - Customer

JUN 97 1999 Utility Department

JIM FRAZIER ON-SITE SEWAGE DISPOSAL SYSTEM

PREPARED BY

Jerry Glenn Ince, PE #81062 211 Indian Pines Lane Madison, Mississippi39110 (601) 605-0878





June 11, 1999

Mr. Royce Adams, Director, Walker County Utility Dept. 1100 University Av. Rm. 205 Huntsville, Tx. 77340 by hand-delivery on above date

Re: Authorization for OSSF for Jim Frazier at Rosenwall Rd. in Walker County, Texas; Permit No. 19995928

Dear Mr. Adams:

Enclosed please find a copy of the West Virginia Design Module Number 74 (1993); Guidance for Design and Construction of a Subsurface Flow Constructed Wetland (by the E.P.A.-Region 6); and General Design, Construction. and Operation Guidelines: Constructed Wetlands Wastewater Treatment Systems for Small Users Including Individual Residences (by the TVA). In our meeting in Judge Wagamon's office on June 7, 1999, you told me that upon receipt of those documents you could begin your evaluation and would be finished with same within 5 working days as provided by law. You received the original engineer's design (with signature and seal) for the above OSSF from me at that meeting.

Please return the above documents to me when you have completed your review of them, unless that would interfere with the authorization process. Feel free to contact me at the telephone numbers above if you have any questions.

Sincerely,

ames M. Frazier,

enclosure

DESIGN REPORT

ON SITE SEWAGE FACILITIES WITH CONSTRUCTED WETLANDS

FOR

JIM FRAZIER

HISTORY

Jim Frazier desired an on-site sewage facility to be installed on his property located in a rural setting in northern Walker County just off Rosenwall Road and approximately 2.0 miles north of Huntsville, Texas. Mr. Frazier was interested in the latest environmentally pleasing and low cost method to treat the waste from the septic system and requested assistance from Jerry Ince, Registered PE to design this complete septic system with a subsurface flow constructed wetland to further treat any toxins exiting the septic system.

SITE SURVEY AND SOILS INVESTIGATION

A topographic survey was performed to locate all existing buildings, utilities and boundary lines and show them clear of the system. The elevation shots taken were used to locate the placement of the system components in the most feasible manner. As shown on the location map utilities do not exist in the immediate work area and will not be affected by this construction. Mr. Frazier will be responsible for locating any private utility line on the property for the installer.

The area was uniformly sloping to the east at about 1% with elevations ranging from 100.00 near the south side of the house pad, to the elevation of 98.0 near the disposal area. See Location Map. No subsurface or perched water table was found. A Soils investigation was conducted to a depth of 12 feet by a geotechnical engineer for designing the house pad. The results were verified by three samples taken in the areas of the drainfield. The soil at this site contained clay (Houston Clay) at 6 to 12 inches as shown on the attached soils report and continued though-out the soil sample taken. From this data I would classify the soils at this site as Class IV soils.

Historical data from earlier laboratory analysis reveal a permeability range for the clay of between 0.2 and 2.0 for the entire strata. (USDA-NRCS soils 5 Oct, 1985). With these permeability values the site would be an excellent site for an alternate waste treatment technology. A constructed wetland with subsurface flow (SF) was chosen because of its ability to combine soil absorption, evapo-transpiration and natural biological processes to assist the conventional septic system in treating waste water effluent.

CONSTRUCTED WETLAND DEFINITION

The Tennessee Valley Authority (TVA) is a federal regional resource development agency which has a major goal of cleanup and protection of waters of the Tennessee River System. Since 1986 the, TVA has successfully demonstrated wetland technology as a viable means for accomplishing this goal. TVA defines a constructed wetland (CW) as a "man-made, engineered, marsh-like area which is designed, constructed and operated to treat waste water by attempting to optimize physical, chemical, and biological processes of natural ecosystems." A CW is "effective, reliable, simple and relatively inexpensive when compared to other alternative systems." (TVA,1993)

West Virginia University defines a CW as a wetland specifically constructed for the purpose of pollution control and waste management, at a location other than existing locations. (WVU-Design Manual Number 74 1993)

DESIGN OF DESIGN OF SUBSURFACE FLOW CONSTRUCTION WETLAND

This system was designed using the most current procedures and guidelines as found in the above mentioned TVA publication, WVU design manual, and Environmental Protection Agency's publication Subsurface Flow Constructed Wetlands for Wastewater Treatment (1993) and guidelines found in TNRCC's Construction Standards for On-Site Sewage Facilities (1996).

This system is designed to treat the waste water from the four bedroom home located on Mr. Frazier's property located approximately 2.0 miles north of Huntsville, Texas just off Rosenwall Road. The site will be designed on the basis of a four bedroom home containing conservation fixtures such as low-flush toilets and low-flow shower heads. This results at a maximum flow of 300 gpd for the system. Mr. Frazier realizes the responsibly for limiting flow to this value or less. No garbage disposal should be allowed.

SITE INFORMATION

The water will flow from the house in sealed 4" PVC (SCHEDULE 40) for 10 feet until it enters either a 1000 gal. reinforced concrete septic tank or two 500 gallon tanks installed in series. The inflow pipe will begin at elevation 100.0 at the building plug and result at the tanks at elevation 99.6. This will ensure the required fall remains to complete the system. This grade exceeds the minimum allowable of 1/8 inch per foot fall. If necessary excess soil will be mounded over the tanks to achieve the tanks being buried between six inches and a foot under the soil surface and will adhere to all

installation guidelines for clean-outs and orientation of the Tees as stated in the TNRCC guidelines.

From the second tank the water will flow in a 4" PVC pipe (SDR35) to the Constructed Wetland (CW). A Zabel Filter (Model A1800) will be installed at the outlet of the second septic tank. It will enter the CW at elevation 98.9 and be distributed across the CW by means of a perforated 4" PVC pipe. The CW will be one celled with a flat bottom. The cell will have an average design depth of flow of 12". The hydraulic grade for a flat cell shows the water level at the inlet to be at elevation 99.1 and at the outlet to be 99.0. The primary media will be placed in this area and will be comprised of shredded recycled tires chunks of 3" or less with steel protrusions and will adhere to the specifications approved by TNRCC. Four inches of rock media will be placed above the tire chips and throughout the entire cell. The bottom of this cell will be flat and at an elevation of 98.0. Water will gravity flow through the cell and outlet via 4" perforated pipe at elevation 99.0.

The CW cell will be staked at 11.0 ft x 32.0 ft and then landscaped for appearance. This will result in a larger CW than required for the treatment of the wastes. The CW cell will not be lined due to the clay content of the soil. All excavated material will be mounded around the outside of the CW and provide 6" or more freeboard above the bed surface to handle rainfall and exclude outside runoff. Water will gravity flow through the system.

DESIGN PARAMETER AND CALCULATIONS

The following values were used to design this system:

Ave. winter Temperature for Walker County, Texas is 9 degrees Celsius Porosity of rubber tire chunks - 50%

Porosity of rock - 35%

Organic Loading - 0.17 lb/day/per (use 30% reduction for septic tanks-conservative)

Hydraulic conductivity - 0.5 %

Desired treatment by the CW

Reduce BOD from 333 mg/l to 20 mg/l

Final TSS of 20 MG/l

Using the above values and the first order BOD removal equation was used to calculate the surface area. (Reed, 1993).

As = (L)(W) = Q [ln(Co/Ce]/Kt(d)(n)

 $Kt = K20(theta)^T-20$

K20 = 1.104

theta = 1.06

Darcy's Law (Q = KsAS) was used to verify sub-surface flow. All calculations are included in the Appendix and values are shown on the drawings.

EVAPO-TRANSPIRATION BEDS

Bruce Lesikar of the Texas Agricultural Extension Service Demonstration Projects has shown results verifying CW wetlands to show a measurable water loss as well as treatment of BOD, TSS, and other elements. Rein Laak developed an equation showing this relationship as:

% reduction = $[(BOD5 + TSS)out/(BOD5 + TSS) in] ^1/3$

This shows a reduction of 46.7% of which this system is only claiming 39%. Installation of Absorptive Field Trenches to meet the no discharge laws were computed using the reduced water rate, and a reduction of water lost in the cell floors was not taken. The Disposal trenches will consist of 4 trenches of 80 ft in length broken at intervals as shown and connected by ten foot spacing to total the required 370 ft, with 4" perforated PVC and a trench width of 3 feet. Absorptive trenches were used due to the fact that the water is treated in the wetland cell. A five foot trench area was used for absorption.

Permeable geotextile conforming to TNRCC specifications will be used to separate the tires from the backfill as shown in the drawings. This system will function throughout the year and will recognized the greatest amount of Evapo-transpiration during the summer months and will utilize the freeboard to handle the winter rains.

SUGGESTED PLANT SPECIES

This constructed wetland will contain plants to increase desirable oxygen levels in the water to assist the CW in treating the effluent. True hydrophites should be planted in the first cell to allow the roots to create the needed micro-climate that produces the enzymes that assist with the bio-chemical processes in the water. Large leaf plant capable of transpiring large amounts of water are desirable. Suggested plants in order of preference are:

Common Cattail
Southern Bulrush (scirpus californicus)
Reed (phragmites communis)
Pickeral Weed (ponterderia cordata)
Arrowhead (Sagitaris spp.)
Soft Rush (juncus effusus)
Water Iris (iris psuedacorus)
Duck Potato (sagittaria falcota)
Canna Lily (canna flaccida)
Calla Lily (zantedeschia aethopical)
Thaylia (dealbata and divericata)

OPERATION AND MANAGEMENT

During installation special care should be taken in placement of the media to avoid compaction. Only clean media free of dirt and debris should be used. All pipes and flow control devices should be installed on proper grades at the specified elevations. Chosen plant species should be properly spaced. Loading of the system before placing of plants is advisable. The septic tanks should be maintained by pumping of solids at regular intervals. Plants may need watering during periods of extended low water usage. Mulching of the cell would assist in maintaining available water to the plants.

Ponding may mean the inlet structure needs cleaning of existing solids. Utilize the clean-out plug should this occur. Protect all PVC from ultraviolet exposure to prevent degradation. Any eroding of the berm should be repaired immediately as should any leaks of broken pipes. Site should be mowed and maintained for attractiveness. Mature vegetation should be trimmed to encourage new growth, and any undesirable plants should be removed. Visually check plants for fertilizer needs but avoid introducing any harsh chemicals into the system.

SUMMARY AND CONCLUSION

Conservative values were used throughout the design of this rural sewer system. Reduction were taken at rates lower than allowable and the finished cells will be larger than required making this system a viable economical alternative to treat the waste water to a higher quality by use of a constructed wetland. By improving the quality and reducing the quantity of the water, this system improves the disposal fields ability to function with a lower level of maintenance and with fewer failures. The use of the recycled tire chunks assist in reducing energy costs for tire disposal and will aid in conserving gravel resources.

All components of this system will be installed to meet criteria set forth by TNRCC, and shall employ good engineering practices. Any area not covered in this design report or on the drawings will be handled with this statement in mind.

TNRCC WORKING COMMITTEE CONSTRUCTED WETLANDS

RECOMMENDATION FOR INSTALLATION OF EXPERIMENTAL, DEMONSTRATION AND/OR RESEARCH CONSTRUCTED WETLANDS SYSTEMS

It has been proposed that design standards be established for constructed wetland systems to allow their use for on-site wastewater treatment of single family residences anywhere in the state. This working committee on constructed wetlands, chaired by Warren Samuelson, of the TNRCC's Agriculture & Watershed Management Division, has met several times and has developed the following recommended guidelines for Commission consideration in establishing a process for the installation and monitoring of experimental constructed wetlands systems and for the installation and close monitoring of demonstration/research systems. The goal of this recommended process is to develop data for establishing standards for constructed wetlands, testing drainfield reduction capability, and evaluating these systems as possible solutions for on-site wastewater treatment for single family residences in Texas. The initial goal of this process is to monitor a minimum of 25 experimental and 10 demonstration/research systems over a two year time period. Initially to provide consistency, Pineywoods Resource Conservation & Development, Inc. will consolidate the data for the first 25 experimental systems. Another party will assist in the data consolidation if more than 25 systems are monitored to help with the resource needs. All of this data will be provided to the chair of this working committee on constructed wetlands. The chair of this working committee will consolidate the data for the 10 demonstration/research projects. At the end of the monitoring period, this working committee will evaluate the information gathered from the experimental systems, along with results from the demonstration/research projects, and make recommendations to the Executive Director for adopting standards for constructed wetlands for on-site wastewater treatment for single family residences in Texas.

EXPERIMENTAL SYSTEMS

1. Authorized Agents are encouraged to participate in this program to allow the installation of experimental constructed wetlands in their jurisdictions using the published design standards established in this document. The Authorized Agents will be responsible for notifiying the Executive Director and the chair of this working committee when a system is to be installed as an experimental system. The initial goal is to have a maximum of five of these experimental systems per permitting authority. Experimental systems meeting these criteria will also be considered in those counties in which TNRCC is the permitting authority. It is understood that all costs associated with monitoring these systems will be the responsibility of the permitting authority, or someone designated by the permitting authority.

It is anticipated that these experimental systems will be installed on sites which are considered suitable for conventional subsurface disposal systems. However, these experimental systems can also be constructed in areas with clay soils where perched or seasonal high water tables do not exist within 2 (two) feet of the bottom of the drainfield or unlined wetland cell.

- All installations will consist of:
 - a) a septic tank(s) in accordance with TNRCC standards;
 - a subsurface flow constructed wetland based on the criteria in Item 3 of this recommendation; and
 - c) an on-site subsurface disposal system, reduced in size from existing TNRCC standards based on the criteria in Item 4 of this recommendation.

In addition, all setback requirements must meet existing TNRCC standards.

- 3. The initial parameters for the constructed wetland cell to be installed for this experimental monitoring study will be developed by this working committee for a three bedroom home (design adjusted up or down according to the number of bedrooms) and will be in accordance with one or more of the following published standards. This initial planning material will be developed by either a registered professional engineer or a registered sanitarian, and approved by the Executive Director.
 - a) Reed, Sherwood C., et al, Natural Systems for Waste Management and Treatment, 2nd Edition, McGraw-Hill Publishing Co.,1995.
 - b) Steiner, Gerald R. and James T. Watson, General Design, Construction, and Operation Guidelines: Constructed Wetlands Wastewater Treatment Systems for Small Users Including Individual Residences, 2nd Edition, May 1993, Tennessee Valley Authority.
 - c) EPA, 1993, Guidance for Design and Construction of a Subsurface Flow Constructed Wetland.

This initial planning material could be used in subsequent planning material submittals provided the same formula is used and there are similar site conditions. The Authorized Agent will verify that the site conditions are similar before allowing installation of the system. The only allowable change will be the number of bedrooms. If another standard is used, new planning materials will need to be developed and reviewed by this working committee and approved by the Executive Director.

4. The initial parameters for the drainfield to be installed for this experimental monitoring study will be developed by this working committee for a three bedroom home (design adjusted up or down according to the number of bedrooms) and will be in accordance with the existing TNRCC standards, with a reduction in the size of the drainfield based on one of the following references. For soils with percolation rates greater than 60 min./in., the subsurface disposal area will be based on one of the following references. This initial planning material will be developed by either a registered professional engineer or a registered sanitarian, and approved by the Executive Director.

- a) Laak, Rein, Wastewater Engineering Design for Unsewered Areas, 2nd Edition, Technomic Publishing Company, Inc., 1986.
- b) Bernhart, A. P., Treatment and Disposal of Waste Water from Homes by Soil Infiltration, Vol. 1, 2nd Edition, University of Toronto Press, 1973.
- c) Siegrist, R. L., "Hydraulic Loading Rates for Soil Absorption Systems Based on Water Quality", On-Site Wastewater Treatment, Proceedings of the Fifth National Symposium on Individual and Small Community Sewage Systems. ASAE, 1987.

This initial planning material could be used in subsequent planning material submittals provided the same formula is used and there are similar site conditions. The Authorized Agent will verify that the site conditions are similar before allowing installation of the system. The only allowable change will be the number of bedrooms. If another standard is used, new planning materials will need to be developed and reviewed by this working committee and approved by the Executive Director.

- 5. Installation must meet TNRCC requirements (licensed installer or homeowner installer). The system must be permitted by the permitting authority. The permit will be given conditionally for two years. Upon successful completion of the monitoring period (without failure), the conditional requirement will be removed and a regular permit will be issued.
- 6. It is mandatory that the homeowner be notified about the experimental nature of the installation, the conditional permit, and the requirement for the homeowner to properly operate and maintain the system and be required to sign a statement of acknowledgement. A letter of agreement between the permitting authority and the homeowner will be developed to allow the permitting authority access to the property and to require prior notification by the permitting authority before entering the property.
- 7. The permitting authority will be responsible for establishing and maintaining an administrative file for each experimental system. The file would include the system plans, a thorough documentation of the soil conditions at the site, the cost of the system, and documentation of the final installation inspection. A copy of the entire file will be sent to the chair of this working committee and the Pineywoods Resource Conservation & Development, Inc. after the project is installed and inspected.
- Monitoring of each experimental system will be done by the permitting authority every 4

(four) months and will be submitted to the Pineywoods Resource Conservation & Development, Inc. and then to the chair of this working committee for distribution to other members. The following will be monitored and recorded on a monitoring sheet developed by this working committee:

- a) Flow quantity into the home.
- b) Climate (rainfall and pan evaporation).
- c) Visual observations
 - -- Water surfacing from drainfield or wetland cell?
 - -- Plants
 - -- Yes, No
 - -- Condition of Plants (Dead, Alive, Flourishing)
 - -- Harvest (Yes, No?)
 - -- Type
 - -- Plants doing best
 - d) Odors/Vectors?
 - e) Observations from homeowner
- The duration of this experimental monitoring process will be 2 (two) years.

DEMONSTRATION/RESEARCH SYSTEMS

In order to establish standards for constructed wetlands for on-site wastewater treatment, a minimum of 10 research/demonstration systems will be constructed and more closely monitored for a period of two years. These systems will be used to gather data to support a subsurface drainfield reduction standard, document water loss/gain through a lined wetland, document the performance of a subsequent drainfield in clays, and document a wetland system with and without the use of plants. This information will then be evaluated with the experimental systems data to develop standards.

The chair of this working committee will establish and maintain an administrative file for each of these demonstration/research projects. The file will include the system plans, a thorough textural classification of the soil at the site, the hydraulic conductivity of an undisturbed soil core, the cost of the system, and documentation of the final installation inspection.

The following data will be obtained and recorded for the research/demonstration projects. This data will be provided directly to the chair of this working committee every six months.

- a) Water loss/gain in wetland
 - 1) Flow quantity into and out of the wetland cell(s) (weekly)

- 2) Nearby rainfall data (daily)
- 3) Nearby pan evaporation data (weekly)
- b) Monthly testing the quality of the influent and the effluent for:
 - 1) Biochemical oxygen demand [BOD(5)]
 - 2) Total suspended solids (TSS)
 - 3) Fecal Coliform
- Periodic testing the dissolved oxygen (DO) of the system (at least 3 times per year)
- d) Monthly measuring of the depth of water in the disposal area

On-Site Constructed Wetland Monitoring Sheet

System No.	County:			
Date:				
Owner:				
Location:				
Rainfall:	Evaporation Rate:			
Water surfacing in wetland cell or drainf	ield (Yes / No)? If "Yes", please explain:			
Any odors or vectors observed (Yes / No	o)? If "Yes", please explain:			
보다 하나에 하는 내 없었다면서 하나라 이번 그렇게 하는 사람들이 되는 것이다. 나라는 내 가입니다.	nd surface by vegetation and relative coverage by each Elephant Ears: 50%; Total Coverage: 85%):			
Please list any observations regarding he	alth and vigor of plants:			
Has vegetation been introduced or remove "Yes", please explain:	ved from wetland since previous inspection (Yes / No)? If			

39			•
her observations:		- Pr	
ner ooservations.	1.8		

Explanation of On-Site Constructed Wetland Monitoring Sheet

System Number

A unique number assigned by the TNRCC to each experimental system for reference purposes.

Date, Owner

Self explanatory

Location

General location of the system such as "Hwy 90 East, China TX" or perhaps just "China, TX".

Rainfall

The amount of rainfall over the week prior to, and including, the date of inspection. Specify the dates and the amounts.

County, Permitting Authority

Self explanatory

Inspector

The name of the individual performing this inspection. It is assumed that the "Inspector" is an agent or employee of the "Permitting Authority".

Flow Meter Reading:

The reading on the flowmeter into the home at the time of inspection (gallons).

Evaporation Rate

The rate of evaporation on the date of inspection.

Water Surfacing, Odors/Vectors

Are these present? For example, the amount of water visible (i.e., small, considerable, flowing).

Coverage of Wetland Surface

This information was requested by the working group to determine how well the plants are growing, what types of plants are growing, and which plants are doing best. This is an attempt to get a quantitative indication of which plants are doing best. The sum of all the different species should equal the total. The example is given on the sheet because the question is not very clear.

Health and Vigor of Plants

This is separated from the previous question because some plants may just "get sick", rather than die. This section should also indicate when each particular species goes dormant.

Plants Introduced or Removed

The working group requested information on whether plants were harvested or not. Planting of new plants is just as important as harvesting.

Observations from Homeowner

This space should be used to record any comments from the homeowner, positive or negative.

Other Observations

The inspector may have additional observations which may be important that are listed on the sheet.

Calculations for Jim Frazier Constructed Wetlands

1. Existing Conditions

Organic loading/capita = 0.17 lbs BOD/cap/day

Loading = 0.17 lbs/cap/day X 7.0 persons/residence = 1.19 lbs BOD/day

Flow = 300 gal/cap/day (4 bedroom home with conservation fixtures) Flow = $40 \text{ ft}^3/\text{day}$

Concentration of BOD to septic tank = 1.19lb BOD/day divided by 0.000300MGD x 8.34 lb/gal x 1ppm/mg/l

Concentration of BOD to septic tank = 475.6 mg/l

Removal of BOD to septic tank = 30% (assumption)

Concentration of BOD to outlet = $0.7 \times 475.6 = 333 \text{ mg/l}$

2. Calculate the surface area required for BOD removal.

$$As = L \times W = Q[\ln (Co/Ce)] / [Kt (d) (n)]$$

Where:

$$Kt = K20 \text{ (theta)}^{-1}(T-20 \text{ degrees C})$$

K20 = 1.104

theta = 1.06

T = 11 degrees C for Walker County.

$$Kt = (1.104) (1.06)^{(11-20)} = 0.653$$

d = 1 ft

n = 0.50 [for rubber tires]

 $L \times W = (40 \text{ ft}^3) [\ln(333/20)] / (.653) (1) (.5)$

$$L \times W = 345 \text{ sq. ft.}$$

Assuming a 3:1 length-to-width ratio L = 3W

3. Calculate the hydraulic capacity with Darcy's Equation.

$$Q = Ks(A)(S)$$

Where:

$$A = 1.25 \text{ ft } \times 11 \text{ ft.} = 13.75 \text{ sq. ft.}$$

Ks = 328,100 cu. ft. / sq. ft. / day (use 0.3 Ks as a safety factor)

$$Ks = 1/3 (328,100) = 109,366 \text{ cu. ft. / sq. ft. / day}$$

$$S = d / L = 1.25 / 32$$

 $S = 0.0375$ (use 0.1(S) as a safety factor)

$$Q = 5,639 \text{ cu. ft./day}$$

Based on these calculations, the design should obtain the necessary BOD removal and provide adequate hydraulic capacity.

Compute length of disposal trench required.

$$A = Q/Ra$$

Where A = Evaporation bed area required for disposal
Q = Flow in gal/day
Ra = Sewage application rate in gal /sq. ft. /
day

A = 300 / 0.10 (Ra for clay)

A = 3000 Sq. Ft.

No reduction is claimed for the CW floor.

The Rein Laak equation for reduction of field lines due to pre-treatment is:

% reduction = $[(BOD5 + TSS) \text{ out/} (BOD5 + TSS)] ^.33333$

% reduction = $[(20 + 20) / (333+60)] ^.333333 = 46.7\%$

use 39%.

After reduction is (3000)(0.61) = 1830 sq. ft.

3ft. trench width + 2 ft of walls yields 366 ft of field line.

5. Detention time

Detention time = (Volume x Void Space) / Flow

Detention time = $(345 \times .50) / 40$

Detention time = 4.3 days

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION OSSF SOIL, EVALUATION FORM

Name of Si	te Evaluator Jerry Ince		Registrati	on Number PE	
Date Perfor	med <u>5-29-99</u>		Proposed Excav	ation Depth 18 in	iches
Pleas show For s excar	ast two soil evaluations is show the results of each on on the site drawing. Subsurface disposal, soil evation depth. For surface describe each soil horizat the, appropriate depth	ch soil evaluation on evaluations must be e disposal, the surface zon and identify any	a separate table. I	Locations of soil of the pth of at least 2 ft evaluated.	below the pro
Soil Boring	Number 1				T
Depth (ft)	Textural Class	Structure (if applicable)	Drainage Mottles / Water Table	Restrictive Horizon	Comment
T	0-6 " Sandy Loam	Soft	None	None	
+ 1	6-12" Clay Loam	Medium	None	None	
2					
+ 3	12-48" Clay	Massive	None	None	
1 4 5					
Ti					
± 6					
	the above statements are	true and are based o	n my own field oh	servations	

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION OSSF SOIL, EVALUATION FORM

Name of Site	Evaluator Jerry Ince		Registrati	on Number PE	
Date Perforn	ned 5-29-99		Proposed Excav	ation Depth 18 ir	iches
Please shown For su excava	st two soil evaluations re show the results of each on the site drawing. bsurface disposal, soil of ation depth. For surface describe each soil horization, appropriate depth	h soil evaluation on evaluations must be e disposal, the surfac- zon and identify any	a separate table. It performed to a de- ce horizon must be	pth of at least 2 ft evaluated.	evaluations mu
Soil Boring	Number 2				
Depth (ft)	Textural Class	Structure (if applicable)	Drainage Mottles / Water Table	Restrictive Horizon	Comment
T 0	0-12 " Sandy loam	Soft	None	None	
_ 2	12-24" Clay Loam	Medium	None	None	
T 3 4	24"-48" Clay	Massive	None	None	
5					
± 6					
certify that th	e above statements are	true and are based o	n my own field ob	eservations.	

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION OSSF SOIL, EVALUATION FORM

	te Evaluator Jerry Ince		Registrati	on Number PE	
Date Perfor	med <u>5-29-99</u>		Proposed Excav	ation Depth 18 in	nches
Pleas show For s exca Pleas lines	ast two soil evaluations are show the results of each on the site drawing. Subsurface disposal, soil evation depth. For surface describe each soil hor at the, appropriate depth	evaluation on evaluations must be e disposal, the surfa- izon and identify any	a separate table. I performed to a de- ce horizon must be	Locations of soil of poil of at least 2 ft evaluated.	evaluations mu
Soil Boring Depth (ft)	Number 3 Textural Class	Structure (if applicable)	Drainage Mottles / Water Table	Restrictive Horizon	Comment
T 0	0-3 " Sandy loam	Soft	None	None	
+ 1 + 2 + 3	3-6" Clay Loam	Medium	None	None	
4 - 5 - 6	6"-48" Clay	Massive	None	None	

REFERENCES

Texas Department of Health, 1990. Construction Standards for On-Site Sewerage Facilities. Austin, Texas; Division of Water Hygiene

Lesikar, B.J., Fipps, G., and Turner, G.A., Constructed Wetlands Systems for Onsite Wastewater Treatment and Reuse. Texas A&M University.

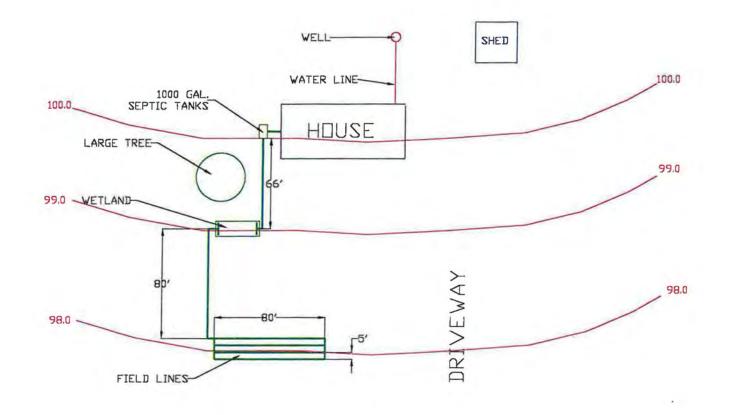
EPA. 1993. Subsurface Flow Constructed Wetlands for Wastewater Treatment: A technology Assessment. EPA 832-R-93-001. Washington, D.C.: Office of Water

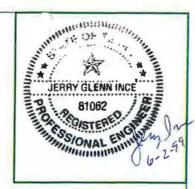
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Reed, Sherwood C., P.E. Subsurface Flow Constructed Wetlands for Wastewater Treatment. Draft. 1993 West Virginia University, Design Manual Number 74

TVA. TVA/wm-93/10. 1993. General Design, Construction, and Operation Guidelines Constructed Wetlands Wastewater Treatment Systems for Small Users Including Individual Residences. Chattanooga, Tennessee.

Midwest Plan Service, Structure and Environment Handbook, Eleventh Edition 1983, REV 1987.





SCALE 1'' = 50'

-7-

ROSENWALL RD

JIM FRAZIER SEWAGE SYSTEM ON-SITE

Jerry G. Ince, P.E.

Inlet elevation at septic tanks 99.6 Dutlet at tanks 99.3 Note: A minimum of 6' inches of fill but not more than 12' will be

Note: Trenches will be level.

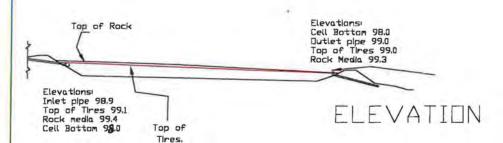
Note: 1000 gallon tank with two chambers may be used.

Note: A maximum 1' clearance will be maintained between the top of each 'Tee' and the 12' cleanout,

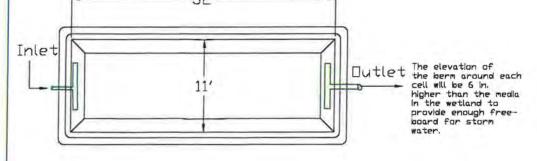


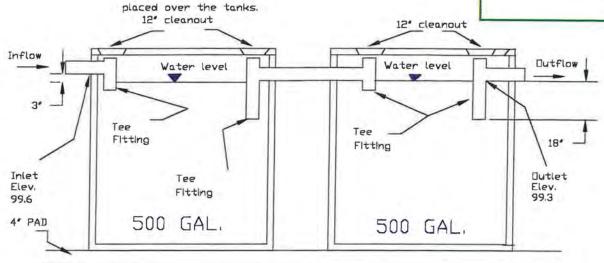
Note: All pipe elevations are located at the bottom of the pipes.

Note: Inlet pipes are 4" perforated PVC with holes down.

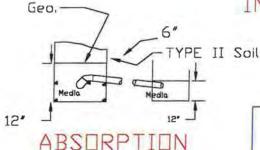


PLAN VIEW





TWO SEPTIC TANKS IN SERIES



TRENCHES

Note: The interface between the media and soil layers shall be seperated with a geotextile fabric that exceeds minimum TNRCC req.

JIM FRAZIER

ON-SITE

SEWAGE SYSTEM

by Jerry G. Ince, P.E.

WALKER COUNTY CLASS "A" BUILDING PERMIT

FLOOD PLAIN MANAGEMENT DEVELOPMENT PERMIT

STATE OF TEXAS)
COUNTY OF WALKER)
This Permit No. No 5	928 is issued on 27499 and for a period of 6 months.
This Permit is issued to	+ Theresa Frazier and
is not transferrable, for purpos	e stated below.
improvements, on the follow 2. This Permit authorizes for e	lectrical hook-up, but no construction or im-
provements, on the following	g described property.
Northcate Me	adows w. Brows 11 H-6
(Lot, Block, S	Subdivision, Street Address)
mined that the construction an 100 year flood plain and the pe	
WARNING;	ps and other flood data used by the County in
evaluating flood hazards to prop and accurate for regulatory pur- occur and flood heights may be cannot guarantee that your pro Flood Plain Management Regula	posed developments are considered reasonable poses. On occasion greater floods can and will increased by man-made or natural causes. We perty will not flood. Exempting you from the ations does not create any liability on the part of
walker County or any officer or looding and flood damage does	employee of Walker County in the event that coccur.
This department recommends f nches above natural ground.	inished floor slab be constructed12
leceipt_133)	Ruce of Adams
ee \$ 00	COUNTY FLOOD PLAIN ADMINISTATOR

Page: 1

0000000

Permit Number: 19995928 Single Family/Commercial: S Type: B Permit Date: 02/24/

Name Issued FRAZIER, JIM & THERESA Address

Approved: Address Inspected: : HUNTSVILLE City ST Zip TX 77340 Final Apr:

Install Type Installed By Inspected By Maintained By:

Tax ID number: A-6 W. BIRDSELL Abstract Subdivision NORTHGATE MEADOWS

Beds / Desc 4 BDRMS Living Area : Water Source : 2335 SQ PRIVATE WELL Neighbor near:

Location : ROSENWALL RD.

Remarks

Lot: 8 Tract: Lake/River:

Reviewed:

Expires :

Est. Cost: Map Ref:

Acres:

Block:

Section:

Canceled: 00/00/0000

109A

6.88

Day Tele: Flood Pln: NOT IN

00/00/0000

\$85,000

This application is effective for six(6) months.

I certify that the above statements are true and correct to the best of my knowledge. Authorization is hearby given to the Walker County Inspector to enter upon the above described private property for the purpose of lot evaluation and inspection of on-site sewerage facilities. I understand that the apporoval of this application constitutes authorization for construction of the on-site sewerage facility and that a permit to operate the facility will be granted following successful inspection of the installed system which indicates that the system was installed in compliance with this commision's "construction standards for on-site sewerage facilities". I also understand that I must follow the steps set forth by the Walker County Utility Department in order to have an On-Site Sewage Facility installed.

(Signature of Owner)

Draw Map of Location on back side.

Walker County Steps For Installing your Septic System

- #1.) For your benefit, do not pay installer until the county has approved your system.
- #2.) Bring or mail a copy of the Soil Evaluation to the Utility Office.

For Conventional Systems:

- #1) the soil Evaluation results and a preliminary drawing of how your system is to be installed will be required for an Authorization to Construct. The Director has **five (5) business days from receipt of ALL paperwork** to issue the Authorization.
- #2) you or your installer must provide a transit or a Surveyor's Level for the Inspection.
- #3) you or your installer must provide the Rock or Tire Chip tickets **AT THE TIME OF INSPECTION.** For 8" Gravelless pipe, if sand is require for the backfill, the receipts for the sand will be provided at the time of the inspection.

For Aerobic, Low Pressure Dosing, etc.:

- #1) you <u>must</u> hire a licensed Installer to install this system. The manufacturer of the system they will be installing must also license the installer.
- #2) A design (by a Registered Sanitarian or Professional Engineer), Affidavit to the Public (Signed, notarized and filed with County Clerk's Office) and 2 year Maintenance Agreement between your Installer and yourself, and a Soil Evaluation are required in order to issue and Authorization to Construct. The Director has **five** (5) business days from the receipt of ALL paperwork to issue the Authorization.

Inspections are set up **24 hours in advance**. If your have hired an installer to put in the system, they will have to call for the inspection. Inspections <u>will not</u> be scheduled for Holidays in which the Courthouse is closed, or on weekends. If an inspection is called in Friday morning, the inspection will be set up for Monday. If a Holiday falls 24 hours from the time the inspection is called in, it will be scheduled for the next available day and time. <u>THERE ARE NO EXCEPTIONS</u> **TO THIS RULE**.

Be aware that there will be a \$200 fine per day of usage for a System that has been installed without previous county approval. (Usage meaning flushing toilet, taking baths, etc.)

I understand the preceding procedures of the County and by signing, I acknowledge the receipt of this form.

Signature of Applicant/Owner

CERTIFICATE OF COMPLIANCE

for Utility Service

This Permit Was Issued On 02/22/99

This Certificate is issued pursuant to Section 202 of the City of Huntsville Development Code to certify that at the time of issuance the permit and plat has been reviewed and approved for utility service by the City's Planning Officer.

PROPERTY LOCATION: ROSENWALL ROAD - ETJ

SUBDIVISION: NORTHGATE MEADOWS

LOT #: 8
BLK #: 2

EXISTING USE: RESIDENTIAL

PROPERTY OWNER; JIM OR THERESA FRAZIER

ADDRESS: P.O. BOX 331

CITY: HUNTSVILLE

STATE: TX

County Approved: _

ZIP: 77340

Remarks: APPROVED SILED AND RECORDED SUBDIVISION

Approved By: Planning Officer, City of Huntsville

NOTE: Any unauthorized additions, alterations or development will void this certificate. Alternatively, this certificate expires 180 days from date issued.