Site Evaluation: Building Application: Drainage Plan: Floodplain Information:	Health District OSSF I City/County Building Water Well Permit	
CR 3021	Received 215-17 VESTON COUNTY HEALTH DISTRICT ON - SITE SEWAGE FACILITY JICATION AND INSPECTION REPORT	0N9708 E-MAILED 3-13-17
1. PROPERTY OWNER'S NAME: 2. PERMANENT MAILING ADDITION: 3. TELEPHONE NO. DURING DATE: (STREET) 5. PROPERTY DESCRIPTION: I Lot Size: 100 X/4/2 PROPER 6. SOURCE OF WATER:Priv. 7. SINGLE FAMILY RESIDENCE 8. ESTIMATED MAXIMUM DATER: SAVING DEVICES I 9. COMMERCIAL/INSTITUTION NO. OF EMPLOYEES/OCCUP 10. IS AN ORGANIZED SEWAGE	RESS:	on: Bhe Water Adds #2 JLD BE ATTACHED. Supplier) ER WEEK: NO ed: Yes No R.S. 3207
II. TREATMENT TANKS: TANK #1 MAT'L CONC #2 #3 #4 III. SITE EVALUATION NOTE: Information worksheet Soil Class/Texture Performed By Garry Gana IV.DISPOSAL AREA TYPE EXCAVATION WIDTH TYPE/SIZE OF MEDIA TYPE OF BARRIER	must be attached for review to be completed. Load Rate	474 SIZE 500 gals 38 201 632 fr 3

V. PLOT PLAN

NOTE: This information must be attached for review to be completed.

1.Submit two (2) copies of the Galveston County Health District OSSF Application & Inspection Report. The plot on the above mentioned form must include:

- a. Size and shape of lot or property,
- b. All structures on lot such as buildings, barns, pens, etc,
- c. Size and location of treatment tank(s),
- d. Size and location of wastewater disposal area,
- e. Distance of treatment tank(s) from house, property line, water well and wastewater disposal area,
- f. Distance of wastewater disposal area from house, property line, water well and treatment tank(s),
- g. Distance and direction to closest neighboring water well from treatment tank(s) and wastewater disposal area,
- h. Distance and direction to closer open water such as ponds, lakes, streams, etc.

MARS	3207	2-13-17
DESIGNERS SIGNATURE	REGISTRATION NO.	DATE

This notice must be read and signed before these construction plans will be approved. AFTER APPROVAL A BUILDING PERMIT MUST BE SECURED FROM THE APPROPRIATE COUNTY OR CITY BUILDING INSPECTION DEPARTMENT. The final inspection is to assure the system has been constructed according to the submitted plan and is consistent with good public health engineering practices. The acceptance of this plan and the approval of the final inspection, however, should not be construed to mean that the Galveston County Health District recommends, approves, certifies or guarantees On-site Sewage Facility Systems or their satisfactory performance. In the Galveston County area, due to the high water table, variation of water usage, soil and climatic conditions, On-site Sewage Facility Systems may not function satisfactorily at all times. This plan meets all State and local rules and laws including distance requirements.

Property Owner

HEALTH	DISTRICT USE ONLY			
*Authorization to Construct Approved Disapproved by Inspection Requested by	A. Whin DR#	057108	_Date_ Date	3-13-17
Date inspection requested for		Time	_	am/pm
Date inspection made		Time	1.00	am/pm
Construction Approved/Disapproved by	DR#		Date	
Disapproval notice given to		Date		
REMARKS:				

^{*} Authorization to construct is valid for 1 year from the date of approval. After 1 year, a new application must be submitted along with a new application fee before the OSSF may be installed.

Water main was located using BPSUD provided maps and is greater than 10 ft from any part of the OSSF. All water lines must be 10 ft from any part of the OSSF. Installer must call for Utility Provider to mark main prior to digging.

= soil test site by Site Evaluator

= vacuum breaker

This property does lie within the 100 year floodplain

This property exhibits less than 1% slope across its entire area

toe of mound

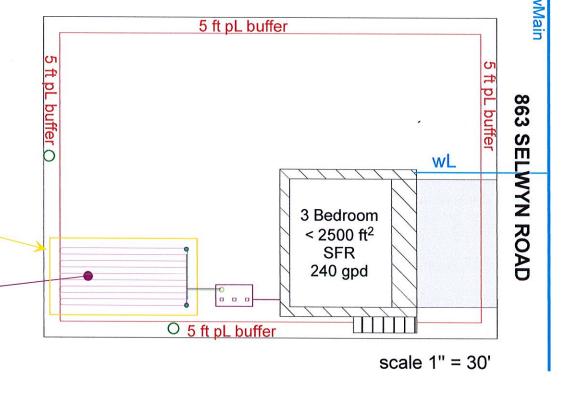
5 Lines at 80 feet each

Note:

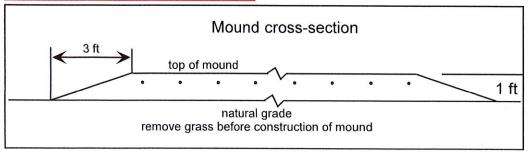
The OSSF drainfield is to be completely sodded by the property owner prior to operation of the system

Note:

The OSSF drainfield is a
12 inch high mound of class Ib
loamy sand. Prior to construction
of the structure, it is required that
the footprint of the structure be
filled with the same amount of soil
to prevent drainage problems







PROPOSED OSSF DESIGN

PROPERTY OWNER: Mike Stackpoole

SITE ADDRESS: 863 Selwyn Rd

Crystal Beach, Texas

LEGAL DESCRIPTION: Lots 262 & 263, Blue Water Addn #2

DESIGN PERAMETERS:

Structure: 3 Bedroom, < 2500 ft² SFR w/ WSD

Daily Flow:240 gallonsApplication Rate:0.38 gal/ft²/day

Area Required: $\underline{632 \text{ ft}^2}$ Area Designed: $\underline{800 \text{ ft}^2}$

AEROBIC TREATMENT UNIT

Pre-treatment Tank (Trash Tank): integral of Aqua Klear AK5B1
Treatment Unit (Aerobic): Aqua Klear AK6BESIDE3 or equal

Pump Tank: 502 gallon; integral of Aqua Klear AK6BESIDE3

Pump: Meyers 2 NFL or equal Geoflow AP4E100 or equal

Supply Manifold:1" sch 40 pvcReturn Manifold:1" sch 40 pvc

Drainfield: 400 linear feet of Geoflow

of Emitters per zone: 200 emitters

Emitter Flow Rate: 0.53 GPH @ 20 psi
Flow per Hour per Zone: 106 GPH (1.8 GPM)

Vacuum Breaker: 2 per zone
Flow Alternator: Not Required

Timer: required (On 10 minutes, Off 50 minutes)

Gallons per Dose: 18

Disinfection: Not Required

Depth of Installation: 6" beneath top of mound

IRRIGATION AREA:

- 1. The homeowner shall be completely sod the irrigation area with St. Augustine or native grasses. Grasses shall be cut as needed to promote healthy, normal growth.
- 2. Plants intended for human consumption shall not be grown inside the irrigation area.
- 3. No surface improvements shall be constructed or placed inside the irrigation area or the future reserve area.
- 4. Area shall be graded to promote positive drainage and surface water runoff.

MAINTENANCE:

A maintenance contract shall be maintained for the life of the system. The property owner or occupant shall insure that the system is provided with electricity at all times and that the disinfection unit is supplied with chlorine tablets, if required. Any suspected malfunction shall be reported to the maintenance company as soon as possible. The property owner or occupant shall operate the on-site sewerage facility according to the owner's manual.

GENERAL NOTES:

- 1. The Homeowner is responsible for installing ultra low flow plumbing fixtures in the home.
- 2. Garbage disposals should not be used in conjunction with any on-site sewerage facility.
- 3. Grease, cigarette butts, personal hygiene products, and other trash shall be disposed of in the garbage.
- 4. Water conservation measures should be taken to help ensure the proper operation of the onsite sewerage facility.
- 5. Electrical wiring shall be in accordance with the current edition of the National Electric Code.
- 6. Alarm shall be of the Audio and Visual type.
- 7. Pump and alarm shall be on separate circuits.
- 8. Pressure relief/sample valve shall be installed and directed downward inside the pump tank to provide agitation and help prevent extreme septic conditions inside the tank. Pressure relief will also serve to elevate flow for proper filter function.

Special Notes for 100 Year Flood Plain Locations

- 1. All mechanical and electrical components shall be elevated at least 18 inches above the 100 year flood elevation and/or waterproofed.
- 2. All tank openings shall be sealed with RAM=NEK, or an equivalent sealant, to prevent contamination to flood waters.
- 3. Septic and/or Aerobic treatment tanks shall be kept filled with sewage to prevent flotation. Pump tank is integral to the aerobic treatment unit and will not pose a floatation problem if the pretreatment and aerobic treatment tanks are kept full of fluid.
- 4. This system, if installed and operated in accordance with this plan and State and Local rules and regulations, should not present a hazard to public health, or threaten adjacent water wells during flooding.

<u>PUMP TANK DESCRIPTION</u>: (Timed Pumping)

502 Gallon Pump Tank

Volume:

502 gallons

Dimensions:

depth below inlet

50.5"

gallons per inch

9.9

Float Settings (from bottom):

Static Volume:

158.4 gallons

pump off

16.00"

Dosing Volume:

18.0 gallons

pump on

minimum tether, timer controlled

Reserve Capacity:

153.0 gallons

alarm on

43.50"

psi / hd-ft required

Total of 1" sch 40 PVC pipe

Flow

Friction Loss due to pipe

Friction Loss including elbows & joints

Depth of tank

Total Head Required

Pump Required

20 / 46.2

100 ft. max.

1.8 gpm

5.47 hd-ft./100ft.= 5.47 hd-ft.

 $5.47 \text{ hd-ft.} \times 1.2 = 6.6 \text{ hd-ft.}$

6 feet

58.8 feet @ 1.8 gpm

Meyers 2 NFL or equal

This system is designed to treat and dispose of up to <u>240</u> gallons/day. If the system is overloaded or not properly maintained, the designer is not responsible. Assumed loading rates are outlined on Calculation page, if these are exceeded; additional plant capacity, disposal area, etc. will need to be added by the owner at his expense. This system must be installed and maintained in accordance with all standards set by the Texas Commission on Environmental Quality and Local Authorities. This designer does not represent or warrant the material, installation, operation or proper performance of this system for any period of time. Every attempt has been made to accurately depict the location of lines, plant, tanks, sprinklers, etc. Construction realities may necessitate minor design changes. Any major changes will be submitted prior to construction.

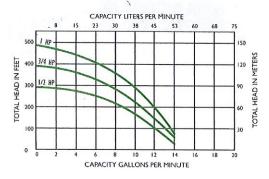
Seal



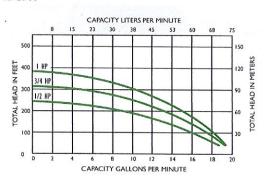
Garry Gana, R.S.

2NFL AND J-BE SERIES PERFORMANCE

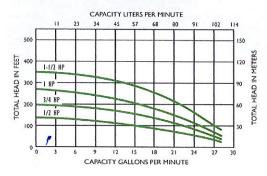
8 GPM



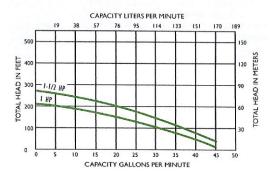
12 GPM



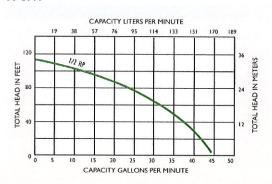
20 GPM



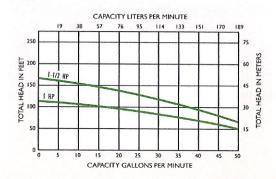
25 GPM



30 GPM



35 GPM



Site Evaluation Form

Date: Stark poole		
Client:	Add	ress:
Phone:	City, State Z	ip:
Legal Description:		
Site Address: 843 Se	luga Rd	City/Area:
Subdivision: Blue Woke	Adds 42	Sec:LAZAbBlock:
Survey:		Abstract No.:
Property Size: 100 X/	42	Acre9:
Existing or proposed structur	re to be served:	Bed
	TOPOG	RAPHY
Slope:	10100	KAI II I
Flat: (under 2%)	Slight: (Under 4%)	Severe: (Over 5%)
Vegetation:		
Grass/Brush:	Lightly Wooded:	Heavily Wooded:
Site Drainage:		
Poor:	_ Adequate:Good:	Other:
Note: If slope is severe a <u>To</u> site drainage is poor or slope	is flat then a detailed drainag	ntours should be provided with this form on the design. It ge plan should be provided on the design.
		HAZARD
Property is located:		
Outside 100 year flood plain:		
In 100 year flood plain:	$\not\!$	
In 100 year flood plain and flo	oodway:	

Note: Attach a FEMA Flood Insurance Rate Map (FIRM) with property location identification or current survey with Flood Plain determination. Systems installed in flood plain must address tank floatation concerns.

SOIL EVALUATION

(Based on at least two soil borings or two backhoe pits at opposite ends of the soil absorption area)

Profile Depth	Texture(USDA)	Color
	16	Jan
(Minimum dept	h is two feet below proposed	excavation)
Profile Depth	Texture(USDA)	Color
	5gme	
(Minimum dept	h is two feet below proposed	excavation)

Note: Location of bore holes must be shown on design or on a separate sheet of paper.

EFFLUENT LOADING DETERMINATION

Gallons per day per square foot		
Ia/Gravelly Soil >30% Gravel	Too great for consideration	>0.5
Ib/ Sandy soils with < 30% gravel		0.38
II/ Sandy loams/loams		0.25
III/ Sandy clay/clay loams		0.20
IV/ Clay/silty clays	Unsuitable	0.10
Indication of seasonal water table:	Depth per field evaluation:	611
	RUCTURE soil structure analysis performed	
Soil structure is:		
Massive:		
Blocky:		
Platy:		
% Gravel $\sqrt{\underline{\mathcal{O}}}$		
Note: Massive and platy soils are considered unsuitable w	rith respect to structure.	
FINI	DINGS	
Is soil suitable for standard subsurface disposal methods?	(Circle one) Yes No	
Wastewater	application rate Q. 38 Gal/da	y/sq. ft.
I, <u>Garry Gana</u> , a registered	Site Evaluator	
did personally conduct the site evaluation on	2-11-17	•
I certify that these results are true and correct for the prop	Site Evaluator	2
	Registration Number	
	TO EIGH AUTON TAUTING	

TWO YEAR INITIAL SERVICE POLICY FOR AN ON SITE SEWAGE FACILITY TREATMENT SYSTEM

Michael Stackpoole POBOx 2326 Crystal Beach, TX77650

Brand Name: Aqua Klear

Located: 863 Schuyn Rd
Crystal Beoch, The 77650

Serial Number

Model Number: AK 500

Gulf Coast Aerobic Services, will inspect and service your Aqua Klear, Aerobic System once every 4 Months for a period of two year from the date that this OSSF is first used at no additional charge to the customer as required by state guidelines dated June 13, 2001. For a new single family dwelling, this date is the date of sale by the builder. For an existing single family dwelling this date is the date the notice of approval is issued by the permitting authority.

Before this initial two year service policy expires, the owner of this OSSF is required to have a new maintenance contract signed. A copy of the new contract shall be submitted to the permitting authority at least 30 days before the current contract expires. If the property owner or maintenance company desire to discontinue the maintenance contract, the maintenance company shall notify, in writing, the permitting authority at least 50 days prior to the date service will cease. If a maintenance company discontinues business, the property owner shall within 30 days of the termination date, contract with another approved maintenance company and provide the permitting authority with a copy of the newly signed management agreement

Testing and Reporting

Gulf Coast Aerobic Services shall test and report on this system as required by rule on the following:

- 1. An Inspection/Service Call every 4 Months, which includes inspections, adjustment, and servicing of the mechanical and electrical component parts as necessary to ensure proper function.
- As effluent quality inspection every 4 Months, consisting of a visual check for color, turbidity, scum overflow and an examination for odors.
- A sample shall be pulled from the agration tank every 4 Monta's, to determine if there is an excess of solids in the treatment plant. If the test results determine a need for solids removal, the user will bear the cost and responsibility for doing so.
- 4. If any improper operation is observed which cannot be corrected at the time, the user shall be notified immediately in writing of the conditions and the estimated date of correction.
- 5. It required, a chlorine residule test will be taken at each visit (BOD and TSS annually on commercial only.) If a grab test is required the Owner will be responsible for the cost of the grab test.

The owner is responsible for keeping chlorine (calcium Hypochlorite properly labeled for wastewater disinfection) in the chlorinator 25 well as the cost of the chlorine.

Michael P. Robinson, who has been certified by the manufacturer of your system and will be responsible for fulfilling the requirements of this Maintenance Contract, as well as responding to any complaints and/or addressing any concerns by the owner of the system. Concerns and/or complaints will be addressed within 2 Business Days of the initial contact. Upon expiration of this service policy, our firm will offer a continuing service policy as mandated by State regulations.

VIOLATIONS OF WARRANTY including shutting off the electric current it the system for more than 24 hours, disconnecting the alarm system. restricting ventilation to the aerator, overloading the system above its rated capacity, or introducing excessive amounts of harmful matter into the System, or any other form of unusual abuse.

This Policy Does Not Include Pumping Sludge From Unit If Necessary.

The Service Company and the Owner agree to abide by the service policy as stated above.

Maintenance Co.:

Gulf Coast Aerobic Services 13205 HWY. 6, P. O. Box 1684 Szata Fe, TX 77510 (40%) 925-2534

Permitting Authority:

Galveston County Health District 1207 Oak P. O. Box 939 La Marque, TX 77568 (409) 938-2411

Manufacturer

Agua-Klear

Distributor Texas Pre-Cast 18303 Hwy. 6 P. O. Box 1525 Santa Fe, TX 77510 (409) 925-2502

Installation Co.

Gulf Coast Aerobic Services P.O. Box 1684 Santa Fe, TX 77510-1684 (409) 925-2534

Installer.

Michael P. Robinson License Number: OS 6955

(409) 925-2534

PAerobic Ser

Service Company Operator License Number: OS6955

that I made server in agent was printerious & Tital bidy Guill Cost. Acrebic Services, Michael F. Robinson, operator using CASST has a

Affidavit to the Public

THE COUNTY OF GALVESTON STATE OF TEXAS

AFFIDAVIT

According to Texas Commission on Environmental Quality Rules for On-Site Sewage (OSSFs) Facilities, this document is filed in the Deed Records of Galveston County, Texas.

I

The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission on Environmental Quality (commission) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), §5.012 and §5.013, gives the commission primary responsibility for implementing the laws of the State of Texas relating to water and adopting rules necessary to carry out its powers and duties under the TWC. The commission, under the authority of the TWC and the Texas Health and Safety Code, requires owners to provide notice to the public that certain types of OSSEs

are located on specific pieces of property. To achieve this notice, the commission requires a recorded affidavit Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This recorded affidavit is not a representation or warranty by the commission of the suitability of this OSSF, nor does it constitute any guarantee by the commission that the appropriate OSSF was installed.
II
An OSSF requiring a maintenance contract, according to 30 Texas Administrative Code §285.91(12) will be installed on the property described as (insert full legal description and full location address): 863 Selwyn Rd., Crystal Beach, TX 77650 Lots 262 +263, Blue Woter Addiv #2, Galvestan County, Texas
The property is owned by $M_i chae Stack poole$ (insert owner's full name)
This OSSF shall be covered by a continuous service policy for the first two years. After the initial two-year service policy, the owner of an aerobic treatment system for a single family residence shall either obtain a maintenance contract within 30 days or maintain the system personally under the guidelines of the regulatory authority.
Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF may be obtained from the Galveston County Health District.
WITNESS BY HAND(S) ON THIS // DAY OF February, 2017. Millstaffel
(Owner(s) signature(s))
sworn to and subscribed before me on this <u>have bluary</u> ,

Notary Public, State of Texas

Notary's Printed Name: Gany Gang
My Commission Expires: May 01, 2017

GARRY GANA Notary Public, State of Texas Comm. Expires 05-01-2017 Notary ID 126887440

FILED AND RECORDED

Instrument Number:

2017010221

Recording Fee: 26.00

Number Of Pages:

2

Filing and Recording Date: 02/15/2017 10:10AM

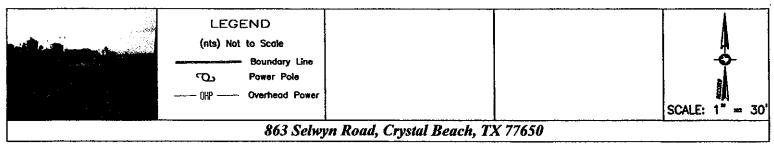
I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of Galveston County, Texas.

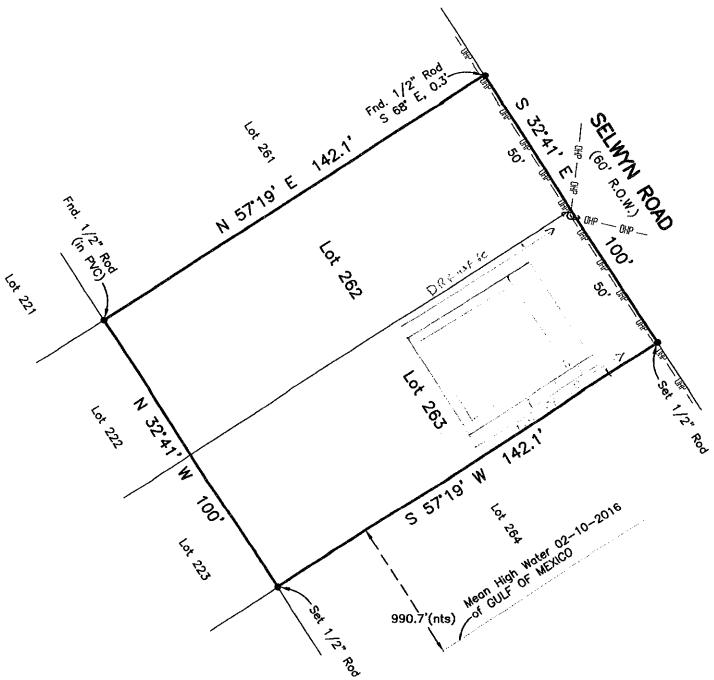


Dwight D. Sullivan, County Clerk Galveston County, Texas

NOTICE: It is a crime to intentionally or knowingly file a fraudulent court record or instrument with the clerk.

DO NOT DESTROY - Warning, this document is part of the Official Public Record.





Survey of Lots Two Hundred Sixty-Two (262) and Two Hundred Sixty-Three (263) of BLUE WATER ADDITION NO. TWO (2), a subdivision in Galveston County, Texas, according to the map or plat thereof recorded in Volume 254-A, Page 75 and transferred to Plat Record 3, Map No. 31, both of the Map Records in the Office of the County Clerk of Galveston County, Texas.

I hereby certify that on the below date, the herein described property, together with improvements located thereon, was surveyed on the ground and under my direction, and that this map, together with dimensions as shown hereon, accurately represents the facts as found on the ground this date.

(Builden

049708

County of Galveston

Building Permit Application

Flood Map Panel 123 Flood Map Date 7.5.93 Date 1-31-17
Flood Zoose V19 Required Blevation. 114 Permit #
Location of Building (Address) 863 Secury
C.B AX 77610
Type of Improvement Non Residential Residential Hew Addition Afteration Repair M. Home RV Storage Detached Storage Deck Site Work Other
Value: Sq Ft 1360 * Cost per Sq Ft = Improvement Value 40 800
Deuk Sq Ft 1/84 "Cost per Sq Ft = Improvement Value 13800
CANNOE Sq R 429 * Cost per Sq R = Improvement Value 5 363
Fee: Total Fee 25 1 135 = 160 Total Value 5 9 9 43
FoundationSlab
Water Supply Public Private Sewage Disposal Public Private
IRC (if applicable):As published on May 1, 2008Current City of Galveston
Number of Bedrooms Sumber of Bathrooms Full 3 Half
Owner: Marie: MIKE STACKPOOLE Phone II- Address: POBOX 1586 CBTX 77650
Authorized Agent Hame: 1+BTS ARON NATICE Phone 1 214 914 51 40
Address: PB BOX (297 CB 7x 77630)
I hereby authorize.
application and to furnish, upon request, suppliemental information in support of this permit application [13/17]
Signature of Owner Date
MICHAGISTACIS POULE Normer or Authorized Agent) agree to the conditions
below
to the state of th

I acknowledge areas below required elevation can only to be used for parting, storage or building access-tio mechanical, electrical or plumbing is allowed below the base flood elevation except those specifically approved on the permit. The receipt, acceptance, and/or deposit of a check, money order or any form of payment to the County does not constitute any approval of a permit.

33

I agree on behalf of both myself and on those working on behalf of me that

- There will be no deviation in the work performed from the construction, modifications changes or improvements
 ("improvements") described in this Building Permit Application and shown on the attached plans and specifications
 except as may be authorized in writing by Galveston County acting by and through its Building Inspector prior to
 beginning work on any deviation from the described Improvements,
- Any deviation from the permitted improvements identified by Galveston County is justification for the issuance of a Stop Work Order being issued by the Building Inspector,
- If a Stop Work Order is issued, I agree to immediately cease all work on the Improvements and will, within ten (10) days following receipt of the Stop Work Order, remove or correct any deviations identified by the County Building Inspector,
- I admondedge Galveston County's interest in and responsibility of ensuring compliance with its Building and FEMA Regulations;
- I understand that any deviation in the work performed on the Improvements is a wrongful act causing irreparable injury and presenting imminent harm, for which Galveston County has no adequate remedy at law,
- I further agree that Galveston County's tack of an adequate remedy at law justifies imposition of a temporary restraining order and a temporary injunction issued against me to bar any further work under the Building Permit pending resolution of the do-pute between Galveston County and me,
- In the event that Galveston County fires suit seeking injunctive and/or other rebel, I hereby submit to the jurisdiction
 of the State District County exercising jurisdiction in Galveston County and agree to the issuance of such temporary
 restraining orders and temporary injunctions as may be required to halt the construction of work on the
 improvements that devote from the Building Permit and
- In the event that Galveston County files so taga ust me I agree to pay the reasonable attorneys' fee, court costs and
 other expenses incomed by the County in the prosecution of that suit

I admostedge the property may not have access to an existing improved road that is maintained by the County

I acknowledge it is a violation to begin work before a permit is issued. This is only a permit application-not a permit

Compliance with Galveston County Building Permit Requirements will be strictly enforced.

Agreed: MICHAR STACKIN	ple (Prin	ted Name of Owne	r or Authorized Age	nt)
Date: 1/3//17	20111	,		
Owner or Authorized Agent Signature 400	il steff	Date 1/3/1	1	
Address	Phone	***************************************		
Fee Paid Money Order Check Credit Co	ard Approval/RecR_	189739	1.31.17	