ADDENDUM NO. 2

TO THE BID DOCUMENTS

Tasmania Court Sewer Main Extension

CITY OF HOMER, ALASKA

Addendum Issue Date: November 17, 2021

Bid Submittal Date: November 30, 2021_____

Previous Addenda Issued: 1

Issued By: Janette Keiser, PE

Public Works Director

City of Homer

Notice to Bidders:

Bidders must **acknowledge receipt of this Addendum** by including the Addenda Acknowledgement Form with the bid.

Bidders are required to acknowledge each addenda separately on the Addenda Acknowledgement Form. Any bids received without acknowledgment of addenda may be rejected prior to evaluation.

The Bid Documents for the above project are amended as follows (all other terms and conditions remain unchanged):

- 1. Changes have been made to the Bid Form.
- 2. Addenda Acknowledgment Form is attached.
- 3. Questions From Bidders.

Question #1: Do you know what type of material the septic tanks are made of and size?

Answer #1: Attached to this addendum are septic tank filings from ADEC records which show the size and material of the septic tanks to be replaced. The ADEC records did not contain any filings for parcel # 17702040 however, it should be assumed that the septic tank for that property is steel unless otherwise notified. We do not know the size of the septic tank on parcel # 17702040

Question #2: DEC allows for septic demolition in place. Pumping, Removal of top, fill with some Lyme and clean gravel and grade over. Is demolition in place acceptable?

Answer #2: Yes, demolition in place is acceptable for this project.

CONSOLIDATED BID FORM

Tasmania Court Water & Sewer Main Extension

Scope A: Tasmania Ct. Water Main Extension.

All of the following Bid Items are for the construction of the WATER MAIN & appurtenances.

ITEM NO.	SPEC NO.	BID ITEM DESCRIPTION – Water Main & Appurtenances	UNIT	QUAN TITY	UNIT BID PRICE	TOTAL BID PRICE
1	101	Mobilization/Demobilization	LS	1		
2	602	Install 8" HDPE SDR11 Water Pipe	LF	940		
3	603	Furnish & Install 8" Gate Valve	EA	3		
4	604	Furnish & Install Single Pumper Hydrant	EA	3		
5	606	Furnish & Install 1" Water Service Connection	EA	11		
6	207	Excavate & Backfill Structural Trench Section for water line	LF	593		
7	207	Excavate & Backfill Non-Structural Trench Section for water line	LF	752		
8	102	Construction Survey	LS	1		
9	221	SWPPP Implementation	LS	1		
10	103	Traffic Control	LS	1		
11	702	Furnish & Install Geotextile Fabric	SY	600		
12	602	Furnish and install 12" HDPE SDR11 Water Pipe	LF	562		
13	603	Furnish and install 12" Gate Valve	EA	1		
14	503	Furnish and Install ARV Manhole	EA	1		
15	603	Furnish and Install 2" ARV Assembly	EA	1		

Total Bid for Scope A - Water Main: \$_____

Scope B-1: Tasmania Ct. Sanitary Sewer Main Extension

All of the following Bid Items are for the construction of the SEWER MAIN & appurtenances, but not including the installation of the E-One Grinder Pumps.

ITEM NO.	SPEC NO.	BID ITEM DESCRIPTION – Sewer Main & Appurtenances	UNIT	QUAN TITY	UNIT BID PRICE	TOTAL BID PRICE
1	502	Furnish & Install 8"DIP Class 50 Sewer Pipe	LF	1276		
2	518	Furnish & Install 16" HDPE SDR11 Casing	LF	49		
3	503	Furnish & Install Sewer Manhole	EA	2		
4	508	Furnish & Install Cleanout	EA	3		
5	510	Furnish & Install Sanitary Sewer Service Stub-out	EA	9		
6	518	Furnish & Install Pressurized Sewer Service Stub-out	EA	2		
7	207	Excavate & Backfill Structural Trench Section	LF	869		
8	207	Excavate & Backfill Non-Structural Trench Section	LF	723		
9	704	Furnish & Install 2" Thick Insulation	BOARD FOOT	48		
10	516	Remove & Dispose of Existing Septic Tank	EA	5		

Total Bid for Scope B-1 - Sewer Main: \$_____

Scope B-2: Tasmania Ct. Sewer Main E-One Service Connections

All of the following Bid Items are for the construction of the E-One Grinder Pumps on private property.

ITEM NO.	SPEC NO.	BID ITEM DESCRIPTION	UNIT	QUAN TITY	UNIT BID PRICE	TOTAL BID PRICE
1	712	Furnish & Install E-One DH071 Grinder Pump	EA	2		
2	502	Furnish & Install 1.25" HDPE SDR11 sewer service pipe	LF	300		
3	220	Excavate & Backfill Asphalt Pavement Trench Section	LF	20		
4	207	Excavate & Backfill Non-Structural Trench Section	LF	280		
5	516	Remove & Dispose of Existing Septic Tank	EA	2		

	Total Scope B-2 – E-1 Grinder Pumps on Private Property: \$	
	Consolidated Bid Amount - All Bid Items (Scope A + Scope B-1 + Scope B-2) : \$	
Note:	Basis of bid will be the Consolidated Bid Amount.	

Name of Bidding Company	
Address of Bidding Company	
Signature of Company Representative	Date
Printed Name of Company Representative	
Phone#/Email	

ADDENDA ACKNOWLEDGMENT

Project Name:	Tasmania Court Sewer Main Extension Project				
I hereby acknowledge adde	enda numbers:				
	<u> </u>				
	<u></u>				
	<u> </u>				
Name of Firm:					
Signature of Bidder:					
Date:					

This Acknowledgement must be included in the Bid/Proposal for the project if any Addenda are issued or the Bid/Proposal could be considered non-responsive.

Date Received RECEIVED

STATE OF ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION DOCUMENTATION OF CONSTRUCTION

FEB -9 2000

Environmental Conservation					
. GENERAL INFORMATION				· .	
egal Description of the Location		Submitted	by: (Check one)		
Lot 5-A-1 Barnett S	outh Slave S/D		Certified Installer		
Lot 5-A-1 Barnett S Located W/in N 1/2 SE	44 Section 17		Approved Homeown	ar.	
T65, R13W. Seward		×	Registered Engineer	61	
Installer Name:	710101				
Troy Jones			stewater System Serve	·	
_		Single Family. Number of Bedrooms			
Mailing Address		☐ Duple	ex. Number of Bedroo	oms	
		☐ Small	Commercial Facility	With Estimated	
		Desig	n Flow of less than 50	0 GPD.	
II. WATER SUPPLY SYSTEM (Source of Water and Containment (Check all that Apply)	SECTION II IS OPTIONAL)				
Well (Drilled or Driven) Surface (Id	Type of Water Supply System Private Priva	n	Treatment of Water (Check		
Roof Catchment			☐ None ☐	Chlorination Mineral Removal	
Holding Tank Other (Ide	ntify) Public (Serves more that family)	t one	Other.		
Well Data Is the height of the well casing more the 12" at	bove the ground?		☐ Yes	□ No	
Is a sanitary seal or well cap installed on the w	ell casing?		☐ Yes	□ No	
ls drainage directed away from or around the o	asing within a radius of 10 feet of the well	casing?	☐ Yes	□ No	
Is well wire enclosed in conduit?			☐ Yes	□ No	
Date Drilled Depth of Well (Feel) ?	Static Water Level (Feet) -	?	Yield (If available) 7	Pump Rate (If available)	
Separation Distance from the Well Casing to each of the Follo	owing Sources of Contamination:	-	1		
Septic/Holding Tank on Lot	ewer Lines on Lot	۸ .	Absorption Area on Lot	190 Fee	
Closest Septic/Holding Tank on Adjacent Lot	Closest Sewer Lines on Adjacent Lot	O Fee	Closest Edge of an Absorp		
> 100 Feet Indicate separation distance from toxic materials including fu	el tanks naints lubricants and other	Fee	Adjacent Lot:	> 100 Fe	
petroleum based materials, pesticides, fungicides or herbicide	s to well casing:		On Lot > 100 Fe	et On Adjacent Lot	
Water Sample Taken by: (Name)			Sampler is: Buyer	☐ Engineer	
Address			☐ Banker	Government Official	
Water Sample Results: Attach Copy Satisfac	tory - Date	□ Unsa		Covernment Official	
Comments/Recommendations:	tory Date	U Olisa	tisfactory - Date		
			-		
certify that the above information, and that prov	rided in Section IV, is correct:				
Signature	yped/Printed Name	Title		Date	
William I. traine	William F. Craine	Regis	tered Enginee	2/6/00	
Note: I This parties should be stored by Court II		7	The state of the s		

section should be signed by a Certified installer, Professional Engineer, DEC staff, or Owner/Builder

^{2.} All public water systems must receive ADEC plan approval prior to construction. See 18 AAC 80 State of Alaska Drinking Water

II. WASTEWATER DISPOSAL	Legal Description: J	+ = 1 1 8	44 6 11	a
Type of Wastewater System:		st 5-A-1 B	arnett South	Slope S/D
Septic Tank with Conventional Soil Abso	rption System	☐ Package Treats	ment Plant (requires engine	perad design)
*	Size in Gal	_		ered design)
☐ Other - Specify Type	Ole III Oli		Manufacturer:	
			ite (requires engineered des	ign)
☐ Small Commercial System (< 500 GPD)		astewater Flow of:	Gallons	Per Day (GPD)
Criteria Used to Estimate Daily Wastewa	ter Quantity:			
NEW SYSTEM ☐ REPAIR TO EXI	STING SYSTEM	Certified Installer Inc	stallation Notification Date	
Name of Installer: Tray Jones		Cerdited histarier his	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		57		vember, 1998
	_		n by a Registered Engineer	See attached letter
By Approved Homeowner (attach copy of Septic Tank: Material: Manufactur			nstaller/Installer Number	
Steel Anchovage			Number of Compartmer	nts:
Type of Soil Absorption System:	☐ Deep Trench			
y.			h Seepage Pit	Bed
Soil Type: SP Soil Rating:	Mound	Other, Specify		
- John Maring	150 58 ft/ bedvm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Absorption Area: 3@ 5'	x 50', 750 ft ²
Grading/Size of Distribution Rock: 11/2"		Thickness/Depth of I	Distribution Rock: 1.8	ft
Percolation Test Results, Attach Copy of Report		PercolationTest Perfo	ormed by:	
Minutes per Inch	Sq. Ft. per Bedroom	percolation test results mu	st be sealed/signed by a registered	engineer
.imum Ground Cover Over: Septic Tank	: 4 / Absorption	Area: Y'	Sewer Pipes: 4'	
Cleanout Pipes/Caps Installed: Foundation	n Cleanout: Yes	Septic Tank: Tes	Monitor Tubes: Yes	
List Separation Distances From Septic Tank or	Absorption Area, Which	ever is Closest, to All	Nearby:	
Public Drinking Water Sources Within 200 feet:			ter Sources Within 100 feet	: 150ft
Nearest Water Bodies (see 18 AAC 72.020(b)):		ainege Ditel) Lot Line:	150 ft
Separation Distance from Onlot Sewer Lines to:		king Water Sources:		rces: 150 ft
Separation Distance From Bottom of Distribution		501	> 1.1	/
		1	> 4 Bedrock:	> 6
Separation Distance from Absorption Area to SI Comments/Recommendations	ope exceeding 25%:	N/A		
See attached letter.				
I certify that the above information, and that pro	vided in Section IV is	orrect.		
Signature	Typed/Printed Name		g/Cert No., Inst. No.	Date
William F. Craine	William F. Cra	ine CF4	1950	2/1/10
NOTE: Must be signed by a Certified Installer. Professiona	l Engineer, DEC staff, or App	roved Homeowner. If engi	incering seal dears printed name.	77.57.08
tration number, and is signed, those blocks need not be SEAL	completed for engineered sub	omittals.	Plane Maria	and New Dig
Registered Professional			William	1. tram

Engineer

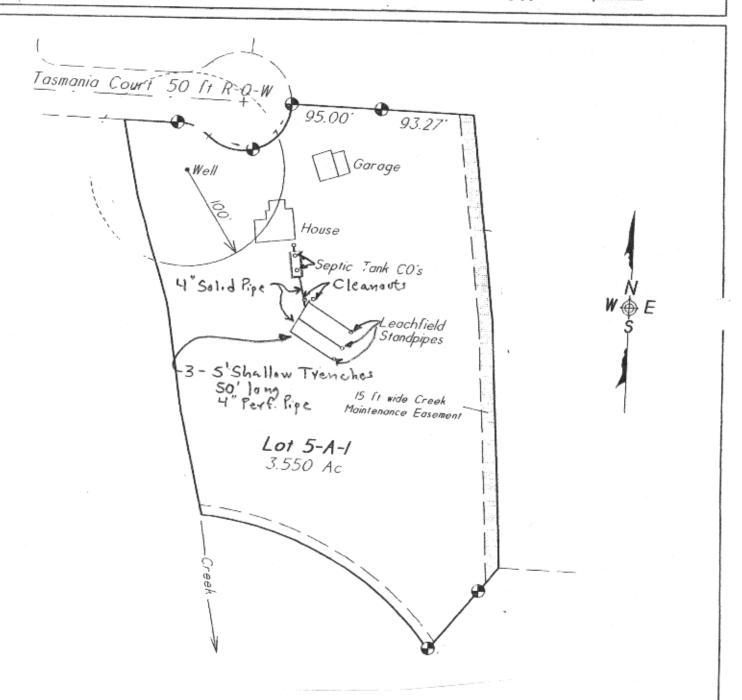
IV. DIAGRAM OF SYSTEM(S) INSTRUCTIONS FOR DIAGRAM

- 1. In a plan view, locate and identify each of the following:
 - a) Well

- b) All Structures
- e) Surface Water
- f) Sources of contamination
- c) Septic Tank g) Property Line
- d) Soil Absorption System

- h) Closest well on adjacent property
- j) Closest edge of an absorption field on adjacent property

- (Include dimensions)
- i) Closest septic tank on an adjacent property
- k) All cleanouts and monitor tubes
- Show distances between the well and each of the sources of contamination listed in 1.
- 3. Show distances between water bodies and each part of the onsite system listed in 1.
- 4. In a cross section view of the soil absorption area, identify each component and show the depth (thickness) of the following:
 - a) Soil Cover
- b) Absorption Material
- c) Water Table
- d) Bedrock
- c) Discharge pipes
- f) Insulation



	Date Rec	eived			
32		ia sayyi	58850156	250 - SES	C54

STATE OF ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

APPLICATION FOR ON-SITE WATER AND SEWER SYSTEM APPROVAL

	MATION	A North		
Legal Description of th	ne Location	AVRIBRIOG BARREL NOVAL	71.5	
100	· · · ·			
1012	, BARNETT	S SOUTH SLOPE	SURD	
LOCA	TED WIT	TIME SECTION	TOUBD.	
2	· LD WITE	THE CIT	TOF HOI	MER, ALASKA
Applicant Name	WILLIAM STATE OF STREET	s, francisk is this kell begre		
JIM &	KAY JULI	A Named Son-year	Applicant is: (Check	one) Certified Installer No.
Address (Street or P. O. Bo	3X)	ERAL DELIVERY	Type of Residence	Total No. of Bodge
City, State and Zip Code HOMER, AK,		TVARBOYA BODAN SAN	Telephone	Multi-Family 3
Send Approval to:	22602		235-	7284 (DM.GIER
Applicant Othe	er: (Give Name & Address)	D.M. GIER & CO. B	OX 3670 HO	MER, AK. 9960:
		Managers to progress of the	100 A 045 - NG 1 1975 - NG	
II. WATER SUPPLY SY	/STEM	the party of the second of the second	- Abort mars in this is 18.	4 To 1 To
Source of Water and Contai	nment (Check all that App	ply) Type of Water Supply System	TOTAL Minus Circumstance	
Well (Drilled or Driven		with the teleser with much country of the	Treatment of Water (C	heck all that Apply)
☐ Roof Catchment	a donnace (Ident(Ify)	Private	None	Chlorination
- <u>建</u>	Other (Identify)	Public (Serves more than one	Filtration	DMinord B
Holding Tank		family)	Other:	Mineral Removal
Well Data		The State of the Control of the Cont	Control of the Marie	The state of the s
Is the Height o	f the Well Casing more tha	an 12" above the Ground?	0.450	
		and disputiti		
		CORRESPONDE DE L'ACTION DE L'A		☐ Yes ☐ No
Is a sanitary se	al installed on the well cas	sing?	A 1 1 2 2 1	Yes No
			<u> </u>	Yes No
		ing? If the casing within a radius of 10 feet o	f the well casing?	☐ Yes ☐ No
ls drainage dire		d the casing within a radius of 10 feet o		☐ Yes ☐ No ☐ Yes ☐ No
ls drainage dire	Depth of Well (Feet)	d the casing within a radius of 10 feet o	rield (If Available)	Yes No
Is drainage dire	Depth of Well (Feet)	d the casing within a radius of 10 feet o	rield (If Available)	Yes No Yes No Pump Rate (If Available)
Is drainage dire	Depth of Well (Feet)	d the casing within a radius of 10 feet o	(ield (If Available) Gal/Min	Yes No Pump Rate (If Available) Gal/M
Is drainage dire Date Drilled Separation Distances from th Septic/Holding Tank on Lot	Depth of Well (Feet)	Static Water Level (Feet)	(ield (If Available) Gal/Min	Yes No Yes No Pump Rate (If Available)
Is drainage dire Date Drilled Separation Distances from th Septic/Holding Tank on Lot	Depth of Well (Feet)	Static Water Level (Feet) Static Water Level (Feet) he Following Sources of Contamination Sewer Lines on Lot	Gal/Min	Yes No Pump Rate (If Available) Gal/M
Is drainage direct Date Drilled Separation Distances from the Septic/Holding Tank on Lot Closest Septic/Holding Tank	Depth of Well (Fast) e Well Casing to each of the control of Adjacent Lot	Static Water Level (Feet) Static Water Level (Feet) he Following Sources of Contamination Sewer Lines on Lot Closest Sewer Lines on Adjacent Lot	Gal/Min Gal/Min Closest Edi	Yes No Pump Rate (If Available) Gal/M
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Septic Tank/Absorption S	- अस्ति जेव		The contract of		member - 1 may - 1			
- Absorption System	J- 1	Package Treatment: (Specify Brand Name or Process)				August Co.		
Holding Tank - Capacity of Tank Specify:	Best files	Where W.	aste is Disposed	j ikatiki kape	20 100	Freq	uency of Pump	adirection of
Septic Tank Outfall Discharged To:			Other	Specify):		1 :	nd om te egset i	
New System	100 Common 100 Aug 5		Outho	use, Incir	erator, etc.)		ा नामान्यको छहा छन्। एक राज्यको स्वकृत्यको	dia world
Name of Installer DUANE BEL	NAP	nes- sala a				Date	Installed	And Europe
Certified Installer No.	Other:		Type/Manufac	turer	C*	101	CEMBE	2198
Septic Tank Size (Gallons) Number o	f Compartments		Soil Type or R	ating	STE	E L		
ype Soil Absorption System	Z Dimension (n)		5W	(125	SQ.	FT. /E	BEDROOM	v)
DEEP TRENCH	Olmensions/Size (4 \(\lambda\) \(\times\) \(\times\)	400	SQ. FT.			antity Back on System	(GRAVEL)	
NOT REOD.	Percolation Test t		9)	27.		, HOUR !	CORN (PP)	
4.0 Feet	m Ground Cover over Si	eptic (Cleanout Pipes. Septic Tank Yes	Caps Ins		Cleanou Absorp	ut Pipes/Caps Ir tion System	stalled on
eparation Water Supply Source on Lot istance to:	Nearest Water Supp	ly Source	on Adjacent		Body of Wa	iter Water T	Yes	No Lot Line
mments/Recommendations . ON SITE SOILS INVESTIG			Feet		. 1 60	ENCON3 18	WINTER FOR	10
SVETERS STEERS	ALLONG WAL	DE AL	DGUST Z	25 , 1	J83.			
SYSTEM DESIGNED	IN ACCURDA	INCE	WITH	FP	A DE	14217	MAN	-
SECTION 7.2.2. AND	7770							
	1 /12 /2	EE A	HDATTA	FD	DMG	ED CC	0 55	E L
ertify that the above information is corre	1 /12 /2	EE A	HJATTA	ED	D.M.G	ER &C	O. DRAY	RINCO)
certify that the above information is corre	ect: Typed/Printed Name	EE P	LITACH	ED	D.M.G	ER &C	O. DRAY	(INC)
pertify that the above information is corre	ect: Typed/Printed Name D.M.GIER	P.E.	Title,	Reg. /Cer	D.M. G	IER & C	Date	NINC)
pertify that the above information is correctly that the above information is correctl	ect: Typed/Printed Name D.M.GIER	P.E.	Title,	Reg. /Cer	D.M.G	IER & C	O. DRAY	NINC)
nature NOTE: Must be signed by a certified Existing System	ect: Typed/Printed Name D.M.GIER	P.E.	Title,	Reg. /Cer	D.M. G	IER & C	Date	NINC)
nature Mark the above information is correctly that the above information is correctly	ect: Typed/Printed Name D.M.GIER	P.E.	Title,	Reg. /Cer	D.M. G	IER & C	Date 12-21	NINC)
NOTE: Must be signed by a certified Existing System	Typed/Printed Name D.M.GIER Finstaller, professional en	P.E.	Title, P.E.	Reg. /Cer	D.M. G	No.	Date 12-21	NINC)
NOTE: Must be signed by a certified Existing System me of Installer Owner/Builder Certified Installer No.	Typed/Printed Name D.M. GIER installer, professional en	P.E.	Title,	Reg. /Cer	D.M. G	No.	Date 12-21	NING)
NOTE: Must be signed by a certified Existing System ne of Installer Owner/Builder Certified Installer No Number	Typed/Printed Name D.M.GIER Finstaller, professional en	P.E.	Title, P.E.	Reg. /Cer	D.M. G	No.	Date 12-21	NINC)
NOTE: Must be signed by a certified Existing System ne of Installer Owner/Builder Certified Installer No Number Number	Typed/Printed Name D.M. GIER installer, professional en	P.E. So	Title, P.E. DEC Staff.	Reg. /Cer	D.M. G. rt. No., Inst. - 5648	No.	Date 12-21	- 83
NOTE: Must be signed by a certified Existing System me of Installer Owner/Builder Tic Tank Size (Gallons) Rumb Ruacy Test Results:	Typed/Printed Name D.M. GIER installer, professional engineer of Compartments Dimensions/Size Soi	P.E. gineer or L So So iii Absorpti	Title, P.E. DEC Staff. ype/Manufactu pil Type or Rati	Reg. /Cer . CE	D.M. G rt. No., Inst 5648 Type/Quan Absorption	Date Ins	Date 12-21 stalled	- 83 for Soil
ertify that the above information is corrected. NOTE: Must be signed by a certified. Existing System The of Installer Owner/Builder Certified Installer No tic Tank Size (Gallons) Numb Soil Absorption System Suacy Test Results: Suacy Test Results: Suacy Test Results:	Other: Dimensions/Size Soi Adequacy Test Perfor	P.E. gineer or L So il Absorpti	Title, P.E. DEC Staff. ype/Manufactu pil Type or Rati	Reg. /Cer . CE	D.M. G rt. No., Inst 5648 Type/Quan Absorption	Date Ins	Date 12-21	- 83 for Soil
NOTE: Must be signed by a certified Existing System The control of the control	Typed/Printed Name D.M. GIER installer, professional engineer of Compartments Dimensions/Size Soi	P.E. gineer or L So il Absorpti rmed By: (A	Title, P.E. DEC Staff. ype/Manufactu pil Type or Ration System Attach Copy of leanout Pipes/Captic Tank	Reg. /Cer. C.E.	Type/Quan Absorption Date Septic	No. Date Ins tity Backfil System Tank Pum	Date 12-21 stalled. Il Material used	- 83
NOTE: Must be signed by a certified Existing System The of Installer Owner/Builder Certified Installer No. To Tank Size (Gallons) Rumb Resoil Absorption System Resoi	Other: Dimensions/Size Soi Adequacy Test Perfor	P.E. gineer or L Ty So iii Absorpti rmed By:(A	Title, P.E. DEC Staff. ype/Manufactu pil Type or Rati dion System Attach Copy of leanout Pipes/Captic Tank Yes	Reg. /Cer. CE	Type/Quan Absorption Date Septic	Date Ins Date Ins Tank Pum Cleanout Absorptic	Date 12 - 21 stalled If Material used ped (Attach Co	for Soil
Retrify that the above information is corresponding to the second of the	Other: Dimensions/Size Soil Adequacy Test Perfor	P.E. gineer or L Ty So iii Absorpti rmed By:(A	Title, P.E. DEC Staff. ype/Manufactu pil Type or Rati dion System Attach Copy of leanout Pipes/Captic Tank Yes	Reg. /Cer. CE	Type/Quan Absorption Date Septic	Date Ins Date Ins Tank Pum Cleanout Absorptic	Date 12 - 21 stalled If Material used ped (Attach Co	for Soil alled on No Lot Line
NOTE: Must be signed by a certified Existing System	Dimensions/Size Soi Adequacy Test Perfor Ground Cover over Sept. Nearest Water Supply Sidest	P.E. gineer or L Ty So iii Absorpti rmed By:(A	Title, P.E. DEC Staff. ype/Manufactu pil Type or Rati cion System Attach Copy of I sanout Pipes/Captic Tank Yes	Reg. /Cer. CE	Type/Quan Absorption Date Septic	Date Ins Date Ins Tank Pum Cleanout Absorptic	Date 12-21 stalled If Material used Pipes/Caps Inston System pic/Bedrock	for Soil
NOTE: Must be signed by a certified Existing System me of Installer Owner/Builder Certified Installer No. Numb Tic Tank Size (Gallons) Numb Tic Tan	Dimensions/Size Soi Adequacy Test Perfor Ground Cover over Sept. Nearest Water Supply Sidest	P.E. gineer or L Ty So iii Absorpti rmed By:(A	Title, P.E. DEC Staff. ype/Manufactu pil Type or Ration System Attach Copy of leanout Pipes/Captic Tank Yes Adjacent Adjacen	Reg. /Cer. CE	Type/Quan Absorption Date Septic	Date Ins Date Ins Tank Pum Cleanout Absorptic	Date 12-21 stalled If Material used Pipes/Caps Inston System pic/Bedrock	for Soil alled on No Lot Line
NOTE: Must be signed by a certified Existing System The of Installer Owner/Builder Certified Installer No. Number Soil Absorption System Area Feet Water Supply Source on Lot and since to: Tents Recommendations Tify that the above information is correct ture	Dimensions/Size Soi Adequacy Test Perfor Ground Cover over Sept Nearest Water Supply So Lot Typed/Printed Name	P.E. gineer or L Ty So iii Absorpti rmed By:(A	Title, P.E. DEC Staff. ype/Manufactu pil Type or Ration System Attach Copy of leanout Pipes/Captic Tank Yes Adjacent Adjacen	Reg. /Cer. CE	Type/Quan Absorption Date Septic	Date Ins Date Ins Tank Pum Cleanout Absorptic	Date 12-21 stalled If Material used Pipes/Caps Inston System pic/Bedrock	for Soil alled on No Lot Line

Dennis M. Gier
SEAL 5648
Registered Professional
SU Engineer

INSTRUCTIONS FOR DIAGRAM

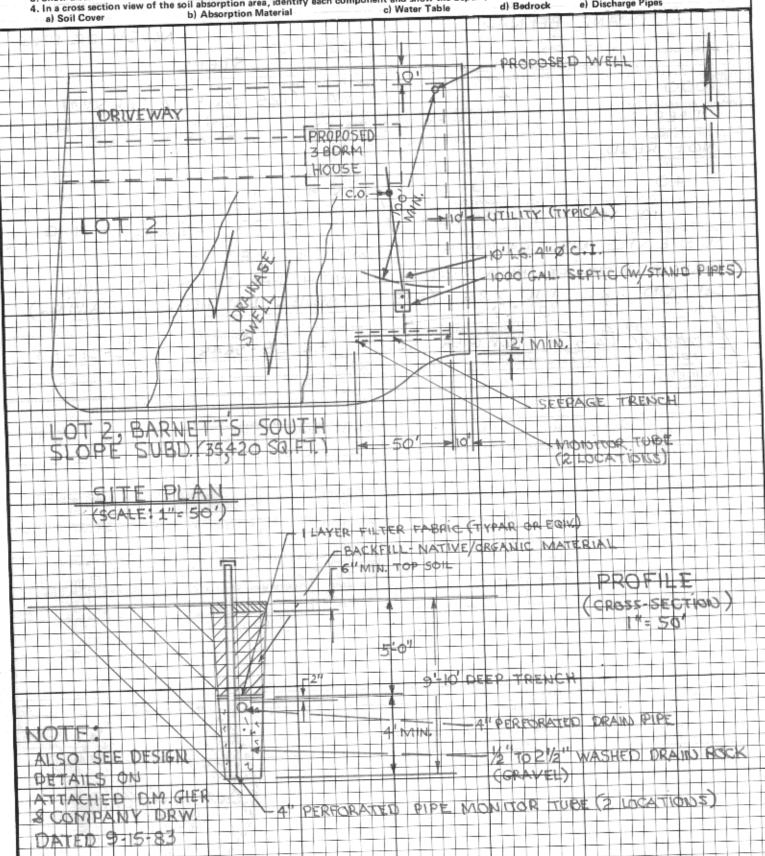
- In a plan view, locate and identify each of the following:
 a) Well
 b) All Structures
 - a) Well

- f) Sources of Contamination
- c) Septic Tank g) Property Line

i) Closest septic tank on an adjacent property

d) Soil Absorption System (Include Dimensions)

- e) Surface Water
- h) Closest well on an adjacent property
 j) Closest edge of an absorption field on an adjacent property
- 2. Show distances between the well and each of the other items listed in 1.
- 3. Show distances between water bodies and each of the other items listed in 1.
- 4. In a cross section view of the soil absorption area, identify each component and show the depth (thickness) of the following: e) Discharge Pipes b) Absorption Material



RECEIVED

Date Received

OCT 2 0 2004

ADEC Kenai Area Office

STATE OF ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION DOCUMENTATION OF CONSTRUCTION

I CENEDAL INFORMATION:	
I. GENERAL INFORMATION Legal Description of the Location	Submitted by: (Check one)
Barnett's South Slope Subdivision	Certified Installer
Block 1, Lot 16	- Approved Homeowner
<u> </u>	Registered Engineer
Installer Name:	Onsite Wastewater System Serves:
Arno Construction	Single Family. Number of Bedrooms
Mailing Address	☐ Duplex. Number of Bedrooms
P.O. BOX 1772	☐ Small Commercial Facility With Estimated
Homer, Al. 99603	Design Flow of less than 500 GPD.
II. WATER SUPPLY SYSTEM (SECTION II IS OPTIONAL)	
Source of Water and Containment (Check all that Apply) Type of Water Supply Sys	tem Treatment of Water (Check all that Apply)
☐ Well (Drilled or Driven) ☐ Surface (Identify) ☐ SF/Duplex	None Chlorination Filtration Mineral Removal
Roof Catchment Other (Identify) Public	Filtration
Well Data Is the height of the well casing more the 12" above the ground?	Yes No
Is a sanitary seal or well cap installed on the well casing?	Yes No
Is drainage directed away from or around the casing within a radius of 10 feet of the we	ell casing? Yes No
Is well wire enclosed in conduit?	☐ Yes ☐ No
Date Drilled Depth of Well (Feet) Static Water Level (Feet)	Yield (If available) Pump Rate (If available)
Separation Distance from the Well Casing to each of the Following Sources of Contamination:	
Septic/Holding Tank on Lot Sewer Lines on Lot	Absorption Area on Lot Feet Feet
Closest Septic/Holding Tank on Adjacent Lot Closest Sewer Lines on Adjacent Lot Feet	Closest Edge of an Absorption Area on Feet Adjacent Lot: Feet
Indicate separation distance from toxic materials including fuel tanks, paints, lubricants and other	On Lot Feet On Adjacent Lot Feet
petroleum based materials, pesticides, fungicides or herbicides to well casing: Water Somple Taken by: (Name)	
Water Sample Taken by: (Name)	Sampler is: Buyer Engineer
Address	Banker Government Official
Water Sample Results: Attach Copy Satisfactory - Date	Unsatisfactory - Date
Attach Copy Satisfactory - Date Comments/Recommendations:	Clisatistacióty - Date
, SS, MARIO 2000 AND 100 AND 1	
I certify that the above information, and that provided in Section IV, is correct:	<u> </u>
Signature Typed/Printed Name	Title Date
William F. Craine William F. Craine	Gred Engineer Oct. 16 '04

Note: 1. This section should be signed by a Certified Installer, Professional Engineer, DEC staff, or Owner/Bailder

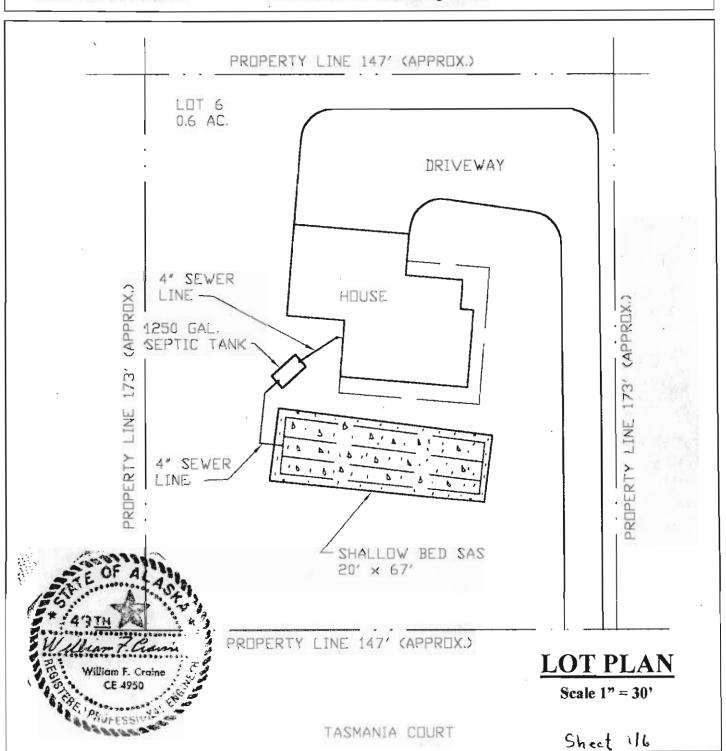
2. All public water systems must receive ADEC plan approval prior to construction. See 18 AAC 80 State of Alaska Drinking Water Regulations for specific requirements.

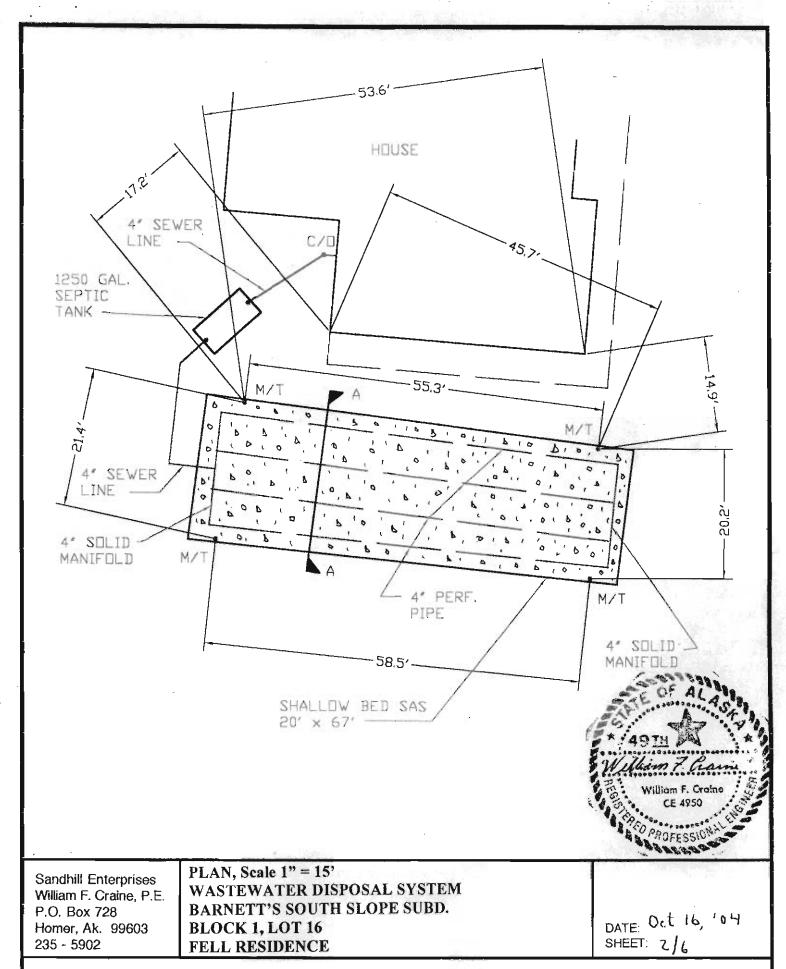
III. WASTEWATER DISPOSAL	Legal Description: 3	arnett's s	South Slape S	Subdivisi	ion
Type of Wastewater System:	B	lock 1, Lot 1	6		
Septic Tank with Conventional Soil Absorpti	on System	☐ Package Treatm	ent Plant (requires engine	ered design)	
Holding Tank: Material Type:	Size in Gallo	ons:	Manufacturer:		_
☐ Other - Specify Type		☐ Alternate Onsite	e (requires engineered des	ign)	
☐ Small Commercial System (< 500 GPD) Wit	h Estimated Daily Waste	water Flow of:	Gallons	Per Day (GPD)	
Criteria Used to Estimate Daily Wastewater	Quantity:				
				· .	
M NEW CYCERC	TO OVOTEN				
NEW SYSTEM MODIFICATION		Certified Installer Insta	allation Notification Date:		2.5000
Name of Installer: Arno Construc			Date Installed: Sep	•	04
System Installed: By a Registered I	_		by a Registered Engineer		
By Approved Homeowner (attach copy of app Septic Tank: Material: Manufactur			staller/Installer Number Number of Compartmen		<u>028</u>
Steel D& W	·		S S S S S S S S S S S S S S S S S S S	115.	
Type of Soil Absorption System:	☐ Deep Trench	☐ Shallow Trench	☐ Seepage Pit	⊠ Bed	
	□ Mound	☐ Other, Specify			- <u>-</u>
Soil Classification: Leam Soil Rating	0,45 5Pd/ft2	Dimensions/Size of Al	bsorption Area: Zo'x 6	7' / 1340	ft
Grading/Size of Distribution Rock: 3/4 "- 1	/z **	Thickness/Depth of Di	istribution Rock: 12 1/	6" to Bat	tim
Percolation Test Results, Attach Copy of Report:		PercolationTest Perfor	med by:		
28.2 Minutes per Inch 333,3	Sq. ft. per bedroom	percolation test results must	med by: Cvarne P. E be sealed/signed by a registered	engineer	
List ground cover in feet over: Septic Tank	Z'+Z'T Absorption	Area 2't 2"I.	Sewer Pipes Z' + Z	<u>"I.</u>	
Cleanout Pipes/Caps Installed: Foundation	n Cleanout: Yes	Septic Tank: Yes	Monitor Tubes: Yes		
Indicate separation distances from septic tank or abs	sorption area, whichever	is closest, to all nearby	<i>'</i> :		
Public drinking water sources within 200 feet:	None	Private drinking water	sources within 100 feet:	None	
Nearest water bodies (see 18 AAC 72.020(b)):	None	Lot line: 40		_	
Separation Distance from Onlot Sewer Lines to:	Public Drink	ing Water Sources: A	Private Sour	rces: N/A	
Separation Distance From Bottom of Distribution R	ock to:	Groundwater Table:	Bedrock:	<u>د ′</u>	
Separation Distance from Absorption Area to Slope	exceeding 25%: N/	.			
Comments/Recommendations					
I"S + 1108'S <= IS +'S	nsula (ion				
I certify that the above information, and that provide	ed in Section IV, is correct				
Signature	Typed/Printed Name		. 1	Date	
William F. Eranis	William F. CYM	ne Civil E	ingineer/CE4950	Oct. 16	'04
NOTE: Must he signed by a Certified Installer, Professional Eng registration number, and is signed, those blocks need not be comp			seal bears printed name	200000	
SEAL			3.0	COS SALES	

Registered Professional Engineer



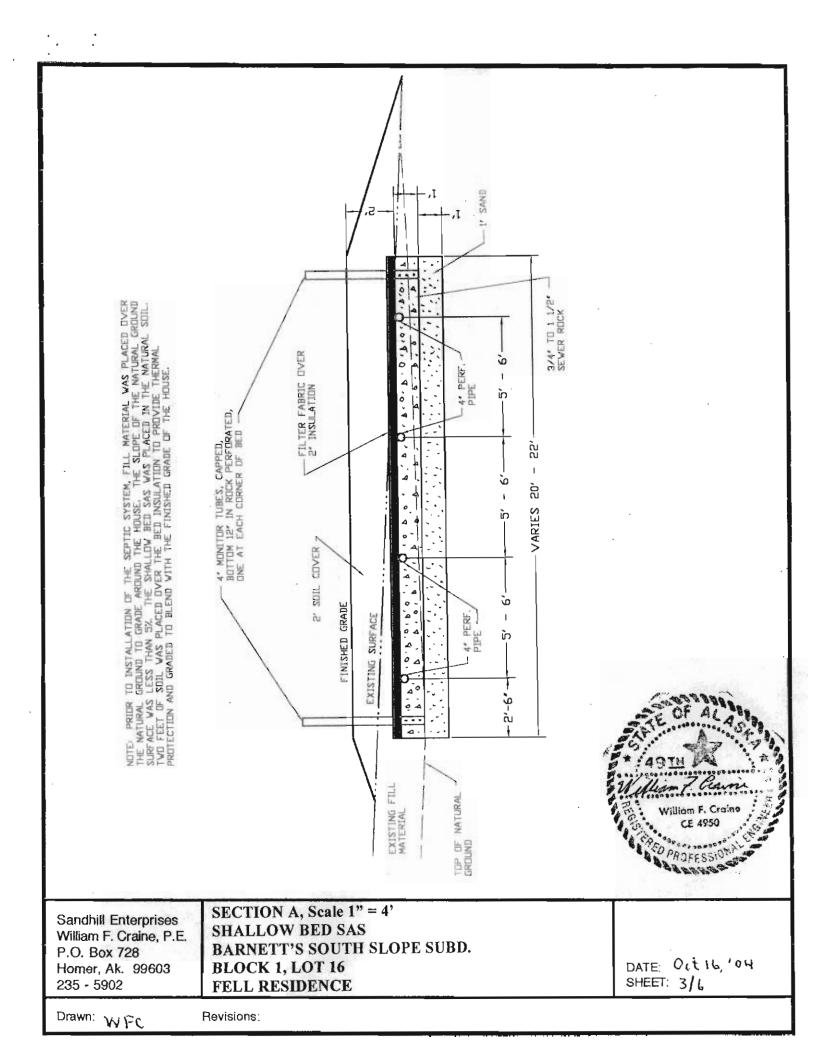
IV. DIAGRAM OF SYSTEM(S) INSTRUCTIONS FOR DIAGRAM 1. In a plan view, locate and identify each of the following: b) All Structures d) Soil Absorption System 🛩 a) Well Nanc c) Septic Tank g) Property Line (Include dimensions) i) Closest septic tank on an adjacent property? e) Surface Water None f) Sources of contamination h) Closest well on adjacent property Nine. j) Closest edge of an absorption field on adjacent property ? k) All cleanouts and monitor tubes 2. Show distances between the well and each of the sources of contamination listed in 1. 3. Show distances between water bodies and each part of the onsite system listed in 1. 4. In a cross section view of the soil absorption area, identify each component and show the depth (thickness) of the following: a) Soil Cover b) Absorption Material c) Water Table + d) Bedrock 6 + e) Discharge pipes f) Insulation

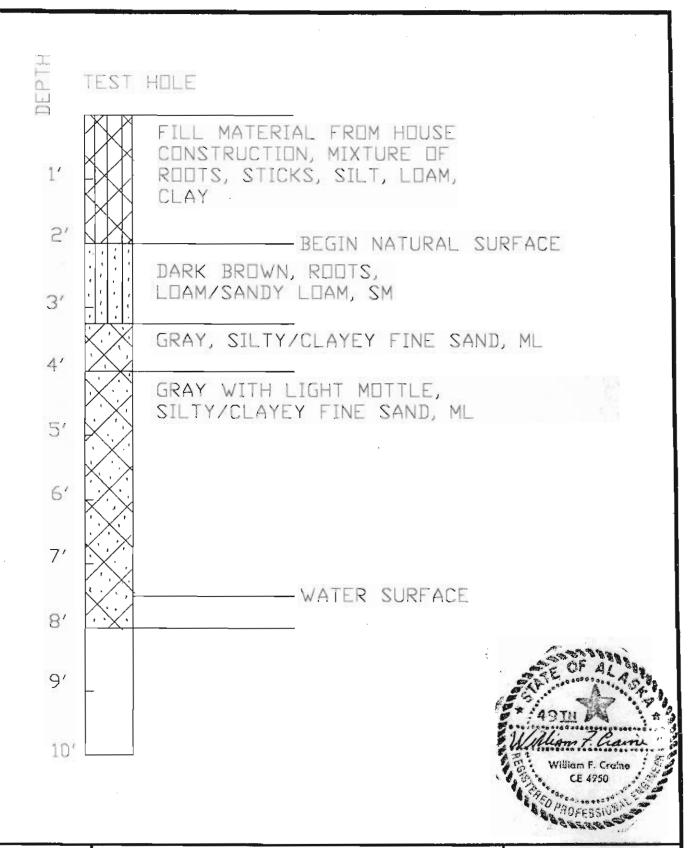




Drawn: W 5°C

Revisions:





Sandhill Enterprises William F. Craine, P.E. P.O. Box 728 Homer, Ak. 99603 235 - 5902 SOIL LOT – TEST HOLE BARNETT'S SOUTH SLOPE SUBD. BLOCK 1, LOT 16 FELL RESIDENCE

DATE: Sept 4, '04 SHEET: 4/1

Drawn: WFC Revisions:

PERCOLATION TEST RESULTS TEST #1

Barnett's South Slope Subdivision Block 1, Lot 16

September 4, 2004

By:

William F. Craine, P. E.

Method:

EPA Falling Head Percolation Test Procedure

Percolation Test, Depth = 1' 10"

Time	Time Change min.	Float Height inches	Float Height Change inches	Perc. Rate min/in
11:01	N/A	25.5625	N/A	N /A
11:31	30	24	1.5625	19.20
11:32	N/A	25.5	N/A	N/A
12:02	30	24.375	1.125	26.67
12:03	N/A	25.375	N/A	N/A
12:33	30	24.3125	1.0625	28.24

Percolation Rate = 28.2 minutes per inch

This test is in the natural soil, not in the fill from the house construction.



Sheet 5/6

PERCOLATION TEST RESULTS TEST #2

Barnett's South Slope Subdivision Block 1, Lot 16

September 4, 2004

By:

William F. Craine, P. E.

Method:

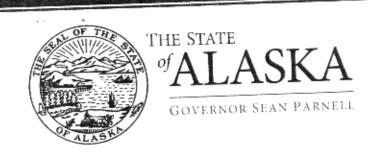
EPA Falling Head Percolation Test Procedure

Percolation Test, Depth = 3' 6"

Time	Time Change min.	Float Height inches	Float Height Change inches	Perc. Rate min/in
11:03	N/A	14.4375	N/A	N/A
11:33	30	14.125	0.3125	96.00
11:34	N/A	14.5	N/A	N/A
12:04	30	14.1875	0.3125	96.00
12:05	N/A	14.5	N/A	N/A
12:35	30	14.1875	0.3125	96.0 0

Percolation Rate = 96 minutes per inch





Department of Environmental Conservation

DIVISION OF WATER Wastewater Discharge Authorization Program

> 43335 Kalifornsky Beach Road, Suite 11 Soldotna, Alaska 99669 Main: 907.262.5210 Fax: 907.262.2294

December 31, 2012

Mr. William J. Marley Jr., Owner C/o Gus Andress, P.E. Pegasus Engineering 4971 Thompson Drive Homer, AK 99669

Re:

Final Approval to Operate an Alternate Wastewater Treatment and Disposal

Legal: Barnett's South Slope Lot 12, Block 1, Homer, Alaska

ADEC Plan Number 9090

FILE COPY

Dear Mr. Marley:

The Department has reviewed the record information received on October 11, 2012 for an alternate wastewater system to serve a six-bedroom single family residence at the referenced property. This wastewater system consists of a 1250-gallon septic tank followed by a BioCycle Model 1500 unit which discharges effluent meeting secondary treatment standards to a pressurized soil absorption system having a total absorptive capacity of 1300 ft2. The maximum approved wastewater flow for this system is 900 gallons per day based on the six bedrooms. Potable water is provided to the residence by means of an onsite cistern.

The information was reviewed in accordance with the Wastewater Disposal Regulations, 18 AAC 72 and the Department's Conditional Approval to Construct letter issued August 27, 2012. Final approval to operate is hereby issued and the enclosed Construction and Operation Certificate constitutes a written approval required under the noted regulations. Any future expansion or modification for the subject project will require additional approval from this office.

This approval does not imply the granting of additional authorizations, nor obligate any federal, state, or local regulatory body to grant required authorizations. This is not an approval of omissions or oversights y this office or noncompliance with any applicable regulation. The Department's approval to operate does not guarantee correctness or the functionality of the design, or waive the owner's responsibility for continued compliance with state regulations.

Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 - 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Division Director, 555 Cordova Street, Anchorage, Alaska 99501, within 15 days of receiving the decision. Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental

Conservation, 410 Willoughby Avenue, Suite 303, Juneau, Alaska 99801, within 30 days of the decision. If a hearing is not requested within 30 days, the right to appeal is waived.

If you have any questions please contact me at 907 262 3405, or by e-mail at Monica. English@alaska.gov.

Sincerely,

Monica T. English

Moneal Eglin

Environmental Engineering Associate

Enclosure:

Construction and Operation Certificate



STATE OF ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION CONSTRUCTION AND OPERATION CERTIFICATE FOR

DOMESTIC WASTEWATER DISPOSAL SYSTEMS

A	APPROV	VAL	TO	CONSTRUCT
---	--------	-----	----	-----------

A. APPROVAL TO CONSTRUCT	
Plans for the construction or modification of	Barnett's South Slope Sub. L12 B1 - BioCycle Model 1500 Treatment System
(ADEC Plan Tracking Number 9090)	domestic wastewater disposal system
located in Homer	, Alaska, submitted in accordance with 18 AAC 72.210
by Pegasus Engineering - Gus Andress, P.E.	t t reviewed and are
approved. conditionally approved (see attached cor	
Monica J. Ggli	Environmental Engineering Associate DATE Environmental Engineering Associate DATE
Monica T. English If construction has not started within two years of the be submitted for review and approval before constru	e approval date, this certificate is void and new plans and specifications must
B. APPROVED CHANGE ORDERS	
Change (contract order number or descriptive refere	nce) Approved by Date
	completed and signed by the Department before this system is made available
for use. The construction of the above reference	domestic wastewater disposal system was completed
on 9/12/2012 (date). The system is hereby	granted interim approval to operate for 90 days following the completion date.
nv.	TITLE DATE
As-built/record drawings, submitted to the Departm wastewater disposal system was constructed in sub- final approval to operate.	nent, or an inspection by the Department, has confirmed that the domestic stantial conformance with the approved plans. The system is hereby granted
Monica T. English	Environmental Engineering Associate 12/31/2012.
	Distribution: 1. Retain original for project file 2. Make copies for distribution

TASMANIA CT. 50' R/W δ, 98.89' WEST PARKING LOT 12 LOT 11 0.67 Ac 3% GARAGE REPLACEMENT S.A.S. 6 BR HOME 3% /3% NORTH C.O. 2 0 ABS RECYCLE BIOCYCLE-MODEL 1500 2 1-1/4" Ø PVC 1250 GAL STEEL PRESSURE LINE 2-COMP SEPTIC TANK 45 161.62 ය 1-1/2" Ø -PVC MANIFOLD -TOE OF MOUND 160.00' EAST 25' x 52' S.A.S. W/8 INFILTRATOR ROWS 2.8' WIDE x 52" LONG W/1-1/4" ϕ PVC PIPE LATERALS, 1/8" HOLES @ 4' O.C. **AS-BUILT**

NOTES

- THERE ARE NO SLOPES GREATER THAN 25% WITHIN 50 FEET OF ANY PART OF THE NEW SEPTIC SYSTEM.
- THERE ARE NO KNOWN CLASS A,B,OR C WELLS WITHIN 200 FEET OF THE NEW SEPTIC SYSEM.
- THERE ARE NO KNOWN PRIVATE WELLS WITHIN 100 FEET OF THE NEW SEPTIC SYSTEM.
- THIS RESIDENCE WILL BE SERVED BY A 2000 GALLON CISTERN AND WILL NOT HAVE A PRIVATE WELL ON THE LOT.

9/20/12



PEGASUS ENGINEERING 4971 THOMPSON DR HOMER, AK 99603 (907)226-2476

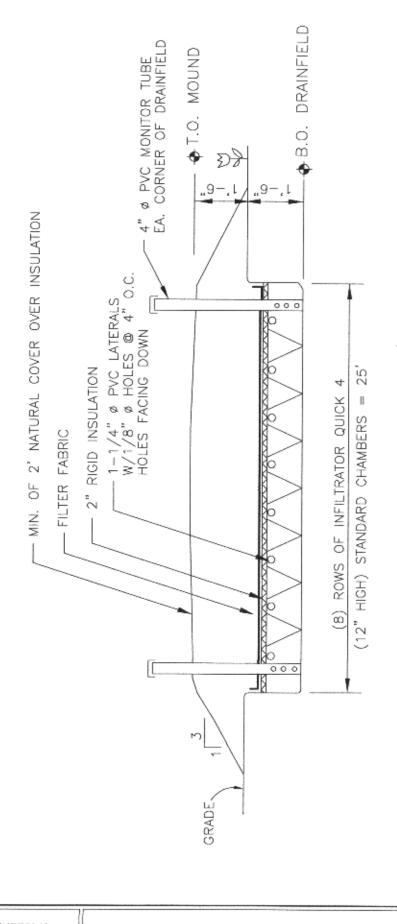
SITE PLAN

MARLEY RESIDENCE

BARNETT'S SOUTH SLOPE SUB, L12,B1 HOMER, AK DATE: 9/18/2012

DWG: MARLEY.dwg

SHEET: SHEET 1 OF 2



AS--BUILT

DRAINFIELD CROSS SECTION

Duane F. Andress CE-4722

PEGASUS ENGINEERING

4971 THOMPSON DR HOMER, AK 99603 (907)226-2476

MARLEY RESIDENCE

BARNETT'S SOUTH SLOPE SUB, L12, B1 HOMER, AK SCALE: NTS

DATE: 6/25/12

SHEET: 2 OF 2

DWG, NAME: MARLEY, DWG.

Date Received

STATE OF ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

582

APPLICATION FOR ON-SITE WATER AND SEWER SYSTEM APPROVAL

E Prom					
GENERAL INFORMATION		340 104 - <u>- 1</u>	.ed		
LOT 14, BLK	South.	Slope,	Subd.		
BAENEII	The military is the second	ran Frakhod, si M			
				.:	
MARY ALICE MAXE	IELD	Applicant is: Bank Supplier Supplier	Certif Builder	ied Install	
dress (Street or P. O. Box)	Her Body in 1997	Type of Resid			Total No. of Bedrooms
BOX 897		M Single Fa	mily 🗌 Multi	-Family	1
y, State and Zip Code		Telephone	z 35-7	7707	
HOMER, ALASKA 9	9603		233-1	101	
nd Approval to:	Language gaded as the comment	21 + 30K \$8 1 / 1			e de la companya de l
▼ Applicant		- Lange allegia			, p
	Light Work and Arthur Laws and	. P. 1995 Sept. 1996	a 3 66 sal	man gire	
WATER SUPPLY SYSTEM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			II abot An	alv)
urce of Water and Containment (Check all that Appl	y) Type of Water Supply System	Treatment of	Water (Check a	in that Api	ery)
Well (Drilled or Driven) Surface (Identify)	Private	None	1. 1. 1000 19	Chlorina	ntion
Well (Drilled or Driven) Surface (Identity)	Private	DEiltration	Filtration Mineral Removal		
Roof Catchment Other (Identify)	Public (Serves more than or	ie - I- Table in in			
☐ Holding Tank	family)	☐ Other:		- 177	
	egister i la Tight i la	a fila bantafitafi	PM 1		
ell Data Is the Height of the Well Casing more tha	n 12" above the Ground?		×	Yes	□ No
Is a sanitary seal installed on the well cas	ing?	and the first of the second	×	Yes	□ No
Is drainage directed away from or around	the casing within a radius of 10 f	eet of the well casin	g? 🔀	Yes	□ No
				ump Rate	(If Available)
Depth of Well (Feet)	1.00		Gal/Min		Gal/Mi
7-2-85 54-	14	tion:	Garranii	P) 12 G 2	
eparation Distances from the Well Casing to each of t	he Following Sources of Contami Sewer Lines on Lot	nation.	Absorption A		
eptic/Holding Tank on Lot	81'+			86'	
Slosest Septic/Holding Tank on Adjacent Lot	Closest Sewer Lines on Adjacent	Lot	Closest Edge of an AbsorptiomArea of		
7 400	7 400'	- the second second	On Lot	P. Branch	On Adjacent Lot
f toxic materials are stored on the property, including based materials, pesticides, fungicides or herbicides, in	g fuel tanks, paints, lubricants and dicate distance from contaminant	s to well casing:	> 2	5	7400'
	and the state of t	96°	Sampler Is:		
JOSEPH CURTIS			Buyer	i hésa I	Engineer .
30000			☐ Banke	r [Government Official
P.O. Box 2248	HOMER, ALASKA	99603	5.R : 3	ogeri Vereil	
Vater Sample Results: Satisfactory - Date:	The Total	nsatisfactory - Date:		196	
Comments/Recommendations: APPUCANT ADVISED TO ADD	FILL AROUND CASE	NG FO SLO	PE AWA	y AS	REQUIRED.
	- 1. 1		<u> </u>	11.0,10	राम् कुरु पहिरुद्धाः स
I certify that the above information is correct:	yped/Printed Name	Title			Date

III. WASTEV	VATER DISPOSAL		The second secon	1347					
☐ Septic T	ank/Absorption Systen	1		₩ Pack (Spe	age Treatme	ent: Name or Process	Noe	WECO	Almanda (1977) Programa Programa
☐ Holding Specify:				: Waste is Disp		re Hills		y of Pumpin	9 15y .
Septic T	ank Outfall ed To:		on very and the	Ott	er (Specify)	nerator, etc.)		Appropriate	Signature
☐ New Sy			Augustus (1900) in the second of the second		to to the year of	nerator, etc.)		A THE	1865 IV
Name of Installe	er						Date Inst	alled	
Owner/Bui	Ider Certified In	staller	Other:	Type/Man	ufacturer				
Septic Tank Size	e (Gallons) N	umber of C	ompartments	Soil Type	or Rating				
Type Soil Absor	ption System		Dimensions/Size Soil At	osorption Syst	em	Type/Quar Absorption	tity Backfill	Material use	d for Soil
Percolation Test	Results		Percolation Test by: (N	ame)				1 1 1 1	
Minimum Groun tion area	d Cover over Absorp	Minimum Tank	Ground Cover over Septic	Septic Tar	ipes/Caps In	stalled on		ipes/Caps In System	
Separation Distance to:	Water Supply Source		Nearest Water Supply Sou Lot	rce on Adjace	nt Neare	st Body of Wate		Yes [] e/Bedrock	Lot Line
Comments/Reco	mman dations	Feet		Fee	t :	Feet		Feet	Fe
NOT Existing		certified in	staller, professional engineer	or DEC Staff.					
Name of Installer			Langue Visit		. :		Date Instal	led	
POB	ERT PELKEY	/GA	GNON EXCAUATI	ING				985	
Owner/Bui	No.	taller	Other:	NORWE					4
Septic Tank Size	(Gallons)	Numbe	r of Compartments	Soil Type o	r Rating	- CL			
Type Soil Absorp	tion System		Dimensions/Size Soil Abs	sorption Syste	m	Type/Quant Absorption	ity Backfill N		
dequacy Test Re	sults:		Adequacy Test Performed	By:(Attach Co	py of Report		Tank Pumps	KNOWN d (Attach C	opy of Receip
dinimum Ground ion Area	Cover over Absorp	Minimum (Tank	Ground Cover over Septic	Cleanout Pig Septic Tank				pes/Caps In: System	stalled on
eparation Distance to:	Water Supply Source		Vearest Water Supply Source	on Adjacent		t Body of Water	1 1 1 1 1 1 1 1 1	/Bedrock	No Lot Line
Gran	mendations O AA	is correct	650R65 C. SCHU	Feet	CIVIL	ENGLIS	10	Feet /0 / 24	>10 Fee
gnature Gosea	hut	Sego N	yped/Printed Name JOSEPH CURTS	13.	tle, Reg./Ce	rt. No., Inst. No	. 0	ate '	
NO7	E: Must be signed by a	professiona		450	6 OF 4	a de la		10-13	-86
				500	A	200		4	

SEAL

G. L. Sincolony 1903, 1900-8

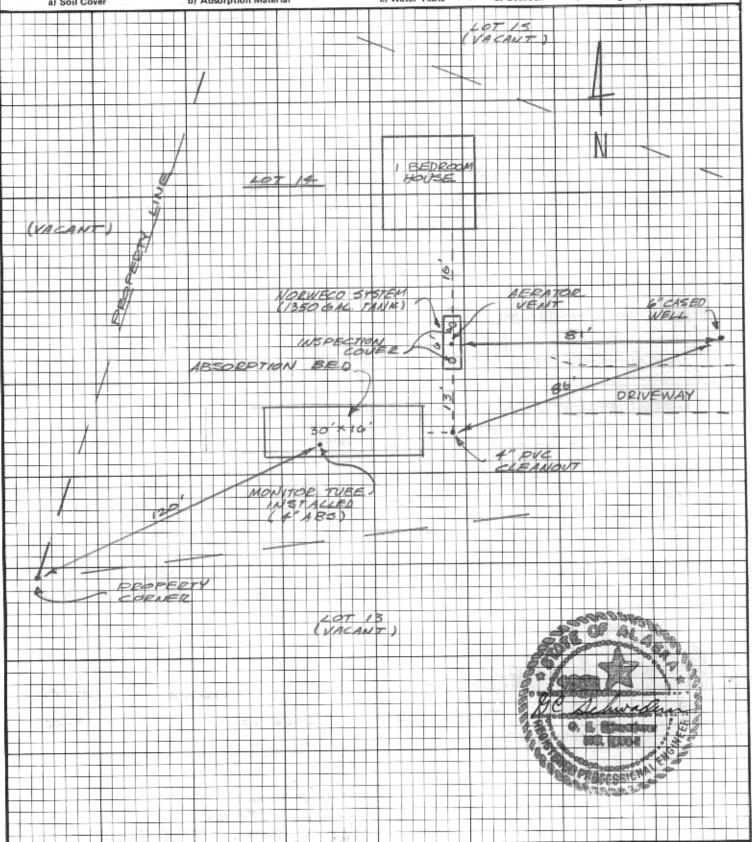
Registered Professional Engineer

INSTRUCTIONS FOR DIAGRAM

- In a plan view, locate and identify each of the following:
 a) Well
 b) All Structures
 - e) Surface Water
- f) Sources of Contamination
- c) Septic Tank

d) Soil Absorption System (Include Dimensions)

- h) Closest well on an adjacent property
- j) Closest edge of an absorption field on an adjacent property
- g) Property Line
 i) Closest septic tank on an adjacent property



Date	Received	
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STATE OF ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION DOCUMENTATION OF CONSTRUCTION

GENERAL INFORMATION	Submitted by: (Check one)
Description of the Location	1
Barnett's South Slope Subd.	Certified Installer
Barnell's 300th	☐ Approved Homeowner
Lot 17 Block 1	Registered Engineer
	Onsite Wastewater System Serves:
staller Name:	Onsite Wastewater System of Redrooms 3
Arno Construction	Single Family. Number of Bedrooms
ATMO CONSCIOUS	Duplex. Number of Bedrooms
failing Address	Small Commercial Facility With Estimated
P.O. Box 1772 Homer, Ak 99603	Design Flow of less than 500 GPD.
Hamer Ak 99603	Design flow of loss
FIGURE	
I. WATER SUPPLY SYSTEM (SECTION II IS OPTIONAL) Type of Water Supply System	System Treatment of Water (Check all that Apply) Chlorination
ource of Water and Containment (Check all that Apply)	□ None □ Mineral Removal
Well (Drilled or Driven)	
Uther (tolerally) (comily)	
A .	Yes No
Well Data Is the height of the well casing more the 12" above the ground?	☐ Yes ☐ No
Is a sanitary seal or well cap installed on the well casing?	ne well casing?
Is a sanitary seal or well cap instance on the casing within a radius of 10 feet of the	Yes No [Yald (If available) Pump Rate (If available)
Is well wire enclosed in conduit?	(Sr: 14 (If available) (Pump Rate 12)
Depth of Well (Feet)	
Separation Distance from the Well Casing to each of the Following Sources of Contamination: Sewer Lines on Lot	Absorption Area on Lot
Sentic/Holding Tank on Let	Closest Edge of an Absorption Area on
Closest Sewer Lines on Adjacent Lot	Feet Adjacent Lot: Lo- Adjacent Lot
is la including fuel tanks, paints, lubricants and outer	on Lot Feet On Adjacent Bot F
Indicate separation distance from toxic materials including to well casing: petroleum based materials, pesticides, fungicides or herbicides to well casing:	Sampler is: Buyer Engineer
Water Sample Taken by: (Name)	
	☐ Banker ☐ Government Official
Address	Date:
Water Sample Results: Satisfactory - Date	Unsatisfactory - Date
Attach Copy Comments/Recommendations:	
Comments/Recommendations	
	Salar Sa
I certify that the above information, and that provided in Section IV, is con Typed/Printed Name	Tect: Date
I certify that the above information, and that provided Name	20/2/02
Signature To	aine Civil Engineer
Welliam F. Grains Willer Professional Engineer. DEC	staff, or Owner/Builder

Note: 1. This section should be signed by a Certified Installer. Professional Engineer. DEC staff, or Owner/Builder

2. All public water systems must receive ADEC plan approval prior to construction. See 18 AAC 80 State of Alaska Drinking Water

	I egal Description:	++1- <	South Slave	Subdi	vision
WASTEWATER DISPOSAL	Legal Description: Ba	+ 17 Bloc	ck l		
e of Wastewater System:		☐ Package 7	Treatment Plant (requir	es engineered	design)
Septic Tank with Conventional Soil Abs	Size in Gall		Manufactu		
Holding Tank: Material Type:	Size iii Gui		Onsite (requires engin	eered design)	
J Other - Specify Type	1 1 1 1 1 1 1 1			Gallons Per	Day (GPD)
Small Commercial System (< 500 GPD)	With Estimated Daily v	astewater Flow	01.		
Criteria Used to Estimate Daily Wastev	vater Quantity:				
		- 1. A. P.			
NEW SYSTEM REPAIR TO EX	KISTING SYSTEM	Certified Instal	ler Installation Notific		1
A C -+		7.1	Date Installed	1: 12/19	1002/8
		☐ With Ins	spection by a Registere	d Engineer	distribution distribution distribution di la constantia d
Jeen Little Litt		By a Cer	tified Installer/Installer		10-23-01
By Approved Homeowner (attach copy eptic Tank: Material: Manufac	turer:		Number of C	ompartments:	
Steel D&W	1 1250				le Bed
ype of Soil Absorption System:	□ Deep Trench		Trench Seepa	gerit L	,
	☐ Mound	Other, S	Specify Size of Absorption Area	825 Ft	= 30,5 x 50
oil Type: SM Soil Rat	ing: 0.6 9 Pd/ft				3' to Bottom
Grading/Size of Distribution Rock: 3/4"			pth of Distribution Ro	ck: 12"/	5 Co Docum
Percolation Test Results, Attach Copy of Re	port:		est Performed by:		•
	n m Dadanam	percolation test r	results must be sealed/signed	by a registered er	Test
imum Ground Cover Over: Septic	Sq. Ft. per Bedroom Tank: Z'+Z" Z ₁₄ , Absorpti	on Area: 2'+2	Insul Sewer Pipe	S: 0 + 0	LH301.
Foundation Foundation	dation Cleanout: Yes	Septic Tank:	7es Monitor II	bes: /63	
List Separation Distances From Septic Tank	c or Absorption Area, Wh	ichever is Close	st, to All Nearby:		None
Public Drinking Water Sources Within 200	feet: None	Private Drin	king Water Sources W		N/A
Nearest Water Bodies (see 18 AAC 72.020	(b)):			Lot Line:	,
Separation Distance from Onlot Sewer Lin	es to: Public I	Orinking Water S	The second of th	1 200	11 +
Separation Distance From Bottom of Distr		Groundwate	er Table: 4 ' +	Bedrock:	B. 296.
Separation Distance from Absorption Area	to Slope exceeding 25%	· N/A	1	X Procession	7.7
Comments/Recommendations			(B 4	49TH 6	
			1	Villiam 7.	Craw
				W.Blam F	Cruino
			(4)	CE 4	200
1				PROFE	000
		I is correct.		1.00000	4
I certify that the above information, and t	hat provided in Section I Typed/Printed Na	me	Title, Reg./Cert No.,	Inst. No.	Date / 7 / 2
Signature	1	C	Chail Englacey	CE 4950	20/2/2
411 41	LANGUAGE TO A			ears printed name	
NOTE: Must be signed by a Certified Installer. Pro- tration number. and is signed. those blocks ne	Jessianal Engineer. DEC staff.	or Approved Homeo	wner. If engineering seat v	a s prante	

IV. DIAGRAM OF SYSTEM(S) INSTRUCTIONS FOR DIAGRAM d) Soil Absorption System In a plan view, locate and identify each of the following: c) Septic Tank (Include dimensions) b) All Structures g) Property Line a) Well None f) Sources of contamination Nove i) Closest septic tank on an adjacent property Nowe e) Surface Water None h) Closest well on adjacent property > 100 k) All cleanouts and monitor tubes j) Closest edge of an absorption field on adjacent property None Show distances between the well and each of the sources of contamination listed in 1. 3. Show distances between water bodies and each part of the onsite system listed in 1. 4. In a cross section view of the soil absorption area, identify each component and show the depth (thickness) of the following: f) Insulation e) Discharge pipes c) Water Table a) Soil Cover b) Absorption Material lot 17 Lot 16 Vacant House 4" Cleanout 1250 Gal. Septic Tank Garage w/Cleanouts 4" Sewer Line (Solid) -4" Monitor Tube (Typ) 4" Perf Pipe 51 Typ

Tasmania West Court

Shallow Trench SAS

SITE PLAN 1": 30"

2/2/02 Sht. 1/3

TH
(feet) SURFACE ELEVATION
Brown, Organics
Sandy Loam, SM
Brown, Loamy Sand, SM
2 Gray, Silty Sand
Sandy Silt, SM
Gray Loam, SM
Red Sandy Loam Loam, SM
4- Red, Sandy Loam, SM
Gray, Silty Sand, SM
5- Gray, Silt Loam, SM
Gravel, < 1/2, GM
6-// Gray W/Mod. Mottleing
Silty Sand, SM
7-1///
8 - Oray Gray Gravel GM
Bottom of Hole
No Water
-1. 1
1
7 1
7



Sandhill Enterprises William F. Craine, P.E. P.O. Box 728 Homer, Ak. 99603 235 - 5902 SOIL LOG – TEST HOLE #1 SHALLOW TRENCH SAS BARNETT'S SOUTH SLOPE SUBD. LOT 17 BLOCK 1 STAFFORD RESIDENCE

DATE: 12/9/01 SHEET: 3/3

Drawn: WFC Revisions: