Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

pd # 8161 $350.00 7/17/13

A

Permit Number HS000782

Onsite Wastewater Treatment System Request for Site Clearance and Permit

Include Form B and C. Submit correct fee with this Application

3 acres or more required for: ☐ Septic System ☒ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Wastewater Treatment System in conformance with appropriate regulations.

PLEASE PRINT OR TYPE

A. Onsite System Location

Address 16101 S. 26th Dr (no rural route) City Roca, NE Zip 68430

Legal Description NW NW 19 8N 7E White Tail Ridge 1st $ 32 LS

1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID ~~09-25-201-008-000~~ 15-19-102-002-000

B. Owner

Name Aaron + Sharreen Nelson Signature Aaron Nelson

Address P.O. Box 22530 City/State/Zip Lincoln, NE 68542

Home Phone 402-525-5716 Work Phone

C. Certified Installer

Name: Lloyd Jakowbek, Raymond Contracting Inc Signature Kevin Johnson for Lloyd

Address 13800 NW 70th St City/State/Zip Raymond, NE 68428

Work Phone 402-890-6009

D. Engineer

☐ Check and complete if engineer designed system P.E. License Number:

Designer Name Firm Work Phone

E. This system will serve a

☒ Residential Dwelling Number of Bedrooms 9 Whirlpool Bathtub? ☒ Yes ☐ No Total Acres 4.26

Garbage Grinder? ☒ Yes ☐ No

☐ Commercial Establishment/Other Facility Specify Design flow in gallons per day

Type of Wastewater ☐ Domestic ☐ Non-Domestic

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☒ County Resolution No. 02-30

1. Health Department
Site visits
Comments
Date rec'd 7/22/13
Date frwd 7/22/13
ACTION ☒ Approved ☐ Disapproved
Signature

2. Supt. Bldg. Insp. or Village Clerk
Comments
Date rec'd
Date frwd
ACTION ☒ Approved ☐ Disapproved
Signature attached

3. City or County Engineer
Comments
Date rec'd
Date frwd
ACTION ☒ Approved ☐ Disapproved
Signature attached

Installation Final Written Approval
By
Date

Business Office Use Only
Date Received 7-22 Amount Paid 355.00
Received By KM Cash/Check No. 8161

White - Health Department Yellow - Engineer Pink - Building & Safety

Form A Updated: 1/13

JUL 17 2013

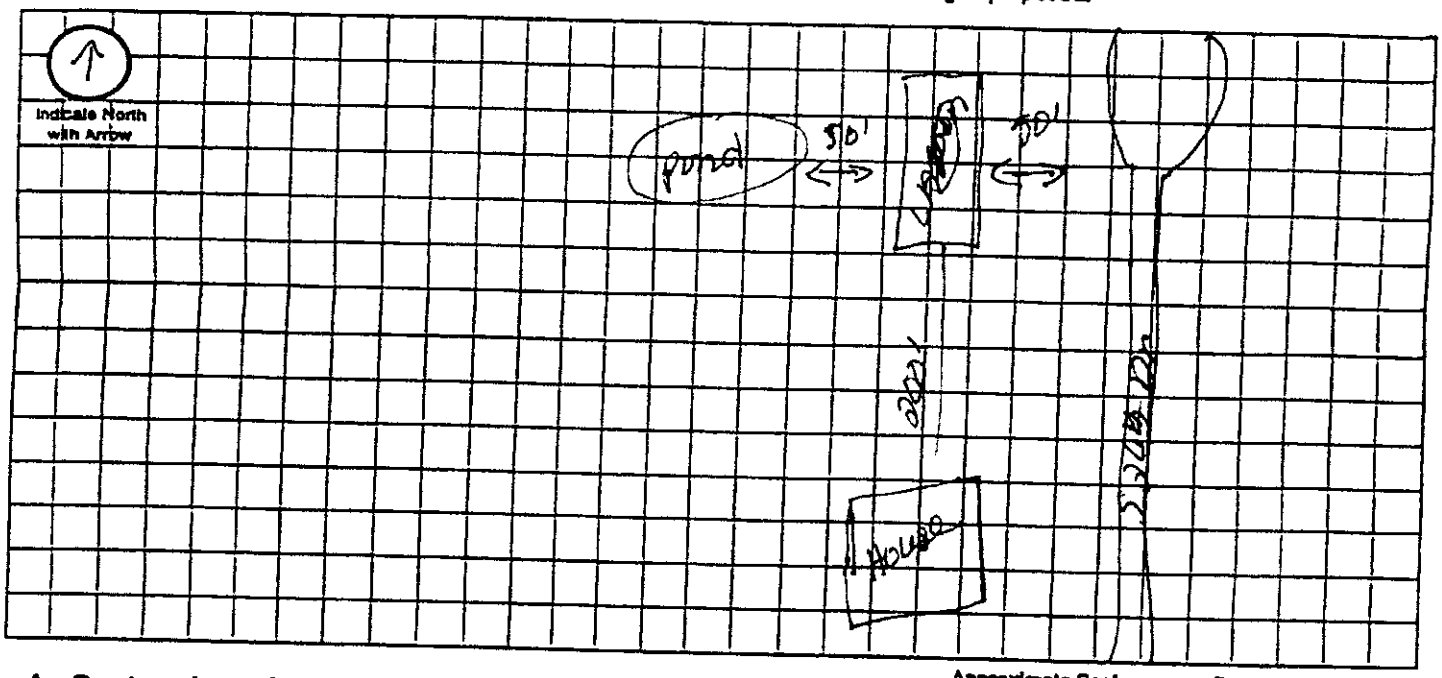
C

Lincoln-Lancaster County Health Department
Environmental Health Division
3140 "N" Street • Lincoln, NE 68510-1514
Phone: 402-441-8022

Permit Number:

Sewage Disposal System
Preliminary Plan Specifications

Draw a plot plan showing system location, lines, distribution box, tank and laterals, percolation test hole locations, well, residence, compass direction and property lines. Indicate on drawing if residence and well are existing or proposed.



Approximate Scale: _____ ft. = _____ grid line/s

A. System Location (Indicate correct number and street)

Address (no rural route) 16101 S. 210th Dr City Roca NE, Zip 68430

B. Proposed Septic Tank/s

Tank Material: ☐ Concrete ☐ Plastic ☐ Other _____

C. Proposed Absorption System (See Form B for Percolation Information)

Percolation Rate _____ (min. per inch) Soil Type: _____ Land Slope: _____ %

Type of Absorption System: ☐ Trench ☐ Bed ☐ Other _____

Total Square Feet of Field Required: _____ sq. ft.

Type of Lateral: ☐ Half-Moon ☐ Perforated Pipe ☐ Other Lateral Material: _____

Capacity of Septic Tank _____ gals Number of Absorption Beds: _____ Number of Distribution Laterals per Bed _____

Total Length of Laterals _____ ft. Number of Trenches _____ Trench Width _____

D. Setbacks Check the Boxes Below if the Required Setback has been Satisfied

Distance From	Private Well	Public Well	Surface Water	Gound Water	Pressure Water Lines	Property Lines	Foundations Yours	Foundations Neighbors	All Other Setbacks
Tank (ft)	50 ☐	500 ☐	50 ☐	NA ☐	25 ☐	20 ☐	15 ☐	25 ☐	☐
Field (ft)	100 ☐	500 ☐	50 ☐	4 ☐	30 ☐	20 ☐	30 ☐	40 ☐	☐
Lagoon (ft)	100 ☒	500 ☒	50 ☒	N/A ☐	30 ☒	50 ☒	100 ☒	200 ☒	☐

E. Required Signatures

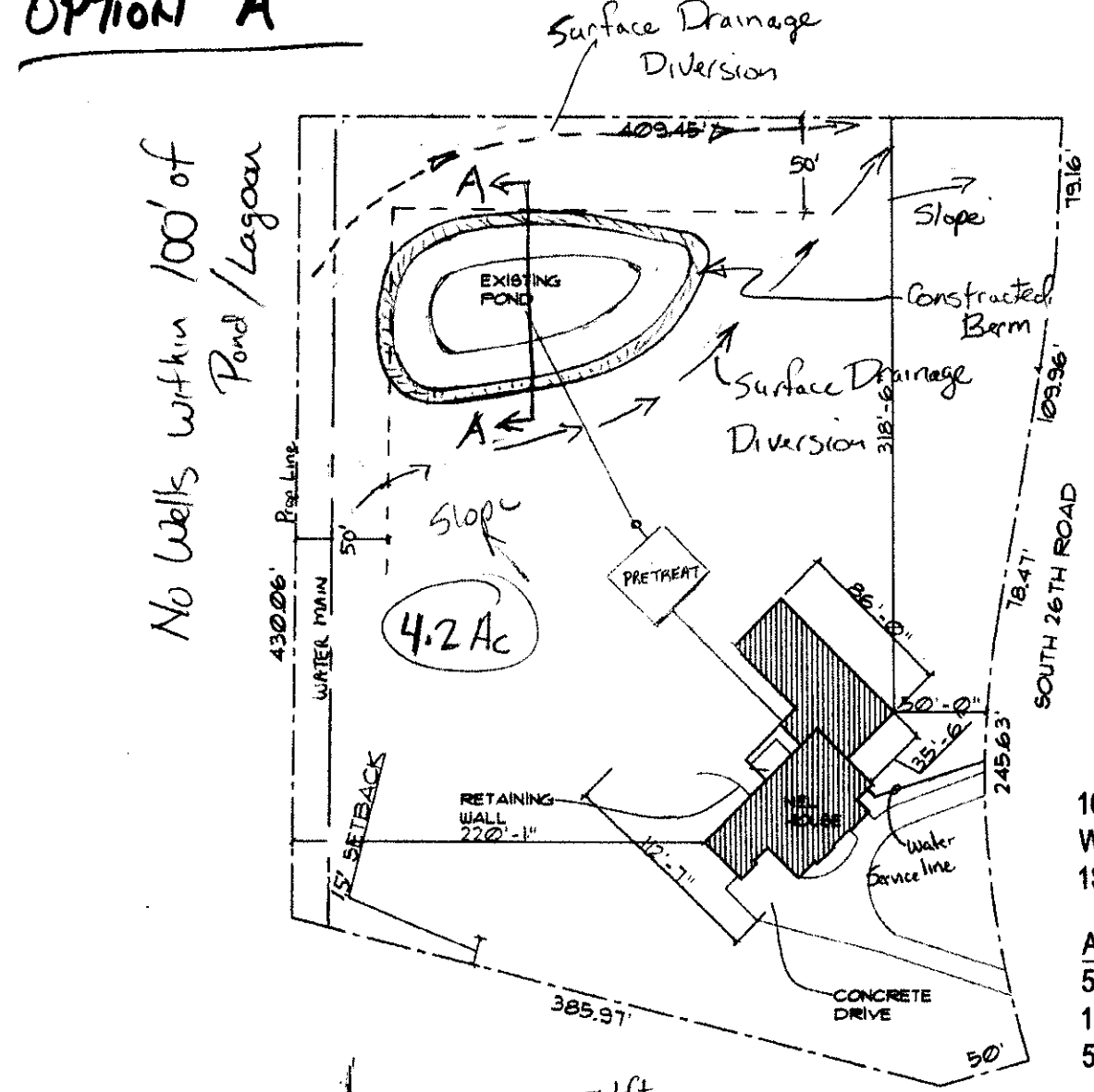
Home Building Contractor _____ Date 7/16/13

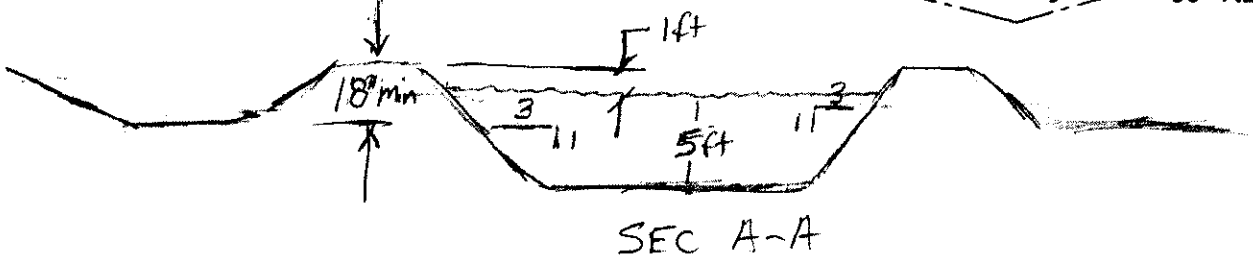
Installer _____ Date 7/15/13

FORM 23-102 10-96

OPTION "A"

*Preliminary Design - Lagoon/Pond Lot # 2, Whitetail Ridge, 1st Addition





SEC A-A

Notes:
1. Existing Pond to be Drained
2. Construct Berm & Shape to divert surface drainage around pond/lagoon
3. Test sides & bottom for seepage rate (< 1/8"/day)
4. Rework, Seal & retest, if necessary.
5. Meet all lagoon Spec's for title 124

SCALE 1" = 60'

9 Br - Peak 1000 gpd
Design flow For lagoon - 825 gpd

16101 S. 26TH DR
WHITETAIL RIDGE
1ST ADDITION, LOT 2

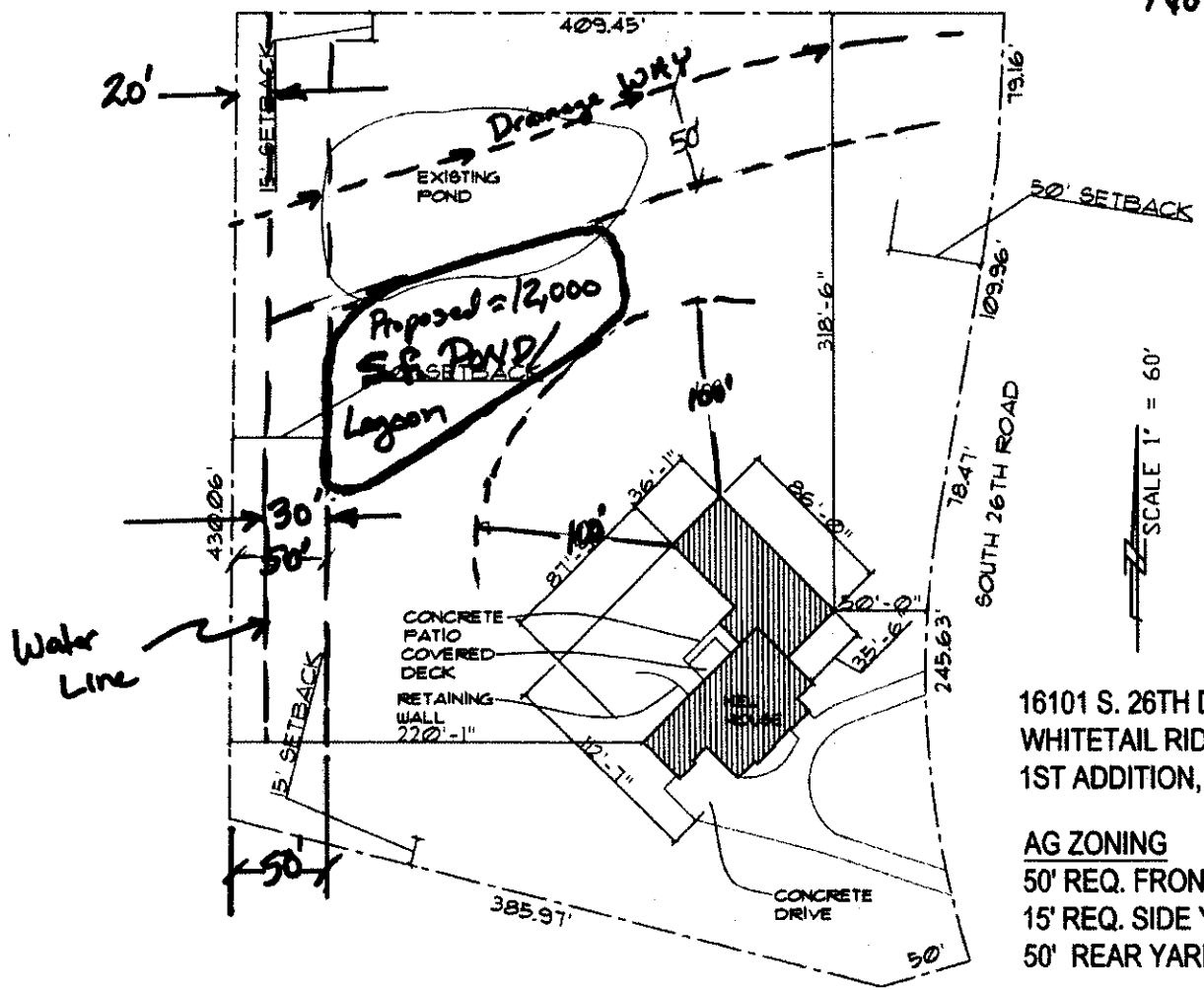
AG ZONING
50' REQ. FRONT YARD
15' REQ. SIDE YARD
50' REAR YARD (OR 20% OF LOT)

Lagoon Size Reqd
@ 1/8" SEEP = 7619 sq Ft
@ 1/16" SEEP = 11,900 sq Ft
Size @ Shown ≈ 17,000 sqFt

Jeffery N Schoeneck P.E.
402-720-9209

OPTION "B" Construct New Lagoon/Pond

Lot #2, Whitetail Ridge, 1st Addit.

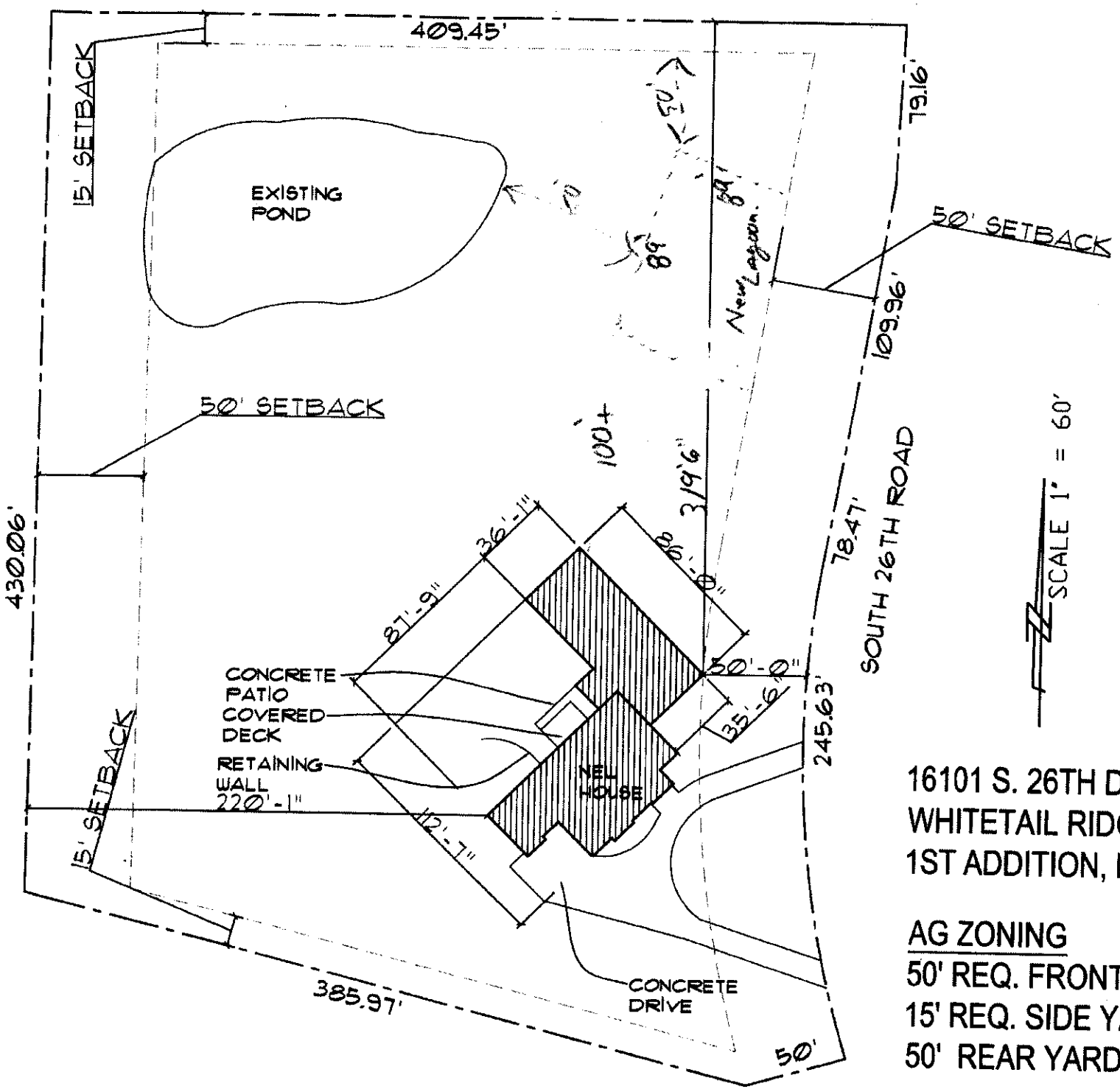


Notes:

1. Fill-in Existing ~~Lagoon~~ Pond to restore Natural Drainage way
2. Construct New Lagoon/Pond to meet Title 124

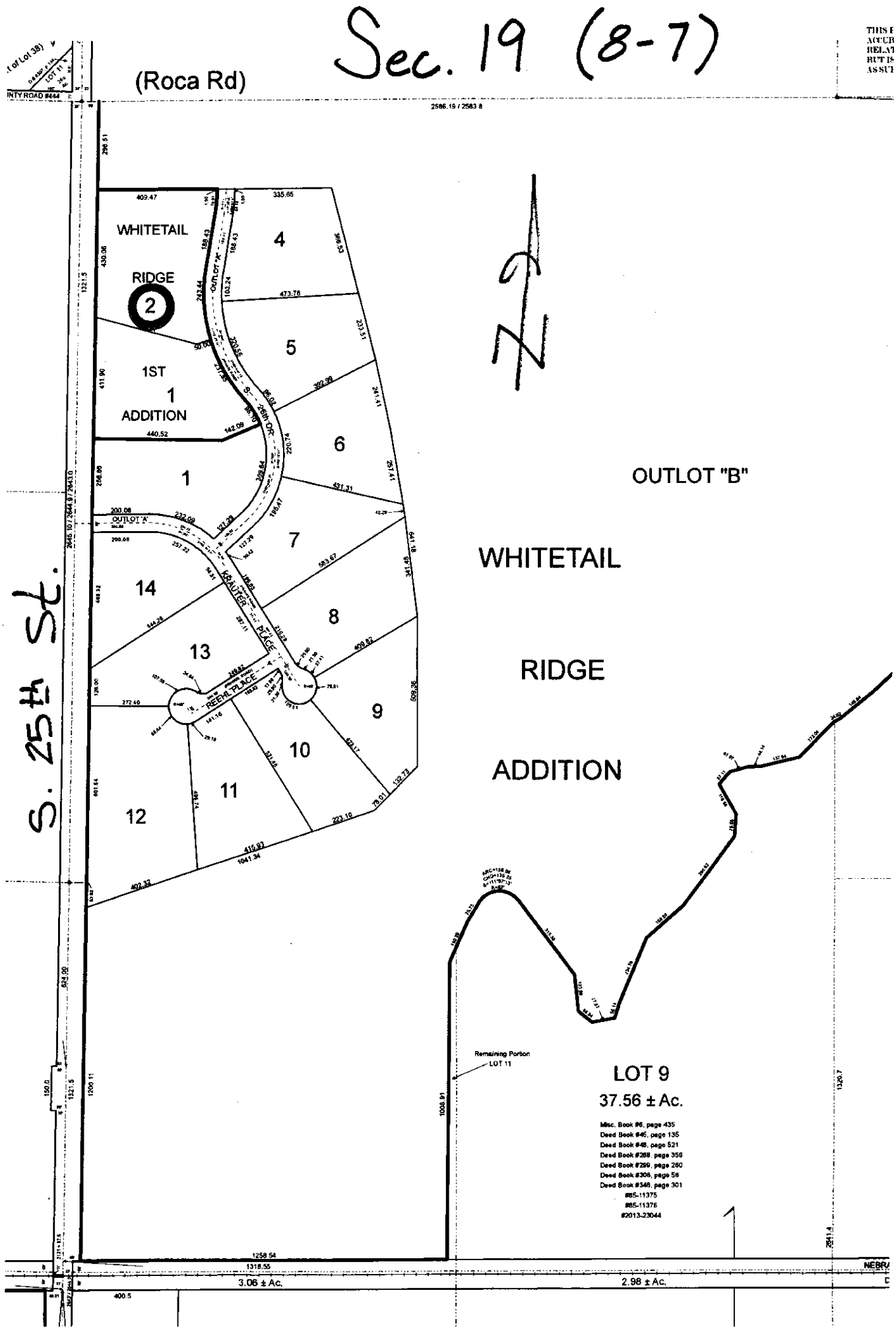
16101 S. 26TH DR
WHITETAIL RIDGE
1ST ADDITION, LOT 2

AG ZONING
50' REQ. FRONT YARD
15' REQ. SIDE YARD
50' REAR YARD (OR 20% OF LOT)



16101 S. 26TH DR
WHITETAIL RIDGE
1ST ADDITION, LOT 2

AG ZONING
50' REQ. FRONT YARD
15' REQ. SIDE YARD
50' REAR YARD (OR 20% OF LOT)


Sec. 19 (8-7)
(Roca Rd)
S. 25th St.
WHITETAIL
RIDGE
2
1ST
ADDITION
1
4
5
6
7
8
9
10
11
12
13
14
OUTLOT "A"
OUTLOT "B"
WHITETAIL
RIDGE
ADDITION
LOT 9
37.56 ± Ac.
Misc. Book #6, page 435
Deed Book #45, page 135
Deed Book #48, page 521
Deed Book #288, page 359
Deed Book #299, page 260
Deed Book #308, page 58
Deed Book #348, page 301
#85-11375
#85-11376
#2013-23044
Remaining Portion
LOT 11
3.06 ± Ac.
2.98 ± Ac.
1258.54
1318.55
400.5

Engineer: Jeff Schoenek
Meridian Development
Fremont, NE

Date: Friday, July 12, 2013 3:40 PM
From: jakoubek63@windstream.net
To: aaron@lincolncoldstorage.com
Subject: Septic System

design plans will be submitted to NDEQ this week

Hi Aaron,

Our engineer has proposed installing a recirculation media filter pretreament system for your "septic" system with a couple different options.

A basic overview of how this would work:

All waste water coming out of your house will go into a large trash/septic tank where the solids, fats, oils & greases would be seperated from the liquid (effluent). The effluent would then flow to another tank where it could be pumped into a recirculating media filter where additional treatment occurs. After moving thru this filter there are 2 different options for final treatment. ~~Option 1 would be to have the effluent flow to a drainfield (laterals) where the soil would provide final treatment.~~ Option 2 would be to have the effluent flow into your existing pond only after it has another round of treatment with chlorination and ~~UV disinfection~~. (All run off water would have to be diverted away from this pond as it's only contents would be the cleaned waste water - clean enough to not need fencing.)

I've attached a picture of what a recirculating media filter would look like in your yard. The approx size of this cell would be 10' x 20' or 14' x 14'.

~~Option 1 would need an additional 3400 sq ft of area for the drainfield.~~

~~Prelim costs on option 1 would be $30 - $34K, option 2 would be $20 - $24K.~~

Engineering design costs will be an additioanl $2500.

There will be regular maintenance requirements that will include annual or semiannual fees.

A final quote can not be provided until we have an approved plan from the NE Dept of Environmental Quality as they may require changes to the plan.

In addition - we are required to include a reserve area in our plans in case the original wastewater treatment system fails. Meaning we have to make sure there is enough available space on your lot for a back-up system.

We'd be more than happy to meet again to discuss any questions or concerns you may have before making a decision on how you'd like to proceed.

FYI - once a design plan is completed, it takes 30 days for NDEQ to review and approve/modify/deny the plan.

And one final item, we are in need of a plot plan which shows elevations for your lot. Can you get me this information?

Thanks,
--
Terri Jakoubek
Raymond Contracting, Inc.
13800 NW 70th St
Raymond, NE 68428
402-783-2663 (Office)
402-783-2341 (Fax)
402-890-3870 (Mobile)
jakoubek63@windstream.net

©2013 Windstream Communications

Nate C. Hartman

From: jakoubek63@windstream.net
Sent: Monday, July 22, 2013 8:12 AM
To: Nate C. Hartman
Cc: John J. Chess
Subject: 16101 S 26th Dr Permit
Attachments: 16101 S 26th Dr Lagoon.pdf

Good Morning Nate,

I've attachaed a letter from Aaron Nelson regarding request for approval on his Lagooon permit as well as the plot plan with the Lagoon drawn on it. (Lloyd & John discussed this on Friday.)

Can you give me or Lloyd a call with a permit number once it's been approved.

Let me know if you have any questions.

Thanks,
--
Terri Jakoubek
Raymond Contracting, Inc.
13800 NW 70th St
Raymond, NE 68428
402-783-2663 (Office)
402-783-2341 (Fax)
402-890-3870 (Mobile)
jakoubek63@windstream.net

Nate C. Hartman

From: Buttermore, Gary [gary.buttermore@nebraska.gov]
Sent: Monday, July 22, 2013 8:14 AM
To: Jeff S; Nate C. Hartman
Cc: jakoubek63@windstream.net
Subject: RE:

Jeff and Nate,

Just to clarify - Size (over 1,000 gpd) is just one Title 124 permit trigger (Ch.3). Non-domestic is another and the Title 124 requirements for permitting also apply if the prescribed requirements for "Authorization by Rule" are not met. Fencing is a specified requirement in Title 124 so if no fencing is planned that would also trigger the permit requirement. Thanks.

Gary Buttermore, P.E.
Environmental Engineer IV
Supervisor - Onsite Wastewater Unit and Operator Certification Program Wastewater Section - Water Quality Division, NDEQ Suite 400 - The Atrium, 1200 N Street, Lincoln NE 68509 Onsite Program URL - http://deq.ne.gov/WasteWat.nsf/Pages/Onsite
Gary.Buttermore@nebraska.gov
402.471.8283

-----Original Message-----
From: Jeff S [mailto:jeffs@meridiandevelop.com]
Sent: Thursday, July 18, 2013 2:24 PM
To: nhartman@lincoln.ne.gov; Buttermore, Gary
Cc: jakoubek63@windstream.net
Subject:

Nate,

Attached is a file showing (2) options I am looking at for the lagoon/polishing pond. After closer review of the regs pertaining to lagoons, Option "B" would best fit the requirements for a lagoon in meeting all the setback requirements of Title 124. To be a bit conservative, I have shown a 12,000 s.f. lagoon. We will be submitting a plan to pretreat and disinfect the effluent with NDEQ to have the ability to eliminate the fencing requirements, not for the size of the system. In my conversations with Gary Buttermore and reading Title 124, a lagoon is permissible for a 9-bedroom home (1000 gpd peak, 825 avg design) without a NDEQ permit. 1001 gallons would require the permit.

The owner and builder would like to start construction ASAP, and I am still working on the submittals for the pretreatment system. As you can see, there is adequate room for a lagoon as a last resort to handle the domestic waste from the 9 bedroom home. I understand you need to do your due diligence and insure all the basis' are covered. Please contact me with any questions or comments

Gary,

I have included you in this e-mail, since Nate wanted to discuss this project with you.

Regards,
Jeff Schoeneck, P.E.
(402)-720-9209

July 19, 2013

Lincoln-Lancaster County Health Department
Environmental Health Division
John Chess
3140 'N' St
Lincoln, NE 68510-1514

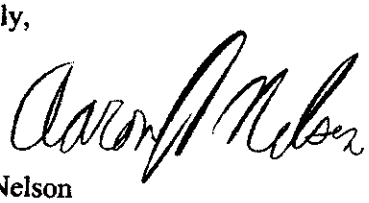
Mr. Chess,

I am writing to request approval on my recent permit application for an onsite wastewater treatment lagoon system located at 16101 S 26th Drive so that I may obtain a building as quickly as possible.

It is my intention to submit an application for a construction permit for an engineer designed wastewater treatment system to the Nebraska Department of Environmental Quality for this property.

I am aware that I will have to have a onsite wastewater treatment system that meets Title 124 requirements. I fully understand that if an engineer designed wastewater treatment system is denied by the Nebraska Department of Environmental Quality for any reason I will have to install the wastewater treatment lagoon.

Sincerely,



Aaron Nelson
PO Box 22530
Lincoln, NE 68542
402-525-5716

Nate C. Hartman

From: Mike J. Petersen
Sent: Monday, July 22, 2013 10:27 AM
To: Nate C. Hartman
Subject: RE: 16101 S 26th
Attachments: Mike Petersen.vcf

Nate- Whitetail Ridge 1st Addition Lot 2 is a legal buildable lot not in the flood plain. I cannot verify the address yet. - Mp



Mike Petersen
Building & Safety Dept.
Plans Examiner II

(402) 441-6445 Work
mjpetersen@lincoln.ne.gov

555 S. 10th Street Room 203
Lincoln, NE 68508

From: Nate C. Hartman
Sent: Monday, July 22, 2013 10:23 AM
To: Mike J. Petersen
Subject: 16101 S 26th

Mike:

Please review Whitetail Ridge 1st Addition Lot 2. 16101 S 26th is what I have for an address (no guarantees on that).

Thanks!

Nate Hartman, REHS
NPDES Program Specialist
Water Quality Section
Lincoln-Lancaster County Health Department
(402) 441-8643

Nate C. Hartman

From: Jeff S [jeffs@meridiandevelop.com]
Sent: Tuesday, July 23, 2013 7:37 AM
To: Buttermore, Gary; nhartman@
Cc: jakoubek63@
Subject: RE: 9 Bedroom Lagoon or pond

Gary,

Thanks for the clarification. It is our intent to apply for a permit to pretreat and disinfect to possibly eliminate the fencing requirement, as was achieved with the NDEQ Facility Number 78760 example you had sent me. If for some reason that is not possible or the home owner choose not to pretreat and disinfect, I wanted to make sure there was adequate room to construct a standard lagoon with required fencing. I also wanted to clarify that the same impoundment structure could be used as either a lagoon or non-discharging polishing pond.

Regards,
Jeff

-----Original message-----
From: "Buttermore, Gary" gary.buttermore@nebraska.gov
Date: Mon, 22 Jul 2013 07:13:48 -0500
To: Jeff S jeffs@meridiandevelop.com, "nhartman@lincoln.ne.gov"nhartman@lincoln.ne.gov
Subject: RE:

> Jeff and Nate,
>
> Just to clarify - Size (over 1,000 gpd) is just one Title 124 permit trigger (Ch.3). Non-domestic is another and the Title 124 requirements for permitting also apply if the prescribed requirements for "Authorization by Rule" are not met. Fencing is a specified requirement in Title 124 so if no fencing is planned that would also trigger the permit requirement. Thanks.
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> Gary Buttermore, P.E.
> Environmental Engineer IV
> Supervisor - Onsite Wastewater Unit and Operator Certification Program
> Wastewater Section - Water Quality Division, NDEQ Suite 400 - The
> Atrium, 1200 N Street, Lincoln NE 68509 Onsite Program URL -
> http://deq.ne.gov/WasteWat.nsf/Pages/Onsite
> Gary.Buttermore@nebraska.gov
> 402.471.8283
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> To: nhartman@lincoln.ne.gov; Buttermore, Gary
> Cc: jakoubek63@windstream.net
> Subject:
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> Nate,
>
> Attached is a file showing (2) options I am looking at for the lagoon/polishing pond. After closer review of the regs pertaining to lagoons, Option "B" would best fit the requirements for a lagoon in meeting all the setback requirements of Title 124. To be a bit

conservative, I have shown a 12,000 s.f. lagoon. We will be submitting a plan to pretreat and disinfect the effluent with NDEQ to have the ability to eliminate the fencing requirements, not for the size of the system. In my conversations with Gary Buttermore and reading Title 124, a lagoon is permissible for a 9-bedroom home (1000 gpd peak, 825 avg design) without a NDEQ permit. 1001 gallons would require the permit.

> The owner and builder would like to start construction ASAP, and I am
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> can see, there is adequate room for a lagoon as a last resort to
> handle the domestic waste from the 9 bedroom home. I understand you
> need to do your due diligence and insure all the basis' are covered.
> Please contact me with any questions or comments
>
> Gary,
>
> I have included you in this e-mail, since Nate wanted to discuss this project with you.
>
> Regards,
> Jeff Schoeneck, P.E.
> (402)-720-9209
>

Lincoln-Lancaster County Health Department
Environmental Public Health Division (402) 441-8027
3140 N Street Lincoln, Nebraska 68510-1514

ON-SITE WASTE WATER SYSTEM
CONSTRUCTION - INSTALLATION PERMIT
No. HS000782

System Type: Lagoon

Situs: 16101 S 26 DR, RURAL, NE

Issued: 7/23/2013

Expires: 7/22/2014

Description: WHITETAIL RIDGE 1ST ADDITION, Lot 2

Owner: NELSON, AARON J & SHARREEN R
PO BOX 22530
LINCOLN, NE 68542

Judith A Halstead
Judith A. Halstead, MS, Health Director

Dear Applicant:

The above document is your permit to construct a new On-site Waste Water System at the location listed. Please contact this office once the sytem is complete in order to schedule a final inspection before use.

Judith A Halstead
Judith A. Halstead, MS
Health Director

RAYMOND CONTRACTING
13800 NW 70TH
RAYMOND, NE 68428

Lincoln-Lancaster County Health Department
Environmental Public Health Division (402) 441-8027
3140 N Street Lincoln, Nebraska 68510-1514

ON-SITE WASTE WATER SYSTEM
CONSTRUCTION - INSTALLATION PERMIT
No. HS000782

System Type: Lagoon

Situs: 16101 S 26 DR, RURAL, NE

Issued: 7/23/2013

Expires: 7/23/2014

Description: WHITETAIL RIDGE 1ST ADDITION, Lot 2

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PO BOX 22530
LINCOLN, NE 68542

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Judith A Halstead
Judith A. Halstead, MS
Health Director

RAYMOND CONTRACTING
13800 NW 70TH
RAYMOND, NE 68428

890 6009

SCANNED

Lincoln-Lancaster County Health Department
Environmental Public Health Division
3140 N Street • Lincoln NE 68510-1514
Phone: 402-441-8643

pd # final 1350.00 7/17/13

A

Permit Number HS000782

Onsite Wastewater Treatment System
Request for Site Clearance and Permit

Include Form B and C. Submit correct fee with this Application

3 acres or more required for: ☐ Septic System ☒ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Wastewater Treatment System in conformance with appropriate regulations.

PLEASE PRINT OR TYPE

A. Onsite System Location

Address 16101 S. 26th Dr (no rural route) City Roca, NE Zip 68430

Legal Description NW NW 19 8N 7E ~~Meadow Lake~~ White Tail Ridge 1st ~~1~~ 2

1/4 1/4 Section Township Range Subdivison Addition Block Lot

PID ~~09-25-201-008-000~~ 15-19-102-002-000

B. Owner

Name Aaron + Shannon Nelson Signature Aaron Nelson

Address P.O. Box 22530 City/State/Zip Lincoln, NE 68542

Home Phone 402-525-5716 Work Phone

C. Certified Installer

Name: Lloyd Jakoubek, Raymond Contracting Inc Signature Lloyd Jakoubek for Lloyd

Address 13800 NW 70th St City/State/Zip Raymond, NE 68428

Work Phone 402-890-6009

D. Engineer

☐ Check and complete if engineer designed system P.E. License Number:

Designer Name Firm Work Phone

E. This system will serve a

☒ Residential Dwelling Number of Bedrooms 9 Whirlpool Bathtub? ☒ Yes ☐ No Total Acres 4.21e

Garbage Grinder? ☒ Yes ☐ No

☐ Commercial Establishment/Other Facility Specify Design flow in gallons per day

Type of Wastewater ☐ Domestic ☐ Non-Domestic

DO NOT WRITE BELOW THIS LINE

Approval Process ☐ Municipal Code 24.38 ☒ County Resolution No. 02-30

1. Health Department
Site visits 4/22/14
Comments
Date rec'd 7/22/13
Date frwd 7/22/13
ACTION ☒ Approved ☐ Disapproved
Signature

2. Supt. Bldg. Insp. or Village Clerk
Comments
Date rec'd
Date frwd
ACTION ☒ Approved ☐ Disapproved
Signature attached

3. City or County Engineer
Comments
Date rec'd
Date frwd
ACTION ☒ Approved ☐ Disapproved
Signature attached

Installation Final Written Approval
By Jeff Keith
Date 4/22/14
4/22/14

Business Office Use Only
Date Received 7-22 Amount Paid 355.00
Received By KM Cash/Check No. 8161

White - Health Department Yellow - Engineer Pink - Building & Safety

Form A Updated: 1/13