LINCOLN-LANCASTER COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

3140 "N" STREET
Lincoln, NE 68510-1514
(402) 441-8000

NON TRANSFERABLE

PERMIT

Permit
SEWAGE INSTALLATION
SEPTIC SYSTEM

No. 97380169501

Issued 12/05/97
Expires 06/05/98
Revenue Code 3157

Establishment
R WILLIAM WATSON
T9N R6E SEC 9
5500 S CODDINGTON

FEES: $150.00

Permittee
R WILLIAM WATSON
4100 SALTILLO RD
ROCA NE 68430

TOTAL $150.00

Gregg Wright MD.
Issued By M. Jane Ford
Health Director

5536

THIS LICENSE OR PERMIT IS ISSUED SUBJECT TO REVOCATION AS PROVIDED BY LAW "POST IN A PROMINENT PLACE"

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

A

Permit Number:

Sewage Disposal System

Request for Site Clearance and Permit

Include Form B, Form C and Applicable Fees with this Application.

☒ Septic System ☐ Lagoon ☐ Other (Refer to Form C)

The undersigned hereby requests site clearance and permit to construct a Sewage Disposal System in conformance with appropriate resolution or ordinance, as described herein:

PLEASE PRINT OR TYPE

A. System Location (Indicate correct number and street)

Address 5500 So. CODDINGTON (no rural route) City LINCOLN NE, Zip 68523

Legal Description PLEASE SEE ATTACHED 9 9N 6E
1/4 1/4 Section Township Range Subdivision Addition Block Lot

Geographical Location (if known): Longitude _____ Latitude _____

☒ Check if system mail address is not the same as the owner's address

B. Owner

Name R. WILLIAM WATSON Signature R. William Watson

Address 4100 SALTILLO RD. City/State/Zip ROCA, NE. 68430

☐ Check if owner designed system Home Phone (402) 423-5934 Work Phone (402) 423-7851

C. Contractor

Name GREEN'S FURNACE & PLBG. CO., INC. Company Name SAME

Address 2747 No. 48TH ST. City/State/Zip LINCOLN, NE. 68504

☒ Check if contractor designed system Work Phone (402) 467-4444

D. Engineer/Installer ☐ Check and complete if engineer designed system

Designer Name _____ Firm _____ Work Phone _____

E. This System Will Serve a

☒ Residential Dwelling Number of Bedrooms 5 Is there a Whirlpool Bathtub (YES) NO ?

☐ Commercial Establishment/Other Facility Specify _____

Design flow in gallons per day 400 Type of Wastewater: ☒ Domestic ☐ Non-Domestic.

DO NOT WRITE BELOW THIS LINE

Approval Process ☒ Municipal Code 24.38 ☐ County Resolution No. 2832

1. **Health Department** Date rec'd 12/4/97 Date frwd 12/4/97 **ACTION** ☒ Approved ☐ Disapproved Signature Jerrold C. Hood
2. **Supt. Bldg. Insp. or Village Clerk** Date rec'd 12/4/97 Date frwd 12/4/97 **ACTION** ☒ Approved ☐ Disapproved Signature _____
3. **City or County Engineer** Date rec'd 12-4-97 Date frwd 12-4-97 **ACTION** ☒ Approved ☐ Disapproved Signature _____

12/19/97 Built like plan shown. J.C.H.

Installation Final Written Approval

By Jerrold C. Hood

Date DECEMBER 31, 1997

Business Office Use Only

Date Rec'd 12/04/97

Amt Paid 150.00

Rec'd By _____ Cash/Check No. 018480

FORM 23-100 10-96 White - Health Dept. Yellow - Engineer Pink - Bldg. Inspector

Reviewing Action

B

Permit Number:

Sewage Disposal System
Soil Absorption Test Data Report
Annex to Application

PLEASE PRINT OR TYPE

System Location (Indicate correct number and street)

Address 5500 South Coddington (no rural route) City Lincoln NE, Zip

Owner Address

Soil Type (SCS): Percolation Rate: min./inch

Date of Tests 7/5/05 to 7/6/05 Weather: Precipitation 0 Temperature 90

Percolation Test Data Table

A.	B.	C. D. E. F. Pre-Saturation Period				G. H. I. J. K. Percolation Readings					L. M. N. Results		
		Start		End		Start			End				
Hole No.	Hole Depth (in)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Date (Mo/Da)	Time (Hr/Min)	Water Lev (in.)	Date (Mo/Da)	Time (Hr/Min)	Elapsed Time (Min)	Water Level Drop (In)	Percolation Rates (Min/in)
1	36	7/5	830	7/6	830	7/6	830	6	7/6	1230	30	1/2	60
2	36	7/5	830	7/6	830	7/6	830	6	7/6	1230	30	1/2	60
3	36	7/5	830	7/6	830	7/6	830	6	7/6	1230	30	1/2	60
4	36	7/5	830	7/6	830	7/6	830	6	7/6	1230	30	1/2	60
5	36	7/5	830	7/6	830	7/6	830	6	7/6	1230	30	1/2	60
6	36	7/5	830	7/6	830	7/6	830	6	7/6	1230	30	1 1/4	24

Sum of Percolation Rates:

Average of Rates:

Rate Used for Calculation:

Person Conducting Percolation Tests

Name: Tom Burt Design Associates

Phone: 402 474 3000

Address Lincoln NE 68502

DO NOT WRITE BELOW THIS LINE

Reviewing Action

Remarks

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

C

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.

Indicate North with Arrow

PLEASE SEE ATTACHED DRAWING

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

A. System Location (Indicate correct number and street)

Address (no rural route) 5500 So. CODDINGTON City LINCOLN NE, Zip 68523

B. Proposed Septic Tank/s

Tank Material: ☒ Concrete ☐ Plastic ☐ Other _____

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

Percolation Rate 42 ~~47~~ (min. per inch) Soil Type: WYMORE SILTY CLAY LOAM MED-CLAY Land Slope: 1% N & 1% E %

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

Total Square Feet of Field Required: ~~2300~~ 1465 sq. ft.

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

Capacity of Septic Tank 1500 gals Number of Absorption Beds: _____ Number of Distribution Laterals per Bed _____

Total Length of Laterals ~~488~~ ft. Number of Trenches 10 Trench Width ~~2'~~ 36"

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 John Sampson SAMPSON CONST. Date 12/1/97

Installer Robert R Waldman GREEN'S FUR. & PLBG. CO. INC. Date 12-01-97

FORM 23-102 10-96

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

D

Permit Number:

Sewage Disposal System

As Built Plans & Specifications

Date 12-01-97

System Location (Indicate correct number and street)

Address 5500 So. Coddington (no rural route) City Lincoln NE, Zip 68523

A. Building Sewer

1. Material: Sch. 40 Plastic
   Diameter: 4 in.
2. Distance above basement floor: 60 in.
   or distance below basement floor: _____ in.
3. Distance between dwelling and septic tank: 115 ft.
4. Number of clean-outs: 3
5. Distances to: well or suction line 160 ft.
   Dry stream over 500 ft.
   pressure line 130 ft.
   property line 160 ft.

B. Septic Tank

1. Material: Concrete
   Number of compartments: 3
2. Capacity: 1500 gal.
3. Factory built: ☒ Yes ☐ No
4. Manholes: Over inlet, diameter 4 in.
   Over outlet, diameter 4 in.
   Riser: ☒ above ☐ below grade 1 in.
5. Inlet: ☒ baffle ☐ tee
6. Outlet: ☒ baffle ☐ tee
7. Depth to top of tank, below unfinished grade: 12 in.
8. Distances to: Well or suction line 130 ft.
   Dry Stream over 500 ft.
   Pressure line 130 ft.
   Property line 160 ft.

C. Distribution Box

1. Material: Concrete
   Number available outlets: 5
2. Factory built: ☒ Yes ☐ No
3. Distance from septic tank: 60 ft.

D. Absorption Field

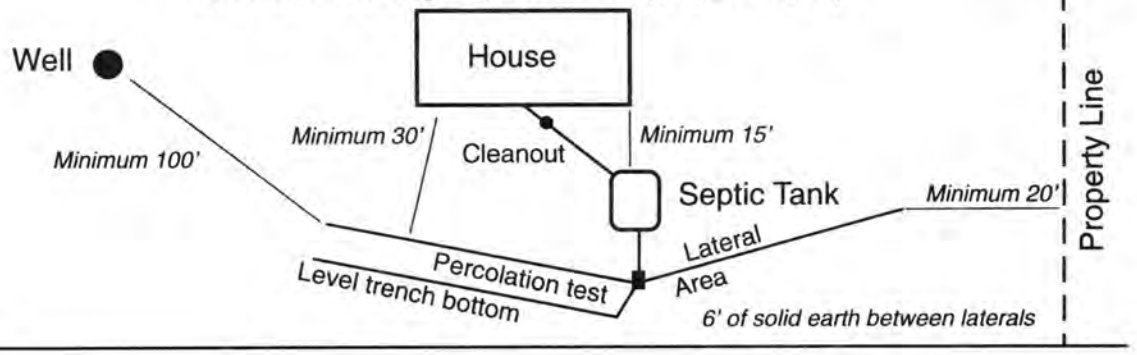
(Provide as-built drawings on back of this form)

1. Type: ☐ Half rounds ☒ Perforated pipe
   Diameter of half round: _____
   or perforated pipe: 4"
   Material: ☐ fiberglass ☒ plastic ☐ concrete
   ☐ other _____
2. Lateral lines: Number 10
   Length of each line: All 50 ft. _____ ft.
   _____ ft. _____ ft., _____ ft.
3. Trench dimensions: Width 2 ft.
   Slope 3" to 4" in/100 ft.
   Average depth 24" in
4. Filter material: Gravel
   Depth of material 24 in.
5. Distances to: Well or suction line 135 ft.
   Dry Stream over 500 ft.
   Pressure line 65 ft.
   Property line 110 ft.

Complete "As Built" drawing on back of this form.

Indicate North with Arrow

Individual Sewage System Design (Example)



OWTS | Emerald Care III | 5/27/05

Existing Conditions:

- 5 bedroom dwelling with whirlpool tub
- perc rate → 42 min/in
- 1500-gal septic tank (3 compartment)
- laterals: 10 @ 3' x 50' x (18" to 24") deep (4" perforated pipe w/ gravel)
  => 1500 sf

Proposed Conditions:

- Assisted Living Facility with 15 beds
- design flow → 65 gal/bed/day (per State of Wisconsin)
  => 15 beds x (65 gal/bed/day) = 975 gal/day
- "establishment" tank capacity = 1.5 x design flow
  = 1.5 x 975 = 1463 => 1500 gal
- "establishment" lateral area = design flow / (5 / √perc)
  = 975 / (5 / √42) = 1264 sf

9/8/05 = 975 / (5 / √60)
= 1510 sf

* Need to perform a perc test. If rate is < 60 min/in, then no additional laterals are required.

Legal Desc.

W.R WATSON RESIDENCE
5500 S. COPPINGTON
LINCOLN, NE. 68523

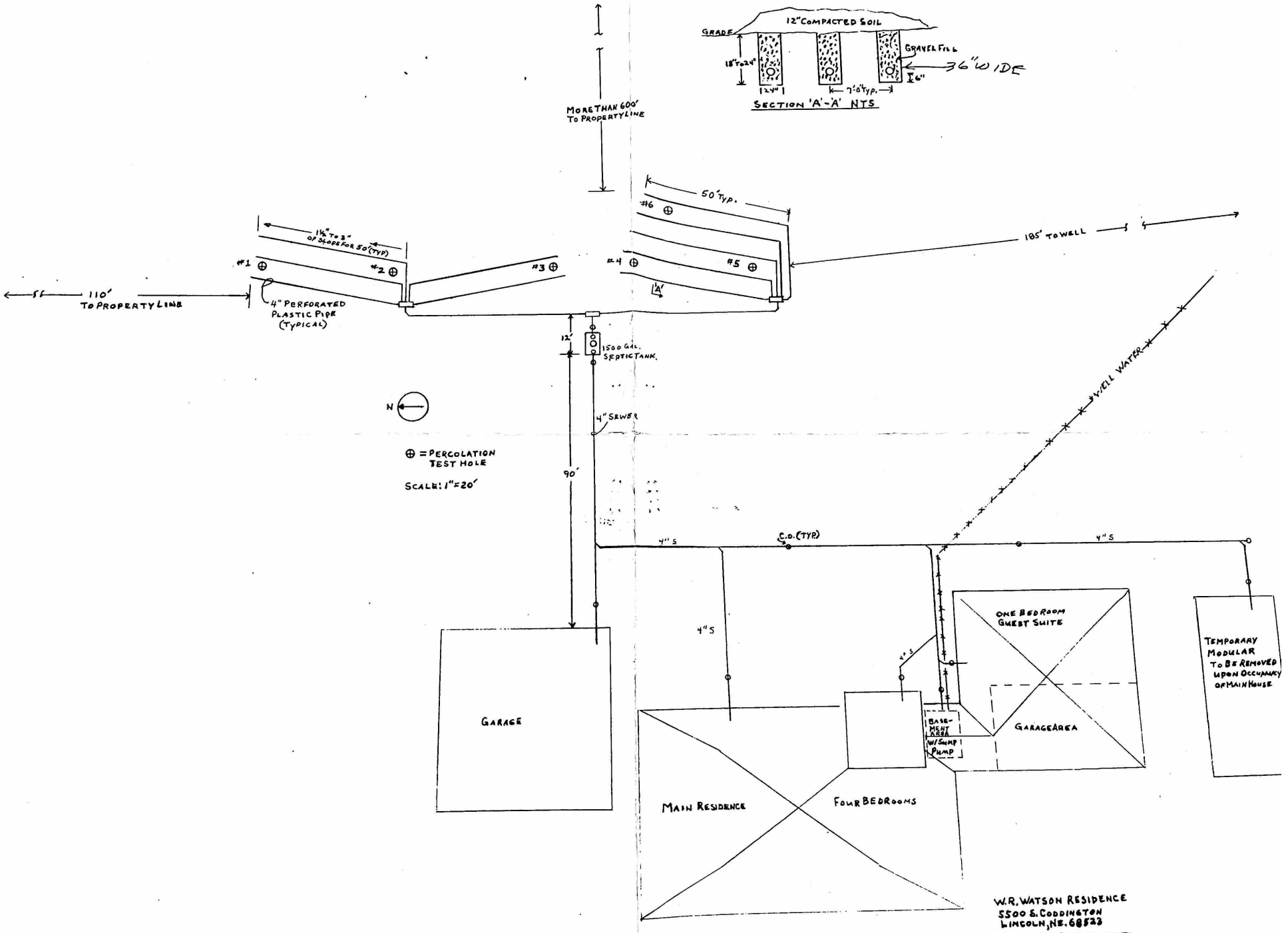
ALLIED SURVEYING AND MAPPING, INC.

6120 So. 58th St., Suite A Lincoln, Nebraska 68516

Telephone 402-434-2686
FAX 402-434-2687

LEGAL DESCRIPTION: (Parcel #2)

Referring to the South One Quarter Corner of Section 9, Township 9 North, Range 6 East of the 6th P.M., Lancaster County, Nebraska, thence in an Easterly direction on the South line of the West One-Half of the Southeast Quarter of said Section 9, a distance of Sixty and No Tenths (60.0) feet said point being the Southwest corner of Lot 31 of Irregular Tracts. Thence in a Northerly direction on an assumed bearing of N 00° 12' 30" W, on the Westerly line of Lot 31, a distance of Six Hundred Ninety-Six and Nine Hundredths (696.09) feet. Thence N 05° 55' 08" W on the Westerly line of said Lot 31, a distance of Fifty-Eight and Seventy-Four Hundredths (58.74) feet to the Point of Beginning. Thence continuing in a North-Northwesterly direction on the last described course, a distance of Forty-One and Seventy-Six Hundredths (41.76) feet to a point Fifty and No Tenths (50.0) feet East of the West line of the Southeast Quarter of said Section 9. Thence N 00° 12' 30" W on the West line of said Lot 31, a distance of Five Hundred Forty-Nine and Twenty-Four Hundredths (549.24) feet to the Southwest corner of Lot 39 of Irregular Tracts. Thence N 89° 56' 40" E on the South line of said Lot 39, a distance of Four Hundred Eighty-Seven and Twenty-Seven Hundredths (487.27) feet to the Southeast corner of said Lot 39. Thence N 00° 18' 27" W on the East line of said Lot 39, a distance of Two Hundred Sixty and One Hundredth (260.01) feet to the Northeast corner of said Lot 39. Thence N 00° 10'18" W, a distance of Two Hundred Sixty and Six Hundredths (260.06) feet to the Southeast corner of Lot 38 of Irregular Tracts. Thence N 00° 13' 53" W on the East line of said Lot 38, a distance of Four Hundred Thirty-Three and Eighty-Seven Hundredths (433.87) feet to the Northeast corner of Lot 38 of Irregular Tracts, said point being also on the South line of Lot 37 of Irregular Tracts. Thence N 89° 57' 02" E on the South line of said Lot 37, a distance of Seven Hundred Seven and Two Tenths (707.2) feet to the Southeast corner of said Lot 37. Thence N 00° 18' 41" W on the East line of said Lot 37, a distance of Three Hundred Ten and Forty-Four Hundredths (310.44) feet to the Southwest corner of Lot 25 of Irregular Tracts. Thence N 89° 55' 54" E on the South line of said Lot 25, a distance of Eighty and Seventy-Nine Hundredths (80.79) feet to the Southeast corner of said Lot 25, said point being also on the East line of the West One-Half of the Southeast Quarter of said Section 9. Thence S 00° 20' 00" E on the East line of said Lot 31 and on the East line of the West One-Half of the Southeast Quarter of said Section 9, a distance of One Thousand Two Hundred Fifty and Sixty-Eight Hundredths (1,250.68) feet. Thence S 50° 48' 32" W, a distance of Nine Hundred Fifty-Eight and Forty-Six Hundredths (958.46) feet. Thence S 90° 00' 00" W on a line parallel to the South line of the West One-Half of the Southeast Quarter of said Section 9, a distance of Five Hundred Twenty-Seven and Seventy-Seven Hundredths (527.77) feet to the Point of Beginning and containing a calculated area of 30.01 Acres more or less.



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