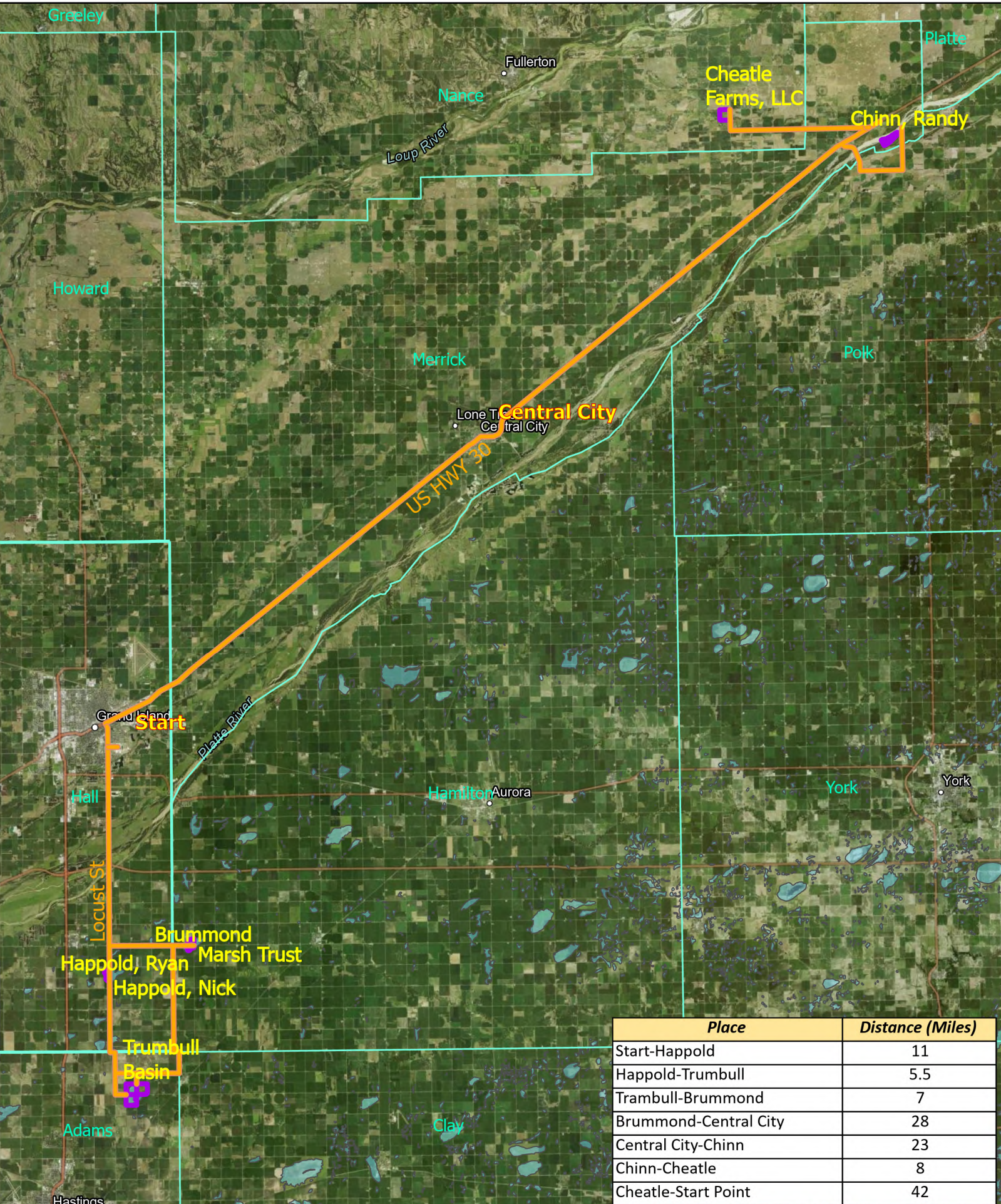


Agriculture Conservation Easement Program Partner Workshop
Heartland Event Center
700 E Stolley Park Rd
Grand Island, NE 68801
December 10 - 12, 2024

- Agenda** **Day II - December 11, 2024: Site Tour Rainwater Basin and Platte River South Central Nebraska**
- 8:00 AM Depart from Heartland Events Center
- 8:25 AM Arrive at **Happold** (Nick & Ryan) tract (45-minute tour stop) – WREP/RCPD restoration.
- 9:25 AM Arrive at **Trumbull Basin** tracts (45-minute tour stop). Adaptive Management Plan in action.
- 10:25 AM Arrive at **Marsh Trust and Brummond** (45-minute tour stop). VRI, pivot bridges, water savings.
- 11:10 AM Depart for Central City
- 12:00 PM Arrive at Central City for Lunch (1 hour)
- 1:00 PM Depart for **Randy Chinn**
- 1:50 PM Arrive at **Randy Chinn** (45-minute tour stop). Riverine restoration considerations
- 2:35 PM Arrive at **Cheatle Farms** (45-minute tour stop)
- 3:20 PM Depart for **Heartland Events Center**
- 4:45 PM Return to **Heartland Events Center**



Sites Route Map



| Place | Distance (Miles) |
|-----------------------|------------------|
| Start-Happold | 11 |
| Happold-Trumbull | 5.5 |
| Trumbull-Brummond | 7 |
| Brummond-Central City | 28 |
| Central City-Chinn | 23 |
| Chinn-Cheatle | 8 |
| Cheatle-Start Point | 42 |

Nick and Ryan Happold



-  Site Boundary
-  Wetland Area
-  Road

0 0.05 0.1 Miles



NEBRASKA WETLANDS RESERVE PROGRAM

PRELIMINARY RESTORATION PLAN **

| | | | |
|-------------------|-------------------------------|-----------------|-----------------------|
| Landowner: | <u>Nick and Tracy Happold</u> | County: | <u>Hall</u> |
| Address: | <u>449 W Binfield Rd</u> | Tract #: | _____ |
| | <u>Doniphan, NE 68832</u> | Legal: | <u>SE4 S2-T9N-R9W</u> |
| | _____ | Site Ac: | <u>42</u> |
| | _____ | Date: | <u>5/2/2019</u> |

| |
|--|
| LANDOWNER OBJECTIVES: |
| Restore native grasslands, native wildlife habitat and wetlands to the fullest extent possible |
| TEAM OBJECTIVES: |
| Restore native grasslands, native wildlife habitat and wetlands to the fullest extent possible |

| FIELD # | PRACTICE | QNT | UNIT \$ | EST. COST |
|---------|---|-------|-------------|------------|
| W1 | (644/645) Wetland and Upland Wildlife Habitat | 42 | ac | --- |
| W1 | (657) Wetland Restoration | 29 | ac | --- |
| W1 | (657) Earthfill - Pit Fill (yd3) | 37500 | \$4.00 | \$150,000 |
| W1 | (460) Land Clearing - Tree removal, burn/bury | 7 | \$3,400.00 | \$23,800 |
| W2 | (642) Well (ft) | 200 | \$50.00 | \$10,000 |
| W2 | (533) Pumping Plant (Each) | 1 | \$10,000 | \$10,000 |
| W2 | (614) Tank (Ea) | 1 | \$5,000 | \$5,000 |
| W2 | (382) Fence (Ft) | 5000 | \$2.00 | \$10,000 |
| W2 | RWBJV Financing Grazing Infrastructure | 1 | \$35,000.00 | (\$35,000) |
| W3 | (315) Herbaceous Weed Control (acres) | 13 | \$50.00 | \$650 |
| W3 | (550) Range Seeding - seed, site prep (acres) | 13 | \$400.00 | \$5,200 |
| | | | | |

TOTAL ESTIMATED RESTORATION COST \$179,650

| |
|---|
| NOTES: 179650 / 42 = 4278 \$/ac |
| Please note that the Preliminary Restoration Plan has been completed in the absent of necessary information needed to finalize restoration plans such as topographic surveys, biological surveys and sediment investigations. This can lead to changes in planned activities, estimated quantities and actual cost. |

| |
|--|
| INITIAL & DATE - LANDOWNER: <u>NH 5-8-19</u> NRCS: <u>MP 5/8/19</u> FWS/NG&P: _____ |
|--|

**** Attach photo with easement boundaries and practice locations identified.**

Legal Description: PRELIMINARY RESTORATION MAP

Date: 5/1/2019

SE4 S2-T9N-R9W

Approximate Acres: 42

Customer(s): Nick and Tracy Happold

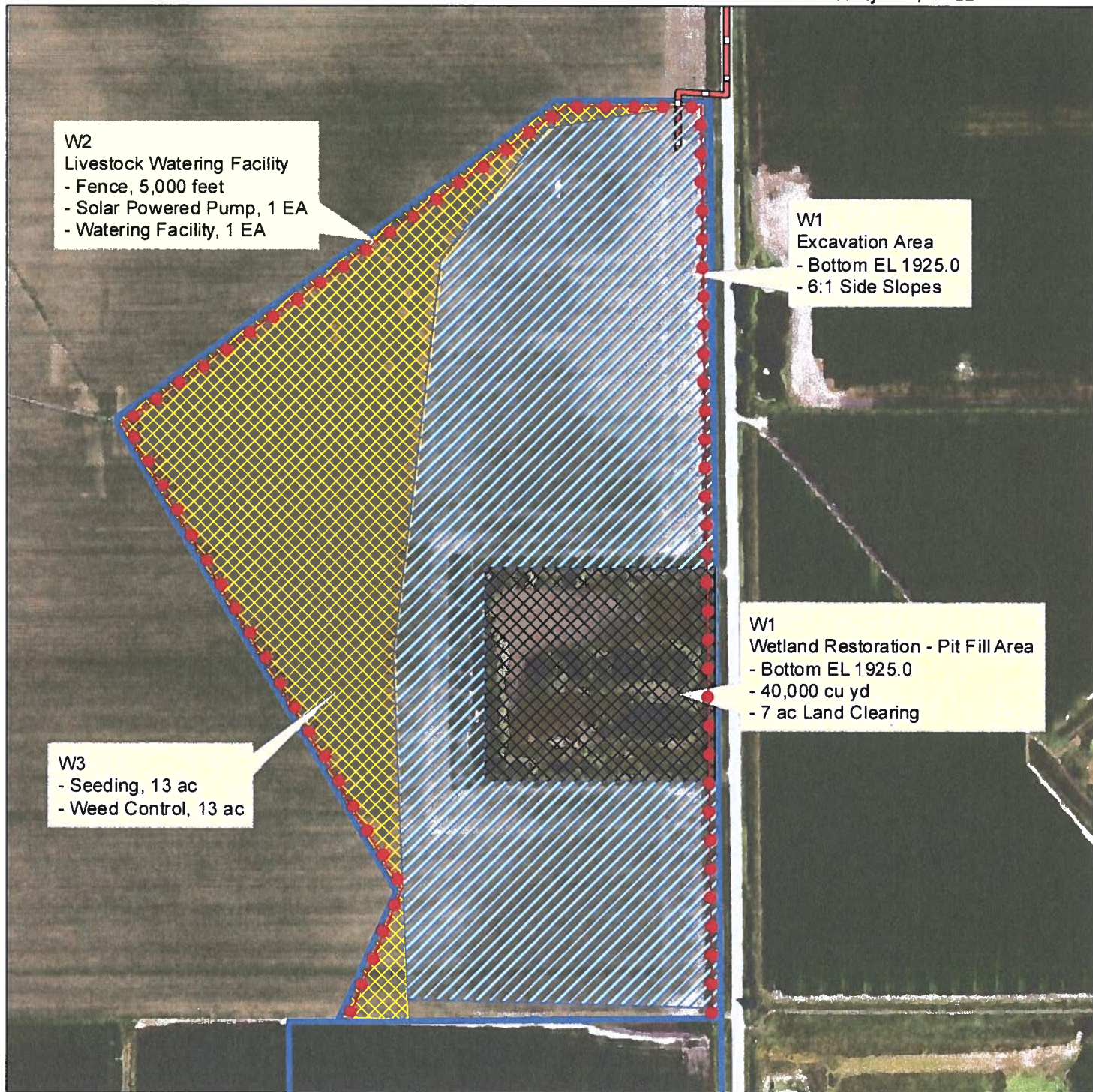
District: Central Platte NRD

Field Office: GI AREA OFFICE

Agency: USDA / NRCS

Assisted By: NATE GARRETT

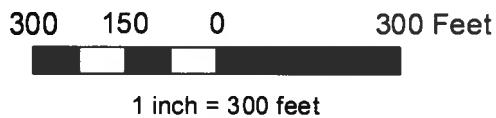
State and County: NE, HALL



- Ingress
- Fence

Legend

- Easement Application FY19
- Seeding
- Earthfill
- Excavation



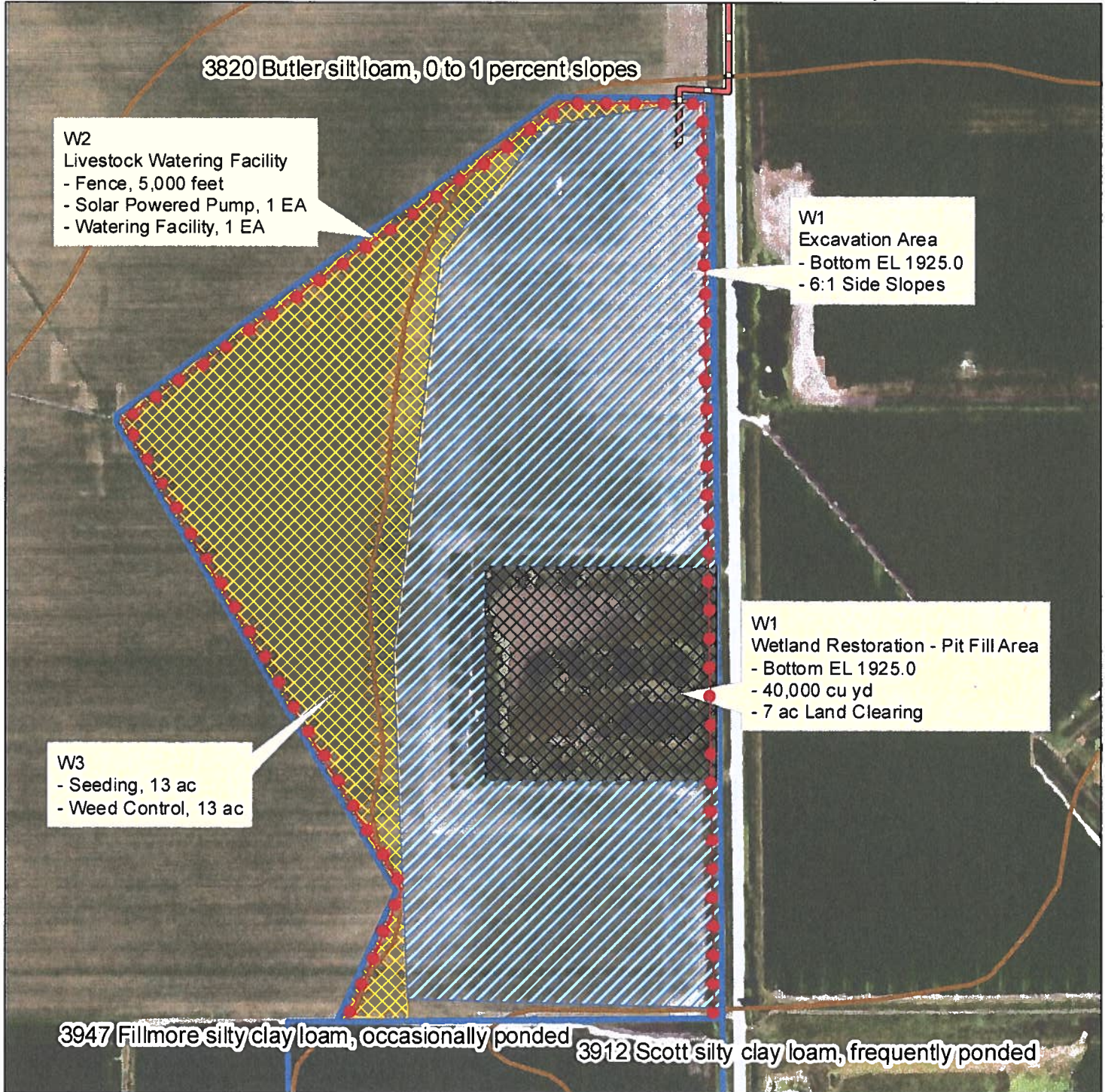
**Legal Description:
SE4 S2-T9N-R9W**

SOILS

Date: 5/1/2019

Approximate Acres: 42
Customer(s): Nick and Tracy Happold
District: Central Platte NRD

Field Office: GI AREA OFFICE
Agency: USDA / NRCS
Assisted By: NATE GARRETT
State and County: NE, HALL



3820 Butler silt loam, 0 to 1 percent slopes

W2
Livestock Watering Facility
- Fence, 5,000 feet
- Solar Powered Pump, 1 EA
- Watering Facility, 1 EA

W1
Excavation Area
- Bottom EL 1925.0
- 6:1 Side Slopes

W1
Wetland Restoration - Pit Fill Area
- Bottom EL 1925.0
- 40,000 cu yd
- 7 ac Land Clearing

W3
- Seeding, 13 ac
- Weed Control, 13 ac

3947 Fillmore silty clay loam, occasionally ponded

3912 Scott silty clay loam, frequently ponded

Legend

Ingress

Easement Application FY19

Fence

Soils

Seeding

Earthfill

Excavation

300 150 0 300 Feet

1 inch = 300 feet



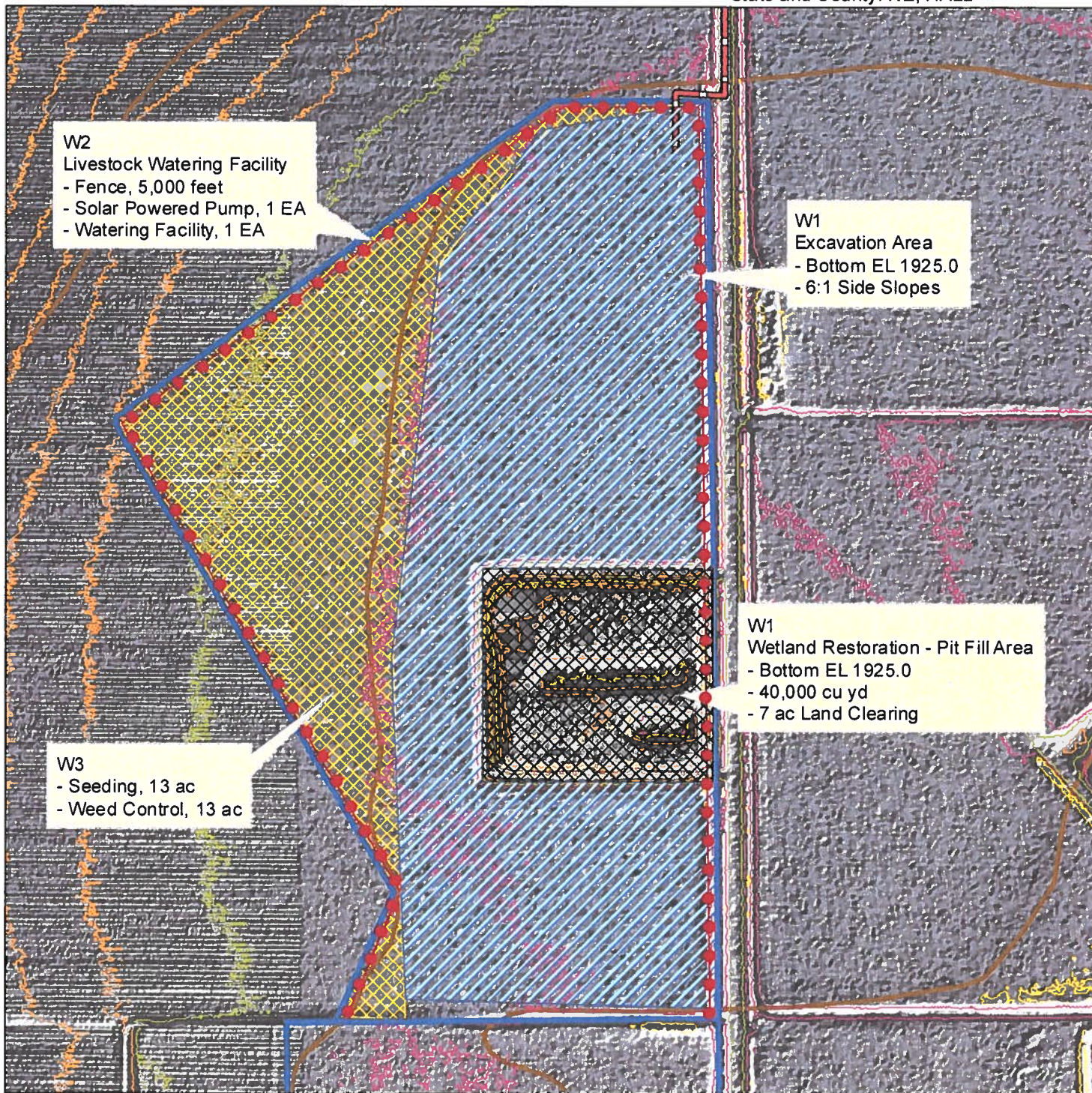
**Legal Description:
SE4 S2-T9N-R9W**

TOPOGRAPHIC MAP












Date: 5/1/2019

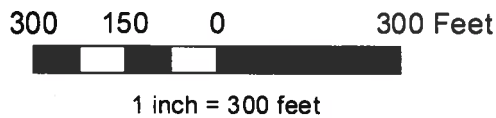
Approximate Acres: 42
Customer(s): Nick and Tracy Happold
District: Central Platte NRD

Field Office: GI AREA OFFICE
Agency: USDA / NRCS
Assisted By: NATE GARRETT
State and County: NE, HALL



Legend

- | | |
|---|---------------------------|
|  | Ingress |
|  | Easement Application FY19 |
|  | Soils |
|  | Seeding |
|  | Earthfill |
|  | Excavation |
|  | Fence |
|  | 2 ft Contours |
|  | 1924 |
|  | 1926 |
|  | 1928 |



NEBRASKA WETLANDS RESERVE PROGRAM

PRELIMINARY RESTORATION PLAN **

| | | | |
|-------------------|--------------|-----------------|---------------------|
| Landowner: | Ryan Happold | County: | Hall |
| Address: | | Tract #: | |
| | | Legal: | NE4 SE4 S16-T9N-R9W |
| | | Site Ac: | 15.6 |
| | | Date: | 5/1/2019 |

| |
|--|
| LANDOWNER OBJECTIVES: |
| Restore native grasslands, native wildlife habitat and wetlands to the fullest extent possible |
| TEAM OBJECTIVES: |
| Restore native grasslands, native wildlife habitat and wetlands to the fullest extent possible |

| FIELD # | PRACTICE | QNT | UNIT \$ | EST. COST |
|---------|---|-------|----------|------------------------------------|
| W1 | (644/645) Wetland and Upland Wildlife Habitat | 15.6 | ac | --- |
| W1 | (657) Wetland Restoration | 9.6 | ac | --- |
| W1 | (657) Excavation (yd3) | 10000 | \$4.00 | << Subsidiary to North Pit Fill >> |
| W1 | (657) Culvert and Access Road (ft) | 40 | \$100.00 | \$4,000 |
| W2 | (382) Fence (Ft) | 2500 | \$2.00 | \$5,000 |
| W3 | (315) Herbaceous Weed Control (acres) | 6 | \$50.00 | \$300 |
| W3 | (550) Range Seeding - seed, site prep (acres) | 6 | \$400.00 | \$2,400 |
| | | | | |

TOTAL ESTIMATED RESTORATION COST \$11,700

| |
|---|
| NOTES: 11700 / 15.6 = 750 \$/ac |
| Please note that the Preliminary Restoration Plan has been completed in the absent of necessary information needed to finalize restoration plans such as topographic surveys, biological surveys and sediment investigations. |
| This can lead to changes in planned activities, estimated quantities and actual cost. |

| | | |
|--|--------------------|----------------------------|
| INITIAL & DATE - LANDOWNER: _____ | NRCS: _____ | FWS/NG&P: _____ |
|--|--------------------|----------------------------|

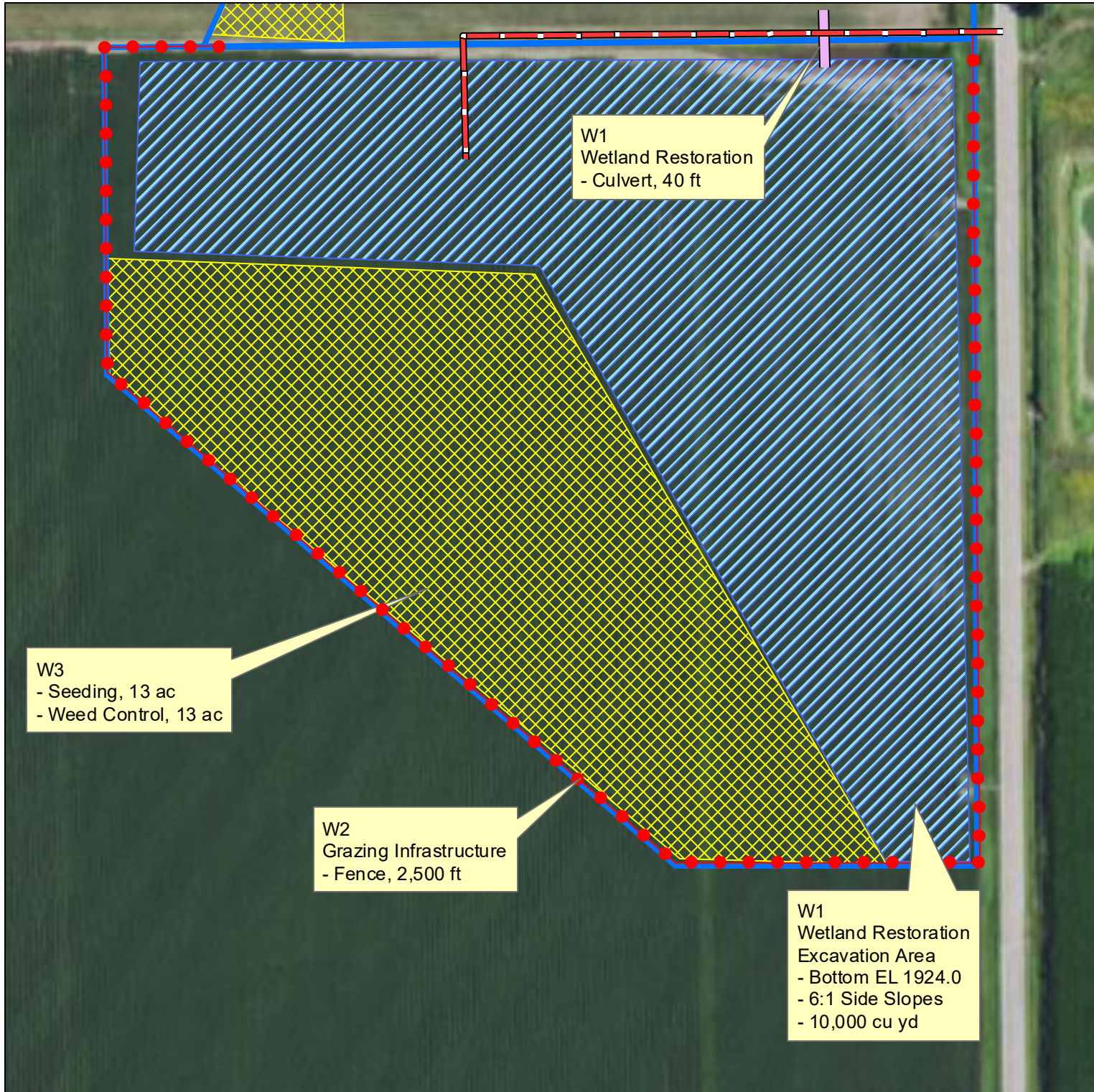
**** Attach photo with easement boundaries and practice locations identified.**

Legal Description: PRELIMINARY RESTORATION MAP
NE4 SE4 S16-T9N-R9W





Date: 5/1/2019

Approximate Acres: 15.6
 Customer(s): Ryan Happold
 District: Central Platte NRD

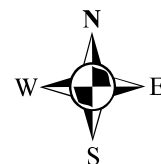
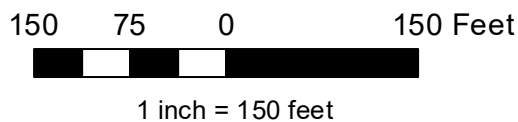
Field Office: GI AREA OFFICE
 Agency: USDA / NRCS
 Assisted By: NATE GARRETT
 State and County: NE, HALL



Legend

-  Easement Application FY19
-  Seeding
-  Earthfill
-  Excavation

-  Ingress
-  Fence



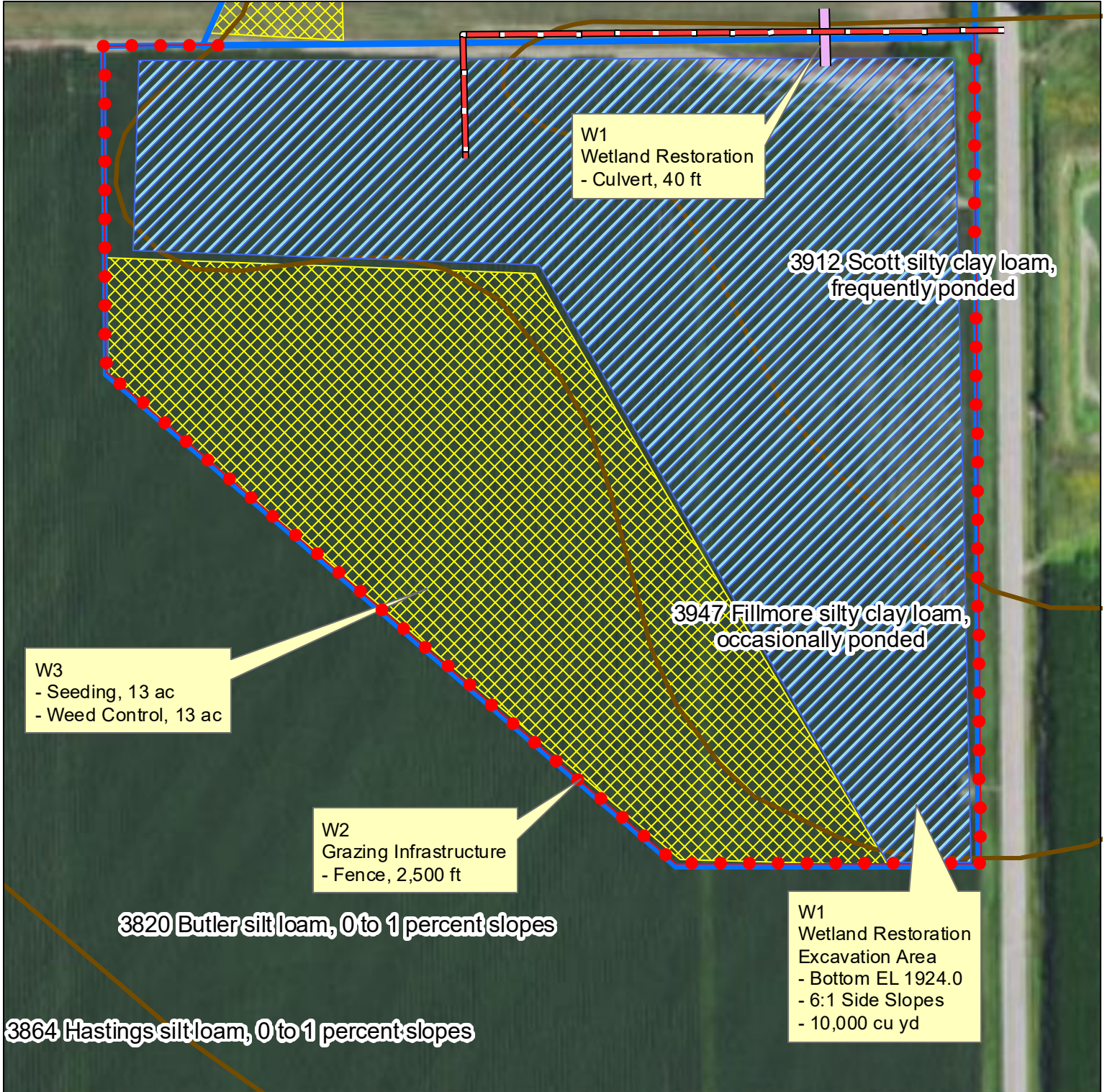
**Legal Description:
NE4 SE4 S16-T9N-R9W**

SOILS






Date: 5/1/2019

Approximate Acres: 15.6
Customer(s): Ryan Happold
District: Central Platte NRD

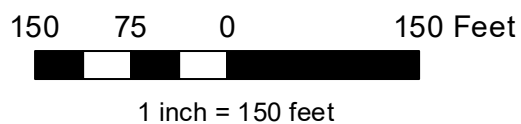
Field Office: GI AREA OFFICE
Agency: USDA / NRCS
Assisted By: NATE GARRETT
State and County: NE, HALL



Legend

-  Soils
-  Easement Application FY19
-  Seeding
-  Earthfill
-  Excavation

-  Ingress
-  Fence



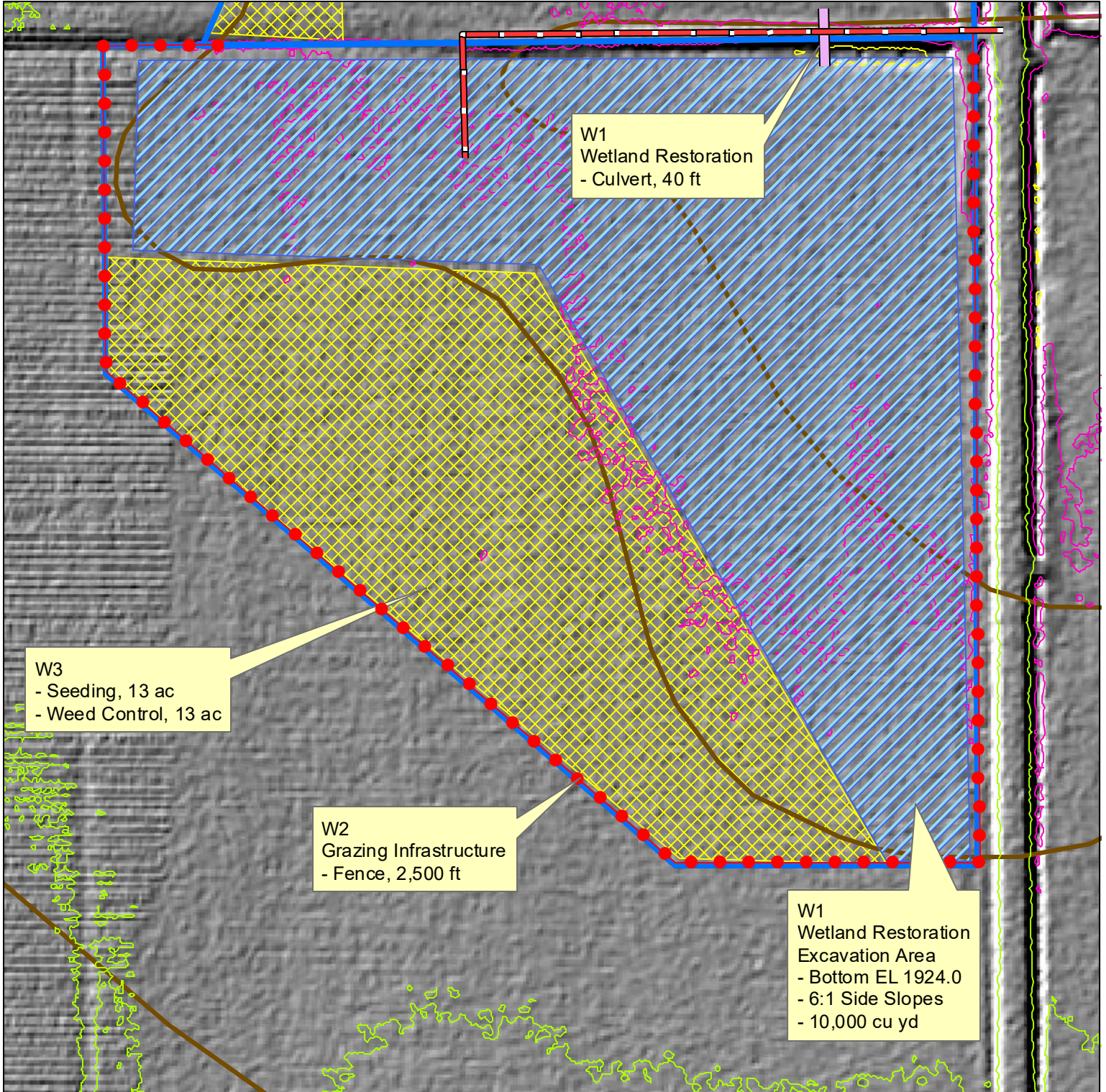
**Legal Description:
NE4 SE4 S16-T9N-R9W**

TOPOGRAPHIC MAP

Date: 5/1/2019

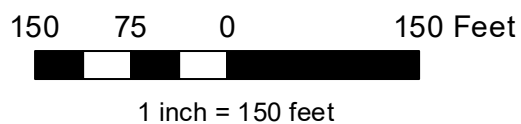
Approximate Acres: 15.6
Customer(s): Ryan Happold
District: Central Platte NRD

Field Office: GI AREA OFFICE
Agency: USDA / NRCS
Assisted By: NATE GARRETT
State and County: NE, HALL



Legend

- Easement Application FY19
- Soils
- Seeding
- Earthfill
- Excavation
- Ingress
- Fence
- 2 ft Contours
- 1924
- 1926
- 1928

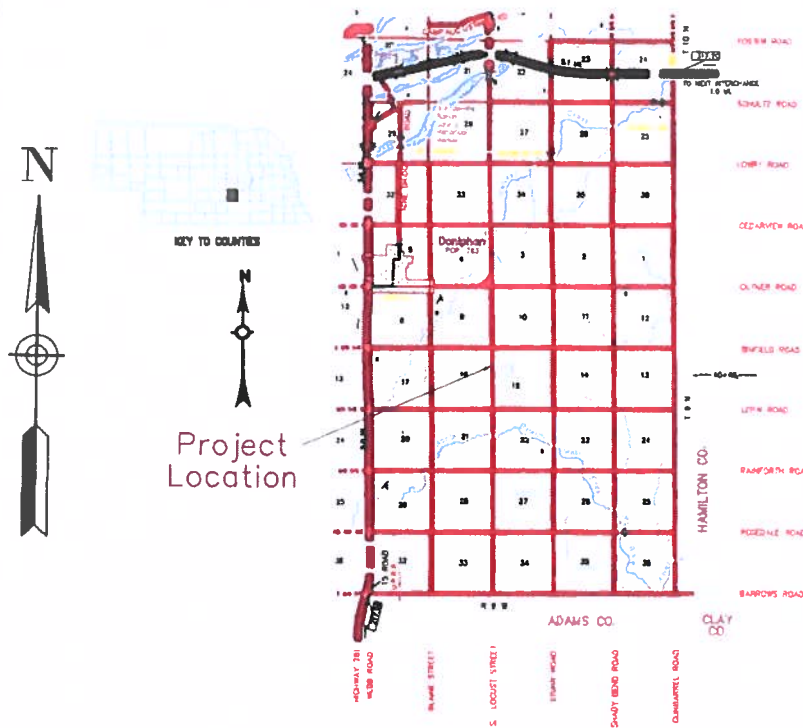


NICK AND RYAN HAPPOLD WETLAND RESTORATION

Contracts 5565261901RMV, 5465261901RMX
Hall County, NE



DESIGNED BY: NATURAL RESOURCES CONSERVATION SERVICE
Grand Island, NEBRASKA



E2 S16-T9N-R9W
HALL County, Nebraska
LOCATION MAP

I have reviewed and agree with this set of drawings and specifications provided to me by the NRCS.
[Signature] 8/24/2021
MPPD Date

I have reviewed and agree with this set of drawings and specifications provided to me by the NRCS.
[Signature] 2021-08-16
Hall County Date

I have reviewed and agree with this set of drawings and specifications provided to me by the NRCS.
[Signature] 8-17-21
Landowner Date

I have reviewed and agree with this set of drawings and specifications provided to me by the NRCS.
[Signature] 8-17-21
Landowner Date

Construction was completed in accordance with approved construction drawings and specifications by the NRCS.

NRCS - Designer Date

SHEET INDEX

1. Cover Sheet
2. Design and Layout Data
3. Plan View and Layout Points, Aerial
4. Plan View and Layout Points
5. Cross Sections, North-South, West-East
6. Profiles, Utility, North Earthwork

NE CONSTRUCTION AND MATERIAL SPECIFICATIONS

- NE-1 Site Preparation & Structure Removal
- NE-2A Clearing and Grubbing
- NE-6 Seeding & Mulching for Protective Cover
- NE-11 Removal of Water
- NE-21 Excavation
- NE-23 Earth Fill
- CPA-B Seed Mix

IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE A LOCATE REQUEST WITH THE NEBRASKA ONE-CALL SYSTEM AT LEAST 2 FULL BUSINESS DAYS (BUT NO MORE THAN 10 DAYS) BEFORE CONSTRUCTION. CONTACT NE1CALL.COM, 811 OR 1-800-331-5666

| | | | |
|----------|------------|------|-----------|
| Designed | NGARRETT | Date | 8/3/2021 |
| Drawn | NGARRETT | | 8/3/2021 |
| Checked | TS Mooney | | |
| Approved | N. Garrett | | 8/10/2021 |

HAPPOLD
657 WETLAND RESTORATION
COVER SHEET

E2 S16-T9N-R9W



**SPECIFICATIONS AND DRAWINGS
APPROVED FOR CONSTRUCTION**

Signature: Travis Mooney, ACET
REVIEWED BY: NATHAN GARRETT Digitally signed by NATHAN GARRETT TITLE
Date: 2021.08.10 16:27:24 -05'00'
Signature: _____
APPROVED BY: _____ TITLE

NRCS JOB CLASS 3
NE WETLAND SHEET REV. 01/2016

File No.
Happold_2021-08-02.dwg
Drawing No.
8/10/21 3:37 PM
Sheet 1 of 6

NICK AND RYAN HAPPOLD WETLAND RESTORATION

Contracts 5565261901RMV, 5465261901RMX
Hall County, NE



DESIGNED BY: NATURAL RESOURCES CONSERVATION SERVICE
Grand Island, NEBRASKA

I have reviewed and agree with this set of drawings and specifications provided to me by the NRCS.

NPPD _____ Date _____

I have reviewed and agree with this set of drawings and specifications provided to me by the NRCS.

Hall County _____ Date _____

I have reviewed and agree with this set of drawings and specifications provided to me by the NRCS.

Nick Happold

Landowner _____ Date 8-17-21

I have reviewed and agree with this set of drawings and specifications provided to me by the NRCS.

Ryan Happold

Landowner _____ Date 8-17-21

Construction was completed in accordance with approved construction drawings and specifications by the NRCS.

NRCS - Designer _____ Date _____

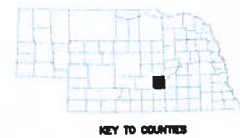
SHEET INDEX

1. Cover Sheet
2. Design and Layout Data
3. Plan View and Layout Points, Aerial
4. Plan View and Layout Points
5. Cross Sections, North-South, West-East
6. Profiles, Utility, North Earthwork

NE CONSTRUCTION AND MATERIAL SPECIFICATIONS

- NE-1 Site Preparation & Structure Removal
- NE-2A Clearing and Grubbing
- NE-6 Seeding & Mulching for Protective Cover
- NE-11 Removal of Water
- NE-21 Excavation
- NE-23 Earth Fill
- CPA-8 Seed Mix

IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE A LOCATE REQUEST WITH THE NEBRASKA ONE-CALL SYSTEM AT LEAST 2 FULL BUSINESS DAYS (BUT NO MORE THAN 10 DAYS) BEFORE CONSTRUCTION. CONTACT NE1CALL.COM, 811 OR 1-800-331-5666



Project Location

E2 S16-T9N-R9W

HALL County, Nebraska

LOCATION MAP

Date 8/3/2021
 Designed NGARRETT
 Drawn NGARRETT
 Checked TSMooney
 Approved NGarrett 8/10/2021

HAPPOLD
657 WETLAND RESTORATION
COVER SHEET



File No. Happold_2021-08-02.dwg
 Drawing No. _____
 8/10/21 3:37 PM
 Sheet 1 of 6

**SPECIFICATIONS AND DRAWINGS
APPROVED FOR CONSTRUCTION**

Signature: Travis Mooney, ACET
 REVIEWED BY: **NATHAN GARRETT** Digitally signed by NATHAN GARRETT TITLE _____
 Date: 2021.08.10 16:27:24 -05'00'
 Signature: _____
 APPROVED BY: _____ TITLE _____

NRCS JOB CLASS 3
NE WETLAND SHEET REV. 01/2016

| ESTIMATED TABLE OF QUANTITIES | | | |
|--|------|----------|----------|
| ITEM | UNIT | QUANTITY | AS-BUILT |
| Site Preparation and Structure Removal, Pit Area | EA | 1 | |
| Land Clearing and Grubbing, Pit Area | AC | 5.8 | |
| Site Preparation, Disking Exc Area 1 | AC | 11.0 | |
| Site Preparation, Disking Exc Area 2 | AC | 2.6 | |
| Excavation, Stripping, Pit Area | CY | 2900 | |
| Excavation, Stripping, Ditch Fill | CY | 1800 | |
| Excavation, Ditch Fill | CY | 1000 | |
| Excavation Area 1 | CY | 33300 | |
| Excavation Area 2 | CY | 3,300 | |
| Total Excavation | | 42,300 | |
| Earthfill - Stripping, Pit Area | CY | 3600 | |
| Earthfill - Pit | CY | 29000 | |
| Earthfill - Stripping, Ditch Fill | CY | 2300 | |
| Earthfill - Ditch Fill | CY | 8900 | |
| Total Earthfill | CY | 43,800 | |
| Seed / Seeding (Ditch Fill) | AC | 3.4 | |

Site Preparation includes mobilization / demobilization, removal and disposal of culverts in excavation or earthfill areas, and site dewatering.

Excavation is subsidiary to Earthfill for payment.

Earthfill quantities are figured using 25% shrinkage.

| LAYOUT & CONTROL POINTS | | | | |
|-------------------------|-------------|------------|-----------|-----------------|
| Pt. Name | Northing | Easting | Elevation | Description |
| 600 | 14802158.04 | 1823233.93 | 1928.50 | Z DitchFill Top |
| 601 | 14801623.09 | 1823240.89 | 1928.50 | Z DitchFill Top |
| 602 | 14801283.17 | 1823244.57 | 1928.50 | Z DitchFill Top |
| 603 | 14800782.46 | 1823249.42 | 1928.50 | Z DitchFill Top |
| 604 | 14800480.91 | 1823254.08 | 1928.50 | Z DitchFill Top |
| 605 | 14800386.55 | 1823254.88 | 1928.50 | Z DitchFill Top |
| 620 | 14802194.28 | 1823157.72 | 1924.10 | Z ExcArea1 |
| 621 | 14800385.83 | 1823178.93 | 1924.10 | Z ExcArea1 |
| 622 | 14800314.02 | 1823095.26 | 1924.10 | Z ExcArea1 |
| 623 | 14800588.70 | 1822785.51 | 1924.10 | Z ExcArea1 |
| 624 | 14800960.85 | 1822607.41 | 1924.10 | Z ExcArea1 |
| 625 | 14801796.02 | 1822734.54 | 1924.10 | Z ExcArea1 |
| 640 | 14800134.50 | 1823122.92 | 1924.10 | Z ExcArea2 |
| 641 | 14799890.87 | 1823115.73 | 1924.10 | Z ExcArea2 |
| 642 | 14799844.36 | 1823061.70 | 1924.10 | Z ExcArea2 |
| 643 | 14799941.73 | 1822953.63 | 1924.10 | Z ExcArea2 |
| 644 | 14800013.12 | 1822918.62 | 1924.10 | Z ExcArea2 |
| 645 | 14800114.07 | 1822899.12 | 1924.10 | Z ExcArea2 |
| 646 | 14800814.98 | 1823209.01 | 1928.50 | Z Ditchfill Top |
| 647 | 14800780.54 | 1823195.59 | 1928.50 | Z Ditchfill Top |
| 648 | 14801238.39 | 1823204.17 | 1928.50 | Z Ditchfill Top |

GENERAL NOTES

- If cultural resources are discovered during construction, discontinue construction and notify the local Natural Resources Conservation Service office.
- The landowner is responsible for complying with all federal, state, and local laws.
- Contractor shall provide all applicable road and highway safety signage including but not limited to "Road Work Ahead" and "Should Work".

CONSTRUCTION NOTES

- Clearing areas, clearing and grubbing areas, and construction work limits are generally bounded by the toes of the embankment and borrow areas as shown on the drawings. Exact locations of the work limits will be staked by the NRCS before construction begins.
- Trees within the work limits will be disposed of in the approximate area as shown on the drawings. All roots/limbs and other tree parts larger than 1 inch diameter shall be picked up and placed on tree piles for burn and bury. Multiple piles of tree burning is allowed, the contractor shall remove all signs of tree removal, piling, and burning. Exact limits of the tree disposal area will be staked by the NRCS at the time of construction.
- Waste material that cannot be spread in adjacent fields (stumps, trees, fence materials, concrete rubble, etc.) will be buried in the area shown. No waste material will be placed in the pool area unless it is buried or covered by at least 3 feet of earthfill and the finished surface blended in with the surrounding topography. Exact limits of waste material burial/disposal areas will be staked by NRCS at the time of construction.
- Fences and other structures (culverts) within the work limits will be removed by the contractor.
- The primary earthfill borrow area location shall be Excavation Area 1. Upon completion of Excavation Area 1 limits and grade or at the discretion of the NRCS inspector, Excavation Area 2 shall be utilized as borrow to complete earthfill operations. Exact limits of the borrow areas will be staked by the NRCS at the time of construction. All finished borrow slopes will be a minimum of 50:1.
- Excavation tolerances on all borrow areas are to grade or -0.2 feet of elevation shown on the drawings.
- Earthfill tolerances are to grade or +0.2 feet of elevation shown on the drawings.
- Ditch Fill activities shall maintain or create a 4 foot shoulder width from edge of pavement to start of 8:1 side slopes or as defined by Hall County Highway Superintendent.
- Any shale, gravel, or sand that is exposed during borrow operations shall be immediately backfilled with 2 feet of clay material.

- All surfaces beneath earthfill and borrow areas will be stripped to a depth of 4 inches minimum. Strippings will be stockpiled and used as topsoil on finished pit earthfill surface. Topsoiling shall be final neat line grades. The NRCS inspector will approve the stripping limits prior to backfill or earthfill operations.
- The pit shall be dewatered prior to earthfill. Prior to earthfill, the contractor must be able to cross thawed pit foundation with loaded equipment. The contractor is responsible for obtaining all permissions and permits to discharge the water outside the construction limits. If temporary works are built to contain the pit water, all temporary detained water must be released after construction is complete. Payment for dewatering is included in Site Preparation scope of work.

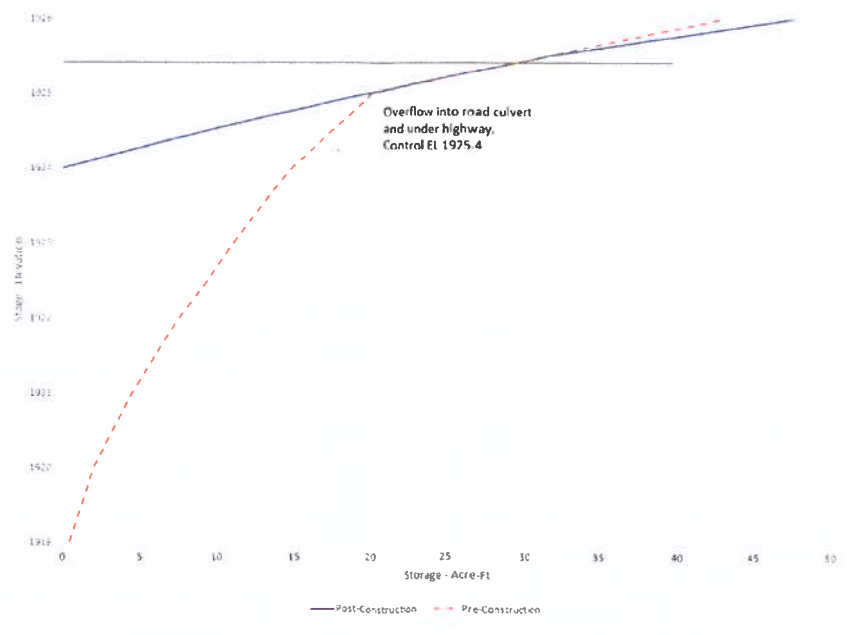
- Area designated as "Control Area" on plan map not to be disturbed. If impacted, the area shall be returned to same elevations and grades as pre-construction.

DESIGN DATA
See design report for more details.

| HYDROLOGIC DATA | | |
|-----------------|-----|---------|
| Drainage Area | 364 | Acres |
| Watershed Slope | 2.2 | Percent |

| PRE-CONSTRUCTION CAPACITY TABLE | | |
|---------------------------------|-------|------------|
| ELEV | ACRES | CUM. AC-FT |
| 1919 | 12 | 0.5 |
| 1920 | 2 | 2.0 |
| 1921 | 9 | 4.5 |
| 1922 | 3.3 | 7.6 |
| 1923 | 3.6 | 11.1 |
| 1924 | 4.0 | 14.8 |
| 1925 | 9.3 | 20.1 |
| 1926 | 39.8 | 43.0 |

| POST-CONSTRUCTION CAPACITY TABLE | | |
|----------------------------------|-------|------------|
| ELEV | ACRES | CUM. AC-FT |
| 1924.1 | 17.5 | 0 |
| 1924.5 | 19.7 | 9.3 |
| 1925.0 | 22.2 | 19.8 |
| 1925.5 | 25.3 | 31.6 |
| 1926.0 | 40.3 | 47.6 |



| LAYOUT & CONTROL POINTS | | | | |
|-------------------------|-------------|------------|-----------|-------------|
| Pt. Name | Northing | Easting | Elevation | Description |
| opus1 | 14802333.60 | 1823156.09 | 1925.62 | STA A |
| 301 | 14800254.41 | 1823180.62 | 1925.64 | BM-BND |
| 302 | 14800247.08 | 1822396.45 | 1925.59 | BM-BND |
| 303 | 14800186.25 | 1822289.36 | 1926.33 | BM-BND |

Date: 8/3/2021
 Designed: NGARRETT
 Drawn: NGARRETT
 Checked: TSMooney
 Approved: TSMooney 8/10/2021

HAPPOLD WETLAND RESTORATION
DESIGN DATA

657 WETLAND RESTORATION

HALL County, Nebraska

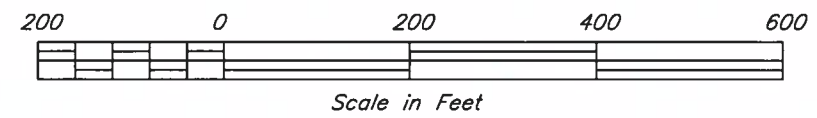
E2 S16-T9N-R9W

United States Department of Agriculture
 Natural Resources Conservation Service

File No. Happold_2021-08-02.dwg
 Drawing No. -
 8/10/21 3:37 PM
 Sheet 2 of 6



PLAN VIEW



| | |
|----------|--------------------|
| Date | 8/3/2021 |
| Designed | NGARRETT |
| Drawn | NGARRETT |
| Checked | TSMooney |
| Approved | Ngarrett 8/10/2021 |

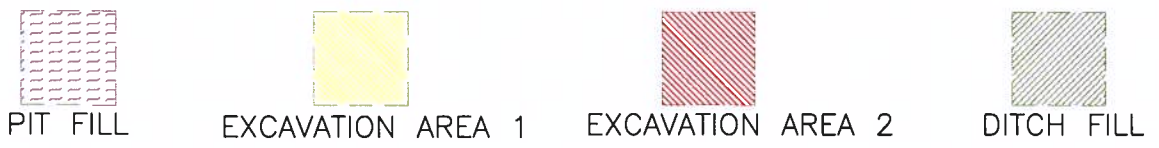
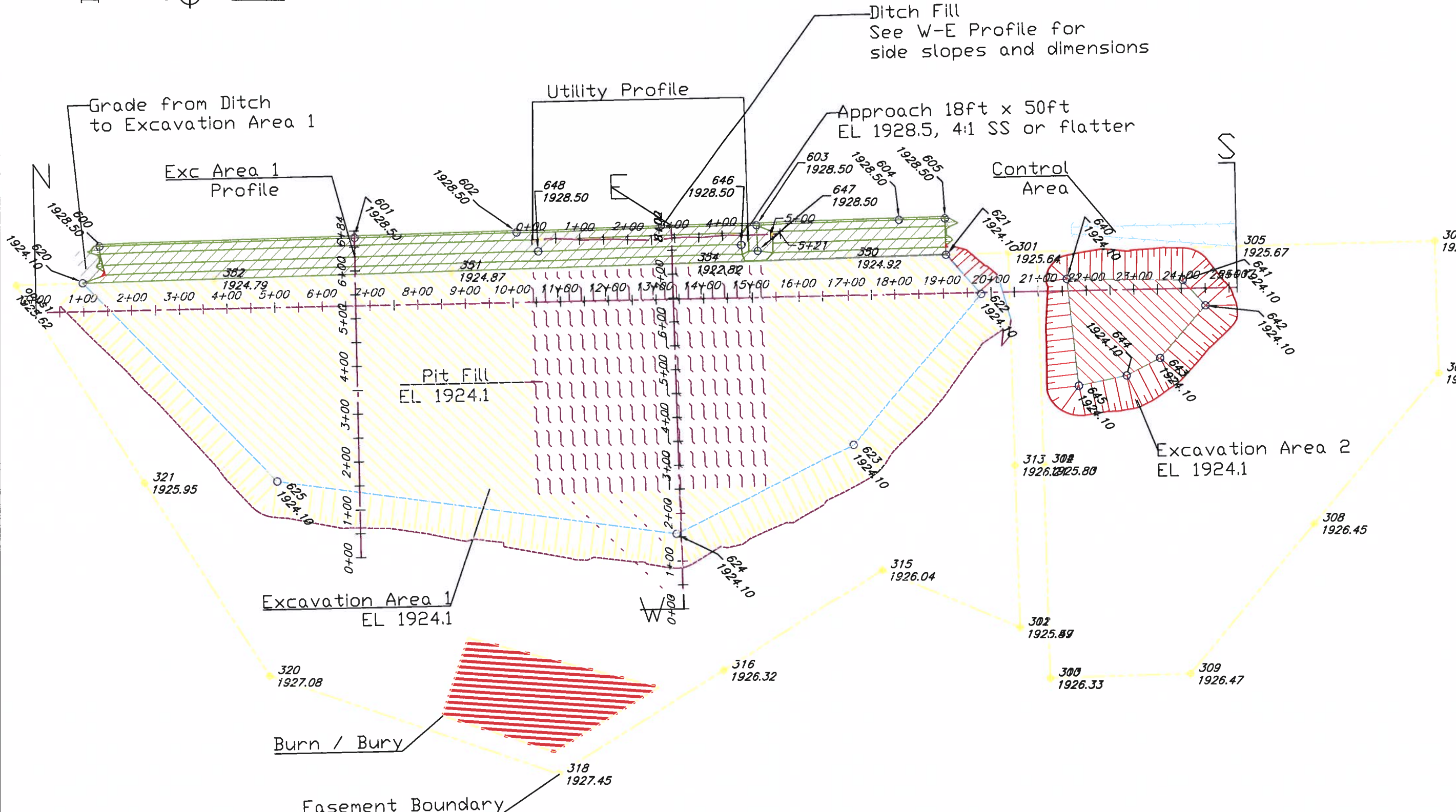
HAPPOLD
657 WETLAND RESTORATION
PLAN VIEW

E2 S16-T9N-R9W

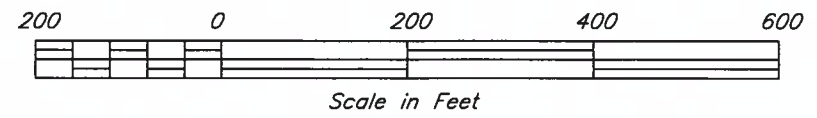
HALL County, Nebraska



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| File No. | Happold_2021-08-02.dwg |
| Drawing No. | - |
| Date | 8/10/21 3:37 PM |
| Sheet | 3 of 6 |



PLAN VIEW

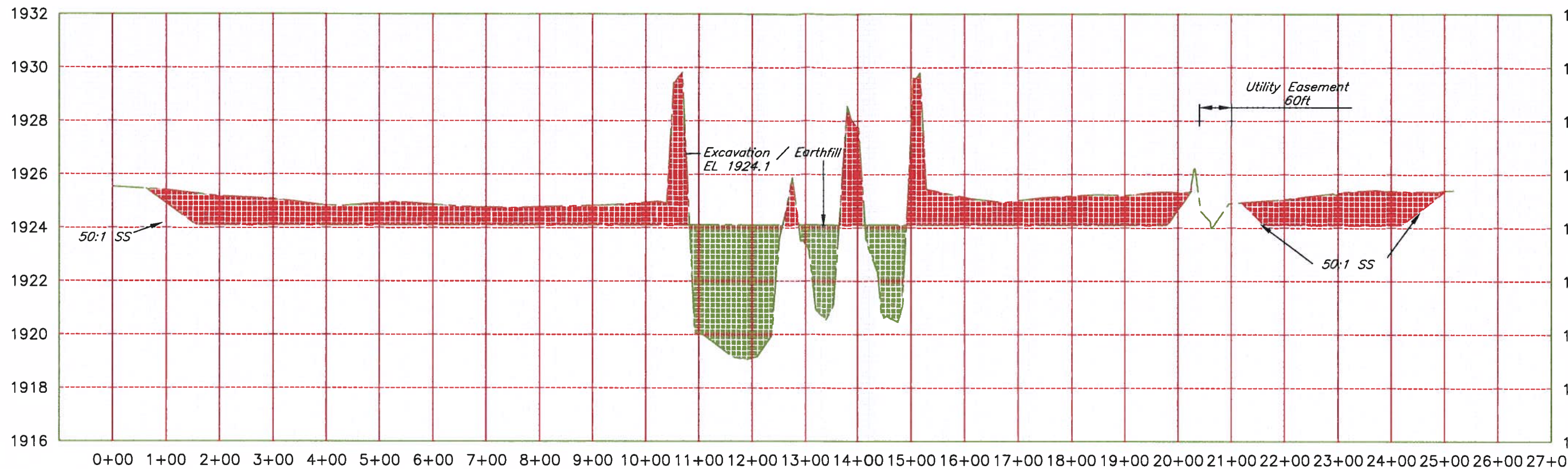


Date 8/3/2021
 Designed NGARRETT
 Drawn NGARRETT
 Checked TSMooney
 Approved NGarrett 8/10/2021

HALL County, Nebraska
HAPPOLD WETLAND RESTORATION
 657 WETLAND RESTORATION
 PLAN VIEW
 E2 S16-T9N-R9W

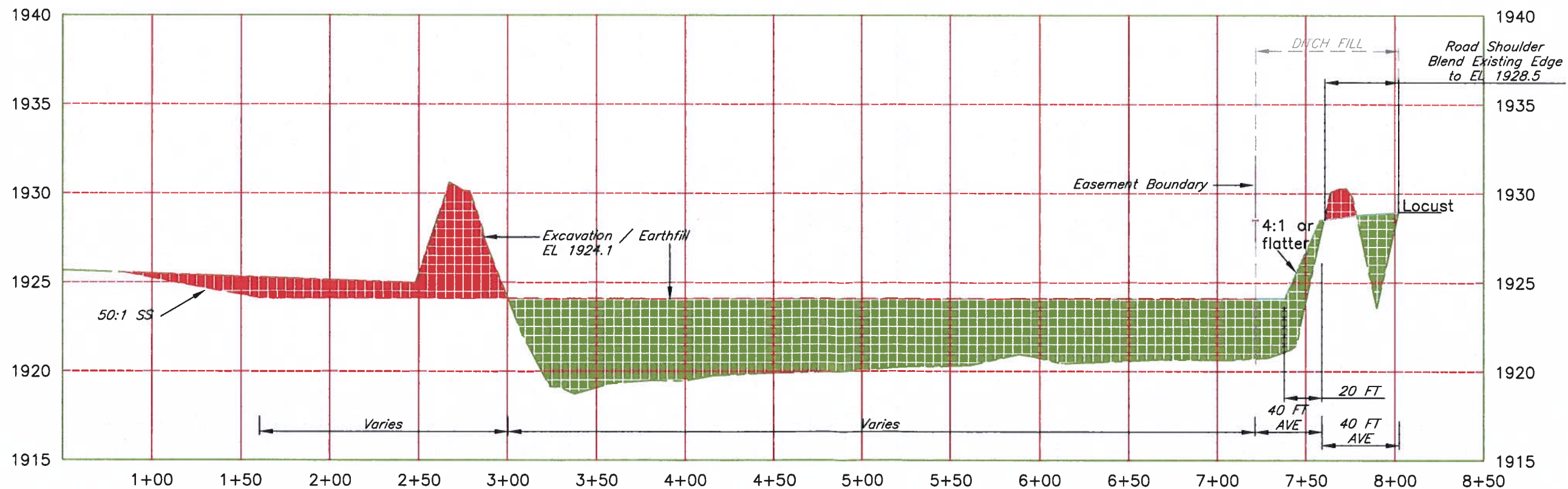
United States Department of Agriculture
USDA
 Natural Resources Conservation Service

File No. Happold_2021-08-02.dwg
 Drawing No. -
 8/10/21 4:10 PM
 Sheet 4 of 6



N-S PROFILE

PROFILE OF EARTHWORK
DRAWN NORTH TO SOUTH



W-E PROFILE

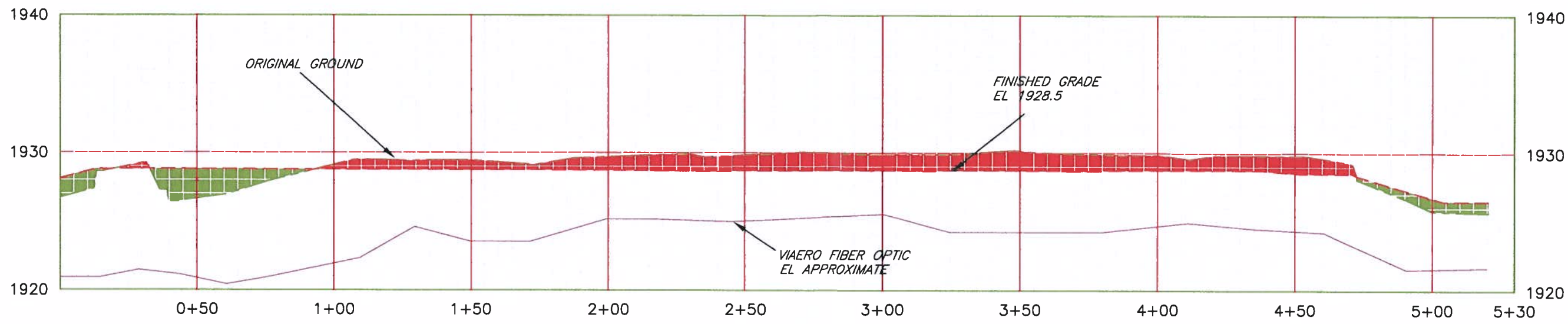
PROFILE OF EARTHWORK. DITCH FILL SECTION
SPECIFIC TO AREA DESIGNATED AS "UTILITY
PROFILE" PLAN VIEW AND SHEET 6 OF 6.

| | |
|----------|--------------------|
| Date | 8/3/2021 |
| Designed | NGARRETT |
| Drawn | NGARRETT |
| Checked | TSMooney |
| Approved | Ngarrett 8/10/2021 |

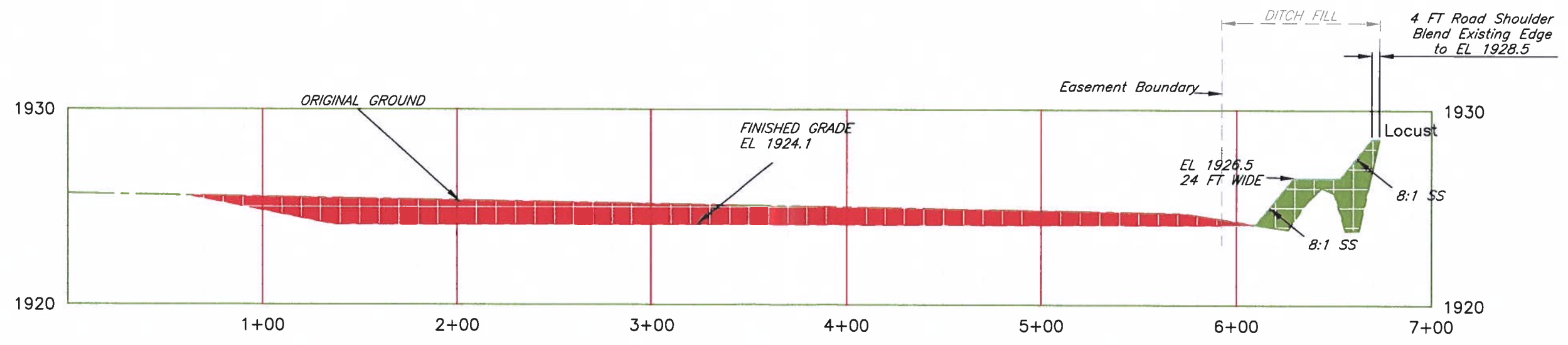
HAPPOLD
657 WETLAND RESTORATION
PROFILES AND CROSS-SECTIONS OF PIT FILL
HALL County, Nebraska
E2 S16-T9N-R9W



| | |
|-------------|------------------------|
| File No. | Happold_2021-08-02.dwg |
| Drawing No. | - |
| Date | 8/10/21 3:37 PM |
| Sheet | 5 of 6 |



Utility PROFILE



Exc Area 1 PROFILE

| | | | |
|----------|-----------|------|-----------|
| Designed | NGARRETT | Date | 8/3/2021 |
| Drawn | NGARRETT | | |
| Checked | TSMooney | | |
| Approved | Nggarrett | | 8/10/2021 |

HAPPOLD
657 WETLAND RESTORATION
PROFILES AND CROSS-SECTIONS

E2 S16-T9N-R9W

HALL County, Nebraska



| | |
|-------------|------------------------|
| File No. | Happold_2021-08-02.dwg |
| Drawing No. | - |
| Date | 8/10/21 3:37 PM |
| Sheet | 6 of 6 |

COMPATIBLE USE AUTHORIZATION

1. To be completed by NRCS; check appropriate box:



This transaction is for CCC



This transaction is for NRCS EWP

2. County: Hall

3. Contract NO.: _____

4. Agreement NO.: 5465261901RMX

5. Expiration Date: 12/31/2033

A. Person Responsible for Agreement Activities (Name and Address):

RYAN HAPPOLD

A 1. Person Responsible for Agreement

207 E PINE ST

DONIPHAN, NE 68832-9650

(Telephone Number): 308-390-7184

B. Purpose:

Grazing - Exp. Date 12/31/2024

528 - Prescribed Grazing

00N - Prescribed Grazing - Manage the harvest of vegetation with grazing and/or browsing animals with the intent to achieve specific ecological, economic and management objectives.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 13.28

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 528 | 00N | Tract 1 Land Unit: 1 |

D. Beginning Condition of Site:

The uplands have native grasses planted within them such as switchgrass, big bluestem, little blue, Canada wildrye and Indian grass and forbs such as yarrow, yucca, sage, vervain, and sunflowers. There doesn't seem to be many forbs popping up yet, many grasses have come through with the seeding. There are also some cattails in the wetland, but not enough at this time to warrant a treatment plan, grazing them during the growing times would be effective.

E. Statement of Affect and Compatibility:

An adaptive prescribed grazing plan will be implemented to benefit long term wetland functions, enhance plant communities, decrease stagnant vegetation conditions suppress woody invaders and enhance hydrological functions within wetlands on the WRP easement. Grazing wetland will reduce the vegetative height to better facilitate low lying areas for migrating waterfowl and shore birds. Noxious weed control is required by state law.

Rotational grazing is beneficial to the habitat and wildlife by increasing the diversity of native grasses and forbs and creating a diversity of vegetative stands. Grazing the same time every year will decrease diversity over time due to selective grazing. Intense grazing at green up or fall will improve the habitat by targeting the undesirable species such as river bulrush, reed canary grass, and cattails, and open the wetland for migratory waterfowl. It also decreased the presence of undesirable cool season grasses (downy brome, Kentucky bluegrass, and smooth brome) and increase diversity of native grasses and forbs. A temporary single wire electric fence set at half power will have no impact on habitat. This will allow for site to be rotationally grazed. Fencing out the wetlands during peak times (cool seasons) and grazing them while they are still in the growing stages will benefit the habitat that is available in the area.

Livestock Watering Facility - The livestock watering facility promotes grazing on the site by providing a reliable source of water for cattle. Grazing will reduce the amount of undesirable plant species, while promoting desirable plants. Reducing undesirable species will promote quality wetland habitat and improve wetland functions and values. Fence - A perimeter fence will allow the site to be grazed.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

Prescribed Grazing:

1. Landowner will follow the NRCS grazing plan.
 - a. This site will be grazed by 20 head of cattle between the two adjoining easements see the list below for the schedule of pasture rotations, along with the attached map. Both pastures will be grazed during the year to eliminate reed canary grass and other undesirable grasses.
2. The landowner can pick any ONE of the following section of dates to graze the cattle in a year, ensuring that the same fields are not grazed more than sixty days until the next grazing year.

- April 1st – June 1st
- April 15th -June 15th
- May 1st – July 1st
- May 15th – July 15th
- August 1st – October 1st
- September 1st – November 1st

3. The WRP easement will be monitored by the landowner to ensure the site is not over grazed which would reduce the biodiversity that is planted on the easement. The minimum height that the key forage species (warm season grasses and forbs) should be grazed to is eight (8) inches. Livestock will be removed when the minimum grazing height has been reached, which may be before the end of the grazing window selected in item 2 above. The landowner will be required to re-seed and establish grasses at their own expense if grasses are over utilized.
4. During drought years, the stocking rate must be reduced by 25%. Drought is defined as one or more months at a D2 (Severe Drought) or higher drought rating by the United States Drought Monitor. At a D1 Nebraska experiences stunted growth within the pasture and crop fields. Building a forage bank will benefit the easement during these times.
5. Any deviations from the grazing plan will require the concurrence of the NRCS and will be documented in the grazing plan.
6. Annual grazing is not guaranteed. NRCS retains the right to alter annual grazing strategies to adjust to current ecological site condition and desired management results.
7. Grazing may not occur on the same acres as haying in the same year. Haying is NOT permitted under this CUA.
8. The easement will be monitored by the landowner and NRCS staff for adequate regrowth before the next grazing season.
9. This practice is scheduled to begin in 2024 after approval by the state office.

Fence: A perimeter fence will allow the site to be grazed.

Livestock Watering Facilities: There is a solar well that will allow the cattle water access at all times on the south easements.

COMPATIBLE USE AUTHORIZATION

B. Purpose:

Maintenance/Management Activities - Exp. Date 12/31/2033

315 - Herbaceous Weed Treatment

00N - Herbaceous Weed Treatment - Remove or treat herbaceous weeds including invasive, noxious and prohibited plants using chemical, biological or mechanical methods, either alone or in combination to meet management objectives.

Maintenance/Management Activities - Exp. Date 12/31/2033

314 - Brush Management

00N - Brush Management - Remove woody (nonherbaceous or succulent) vegetation including invasive and noxious species using mechanical, chemical and biological methods; either alone or in combination. Brush management will be applied in a manner to achieve the desired control of the target woody species and protection of desired species.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 13.28

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 315 | 00N | Tract 1 Land Unit: 1 |
| 314 | 00N | Tract 1 Land Unit: 1 |

D. Beginning Condition of Site:

The uplands have native grasses planted within them such as switchgrass, big bluestem, little blue, Canada wildrye and Indian grass and forbs such as yarrow, yucca, sage, vervain, and sunflowers. There doesn't seem to be many forbs popping up yet, many grasses have come through with the seeding. There are also some cattails in the wetland, but not enough at this time to warrant a treatment plan, grazing them during the growing times would be effective.

E. Statement of Affect and Compatibility:

Wetlands and uplands always offered essential wildlife habitat and natural vegetation that offers food and habitat for many types of wildlife. Without disturbances this habitat and food source can become overgrown, and then the habitat that the wildlife used as shelter begins to decline at a rapid rate. Without changes in frequency and timing of management, this makes wetlands and uplands prone to the same species. By utilizing chemical and mechanical control for undesirable species we can eliminate noxious weeds as well as remove woody species that don't belong on the landscape. By decreasing stagnant vegetation conditions, suppressing woody invaders, and enhancing hydrological functions within the wetlands all along while improving the upland vegetation the wildlife habitat and shelter will improve and increase the population within the area.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

Chemical and Mechanical Control of Undesirable Species (noxious weeds, trees, cattails, bulrush, invasive cool season grasses):

1. This CUA does not authorize the Landowner to treat weeds that are not noxious weeds (state defined) or not considered undesirable by NRCS. Noxious weeds are required by State law and the Warranty Easement Deed to be controlled by the landowner.
 - a. State listed noxious weeds are Bohemian, spotted, and diffuse knapweed, Japanese and giant knotweed, sericea lespedeza, purple loosestrife, non-native bio-type of phragmites (common reed), saltcedar, leafy spurge, Canada thistle, musk thistle, and plumeless thistle.
 - b. Species considered undesirable by NRCS because of their potential for becoming invasive and dominant are reed canary grass, cattail, river bulrush, brome species and trees other than American Plum.
 - c. The landowner is also responsible for checking with their county weed authority for county listed noxious weeds.
2. Many species deemed weedy in agricultural land, such as annual sunflowers, are beneficial to wildlife and are not authorized for chemical weed control in this CUA.
3. Spot spraying selective herbicides may be used to control noxious weeds. Spot spraying is authorized whenever an undesirable plant species is present. Spot spraying may occur any year of this CUA if the target species are still present.
4. Herbicide selection shall be based on the targeted species with consideration of protecting native grasses, forbs, sedges, and other desirable plants species. Timing of herbicide application will be conducted to allow for the successful control of targeted species while limiting impact to non-target species.
5. Herbicides will be applied according to the label. The landowner is responsible for following all label requirements on herbicides, including whether the chemical may be sprayed over water, wetland, pasture, etc.
6. Mechanical woody species removal will not be conducted May 1st - July 31st.
7. Trees of any size may be removed by mechanical means.
8. Stumps of deciduous trees must be treated with chemicals such as Remedy Ultra®, Garlon 3a®, Garlon 4 Ultra®, Vastlan®, Pathfinder II®, or glyphosate according to the product label within 15 minutes of being cut.
9. Tree removal and disposal will be according to NRCS standards and specifications.
10. This practice is scheduled to begin in 2024 after approval by the state office.

COMPATIBLE USE AUTHORIZATION

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his or her own risk. This authorization does not vest any right of any kind in the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and on referenced documents.

G. Recommended (NRCS Signature): Kaycee Clair Zuschlag G 1. Date: 3/22/2024

G 2. Title: Area Easement Specialist

H. Landowner or Representative (Signature): *Ryan Haggold* H 1. Date 3-27-24

H 2. Title: *Vice President*

I. Approved (NRCS Signature): -- I 1. Date: --

I 2. Title: _____

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

COMPATIBLE USE AUTHORIZATION

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his or her own risk. This authorization does not vest any right of any kind in the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and on referenced documents.

G. Recommended (NRCS Signature): Kaycee Clair Zuschlag G 1. Date: 3/22/2024

G 2. Title: Area Easement Specialist

H. Landowner or Representative (Signature): _____ H 1. Date _____

H 2. Title: _____

I. Approved (NRCS Signature): Melissa Ann Baier I 1. Date: 3/29/2024

I 2. Title: ASTC-Water Resources and Easements

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

COMPATIBLE USE AUTHORIZATION

OMB DISCLOSURE STATEMENT

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 40 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

NONDISCRIMINATION STATEMENT

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its program and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of Discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW., Washington, DC 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

PRIVACY ACT STATEMENT

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 522a). Furnishing this information is voluntary; however, failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other State or Federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

COMPATIBLE USE AUTHORIZATION

OMB BURDEN STATEMENT

Federal Agencies may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Public reporting burden for this collection of information is estimated to average 40 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM (OMB NO. 0578-0013), Stop 7630, Washington, D.C. 20250-7630.

Easement Plan Map

Date: 3/26/2024

Client(s): RYAN HAPPOLD
Location: 16-9N-9W
Hall County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
GRAND ISLAND SERVICE CENTER
GRAND ISLAND SOIL & WATER CONSERVATION DISTRICT



Prepared with assistance from USDA-Natural Resources Conservation Service



Brush Management Easement Plan Map

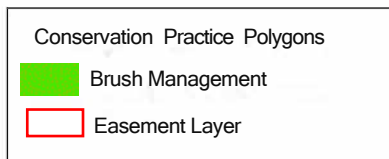
Date: 3/26/2024

Client(s): RYAN HAPPOLD
Location: 16-9N-9W
Hall County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
GRAND ISLAND SERVICE CENTER
GRAND ISLAND SOIL & WATER CONSERVATION DISTRICT



Prepared with assistance from USDA-Natural Resources Conservation Service



Herbaceous Weed Treatment Easement Plan Map

Date: 3/26/2024

Client(s): RYAN HAPPOLD
Location: 16-9N-9W
Hall County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
GRAND ISLAND SERVICE CENTER
GRAND ISLAND SOIL & WATER CONSERVATION DISTRICT





Source: Esri, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo and the GIS User Community, Copyright © 2016 Esri, DeLorme, NAVTEQ, TomTom

Prepared with assistance from USDA-Natural Resources Conservation Service



Conservation Practice Polygons

-  Herbaceous Weed Treatment
-  Easement Layer



Prescribed Grazing Easement Plan Map

Date: 3/26/2024

Client(s): RYAN HAPPOLD
Location: 16-9N-9W
Hall County, Nebraska
Land Units: Tract 1, Fields 1



Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
GRAND ISLAND SERVICE CENTER
GRAND ISLAND SOIL & WATER CONSERVATION DISTRICT



Source: Esri, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo and the GIS User Community, Copyright © 2016 Esri, DeLorme, NAVTEQ, TomTom

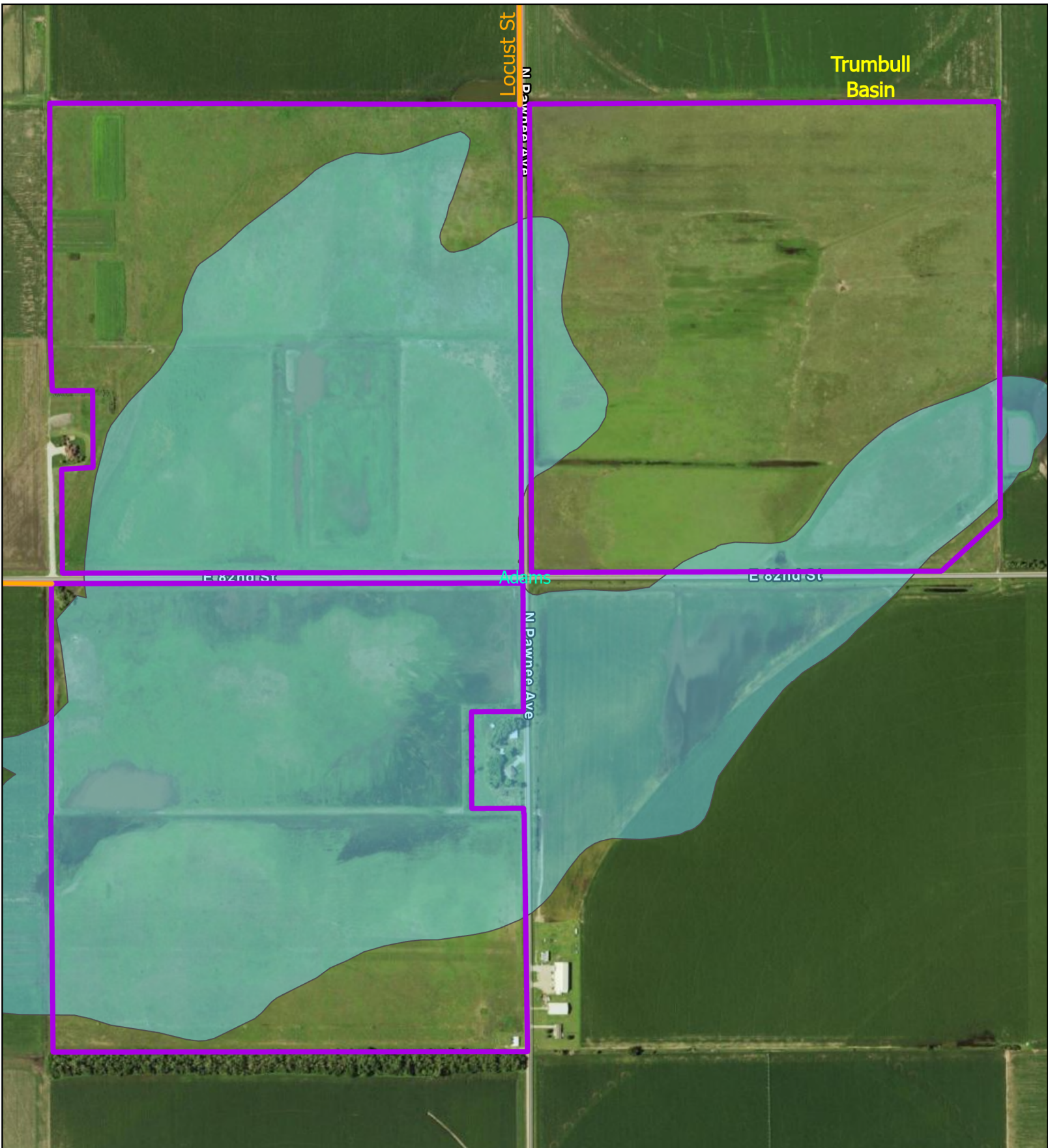
Prepared with assistance from USDA-Natural Resources Conservation Service

0 376
Feet

| Conservation Practice Polygons | |
|---|--------------------|
|  | Prescribed Grazing |
|  | Easement Layer |

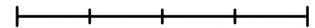


Trumbull Basin



-  Site Boundary
-  Wetland Area
-  Road

0 0.1 0.2 Miles



NEBRASKA WETLAND RESERVE PROGRAM

PRELIMINARY RESTORATION PLAN**

Landowner: Leo Pavelka
 Address: Hastings NE
 WRP Application Type: Perpetual Easement

County: Adams
 Tract #: 127
 Legal: T8 R9 sec11 SW 1/4
 Site Ac: 160 (107000)
 Date: 1/22/02

LANDOWNER OBJECTIVES:

Perpetually protect this property for the benefit of wildlife. He is done farming.

TEAM OBJECTIVES:

| FIELD # | PRACTICE | QUANTITY | EST. COST |
|---------|---|------------|--------------|
| | Dike removal; remove dike on Northern side of ring dike | 15,000 cy. | \$ 15,000.00 |
| | Pit/Ditch Filling; Fill material with sand from the area south of this long E-W pit | 5,100 cy | 5,100.00 |
| | "moat" Filling; reconstruct and fill the "moat" area inside the ring dike | 5,000 cy | 5,000.00 |
| | remove old pump column from dike area. | LUMP SUM | 500.00 |
| | Water control structures; 18" dia. CMP 40' lengths w/ flap gate in each end. | 3 ea. | 2,250.00 |
| | Seeded 50 row crop field - 1/2 acre - to row crop row crop field | 155 ea. | 2,325.00 |
| | Wetland seeding; 50 species mix from Prairie Plains Resource Institute | 155 ea. | 31,275.00 |
| | Built up the road - some water on road sides - some minor filling a ditch would have to check on water flow | | |

TOTAL ESTIMATED RESTORATION COST \$ 61,175.00

NOTES:

Fill from the long pit went to the field in the SW corner (the field was ... water to the east). Fill for the ditches came from inside the dike ring. Some row crops were seeded in the north end - but it was very minor (less than 4 inches)

INITIAL & DATE LANDOWNER: _____

NRCS: KJZ

FWS/NG&P: M / 20

** Attach photo with easement boundaries and practice locations identified.

NOTE: Review obligations and explanation of compatible uses on reverse side of this form with Landowner.

U.S. Department of Agriculture
Soil Conservation Service

NE-ECN-3
2-93

*** ESTIMATED COST
OF APPLYING CONSERVATION PRACTICES**

| | |
|-------------------------------|------------------------|
| LANDOWNER <u>Pavelka, Leo</u> | LEGAL <u>SW 41-8-9</u> |
| FIELD # (if available) _____ | BY _____ DATE _____ |

| PRACTICE | *UNIT COST | QUANTITY | *TOTAL COST |
|--------------------------------------|------------|----------|-------------|
| Excavation of Sediment | 1.01 | 30000 | 30300.00 |
| Excavation of Dikes Around Pt/Prop. | 1.01 | 18000 | 18,180 |
| Excavation culvert / Install Culvert | Lump Sum | 1 | 2500.00 |
| Culvert 24" | 25 | 80 LF | 2000.00 |
| Replace gravel | | Lump Sum | 8000 |
| | | | |
| | | | |

* In Kind
NEWSU

*** GRAND TOTAL ESTIMATE---->**

58900

* These "Estimated" or Average Costs are derived from billings submitted by contractors, for work performed from the previous year. These billings generally show a wide range of Unit Costs because of:

1. The size of the job
2. The difficulty of the job
3. The efficiency of the contractor, and
4. The quality of the work performed

REMEMBER THAT THE MOST ACCURATE WAY OF DETERMINING THE ACTUAL COST OF THE WORK IS TO GET A QUOTE FROM THE CONTRACTOR OF YOUR CHOICE.

Conservation Plan

Leo Pavelka
421 Lakeside Dr
Hastings, NE 68902-0082

Wildlife

Tract: 127

PRESCRIBED BURNING

Prescribed burning will be done to increase health and vigor of desirable vegetation and to control undesirable vegetation when determined needed by NRCS. All burning will be in accordance with state and local laws and ordinances. Refer to the prescribed burning plan for specifications. All necessary permits will be obtained before burning.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|---------------|------------------|-------|------|----------------|------|
| W1 | 155.8 ac. | 4 | 2010 | | |
| Total: | 155.8 ac. | | | | |

WELL DECOMMISSIONING

A well (as shown on the plan map) will be abandoned, plugged, and filled by a licensed contractor according to State Department of Health rules and regulations found in Title 178, Chapter 12. These requirements will be obtained from NRCS or the NRD prior to beginning the plugging and filling operation.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|---------------|----------------|-------|------|----------------|------|
| W1 | 1.0 no. | 11 | 2004 | | |
| Total: | 1.0 no. | | | | |

USE EXCLUSION

Livestock will be excluded from all land in WRP according to contract requirements.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|---------------|------------------|-------|------|----------------|------|
| W1 | 155.8 ac. | 4 | 2004 | | |
| Total: | 155.8 ac. | | | | |

FORAGE HARVEST MANAGEMENT

Forage can not be harvested on Wetland Reserve Program lands, without a signed compatible use authorization from NRCS.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|---------------|------------------|-------|------|----------------|------|
| W1 | 155.8 ac. | 4 | 2004 | | |
| Total: | 155.8 ac. | | | | |

UPLAND WILDLIFE HABITAT MANAGEMENT

Wildlife habitat will be maintained to benefit desired types of wildlife according to WRP cover management requirements. Refer to WRP restoration and management plan.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| W1 | 82.0 ac. | 10 | 2004 | | |
| Total: | 82.0 ac. | | | | |

WETLAND RESTORATION

Wetlands will be restored. Wetland Restoration activities will be completed by NRCS and/or its agents. Specifications will be obtained from NRCS prior to any restoration activities.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| W1 | 73.8 ac. | 10 | 2004 | | |
| Total: | 73.8 ac. | | | | |

CERTIFICATION OF PARTICIPANTS

| | |
|-------------|------|
| | |
| Leo Pavelka | Date |

CERTIFICATION OF:

| | |
|--------------------------|------|
| Resource Conservationist | |
| Ken Franzen | Date |

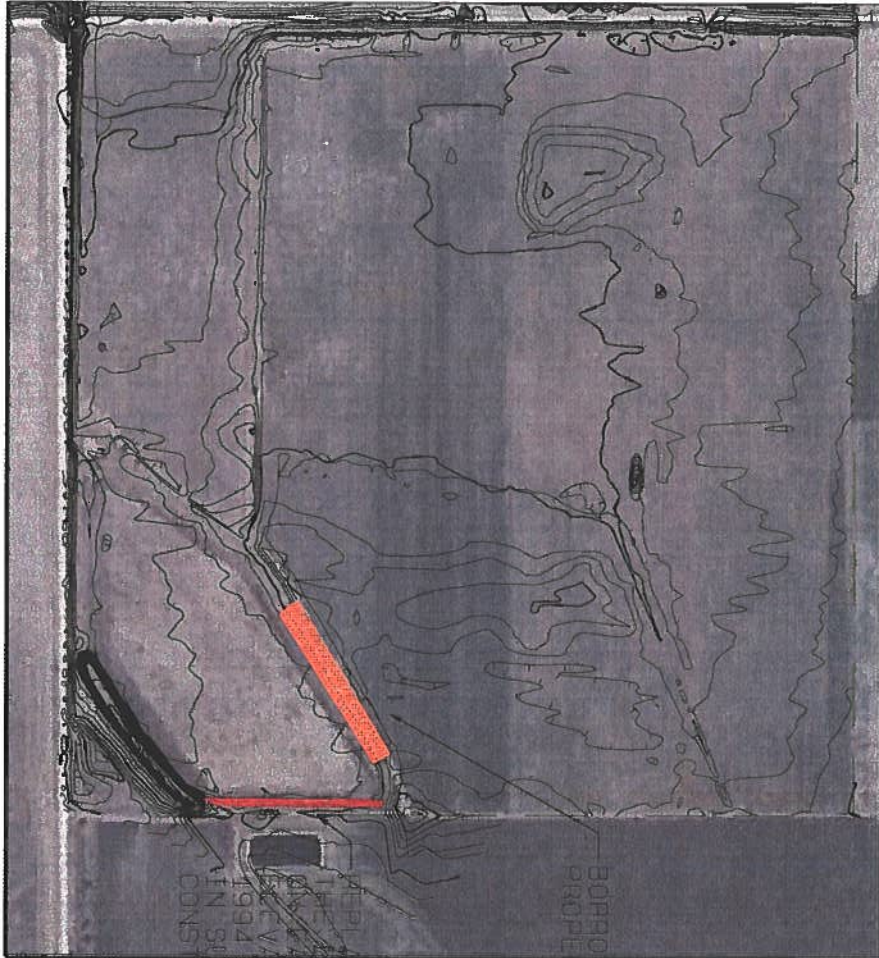
| | |
|-----------------------|------|
| CONSERVATION DISTRICT | |
| Upper Big Blue NRD | Date |

NONDISCRIMINATION STATEMENT

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

LEO PAVELKA - NEGP PROPERTY



BOTTOM LOCATION FOR
PROPERTY LINE FILL

DEPT. CE BY FILLING, TO EL. 1893.0
HURT REMOVED BY CONTRACTOR
ST BOUNDARY CONTROL
ELEVATION BACK TO ORIGINAL
ELEVATION. NRCS ERROR
IN SURVEYING DURING
CONSTRUCTION.

SHEET DESCRIPTION
HAROLD HURST
ADAMS County, Nebraska

| | | Date |
|----------|-------------|------|
| Designed | J. E. MYERS | 5/07 |
| Drawn | J. E. MYERS | 5/07 |
| Checked | J. ROBINSON | 5/07 |
| Approved | J. E. MYERS | 5/07 |



File No.
Drawing No.
Sheet 5 of 4 Pages

CONSTRUCTION DATA

| CONSTRUCTION DATA | | DATE |
|------------------------|--|------|
| Layout By: | | |
| Construction Check By: | | |
| Contractor: | | |
| Constructed Cost: | | |
| Cost Share Agency: | | |

DON & LISA COX & JEFF & LORI ANDERSON WRP

SW1/4 SECTION 11 T8N R9W

Adams County, Nebraska



NRCS

SPONSORED BY: USDA NRCS WETLAND RESERVE PROGRAM
 DESIGNED BY: NATURAL RESOURCES CONSERVATION SERVICE
 RAINWATER BASIN WETLAND ASSISTANCE TEAM 5

TABLE OF QUANTITIES

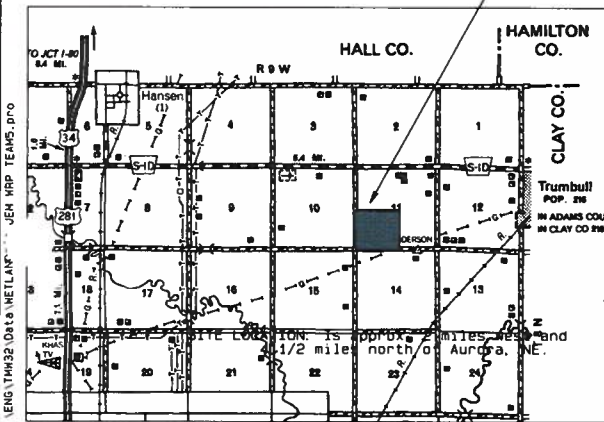
| ITEM | UNIT | QUANTITIES | AS-BUILT |
|-----------------------------|-------|------------|----------|
| Fence | LF-P* | 250 | |
| Excavation* Berm Removal | CY-P* | 4571 | |
| TOTAL | | 4571 | |

LANDOWNERS AGREEMENT

I have reviewed and I am in agreement with the plans, specifications, and drawings provided to me by NRCS

Name _____ Date _____

PROJECT LOCATION



MG = 1,000 Gal. of Water
 * CY-P* items are cubic yards planned & LF-P* are linear feet planned.
 Payments shall be based off of these planned quantities.

SHEET INDEX

| SHEET NO. | SHEET TITLE |
|-----------|--------------------------|
| 1 | COVER SHEET |
| 2 | DATA AND X-SECTION SHEET |
| 3 | AERIAL PHOTO VIEW |
| 4 | TYPICAL CROSS SECTION |

Design By: J. E. MYERS 6/10
 Checked By: NATHAN GARRETT 6/10

SPECIFICATION AND DRAWINGS
 APPROVED FOR CONSTRUCTION

Jon E. Myers

Signature:
 APPROVED BY: J. E. MYERS

Digitally signed by Jon E. Myers
 DN: cn=Jon E. Myers, o=NRCS, ou=USDA,
 email=jon.myers@ne.usda.gov, c=US
 Date: 2010.09.09 14:02:25 -05'00'

THIS PROJECT IS JOB CLASS IV

Section 11 T8N R9W

| | |
|--------------|---------|
| SHEET NO. | 1 |
| TOTAL SHEETS | 4 Pages |

CONSTRUCTION NOTES

- 1) The contractor will inspect the construction area for the presence of utility facilities both surface and subsurface, and will notify the Nebraska One Call System (<http://www.ne-diggers.com>) before construction activities begin. The contractor will use extra safety precautions when working near or around pipelines, power lines, power poles, underground cables, or other utility installations. DIGGERS HOTLINE: 1-800-331-5666
- 2) The CONTRACTOR shall remove all signs of temporary construction facilities, such as work areas, stockpiles, and other vestiges of construction prior to final acceptance of work. The disturbed areas shall be graded and filled as specified. Any off-site damage attributable to the CONTRACTOR'S conduct, shall be repaired at no additional cost to the owner.
- 3) Clearing areas, clearing and grubbing areas, and construction work limits are generally bounded by the toes of the embankment, and excavation/borrow areas. Exact location of the work limits will be staked by the NRCS before construction begins.
- 4) Material which is not suitable for earthfill and which can not be spread in adjacent fields (stumps, trees, fence materials, concrete blocks, rubble, etc.) will be removed, burned and buried. Buried waste material will be at least 3.0 feet below the natural graded ground surface and the finished surface of the burial area will blend in with the surrounding topography.
- 5) When excavated material is unsuitable for immediate placement as earthfill, or is stockpiled for later use as earthfill, certification for payment quantities shall include both items. Where excavated material is placed immediately as earthfill, certification for payment quantities shall include only one item.
- 6) Disposal areas shall be stockpiled with a maximum pile height of 10 feet. The side slopes shall be no steeper than 2:1 and end slopes no steeper than 6:1 to allow for safe travel with equipment.
- 7) Excavated material not suitable for earthfill will be spread and shaped to blend into the landscape or, stockpiled in disposal areas, whichever is specified on the drawings. Exact limits of the burial/disposal and excavation waste area will be staked by the NRCS at the time of construction.
- 8) The contractor shall be responsible for furnishing, placing, and maintaining signs, barricades, and danger signals deemed necessary by the Nebraska Dept. of Roads and/or the County Road Department.
- 9) Fences within the construction work limits will be removed by contractor before construction begins.
- 10) Borrow (sediment removal) area limits will be staked by the NRCS inspector at the time of construction.
- 11) Excavation tolerances on all sediment removal and berm removal are to grade or -0.2 feet of elevation shown on drawings.

HYDROLOGIC DATA

| | |
|--------------------------------|--------|
| DRAINAGE AREA, Acres | 2294 |
| WATERSHED SLOPE, % | 1.9 |
| WATERSHED LENGTH, Feet | 17.527 |
| RCN | 72 |
| TIME OF CONCENTRATION, Hr. | 4.80 |
| 10yr-24hr Storm Runoff (ac-ft) | 261.7 |
| 25yr-24hr Storm Runoff (ac-ft) | 341.7 |

EARTHWORK QUANTITIES COMPUTATION METHOD

MOPOND, Ver. 1.0
 TERRAMODEL, Ver. 10.60
 OHIO
 MANUALLY PLOTTED, DEA
 OTHER: _____

CONSTRUCTION SPECIFICATIONS

| Nebraska Construction and Materials Specifications | |
|---|---|
| NE- Series, Check the ones that apply | |
| <input type="checkbox"/> | 1 Site Preparation & Structure Removal |
| <input type="checkbox"/> | 6 Seeding and Mulching for Protective Cover |
| <input type="checkbox"/> | 8 Site Mobilization and Demobilization |
| <input type="checkbox"/> | 10 Water Applied |
| <input type="checkbox"/> | 11 Removal of Water |
| <input checked="" type="checkbox"/> | 21 Excavation |
| <input type="checkbox"/> | 23 Earthfill |
| <input type="checkbox"/> | 24 Drainfill |
| <input type="checkbox"/> | 32 Concrete for Minor Structures |
| <input type="checkbox"/> | 51 Corrugated Metal Pipe Structures |
| <input type="checkbox"/> | 81 Metal Fabrication and Installation |
| <input type="checkbox"/> | 83 Timber Fabrication and Installation |
| <input checked="" type="checkbox"/> | 92 Fencing |
| <input type="checkbox"/> | 208 Water Control Valves |
| <input type="checkbox"/> | 214 Cathodic Protection |
| <input type="checkbox"/> | 220 Plastic Pipe Conduits |
| <input type="checkbox"/> | |
| <input type="checkbox"/> | |

PRACTICE STANDARDS

| | |
|-------------------------------------|---------------------------------|
| <input type="checkbox"/> | 356 Dike |
| <input type="checkbox"/> | 362 Diversion |
| <input type="checkbox"/> | 378 Pond |
| <input type="checkbox"/> | 587 Structure for Water Control |
| <input checked="" type="checkbox"/> | 657 Wetland Restoration |
| <input type="checkbox"/> | 658 Wetland Creation |
| <input type="checkbox"/> | 659 Wetland Enhancement |
| <input type="checkbox"/> | Other: _____ |

Date 6/10
 Designed J. E. MYERS
 Drawn J. E. MYERS
 Checked MATHIAS GARRETT
 Approved J. E. MYERS

DATA SHEET

DON & LISA COX & JEFF & LORI ANDERSON


Clay County, Nebraska



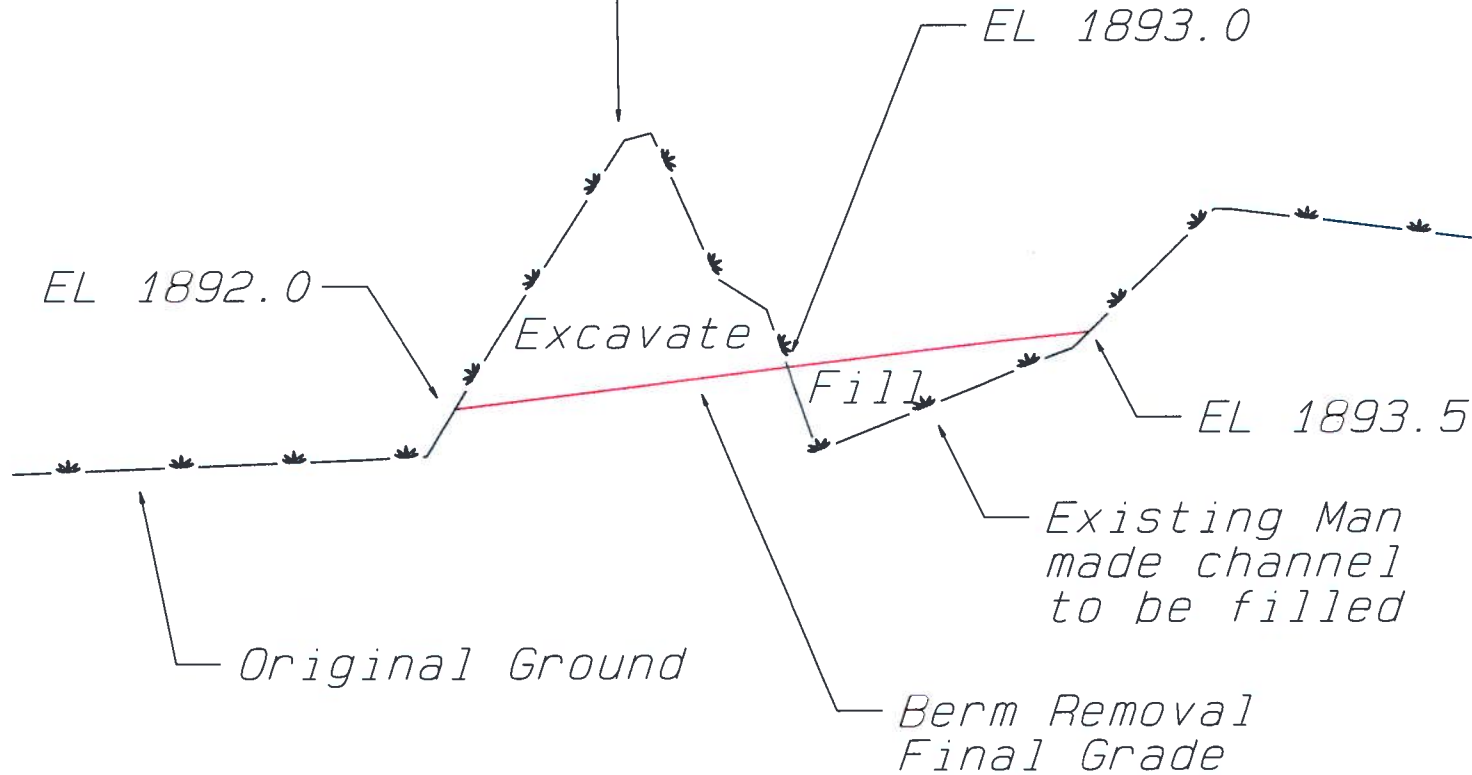
NS-ENG-01
 Rev. 9-04
 GI Engineering
 Drawing No.



NOT TO SCALE

| | | | |
|---|---|--|--|
|  Natural Resources Conservation Service | AERIAL PHOTO VIEW DON & LISA COX & JEFF & LORI ANDERSON WRP Adams County, Nebraska | | Date Designed <u> </u> J.E. MYERS <u>5/10</u> Drawn <u> </u> J.E. MYERS <u>5/10</u> Checked <u> </u> NATHAN GARRETT <u>5/10</u> Approved <u> </u> J.E. MYERS <u>5/10</u> |
| | File No. | | |
| | Drawing No. | | |
| | Sheet 3 of 4 Pages | | |

Old Berm to be Removed



TYPICAL X-SECTION OF BERM REMOVAL
SECTION A - A

| Date | Designed | Drawn | Checked | Approved |
|------|-------------|-------------|----------------|-------------|
| 6/10 | J. E. MYERS | J. E. MYERS | NATHAN GARRETT | J. E. MYERS |

BERM REMOVAL DETAILS
DON & LISA COX & JEFF & LORI ANDERSON
Adams County, Nebraska



NEBRASKA

CONSTRUCTION AND MATERIAL SPECIFICATIONS

for

DON & LISA COX & JEFF & LORI ANDERSON WETLAND RESTORATION

The work to be performed under these specifications consist of: Excavating berm removal and filling man made channel and replacing fence and minor structure removal.

The proposed work is located in the SW1/4 Section 11 T8N R9W Adams County Nebraska. from Trumbull NE 3 miles west and 1 mile south.

These specifications are a part of the construction plans. The work shall be performed in accordance with the drawings and specifications unless otherwise approved, in writing, by the NRCS engineer/inspector. For items of work requiring NRCS inspection and/or approval, it is the responsibility of the contractor or builder to keep the local NRCS office informed on the status of the work so that timely inspection may be provided. Work performed without NRCS being provided the opportunity for inspection may not be accepted.

All work on the project will conform to the title drawings and the following applicable specifications are marked in Column No. 1.

REMARKS:

| COL. #1 | SPEC. NO. | SPECIFICATION TITLE |
|---------|-----------|--------------------------------------|
| | NE-1 | Site Preparation & Structure Removal |
| | NE-11 | Removal of Water |
| X | NE-21 | Excavation |
| | NE-23 | Earth Fill |
| | NE-51 | Corrugated Metal Pipe Conduits |
| | NE-81 | Metal Fabrication and Installation |
| | NE-8 | Mobilization and De-mobilization |
| X | NE-92 | Fenceing |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

CONSTRUCTION SPECIFICATION

NE-21. EXCAVATION

1. SCOPE

The work shall consist of the excavation required by the drawings and specifications and disposal of the excavated materials.

2. USE OF EXCAVATED MATERIALS

Suitable materials from the specified excavations shall be used in the construction of required permanent earth fill. The suitability of materials for specific purposes shall be determined by the NRCS Inspector.

3. DISPOSAL OF WASTE MATERIAL

All surplus or waste material shall be disposed of in areas shown on the drawings or as approved by the NRCS Inspector. The waste material shall be smoothed and sloped to provide drainage.

4. STRUCTURE AND TRENCH EXCAVATION

Structure or trench excavations with surfaces too steep to be stable shall be supported to prevent soil movement. The Contractor shall furnish, place, and subsequently remove the supports.

5. BORROW EXCAVATION

When the quantities of suitable materials obtained from specified excavations are insufficient to construct the specified fills, additional materials shall be obtained from the designated borrow areas as shown on the drawings or as approved by the NRCS Inspector.

CONSTRUCTION SPECIFICATION

NE-92. FENCING

1. SCOPE

The work shall consist of furnishing and installing farm field fences, including gates and fittings.

2. MATERIALS

Materials for farm field fences shall conform to the requirements of FOTG Standard 382. All wooden posts shall be of the same species.

3. SETTING POSTS

Wood posts shall be set in holes and backfilled with earth, and steel posts shall be driven.

Post holes shall be at least 6 inches larger than the diameter or side dimension of the posts.

Earth backfill around posts shall be thoroughly tamped in layers not thicker than 4 inches and shall completely fill the post hole up to the ground surface. Backfill shall be crowned up around posts at the ground surface.

4. ATTACHING FENCING TO POSTS

A. The fencing shall be fastened to each end post, corner post, and pull post by wrapping each horizontal strand around the post and tying it back on itself with not less than three tightly wound wraps.

B. Fencing shall be fastened to wooden line posts by staples with enough slack so that the wire does not bind to the post. Each strand of barbed wire and alternate strands of woven wire fence shall be stapled. As an alternate, 12 ga galvanized or 12 ga soft black wire may be used instead of staples.

5. CROSSINGS AT NARROW DRAWS

Where fencing is installed parallel to the ground surface, the line posts subject to upward pull shall be anchored by means of extra embedment or by special anchors as detailed on the drawings.

SPECIFICATIONS WITH APPROPRIATE DRAWINGS ATTACHED.

STANDARD FENCE
(Check items that apply)

1. Posts:
 - a. Line posts:
 - Wood - 3-inch minimum top diameter, minimum length 6 ½ feet, 2 ½ feet in the ground
 - Steel (T-shaped) with attached anchor plate, painted, minimum length 6 feet, 1½ feet in ground, minimum weight of 1.33 pounds per foot
 - Fiberglass – 1 ¼ inch minimum top diameter minimum length 6 feet, 2 feet in the ground
 - b. Corner and gate posts:
 - Wood posts: Minimum top diameter is 5 inches whenever there is 15 degrees or more change in direction of fence. Minimum length 8 feet. Minimum of 3½ feet in ground.
 - Steel posts: 7 feet minimum, 3 feet minimum (set in concrete), Round 2-3/8 inch Outside Diameter (O.D.) or Angle Iron 2-1/2 x 2-1/2 x ¼ inch
 - c. Horizontal bracing posts:
 - Wood: Minimum top diameter 3 inches; minimum length 6 ½ feet
 - Steel: Minimum top diameter is 2 inches; minimum length 6 ½ feet
2. Fence may be either:
 - With posts spaced averaging 1 rod apart (16 ½ feet) with at least 3 barbed wires
 - With posts spaced averaging 20 feet apart and with at least 4 barbed wires.
 - Woven wire, 26- to 42-inches high, may replace one barbed wire. Forty-two inches or taller woven wire may replace two barbed wires.
3. Barbed wire must be:
 - Double strands of at least 12 ½ gauge wire with two point barbs of at least 14 gauge on about 5-inch or less centers.
 - 15 1/2 gauge high tensile wire with two point barbs of at least 14 gauge on about 5-inch or less centers (min.).
 - Type Z, Class 1 (min. or equiv.) zinc-coating as per ASTM A-121.
4. Woven wire must be:
 - The top and bottom wires in the woven wire shall be at least 12 ½ gauge or heavier
 - The line and stay wires shall be at least 14 ½ gauge or heavier
 - Type Z, Class 1 (min. or equiv.) zinc-coating as per ASTM A-116 and the label shall indicate the woven wire meets ASTM A-116 requirements
 - Double strands of at least 12 ½ gauge wire with two point barbs of at least 14 gauge on 5-inch or less centers.
5. Smooth wire must be:
 - Double strand of wire at least 12 ½ gauge
6. Line wire is attached 1/:
 - Staples – at least 9 gauge
 - Wire fasteners – at least 12 gauge
 - Other: _____

1/ Copper Naphthenate treated posts will corrode steel staples, alternative fasteners will be needed

Document any changes or substitutions made to the above planned fence components in the space below (all substitutions shall be approved by NRCS prior to installation):

I certify that all fencing components have been installed according to these plans and specifications:

(Name and Title)

(Representing)

(Date)

FENCE CONSTRUCTION JOBSHEET

Date 9/9/10

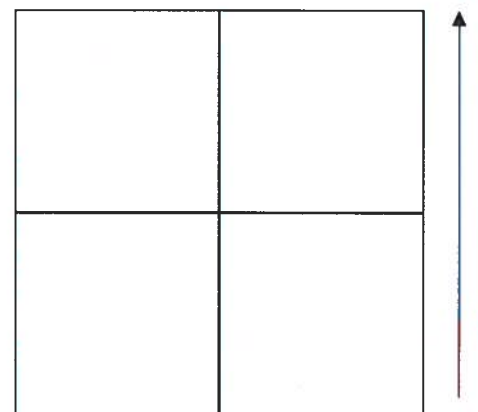
Name DON & LISA COX & JEFF & LORI ANDERSON Address _____

NRD UPPER BIG BLUE Field Office HASTINGS

Program: WRP Contract/Application #: _____

| Field No.(s) | Type of Fence (Stand., Elec., Suspen) | Contract or Agreement Item Number | Planned | | Installed | |
|--------------|---------------------------------------|-----------------------------------|---------|------------|-----------|------------|
| | | | Rods | Linear Ft. | Rods | Linear Ft. |
| | STANDARD | | | 250 | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Totals | | | | | | |

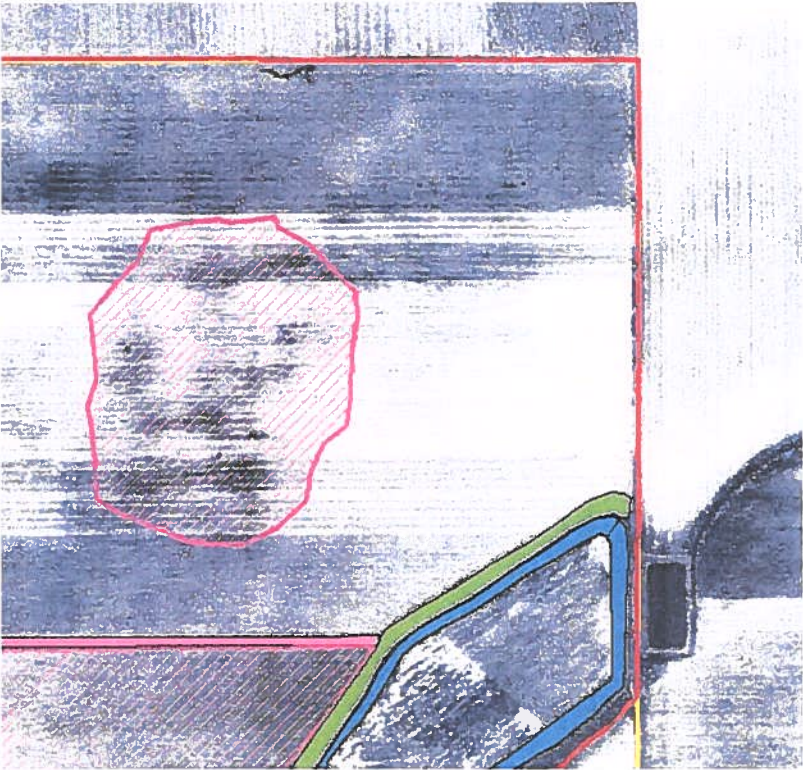
Remarks (Fencing Materials to be used or other guidance):



Scale: 2" = mile

Legal Description: Sec. 11 Twp. 8N Range 9W

**Leo Pavelka WRP
Concept Plan - February 2002
T8N R9W Section 11 SW1/4
Adams County, Nebraska**



- Water Control Structures - flap gate
- Old Pump Clean-up Site
- Dike Removal
- Moat Filling
- Excavation Area
- Ditch Fill
- WRP Boundary
- Property Boundary

The Concept Plan includes reseeding the WRP area to a 50 species mix.

Location of three "one-way" water control structures has not been determined.

N

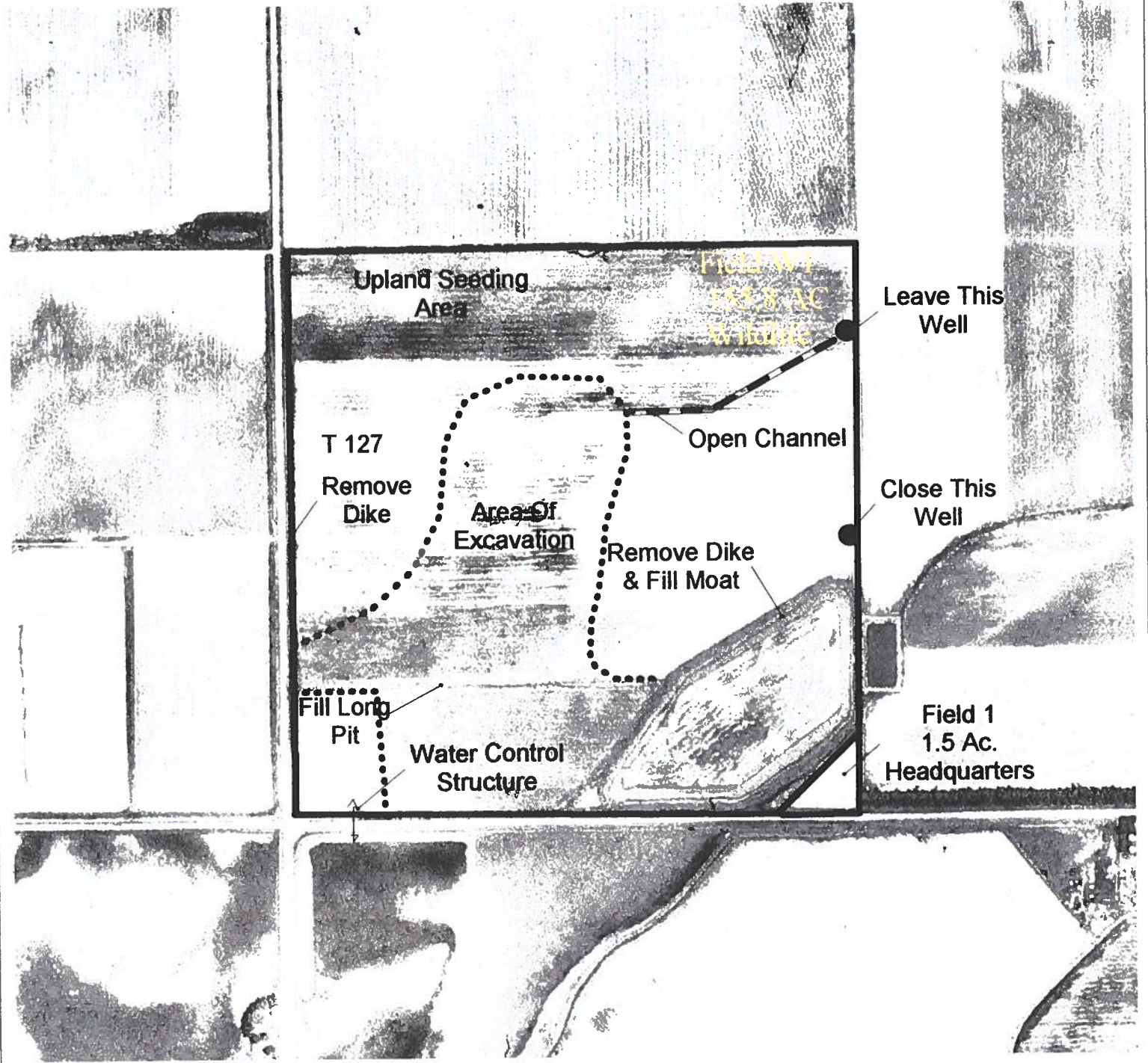
Conservation Plan Map

Pavelka Leo

Upper Big Blue NRD
160 Acres
Date: 05/05/2004

FN 1400
T 127

Hastings
USDA_NRCS
Ken Franzen
SW 1/4 11-8-9

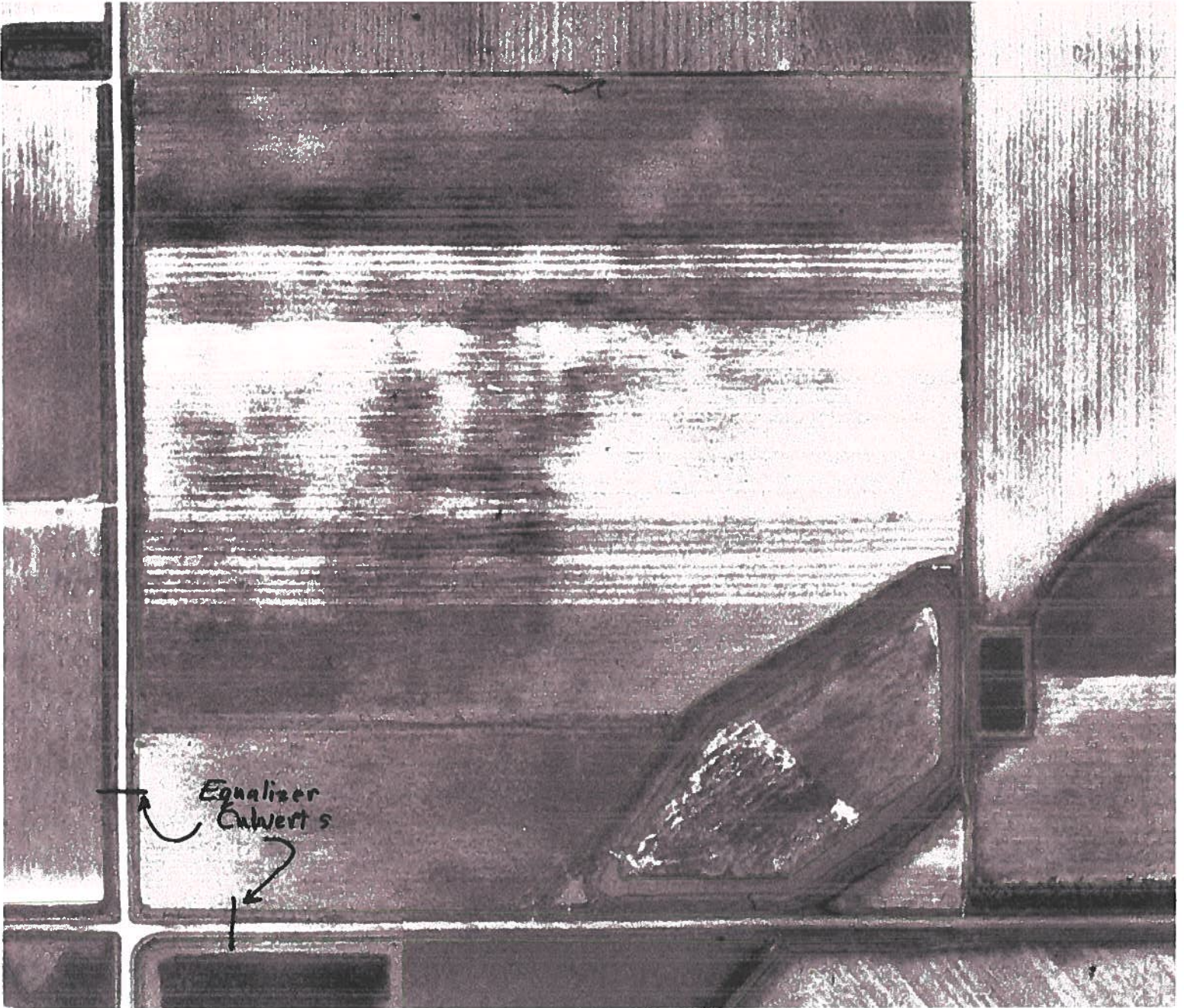


Soils Inventory Report

DONALD R COX

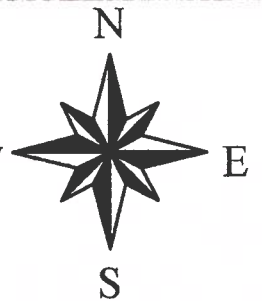
| Tract | Land Unit | Map Unit Symbol | Acres | Percent |
|--------|-----------|-----------------|-------|---------|
| 127 | | Bu | 1.5 | 100% |
| Total: | | | 1.5 | |
| 127 | 1 | Fm | 8 | 5% |
| 127 | 1 | Ce | 12.3 | 8% |
| 127 | 1 | Sc | 19.8 | 13% |
| 127 | 1 | Bu | 114.3 | 74% |
| Total: | | | 154.4 | |

Wetland Reserve Program
Leo Pavelka
Adams County



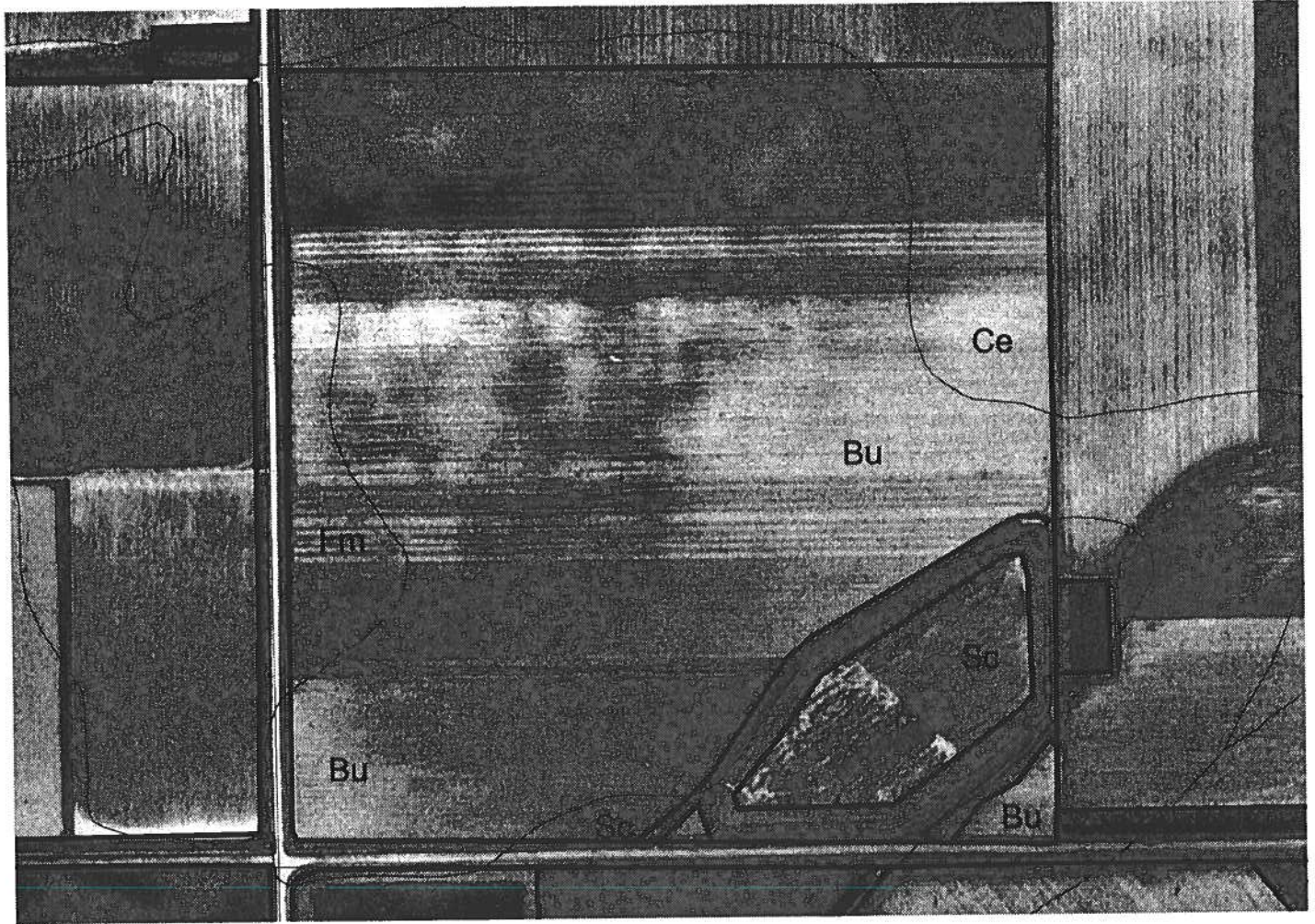
SW 1/4 11-8-9

500 0 500 1000 1500 2000 Feet W

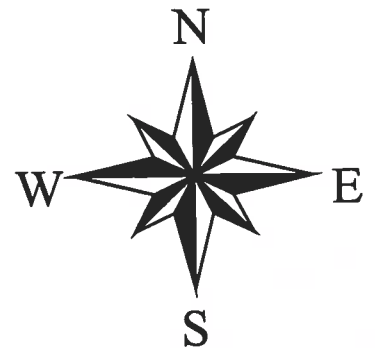


Soils Map

Leo Pavelka, Adams County



SW 1/4 Section 11-T8N-R9W



Non-Technical Descriptions

Soil Survey Area: 1 ADAMS COUNTY, NEBRASKA

Map unit: Bu BUTLER SILT LOAM

Description Category: SOI

This deep, nearly level, somewhat poorly drained soil formed in loess in depressions on uplands. It has a silt loam surface layer and slowly permeable clay and silty clay loam subsoil. It is ponded for short periods after heavy rains. *NHEL (Fm inclusions hydric)*

Map unit: Ce CRETE SILT LOAM

Description Category: SOI

This deep, nearly level moderately well drained soil formed in loess on uplands. It has a silt loam surface layer and slowly permeable silty clay subsoil. *NHEL (Fm inclusions hydric)*

Map unit: Fm FILLMORE SILT LOAM

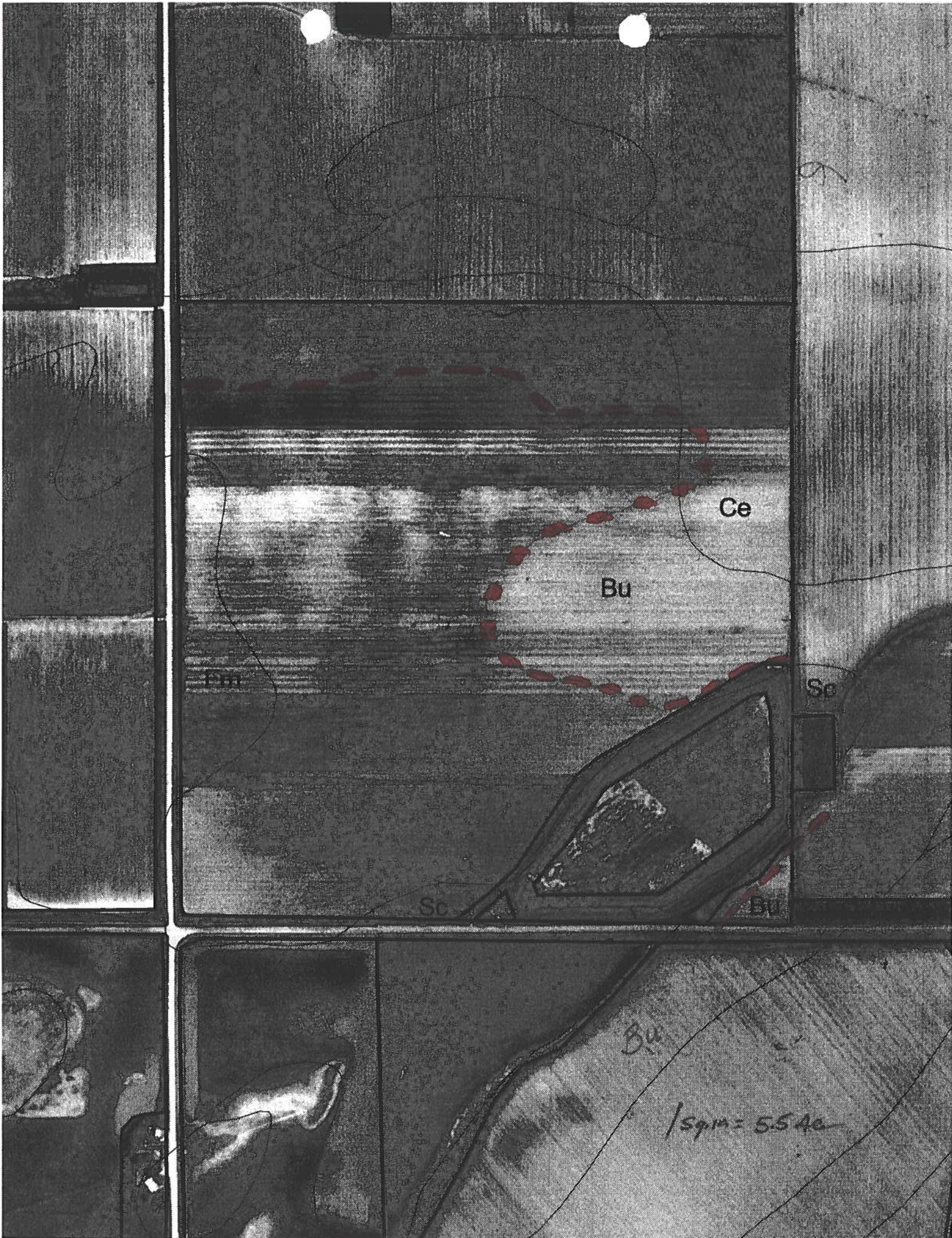
Description Category: SOI

This deep, nearly level, poorly drained soil formed in loess in depressions on uplands and stream terraces. It has a silt loam surface layer and very slowly permeable, silty clay subsoil. It is occasionally ponded after heavy rains. *NHEL / Hydric*

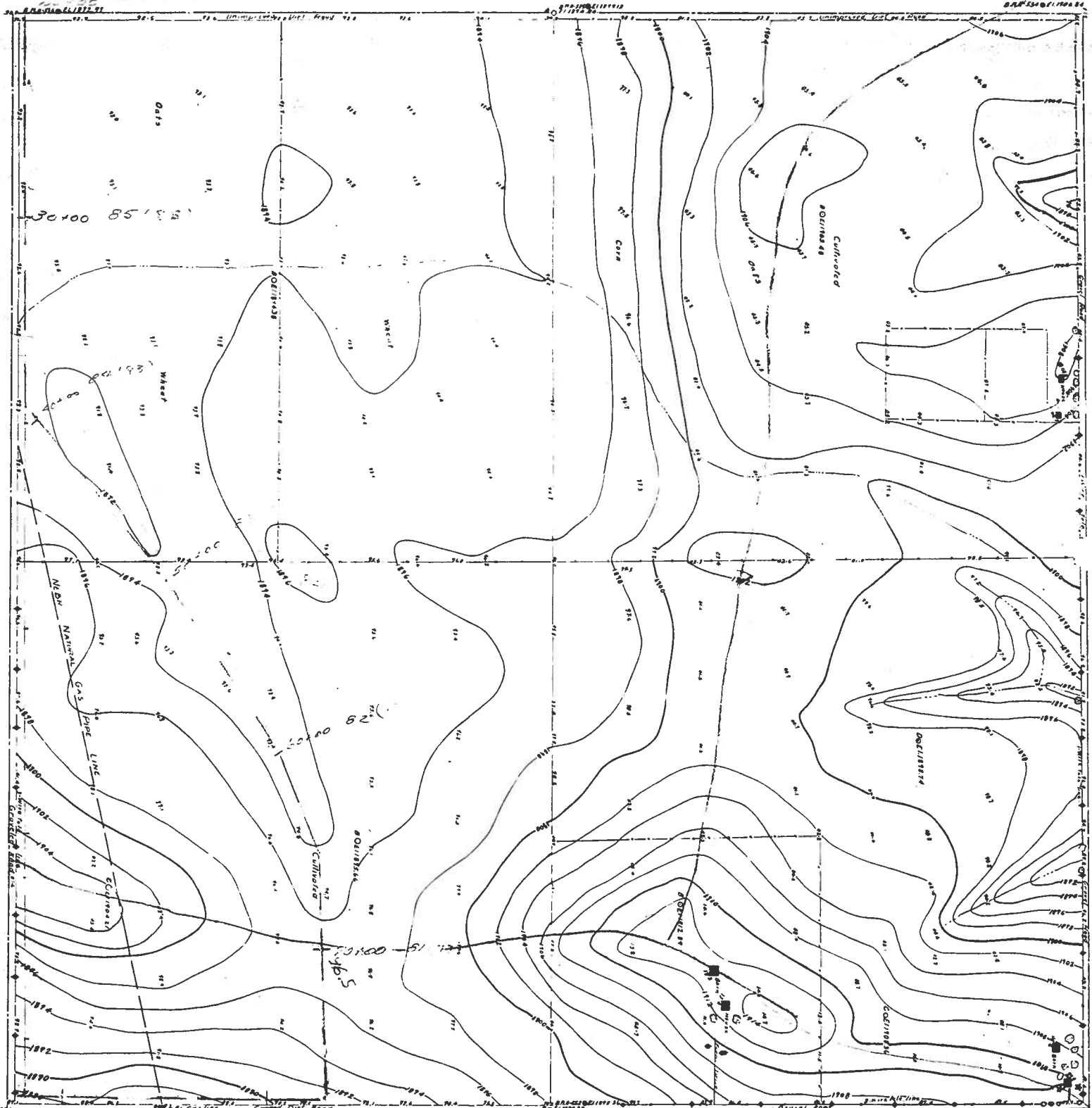
Map unit: Sc SCOTT SILT LOAM

Description Category: SOI

This deep, nearly level, poorly drained soil is formed in loess in upland depressions. It has a silt loam surface layer and very slowly permeable, silty clay and silty clay loam subsoil. This soil is ponded. *NHEL / Hydric*

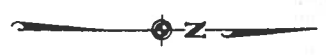


82 (87)



11-8-8
90x100 - 1/2 (72)

80x100 - 80 (75)





Subject: Potential WRP Participant

Date: Wed, 16 Jan 2002 11:18:49 -0600

From: Ken Franzen <ken.franzen@ne.usda.gov>

To: janet.valasek@ne.usda.gov

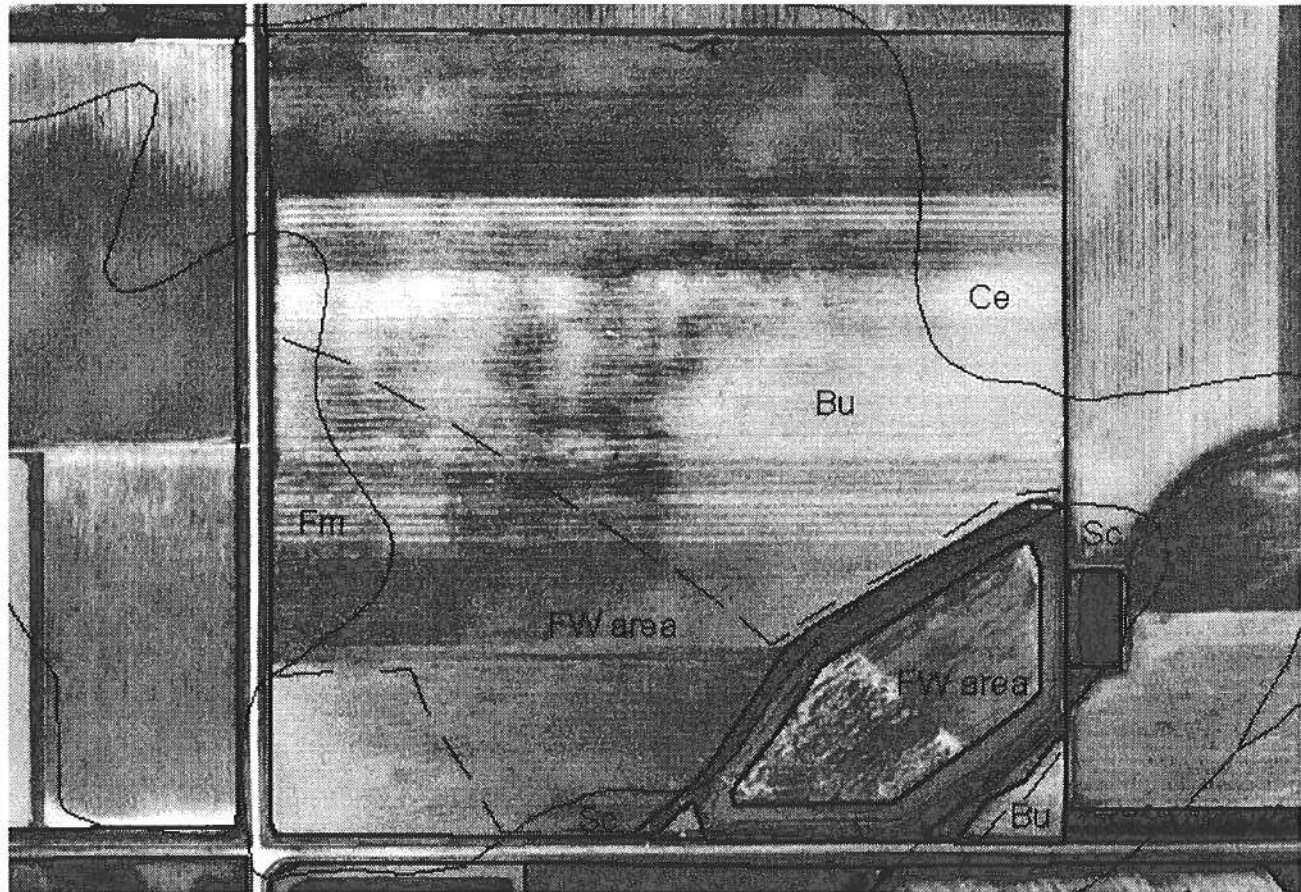
CC: ken.franzen@ne.usda.gov

Hi Janet,

Here goes. I saved the aerial photo under: pavelka.jpg Will try to attach it to this e-mail.

The dashed line indicates the non-certified wetland boundary as it now stands. We called it 52 acres on the 026 sent out in 1990. We probably could be more liberal with the boundary in the Butler soil area to the north of the FW area if we had to.

Ken



U.S. DEPARTMENT OF AGRICULTURE

OMB NO. 0578-0013

COMPATIBLE USE AUTHORIZATION

1. To be completed by NRCS; check appropriate box:

- This transaction is for CCC
- This transaction is for NRCS EWP

- 2. County: Adams
- 3. Contract NO.: _____
- 4. Agreement NO.: 6665260200B6Y
- 5. Expiration Date: 12/31/2033

A. Person Responsible for Agreement Activities (Name and Address):

DONALD R COX REVOCABLE TRUST
3725 E 82nd Street, Hastings

A 1. Person Responsible for Agreement

(Telephone Number): 402-469-6868

B. Purpose:

Grazing - Exp. Date 12/31/2026

528 - Prescribed Grazing

00N - Prescribed Grazing - Manage the harvest of vegetation with grazing and/or browsing animals with the intent to achieve specific ecological, economic and management objectives.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 155.83

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 528 | 00N | Tract 1 Land Unit: 1 |

D. Beginning Condition of Site:

The majority of the easement is made up of smooth brome, with a little amount of big blue stem and switch grass that can be seen on the uplands. The easement doesn't have many forbs due to the smooth brome, so if a seeding were to take place it should be kept in mind. In the wetlands you can find reed canary grass that has been sprayed in the past, but should be sprayed again.

E. Statement of Affect and Compatibility:

An adaptive prescribed grazing plan will be implemented to benefit long term wetland functions, enhance plant communities, decrease stagnant vegetation conditions, suppress woody invaders and enhance hydrological functions within wetlands on the WRP easement. Grazing wetland will reduce the vegetative height to better facilitate low lying areas for migrating waterfowl and shore birds. Noxious weed control is required by state law.

Rotational grazing is beneficial to the habitat and wildlife by increasing the diversity of native grasses and forbs and creating a diversity of vegetative stands. Grazing the same time every year will decrease diversity over time due to selective grazing. Intense grazing at green up or fall will improve the habitat by targeting the undesirable species such as river bulrush, reed canary grass, and cattails, and open the wetland for migratory waterfowl. It also decreased the presence of undesirable cool season grasses (downy brome, Kentucky bluegrass, and smooth brome) and increase diversity of native grasses and forbs. A temporary single wire electric fence set at half power will have no impact on habitat. This will allow for site to be rotationally grazed.

Livestock Watering Facility - The livestock watering facility promotes grazing on the site by providing a reliable source of water for cattle. Grazing will reduce the amount of undesirable plant species, while promoting desirable plants. Reducing undesirable species will promote quality wetland habitat and improve wetland functions and values.
Fence - A perimeter fence will allow the site to be grazed.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

Prescribed Grazing:

1. The landowner will follow this order of rotation for the NRCS grazing plan.
 - a. This site will be grazed by 35 head of cattle between any of the following selection in point 2 below. see list below for schedule of pasture rotation, along with the attached map.
2. The landowner can pick any ONE of the following section of dates to graze the cattle in a year, ensuring that the same field is not grazed more than 152 DAYS until the next grazing season.
 - April 15th - September 15th
 - May 1st - September 30th
 - May 15th - October 15th
 - April 15th - July 16th & September 1st - October 1st
 - May 1st - August 1st & September 15th - November 14th
 - May 15th - August 15th & October 1st - November 30th
3. The WRP easement will be monitored by the landowner to ensure the site is not over grazed which would reduce the biodiversity that is planted on the easement. The minimum height that the key forage species (warm season grasses and forbs) should be grazed to is eight (8) inches. Livestock will be removed when the minimum grazing height has been reached, which may be before the end of the grazing window selected in item 2 above. The landowner will be required to reseed and establish grasses at their own expense if grasses are over utilized.
4. During drought years, the stocking rate must be reduced by 50%. Drought is defined as one or more months at a D2 (Severe Drought) or higher drought rating by the United States Drought Monitor. At a D1 Nebraska experiences stunted growth within the pasture and crop fields. Building a forage bank would benefit the easement during these times, its not required, but recommended.
5. Any deviations from the grazing plan will require the concurrence of the NRCS and will be documented in the grazing plan.
6. Annual grazing is not guaranteed. NRCS retains the right to alter annual grazing strategies to adjust to current ecological site condition and desired management results.

7. Grazing may not occur on the same acres as haying in the same year. Haying is NOT permitted under this CUA.
8. The easement will be monitored by the landowner and NRCS staff for adequate regrowth before the next grazing season.
9. This practice is scheduled to begin in 2024 after approval by the state office.

Fence: A perimeter fence will allow the site to be grazed.

Livestock Well and Tank: There is currently a solar well that can be used to water the cattle during the grazing timeframe.

COMPATIBLE USE AUTHORIZATION

B. Purpose:

Maintenance/Management Activities - Exp. Date 12/31/2033

314 - Brush Management

00N - Brush Management - Remove woody (nonherbaceous or succulent) vegetation including invasive and noxious species using mechanical, chemical and biological methods; either alone or in combination. Brush management will be applied in a manner to achieve the desired control of the target woody species and protection of desired species.

Maintenance/Management Activities - Exp. Date 12/31/2033

315 - Herbaceous Weed Treatment

00N - Herbaceous Weed Treatment - Remove or treat herbaceous weeds including invasive, noxious and prohibited plants using chemical, biological or mechanical methods, either alone or in combination to meet management objectives.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 155.83

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 314 | 00N | Tract 1 Land Unit: 1 |
| 315 | 00N | Tract 1 Land Unit: 1 |

D. Beginning Condition of Site:

The majority of the easement is made up of smooth brome, with a little amount of big blue stem and switch grass that can be seen on the uplands. The easement doesn't have many forbs due to the smooth brome, so if a seeding were to take place it should be kept in mind. In the wetlands you can find reed canary grass that has been sprayed in the past, but should be sprayed again.

E. Statement of Affect and Compatibility:

Wetlands and uplands always offered essential wildlife habitat and natural vegetation that offers food and habitat for many types of wildlife. Without disturbances this habitat and food source can become overgrown, and then the habitat that the wildlife used as shelter begins to decline at a rapid rate. Without changes in frequency and timing of management, this makes wetlands and uplands prone to the same species. By utilizing chemical and mechanical control for undesirable species we can eliminate noxious weeds as well as remove woody species that don't belong on the landscape. By decreasing stagnant vegetation conditions, suppressing woody invaders, and enhancing hydrological functions within the wetlands all along while improving the upland vegetation the wildlife habitat and shelter will improve and increase the population within the area.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

Chemical and Mechanical Control of Undesirable Species (noxious weeds, trees, cattails, bulrush, invasive cool season grasses):

1. This CUA does not authorize the Landowner to treat weeds that are not noxious weeds (state defined) or not considered undesirable by NRCS. Noxious weeds are required by State law and the Warranty Easement Deed to be controlled by the landowner
 - a. State listed noxious weeds are Bohemian, spotted, and diffuse knapweed, Japanese and giant knotweed, sericea lespedeza, purple loosestrife, non-native bio-type of phragmites (common reed), saltcedar, leafy spurge, Canada thistle, musk thistle, and plumeless thistle.
 - b. Species considered undesirable by NRCS because of their potential for becoming invasive and dominant are reed canary grass, cattail, river bulrush, brome species and trees other than American Plum.
 - c. The landowner is also responsible for checking with their county weed authority for county listed noxious weeds.
2. Many species deemed weedy in agricultural land, such as annual sunflowers, are beneficial to wildlife and are not authorized for chemical weed control in this CUA.
3. Spot spraying selective herbicides may be used to control noxious weeds. Spot spraying is authorized whenever an undesirable plant species is present. Spot spraying may occur any year of this CUA if the target species are still present.
4. Herbicide selection shall be based on the targeted species with consideration of protecting native grasses, forbs, sedges, and other desirable plants species. Timing of herbicide application will be conducted to allow for the successful control of targeted species while limiting impact to non-target species.
5. Herbicides will be applied according to the label. The landowner is responsible for following all label requirements on herbicides, including whether the chemical may be sprayed over water, wetland, pasture, etc.
6. Mechanical woody species removal will not be conducted May 1st - July 31st.
7. Trees of any size may be removed by mechanical means.
8. Stumps of deciduous trees must be treated with chemicals such as Remedy Ultra[®], Garlon 3a[®], Garlon 4 Ultra[®], Vastlan[®], Pathfinder II[®], or glyphosate according to the product label within 15 minutes of being cut.
9. Tree removal and disposal will be according to NRCS standards and specifications.
10. This practice is scheduled to begin in 2024 after approval by the state office.

COMPATIBLE USE AUTHORIZATION

B. Purpose:

Maintenance/Management Activities - Exp. Date 12/31/2026

338 - Prescribed Burning

00N - Prescribed Burning - Conduct a prescribed burn according to a prescribed burn plan in order to meet management objectives.

Maintenance/Management Activities - Exp. Date 12/31/2026

383 - Fuel Break

00N - Fuel Break - Treat and/or remove living or dead biomass to reduce wildfire risk.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 155.83

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 338 | 00N | Tract 1 Land Unit: 1 |
| 383 | 00N | Tract 1 Land Unit: 1 |

D. Beginning Condition of Site:

The majority of the easement is made up of smooth brome, with a little amount of big blue stem and switch grass that can be seen on the uplands. The easement doesn't have many forbs due to the smooth brome, so if a seeding were to take place it should be kept in mind. In the wetlands you can find reed canary grass that has been sprayed in the past, but should be sprayed again.

E. Statement of Affect and Compatibility:

Prescribed fire plays a critical role in the ecosystem process and has many benefits to both the wetland and upland plant communities. An adaptive prescribed burn and firebreak plan will be implemented to enhance the plant communities, decrease stagnant vegetation conditions, suppress woody invaders, and enhance hydrological functions within the wetlands. Burning the vegetation reduces the thatch that grows, it creates structural and compositional diversity within the vegetation. This stimulates growth from the existing seed bank and increases palatability of plants for the cattle, increases soil warming properties in the spring, and if correctly timed a burn can have a desired effect on the undesired species within the ecosystem.

Currently the site has the adequate amount of fuel that will accomplish the objectives of burning if timed in the spring or fall. The goals of this burn site are to simulate the warm season grasses and forbs, remove excess litter, reduce the undesirable species that can be found such as Eastern red cedar, cool season grasses (downy brome, Kentucky bluegrass, and smooth brome), cattails, and reed canary grass and to improve wildlife habitat. Once the burn is completed one can expect to see the objectives to be met, but either follow up management practices (grazing, brush management) and a follow-up burn may be needed.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

Prescribed Burn:

1. Prescribed burning will not be allowed from May 1st - July 31st.
2. Prescribed burning is not permitted on areas planted to trees and/or shrubs, unless the species is well established and adapted to withstand prescribed burning (e.g., suckering ability of American Plum).
3. Before burning, landowner will develop a burn plan and will obtain all necessary permits to complete the burn safely. Landowner assumes all responsibility for this activity.
4. This practice is scheduled to begin in 2024 after approval by the state office.

Firebreaks:

1. If a burn plan utilizes hayed firebreaks they should be mowed, then raked (outside the burn area) or baled, to remove duff from the fireline.
2. Mowed/Hayed along with tillage firebreaks may not be installed May 1st - July 15th.
3. Tillage is an acceptable method of installing mineral soil firebreaks. Firebreak dimensions should be sufficient to conduct a safe burn, but tillage breaks may not exceed 20 ft. in width. If the break needs to be wider than 20 ft. it may be mowed or hayed. See haying and mowing restrictions above.
4. This practice is scheduled to begin in 2024 after approval by the state office.

U.S. DEPARTMENT OF AGRICULTURE

OMB NO. 0578-0013

COMPATIBLE USE AUTHORIZATION

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his or her own risk. This authorization does not vest any right of any kind in the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and on referenced documents.

G. Recommended (NRCS Signature): Kaycee Clair ZuschlagG 1. Date: 5/31/2024G 2. Title: Area Easement SpecialistH. Landowner or Representative (Signature): H 1. Date: 6/4/24

H 2. Title: _____

I. Approved (NRCS Signature): -- _____

I 1. Date: -- _____

I 2. Title: _____

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

COMPATIBLE USE AUTHORIZATION

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his or her own risk. This authorization does not vest any right of any kind in the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and on referenced documents.

G. Recommended (NRCS Signature): Kaycee Clair Zuschlag G 1. Date: 5/31/2024

G 2. Title: Area Easement Specialist

H. Landowner or Representative (Signature): _____ H 1. Date _____

H 2. Title: _____

I. Approved (NRCS Signature): Melissa Ann Baier I 1. Date: 8/2/2024

I 2. Title: ASTC - Water Resources & Easements

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

U.S. DEPARTMENT OF AGRICULTURE

OMB NO. 0578-0013

COMPATIBLE USE AUTHORIZATION**OMB DISCLOSURE STATEMENT**

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COMPATIBLE USE AUTHORIZATION

OMB BURDEN STATEMENT

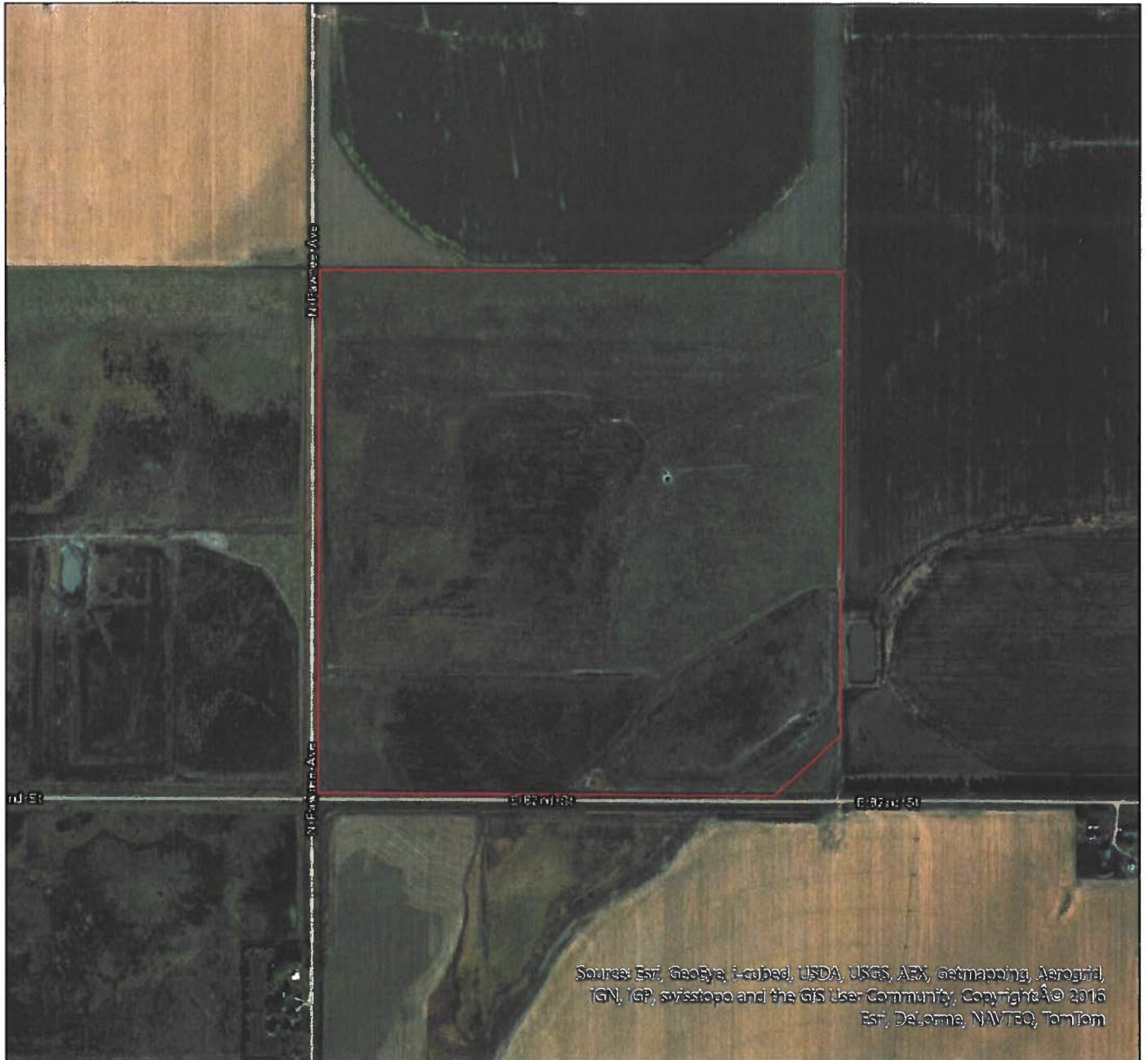
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Easement Plan Map

Date: 5/30/2024

Client(s): DONALD R COX REVOCABLE TRUST
Location: 11-8N-9W
Adams County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
HASTINGS SERVICE CENTER
HASTINGS SOIL & WATER CONSERVATION DISTRICT



Prepared with assistance from USDA-Natural Resources Conservation Service

0 752 Feet

 Easement Layer



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Brush Management Easement Plan Map

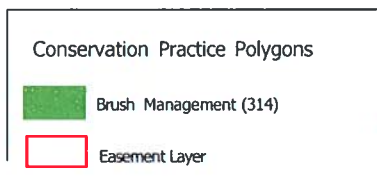
Date: 5/30/2024

Client(s): DONALD R COX REVOCABLE TRUST
Location: 11-8N-9W
Adams County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
HASTINGS SERVICE CENTER
HASTINGS SOIL & WATER CONSERVATION DISTRICT



Prepared with assistance from USDA-Natural Resources Conservation Service



Herbaceous Weed Treatment Easement Plan Map

Date: 5/30/2024

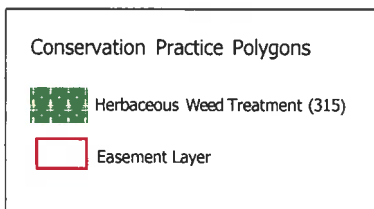
Client(s): DONALD R COX REVOCABLE TRUST
Location: 11-8N-9W
Adams County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYGEE ZUSCHLAG
USDA-NRCS
HASTINGS SERVICE CENTER
HASTINGS SOIL & WATER CONSERVATION DISTRICT



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Prepared with assistance from USDA-Natural Resources Conservation Service



Prescribed Burning Easement Plan Map

Date: 5/30/2024

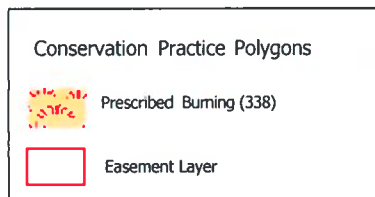
Client(s): DONALD R COX REVOCABLE TRUST
Location: 11-8N-9W
Adams County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
HASTINGS SERVICE CENTER
HASTINGS SOIL & WATER CONSERVATION DISTRICT



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Fuel Break Easement Plan Map

Date: 5/30/2024

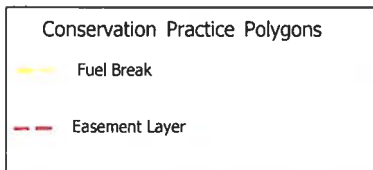
Client(s): DONALD R COX REVOCABLE TRUST
Location: 11-8N-9W
Adams County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
HASTINGS SERVICE CENTER
HASTINGS SOIL & WATER CONSERVATION DISTRICT



Prepared with assistance from USDA-Natural Resources Conservation Service

0 752 Feet



Prescribed Grazing Easement Plan Map

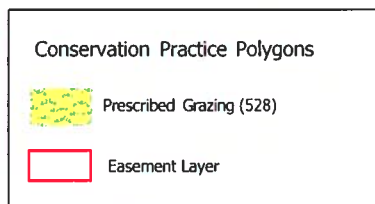
Date: 5/30/2024

Client(s): DONALD R COX REVOCABLE TRUST
Location: 11-8N-9W
Adams County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
HASTINGS SERVICE CENTER
HASTINGS SOIL & WATER CONSERVATION DISTRICT



Prepared with assistance from USDA-Natural Resources Conservation Service



UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|--|---|
| County: Adams | Expiration Date: 12/31/2024 |
| Landowner/Rep (Name & Address): Donald R. Cox Rev Trust & Jeffrey S. Anderson Revocable Living Trust (c/o Don Cox) 3725 E. 82nd St Hastings, NE 68901 | Contract No: 6665260200B6Y 66-6526-2-633 |
| | Authorization No: |
| Purpose: To schedule/allow prescribe burning. To schedule/allow installation of fire breaks. | |
| Land Description (Legal description and attached copy of map): SW1/4 11-8-9W <i>Adams</i> | |
| Beginning Condition of Site (07/10/2020): The main upland area has native grasses and forbs (e.g., switch grass, Indiangrass, big bluestem, foxtail barley, black-eyed Susan, false aster, coreopsis, curly dock, common ragweed, etc.). Smooth brome is also mixed in, particularly on the south side and by the well. Canada thistles are scattered throughout the upland. The southwest and southeast uplands are dominated by smooth brome, mixed with a little Japanese brome, Kentucky bluegrass, western wheat grass, curly dock, bindweed, and bull thistle. The wetland-upland transition zone is a combination of Japanese brome, Kentucky bluegrass, switch grass, reed canary grass, and moist soil species. The main wetland area contains mostly moist soil species (e.g., spikerushes, coreopsis, sedges, sumpweed, western wheat grass, foxtrail barley, ragweeds, dog bane, swamp milkweed, western ironweed, woolly bursage, etc.) but some reed canary grass is present, mainly by the transition zone. The deepest wetland in the southeast mainly has moist soil species (e.g., spikerushes, smartweeds, longleaf pondweed, softstem bulrush, etc.), mixed with some open water, a few cattails and reed canarygrass, and a small patch of river bulrush. | |
| State of Effect & Compatibility: Prescribed fire is critical to the ecosystem processes that leads to great benefits. Burning reduces thatch, creates vegetative structural and composition diversity, stimulates growth from the seed bank, increases palatability of plants for cattle, increases soil warming in the spring, and more. If timed correctly a burn can have a desired effect on undesirable species. This site has adequate fuel to burn that will accomplish the objectives of burning if timed in the spring or fall. The goals of this burn are to stimulate warm season grasses and forbs, improve wildlife habitat, remove excess litter, and reduce undesirable species such as cool season grasses. Once the burn is completed one can expect to see the objectives to be met but other follow up management practices (e.g., grazing, haying, etc.) and a follow up burn may be needed. | |

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Special Conditions (Specifications and other details of permitted activities.):

Prescribed Burning:

1. Prescribed burning is not permitted on areas planted to trees and/or shrubs; unless the species are well established and adapted to withstand prescribed burning (e.g., suckering ability of American Plum).
2. The landowner will obtain all necessary burn permits and **will follow the burn plan developed by NRCS, to safely complete the burn.**
3. Landowner or a hired contractor assumes all responsibility for this activity.
4. For specifications for how the burn is to be complete, see NRCS burn plan.
 - a. Maximum weather factors: wind speed < 20 MPH, relative humidity <25%, and air temperature < 80°F.
5. The NRCS will complete Annual Monitoring after the burn has been completed to determine if objectives of the burn have been met. Dependent on site conditions, the NRCS will determine if follow up subsequent burn is needed.
6. This practice is planned for winter/spring of 2021. If not able to be completed then, the burn will occur fall 2021 and/or winter/spring 2022.
7. A follow up burn may be scheduled up to 3 - 5 years later if there is adequate fuel load present. No more than two burns can be completed within five years.

Firebreaks:

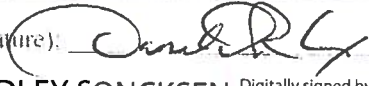
1. Installation of firebreaks should not occur between May 1st - July 15th unless a nest survey has been conducted by a trained professional according to USFWS protocol.
2. Mowed/hayed firebreaks will be used as shown in the burn plan attached. The firebreak must be raked (outside burn area) or baled to remove duff from fire line.
3. This practice is planned for winter/spring of 2021. If not able to be completed then, it will occur fall 2021 and/or winter/spring 2022. This practice must be completed prior to the scheduled burn.

East 1/4
11-8-9W

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

| | | | |
|---|---|---|------------------|
| Recommended (NRCS Signature): | MICHAEL PERRY | Digitally signed by MICHAEL PERRY Date: 2020.09.24 09:37:56 -05'00' | Date: 09-24-2020 |
| Title: | Resource Conservationist | | |
| Landowner or Representative (Signature): |  | | Date: 12/10/20 |
| Approved (NRCS Signature): | BRADLEY SONCKSEN | Digitally signed by BRADLEY SONCKSEN Date: 2021.02.10 11:05:02 -06'00' | Date: |
| Title: | ASTC/Programs | | |
| The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above. | | | |

**UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service**

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|---|---------------------------------------|
| County: Adams | Expiration Date: 12/31/2026 |
| Landowner/Rep (Name & Address): Donald R Cox Revocable Trust 3725 E 82 nd St. Hastings, NE 68901 | Contract No: 66-6526-2-633 |
| | Authorization No: |
| <p>Purpose:</p> <p>To allow for chemical control of noxious weeds and other plant species deemed undesirable by NRCS in order to maintain compliance with state and county weed laws and to encourage annual, food-producing vegetation for waterfowl.</p> <p>To allow for food plots in order to provide a quality food source for wildlife in close proximity to suitable cover.</p> <p>To allow for haying/shredding in order to aid in noxious weed control and to open areas of bare ground for ground-nesting insects and allow for regeneration of suppressed forb species.</p> <p>To allow for tillage in order to set back perennial wetland vegetation and encourage annual, food-producing vegetation for waterfowl.</p> <p>To allow for prescribed burning in order to eliminate thatch, set back tree encroachment, and reinvigorate native plant growth and diversity.</p> <p>To allow for planting of native shrubs in order to provide suitable structure and food sources for shrub-dependent wildlife species.</p> <p>To allow for placement of beehives on the easement to aid in pollination of native wildflowers.</p> <p>To allow for mechanical brush control in order to control trees too large for other control methods and prevent further invasion.</p> | |
| <p>Land Description (Legal description and attached copy of map): SW4 of Sec 11, T8, R9W Adams Co., NE</p> | |
| <p>Beginning Condition of Site (9/13/17): The upland portion of this easement is native warm season grasses and forbs. The wetland area is mostly mid-successional vegetation that includes sedges, rushes, plains coreopsis, and annual sunflowers. The southeast corner of the wetland is mostly barnyard grass with smartweed in the deeper parts of the wetland. Canada thistle has been a problem on this easement.</p> | |
| <p>State of Effect & Compatibility:</p> <p>Chemical Weed Control</p> <p>Noxious weeds, perennial wetland vegetation, trees, and invasive cool season grasses provide a threat to the diversity and function of the easement. Other plant species result in reduced open water and food-producing plants. Chemical control is a critical tool in a multifaceted approach to managing difficult to control plant species.</p> <p>The threshold for broadcast spraying is set at 25% coverage by undesirable species because the Rainwater Basin Joint Venture Best Management Practices (2016) stated that, when an undesirable species is between 25 and 50% coverage, "managers have good success applying active management treatments to significantly reduce its presence."</p> <p>Food Plots</p> <p>Food plots will provide supplemental food and cover for wildlife species as well as enhance recreational hunting use of the property.</p> | |

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Haying/Mowing

Annual haying/mowing will prompt a slight reduction in plant vigor but if timed correctly, especially during low point in the energy reserves of a plant, it can severely reduce its vigor. Mowing grasses like reed canarygrass, should be timed early in the flowering stage to have the maximum detrimental effect. To mow at these times requires the plant to expend a lot of additional stored energy to regrow stems, suppressing its ability to spread and grow vigorously.

Mowing can also be used to create openings in stands of dense vegetation. This can be of benefit to species that need a mix of open water and vegetation (hemi-marsh). This technique is often best utilized in dry years because access to the wetland is easier on dry soils. The effects of this type of treatment tend to be short-lived and the treatment may need to be applied annually to portions of the wetland.

Annual hay harvesting is a tradition and important forage utilization opportunity for many landowners. Utilizing this available forage for feeding cattle is a viable use of wetland and upland vegetation that provides a beneficial disturbance event for the plant community.

Prescribed Burning

Prescribed burning reduces thatch, stimulates growth from the seed bank, increases palatability of wetland plants for cattle, increases soil heating in the spring, and more. The key element (and often challenge) of burning is timing – if timed correctly a burn can have the desired effect on a target species.

In basins that have invasive species problems, a spring burn followed by intense grazing by cattle can be highly beneficial for native vegetation. Trees present another challenge in Basins. In wetlands that are invaded by trees, fall burning will kill or suppress woody vegetation.

Shrub Planting

Establishing native, fruiting, shrub thickets will add diversity to the site and provide additional food and shelter resources for wildlife. Only species that are native to this range will be planted.

Bee Hives

Bees will provide pollinating services for the native plants.

Mechanical Brush Control

In the absence of natural disturbance processes (burning, grazing, and flooding) wetlands become ideal sites for trees to grow. Some of the trees are native species like Cottonwood, while others are less desirable non-native species like Siberian Elm. Tree invasion can be a serious problem in wetlands, especially in the eastern two thirds of Nebraska. When left untreated for a long period of time, more intensive mechanical tree removal methods are necessary to restore the wetland to an herbaceous community.

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Haying/Mowing

1. Half of the easement area (east half or west half) may be hayed or mowed annually as long as it has not been grazed in the same year.
2. The same half may not be hayed or mowed consecutive years. The units must be rotated.
3. Annual haying is not guaranteed.
4. Haying/mowing will not occur April 1st – July 15th unless a nest survey has been conducted by a trained professional according to USFWS protocol.
5. Haying/mowing may not occur after September 1st to allow for adequate regrowth prior to a hard freeze.
6. A minimum stubble height of 3 inches must be left after haying/mowing.
7. All baled hay will be removed from easement area within 30 days from the time of baling.
8. Haying/mowing may not occur on the same acres as grazing in the same year.
9. Haying or mowing is not permitted on areas planted to trees and/or shrubs.
10. Timing of haying or mowing will be conducted to allow for the successful control of targeted species while limiting impact to non-target species.
11. This activity will begin in 2018.

Tillage

1. Tillage will not occur May 1st - July 15th unless a nest survey has been conducted by a trained professional according to USFWS protocol.
2. Wetland tillage may be used when one or more undesirable plant species combined cover at least 25% of the tillage area. Wetland tillage will entail either one-time disking OR one round with a heavy disk followed with the finish disk 1 – 12 months later. Wetland tillage may occur any year of this CUA as long as the target species still cover at least 25% of the tillage area.
3. Tillage is restricted to wetland areas unless it is used to install firebreaks.
4. Tillage is an acceptable method of installing mineral soil firebreaks. Firebreak dimensions should be sufficient enough to conduct a safe burn, but tilled breaks may not exceed 20 ft. in width. If the break needs to be wider than 20 ft. it may be mowed or hayed. See haying and mowing restrictions above.
5. Tillage is not permitted on areas planted to trees and/or shrubs.
6. This activity will begin in 2017.

Prescribed Burning

1. Prescribed burning will not be allowed from May 1st - July 15th unless a nest survey has been conducted by a trained professional according to USFWS protocol.
2. Timing of prescribed burns should be determined by objectives (e.g., control of cool-season grasses, trees, and robust emergent vegetation considered undesirable to NRCS; pre-treatment for targeted grazing or chemical application; etc.)
3. If a burn plan utilizes hayed firebreaks they should be mowed, then raked (outside the burn area) or baled, to remove duff from the fireline.
4. Prescribed burning should be considered when:
 - a. controlling tree, broadleaf, or grass species that are considered undesirable by NRCS;
 - b. needing to reduce excessive litter; or
 - c. needing to increase tiller production of desirable grass species.
5. Prescribed burning is not permitted on areas planted to trees and/or shrubs; unless the species is well established and adapted to withstand prescribed burning (e.g., suckering ability of American Plum).
6. Before burning, landowner will develop a burn plan and will obtain all necessary permits to complete the burn safely. Landowner assumes all responsibility for this activity.
7. This activity will begin in 2018.

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Special Conditions (Specifications and other details of permitted activities.):

Chemical Weed Control

1. This CUA does not authorize the Landowner to treat weeds that are not noxious weeds (state defined) or not considered undesirable by NRCS. Noxious weeds are required by State law and the Warranty Easement Deed to be controlled by the landowner.
 - a. State listed noxious weeds are Canada thistle, musk thistle, plumeless thistle, Japanese and giant knotweed, leafy spurge, the non-native bio-type of phragmites, purple loosestrife, saltcedar, spotted and diffuse knapweed, and sericea lespedeza.
 - b. Species considered undesirable by NRCS in this wetland complex because of their potential for becoming invasive and dominant are reed canarygrass, cattail, river bulrush, brome species, and trees other than sand plum.
 - c. The landowner is also responsible for checking with their county weed authority for county listed noxious weeds.
 - d. Many species deemed weedy in agricultural land, such as annual sunflowers, are beneficial to wildlife and are not authorized for chemical weed control in this CUA.
2. Spot spraying selective herbicides may be used to control noxious weeds and other plants that are undesirable to NRCS. Spot spraying is authorized whenever an undesirable plant species is present. Spot spraying may occur any year of this CUA as long as the target species is still present.
3. Broadcast spraying may be used when one or more undesirable plant species combined cover at least 25% of the spray area. Broadcast spraying may occur any year of this CUA as long as the target species still cover at least 25% of the spray area.
4. Mowing may be used as a pretreatment for herbicide application. See Haying/Mowing section below for more details. Mowing may not occur May 1st – July 15th without a trained professional conducting a nest survey according to USFWS protocol.
5. Herbicide selection shall be based on the targeted species with consideration of protecting native grasses, forbs, sedges, and other desirable plants species. Timing of herbicide application will be conducted to allow for the successful control of targeted species while limiting impact to non-target species.
6. Herbicides will be applied according to the label. The landowner is responsible for following all label requirements on herbicides, including whether the chemical may be sprayed over water, wetland, pasture, etc.
7. This activity will begin in 2017.

Food Plots

1. Food plots are limited to not more than five (5) percent of the total easement area.
2. The food plots cannot be harvested as a commodity crop. NRCS retains the right to make final decision on what species is to be planted.
3. The food plots must provide a diversity of habitat and contribute to the life cycle needs or food requirements of target wildlife species or guild of species of concern.
4. A maximum of two, three-acre food plots may be established. Location, configuration, and spatial arrangement are described in the attached map.
5. If food plots are abandoned, the landowner is responsible for reseeding the area to native vegetation under NRCS specifications, if deemed necessary by NRCS.
6. Planting or alteration of food plots may not conflict with federal or state baiting laws.
7. This activity will begin in 2018.

**UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service**

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Shrub Planting:

1. Shrub species and planting sites will follow the attached map.
2. Planting sites must be prepared by first spraying the area to kill existing vegetation.
3. One week following the herbicide treatment (at the earliest) the sites will be disked or rototilled thoroughly to create suitable planting conditions. This must be done in the fall preceding the spring that the shrubs are planned to be planted. This will allow freeze/thaw activities to mellow the soil.
4. All shrub plots will measure 30x50 ft.
5. Row spacing will be 3 ft. apart with 3 ft. between plants within the rows.
6. No weed mats will be used.
7. Immediately after the shrubs are planted, the plots should be sprayed with a shrub-safe pre-emergent herbicide to reduce competition from grasses and other weeds. This will need to be a routine activity until the shrubs canopy.
8. This activity will begin in 2018.

Beehives:

1. The area covered by hives may be no larger than 2,500 sq. ft.
2. Beekeeping activities (e.g., loading/unloading hives, access trails) should minimize vegetative disturbance. In the event of extreme disturbance, the landowner shall be responsible for restoring the area to NRCS standards and specifications.
3. This activity will begin in 2018.

Mechanical Brush Control:

1. Mechanical woody species removal will not be conducted April 1st - July 15th unless a nesting survey has been conducted by a trained professional according to USFWS protocol. Mechanical brush control is acceptable at any time of year outside of this time period. Mechanical brush control may occur any year of this CUA as long as undesirable trees are present.
2. Trees of any size may be removed by mechanical means.
3. Stumps of deciduous trees must be treated within 15 minutes of being cut.
4. Tree removal and disposal will be according to NRCS standards and specifications.
5. This activity will begin in 2017.

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

Recommended (NRCS Signature): Scott Aden Date: 10/17/17

Title: WRP/WRE Management Biologist

X Landowner or Representative (Signature): [Signature] ^{Trustee} Reversible Grant Date: 10/15/17

Approved (NRCS Signature): **BRADLEY** Digitally signed by BRADLEY
SONCKSEN Date: _____

Title: **SONCKSEN** Date: 2017.10.20 07:56:01
-05'00'

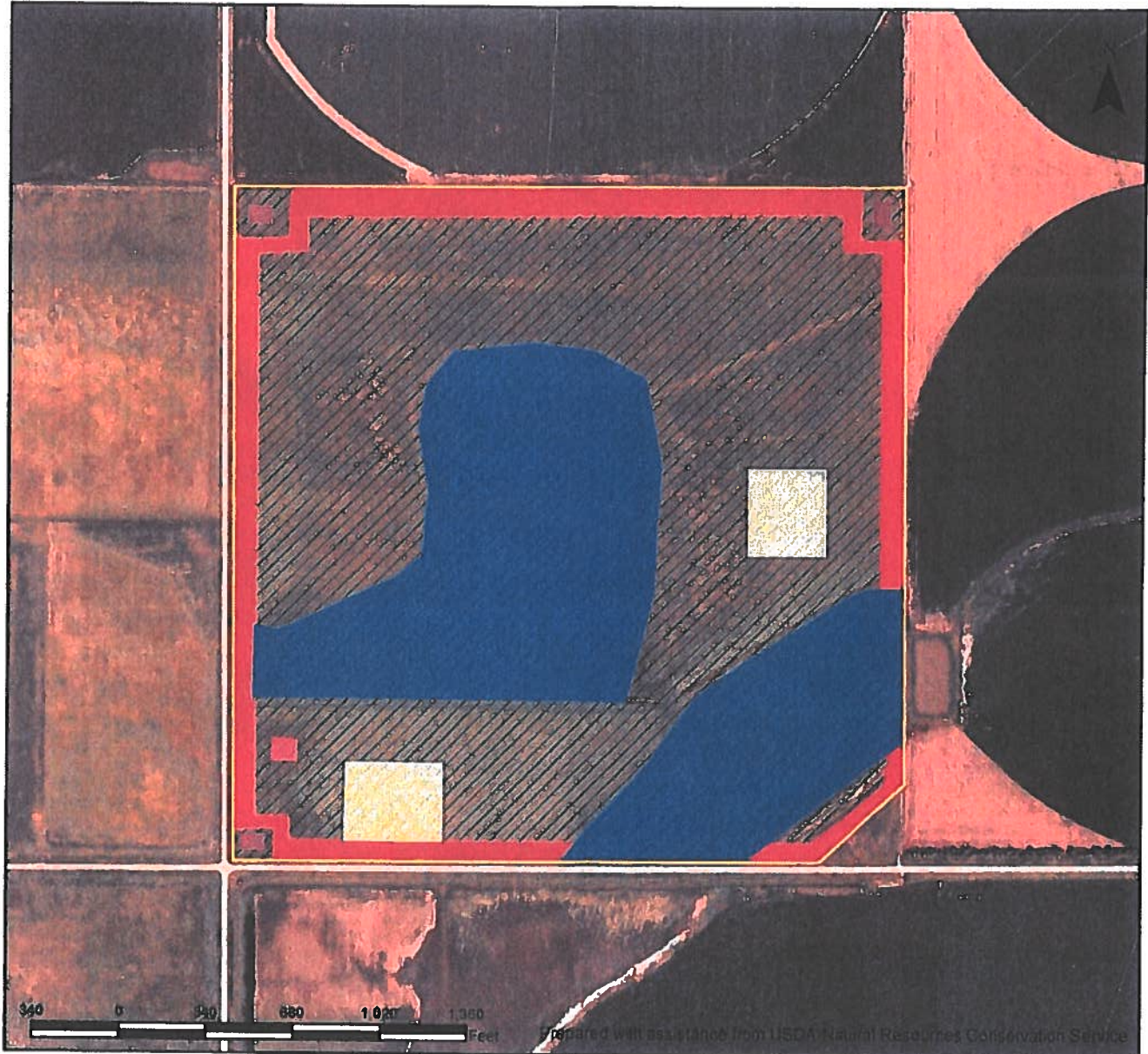
The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

2017 CUA

Date: 10/4/2017

Customer(s): DONALD R COX
Approximate Acres: 156.03
Legal Description: 11-8-9W Adams Co.

Field Office: Gothenburg
Agency: NRCS/NGPC
Assisted By: SCOTT ADEN



Legend

-  WRP Boundary
-  Food Plot
-  Tillage
-  Tillage- Firebreak
-  Plum Thicket
-  Bee Hives
-  Chemical Weed Control, Mechanical Brush Management, and Prescribed Burning

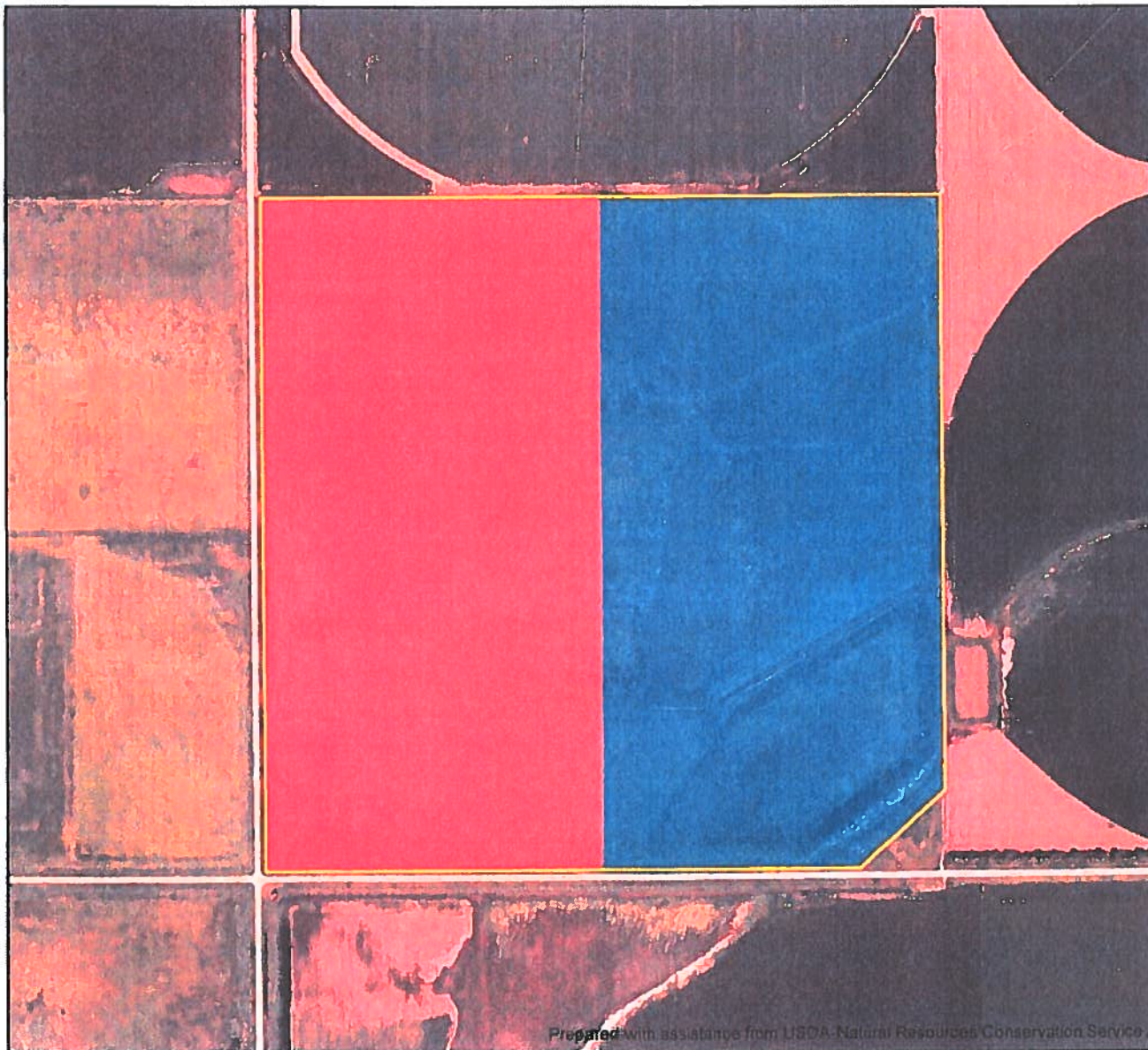


2017 CUA- Haying

Date: 10/4/2017

Customer(s) DONALD R COX
Approximate Acres: 156.03
Legal Description: 11-8-9W Adams Co

Field Office: Gothenburg
Agency: NRCS/NGPC
Assisted By: SCOTT ADEN



Legend

-  WRP Boundary
-  East Half
-  West Half



COMPATIBLE USE AUTHORIZATION

1. To be completed by NRCS; check appropriate box:



This transaction is for CCC



This transaction is for NRCS EWP

2. County: Adams

3. Contract NO.: _____

4. Agreement NO.: 6665260200B6Y

5. Expiration Date: 12/31/2033

A. Person Responsible for Agreement Activities (Name and Address):

DONALD R COX REVOCABLE TRUST

A 1. Person Responsible for Agreement

3725 E 82nd Street, Hastings

(Telephone Number): 402-469-6868

B. Purpose:

Grazing - Exp. Date 12/31/2026

528 - Prescribed Grazing

00N - Prescribed Grazing - Manage the harvest of vegetation with grazing and/or browsing animals with the intent to achieve specific ecological, economic and management objectives.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 155.83

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 528 | 00N | Tract 1 Land Unit: 1 |

D. Beginning Condition of Site:

The majority of the easement is made up of smooth brome, with a little amount of big blue stem and switch grass that can be seen on the uplands. The easement doesn't have many forbs due to the smooth brome, so if a seeding were to take place it should be kept in mind. In the wetlands you can find reed canary grass that has been sprayed in the past, but should be sprayed again.

E. Statement of Affect and Compatibility:

An adaptive prescribed grazing plan will be implemented to benefit long term wetland functions, enhance plant communities, decrease stagnant vegetation conditions suppress woody invaders and enhance hydrological functions within wetlands on the WRP easement. Grazing wetland will reduce the vegetative height to better facilitate low lying areas for migrating waterfowl and shore birds. Noxious weed control is required by state law.

Rotational grazing is beneficial to the habitat and wildlife by increasing the diversity of native grasses and forbs and creating a diversity of vegetative stands. Grazing the same time every year will decrease diversity over time due to selective grazing. Intense grazing at green up or fall will improve the habitat by targeting the undesirable species such as river bulrush, reed canary grass, and cattails, and open the wetland for migratory waterfowl. It also decreased the presence of undesirable cool season grasses (downy brome, Kentucky bluegrass, and smooth brome) and increase diversity of native grasses and forbs. A temporary single wire electric fence set at half power will have no impact on habitat. This will allow for site to be rotationally grazed.

Livestock Watering Facility - The livestock watering facility promotes grazing on the site by providing a reliable source of water for cattle. Grazing will reduce the amount of undesirable plant species, while promoting desirable plants. Reducing undesirable species will promote quality wetland habitat and improve wetland functions and values.
Fence - A perimeter fence will allow the site to be grazed.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

Prescribed Grazing:

1. The landowner will follow this order of rotation for the NRCS grazing plan.
- a. This site will be grazed by 35 head of cattle between any of the following selection in point 2 below, see list below for schedule of pasture rotation, along with the attached map.
2. The landowner can pick any ONE of the following section of dates to graze the cattle in a year, ensuring that the same field is not grazed more than 152 DAYS until the next grazing season.
 - April 15th – September 15th
 - May 1st – September 30th
 - May 15th – October 15th
 - April 15th – July 16th & September 1st – October 1st
 - May 1st – August 1st & September 15th – November 14th
 - May 15th – August 15th & October 1st – November 30th
3. The WRP easement will be monitored by the landowner to ensure the site is not over grazed which would reduce the biodiversity that is planted on the easement. The minimum height that the key forage species (warm season grasses and forbs) should be grazed to is eight (8) inches. Livestock will be removed when the minimum grazing height has been reached, which may be before the end of the grazing window selected in item 2 above. The landowner will be required to reseed and establish grasses at their own expense if grasses are over utilized.
4. During drought years, the stocking rate must be reduced by **50%**. Drought is defined as one or more months at a D2 (Severe Drought) or higher drought rating by the United States Drought Monitor. At a D1 Nebraska experiences stunted growth within the pasture and crop fields. Building a forage bank would benefit the easement during these times, its not required, but recommended.
5. Any deviations from the grazing plan will require the concurrence of the NRCS and will be documented in the grazing plan.
6. Annual grazing is not guaranteed. NRCS retains the right to alter annual grazing strategies to adjust to current ecological site condition and desired management results.

7. Grazing may not occur on the same acres as haying in the same year. Haying is NOT permitted under this CUA.
8. The easement will be monitored by the landowner and NRCS staff for adequate regrowth before the next grazing season.
9. This practice is scheduled to begin in 2024 after approval by the state office.

Fence: A perimeter fence will allow the site to be grazed.

Livestock Well and Tank: There is currently a solar well that can be used to water the cattle during the grazing timeframe.

COMPATIBLE USE AUTHORIZATION

B. Purpose:

Maintenance/Management Activities - Exp. Date 12/31/2033

314 - Brush Management

00N - Brush Management - Remove woody (nonherbaceous or succulent) vegetation including invasive and noxious species using mechanical, chemical and biological methods; either alone or in combination. Brush management will be applied in a manner to achieve the desired control of the target woody species and protection of desired species.

Maintenance/Management Activities - Exp. Date 12/31/2033

315 - Herbaceous Weed Treatment

00N - Herbaceous Weed Treatment - Remove or treat herbaceous weeds including invasive, noxious and prohibited plants using chemical, biological or mechanical methods, either alone or in combination to meet management objectives.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 155.83

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 314 | 00N | Tract 1 Land Unit: 1 |
| 315 | 00N | Tract 1 Land Unit: 1 |

D. Beginning Condition of Site:

The majority of the easement is made up of smooth brome, with a little amount of big blue stem and switch grass that can be seen on the uplands. The easement doesn't have many forbs due to the smooth brome, so if a seeding were to take place it should be kept in mind. In the wetlands you can find reed canary grass that has been sprayed in the past, but should be sprayed again.

E. Statement of Affect and Compatibility:

Wetlands and uplands always offered essential wildlife habitat and natural vegetation that offers food and habitat for many types of wildlife. Without disturbances this habitat and food source can become overgrown, and then the habitat that the wildlife used as shelter begins to decline at a rapid rate. Without changes in frequency and timing of management, this makes wetlands and uplands prone to the same species. By utilizing chemical and mechanical control for undesirable species we can eliminate noxious weeds as well as remove woody species that don't belong on the landscape. By decreasing stagnant vegetation conditions, suppressing woody invaders, and enhancing hydrological functions within the wetlands all along while improving the upland vegetation the wildlife habitat and shelter will improve and increase the population within the area.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

Chemical and Mechanical Control of Undesirable Species (noxious weeds, trees, cattails, bulrush, invasive cool season grasses):

1. This CUA does not authorize the Landowner to treat weeds that are not noxious weeds (state defined) or not considered undesirable by NRCS. Noxious weeds are required by State law and the Warranty Easement Deed to be controlled by the landowner.
 - a. State listed noxious weeds are Bohemian, spotted, and diffuse knapweed, Japanese and giant knotweed, sericea lespedeza, purple loosestrife, non-native bio-type of phragmites (common reed), saltcedar, leafy spurge, Canada thistle, musk thistle, and plumeless thistle.
 - b. Species considered undesirable by NRCS because of their potential for becoming invasive and dominant are reed canary grass, cattail, river bulrush, brome species and trees other than American Plum.
 - c. The landowner is also responsible for checking with their county weed authority for county listed noxious weeds.
2. Many species deemed weedy in agricultural land, such as annual sunflowers, are beneficial to wildlife and are not authorized for chemical weed control in this CUA.
3. Spot spraying selective herbicides may be used to control noxious weeds. Spot spraying is authorized whenever an undesirable plant species is present. Spot spraying may occur any year of this CUA if the target species are still present.
4. Herbicide selection shall be based on the targeted species with consideration of protecting native grasses, forbs, sedges, and other desirable plants species. Timing of herbicide application will be conducted to allow for the successful control of targeted species while limiting impact to non-target species.
5. Herbicides will be applied according to the label. The landowner is responsible for following all label requirements on herbicides, including whether the chemical may be sprayed over water, wetland, pasture, etc.
6. Mechanical woody species removal will not be conducted May 1st - July 31st.
7. Trees of any size may be removed by mechanical means.
8. Stumps of deciduous trees must be treated with chemicals such as Remedy Ultra®, Garlon 3a®, Garlon 4 Ultra®, Vastlan®, Pathfinder II®, or glyphosate according to the product label within 15 minutes of being cut.
9. Tree removal and disposal will be according to NRCS standards and specifications.
10. This practice is scheduled to begin in 2024 after approval by the state office.

COMPATIBLE USE AUTHORIZATION

B. Purpose:

Maintenance/Management Activities - Exp. Date 12/31/2026

338 - Prescribed Burning

00N - Prescribed Burning - Conduct a prescribed burn according to a prescribed burn plan in order to meet management objectives.

Maintenance/Management Activities - Exp. Date 12/31/2026

383 - Fuel Break

00N - Fuel Break - Treat and/or remove living or dead biomass to reduce wildfire risk.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 155.83

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 338 | 00N | Tract 1 Land Unit: 1 |
| 383 | 00N | Tract 1 Land Unit: 1 |

D. Beginning Condition of Site:

The majority of the easement is made up of smooth brome, with a little amount of big blue stem and switch grass that can be seen on the uplands. The easement doesn't have many forbs due to the smooth brome, so if a seeding were to take place it should be kept in mind. In the wetlands you can find reed canary grass that has been sprayed in the past, but should be sprayed again.

E. Statement of Affect and Compatibility:

Prescribed fire plays a critical role in the ecosystem process and has many benefits to both the wetland and upland plant communities. An adaptive prescribed burn and firebreak plan will be implemented to enhance the plant communities, decrease stagnant vegetation conditions, suppress woody invaders, and enhance hydrological functions within the wetlands. Burning the vegetation reduces the thatch that grows, it creates structural and compositional diversity within the vegetation. This stimulates growth from the existing seed bank and increases palatability of plants for the cattle, increases soil warming properties in the spring, and if correctly timed a burn can have a desired effect on the undesired species within the ecosystem.

Currently the site has the adequate amount of fuel that will accomplish the objectives of burning if timed in the spring or fall. The goals of this burn site are to simulate the warm season grasses and forbs, remove excess litter, reduce the undesirable species that can be found such as Eastern red cedar, cool season grasses (downy brome, Kentucky bluegrass, and smooth brome), cattails, and reed canary grass and to improve wildlife habitat. Once the burn is completed one can expect to see the objectives to be met, but other follow-up management practices (grazing, brush management) and a follow-up burn may be needed.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

Prescribed Burn:

1. Prescribed burning will not be allowed from May 1st - July 31st.
2. Prescribed burning is not permitted on areas planted to trees and/or shrubs; unless the species is well established and adapted to withstand prescribed burning (e.g., suckering ability of American Plum).
3. Before burning, landowner will develop a burn plan and will obtain all necessary permits to complete the burn safely. Landowner assumes all responsibility for this activity.
4. This practice is scheduled to begin in 2024 after approval by the state office.

Firebreaks:

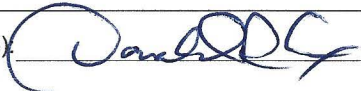
1. If a burn plan utilizes hayed firebreaks they should be mowed, then raked (outside the burn area) or baled, to remove duff from the fireline.
2. Mowed/Hayed along with tillage firebreaks may not be installed May 1st – July 15th.
3. Tillage is an acceptable method of installing mineral soil firebreaks. Firebreak dimensions should be sufficient to conduct a safe burn, but tilled breaks may not exceed 20 ft. in width. If the break needs to be wider than 20 ft. it may be mowed or hayed. See haying and mowing restrictions above.
4. This practice is scheduled to begin in 2024 after approval by the state office.

U.S. DEPARTMENT OF AGRICULTURE

OMB NO. 0578-0013

COMPATIBLE USE AUTHORIZATION

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his or her own risk. This authorization does not vest any right of any kind in the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and on referenced documents.

G. Recommended (NRCS Signature): Kaycee Clair ZuschlagG 1. Date: 5/31/2024G 2. Title: Area Easement SpecialistH. Landowner or Representative (Signature): H 1. Date: 6/4/24

H 2. Title: _____

I. Approved (NRCS Signature): --

I 1. Date: --

I 2. Title: _____

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

COMPATIBLE USE AUTHORIZATION

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his or her own risk. This authorization does not vest any right of any kind in the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and on referenced documents.

G. Recommended (NRCS Signature): Kaycee Clair Zuschlag G 1. Date: 5/31/2024

G 2. Title: Area Easement Specialist

H. Landowner or Representative (Signature): _____ H 1. Date _____

H 2. Title: _____

I. Approved (NRCS Signature): Melissa Ann Baier I 1. Date: 8/2/2024

I 2. Title: ASTC - Water Resources & Easements

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

COMPATIBLE USE AUTHORIZATION

OMB DISCLOSURE STATEMENT

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 40 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

NONDISCRIMINATION STATEMENT

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its program and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of Discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW., Washington, DC 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

PRIVACY ACT STATEMENT

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 522a). Furnishing this information is voluntary; however, failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other State or Federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

COMPATIBLE USE AUTHORIZATION

OMB BURDEN STATEMENT

Federal Agencies may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Public reporting burden for this collection of information is estimated to average 40 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM (OMB NO. 0578-0013), Stop 7630, Washington, D.C. 20250-7630.

Easement Plan Map

Date: 5/30/2024


Client(s): DONALD R COX REVOCABLE TRUST
Location: 11-8N-9W
Adams County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
HASTINGS SERVICE CENTER
HASTINGS SOIL & WATER CONSERVATION DISTRICT



Prepared with assistance from USDA-Natural Resources Conservation Service



 Easement Layer

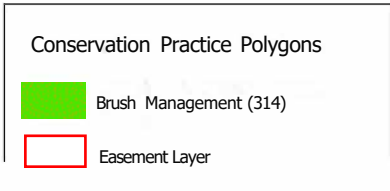
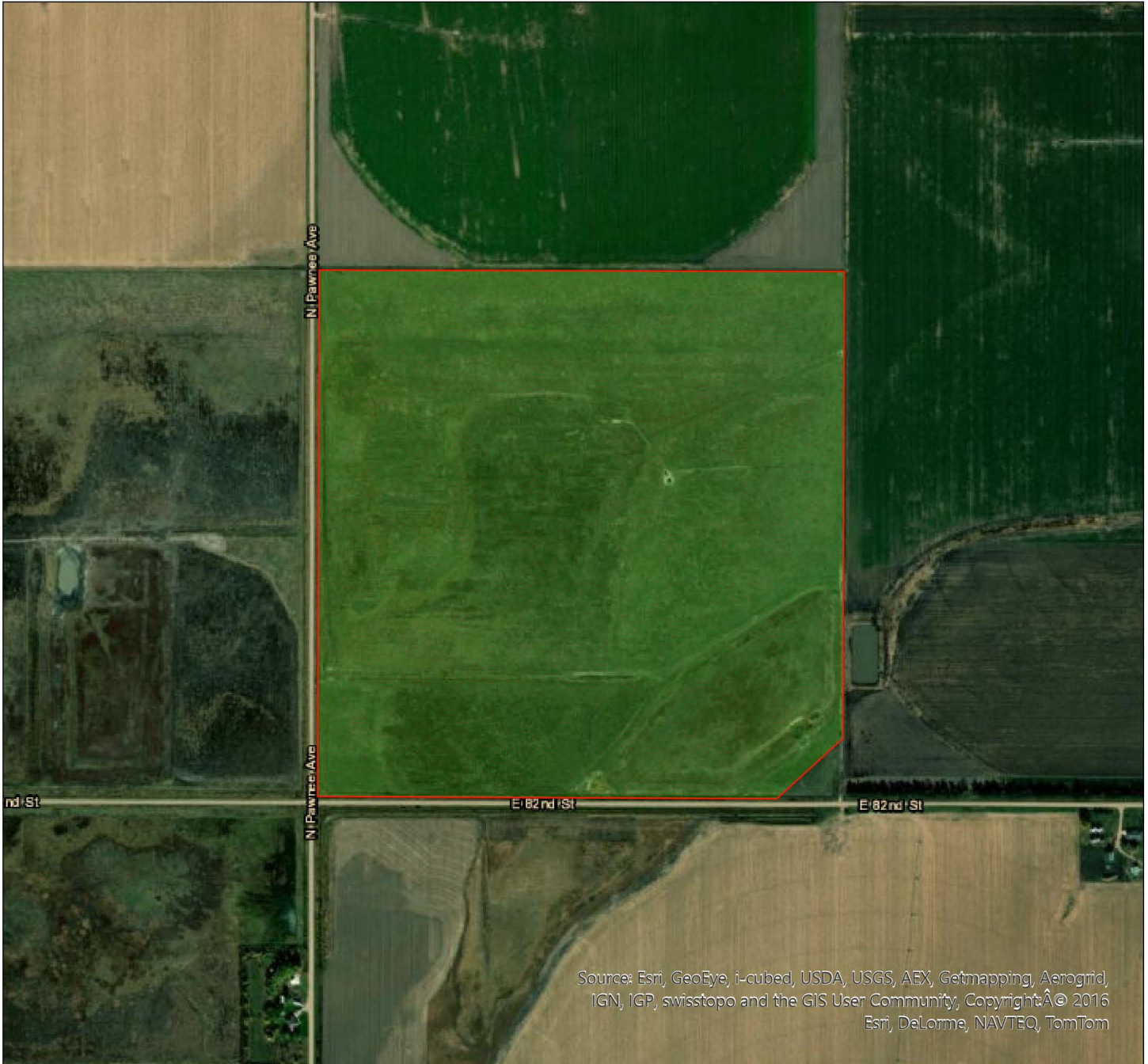


Brush Management Easement Plan Map

Date: 5/30/2024

Client(s): DONALD R COX REVOCABLE TRUST
Location: 11-8N-9W
Adams County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
HASTINGS SERVICE CENTER
HASTINGS SOIL & WATER CONSERVATION DISTRICT



Prepared with assistance from USDA-Natural Resources Conservation Service



Herbaceous Weed Treatment Easement Plan Map

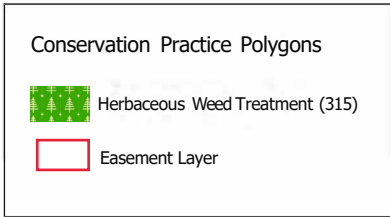
Date: 5/30/2024

Client(s): DONALD R COX REVOCABLE TRUST
Location: 11-8N-9W
Adams County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
HASTINGS SERVICE CENTER
HASTINGS SOIL & WATER CONSERVATION DISTRICT



Prepared with assistance from USDA-Natural Resources Conservation Service

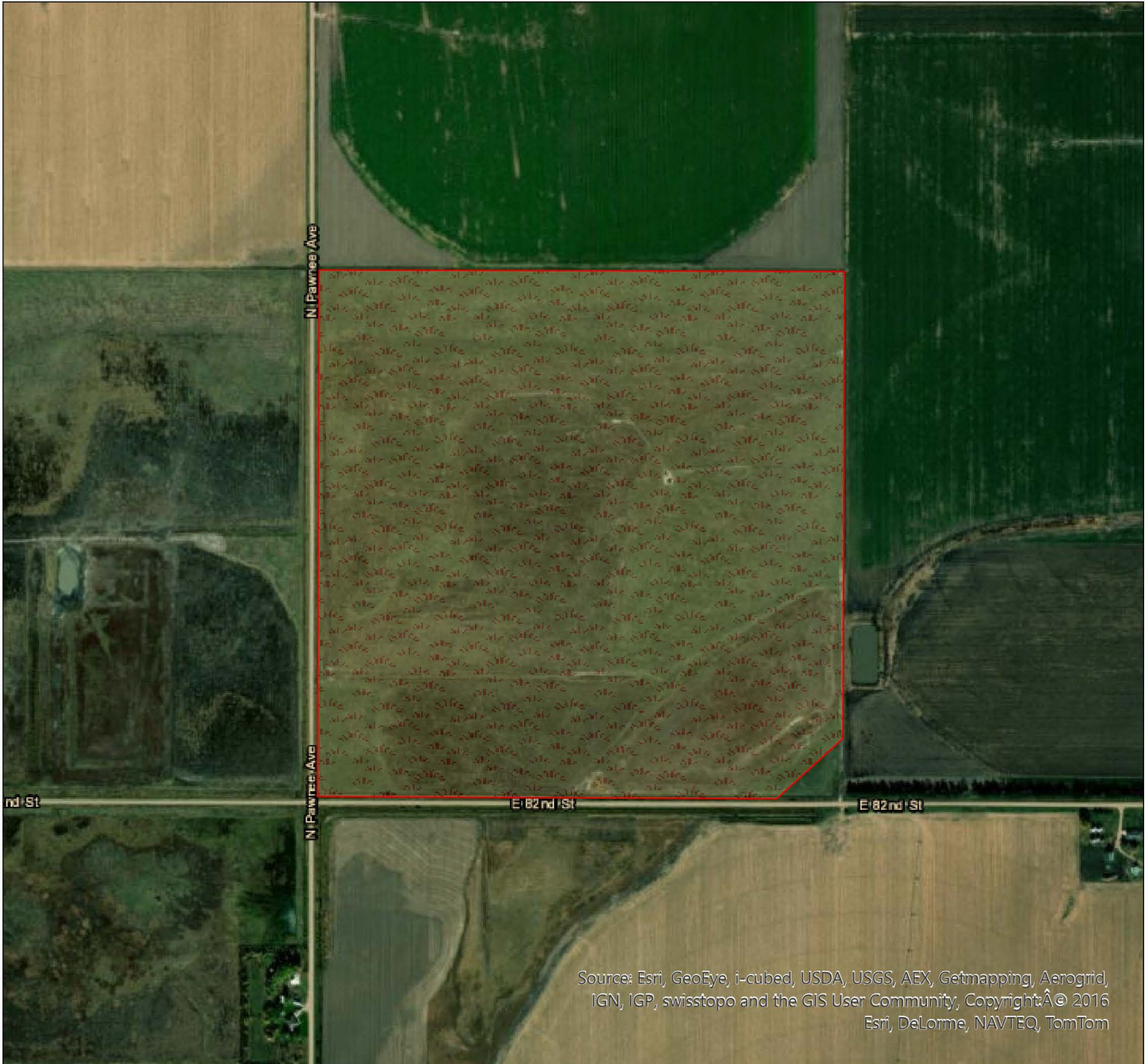


Prescribed Burning Easement Plan Map

Date: 5/30/2024

Client(s): DONALD R COX REVOCABLE TRUST
Location: 11-8N-9W
Adams County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
HASTINGS SERVICE CENTER
HASTINGS SOIL & WATER CONSERVATION DISTRICT





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Prepared with assistance from USDA-Natural Resources Conservation Service



Conservation Practice Polygons

-  Prescribed Burning (338)
-  Easement Layer

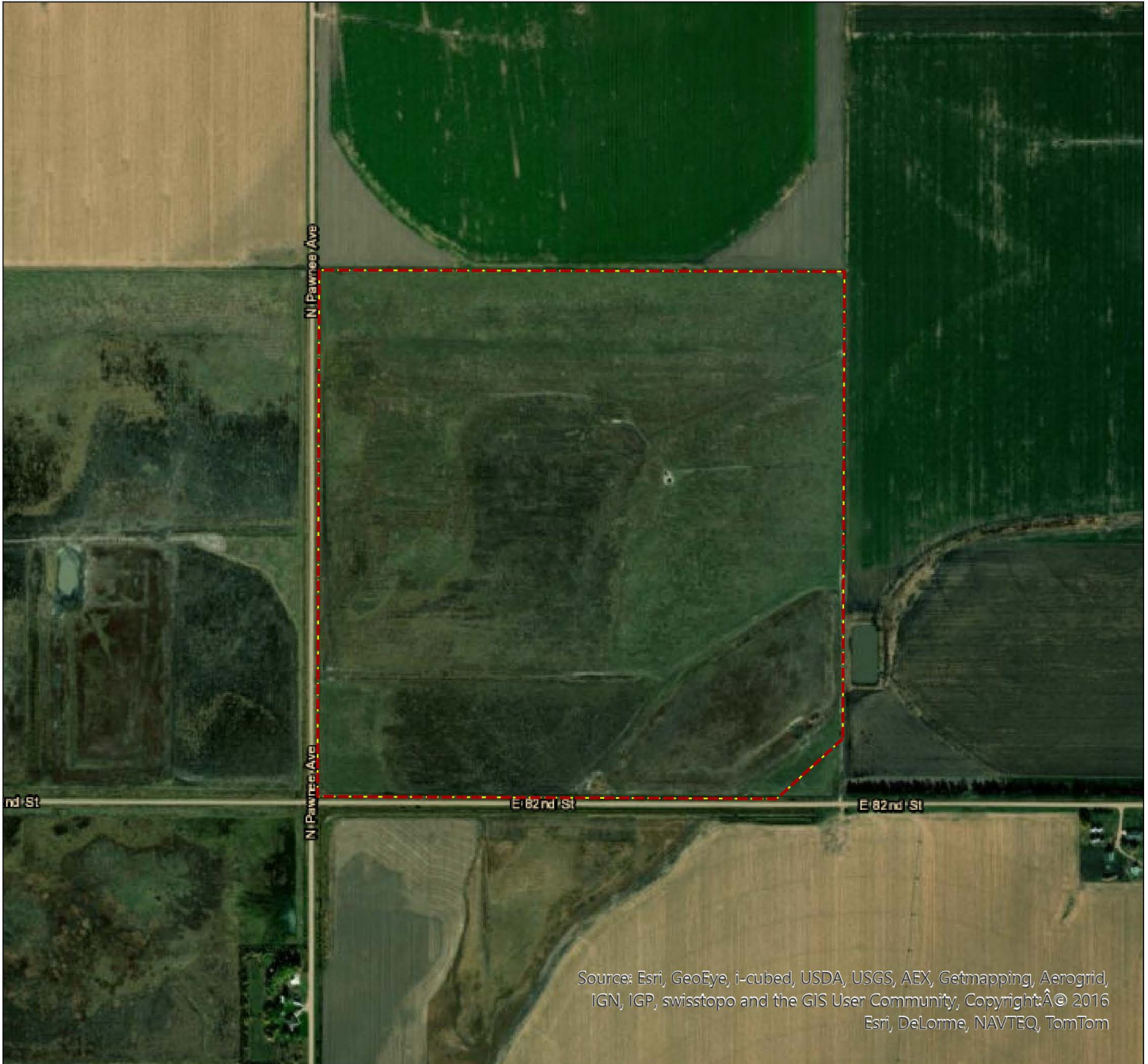


Fuel Break Easement Plan Map

Date: 5/30/2024

Client(s): DONALD R COX REVOCABLE TRUST
Location: 11-8N-9W
Adams County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
HASTINGS SERVICE CENTER
HASTINGS SOIL & WATER CONSERVATION DISTRICT



Prepared with assistance from USDA-Natural Resources Conservation Service

0 752 Feet

Conservation Practice Polygons

- Fuel Break
- Easement Layer



Prescribed Grazing Easement Plan Map

Date: 5/30/2024

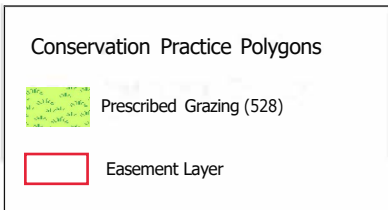
Client(s): DONALD R COX REVOCABLE TRUST
Location: 11-8N-9W
Adams County, Nebraska
Land Units: Tract 1, Fields 1

Assisted By: KAYCEE ZUSCHLAG
USDA-NRCS
HASTINGS SERVICE CENTER
HASTINGS SOIL & WATER CONSERVATION DISTRICT



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Prepared with assistance from USDA-Natural Resources Conservation Service



NEBRASKA WETLANDS RESERVE PROGRAM

PRELIMINARY RESTORATION PLAN **

Landowner: Harold Hurst **County:** Adams
Address: 620 N. Shore Dr. **Tract #:** 1345
Hastings **Legal:** 5 1/2 NE 1/4
NEBR 68901 **Site Ac:** 78
Date: 6/13/05

LANDOWNER OBJECTIVES: Restore Wetland Hydrology for wildlife

TEAM OBJECTIVES: Restore wetland hydrology functions. Wetland area will utilize existing seed bank for revegetation. Remove sediment to restore hydrology.

| FIELD # | PRACTICE | QUANTITY | EST. COST |
|---------|---------------------------|------------------|-----------|
| 1 | Excavation (berm removal) | 3500 cy @ 1.25 | 4375.00 |
| | Sediment removal | 37,000 cy @ 1.25 | 46,250.00 |
| | Upland wildlife habitat | | |
| | Grass seed/Sodas | 4 Acres @ 112.00 | 448.00 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TOTAL ESTIMATED RESTORATION COST \$ 51073.00

NOTES: Sediment removal material shall be removed to SE part of property.

INITIAL & DATE - LANDOWNER: _____ **NRCS:** for 6/13/05 **FWS/ING&P:** HB

6/13/05

** Attach photo with easement boundaries and practice locations identified.

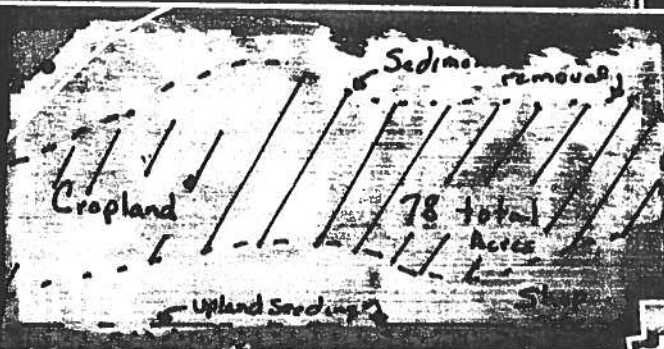
1
156.4
NHEL

1
133.5
NHEL

2931
T-1373

2754
T-6692

157.4
NHEL



2281
T-1398

2281
T-6653

2907
T-7443

1
156.2
NHEL

1
65.4
NHEL

1
70.6
NHEL

400 0 400 800 1200 1600 2000 2400 2800 3200 3600 Feet



United States Department of Agriculture

T-8-N R-9-W
Section 15

Farm Service Agency



June 13, 2005

Adams County

2003 Digital Orthophotography - Not to Scale

1978 PHOTOGRAPH
NOT TO SCALE

Adams Co. Photo K 2
T-4-W R-9-W 70 Sec. 13

2
113

3
114.5

O-138 232 Harold Hurst
WRP

LEGEND

- DIKE
- UPLAND BUFFER
- CONVERT DEEP WATER TO SHALLOW WATER
- ALLOW NATURAL RE-ESTABLISHMENT OF WETLAND VEGET.

~~TRANSFERRED TO~~
~~CLAY COUNTY~~
Lee Saathoff WRP

Easement Boundary?

O-25

O-286

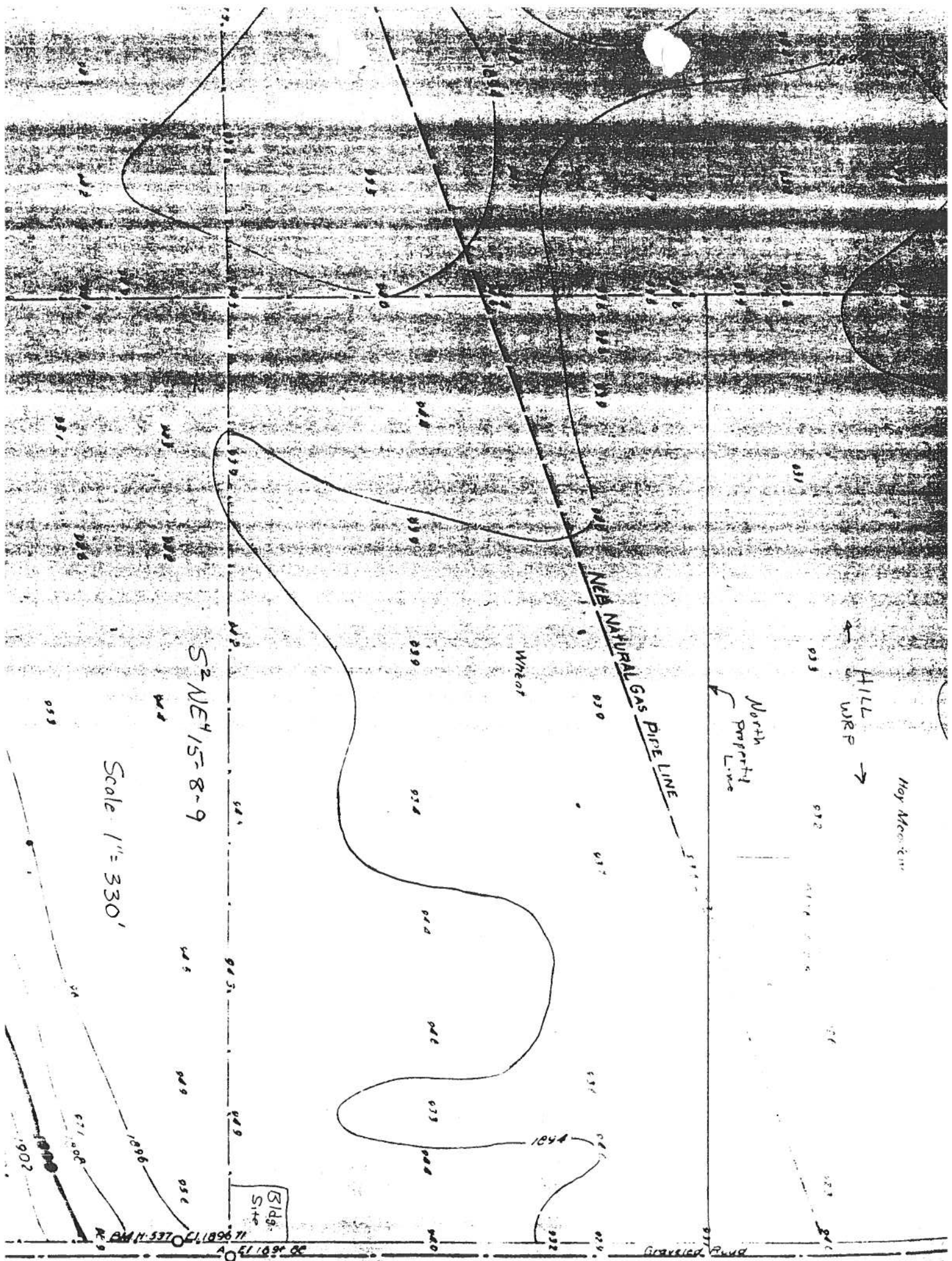
O-287

O-288

49.3

76.0

57.0



S2 NE 1/4 15-8-9

Scale 1" = 330'

NEW NATURAL GAS PIPE LINE

Wheat

HILL WRP

North Property Line

Hoy Mountain

RIDG. Site

BM 11-537

EL 1099.00

Gravelled Road



HASTINGS SERVICE CENTER
 2727 W 2ND ST
 HASTINGS, NE 68901-4608
 4024636771 ext. 3

SHANDA KS WEBER
 RESOURCE CONSERVATIONIST

Conservation Plan

DONALD R COX
 3725 E 82ND ST
 HASTINGS, NE 68901

JEFFREY S ANDERSON REV LIVING TRUST
 1810 COLONIAL PLACE
 HASTINGS, NE 68901

OBJECTIVE(S)

To re-establish both wetland and upland habitat through the Wetland Reserve Program.

Crop

Tract: 1345

Brush Management

Excess brush will be controlled to maintain the production of desirable grass. Mechanical brush control specifications will be requested before any work is done on site. This practice requires a compatible use agreement.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| WL1 | 77.9 ac | 1 | 2008 | | |
| Total: | 77.9 ac | | | | |

Early Successional Habitat Development/Management

When establishing herbaceous cover, weeds that are not threatening stand establishment will be managed to benefit wildlife. All noxious weeds must be controlled. This cover will be managed according to the Wetland Reserve Program specifications.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| WL1 | 77.9 ac | 1 | 2008 | | |
| Total: | 77.9 ac | | | | |

Pest Management

Weeds and other pests that inhibit stand establishment will be controlled. Noxious weeds must be controlled according to State Noxious Weed Law. Refer to Nebraska Conservation Planning Sheet 19 (WETLAND RESERVE PROGRAM COVER MAINTENANCE REQUIREMENTS/OPTIONS) for requirements/options.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| WL1 | 77.9 ac | 1 | 2008 | | |
| Total: | 77.9 ac | | | | |

Upland Wildlife Habitat Management

Wildlife habitat will be maintained to benefit desired types of wildlife according to WRP cover management requirements. Refer to WRP restoration and management plan.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| WL1 | 77.9 ac | 1 | 2008 | | |
| Total: | 77.9 ac | | | | |

Wetland Restoration

Wetlands will be restored. Wetland Restoration activities will be completed by NRCS and/or its agents. Specifications will be obtained from NRCS prior to any restoration activities.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| WL1 | 77.9 ac | 1 | 2008 | | |
| Total: | 77.9 ac | | | | |

Wetland Wildlife Habitat Management

Wildlife habitat will be established or maintained to benefit waterfowl and other wildlife according to WRP cover management requirements. Refer to WRP restoration and management plan.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| WL1 | 77.9 ac | 1 | 2008 | | |
| Total: | 77.9 ac | | | | |

A resource management system that improves wildlife habitat will be applied. It consists of the conservation practices listed for the field(s).

PUBLIC BURDEN STATEMENT

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection information.

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Soils Map

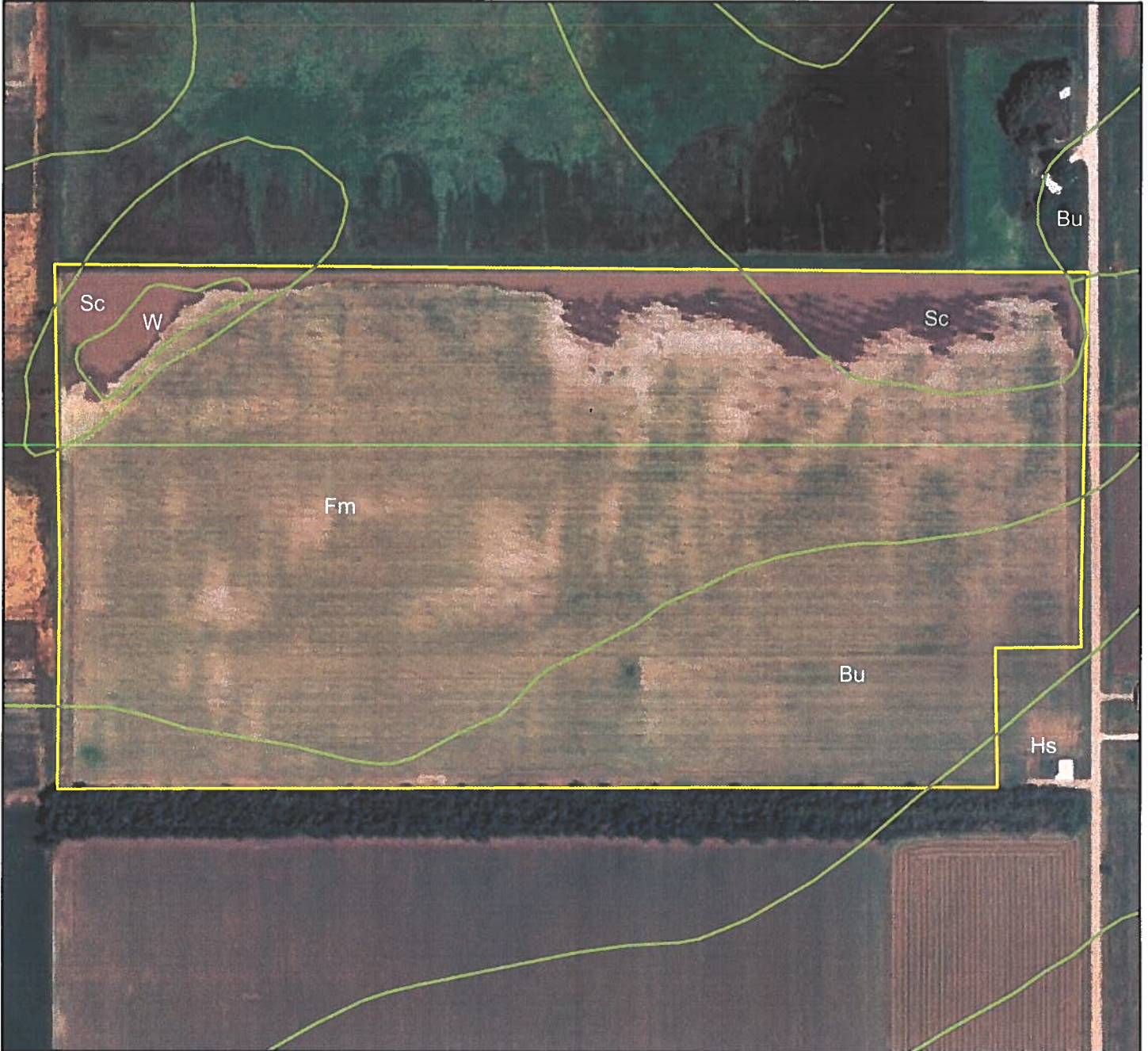
Date: 1/14/2008

Customer(s): JEFFREY S ANDERSON REV LIVING TRUST,
DONALD R COX

District: LITTLE BLUE NRD

Legal Description: S1/2NE1/4 Section 15 T-8-N R-9-W

Field Office: HASTINGS SERVICE CENTER
Agency: Natural Resources Conservation Service
Assisted By: Shanda Ks Weber
State and County: NE, ADAMS



Legend



-  Soils
-  WRP



Soils Inventory Report

DONALD R COX

| Tract | Land Unit | Map Unit Symbol | Acres | Percent |
|--------|-----------|-----------------|-------|---------|
| 1345 | WL1 | Hs | 0.3 | 0% |
| 1345 | WL1 | W | 1.3 | 2% |
| 1345 | WL1 | Sc | 7.2 | 9% |
| 1345 | WL1 | Bu | 19.7 | 25% |
| 1345 | WL1 | Fm | 49.6 | 64% |
| Total: | | | 78.1 | |

Map Unit Description (Brief, Generated)

Adams County, Nebraska

[Minor map unit components are excluded from this report]

Map unit: ^{Bu} 3820 - Butler silt loam, 0 to 1 percent slopes

Component: Butler (98%)

The Butler component makes up 98 percent of the map unit. Slopes are 0 to 1 percent. This component is on swales on interfluves on uplands. The parent material consists of loess. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches is high. Shrink-swell potential is high. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 6 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 3 percent. This component is in the R075XY057NE Clayey ecological site. Nonirrigated land capability classification is 2w. Irrigated land capability classification is 2w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Map unit: ^{Hs} 3864 - Hastings silt loam, 0 to 1 percent slopes

Component: Hastings (100%)

The Hastings component makes up 100 percent of the map unit. Slopes are 0 to 1 percent. This component is on interfluves on uplands. The parent material consists of loess. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R075XY058NE Loamy Upland ecological site. Nonirrigated land capability classification is 1. Irrigated land capability classification is 1. This soil does not meet hydric criteria.

Map unit: ^{Sc} 3910 - Scott silt loam, frequently ponded

Component: Scott (100%)

The Scott component makes up 100 percent of the map unit. Slopes are 0 to 1 percent. This component is on playas on uplands. The parent material consists of loess. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is high. Shrink-swell potential is moderate. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 6 inches during March, April, May, June, July. Organic matter content in the surface horizon is about 3 percent. This component is in the R075XY049NE Clayey Overflow ecological site. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent.

Map unit: ^{FM} 3952 - Fillmore silt loam, frequently ponded

Component: Fillmore (97%)

The Fillmore component makes up 97 percent of the map unit. Slopes are 0 to 1 percent. This component is on playas on uplands. The parent material consists of loess. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches is high. Shrink-swell potential is high. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during March, April, May, June, July. Organic matter content in the surface horizon is about 3 percent. This component is in the R075XY049NE Clayey Overflow ecological site. Nonirrigated land capability classification is 4w. Irrigated land capability classification is 4w. This soil meets hydric criteria.

Hydric Soils

Adams County, Nebraska

| Map symbol and map unit name | Component | Percent of map unit | Landform | Hydric rating | Hydric criteria |
|--|-----------|---------------------|----------|---------------|-----------------|
| 3820: <i>Bu</i> Butler silt loam, 0 to 1 percent slopes | Fillmore | 2 | Playas | Yes | 2A |
| 3910: <i>Sc</i> Scott silt loam, frequently ponded | Scott | 100 | Playas | Yes | 2B3, 3 |
| 3952: <i>Fm</i> Fillmore silt loam, frequently ponded | Fillmore | 97 | Playas | Yes | 2A |
| | Scott | 3 | Playas | Yes | 2B3, 3 |

Explanation of hydric criteria codes:

1. All Histels except for Folistels, and Histosols except for Folist.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
 - A. are somewhat poorly drained and have a water table at the surface (0.0 feet) during the growing season, or
 - B. are poorly drained or very poorly drained and have either:
 - 1.) a water table at the surface (0.0 feet) during the growing season if textures are coarse sand, sand, or fine sand in all layers within a depth of 20 inches, or
 - 2.) a water table at a depth of 0.5 foot or less during the growing season if permeability is equal to or greater than 6.0 in/hr in all layers within a depth of 20 inches, or
 - 3.) a water table at a depth of 1.0 foot or less during the growing season if permeability is less than 6.0 in/hr in any layer within a depth of 20 inches.
3. Soils that are frequently ponded for long or very long duration during the growing season.
4. Soils that are frequently flooded for long or very long duration during the growing season.

COMPATIBLE USE AUTHORIZATION

1. To be completed by NRCS; check appropriate box:

This transaction is for CCC

This transaction is for NRCS EWP

2. County: Adams

3. Contract NO.: _____

4. Agreement NO.: 6665260500BCP

5. Expiration Date: 12/31/2024

A. Person Responsible for Agreement Activities (Name and Address):

Daniel J Wiebe

A 1. Person Responsible for Agreement

(Telephone Number): 402 462 0252

B. Purpose:

Grazing - Exp. Date 12/31/2024

528 - Prescribed Grazing

00N - Prescribed Grazing - Manage the harvest of vegetation with grazing and/or browsing animals with the intent to achieve specific ecological, economic and management objectives.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 78.30

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 528 | 00N | Tract 1 Land Unit: 1 |

D. Beginning Condition of Site:

(1/13/2021) Good variety of native grasses and forbs present. The wetland contains foxtail, foxtail barley, coreopsis, sedges, rush, and iva. Cattails and river bulrush are present but were grazed and were dry in the summer.

E. Statement of Affect and Compatibility:

Grazing is a beneficial management tool for upland and wetland habitats when used properly. It can help control undesirable species and promote productivity of selected species. Grazing on this site will help control undesirable plant species and promote overall vegetative health. Grazing in late summer to fall and in early spring will help manage for invasive cool season grasses.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

1. Landowner will follow the NRCS grazing plan.
 - a. 2023: 10 cow/calf pairs between May 1 - Aept 30 for up to 140 days
 - b. 2024: 35 cow/calf pairs between green up - June 15 for up to 60 days.
2. Any deviations from the grazing plan will require the concurrence of the NRCS and will be documented in the grazing plan.
3. Annual grazing is not guaranteed. NRCS retains the right to alter annual grazing strategies to adjust to currnet ecological site condition and desired management results.
4. During drought years, the stocking rate must be reduced by 25%. Drought is defined as one or more months at a D2 (Severe Drought) or higher drought rating by the United States Drought Monitor.
5. The easement will be monitored by the landowner to ensure the site is not overgrazed.
6. This practice will begin in 2023 after approval by the State Office.

COMPATIBLE USE AUTHORIZATION

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his or her own risk. This authorization does not vest any right of any kind in the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and on referenced documents.

| | | | |
|---|---------------------------------|------------|------------------|
| G. Recommended (NRCS Signature): | <u>Kristi L Schleif</u> | G 1. Date: | <u>1/27/2023</u> |
| G 2. Title: | <u>Area Easement Specialist</u> | | |
| H. Landowner or Representative (Signature): | <u><i>Daniel J. Leach</i></u> | H 1. Date: | <u>4-4-2023</u> |
| H 2. Title: | <u>Member of FNF LLC</u> | | |
| I. Approved (NRCS Signature): | <u>--</u> | I 1. Date: | <u>--</u> |
| I 2. Title: | <u>_____</u> | | |

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

COMPATIBLE USE AUTHORIZATION

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| | | | |
|---|---------------------------------|------------|------------------|
| G. Recommended (NRCS Signature): | <u>Kristi L Schleif</u> | G 1. Date: | <u>1/27/2023</u> |
| G 2. Title: | <u>Area Easement Specialist</u> | | |
| H. Landowner or Representative (Signature): | _____ | H 1. Date | _____ |
| H 2. Title: | _____ | | |
| I. Approved (NRCS Signature): | <u>Bradley D Soncksen</u> | I 1. Date: | <u>4/7/2023</u> |
| I 2. Title: | <u>ASTC/Programs</u> | | |

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

U.S. DEPARTMENT OF AGRICULTURE

OMB NO. 0578-0013

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COMPATIBLE USE AUTHORIZATION

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Prescribed Grazing - 0BCP



Landowner: Daniel Wiebe
Approximate Acres: 78.3
Legal Description: S NE 15-8-9, Adams Co

Date: 2/5/2021
Office: Hastings
Agency: USDA-NRCS
Assisted By: Krystal Bialas



Prepared with assistance from USDA-Natural Resources Conservation Service

Legend

-  Boundary
-  Grazing



CONSTRUCTION DATA

| | | |
|------------------------|-----------|------|
| Layout By: | | DATE |
| Construction Check By: | | |
| Contractor: | | |
| Constructed Cost: | | |
| Cost Share Agency: | USDA NRCS | |

DON COX & JEFF ANDERSON

WETLAND RESTORATION

ADAMS County, Nebraska

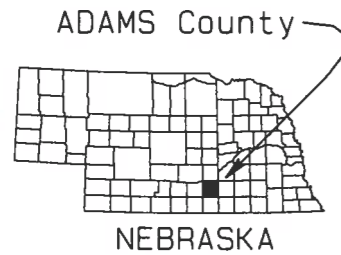
SPONSORED BY: WETLAND RESERVE PROGRAM

DESIGNED BY: NATURAL RESOURCES CONSERVATION SERVICE

NELSON, NEBRASKA

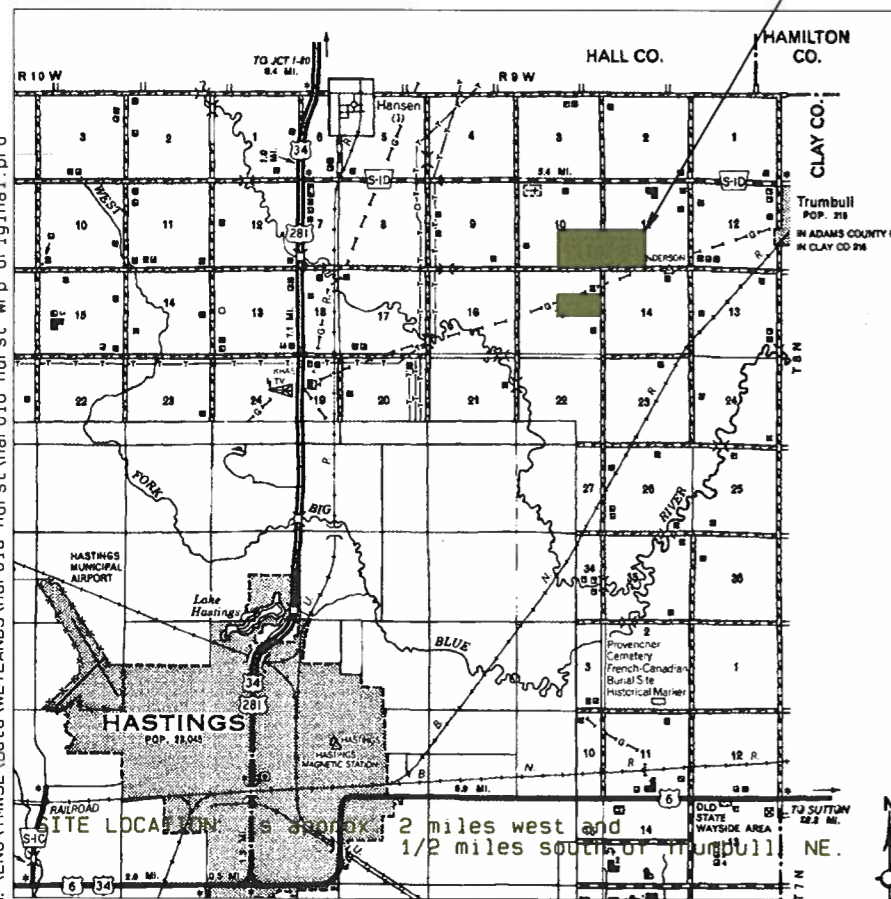


NRCS



PROJECT LOCATION

TABLE OF QUANTITIES



| ITEM | UNIT | QUANTITIES | AS-BUILT |
|--|------|------------|----------|
| Site Preparation and Structure Removal | AC | 0.5 | |
| Removal of Water | MG | NA | |
| Excavation* | | | |
| AREA 1 Hurst Excav 1 (2.3 Ac) | CY | 3,618 | |
| AREA 2 Hurst Excav 2 (3.0 Ac) | | 2,169 | |
| AREA 3 Hurst Berm Removal | | 843 | |
| AREA 4 Wetland Ren. (4.0 Ac) | | 7,130 | |
| AREA 5 Wetland Ren. (1.0 Ac) | | 912 | |
| TOTAL | | 14,672 | |
| Earth Fill* | | | |
| Pavelka Property Line | CY | 531 | |
| TOTAL | | 531 | |


SHEET INDEX

| SHEET NO. | SHEET TITLE |
|-----------|----------------------------------|
| 1 | COVER SHEET |
| 2 | DATA SHEET |
| 3 | PLAN VIEW COX/ANDERSON PROPERTY |
| 4 | PLAN VIEW WETLAND RENOVATION LLC |
| 5 | PLAN VIEW PAVELKA PROPERTY |
| 6 | TOPOGRAPHIC MAP OF BASIN |

MG = 1,000 Gal. of Water
 * Approximate quantities for BID PREP. ONLY
 Project to be paid on a LUMP SUM BASIS.

Design By: J.E. MYERS 5/07
 Checked By: J. ROBISON 5/07

SPECIFICATION AND DRAWINGS
 APPROVED FOR CONSTRUCTION

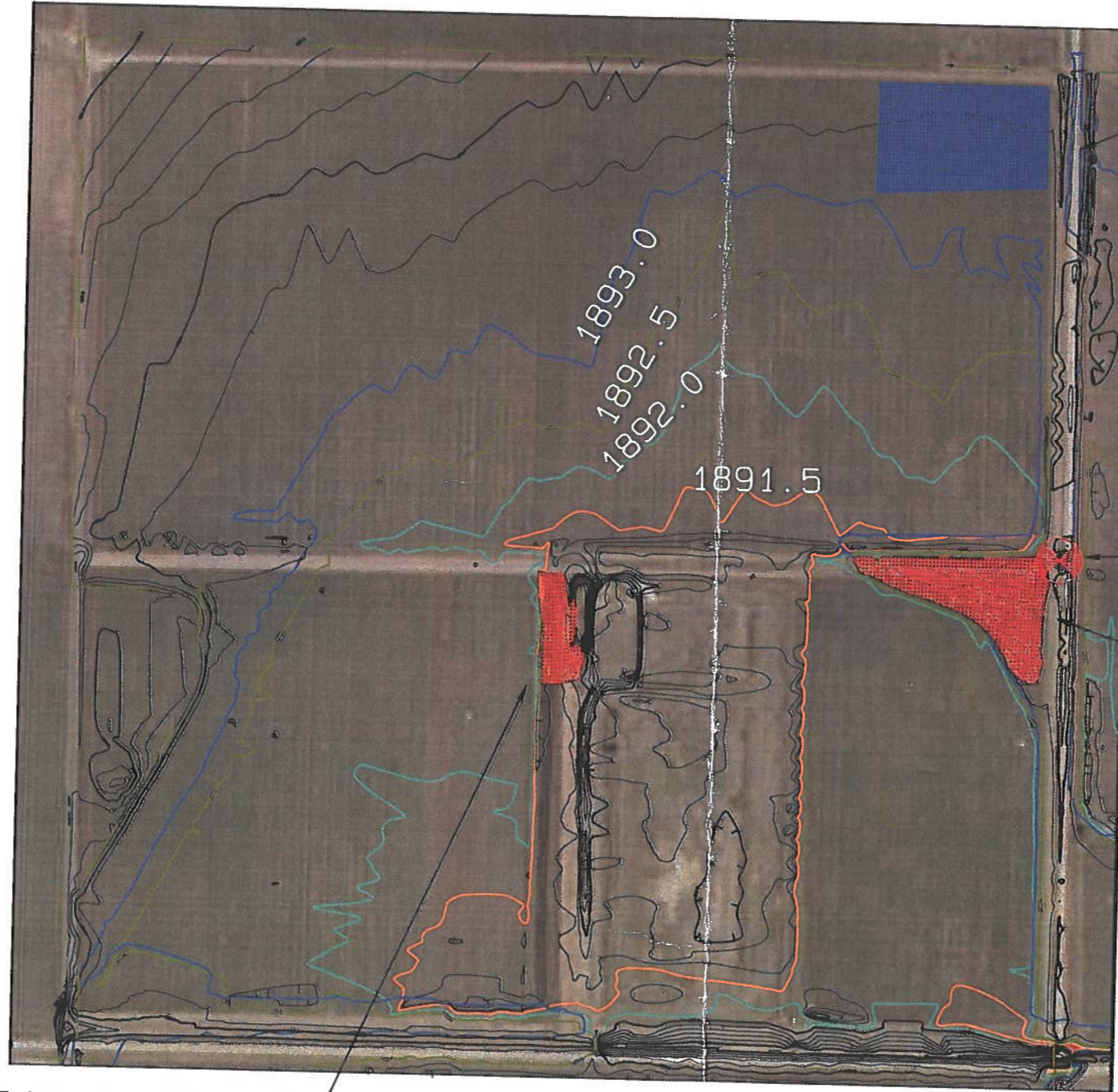
Signature: 
 APPROVED BY: T. HAAKENSTAD
 TITLE: SCE

THIS PROJECT IS JOB CLASS V

Section 11 T8North, R9West

SHEET NO. 1
 TOTAL SHEETS 6 Pages

WETLAND RENOVATIONS LLC PROPERTY



WASTE EXCAVATED MATERIAL
IN UPLAND



BM # 1 EL 1892.83
TOP OF CONCRETE CULVERT
NORTH SIDE OF DRIVEWAY

EXCAVATE UNWANTED WASTED
EXCAVATION MATERIAL LEFT BY
NRCS AND CONTRACTOR. FINISHED
GRADE IS ELEV. 1894.0

EXCAVATE TO ELEVATION 1890.0
TO JOIN TWO SEPERATE BODIES
OF WATER INTO ONE, AS PREVIOUSLY
PLANNED.

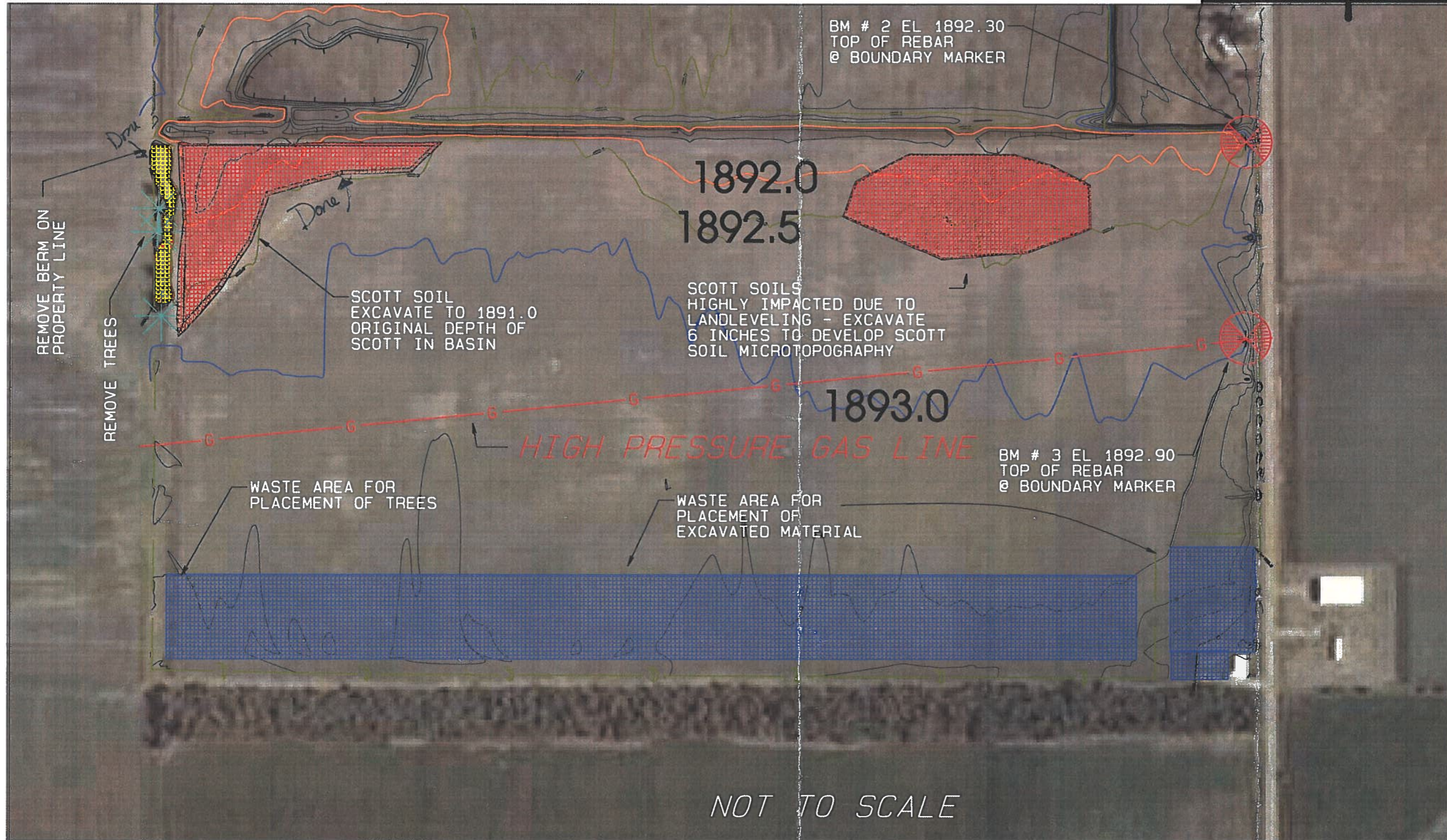
| | | | |
|----------|---------------|------|------|
| Designed | J. E. MYERS | Date | 5/07 |
| Drawn | J. E. MYERS | | 5/07 |
| Checked | J. ROBINSON | | 5/07 |
| Approved | T. HAAKENSTAD | | 5/07 |

PLAN VIEW
DON COX & JEFF ANDERSON
ADAMS County, Nebraska



File No.

Drawing No.

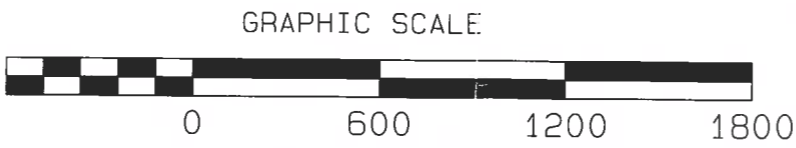
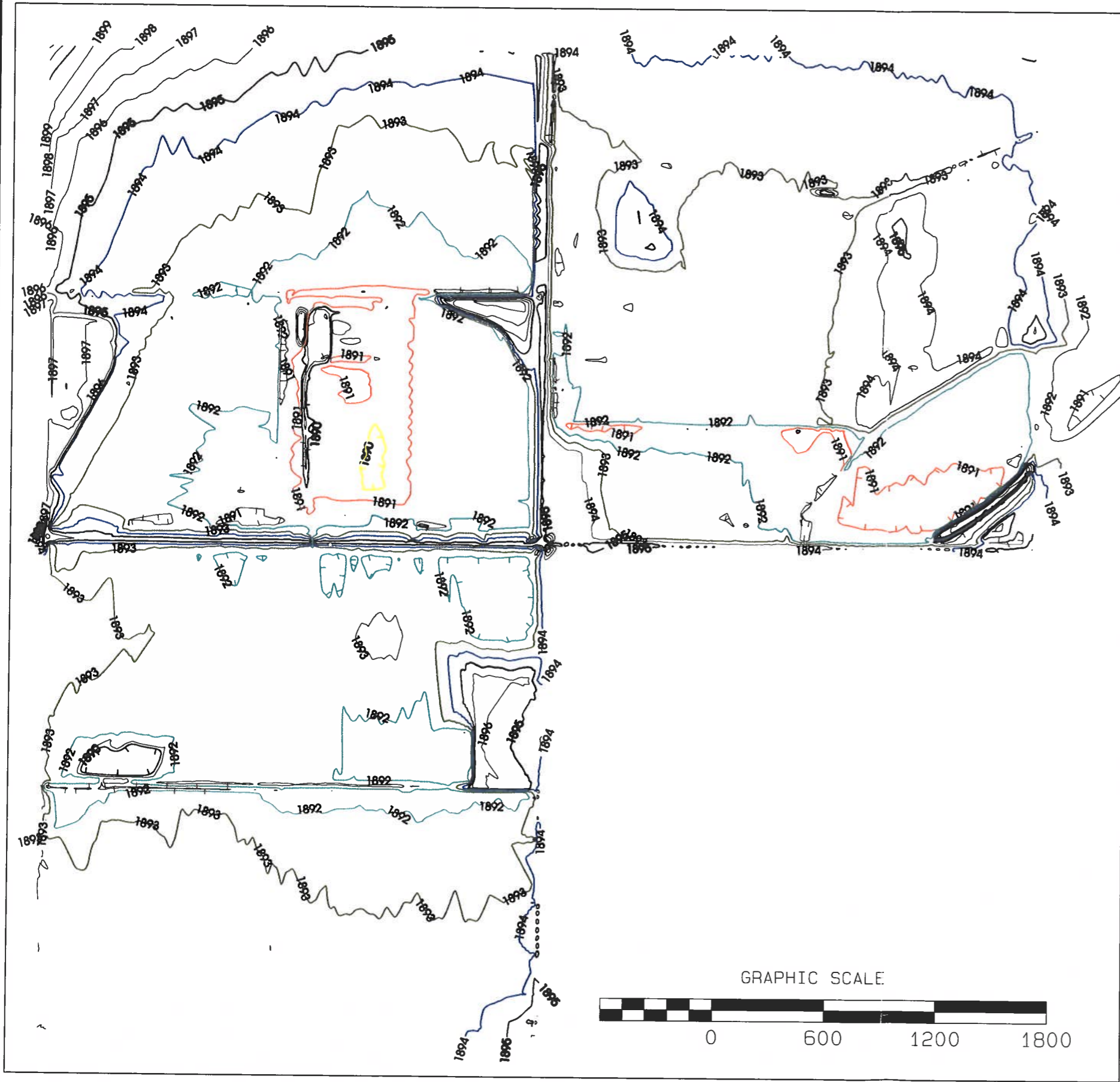


NOT TO SCALE

| | | | |
|----------|---------------|------|------|
| Designed | J. E. MYERS | Date | 5/07 |
| Drawn | J. E. MYERS | | 5/07 |
| Checked | J. ROBITSON | | 5/07 |
| Approved | T. HAAKENSTAD | | 5/07 |

AERIAL PHOTO VIEW
 DON COX & JEFF ANDERSON
 ADAMS County, Nebraska





TOPOGRAPHIC MAP OF WETLAND
 DON COX & JEFF ANDERSON
 ADAMS County, Nebraska

| | | | |
|----------|---------------|------|------|
| Designed | J. E. MYERS | Date | 7/07 |
| Drawn | J. E. MYERS | | |
| Checked | JACOB ROBISON | | |
| Approved | TIM HANKESTAD | | |

CONSTRUCTION NOTES

- The contractor will inspect the construction area for the presence of utility facilities both surface and subsurface, and will notify the Nebraska One Call System (<http://www.ne-diggers.com>) before construction activities begin. The contractor will use extra safety precautions when working near or around pipelines, power lines, power poles, underground cables, or other utility installations. DIGGERS HOTLINE: 1-800-331-5666
- The CONTRACTOR shall remove all signs of temporary construction facilities, such as work areas, stockpiles, and other vestiges of construction prior to final acceptance of work. The disturbed areas shall be graded and filled as specified. Any off-site damage attributable to the CONTRACTOR'S conduct, shall be repaired at no additional cost to the owner.
- Clearing areas, clearing and grubbing areas, and construction work limits are generally bounded by the slope stakes on the excavation areas. Exact location of the work limits will be staked by the NRCS before construction begins.
- Where excavated material is placed immediately in the waste disposal area's, certification for payment quantities shall include only one item.
- Disposal areas shall be stockpiled with a maximum pile height of 1 feet. The disposal area shall be shaped and smoothed to allow for grass seeding following construction. The area shall be free from small water puddles and graded to drain towards the wetland.
- The contractor shall be responsible for furnishing, placing, and maintaining signs, barricades, and danger signals deemed necessary by the Nebraska Dept. of Roads and/or the County Road Department.
- Fences within the construction work limits will be removed by contractor/others before construction begins.
- Borrow (sediment removal) area limits will be staked by the NRCS inspector at the time of construction. All finished borrow (sediment removal) slopes will be a minimum of 6:1.
- Excavation tolerances on all sediment removal and berm removal are to grade or -0.2 feet of elevation shown on drawings.
- Tree removal shall consist of removing trees and root ball and removing the tree and root ball to the area staked and marked as tree disposal area.

LAYOUT POINT DATA

| POINT NUMBER | NORTH | EAST | Elev. | Location |
|--------------|--------------|-------------|--------|-----------|
| 56 | 14, 772, 598 | 1, 829, 478 | 1894.0 | cox excav |
| 62 | 14, 772, 592 | 1, 829, 401 | 1894.0 | cox excav |
| 72 | 14, 772, 600 | 1, 829, 624 | 1894.0 | cox excav |
| 75 | 14, 722, 601 | 1, 829, 770 | 1894.0 | cox excav |
| 80 | 14, 722, 600 | 1, 829, 903 | 1894.0 | cox excav |
| 87 | 14, 722, 532 | 1, 829, 924 | 1894.7 | cox excav |
| 91 | 14, 722, 437 | 1, 829, 909 | 1895.0 | cox excav |
| 98 | 14, 722, 356 | 1, 829, 903 | 1895.0 | cox excav |
| 104 | 14, 722, 304 | 1, 829, 822 | 1894.2 | cox excav |
| 108 | 14, 722, 266 | 1, 829, 870 | 1894.5 | cox excav |
| 109 | 14, 722, 271 | 1, 829, 897 | 1894.6 | cox excav |
| 113 | 14, 722, 380 | 1, 829, 782 | 1894.0 | cox excav |
| 123 | 14, 722, 436 | 1, 829, 720 | 1894.0 | cox excav |
| 130 | 14, 722, 488 | 1, 829, 591 | 1894.0 | cox excav |
| 135 | 14, 722, 497 | 1, 829, 560 | 1894.0 | cox excav |
| 138 | 14, 722, 524 | 1, 829, 487 | 1894.0 | cox excav |
| 145 | 14, 722, 584 | 1, 829, 399 | 1894.0 | cox excav |
| 149 | 14, 722, 554 | 1, 829, 416 | 1894.0 | cox excav |

| POINT NUMBER | NORTH | EAST | Elev. | Location |
|--------------|--------------|-------------|--------|----------|
| 262 | 14, 769, 911 | 1, 827, 599 | 1891.6 | hurst1 |
| 277 | 14, 769, 913 | 1, 827, 834 | 1892.1 | |
| 286 | 14, 769, 916 | 1, 827, 996 | 1892.5 | |
| 298 | 14, 769, 844 | 1, 827, 924 | 1892.5 | |
| 304 | 14, 769, 838 | 1, 827, 757 | 1892.4 | |
| 315 | 14, 769, 788 | 1, 827, 581 | 1892.5 | |
| 333 | 14, 769, 564 | 1, 827, 468 | 1892.8 | |
| 336 | 14, 769, 674 | 1, 827, 539 | 1892.4 | |
| 337 | 14, 769, 446 | 1, 827, 362 | 1893.1 | |
| 349 | 14, 769, 654 | 1, 827, 365 | 1893.2 | |
| 351 | 14, 769, 555 | 1, 827, 360 | 1893.8 | |
| 358 | 14, 769, 913 | 1, 827, 364 | 1892.1 | |
| 360 | 14, 769, 791 | 1, 827, 367 | 1892.8 | |
| 151 | 14, 771, 759 | 1, 832, 568 | 1893.0 | |
| 154 | 14, 772, 330 | 1, 832, 572 | 1893.0 | |
| 155 | 14, 772, 326 | 1, 832, 592 | 1893.0 | |
| 157 | 14, 771, 761 | 1, 832, 590 | 1892.5 | |

| POINT NUMBER | NORTH | EAST | Elev. | Location |
|--------------|--------------|-------------|--------|-----------|
| 379 | 14, 769, 813 | 1, 829, 559 | 1892.1 | hurst2 |
| 380 | 14, 769, 707 | 1, 829, 562 | 1892.5 | hurst2 |
| 381 | 14, 769, 619 | 1, 829, 409 | 1892.5 | hurst2 |
| 390 | 14, 769, 633 | 1, 829, 205 | 1892.8 | hurst2 |
| 401 | 14, 769, 737 | 1, 828, 964 | 1892.5 | hurst2 |
| 416 | 14, 769, 821 | 1, 828, 994 | 1892.1 | hurst2 |
| 418 | 14, 769, 887 | 1, 829, 125 | 1891.7 | hurst2 |
| 427 | 14, 769, 886 | 1, 829, 377 | 1891.7 | hurst2 |
| 539 | 14, 469, 539 | 1, 827, 345 | 1892.0 | hurstberm |
| 542 | 14, 469, 906 | 1, 827, 340 | 1893.0 | hurstberm |
| 548 | 14, 469, 860 | 1, 827, 345 | 1893.1 | hurstberm |
| 549 | 14, 469, 793 | 1, 827, 357 | 1893.0 | hurstberm |
| 552 | 14, 469, 828 | 1, 827, 341 | 1893.0 | hurstberm |
| 563 | 14, 469, 675 | 1, 827, 349 | 1892.6 | hurstberm |
| 566 | 14, 469, 646 | 1, 827, 340 | 1892.9 | hurstberm |
| 594 | 14, 469, 538 | 1, 827, 306 | 1893.1 | hurstberm |
| 603 | 14, 469, 649 | 1, 827, 309 | 1892.9 | hurstberm |
| 607 | 14, 469, 676 | 1, 827, 325 | 1893.0 | hurstberm |
| 614 | 14, 469, 736 | 1, 827, 325 | 1892.8 | hurstberm |
| 625 | 14, 469, 763 | 1, 827, 334 | 1892.6 | hurstberm |
| 629 | 14, 469, 859 | 1, 827, 297 | 1893.0 | hurstberm |
| 639 | 14, 469, 906 | 1, 827, 298 | 1893.3 | hurstberm |

| POINT NUMBER | NORTH | EAST | Elev. | Location |
|--------------|--------------|-------------|--------|-----------|
| 667 | 14, 772, 249 | 1, 828, 670 | 1890.0 | cox blind |
| 669 | 14, 772, 235 | 1, 828, 623 | 1891.0 | cox blind |
| 673 | 14, 772, 235 | 1, 828, 569 | 1890.9 | cox blind |
| 681 | 14, 772, 337 | 1, 828, 570 | 1890.7 | cox blind |
| 688 | 14, 772, 534 | 1, 828, 555 | 1891.9 | cox blind |
| 691 | 14, 772, 486 | 1, 828, 557 | 1892.0 | cox blind |
| 697 | 14, 772, 431 | 1, 828, 563 | 1891.5 | cox blind |
| 702 | 14, 772, 399 | 1, 828, 569 | 1890.7 | cox blind |
| 704 | 14, 772, 531 | 1, 828, 627 | 1891.5 | cox blind |
| 713 | 14, 772, 441 | 1, 828, 660 | 1894.6 | cox blind |
| 716 | 14, 772, 472 | 1, 828, 655 | 1894.5 | cox blind |
| 717 | 14, 772, 445 | 1, 828, 641 | 1891.5 | cox blind |
| 729 | 14, 772, 373 | 1, 828, 660 | 1894.5 | cox blind |
| 732 | 14, 772, 311 | 1, 828, 684 | 1890.2 | cox blind |
| 734 | 14, 772, 339 | 1, 828, 672 | 1893.8 | cox blind |

CONSTRUCTION SPECIFICATIONS

| Nebraska Construction and Materials Specifications | |
|--|---|
| NE- Series. Check the ones that apply | |
| <input checked="" type="checkbox"/> | 1 Site Preparation & Structure Removal |
| <input checked="" type="checkbox"/> | 6 Seeding and Mulching for Protective Cover |
| <input checked="" type="checkbox"/> | 8 Site Mobilization and Demobilization |
| <input type="checkbox"/> | 10 Water Applied |
| <input type="checkbox"/> | 11 Removal of Water |
| <input checked="" type="checkbox"/> | 21 Excavation |
| <input checked="" type="checkbox"/> | 23 Earthfill |
| <input type="checkbox"/> | 24 Drainfill |
| <input type="checkbox"/> | 32 Concrete for Minor Structures |
| <input type="checkbox"/> | 51 Corrugated Metal Pipe Structures |
| <input type="checkbox"/> | 81 Metal Fabrication and Installation |
| <input type="checkbox"/> | 83 Timber Fabrication and Installation |
| <input type="checkbox"/> | 92 Fencing |
| <input type="checkbox"/> | 208 Water Control Valves |
| <input type="checkbox"/> | 214 Cathodic Protection |
| <input type="checkbox"/> | 220 Plastic Pipe Conduits |

EARTHWORK QUANTITIES COMPUTATION METHOD

- MOPOND, Ver. 1.0
- TERRAMODEL, Ver. 10.40
- OHIO
- MANUALLY PLOTTED, DEA
- OTHER: _____

HYDROLOGIC DATA

| | |
|--------------------------------|-------|
| DRAINAGE AREA, Acres | 2219 |
| WATERSHED SLOPE, % | 0.5 |
| WATERSHED LENGTH, Feet | 12500 |
| RCN | 77 |
| TIME OF CONCENTRATION | 6.19 |
| 10yr-24hr Storm Runoff (ac-ft) | 364.3 |
| 25yr-24hr Storm Runoff (ac-ft) | 469.7 |

PRACTICE STANDARDS

| | |
|-------------------------------------|---------------------------------|
| <input type="checkbox"/> | 356 Dike |
| <input type="checkbox"/> | 362 Diversion |
| <input type="checkbox"/> | 378 Pond |
| <input checked="" type="checkbox"/> | 587 Structure for Water Control |
| <input type="checkbox"/> | 657 Wetland Restoration |
| <input type="checkbox"/> | 658 Wetland Creation |
| <input type="checkbox"/> | 659 Wetland Enhancement |
| <input type="checkbox"/> | Other: _____ |

| Date | 5/07 | 5/07 | 5/07 | 5/07 |
|----------|------------|------------|-------------|---------------|
| Designed | J.E. MYERS | J.E. MYERS | J. ROBINSON | T. HAAKENSTAD |
| Drawn | | | | |
| Checked | | | | |
| Approved | | | | |

DATA SHEET
DON COX & JEFF ANDERSON
 ADAMS County, Nebraska



Conservation Plan

Frank Hill
PO Box 85
Trumbull, NE 68980-0085

Robert Hill
471 Rd 323
Trumbull, NE 68980

Wildlife

Tract: 6692

USE EXCLUSION

Livestock will be excluded from all land in WRP in perpetuity unless an approved compatible use authorization is in effect.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| W1 | 74.4 ac. | 4 | 2004 | | |
| Total: | 74.4 ac. | | | | |

FORAGE HARVEST MANAGEMENT

Forage can not be harvested on Wetland Reserve Program lands without a signed compatible use authorization from NRCS.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| W1 | 74.4 ac. | 4 | 2004 | | |
| Total: | 74.4 ac. | | | | |

STRUCTURE FOR WATER CONTROL

Install a structure to control direction, rate and/or level of water in the system. Culverts will be installed at locations designated on plans according to specifications obtained prior to any work being completed. Other culverts as designated on plans will be removed and disposed of as directed in plans.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| W1 | 6.0 no. | 10 | 2004 | | |
| Total: | 6.0 no. | | | | |

PEST MANAGEMENT

Weeds and other pests that inhibit stand establishment will be controlled. Noxious weeds must be controlled according to State Noxious Weed Law. Refer to Nebraska Conservation Planning Sheet 19 (WETLAND RESERVE PROGRAM COVER MAINTENANCE REQUIREMENTS/OPTIONS) for requirements/options.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| W1 | 74.4 ac. | 4 | 2004 | | |
| Total: | 74.4 ac. | | | | |

WETLAND WILDLIFE HABITAT MANAGEMENT

Wildlife habitat will be established or maintained to benefit waterfowl and other wildlife according to WRP cover management requirements. Refer to WRP restoration and management plan.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| W1 | 42.2 ac. | 4 | 2004 | | |
| Total: | 42.2 ac. | | | | |

UPLAND WILDLIFE HABITAT MANAGEMENT

Wildlife habitat will be maintained to benefit desired types of wildlife according to WRP cover management requirements. Refer to WRP restoration and management plan.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| W1 | 32.2 ac. | 4 | 2004 | | |
| Total: | 32.2 ac. | | | | |

WETLAND RESTORATION

Wetlands will be restored (approximately where shown on the plan map). Wetland Restoration activities will be completed by NRCS and/or its agents. Specifications will be obtained from NRCS prior to any restoration activities.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| W1 | 42.2 ac. | 10 | 2004 | | |
| Total: | 42.2 ac. | | | | |

PRESCRIBED GRAZING

Livestock grazing is not allowed on Wetland Reserve Program lands without a signed compatible use authorization from NRCS.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|------|
| W1 | 74.4 ac. | 4 | 2004 | | |
| Total: | 74.4 ac. | | | | |

CERTIFICATION OF PARTICIPANT

Frank Hill Date

Robert Hill Date

CERTIFICATION OF:

Resource Conservationist

Keri Franzen Date

CONSERVATION DISTRICT

Upper Big Blue NRD Date

NONDISCRIMINATION STATEMENT

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

CONSERVATION PLAN

Client: Saathoff, Lee

Saathoff Lee

Assisted By: Ken Franzen

| LAND UNITS | | PLANNED | | | APPLIED | | PLANNED CONSERVATION TREATMENT |
|------------|-------|----------|-------|------|---------|---------|---|
| TRACT | FIELD | AMOUNT | MONTH | YEAR | AMOUNT | DATE | |
| 6692 | W1 | 74.4Ac | | | | | Wetland Reserve Program This field is enrolled in the Wetland Reserve Program. Wetlands and associated areas will have hydrologic and vegetative characteristics restored, created and/or enhanced using the following components. ALL PRACTICES WILL BE COMPLETED ACCORDING TO NRCS PLANS AND SPECIFICATIONS. |
| 6692 | W1 | 5.4ac | 05 | 2000 | 5.5Ac | 4/29/01 | CRITICAL AREA PLANTING Area disturbed by construction will be stabilized using trees, shrubs, and/or grasses. Seedlings will be protected from weed competition and noxious weeds will be controlled. Planting specifications will be obtained before planting. Only the dike will be seeded. |
| 6692 | W1 | 7500.0ft | 04 | 2000 | | | DIKE A dike will be built and/or maintained (approximately where shown on the plan map) to protect land from overflow flood water. The dike will be built according to the specifications to be obtained before construction. Noxious weeds will be controlled and rodent and gully damage will be repaired. Inspection will be made after each significant rainfall to check for damage. The dike will be maintained according to operation and maintenance guidelines provided with design specifications. |
| 6692 | W1 | 7680.0ft | 06 | 2000 | | | FENCE A fence will be installed and/or maintained (approximately where shown on the plan map). Fence will be built according to specifications obtained before installing the fence. |
| 6692 | W1 | 74.4ac | 11 | 1999 | | | PEST MANAGEMENT Manage infestations of weeds, insects and disease to reduce adverse effects on plant growth, crop production and material resources. Control noxious weeds. |
| 6692 | W1 | 2.0no | 04 | 2000 | | | STRUCTURE FOR WATER CONTROL Install a structure to control direction, rate and/or level of water in the system. |

HEL Fields marked as HEL are highly erodible fields.

HEL* Reapplication of this conservation practice on this highly erodible field is required for compliance with the Food Security Act of 1985. See the Conservation Plan for details about first time application.

CONSERVATION PLAN

Client: Saathoff, Lee
 Assisted By: Ken Franzen

Saathoff Lee

| LAND UNITS | | PLANNED | | | APPLIED | | PLANNED CONSERVATION TREATMENT |
|------------|-------|---------|-------|------|---------|------|--|
| TRACT | FIELD | AMOUNT | MONTH | YEAR | AMOUNT | DATE | |
| 6692 | W1 | 74.4ac | 11 | 1999 | | | USE EXCLUSION Livestock will be excluded from the field unless allowed by agreed grazing management plan. |
| 6692 | W1 | 74.4ac | 04 | 2000 | | | WETLAND RESTORATION Wetlands will be developed/restored (approximately where shown on the plan map). Restoration/development specifications will be obtained prior to any development/restoration activities. |
| 6692 | W1 | 74.4ac | 11 | 1999 | | | WETLAND WILDLIFE HABITAT MANAGEMENT Retain, create, or manage wetland habitat for water fowl, furbearers, or other wildlife. |

NONDISCRIMINATION STATEMENT

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice or TDD). USDA is an equal opportunity provider and employer.

 HEL Fields marked as HEL are highly erodible fields.

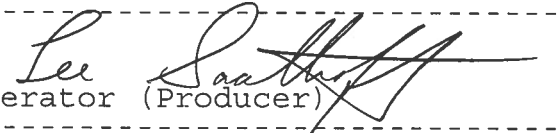

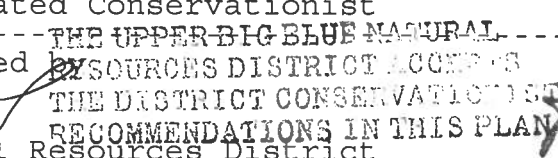
HEL* Reapplication of this conservation practice on this highly erodible field is required for compliance with the Food Security Act of 1985. See the Conservation Plan for details about first time application.

CONSERVATION PLAN APPROVAL

Client: Saathoff, Lee
Assisted By: Ken Franzen

Saathoff Lee

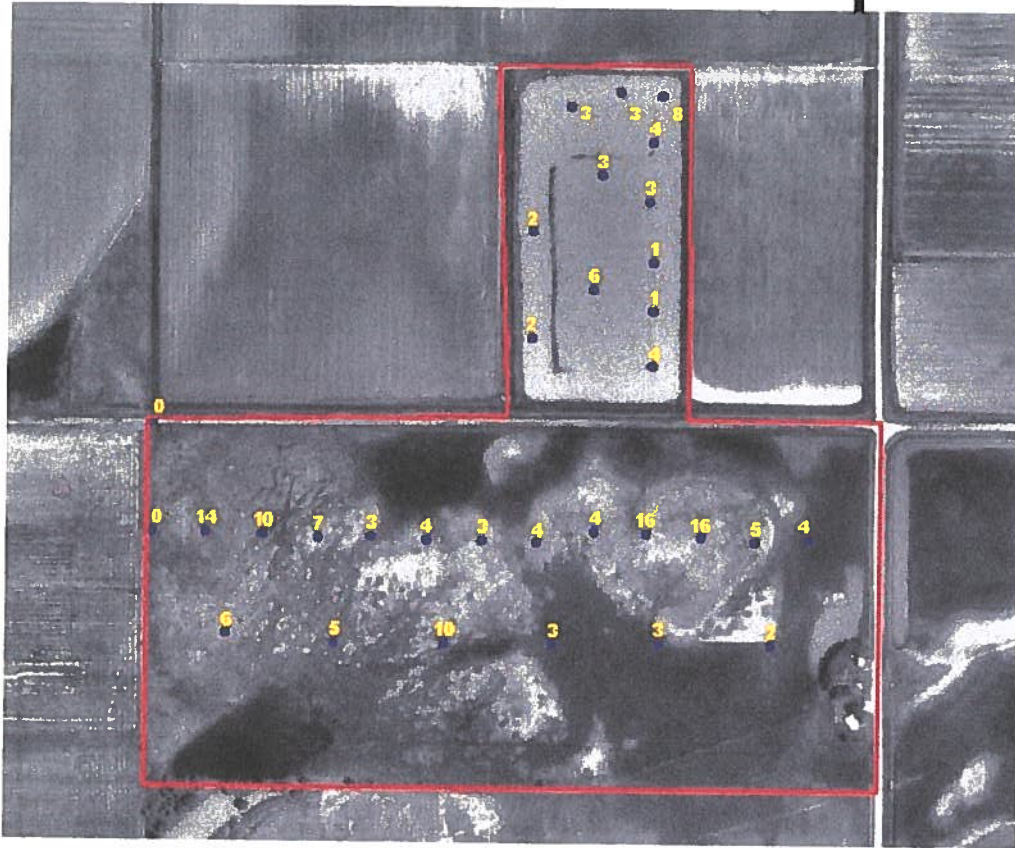
| Unit | Tract | ACRES | LAND UNIT NAME | OWNER NAME |
|----------|-------|------------|----------------|-----------------------------------|
| Saathoff | 6692 | 80.0 | 8-9-15 | Saathoff, Lee Saathoff, Marian |
| TOTAL | | 80.0 ACRES | | |

| | |
|--|---------------|
|  Cooperator (Producer) | Date 10-14-99 |
| The above Conservation Plan meets the requirements of the Field Office Technical Guide. | |
|  Designated Conservationist | Date 10-13-99 |
| Approved by  Natural Resources District | Date 10/21/99 |

HEL Fields marked as HEL are highly erodible fields.

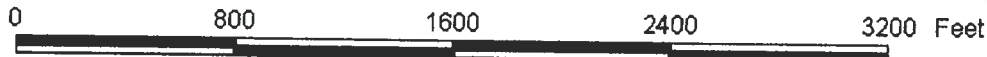
HEL* Reapplication of this conservation practice on this highly erodible field is required for compliance with the Food Security Act of 1985. See the Conservation Plan for details about first time application.

Trumbull Basin Depth to Clay



Legend

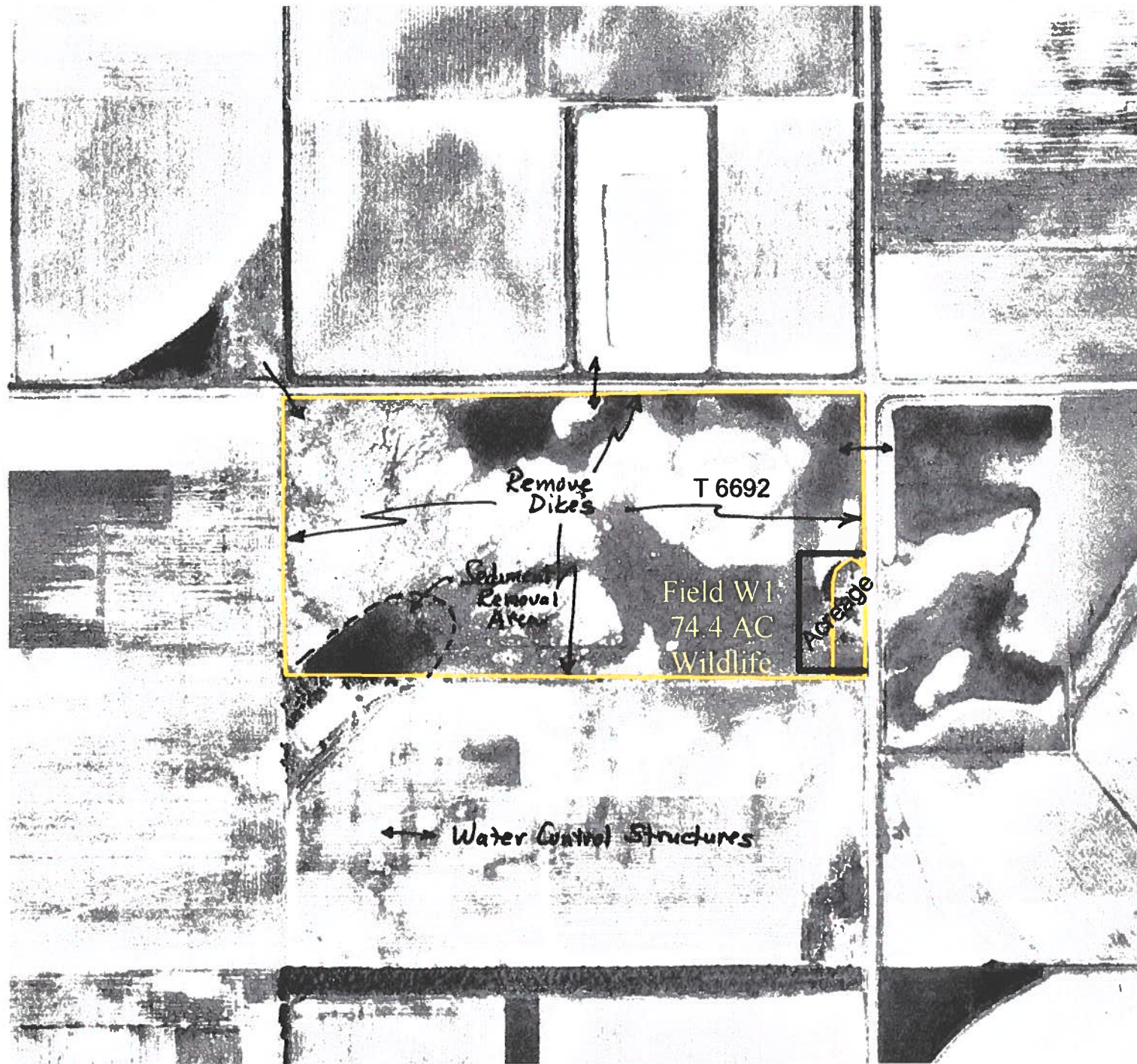
- Project Boundary
- Depth to Clay



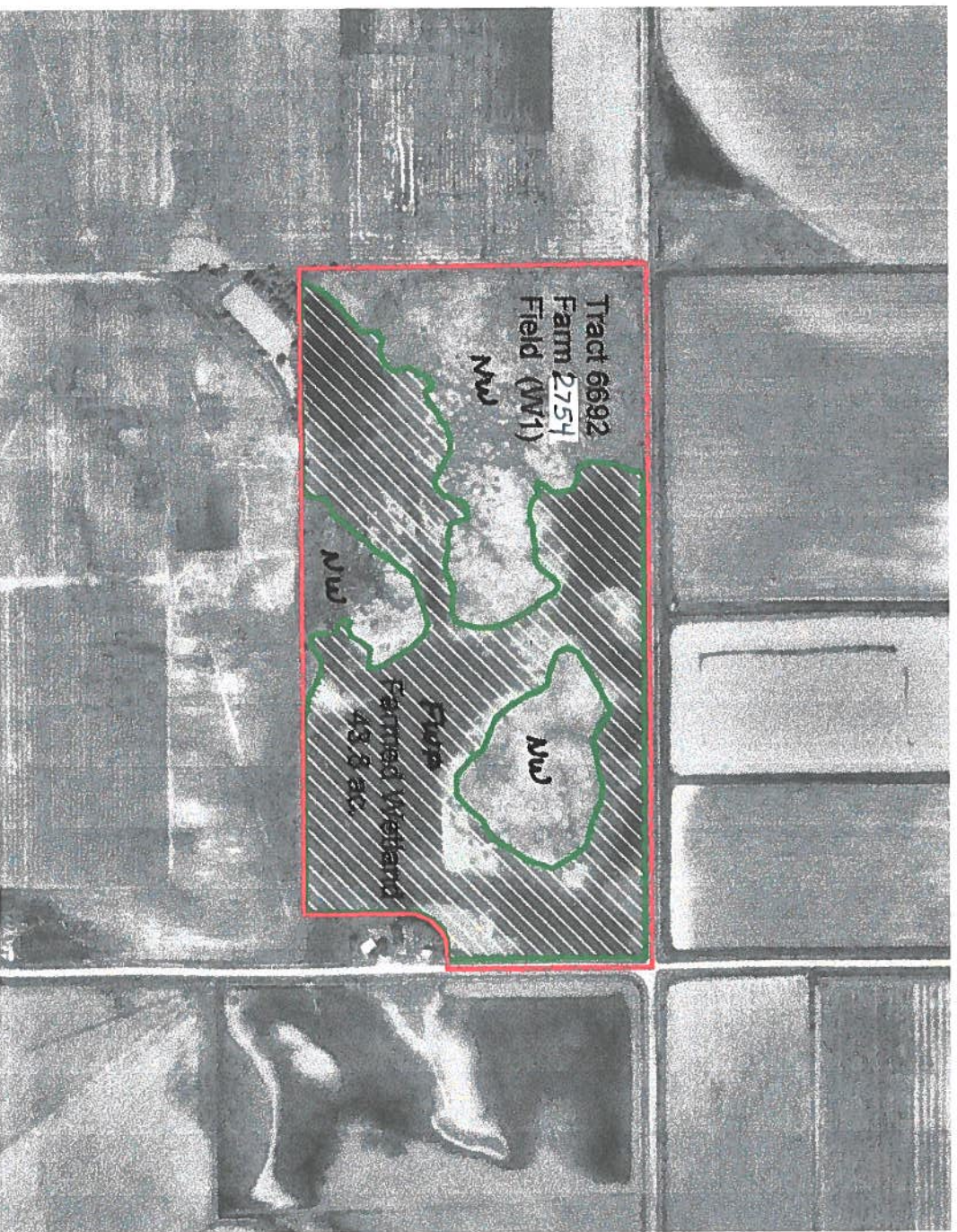
Conservation Plan Map

Frank Hill
Robert Hill
Upper Big Blue NRD
76 Acres
Date: 04/27/2004

Hastings
USDA_NRCS
Ken Franzen
N1/2NE1/4 15-8-9

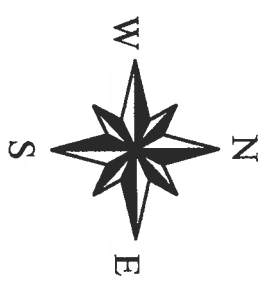


Lee Sathoff Certified Wetland Determination



Legend

-  Tract Boundary
-  Farmed Wetland

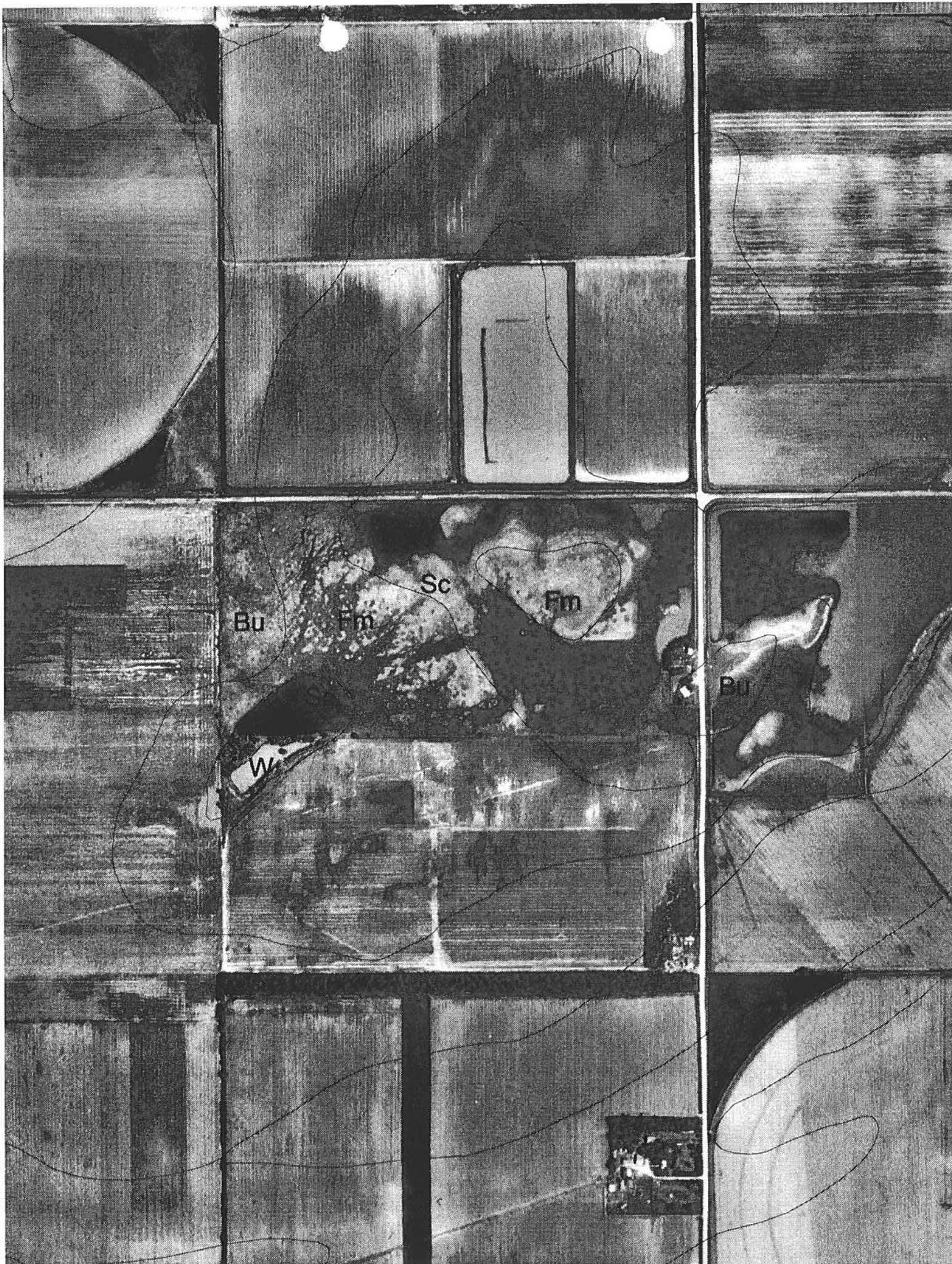


Location: N1/2 of NE 1/4 of
 Section 15, T. 8 N., R. 9 W.
 Adams County Nebraska

Source: Photo from Nebraska Natural Resources
 Commission 1993 DOQ. NRCS 7/8/98 GPS Data

Scale = 1:7920 or 8" / mile

By K. Franzen & R. Zink



Bu

Fm

Sc

Fm

Bu

W

HIGHLY ERODIBLE LAND AND WETLAND
CONSERVATION DETERMINATION

Name: Saathoff, Lee
County: ADAMS

Tract: 6692
Request Date: 04/09/98 FSA Farm No.:

Unit: saatlee

Wetlands Explanation

Wetland Label Explanatory Comments

NW Non-wetland;
Description: An area that does not meet wetland criteria under natural conditions or wetlands that were converted prior to 12/23/85, not cropped prior to 12/23/85, does not meet wetland criteria, and has not been abandoned; Authorized cropping: No Restrictions; Authorized Maintenance: No restrictions unless the manipulation would convert adjacent wetland labels.

* Natural Resources Conservation Service
** Corps of Engineers

Remarks
There is no cropland on this tract; therefore no HEL determination has been made.

I certify that the above determinations are correct and were conducted in accordance with policies and procedures contained in the National Food Security Act Manual.

Signature Designated Conservationist:

Date

LITTLE BLUE NRD

Jul 09, 1998

All USDA programs and services are available without regard to race, color, national origin, religion, sex, age, marital status, or handicap.

ADAMS COUNTY

| SYMBOL | NAME AND DESCRIPTION | HEL | HYDRIC |
|--------|--|------|-------------------|
| 2An | Anselmo fine sandy loam terr., 0-1% slopes | NHEL | NO |
| 2AnA | Anselmo fine sandy loam terr., 1-3% slopes | NHEL | NO |
| 2Ap | Anselmo loam terr., 0-1% slopes | NHEL | NO |
| Bu | Butler silt loam | NHEL | YES |
| By | Breaks-Alluvial land complex | PHEL | NO |
| C6C | Coly silt loam, 7-11% slopes | HEL | NO |
| C6D | Coly silt loam, 11-31% slopes | HEL | NO |
| Ce | Crete silt loam | NHEL | YES |
| Ca | Cass loam | NHEL | NO |
| 2Ca | Cass loam, occasionally flooded | NHEL | NO |
| Cs | Cass fine sandy loam | NHEL | NO |
| Fm | Fillaore silt loam | NHEL | YES |
| Ge8E | Gearly silty clay loam, 3-7% slopes eroded | PHEL | NO |
| GeCE | Gearly silty clay loam, 7-11% slopes eroded | PHEL | NO |
| G6B | Gearly silt loam, 3-7% slopes | PHEL | NO |
| G6C | Gearly silt loam, 7-11% slopes | PHEL | NO |
| G6E | Gearly silt loam, 11-31% slopes | HEL | NO |
| 4a | Hall silt loam | NHEL | YES |
| 2H6 | Hobbs silt loam, occasionally flooded | NHEL | YES |
| Hd | Hord silt loam, 0-1% slopes | NHEL | NO |
| 2Hd | Hord silt loam terr., 0-1% slopes | NHEL | NO |
| 2HdA | Hord silt loam, terr., 1-3% slopes | NHEL | NO |
| Hg | Holder silt loam, 0-1% slopes | NHEL | NO |
| HgA | Holder silt loam, 1-3% slopes | NHEL | NO |
| HgB | Holder silt loam, 3-7% slopes | PHEL | NO |
| Hg8E | Holder silt loam, 3-7% slopes, eroded | PHEL | NO |
| Hg8E | Holder silty clay loam, 3-7% slopes severely eroded | PHEL | NO |
| HgC | Holder silt loam, 7-11% slopes | PHEL | NO |
| HgCC | Holder silt loam, 7-11% slopes severely eroded | PHEL | NO |
| H6B | Hersh fine sandy loam, 3-7% slopes | PHEL | NO |
| HR | Hersh Kenesaw Complex, undulating | NHEL | NO |
| Hs | Hastings silt loam, 0-1% slopes | NHEL | NO |
| HsA | Hastings silt loam, 1-3% slopes | NHEL | NO |
| 2Hs | Hastings silt loam, thin solum variant | NHEL | NO |
| Hv | Hobbs silt loam | NHEL | NO |
| Ig | Inavale loamy fine sand | HEL | NO |
| In | Inavale fine sandy loam | NHEL | NO |
| Ks | Kenesaw silt loam, 0-1% slopes | NHEL | YES |
| KsA | Kenesaw silt loam, 1-3% slopes | NHEL | YES |
| KsB | Kenesaw silt loam, 3-7% slopes | PHEL | NO |
| 2Ks | Kenesaw silt loam, terrace, 0-1% slopes | NHEL | NO |
| LA | Lex and Alda soils | NHEL | NO |
| M | Marsh | NHEL | YES |
| Ms | Meadin sandy loam | HEL | NO |
| Pt | Platte loam | HEL | YES |
| Rw | Riverwash | PHEL | NO YES |
| RB | Rough broken land, loess | HEL | NO |
| Ru | Rusco silt loam | NHEL | YES |
| S | Spoil banks | HEL | NO |
| Sc | Scott silt loam | NHEL | YES |
| Sy | Silty alluvial land | NHEL | YES |
| T6B | Thurman-Valentine loamy fine sands, undulating | HEL | NO |
| V6C | Valentine loamy fine sand, rolling | HEL | NO |

HYDRIC SOIL INTERPRETATIONS Page-8
Statewide

ADAMS COUNTY, NEBRASKA
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

| Map Symbol Mapunit Name | Component(C)/ Inclusion(I) | Hydric | Local Landform | Hydric Soils Criteria | | | |
|---|------------------------------------|-----------|-------------------|----------------------------|---------------------------------|-------------------------------|------------------------------|
| | | | | Hydric Criteria Code | Meets Saturation Criteria | Meets Flooding Criteria | Meets Ponding Criteria |
| S: SPOIL BANKS----- | USTORTHENT S (C) | Unranked | | | | | |
| Sc: SCOTT SILT LOAM----- | SCOTT (C) | Yes | Playa | 2B3,3 | YES | NO | YES |
| Sy: SILTY ALLUVIAL LAND--- | HOBBS (C) WT AT 0-1 FOOT (I) | No Yes | Swale | 2B3 | YES | NO | NO |
| TxB: THURMAN-VALENTINE LOAMY FINE SANDS, UNDULATING----- | THURMAN (C) VALENTINE (C) | No No | | | | | |
| VbC: VALENTINE LOAMY FINE SAND, ROLLING----- | VALENTINE (C) | No | | | | | |
| zp: GRAVEL PITS AND QUARRIES----- | PITS (C) | Unranked | | | | | |
| zw: WATER, UNDIFFERENTIATED (STREAMS AND PONDS)--- | WATER (C) | Unranked | | | | | |

Footnote : There may be small areas of included soils or miscellaneous areas that are significant to use and management of the soil; yet are too small to delineate on the soil map at the map's original scale. These may be designated as spot symbols and are defined in the published Soil Survey Report or the USDA-NRCS Technical Guide, Part II.

ADAMS COUNTY, NEBRASKA
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

| Map Symbol Mapunit Name | Component(C)/ Inclusion(I) | Hydric | Local Landform | Hydric Soils Criteria | | | |
|---|-------------------------------|--------|-------------------|----------------------------|---------------------------------|-------------------------------|------------------------------|
| | | | | Hydric Criteria Code | Meets Saturation Criteria | Meets Flooding Criteria | Meets Ponding Criteria |
| Cbd: COLY SILT LOAM, 11 TO 31 PERCENT SLOPES----- | COLY (C) | No | | | | | |
| Ce: CRETE SILT LOAM----- | CRETE (C) | No | | | | | |
| | FILLMORE (I) | Yes | Playa | 2A | YES | NO | NO |
| Cm: CASS LOAM----- | CASS (C) | No | | | | | |
| Cs: CASS FINE SANDY LOAM-- | CASS (C) | No | | | | | |
| Fm: FILLMORE SILT LOAM---- | FILLMORE (C) | Yes | Playa | 2A | YES | NO | NO |
| | SCOTT (I) | Yes | Playa | 2B3,3 | YES | NO | YES |
| GeB2: GEARY SILTY CLAY LOAM, 3 TO 7 PERCENT SLOPES, ERODED----- | GEARY VARIANT (C) | No | | | | | |
| GeC2: GEARY SILTY CLAY LOAM, 7 TO 11 PERCENT SLOPES, ERODED----- | GEARY VARIANT (C) | No | | | | | |

HYDRIC SOIL INTERPRETATIONS Page-2
Statewide

ADAMS COUNTY, NEBRASKA
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

| Map Symbol Mapunit Name | Component(C)/ Inclusion(I) | Hydric | Local Landform | Hydric Soils Criteria | | | |
|---|-------------------------------|-----------|-------------------|----------------------------|---------------------------------|-------------------------------|------------------------------|
| | | | | Hydric Criteria Code | Meets Saturation Criteria | Meets Flooding Criteria | Meets Ponding Criteria |
| 2Hs: HASTINGS SILT LOAM, THIN SOLUM VARIANT----- | HASTINGS VARIANT (C) | No | | | | | |
| 2Ks: KENESAW SILT LOAM, TERRACE, 0 TO 1 PERCENT SLOPES----- | COZAD (C) | No | | | | | |
| 2AnA: ANSELMO FINE SANDY LOAM, TERRACE, 1 TO 3 PERCENT SLOPES----- | ANSELMO (C) | No | | | | | |
| 2HdA: HORD SILT LOAM, TERRACE, 1 TO 3 PERCENT SLOPES----- | HORD (C) | No | | | | | |
| Bu: BUTLER SILT LOAM----- | BUTLER (C) FILLMORE (I) | No Yes | Playa | 2A | YES | NO | NO |
| By: BREAKS-ALLUVIAL LAND COMPLEX----- | ULY (C) HOBBS (C) | No No | | | | | |
| CbC: COLY SILT LOAM, 7 TO 11 PERCENT SLOPES----- | COLY (C) | No | | | | | |

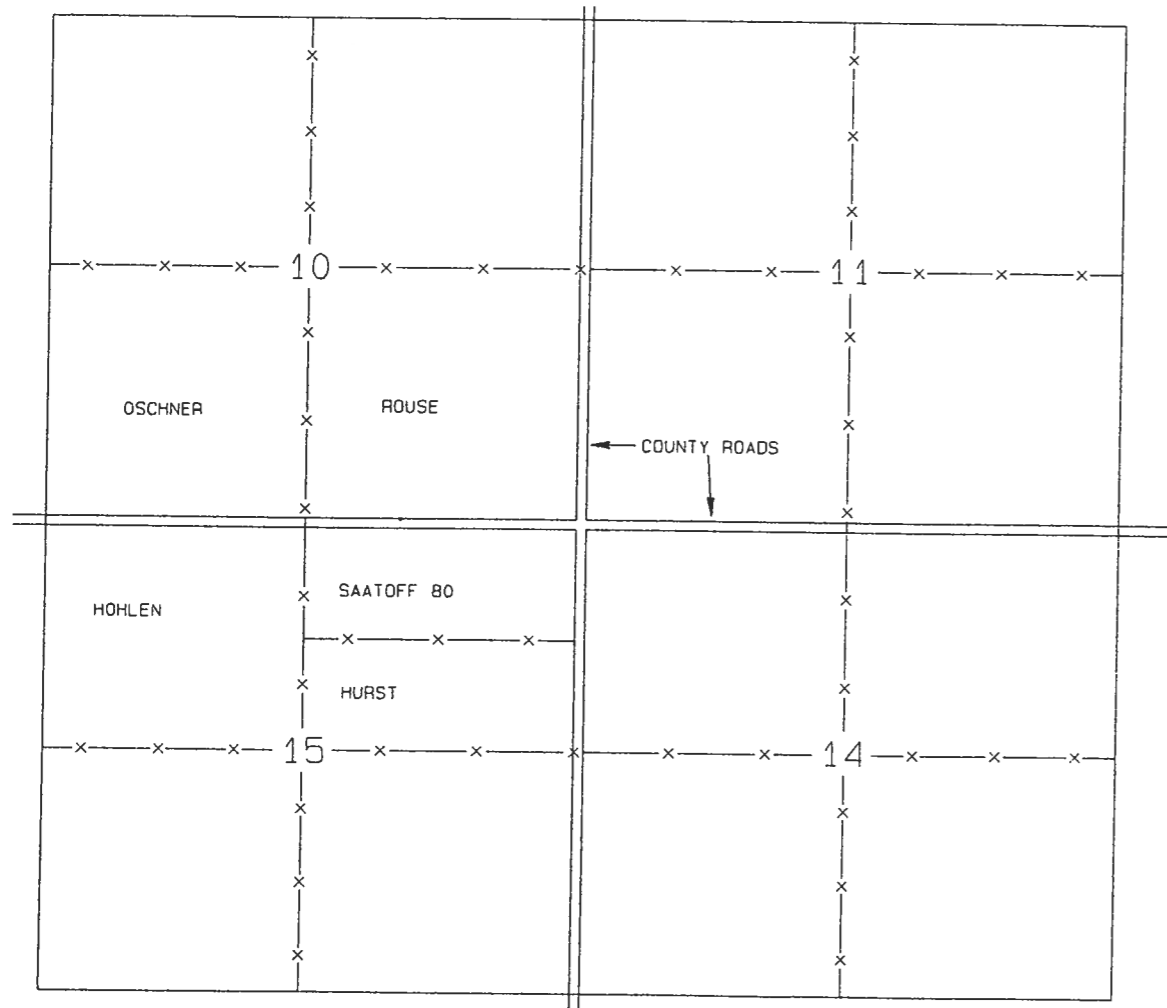
COPY FOR NRCS CASE FILE

TRUMBULL BASIN WRP RESTORATION PROJECT

N1/2NE1/4 SECTION 15 T8N - R9W

ADAMS COUNTY, NE.

SPONSORED BY: RAINWATER BASIN JOINT VENTURE PARTNERSHIP
DESIGNED BY: NATURAL RESOURCES CONSERVATION SERVICE
TEAM LBFO, NELSON NEBRASKA



- 1 COVER SHEET
- 2 DATA SHEET
- 3 PLAN VIEW
- 3A PLAN VIEW
- 4 X-SECT. CULVERT & DIKE SECTION
- 5 X-SECTION OF CULVERTS
- 6 STOP LOG RISER W/DETAILS
- 7 METAL PIPE REQ./COUPLING BANDS
- 8 METAL PIPE REQ./COUPLING BANDS
- 9 CONCRETE SLAB FOR PIPE INLET
- 10 FENCE REQUIREMENTS
- 10A DEPTHS TO CLAY LAYER

Project is located approximately 2 miles west and 1 south of Trumbull Nebraska.

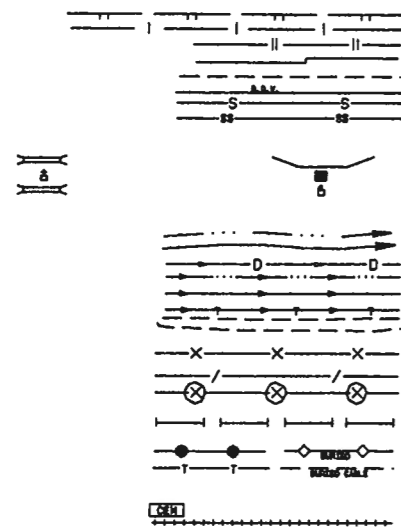
| | |
|-------------------------------|-------------|
| Design By: <u>SJM/JM</u> | <u>8/99</u> |
| Checked By: <u>S.J. MORAN</u> | <u>8/99</u> |

SPECIFICATION AND DRAWINGS
APPROVED FOR CONSTRUCTION

TRUMBULL BASIN PROJECT

| | |
|----------------|----|
| DRAWING NUMBER | |
| SHEET NO. | 1 |
| TOTAL SHEETS | 10 |

LEGEND AND SYMBOLS



File: edetalin.txt

TABLE OF QUANTITIES

| ITEM | UNIT | QUANTITY |
|---|----------|----------|
| Excavation | | |
| ROUSE PIT | CU YDS | 3,000 |
| Earth Fill, | | |
| SAATOFF DIKE | CU YDS | 24730 |
| COUNTY ROAD | CU YDS | 3150 |
| ROUSE/OSCHNER DIKE | CU YDS | 1143 |
| Concrete | CU YDS | 2.5 |
| Steel Reinforcement | LBS | 88.2 |
| 18 " dia 80 psi pvc | | |
| Installed. | LIN FT | 60 |
| Helical Corrugated Metal Pipe 24" dia. 14ga. with coupling bands Installed | LIN FT | 160 |
| Helical Corrugated Metal Pipe 36" dia. 14 ga. with Coupling band Flumed inlets, Installed | LIN FT | 344 |
| Corrugated Metal Pipe Stop Log Riser 48" dia. w/4' nom. len. 24" dia CMP tee complete | LUMP SUM | |
| Slide gate valve for 18" dia 80 psi pipe | EA | 1 |
| FENCING INSTALLED | LIN FT | 7,680 |

CONSTRUCTION NOTES

THE CONTRACTOR WILL INSPECT THE CONSTRUCTION AREA FOR THE PRESENCE OF UTILITY FACILITIES BOTH SURFACE AND SUBSURFACE AND WILL NOTIFY THE NEBRASKA ONE CALL SYSTEM AT 1-800-331-5666. THE CONTRACTOR WILL USE EXTRA PRECAUTIONS WHEN WORKING NEAR OR AROUND PIPELINES, POWER LINES, POWER POLES, UNDERGROUND CABLES OR OTHER UTILITY INSTALLATIONS.

CLEARING AND GRUBBING AREAS ARE AS STAKED AND MARKED ON THE SITE.

DISPOSAL AREAS FOR THE REMAINS FROM CLEARING AND GRUBBING SHALL BE AS STAKED AND MARKED ON THE SITE.

THE TOPSOIL FROM THE FOUNDATION WILL BE STRIPPED 0.5 FEET AND STOCK PILED AT LOCATION STAKED BY NRCS INSPECTOR. THIS TOPSOIL WILL LATER BE SPREAD ON THE DIKE.

BORROW AREA FOR EARTH FILL WILL BE STAKED IN THE FIELD BY THE NRCS INSPECTOR AS SHOWN ON PLANS. ALL BORROW AREAS ARE WITHIN 800 FEET NORMAL TO THE CENTERLINE OF THE DIKE AND WILL BE UTILIZED AS DETERMINED BY THE NRCS INSPECTOR.

SEEDING AND FENCING AREAS WILL BE STAKED IN THE FIELD BY THE NRCS INSPECTOR.

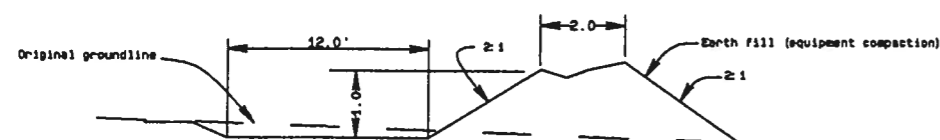
THIS PROJECT WILL BE CONSTRUCTED IN ACCORDANCE TO THE FOLLOWING NEBRASKA CONSTRUCTION SPECIFICATIONS: NE-1 (foundation preparation), NE-10 (water applied), NE-11 (water removal), NE-21 (excavation), NE-23 (earthfill), NE-32 (concrete), NE-51 (corrugated metal pipe), NE-81 (metal fabrication & installation), NE-220 (plastic pipe).

EMERGENCY SPILLWAY REQUIREMENTS ON OSCHNER DIKE: EL 1894.5; BOTTOM WIDTH = 30 FEET; 3:1 SS SOUTH EDGE OF SOUTH SIDE SLOPE IS 15 FEET NORTH OF SECTION C-C. (C-C = inlet to rouse road ditch).

EMERGENCY SPILLWAY REQUIREMENTS ON SAATOFF 80: EL 1893.70; BOTTOM WIDTH = 50 FEET; 3:1 SS LOCATION OF FIRST ES. 100' EAST OF SECTION B-B THEN LEAVE A 100' SPACE AND INSTALL THE SECOND ES. BOTH EMER. SPWY'S ARE THE SAME DIMENSIONS.

HYDRAULIC AND HYDROLOGIC DATA

DRAINAGE AREA = 827 ACRES; CN = 77; T of C = 9.8 HOURS; PLANNED TO STORE A 5 YEAR 24 HOUR STORM EVENT Q5 RAINFALL = 3.5 INCHES; RUNOFF = 1.43; CFS = 108 A 36" DIA. CMP W/CULVERT FLOW WILL HANDLE 50 CFS INSTALL (2) 36" DIA CMP'S THROUGH ROAD @ NORTH WEST CORNER OF SAATOFF 80, TO HANDLE RUNOFF FROM A 5 YEAR STORM. EFM CHAPTER 13, PAGE 13-42, STATES A MINIMUM DESIGN STORM FOR EMERGENCY SPILLWAYS IN DIKES IS A 10 YEAR 24 HOUR STORM. Q10 RAINFALL = 4.2 INCHES; RUNOFF = 1.97 INCHES CFS = 151 CFS. A SPILLWAY THAT IS 1.0 FOOT DEEP AND 28 FOOT WIDE WILL HANDLE 151 CFS. SIDE SLOPES WILL BE 3:1.

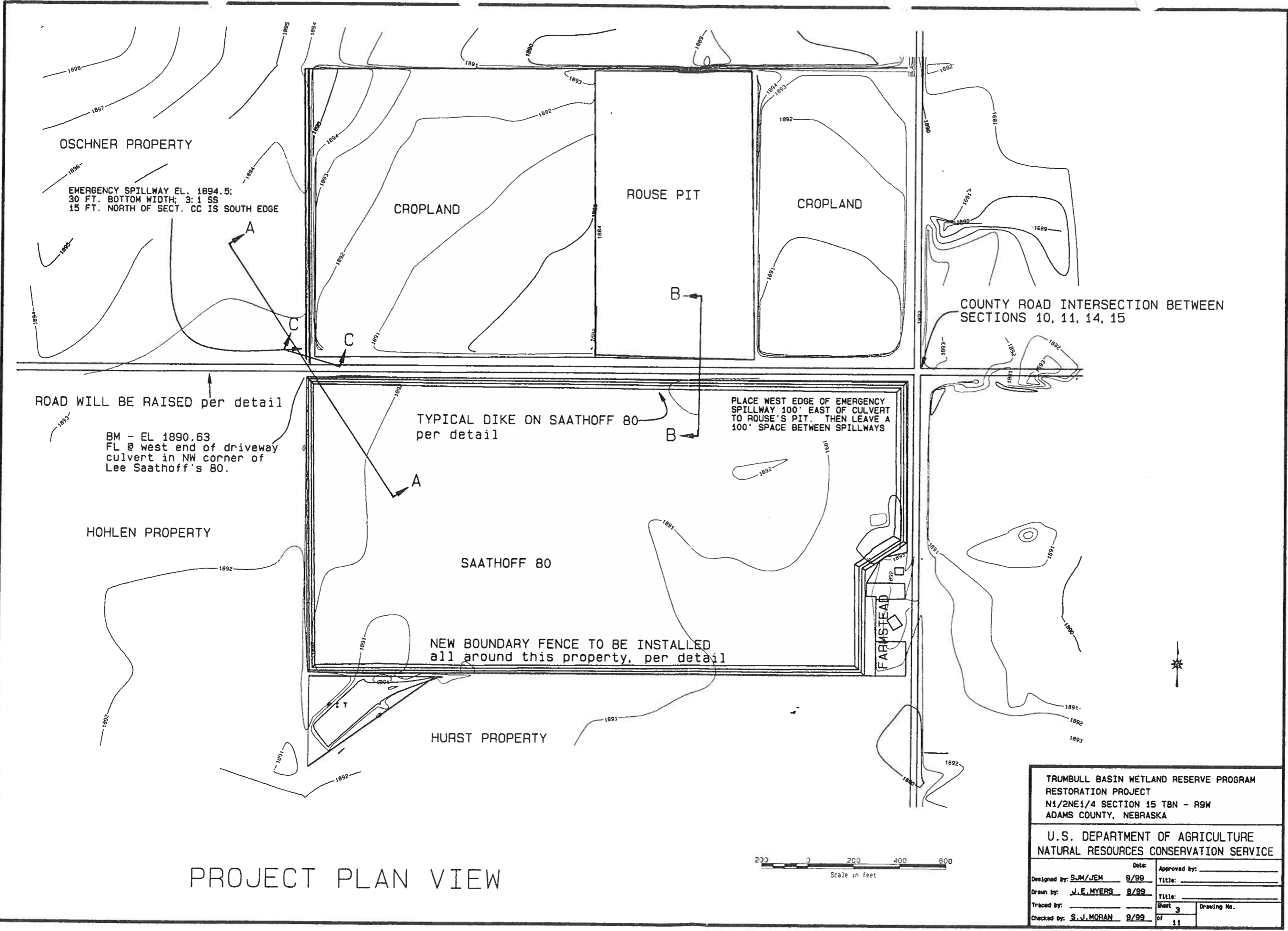


NOTE: Grade to be determined by the engineer.
TYPE B
DIVERSION - TYPICAL SECTION

TRUMBULL BASIN WETLAND RESERVE PROGRAM RESTORATION PROJECT
N1/2NE1/4 SECTION 15 T8N-R9W ADAMS COUNTY, NE.

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

| | | |
|------------------------|------------|--------------|
| Designed by: JEM/SJM | Date: 8/99 | Approved by: |
| Drawn by: J.E. MYERS | Date: 8/99 | Title: |
| Traced by: | Sheet 2 of | Drawing No. |
| Checked by: S.J. MORAN | Date: 8/99 | |



OSCHNER PROPERTY

EMERGENCY SPILLWAY EL. 1894.5;
30 FT. BOTTOM WIDTH; 3:1 SS
15 FT. NORTH OF SECT. CC IS SOUTH EDGE

CROPLAND

ROUSE PIT

CROPLAND

COUNTY ROAD INTERSECTION BETWEEN
SECTIONS 10, 11, 14, 15

ROAD WILL BE RAISED per detail

BM - EL 1890.63
FL @ west end of driveway
culvert in NW corner of
Lee Saathoff's 80.

HOHLEN PROPERTY

TYPICAL DIKE ON SAATHOFF 80
per detail

PLACE WEST EDGE OF EMERGENCY
SPILLWAY 100' EAST OF CULVERT
TO ROUSE'S PIT. THEN LEAVE A
100' SPACE BETWEEN SPILLWAYS

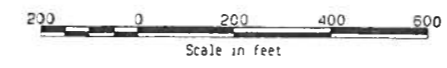
SAATHOFF 80

NEW BOUNDARY FENCE TO BE INSTALLED
all around this property, per detail

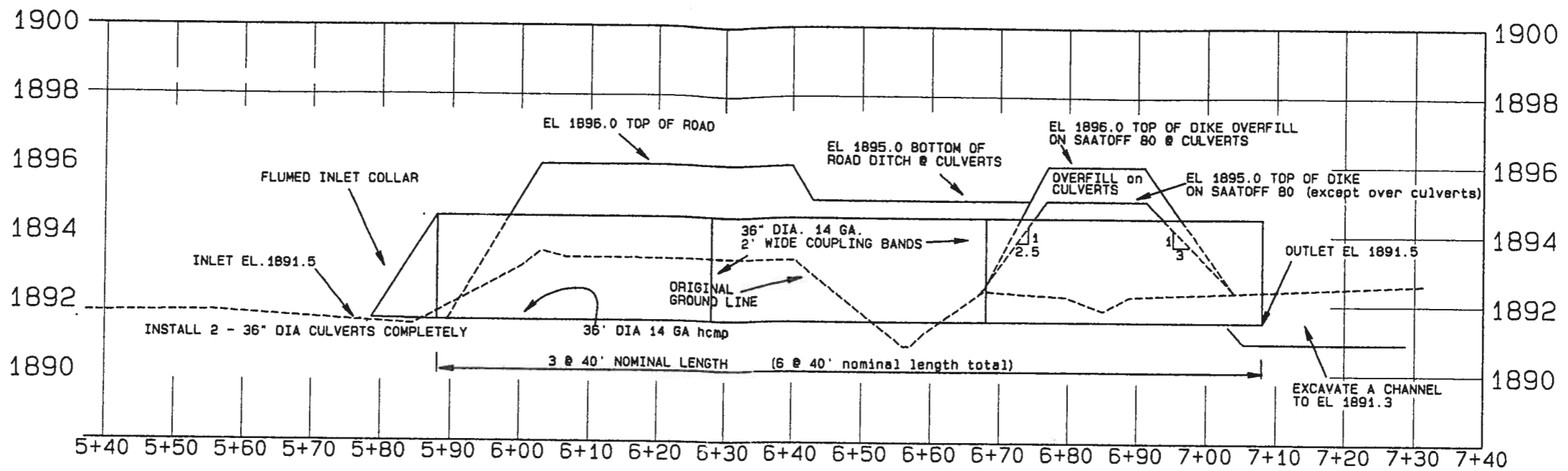
FARMSTEAD

HURST PROPERTY

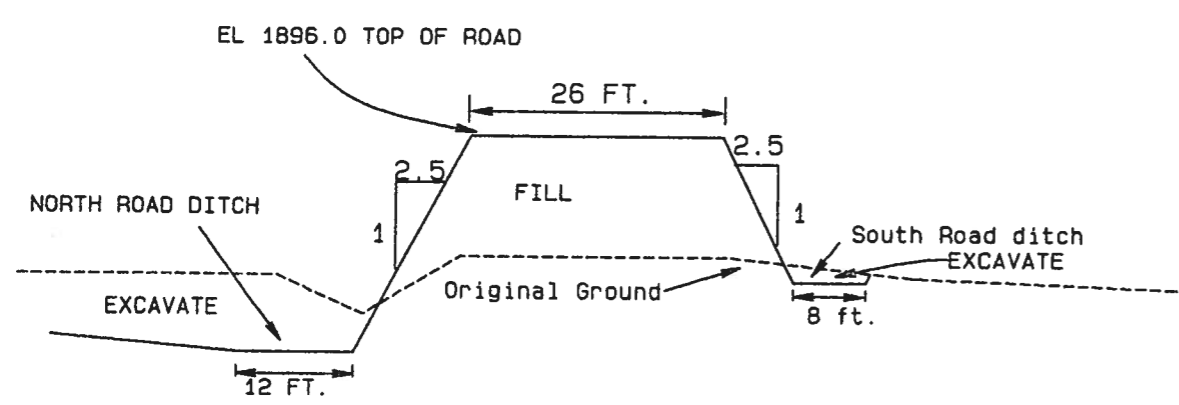
PROJECT PLAN VIEW



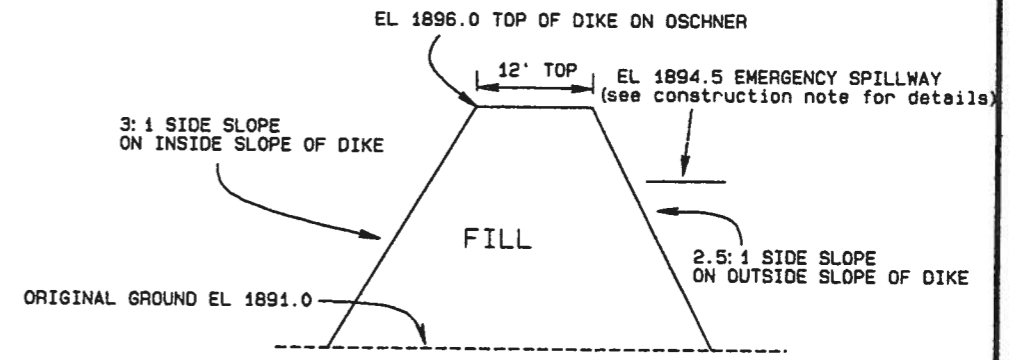
| | | | |
|---|---|--|-------------------|
| TRUMBULL BASIN WETLAND RESERVE PROGRAM RESTORATION PROJECT N1/2NE1/4 SECTION 15 T8N - R9W ADAMS COUNTY, NEBRASKA | | | |
| U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | | | |
| Designed by: <u>SJM/JEM</u> Drawn by: <u>J.E. MYERS</u> Traced by: _____ Checked by: <u>S.J. MORAN</u> | Date: <u>9/99</u> <u>8/99</u> <u>9/99</u> | Approved by: _____ Title: _____ Title: _____ Sheet <u>3</u> of <u>11</u> | Drawing No. _____ |



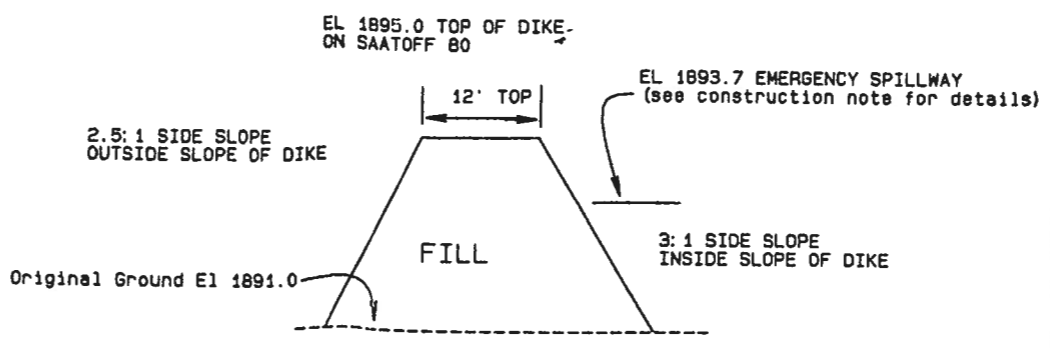
SECTION A - A
PROFILE ALONG INLET CULVERTS FROM OSCHNER TO 80



TYPICAL XSECTION OF ROAD @ STA 2+00



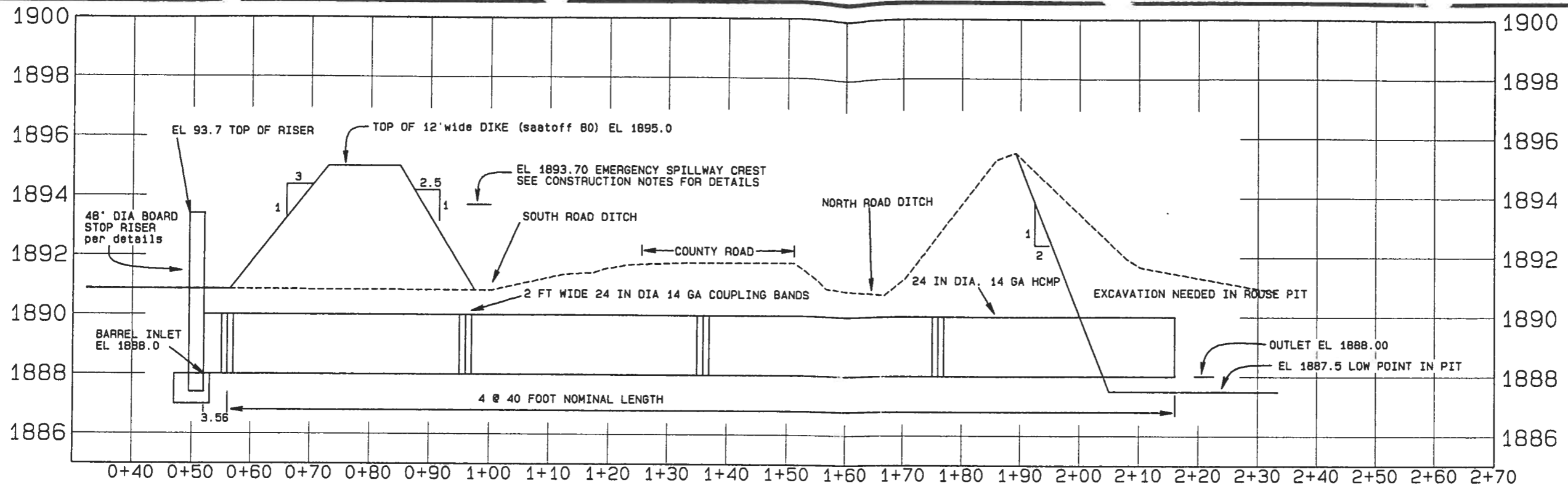
TYPICAL DIKE SECTION
OSCHNER PROPERTY



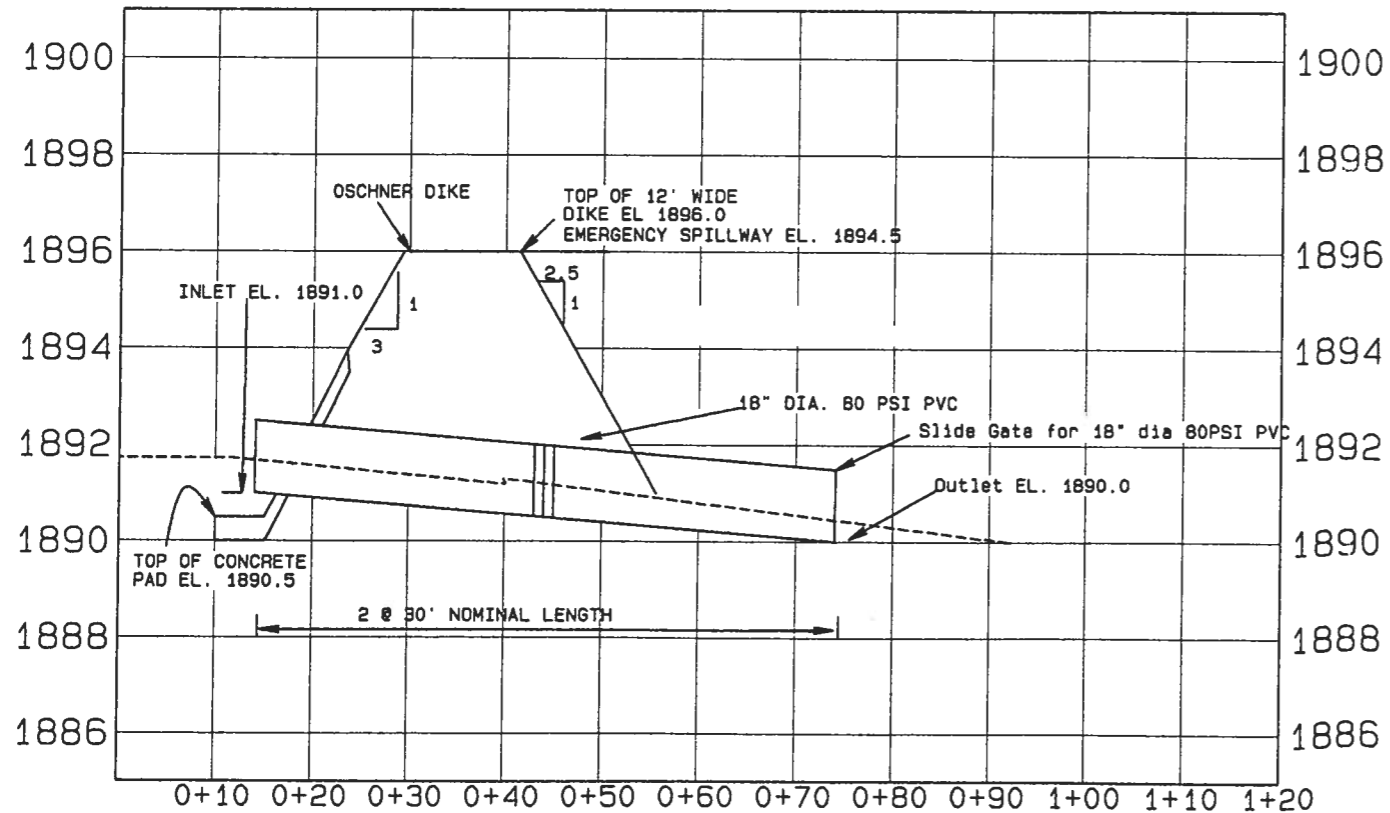
TYPICAL DIKE SECTION
SAATOFF 80

NOTE
EL 1896.0 TOP OF DIKE ON SAATOFF 80
FOR 100' WIDE AREA OVER CULVERT INLETS
FROM OSCHNER PROPERTY

| | | | |
|---|------------|--------------|-------------|
| TRUMBULL BASIN PROJECT N1/2NE1/4 SECTION 15 T8N - R9W ADAMS COUNTY, NE. | | | |
| U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | | | |
| Designed by: S.V.M. / J.M. | Date: 3/98 | Approved by: | |
| Drawn by: J.E. MYERS | 3/98 | Title: | |
| Traced by: | | Sheet | Drawing No. |
| Checked by: S.V.J. MORAN | 3/98 | of 10 | |

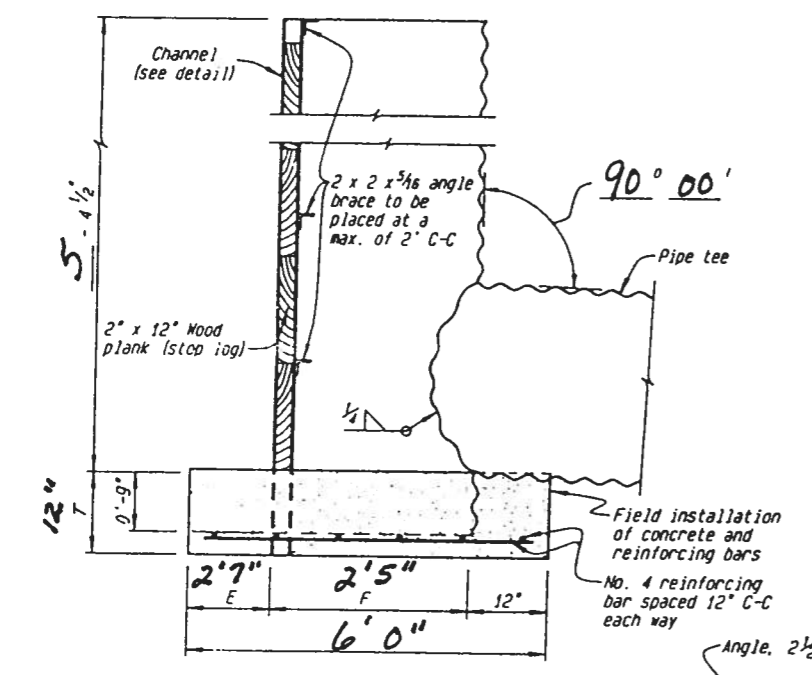
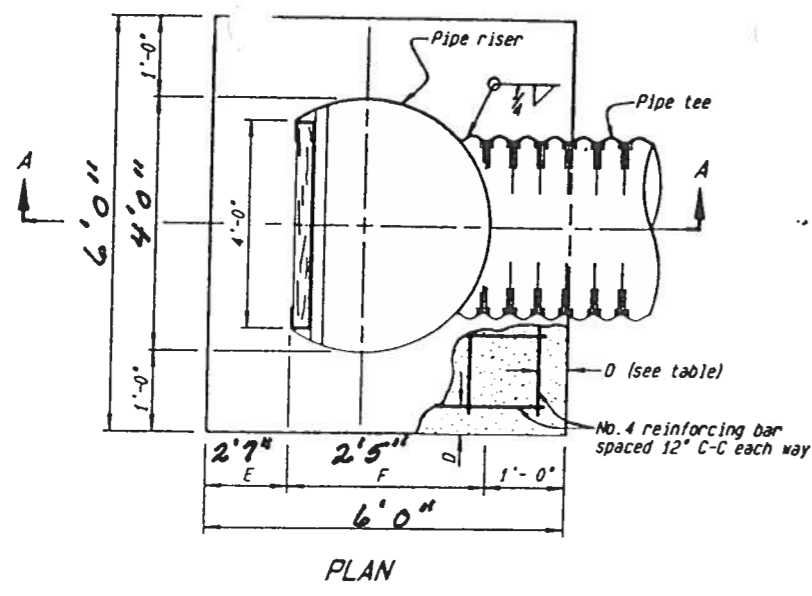


SECTION B - B
 PROFILE ALONG PIPES FROM 80 TO ROUSE'S PIT

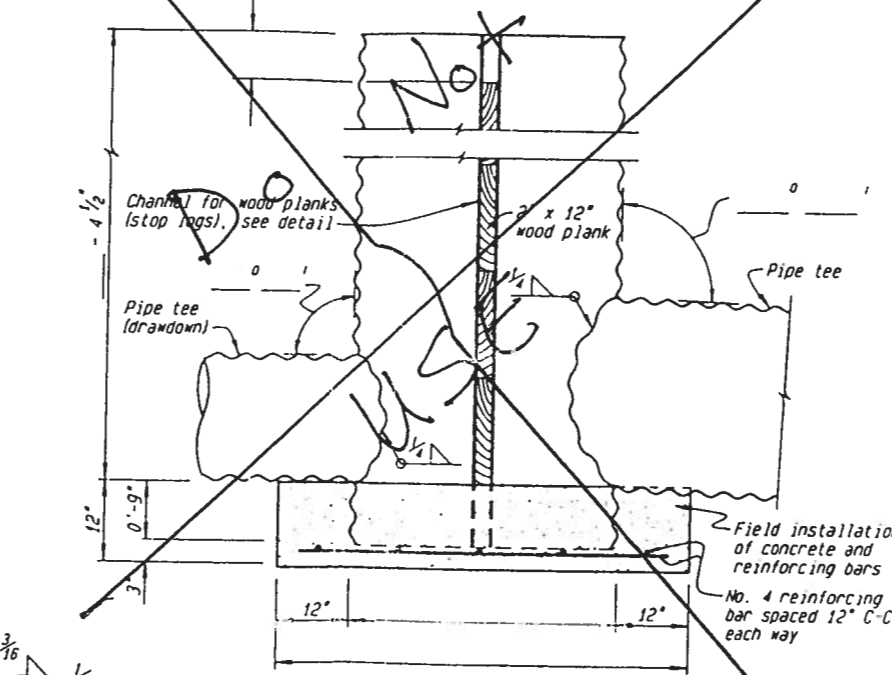
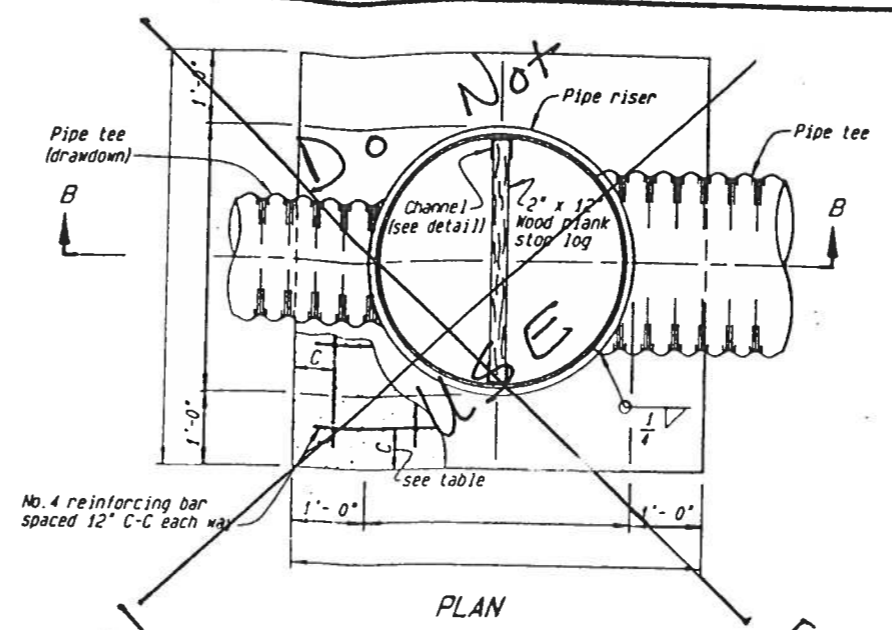


SECTION C - C
 PROFILE ALONG IRRIGATION RUNOFF INLET PIPE FROM OSCHNER DIKE TO ROUSE PIT

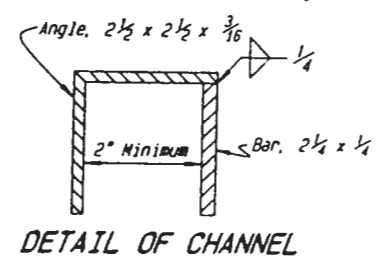
| | |
|---|--------------------|
| TRUMBULL BASIN PROJECT N1/2NE1/4 SECTION 15 T8N R9W ADAMS COUNTY, NE. | |
| U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE | |
| Designed by: S.J.M. JH 3/98 | Date: _____ |
| Drawn by: J.E. MYERS 3/98 | Approved by: _____ |
| Traced by: _____ | Title: _____ |
| Checked by: S.J. MORAN 3/98 | Sheet 5 of 10 |
| | Drawing No. _____ |



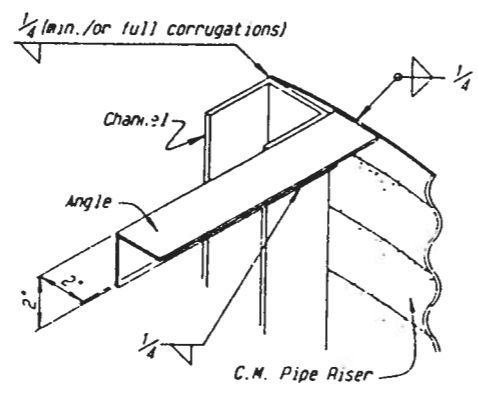
SECTIONAL ELEVATION A-A
STOP LOG FLOW CONTROL - PARTIAL RISER
DETAIL A



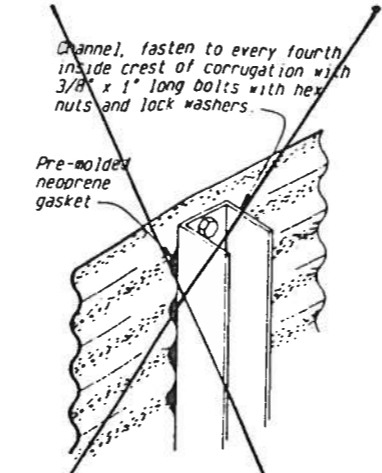
SECTIONAL ELEVATION B-B
STOP LOG FLOW CONTROL - FULL RISER
DETAIL B



DETAIL OF CHANNEL



CHANNEL INSTALLATION
(PARTIAL RISER)

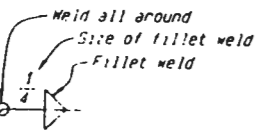


CHANNEL INSTALLATION
(FULL RISER)

TABLE OF QUANTITIES FOR RISER BASES

| ITEM | UNIT | QUANTITY |
|---|----------|----------|
| CONCRETE | CU. YDS. | 1.25 |
| REINFORCED STEEL (RISER BASE ONLY) | LBS. | 44.1 |
| PRE-MOLDED NEOPRENE GASKET | LIN. FT. | 12 |
| FABRICATED CHANNEL | LBS. | 59.70 |
| 2" x 12" WOOD PLANK CONSTRUCTION GRADE DOUGLAS FIR (OR EQUAL) NO. 1 LENGTH EACH | B.F.M. | 12 |
| 2" x 2" x 5/16" ANGLE BRACE 3 EA. @ 4 FT. | LIN. FT. | 12 |

WELD SYMBOLS



NOTE:
Weld symbol placed above line indicates weld is on opposite side of joint to which arrow points.
Weld symbol below line indicates weld is on side of joint to which arrow points.

| REQUIREMENT TABLE | | | |
|--|---|-------------------------------------|-------------------------------------|
| X IN BOX INDICATES THE REQUIREMENTS THAT APPLY TO STRUCTURE. / INDICATES - NOT APPLICABLE | | | |
| CONCRETE: CLASS | <input checked="" type="checkbox"/> 3000 | <input type="checkbox"/> 3000M | <input type="checkbox"/> 4000 |
| REINFORCING STEEL: | <input checked="" type="checkbox"/> #4 | <input type="checkbox"/> #5 | <input type="checkbox"/> #6 |
| DETAIL A | CORRUGATED METAL PIPE, ZINC COATED STEEL, 48" DIA., 14 GA., 6 FT. NOMINAL LENGTH WITH A 24" DIA., 14 GA., PIPE TEE 4 FT. NOMINAL LENGTH WELDED TO IT 9" FROM THE LOWER END. | | |
| DETAIL B | CORRUGATED METAL PIPE, ZINC COATED STEEL, " DIA., " GA., " FT. NOMINAL LENGTH WITH A " DIA., " GA., PIPE TEE " FT. NOMINAL LENGTH WELDED TO IT 9" FROM THE LOWER END, AND A " DIA., " GA. PIPE TEE (DRAWDOWN) " FT. NOMINAL LENGTH WELDED TO IT " FROM THE LOWER END. | | |
| PIPE CLASSIFICATION | | RISER | PIPE TEE |
| STANDARD RIVETED | | <input type="checkbox"/> | <input type="checkbox"/> |
| CLOSE RIVETED | | <input type="checkbox"/> | <input type="checkbox"/> |
| TYPE I FULL CIRCULAR CROSS-SECTION FABRICATED WITH ANNUULAR OR HELICAL CORRUGATIONS | | <input type="checkbox"/> | <input type="checkbox"/> |
| TYPE II, THIS IS TYPE I PIPE WHICH HAS BEEN REFORMED TO A PIPE ARCH HAVING APPROXIMATELY A FLAT BOTTOM WITH ANNUULAR OR HELICAL CORRUGATIONS | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| CORRUGATION REQUIREMENTS | | | |
| NOMINAL SIZE (INCH) | | | |
| 1 1/2 x 1/4 (AVAILABLE ONLY IN HELICALLY CORRUGATED PIPE) | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2 2/3 x 1/2 | | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 x 1 | | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 x 1 | | <input type="checkbox"/> | <input type="checkbox"/> |
| COATINGS - ZINC COATED STEEL | | | |
| FULLY BITUMINOUS COATED, TYPE A-1 | | <input type="checkbox"/> | <input type="checkbox"/> |
| ARAMID FIBER COMPOSITE, BITUMINOUS COATED | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| POLYMER PRECOATED, GRADE 10/10 | | <input type="checkbox"/> | <input type="checkbox"/> |
| NONE REQUIRED | | <input type="checkbox"/> | <input type="checkbox"/> |

NOTE:
THE FOLLOWING DESIGNATIONS FOR PIPE CLASSIFICATIONS, CORRUGATIONS AND COATINGS WHEN REFERRED TO ON THE DRAWINGS ARE IN ACCORDANCE WITH CURRENT ASTM'S:
A760 STANDARD SPECIFICATION FOR CORRUGATED STEEL PIPE, METALLIC-COATED.
A761 STANDARD SPECIFICATION FOR STEEL, GALVANIZED CORRUGATED STRUCTURAL PLATES AND FASTENERS.
A762 STANDARD SPECIFICATION FOR CORRUGATED STEEL PIPE, POLYMER PRECOATED FOR SEWERS AND DRAINS.
A845 STANDARD SPECIFICATION FOR POST-COATED AND LINED CORRUGATED STEEL SEWER AND DRAINAGE PIPE (BITUMINOUS OR CONCRETE).
A885 STANDARD SPECIFICATION OF STEEL SHEET, ZINC AND ARAMID FIBER COMPOSITE-COATED FOR CORRUGATED STEEL SEWER, CULVERT AND UNDERDRAIN PIPE.

- FABRICATION AND INSTALLATION NOTES:
- FOR FABRICATION OF RISERS ON HELICAL PIPE A FILLER STRIP MAY BE USED TO INSURE A WATERTIGHT SEAL BETWEEN THE RISER AND TEE.
 - WHEN MORE THAN ONE COATING IS CHECKED IN THE COLUMN BOXES EACH TYPE IS ACCEPTABLE BUT ONLY ONE TYPE OF COATING SHALL BE USED IN EACH INSTALLATION.
 - THE FOLLOWING ARE ACCEPTABLE SUBSTITUTIONS FOR THE CHANNEL DETAIL SHOWN:
A: C 3x5 AMERICAN STANDARD CHANNEL
B: 2 EACH - ANGLE, 2 x 1-1/4 x 3/16, WELD THE 1-1/4" LEGS TOGETHER USING 1/4" FILLET WELD, BOTH SIDES. WHEN THE ABOVE SUBSTITUTION IS USED IN THE "FULL RISER INSTALLATION" COUNTERSINK 3/8" x 1" BOLTS WITH HEX NUTS AND LOCK WASHERS SHALL BE PROVIDED.
 - ALL ANGLES AND BARS TO BE SECURELY WELDED AS SHOWN ON THE PLANS IN ACCORDANCE WITH SPECIFICATIONS.
 - ALL WELDS AND HEAT AFFECTED AREAS ON GALVANIZED METAL TO BE TREATED IN ACCORDANCE WITH SPECIFICATIONS.
 - NO. 4 REINFORCED BAR = 1/2" DIA. = 0.668 LB. PER LIN. FT.
 - CHANNEL DETAIL
ANGLE, 2-1/2 x 2-1/2 x 3/16 = 3.07 LB. PER LIN. FT.
BAR, 2-1/4 x 1/4 = 1.91 LB. PER LIN. FT.
TOTAL WEIGHT = 4.98 LB. PER LIN. FT.
 - PREMOLDED NEOPRENE GASKET SHALL BE SIMILAR AND EQUAL TO A BUTLER RUBBER CLOSURE STRIP (PART NO. 250424) AVAILABLE THROUGH THE LOCAL BUTLER BUILDING DEALER.
 - USE A MINIMUM 30" DIA. RISER TO FACILITATE INSTALLATION AND REMOVAL OF STOP LOGS.
 - ALL SEAMS CUT, DUE TO FABRICATING IN HELICAL PIPE, SHALL BE WELDED FOR A LENGTH OF 1" FROM THE EDGE OF THE CUT AND TREATED ACCORDING TO SPECIFICATIONS.

MATERIAL LIST FOR FULL RISER CONCRETE BASE

| DIA. OF RISER IN INCHES | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 |
|---------------------------------|------|------|------|------|------|------|----|----|
| CONCRETE, CU. YDS. | 0.75 | 1.09 | 1.12 | 1.11 | 1.58 | 1.81 | | |
| NO. 4 REINFORCING BAR, LIN. FT. | 40 | 45 | 60 | 66 | 84 | 91 | | |
| LENGTH OF EACH BAR, FT. - IN. | 4-0 | 4-6 | 5-0 | 5-6 | 6-0 | 6-6 | | |
| TOTAL NUMBER OF BARS | 10 | 10 | 12 | 12 | 14 | 14 | | |
| TOTAL WEIGHT - NO. 4 BARS, LBS. | 26.7 | 30.0 | 40.1 | 44.1 | 56.1 | 60.8 | | |

MATERIAL LIST FOR PARTIAL RISER CONCRETE BASE

| DIA. OF RISER IN INCHES | 48 | 54 | 60 | 66 | 72 | 78 |
|---------------------------------|------|------|------|------|------|------|
| CONCRETE, CU. YDS. | 1.25 | 1.96 | 2.27 | 3.13 | 3.58 | 4.01 |
| NO. 4 REINFORCING BAR, LIN. FT. | 66 | 84 | 91 | 112 | 120 | 144 |
| LENGTH OF EACH BAR, FT. - IN. | 5-6 | 6-0 | 6-6 | 7-0 | 7-6 | 8-0 |
| TOTAL NUMBER OF BARS | 12 | 14 | 14 | 16 | 16 | 18 |
| TOTAL WEIGHT - NO. 4 BARS, LBS. | 44.1 | 56.1 | 60.8 | 74.8 | 70.2 | 96.2 |

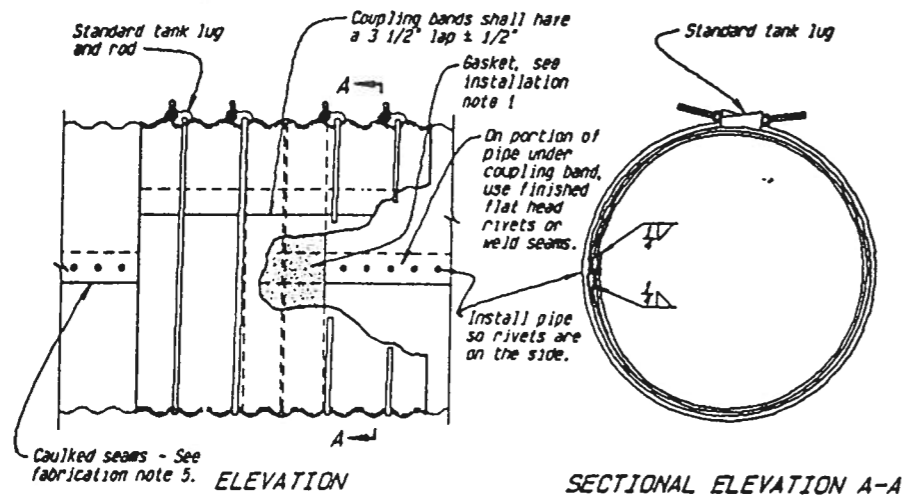
TABLE FOR DIMENSIONS

| DIA. OF RISER IN INCHES | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 |
|-------------------------|----|----|----|-------|-------|-------|-------|-------|--------|
| C SPACING IN INCHES | 3 | 6 | 3 | 6 | 3 | 6 | - | - | - |
| D SPACING IN INCHES | - | - | - | 6 | 3 | 6 | 3 | 6 | 3 |
| E SPACING IN FT./IN. | - | - | - | 2'-7" | 2'-2" | 2'-0" | 1'-6" | 1'-9" | 1'-8" |
| F SPACING IN FT./IN. | - | - | - | 2'-5" | 3'-4" | 4'-0" | 4'-8" | 5'-3" | 5'-10" |
| T SPACING IN INCHES | - | - | - | 12" | 15" | 15" | 18" | 18" | 18" |

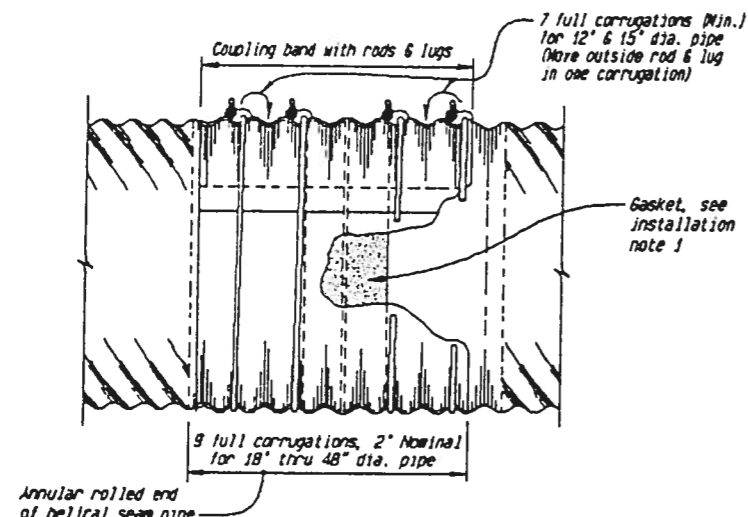
METAL PIPE RISERS WITH STOP LOG CONTROL

Trumbull Basin WRP Restoration
N 1/2 NE 1/4 Section 15 T 8N - R 9E
Adams County, Nebraska
U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

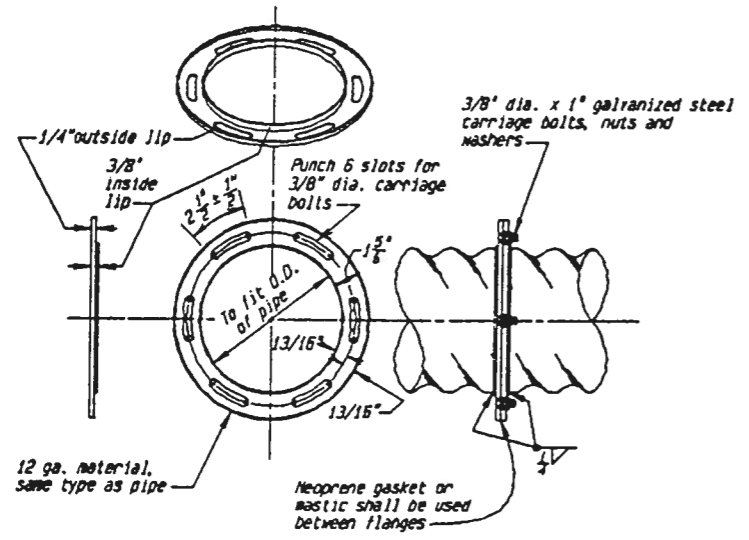
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Approved by: JEM
Designed by: JEM
Drawn by: JEM
Checked by: S.J.M.
Title: _____
Sheet: 6 of 10
Drawing No: _____



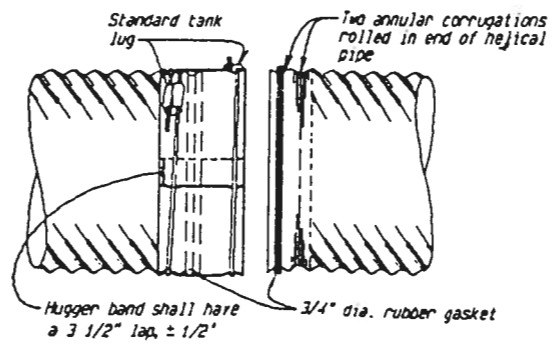
DETAIL A
WATERTIGHT COUPLING BAND FOR ANNULAR PIPE



DETAIL B
WATERTIGHT COUPLING BAND FOR HELICAL PIPE



DETAIL C
FLANGE COUPLING FOR 8\"/>



DETAIL D
WATERTIGHT HUGGER TYPE COUPLING BAND

FABRICATION NOTES

1. WHEN SEVERAL DIFFERENT COATINGS OR CORRUGATIONS ARE CHECKED IN THE COLUMN BOXES, EACH TYPE IS ACCEPTABLE, BUT ONLY ONE TYPE SHALL BE USED IN EACH INSTALLATION.
2. COUPLING BANDS PER DETAILS "A" AND "B" SHALL HAVE THE SAME CORRUGATION REQUIREMENT AND THE SAME COATING AS THE DESIGNATED PIPE.
3. ALL WELDS AND ALL HEAT AFFECTED AREAS ON COATED STEEL SHALL BE THOROUGHLY CLEANED AND TREATED IN ACCORDANCE WITH ASTM'S.
4. ROD SIZE FOR 8" THRU 15" DIAMETER PIPE SHALL BE 3/8" DIAMETER. FOR PIPE LARGER THAN 15" DIAMETER THE ROD SHALL BE 1/2" DIAMETER. DIAMETER OF HOLES IN THE LUGS SHALL BE 1/8" LARGER THAN THE DIAMETER OF THE ROD USED.
5. DURING FABRICATION, WHEN ASPHALT COATING IS NOT USED, RIVETED SEAMS SHALL BE CAULKED WITH AN ASPHALT OR TAR BASE MATERIAL MEETING ASTM A849 TO PROVIDE A WATERTIGHT SEAM. ALL CIRCUMFERENTIAL AND LOGITUDINAL SEAMS SHALL BE CAULKED BEFORE RIVETING. THIS SHALL BE ACCOMPLISHED BY APPLYING A UNIFORM BEAD OF THE ASPHALT OR TAR BASE COMPOUND TO THE INNER LAP SURFACE BEFORE RIVETING SUCH THAT WHEN THE RIVETS ARE IN PLACE, ALL VOIDS ARE FILLED.
6. CLOSE RIVETED PIPE SHALL BE FABRICATED SO THAT THE RIVET SPACING IN THE CIRCUMFERENTIAL SEAMS SHALL NOT EXCEED 3 INCHES, EXCEPT THAT 12 RIVETS WILL BE SUFFICIENT ON 12" DIA. PIPE.

INSTALLATION NOTES

1. THE NEOPRENE GASKET SIZE SHALL BE 3/8" THICK WITH A MINIMUM WIDTH OF 7" CENTERED ON THE PIPE JOINT AND FASTENED AT ENDS TO FORM A FULL CIRCLE. IN LIEU OF A NEOPRENE GASKET, ASPHALT OR TAR BASE MASTIC MAY BE USED FOR DETAIL "A" AND "B". (SEE NOTE 5)
2. IN CONNECTING THE PIPE SECTIONS, THE COUPLING BANDS WILL BE CENTERED ON THE PIPE JOINT AND ALIGNED FOR COMPLETE AND TIGHT NESTING OF CORRUGATIONS BETWEEN COUPLING BAND AND EACH PIPE SECTION. RODS AND LUGS ON COUPLING BANDS WILL BE INSTALLED ACCORDING TO THE DRAWINGS. THE NUTS ON THE RODS WILL BE TIGHTENED WITHOUT OVERSTRESS AND WILL BE RETIGHTENED AT LEAST TWICE AFTER INITIAL INSTALLATION, AT INTERVALS OF APPROXIMATELY 1/2 HOUR. THE FINAL TENSION ON THE RODS SHALL BE DETERMINED BY THE ENGINEER. BACKFILLING AROUND THE PIPE, EXCEPT AT COUPLING BANDS, MAY PROCEED DURING THE INTERVALS REQUIRED FOR TIGHTENING BANDS.
3. BEFORE COUPLING BANDS ARE INSTALLED ON RIVETED PIPE, THE PIPE SECTIONS THAT ARE TO BE CONNECTED SHALL BE ROTATED SO RIVETS OF PIPE ARE ON THE SIDE OF THE PIPE (SEE DETAIL "A") AND THE INSIDE LAPS ARE POINTED DOWNSTREAM.
4. ON BITUMINOUS COATED PIPE, REMOVE EXCESS BITUMINOUS COATING FROM CORRUGATIONS WHERE BANDS AND PIPE JOIN.
5. THE ENDS OF THE TWO PIPE SECTIONS AND LAP SEAM WILL BE COATED WITH 1/4" OF ASPHALT OR TAR BASE MASTIC (ASTM A849, TROWEL GRADE) FOR DETAIL "A" AND "B" COUPLING BANDS. THE MASTIC COATED AREAS SHOULD BE KEPT FREE OF ALL DIRT, GRAVEL, AND OTHER FOREIGN MATERIAL UNTIL BANDS ARE IN PLACE AND TIGHTENED. WHEN AIR TEMPERATURE IS 50°F, OR LOWER, HEAT WILL BE APPLIED TO SOFTEN, BUT NOT BURN OR MELT, THE MASTIC.
6. FLANGE COUPLING BANDS SHALL BE ALIGNED WITH MATCHING SLOTS, AND NUTS ON THE BOLTS TIGHTENED SECURELY. NEOPRENE GASKET OR MASTIC SHALL BE USED BETWEEN FLANGES, AND NUTS WILL BE RETIGHTENED AFTER COMPLETE ASSEMBLY.

METAL PIPE REQUIREMENTS

NOTE:
 THE FOLLOWING DESIGNATIONS FOR PIPE CLASSIFICATIONS, CORRUGATIONS AND COATINGS WHEN REFERRED TO ON THE DRAWINGS ARE IN ACCORDANCE WITH CURRENT ASTM'S:

- A760 STANDARD SPECIFICATION FOR CORRUGATED STEEL PIPE, METALLIC-COATED.
- A761 STANDARD SPECIFICATION FOR STEEL, GALVANIZED CORRUGATED STRUCTURAL PLATES AND FASTENERS.
- A762 STANDARD SPECIFICATION FOR CORRUGATED STEEL PIPE, POLYMER PRECOATED FOR SEWERS AND DRAINS.
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- A885 STANDARD SPECIFICATION OF STEEL SHEET, ZINC AND ARAMID FIBER COMPOSITE-COATED FOR CORRUGATED STEEL SEWER, CULVERT AND UNDERDRAIN PIPE.

PIPE CLASSIFICATION

- TYPE I FULL CIRCULAR CROSS-SECTION
- TYPE II, THIS IS TYPE I PIPE WHICH HAS BEEN REFORMED INTO A PIPE ARCH HAVING APPROXIMATELY A FLAT BOTTOM

CORRUGATION REQUIREMENTS FOR TYPE I AND II PIPE

- NOMINAL SIZE (INCH)**
- 1 1/2 x 1/4 (AVAILABLE ONLY IN HELICALLY CORRUGATED PIPE)
 - 2 2/3 x 1/2 (STANDARD CORRUGATIONS)
 - 3 x 1

COATINGS - SEE FABRICATION NOTE NO. 1

- ALUMINUM COATED STEEL - SEE FABRICATION NOTE NO. 5
- ZINC COATED STEEL - SEE FABRICATION NOTE NO. 5
- POLYMER PRECOATED - SEE FABRICATION NOTE NO. 5
- ARAMID FIBER COMPOSITE, BITUMINOUS COATED
- FULLY BITUMINOUS COATED

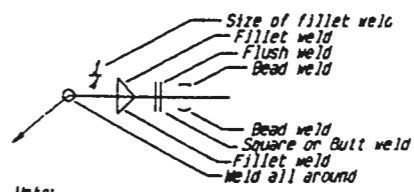
CORRUGATION TYPES - SEE FABRICATION NOTE NO. 1

- ANNULAR, CLOSE RIVETED
- HELICAL

COUPLING BAND REQUIREMENTS

| GAGE | BAND TYPE AND NUMBER OF RODS REQUIRED | NUMBER BANDS REQUIRED | DETAIL |
|------|---|-----------------------|--|
| 14 | <input checked="" type="checkbox"/> 2 FT. WITH 4 RODS FOR 24" DIA. PIPE | 4 | <input checked="" type="checkbox"/> A <input type="checkbox"/> B |
| | <input type="checkbox"/> 4 FT. WITH 6 RODS FOR _____" DIA. PIPE | | <input type="checkbox"/> A <input type="checkbox"/> B |
| 12 | <input type="checkbox"/> FLANGE FOR 8" AND 10" PIPE _____" DIA. PIPE | | <input type="checkbox"/> C |
| | <input type="checkbox"/> HUGGER WITH 2 RODS FOR _____" DIA. PIPE | | <input type="checkbox"/> D |

WELD SYMBOLS



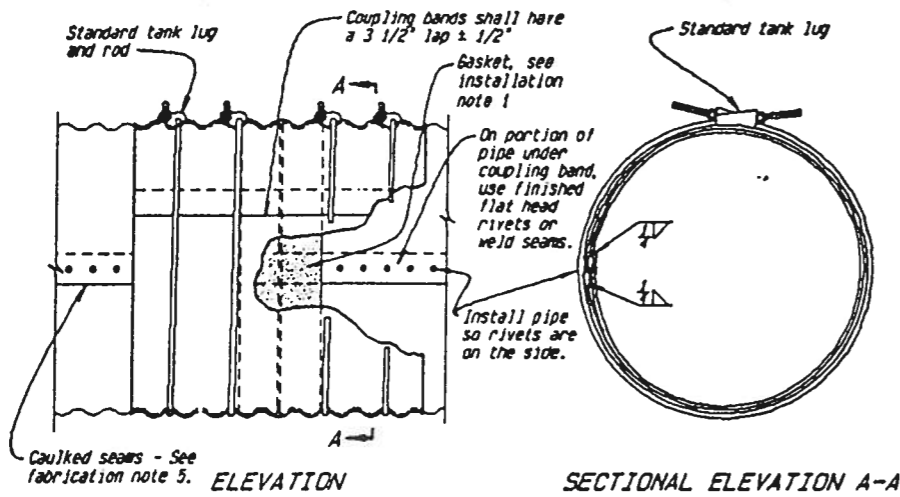
METAL PIPE REQUIREMENTS AND COUPLING BANDS

Trumbull Basin WEP Restoration
 N 1/2 NE 1/4 Section 15 T8N-R9W
 Adams County NEBRASKA

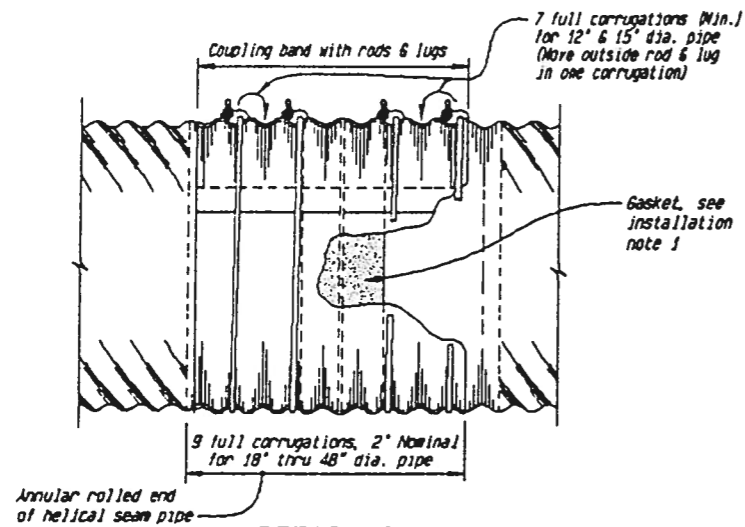
U.S. DEPARTMENT OF AGRICULTURE
 NATURAL RESOURCES CONSERVATION SERVICE

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 Drawn by: *[Signature]* 8/89
 Title: _____
 Checked by: *[Signature]* 8/89
 Sheet 7 of 10
 Drawing No. _____

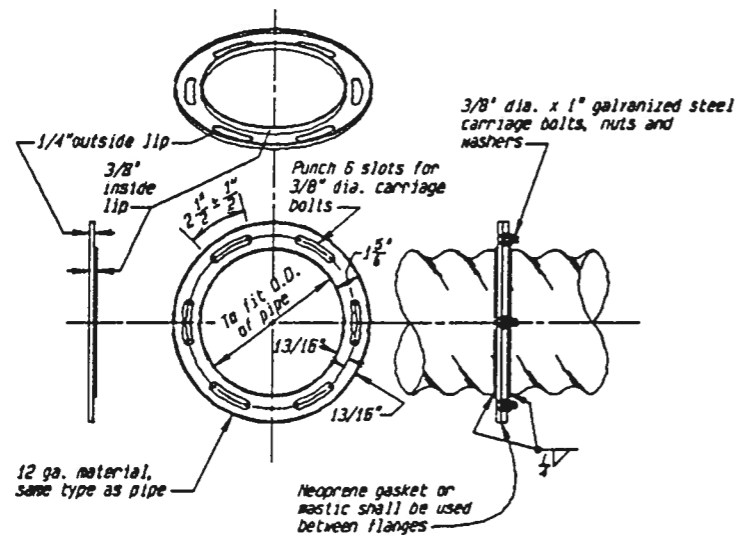
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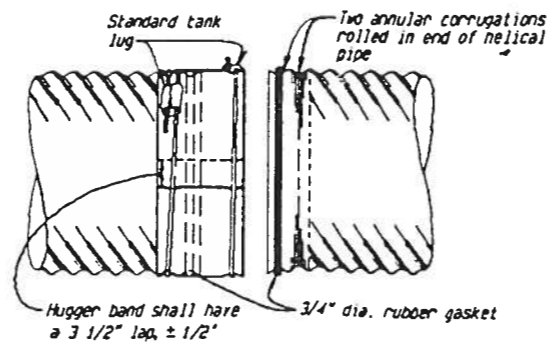
DETAIL A
WATERTIGHT COUPLING BAND FOR ANNULAR PIPE



DETAIL B
WATERTIGHT COUPLING BAND FOR HELICAL PIPE



DETAIL C
FLANGE COUPLING FOR 8\" & 10\" DIA. PIPE



DETAIL D
WATERTIGHT HUGGER TYPE COUPLING BAND

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- NOMINAL SIZE (INCH)**
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 - 2 2/3 x 1/2 (STANDARD CORRUGATIONS)
 - 3 x 1

COATINGS - SEE FABRICATION NOTE NO. 1

- ALUMINUM COATED STEEL - SEE FABRICATION NOTE NO. 5
- ZINC COATED STEEL - SEE FABRICATION NOTE NO. 5
- POLYMER PRECOATED - SEE FABRICATION NOTE NO. 5
- ARAMID FIBER COMPOSITE, BITUMINOUS COATED
- FULLY BITUMINOUS COATED

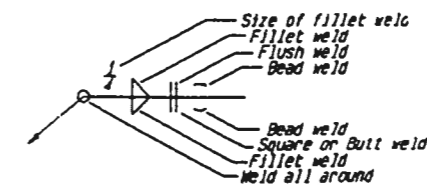
CORRUGATION TYPES - SEE FABRICATION NOTE NO. 1

- ANNULAR, CLOSE RIVETED
- HELICAL

COUPLING BAND REQUIREMENTS

| GAGE | BAND TYPE AND NUMBER OF RODS REQUIRED | NUMBER BANDS REQUIRED | DETAIL |
|------|---|-----------------------|--|
| 14 | <input checked="" type="checkbox"/> 2 FT. WITH 4 RODS FOR 36" DIA. PIPE | 4 | <input checked="" type="checkbox"/> A <input type="checkbox"/> B |
| | <input type="checkbox"/> 4 FT. WITH 6 RODS FOR _____" DIA. PIPE | | <input type="checkbox"/> A <input type="checkbox"/> B |
| 12 | <input type="checkbox"/> FLANGE FOR 8" AND 10" PIPE _____" DIA. PIPE | | <input type="checkbox"/> C |
| | <input type="checkbox"/> HUGGER WITH 2 RODS FOR _____" DIA. PIPE | | <input type="checkbox"/> D |

WELD SYMBOLS



Note:
Weld symbol above line indicates weld is on opposite side of joint to which arrow points.
Weld symbol below line indicates weld is on side of joint to which arrow points.

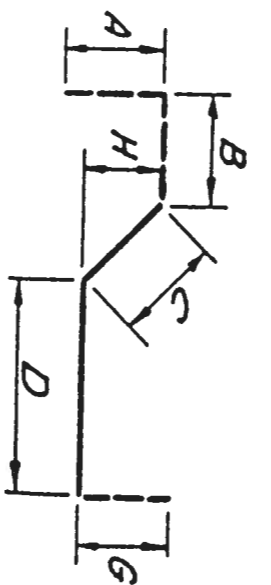
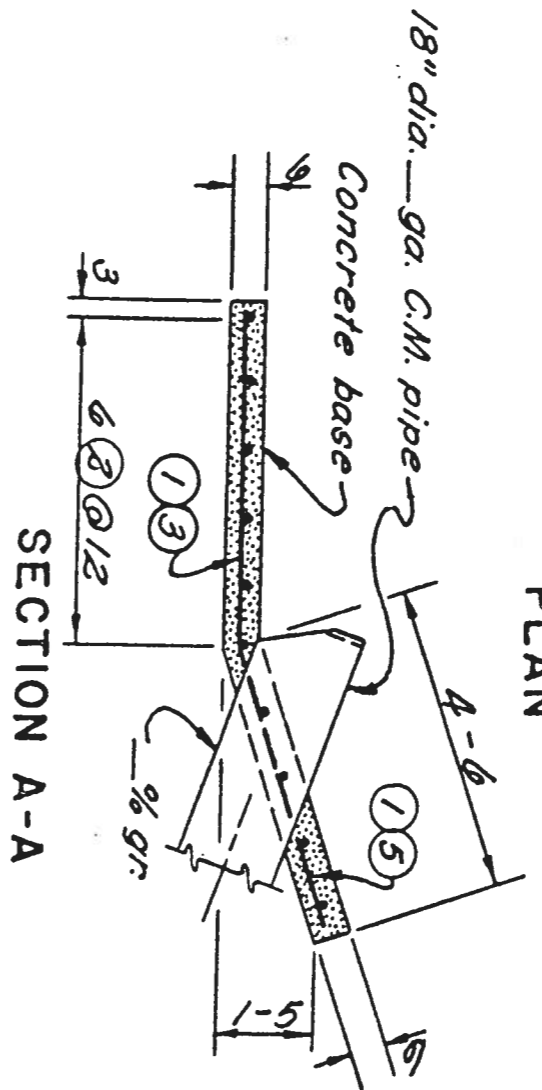
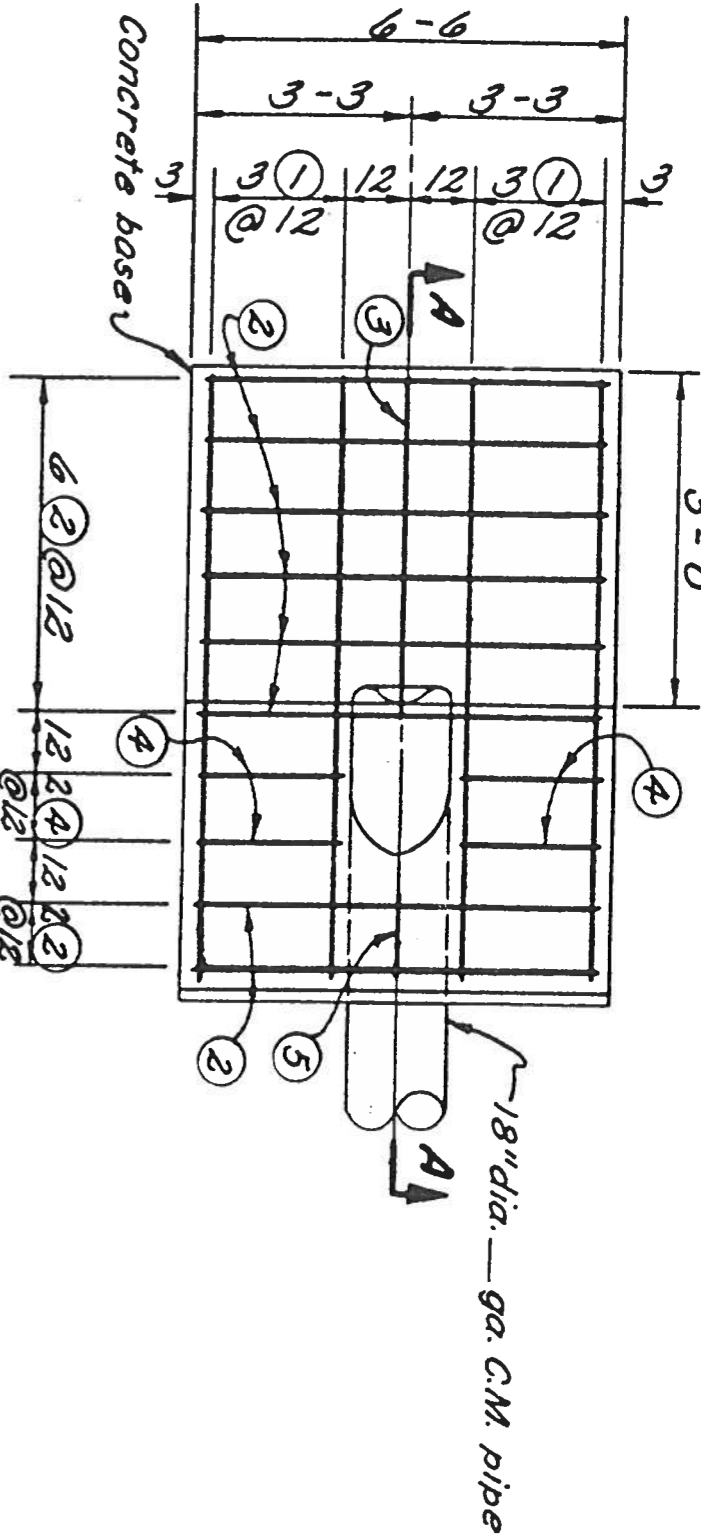
METAL PIPE REQUIREMENTS AND COUPLING BANDS

Trumbull Basin WRP Restoration
N 1/2 NE 4 SECTION 15 T 8N-R9E
Adams County NEBRASKA

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

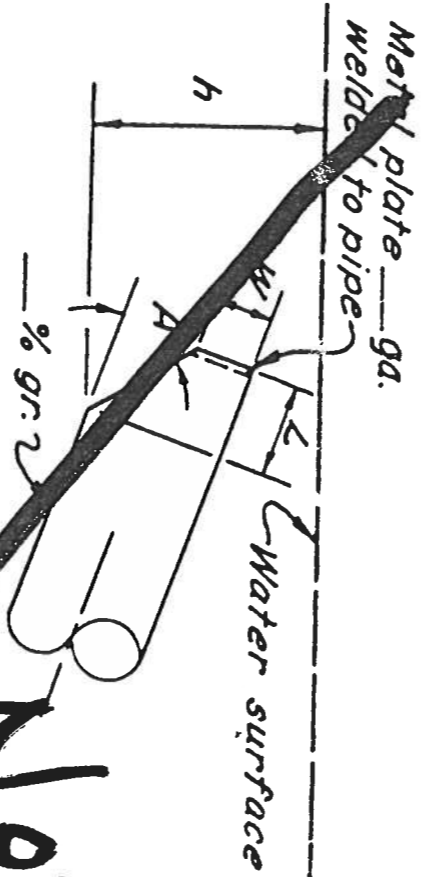
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|--------------------|------------|--------------|-------------|
| Designed by: JEM | Date: 8/99 | Approved by: | Title: |
| Drawn by: JEM | 8/99 | | |
| Traced by: | | Sheet 8 | Drawing No. |
| Checked by: S.J.M. | 8/99 | of 10 | |

DETAILS AND QUANTITIES OF ~~CONCRETE~~ CONCRETE
 SLAB BASE 18" DIA. ~~BARREL~~ BARREL



BAR TYPES

STR.
Straight



DETAIL OF CANOPY INLET
 BAR SCHEDULE

| MARK | QUAN. | LENGTH | TOTAL LENGTH | TYPE | C | D | G |
|------|-------|--------|--------------|------|-----|-----|-----|
| 1 | 6 | 9-0 | 54-0 | 6 | 4-3 | 9 | 1-4 |
| 2 | 8 | 6-0 | 48-0 | Str. | | | |
| 3 | 1 | 5-0 | 5-0 | 6 | 0-3 | 4-9 | 0-1 |
| 4 | 4 | 2-3 | 9-0 | Str. | | | |
| 5 | 1 | 1-3 | 1-3 | Str. | | | |

All bars are 1/2" dia., 0.668 lbs. per lin.ft.

DIMENSIONS FOR CANOPY

| GRADE, % | W IN. | L IN. | A DEG. | *h FT. |
|----------|-------|--------|--------|--------|
| 0-5 | 3 3/8 | 3 3/4 | 56 | 2.10 |
| 6-15 | 3 5/8 | 14 3/8 | 45 | 2.25 |
| 16-25 | 7/8 | 19 3/4 | 33 | 2.40 |
| 26-33 | 6 1/4 | 23 3/8 | 27 | 2.55 |

*Min. "h" for full pipe flow
 CHECK TYPE OF PIPE INSTALLATION

- Close riveted galv. & asphalt ctd. pipe.W.T. connecting bands
- Close riveted galv. asbestos bonded & asphalt ctd. pipe, W.T. connecting bands

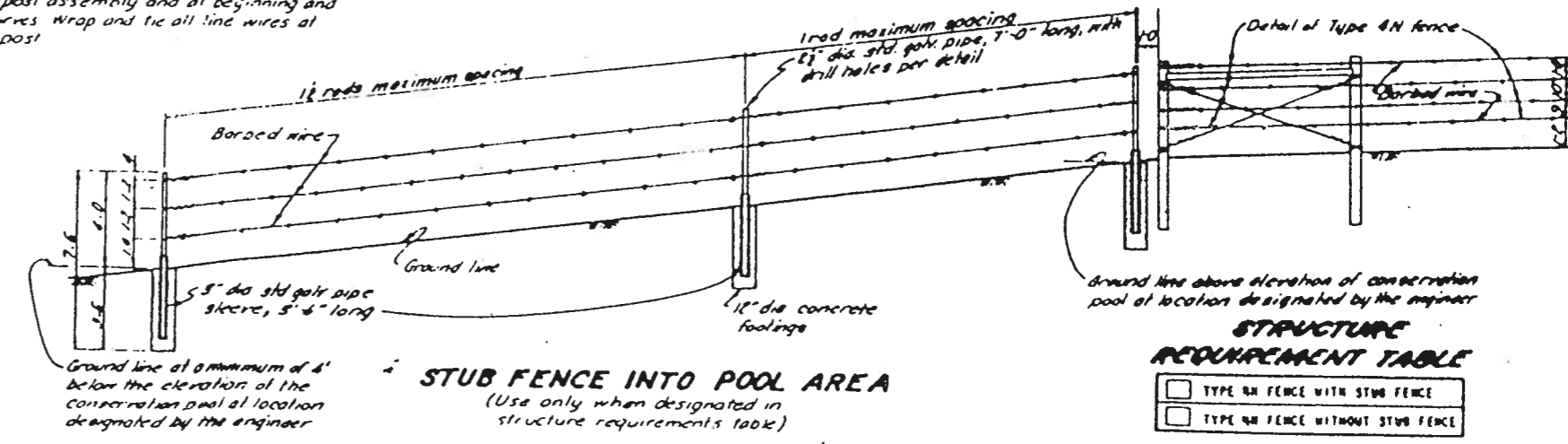
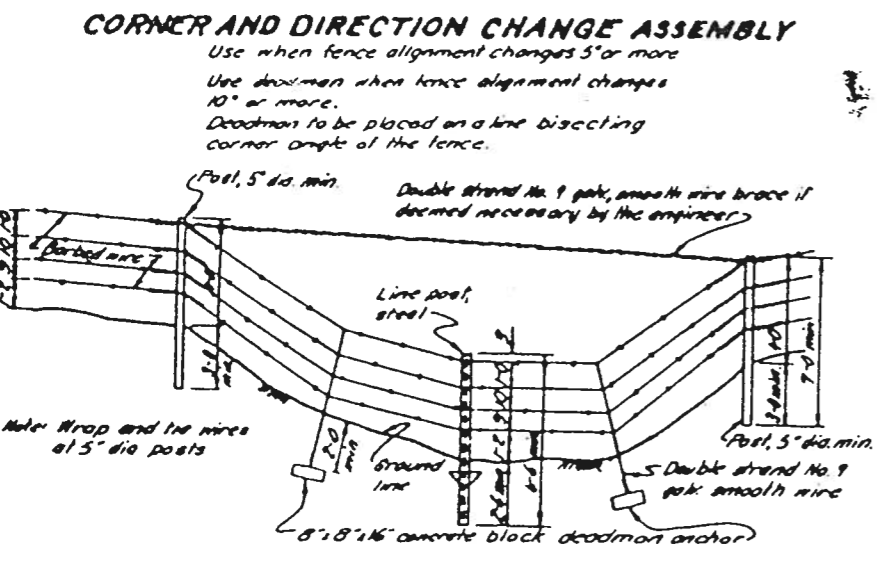
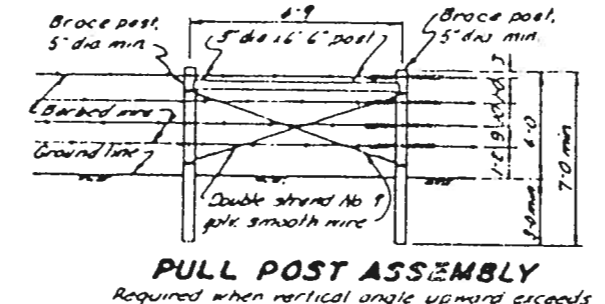
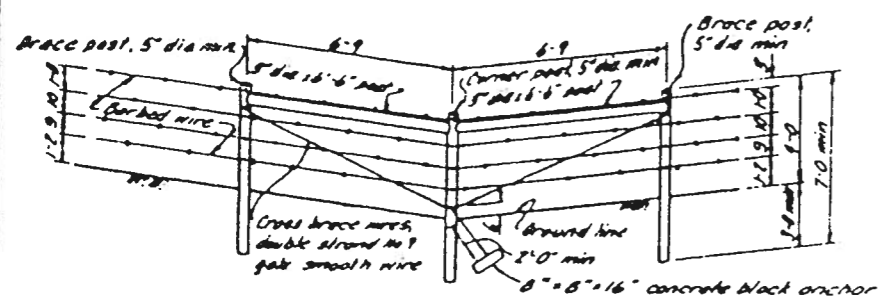
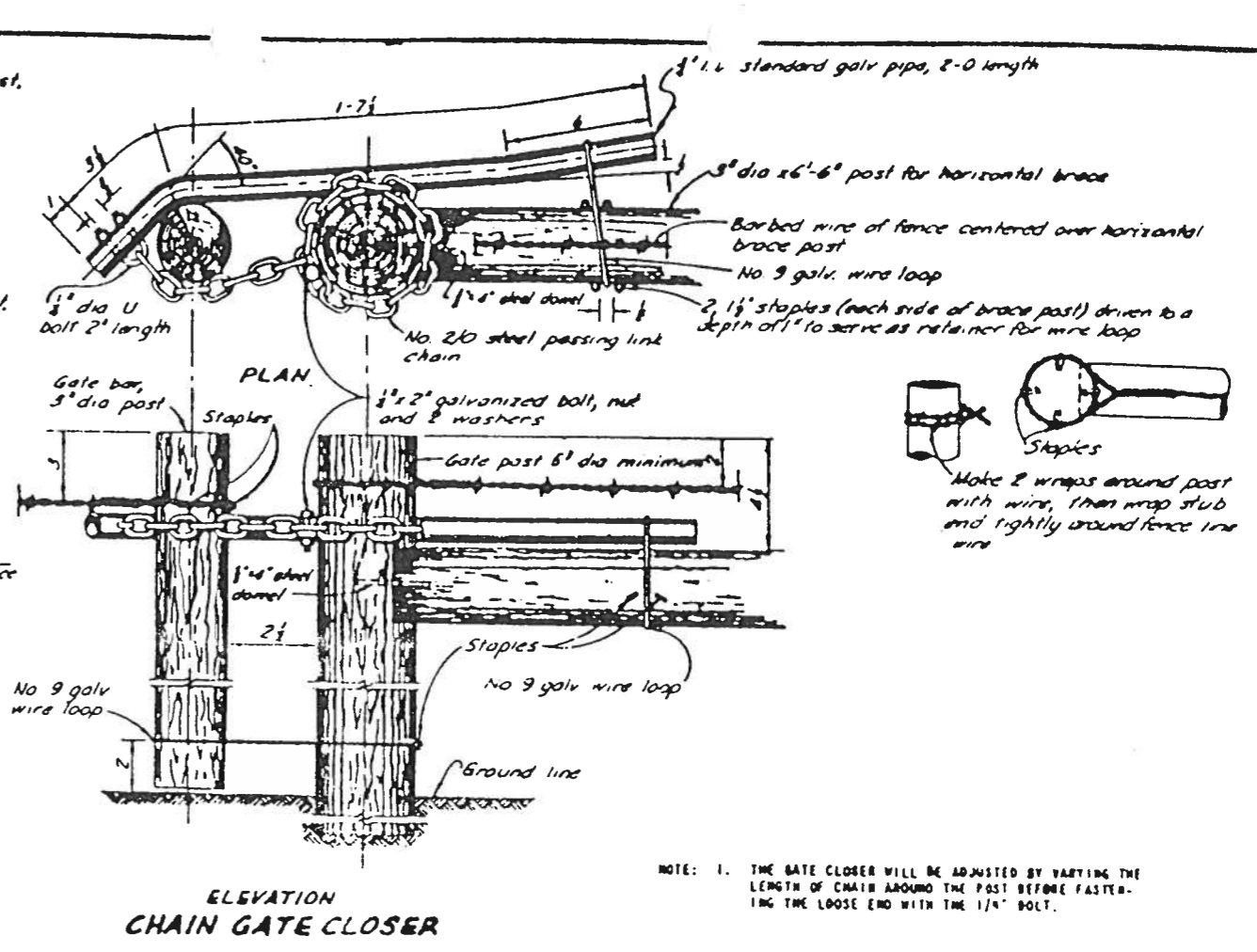
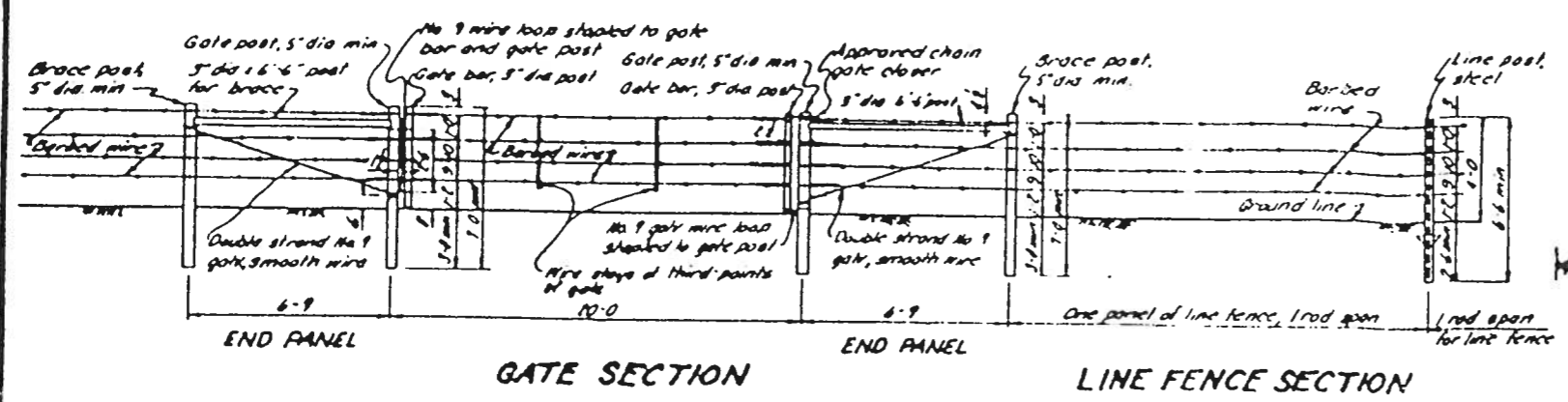
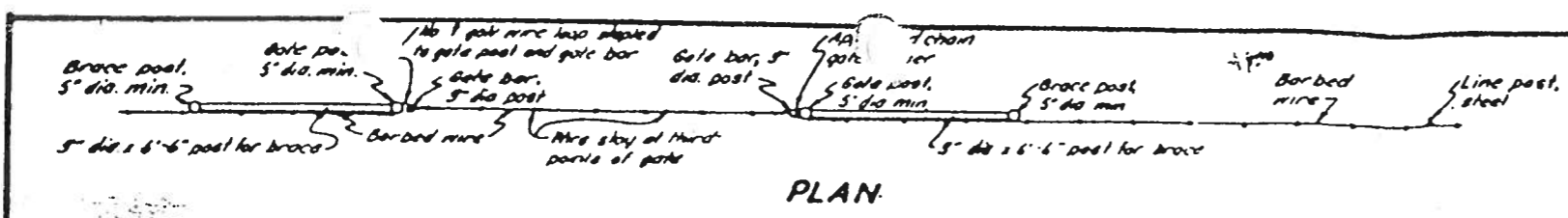
TABLE OF QUANTITIES

| ITEM | UNIT | QUANTITY |
|--|---------|----------|
| Concrete | Cu.Yd. | 1.10 |
| 3/2" dia. reinf. bars | Lin.Ft. | 117-3 |
| Structural excav. | Cu.Yd. | |
| 18" dia. C.M. pipe inlet, as per details | | |

Cooperator Name Trumbull
 Structure Name Trumbull
 County Adams
 USDA-SCS-LINCOLN, NEBR. 1960

U. S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE
 NEBRASKA

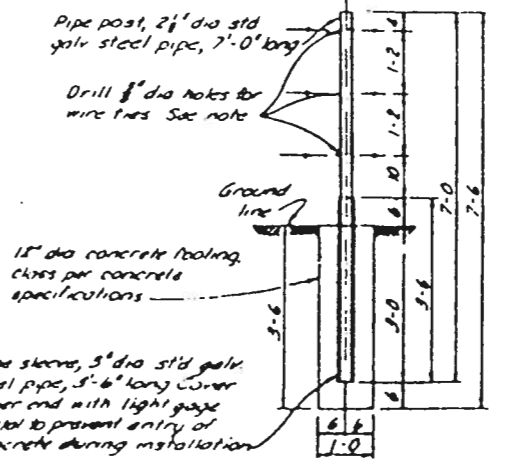
DRAWING NUMBER
 Sheet 3 of 4
 5. L-17, 040



- NOTES:**
1. NOTCH GATE POSTS, BRACE POSTS AND CORNER POSTS 1" FOR THE HORIZONTAL 3" DIA. BY 6'-4" WOOD POST.
 2. FASTEN EACH HORIZONTAL BRACE WITH 3/8" x 4" STEEL BOWEL, 2" INTO EACH POST.
 3. STAPLE NO. 9 CROSS-BRACE WIRES TO GATE, BRACE AND CORNER POSTS AT QUARTER POINTS OF POSTS.
 4. BARBED WIRE TO CONSIST OF TWO STRANDS OF 12 1/2 GAUGE GALVANIZED WIRE WITH 2-POINT, 14 GAUGE BARBS SPACED ON ABOUT 6" CENTERS.
 5. ALL LINE POSTS SHALL BE STEEL IEE TYPE, WITH TRIANGULAR SHAPED GROUND PRESSURE PLATE. POSTS SHALL BE PAINTED IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS. FASTEN BARBED WIRE TO LINEPOSTS WITH STANDARD CLAMPS.
 6. ALL CORNER, BRACE, GATE POSTS AND GATE BARS SHALL BE WOOD AND TREATED IN ACCORDANCE WITH CONSTRUCTION SPECIFICATIONS.

7. STAPLES TO BE NO. 9 GAUGE, 1 1/2" LONG (1" LONG FOR HARDWOODS). AT CORNER AND GATE POSTS, STAPLE EACH WIRE AT QUARTER POINTS OF POSTS. AT BRACE POSTS AND GATE BARS, DOUBLE-STAPLE EACH WIRE. DRIVE STAPLES DIAGONAL TO WOOD GRAIN AND AT A SLIGHTLY DOWNWARD ANGLE. WIRE SHALL BE WRAPPED AROUND AND TIED AT EACH GATE POST, CORNER POST, AND ONE BRACE POST IN LINE FENCE BRACING.
8. POSTS SHALL BE SET VERTICALLY AND IN ALIGNMENT PER PLANS.
9. WHEN WIRE SPLICE IS REQUIRED, USE WESTERN UNION SPLICE AS SHOWN BELOW.
10. WIRE GATE STAYS SHALL BE GALVANIZED.
11. WOOD POSTS, MIN. 3 1/2" DIA. AND 6'-4" LONG, MAY BE USED IN LIEU OF STEEL POSTS IN LINE FENCE.

- NOTES FOR STUB FENCE:**
1. BARBED WIRE TO CONSIST OF TWO STRANDS OF 12 1/2 GAUGE GALVANIZED WIRE WITH 2-POINT, 14 GAUGE, BARBS SPACED ON ABOUT 6" CENTERS.
 2. BARBED WIRES TO BE INSTALLED TO POSTS BY THREADING THROUGH 5/8" DIA. HOLES AND WRAPPING AROUND EACH POST. WIRES SHALL BE TIED INDEPENDENTLY TO AND AT EACH POST SO THAT WIRE STRAND IS NOT CONTINUOUS FOR MORE THAN ONE SPAN.



STRUCTURE REQUIREMENT TABLE

| | |
|--------------------------|----------------------------------|
| <input type="checkbox"/> | TYPE 4N FENCE WITH STUB FENCE |
| <input type="checkbox"/> | TYPE 4N FENCE WITHOUT STUB FENCE |

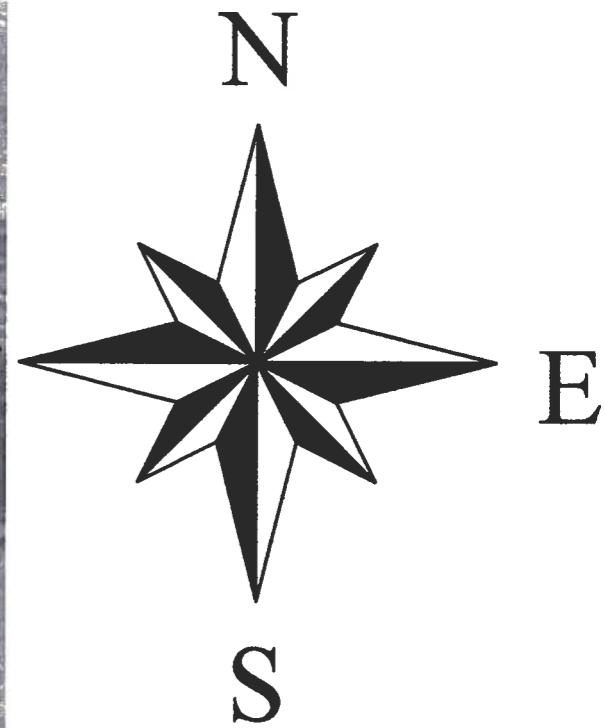
TYPE 4N FENCE DETAILS







TRUMBULL BASIN PROJECT
N1/2NE1/4 SECTION 15 T8N-R9W
ADAMS COUNTY, NE.

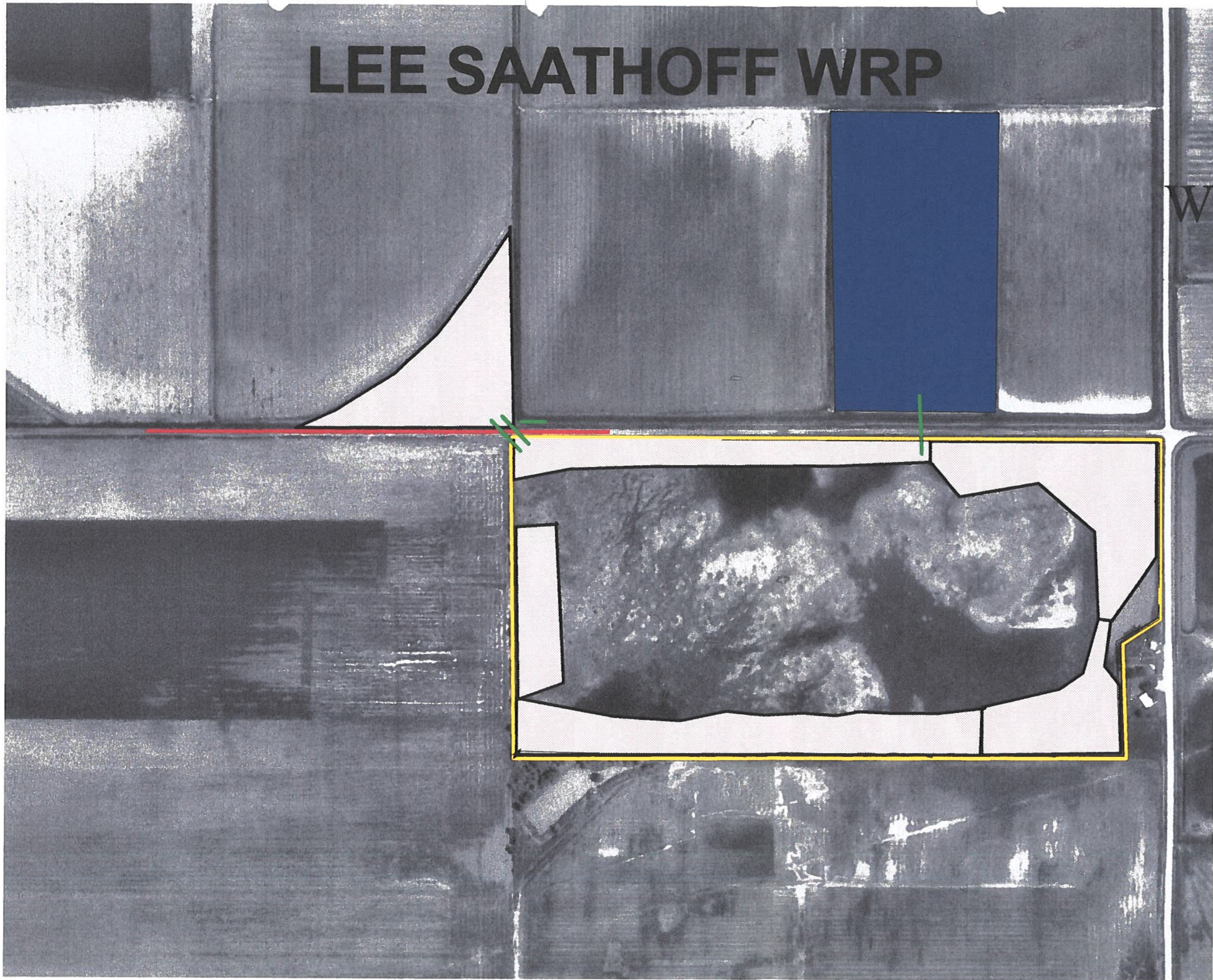
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Drawn by: _____ Date: _____
Approved by: _____ Date: _____

LEE SAATHOFF WRP



-  Culverts
-  Fence
-  Dike
-  Borrow area
-  Pit
-  Road



U.S. DEPARTMENT OF AGRICULTURE

OMB NO. 0578-0013

COMPATIBLE USE AUTHORIZATION

1. To be completed by NRCS; check appropriate box:

This transaction is for CCC

This transaction is for NRCS EWP

2. County: Adams

3. Contract NO.: _____

4. Agreement NO.: 6665269900BP7

5. Expiration Date: 12/31/2024

A. Person Responsible for Agreement Activities (Name and Address):

ELIZABETH KOHMETSCHER
2614 MERLE AVE, HASTINGS NE 68901

A 1. Person Responsible for Agreement

(Telephone Number): 402-462-8118

B. Purpose:

Grazing - Exp. Date 12/31/2024

528 - Prescribed Grazing

00N - Prescribed Grazing - Manage the harvest of vegetation with grazing and/or browsing animals with the intent to achieve specific ecological, economic and management objectives.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 74.4

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 528 | 00N | Tract Land Unit: W1 |

D. Beginning Condition of Site:

The uplands have been dominated by Kentucky bluegrass, foxtail barley and smooth brome, especially where the spoil pile is still present. There doesn't seem to be many forbs on the easement, this may be due to most of the easement being under water most of the year. In the wetland there is ironweed, cattails, reed canarygrass as well as sedges. Some of these items can be treated by grazing during effective times as spraying in the fall. We will watch it this year, and put it on the list for spraying in the fall.

E. Statement of Affect and Compatibility:

An adaptive prescribed grazing plan will be implemented to benefit long term wetland functions, enhance plant communities, decrease stagnant vegetation conditions suppress woody invaders and enhance hydrological functions within wetlands on the WRP easement. Grazing wetland will reduce the vegetative height to better facilitate low lying areas for migrating waterfowl and shore birds. Noxious weed control is required by state law.

Rotational grazing is beneficial to the habitat and wildlife by increasing the diversity of native grasses and forbs and creating a diversity of vegetative stands. Grazing the same time every year will decrease diversity over time due to selective grazing. Intense grazing at green up or fall will improve the habitat by targeting the undesirable species such as river bulrush, reed canary grass, and cattails, and open the wetland for migratory waterfowl. It also decreased the presence of undesirable cool season grasses (downy brome, Kentucky bluegrass, and smooth brome) and increase diversity of native grasses and forbs. A temporary single wire electric fence set at half power will have no impact on habitat. This will allow for site to be rotationally grazed. Fencing out the wetlands during peak times (cool seasons) and grazing them while they are still in the growing stages will benefit the habitat that is available in the area.

Livestock Watering Facility - The livestock watering facility promotes desirable water consumption and efficient grazing on the site by providing a reliable source of water for cattle. Grazing will reduce the amount of undesirable plant species, while promoting desirable plants. Reducing undesirable species will promote quality wetland habitat and improve wetland functions and values.

Fence - A perimeter fence will allow the site to be grazed.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

Prescribed Grazing:

- Landowner will follow the NRCS grazing plan.
 - This site will be grazed by 15 head of cattle between the two adjoining easements see the list below for the schedule of pasture rotations, along with the attached map. Both pastures will be grazed during the year to eliminate reed canary grass and other undesirable grasses.
- The landowner can pick any ONE of the following section of dates to graze the cattle in a year, ensuring that the same field is not grazed more than thirty days until the next grazing year.

- April 15th - May 15th
- May 1st - June 1st
- May 15th - June 15th
- September 1st - October 1st
- September 15th - October 15th
- October 1st - November 1st

- The WRP easement will be monitored by the landowner to ensure the site is not over grazed which would reduce the biodiversity that is planted on the easement. The minimum height that the key forage species (warm season grasses and forbs) should be grazed to is eight (8) inches. Livestock will be removed when the minimum grazing height has been reached, which may be before the end of the grazing window selected in item 2 above. The landowner will be required to re-seed and establish grasses at their own expense if grasses are over utilized.
- During drought years, the stocking rate must be reduced by 25%. Drought is defined as one or more months at a D2 (Severe Drought) or higher drought rating by the United States Drought Monitor. At a D1 Nebraska experiences stunted growth within the pasture and crop fields. Building a forage bank will benefit the easement during these times.
- Any deviations from the grazing plan will require the concurrence of the NRCS and will be documented in the grazing plan.
- Annual grazing is not guaranteed. NRCS retains the right to alter annual grazing strategies to adjust to current ecological site condition and desired management results.

7. Grazing may not occur on the same acres as haying in the same year.
 8. The easement will be monitored by the landowner and NRCS staff.
 9. This practice is scheduled to begin in 2024 after approval by the state.
- Grazing is NOT permitted under this CUA. Adequate regrowth before the next grazing season.

Fence: A perimeter fence will allow the site to be grazed.

Livestock Watering Facilities: There is a solar well and tanks that will always allow the cattle water access on the easements.

COMPATIBLE USE AUTHORIZATION

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G. Recommended (NRCS Signature): Kaycee Clair Zuschlag G 1. Date: 3/28/2024

G 2. Title: Area Easement Specialist

H. Landowner or Representative (Signature): Elizabeth Heimescher H 1. Date: 4/10/2024

H 2. Title: Land owner

I. Approved (NRCS Signature): -- I 1. Date: --

I 2. Title: _____

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

COMPATIBLE USE AUTHORIZATION

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G. Recommended (NRCS Signature): Kaycee Clair Zuschlag G 1. Date: 3/28/2024

G 2. Title: Area Easement Specialist

H. Landowner or Representative (Signature): _____ H 1. Date _____

H 2. Title: _____

I. Approved (NRCS Signature): Melissa Ann Baier I 1. Date: 4/15/2024

I 2. Title: ASTC-Water Resources and Easements

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

U.S. DEPARTMENT OF AGRICULTURE

OMB NO. 0578-0013

COMPATIBLE USE AUTHORIZATION

OMB DISCLOSURE STATEMENT

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 40 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

NONDISCRIMINATION STATEMENT

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PRIVACY ACT STATEMENT

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 522a). Furnishing this information is voluntary; however, failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other State or Federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

COMPATIBLE USE AUTHORIZATION

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UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|--|--|
| County: Adams | Expiration Date: 12-31-2028 |
| Landowner/Rep (Name & Address): Beth Kohmetscher 2614 Merle Ave. Hastings, NE 68901 402-462-8118 | Contract No: 66-6526-9-144, 6665269900BP7 |
| | Authorization No: |
| Purpose: To schedule for chemical and mechanical control of undesirable species. | |
| Land Description (Legal description and attached copy of map): N ½ NE ¼ 15-8-9W | |
| Beginning Condition of Site: 8/15/18: Overall, the site is in fair condition. Reed canarygrass is present (~17% of the site), mainly along the north and east road ditches. Smooth brome is in the upland and high spot in the middle of the wetland (~8% of the site). Trees are scattered across the site, but mainly on the high spot in the middle of the wetland and NW corner (~1%). A few cattails exist along the north end of the site, but are unlikely to spread far (< 1%). The remainder of the site is a mix of good moist soil plants such as spikerushes, sumpweed, smartweeds, sedges, and ragweed. | |
| State of Effect & Compatibility: Chemical and mechanical control of undesirable plant species will reduce the presence of invasive and monoculture forming species, the control of which can increase plant diversity, annual species production, and open water area. Left uncontrolled, undesirable species will continue to spread across the site, decreasing habitat quality for native wildlife and plants. | |

**UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service**

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Special Conditions (Specifications and other details of permitted activities. Attach copy of guidelines):

Chemical and Mechanical Control of Undesirable Species (noxious weeds, trees, cattails, bulrush, invasive cool season grasses):

1. This CUA does not authorize the landowner to treat weeds that are not noxious weeds (state defined) or not considered undesirable by NRCS. Noxious weeds are required by state law and the warranty easement deed to be controlled by the landowner.
 - a. State listed noxious weeds are Canada thistle, musk thistle, plumeless thistle, Japanese and giant knotweed, leafy spurge, the non-native bio-type of phragmites, purple loosestrife, saltcedar, spotted and diffuse knapweed, and sericea lespedeza.
 - b. Species considered undesirable by NRCS because of their potential for becoming invasive and dominant are reed canarygrass, cattail, river bulrush, brome species, and trees other than American plum.
 - c. The landowner is also responsible for checking with their county weed authority for county listed noxious weeds.
2. Many species deemed weedy in agricultural land, such as annual sunflowers, are beneficial to wildlife and are not authorized for chemical weed control in this CUA.
3. Spot spraying selective herbicides may be used to control noxious weeds and other plants that are undesirable to NRCS. Spot spraying is authorized whenever an undesirable plant species is present. Spot spraying may occur any year of this CUA as long as the target species is still present.
4. Broadcast spraying may be used when one or more undesirable plant species combined cover at least 25% of the spray area. Broadcast spraying may occur any year of this CUA as long as the target species still cover at least 25% of the spray area.
5. Herbicide selection shall be based on the targeted species with consideration of protecting native grasses, forbs, sedges, and other desirable plants species. Timing of herbicide application will be conducted to allow for the successful control of targeted species while limiting impact to non-target species.
6. Herbicides will be applied according to the label. The landowner is responsible for following all label requirements on herbicides, including whether the chemical may be sprayed over water, wetland, pasture, etc.
7. Stumps of deciduous trees must be treated with an appropriate herbicide according to the product label within 15 minutes of being cut.
8. Mechanical woody species removal will not be conducted May 1 – July 15 unless a nesting survey has been conducted by a trained professional according to USFWS protocol.
9. These practices will start in 2020.

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

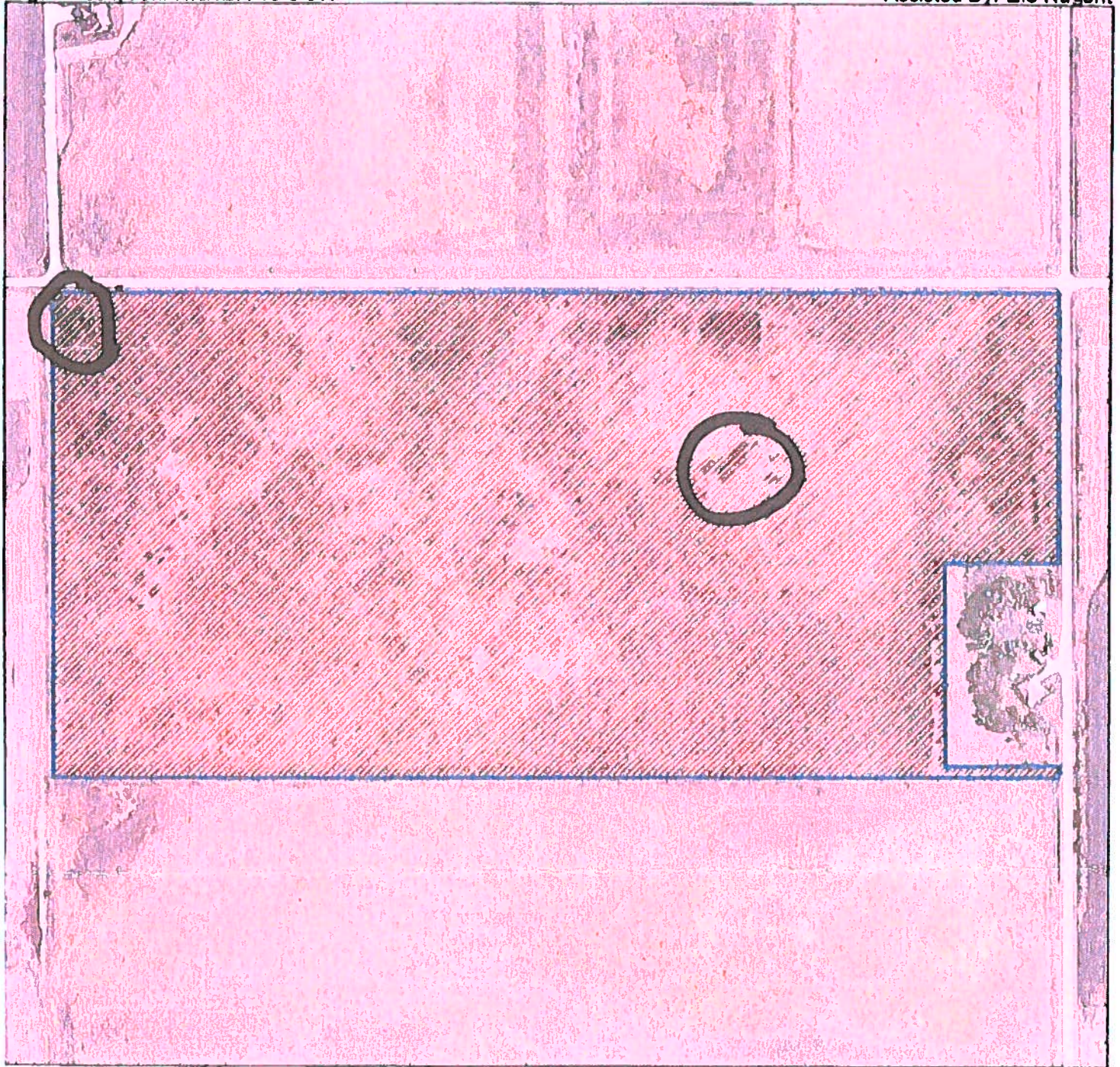
| | | | |
|--|---|-------|------------------|
| Recommended (NRCS Signature): | <i>Michael Pomy</i> | Date: | <i>12-2-2019</i> |
| Title: | <i>Resource Conservationist</i> | | |
| Landowner or Representative (Signature): | <i>Billy Andrew Silve</i> | Date: | <i>1-22-2020</i> |
| Approved (NRCS Signature): | BRADLEY SONCKSEN | Date: | |
| | <small>Digitally signed by BRADLEY SONCKSEN Date: 2020.02.21 16:21:06 -06'00'</small> | | |
| Title: | ASTC/Programs | | |
| The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above. | | | |

* I have compiled 2 spots where I do not want trees cut or sprayed. ok

CUA - Undesirable Species Control

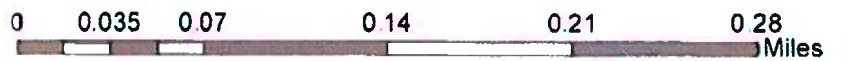
Customer(s): Beth Kohmetscher
Approximate Acres: 74.4
Legal Description: N½NE¼ 15-8-9W

Date: 11/27/19
Field Office: Grand Island
Agency: CPNRD
Assisted By: Ele Nugent



Legend

-  WRP Boundary
-  Undesirable Species Control



COMPATIBLE USE AUTHORIZATION

1. To be completed by NRCS; check appropriate box:



This transaction is for CCC



This transaction is for NRCS EWP

2. County: Adams

3. Contract NO.: _____

4. Agreement NO.: 6665269900BP7

5. Expiration Date: 12/31/2024

A. Person Responsible for Agreement Activities (Name and Address):

ELIZABETH KOHMETSCHER
2614 MERLE AVE, HASTINGS NE 68901

A 1. Person Responsible for Agreement

(Telephone Number): 402-462-8118

B. Purpose:

Grazing - Exp. Date 12/31/2024

528 - Prescribed Grazing

00N - Prescribed Grazing - Manage the harvest of vegetation with grazing and/or browsing animals with the intent to achieve specific ecological, economic and management objectives.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 74.4

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 528 | 00N | Tract Land Unit: W1 |

D. Beginning Condition of Site:

The uplands have been dominated by Kentucky bluegrass, foxtail barley and smooth brome, especially where the spoil pile is still present. There doesn't seem to be many forbs on the easement, this may be due to most of the easement being under water most of the year. In the wetland there is ironweed, cattails, reed canarygrass as well as sedges. Some of these items can be treated by grazing during effective times as spraying in the fall. We will watch it this year, and put it on the list for spraying in the fall.

E. Statement of Affect and Compatibility:

An adaptive prescribed grazing plan will be implemented to benefit long term wetland functions, enhance plant communities, decrease stagnant vegetation conditions suppress woody invaders and enhance hydrological functions within wetlands on the WRP easement. Grazing wetland will reduce the vegetative height to better facilitate low lying areas for migrating waterfowl and shore birds. Noxious weed control is required by state law.

Rotational grazing is beneficial to the habitat and wildlife by increasing the diversity of native grasses and forbs and creating a diversity of vegetative stands. Grazing the same time every year will decrease diversity over time due to selective grazing. Intense grazing at green up or fall will improve the habitat by targeting the undesirable species such as river bulrush, reed canary grass, and cattails, and open the wetland for migratory waterfowl. It also decreased the presence of undesirable cool season grasses (downy brome, Kentucky bluegrass, and smooth brome) and increase diversity of native grasses and forbs. A temporary single wire electric fence set at half power will have no impact on habitat. This will allow for site to be rotationally grazed. Fencing out the wetlands during peak times (cool seasons) and grazing them while they are still in the growing stages will benefit the habitat that is available in the area.

Livestock Watering Facility - The livestock watering facility promotes desirable water consumption and efficient grazing on the site by providing a reliable source of water for cattle. Grazing will reduce the amount of undesirable plant species, while promoting desirable plants. Reducing undesirable species will promote quality wetland habitat and improve wetland functions and values.

Fence - A perimeter fence will allow the site to be grazed.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

Prescribed Grazing:

1. Landowner will follow the NRCS grazing plan.
 - a. This site will be grazed by 15 head of cattle between the two adjoining easements see the list below for the schedule of pasture rotations, along with the attached map. Both pastures will be grazed during the year to eliminate reed canary grass and other undesirable grasses.
2. The landowner can pick any ONE of the following section of dates to graze the cattle in a year, ensuring that the same field is not grazed more than **thirty** days until the next grazing year.

April 15th – May 15th
 May 1st – June 1st
 May 15th - June 15th
 September 1st – October 1st
 September 15th – October 15th
 October 1st – November 1st

3. The WRP easement will be monitored by the landowner to ensure the site is not over grazed which would reduce the biodiversity that is planted on the easement. The minimum height that the key forage species (warm season grasses and forbs) should be grazed to is eight (8) inches. Livestock will be removed when the minimum grazing height has been reached, which may be before the end of the grazing window selected in item 2 above. The landowner will be required to re-seed and establish grasses at their own expense if grasses are over utilized.
4. During drought years, the stocking rate must be reduced by 25%. Drought is defined as one or more months at a D2 (Severe Drought) or higher drought rating by the United States Drought Monitor. At a D1 Nebraska experiences stunted growth within the pasture and crop fields. Building a forage bank will benefit the easement during these times.
5. Any deviations from the grazing plan will require the concurrence of the NRCS and will be documented in the grazing plan.
6. Annual grazing is not guaranteed. NRCS retains the right to alter annual grazing strategies to adjust to current ecological site condition and desired management results.

7. Grazing may not occur on the same acres as haying in the same year. Haying is NOT permitted under this CUA.
8. The easement will be monitored by the landowner and NRCS staff for adequate regrowth before the next grazing season.
9. This practice is scheduled to begin in 2024 after approval by the state office.

Fence: A perimeter fence will allow the site to be grazed.

Livestock Watering Facilities: There is a solar well and tanks that will always allow the cattle water access on the easements.

COMPATIBLE USE AUTHORIZATION

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G. Recommended (NRCS Signature): Kaycee Clair Zuschlag G 1. Date: 3/28/2024

G 2. Title: Area Easement Specialist

H. Landowner or Representative (Signature): Elizabeth Lehmescher H 1. Date: 4/10/2024

H 2. Title: Land owner

I. Approved (NRCS Signature): -- I 1. Date: --

I 2. Title: _____

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G 2. Title: Area Easement Specialist

H. Landowner or Representative (Signature): _____ H 1. Date _____

H 2. Title: _____

I. Approved (NRCS Signature): Melissa Ann Baier I 1. Date: 4/15/2024

I 2. Title: ASTC-Water Resources and Easements

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

COMPATIBLE USE AUTHORIZATION

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K R P P I

NEBRASKA WETLAND RESERVE PROGRAM

PRELIMINARY RESTORATION PLAN**

Landowner: Valerie Phelps
 Address: Lincoln, NE
 WRP Application Type WRP Perpetual

County: Adams
 Tract #: 6013
 Legal: SE 4 10-8-9
 Site Ac: 152
 Date: 2/26/02

LANDOWNER OBJECTIVES:

Develop wetland habitat for waterfowl + upland habitat for game birds

TEAM OBJECTIVES:

Restore this part of the wetland as part of the overall restoration of "Trumbull Basin."

| FIELD # | PRACTICE | QUANTITY | EST. COST |
|---------|---|-----------|-----------|
| | Excavation 1.00/cy | 32,000 cy | \$32,000 |
| | - removal of Ring Dune / filling pit (1000) removal of lateral | 8000 cy | 8,000 |
| | (Upland) crossland Reseeding 100/acre * | 40Ac | 4,000 |
| | | | |
| | | | |
| | Water control structure (2 gates) (slide gates) | 2 | \$2,000 |
| | | | \$46,000 |

TOTAL ESTIMATED RESTORATION COST \$

NOTES:

* RWBJV will contribute another \$100/acre toward cost of establishing
 50 species grass/forb mix. on 40 Acres.

INITIAL & DATE LANDOWNER: 4/9/02 NRCS: K02 FWS/NG&P: _____

** Attach photo with easement boundaries and practice locations identified.

NOTE: Review obligations and explanation of compatible uses on reverse side of this form with Landowner.

NEBRASKA WETLAND RESERVE PROGRAM

PRELIMINARY RESTORATION PLAN**

Landowner: Wetland Renovations LLC
 Address: _____
 WRP Application Type Perpetual
Easement

County: Adams
 Tract #: 6013
 Legal: SE⁴ 10-8-9
 Site Ac: 152
 Date: 8-6-02

LANDOWNER OBJECTIVES:

Develop wetland habitat for waterfowl and upland habitat for game birds

TEAM OBJECTIVES:

Restore this part of the wetland as part of the overall restoration of "Trumbull Basin"

| FIELD # | PRACTICE | QUANTITY | EST. COST |
|---------|--|-------------|-----------|
| | Excavation of Sediment- Pit Dikes | 24,000 c.y. | 24240 |
| | Remove Road dike S. & E. sides | 15,000 c.y. | 15150 |
| | Remove twin culverts @ SW corner | lump sum | 2500 |
| | Provide 4- 36" squash 40' long culverts | 160 ft | 4000 * |
| | Remove water control culvert from Hill WRP | lump sum | 2500 |
| | Install 2- 36" squash 40' long culverts | lump sum | 2500 |
| | Road gravel | 600 cy | 6000 |
| | Install equalizer culvert to Pavaka | lump sum | 2500 |
| | | | |
| | | | |

Paid by RWBJ

TOTAL ESTIMATED RESTORATION COST \$ 55390

NOTES: *Total estimated restoration cost above does not include the cost of 160 ft of 36" squash culverts. These are to be provided at no cost to USDA by partners.*

INITIAL & DATE LANDOWNER: _____ NRCS: Ko J 8/7/02 FWS/NG&P: _____

** Attach photo with easement boundaries and practice locations identified.

NOTE: Review obligations and explanation of compatible uses on reverse side of this form with Landowner.

*** ESTIMATED COST
OF APPLYING CONSERVATION PRACTICES**

| | |
|--|------------------------------------|
| LANDOWNER <u>WETLAND RENOVATION, LLC</u> | LEGAL _____ |
| FIELD # (if available) _____ | BY <u>JEMyers</u> DATE <u>8/02</u> |

| PRACTICE | *UNIT COST | QUANTITY | *TOTAL COST |
|--|------------------|------------------|--|
| Excavation of Sediment / Pit dikes | 1.01 | 24000 | 24240.00 - |
| ROAD DIKE removal | 1.01 | 15000 | 15150.00 - |
| Removal of twin culverts | Lump Sum | | 2500.00 - |
| Culverts 2 @ 40' ea 36" squash | 25.00 | 80 LF | 2000.00 * In Kind match from RWSV |
| Installation of culverts @ West Driveway | Lump Sum | | 2500.00 - |
| Removal of Culvert from Hill to Rose Pit | Lump Sum | | 2500.00 - |
| 2 @ 40' ea 24" culverts | 25.00 | 80 LF | 2000.00 * In Kind from RWSV |
| Re-spread gravel | 600 | 10,00 | 6000.00 - |

*** GRAND TOTAL ESTIMATE ----> Cont.**

* These "Estimated" or Average Costs are derived from billings submitted by contractors, for work performed from the previous year. These billings generally show a wide range of Unit Costs because of:

1. The size of the job
2. The difficulty of the job
3. The efficiency of the contractor, and
4. The quality of the work performed

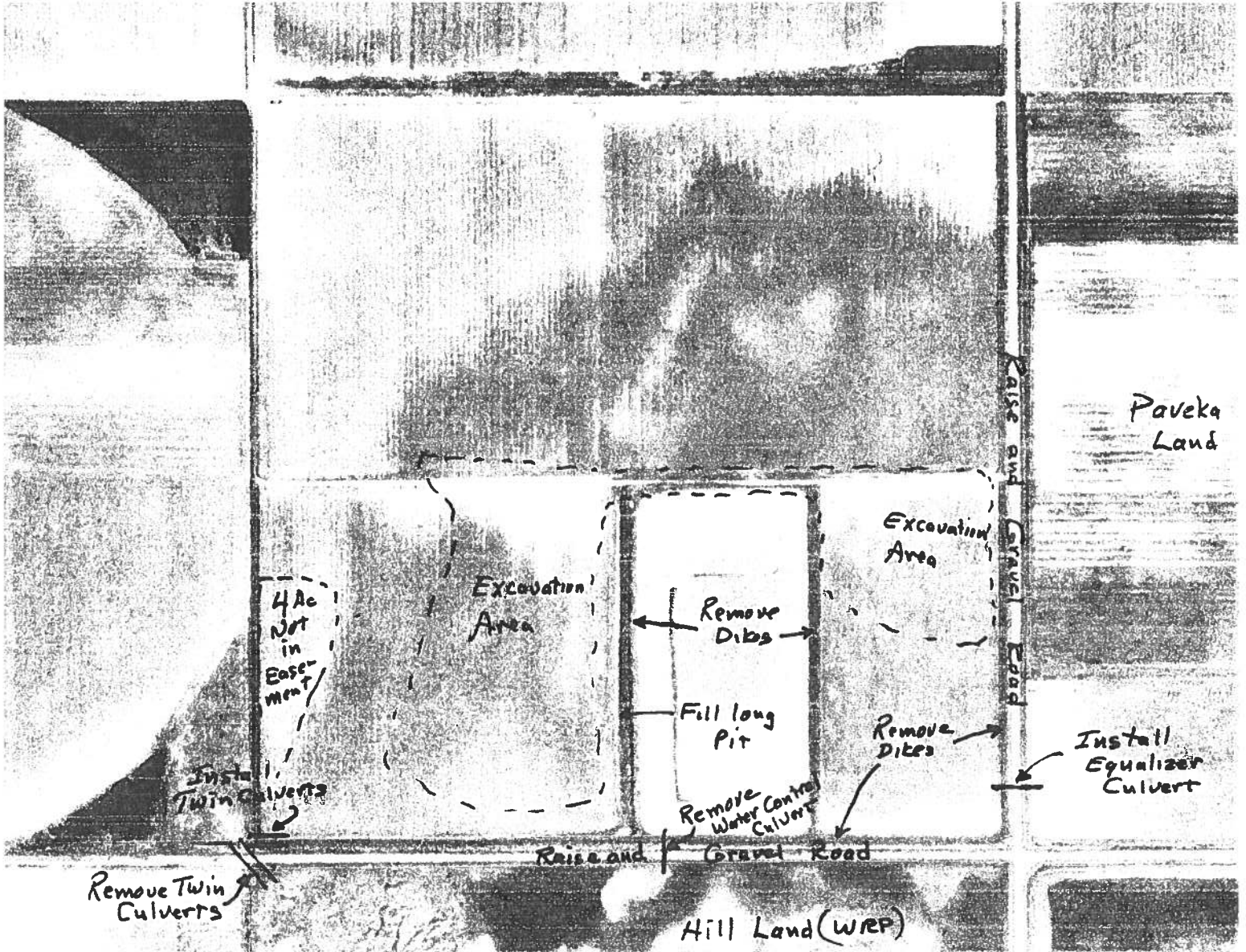
REMEMBER THAT THE MOST ACCURATE WAY OF DETERMINING THE ACTUAL COST OF THE WORK IS TO GET A QUOTE FROM THE CONTRACTOR OF YOUR CHOICE.

* may not be needed.

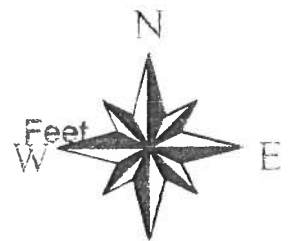
gravel

On Rose's
when are the 2 - 36"
Squash and where
are the 2 - 24"
culverts?

Wetland Reserve Program Wetland Renovations, LLC Adams County



SE 1/4 10-8-9





HASTINGS SERVICE CENTER
 2727 W 2ND ST
 HASTINGS, NE 68901-4608
 (402) 463-6771

SHANDA WEBER
 RESOURCE CONSERVATIONIST

Conservation Plan

WETLAND RENOVATIONS LLC
 2215 W 12TH ST
 HASTINGS, NE 68901

OBJECTIVE(S)

To restore wetland.

Wildlife

Tract: 7345

Forage Harvest Management

Forage can not be harvested on Wetland Reserve Program lands (as shown on attached plan map), without a signed compatible use authorization from NRCS.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|-----------|
| 1a | 153.5 ac | 3 | 2004 | 153.5 ac | 8/22/2005 |
| Total: | 134.3 ac | | | 134.3 ac | |

Pest Management

Weeds and other pests that inhibit stand establishment will be controlled. Noxious weeds must be controlled according to State Noxious Weed Law. Refer to Nebraska Conservation Planning Sheet 19 (WETLAND RESERVE PROGRAM COVER MAINTENANCE REQUIREMENTS/OPTI

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|-----------|
| 1a | 153.5 ac | 3 | 2004 | 153.5 ac | 8/22/2005 |
| Total: | 134.3 ac | | | 134.3 ac | |

Prescribed Burning

Prescribed burning will be done to increase health and vigor of desirable vegetation and to control undesirable vegetation when determined needed by NRCS. All burning will be in accordance with state and local laws and ordinances. Refer to the prescribe

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|-----------|
| 1a | 153.5 ac | 4 | 2010 | 153.5 ac | 8/22/2005 |
| Total: | 134.3 ac | | | 134.3 ac | |

Prescribed Grazing

Livestock grazing is not allowed on Wetland Reserve Program lands (as shown on attached plan map), without a signed compatible use authorization from NRCS.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|-----------|
| 1a | 153.5 ac | 3 | 2004 | 153.5 ac | 8/22/2005 |
| Total: | 134.3 ac | | | 134.3 ac | |

Restoration and Management of Declining

Rare and declining habitat will be established/maintained according to specifications obtained prior to establishment. Refer to NE-CPA-8 (JOB SHEET FOR GRASS SEEDING) for specifications.

Maintenance management of the desired vegetative cover will be comp

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|-----------|
| 1a | 47 ac | 4 | 2006 | 47 ac | 4/14/2006 |
| Total: | 47 ac | | | 47 ac | |

Upland Wildlife Habitat Management

Wildlife habitat will be maintained to benefit desired types of wildlife according to WRP cover management requirements. Refer to WRP restoration and management plan.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|-----------|
| 1a | 47 ac | 11 | 2004 | 47 ac | 8/22/2005 |
| Total: | 47 ac | | | 47 ac | |

Use Exclusion

Livestock will be excluded from all land in WRP according to contract requirements.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|-----------|
| 1a | 153.5 ac | 3 | 2004 | 153.5 ac | 8/22/2005 |
| Total: | 134.3 ac | | | 134.3 ac | |

Wetland Restoration

Wetlands will be restored (approximately where shown on the plan map). Restoration specifications will be obtained prior to any restoration activities.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|-----------|
| 1b | 19.2 ac | 4 | 2004 | 19.2 ac | 8/22/2005 |
| Total: | 19.2 ac | | | 19.2 ac | |

Wetland Restoration

Wetlands will be restored (approximately where shown on the plan map). Wetland Restoration activities will be completed by NRCS and/or its agents. Specifications will be obtained from NRCS prior to any restoration activities.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|-----------|
| 1a | 112.5 ac | 4 | 2005 | 112.5 ac | 8/22/2005 |
| 1a | 134.3 ac | 7 | 2009 | 134.3 ac | 7/21/2009 |
| 1b | 19.2 ac | 7 | 2009 | 19.2 ac | 7/21/2009 |
| Total: | 153.5 ac | | | 153.5 ac | |

Wetland Wildlife Habitat Management

Retain, create, or manage wetland habitat for water fowl, furbearers, or other wildlife.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|-----------|
| 1b | 19.2 ac | 4 | 2004 | 19.2 ac | 8/22/2005 |
| Total: | 19.2 ac | | | 19.2 ac | |

Wetland Wildlife Habitat Management

Wildlife habitat will be established or maintained to benefit waterfowl and other wildlife according to WRP cover management requirements. Refer to WRP restoration and management plan.

| Field | Planned Amount | Month | Year | Applied Amount | Date |
|--------|----------------|-------|------|----------------|-----------|
| 1a | 112.5 ac | 11 | 2004 | 112.5 ac | 8/22/2005 |
| Total: | 112.5 ac | | | 112.5 ac | |

CERTIFICATION OF PARTICIPANTS

WETLAND RENOVATIONS LLC DATE

CERTIFICATION OF:

RESOURCE CONSERVATIONIST

SHANDA WEBER DATE

CONSERVATION DISTRICT

UPPER BIG BLUE NRD DATE

PUBLIC BURDEN STATEMENT

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection information.

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The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

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CONSTRUCTION DATA

| | | |
|------------------------|-----------|------|
| Layout By: | | DATE |
| Construction Check By: | | |
| Contractor: | | |
| Constructed Cost: | | |
| Cost Share Agency: | USDA NRCS | |

WETLAND RENOVATION LLC

WETLAND RESTORATION

ADAMS County, Nebraska

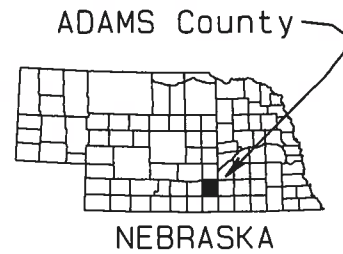
SPONSORED BY: WETLAND RESERVE PROGRAM

DESIGNED BY: NATURAL RESOURCES CONSERVATION SERVICE

NELSON, NEBRASKA



NRCS



PROJECT LOCATION

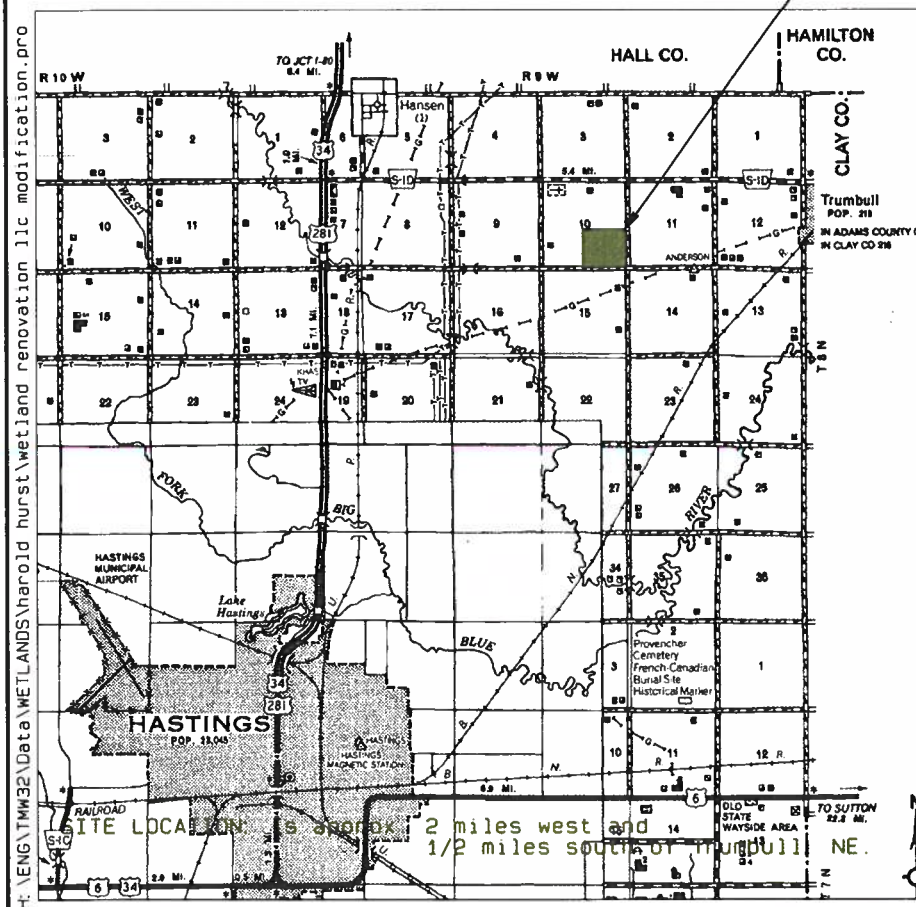


TABLE OF QUANTITIES

| ITEM | UNIT | QUANTITIES | AS-BUILT |
|------------------------------|------|------------|----------|
| Removal of Water | MG | NA | |
| Excavation* | | | |
| AREA 1 Wetland Ren. (4.0 Ac) | CY | 7,130 | |
| AREA 2 Wetland Ren. (1.0 Ac) | CY | 912 | |
| TOTAL | CY | 8042 | |

SHEET INDEX

| SHEET NO. | SHEET TITLE |
|-----------|----------------------------------|
| 1 | COVER SHEET |
| 2 | DATA SHEET |
| 3 | PLAN VIEW WETLAND RENOVATION LLC |
| 4 | TOPOGRAPHIC MAP OF BASIN |

MG = 1,000 Gal. of Water
 * Approximate quantities for BID PREP. ONLY
 Project to be paid on a LUMP SUM BASIS.

Design By: J.E. MYERS 10/07
 Checked By: J. ROBISON 10/07

SPECIFICATION AND DRAWINGS
 APPROVED FOR CONSTRUCTION

Signature: _____ TITLE
 APPROVED BY: T.HAAKENSTAD

THIS PROJECT IS JOB CLASS V

Section 11 T8North, R9West

SHEET NO. 1
 TOTAL SHEETS 4 Pages

CONSTRUCTION NOTES

- 1) The contractor will inspect the construction area for the presence of utility facilities both surface and subsurface, and will notify the Nebraska One Call System (<http://www.ne-diggers.com>) before construction activities begin. The contractor will use extra safety precautions when working near or around pipelines, power lines, power poles, underground cables, or other utility installations. DIGGERS HOTLINE: 1-800-331-5666
- 2) The CONTRACTOR shall remove all signs of temporary construction facilities, such as work areas, stockpiles, and other vestiges of construction prior to final acceptance of work. The disturbed areas shall be graded and filled as specified. Any off-site damage attributable to the CONTRACTOR'S conduct, shall be repaired at no additional cost to the owner.
- 3) Clearing areas, clearing and grubbing areas, and construction work limits are generally bounded by the slope stakes on the excavation areas. Exact location of the work limits will be staked by the NRCS before construction begins.
- 4) Where excavated material is placed immediately in the waste disposal area's, certification for payment quantities shall include only one item.
- 5) Disposal areas shall be stockpiled with a maximum pile height of 1 feet. The disposal area shall be shaped and smoothed to allow for grass seeding following construction. The area shall be free from small water puddles and graded to drain towards the wetland.
- 6) The contractor shall be responsible for furnishing, placing, and maintaining signs, barricades, and danger signals deemed necessary by the Nebraska Dept. of Roads and/or the County Road Department.
- 7) Fences within the construction work limits will be removed by contractor/others before construction begins.
- 8) Borrow (sediment removal) area limits will be staked by the NRCS inspector at the time of construction. All finished borrow (sediment removal) slopes will be a minimum of 6:1.
- 9) Excavation tolerances on all sediment removal and berm removal are to grade or -0.2 feet of elevation shown on drawings.
- 10) Tree removal shall consist of removing trees and root ball and removing the tree and root ball to the area staked and marked as tree disposal area.
- 11) It is the contractors responsibility to remove weeds and vegetation from the excavation sites. The vegetation on the excavation sites shall be burned or disked prior to NRCS staking the sites. If the contractor chooses to burn the vegetation, they shall get all necessary permits and burn according to all local laws and regulations. Vegetation removal is subsidiary to excavation for payments.

CONSTRUCTION SPECIFICATIONS

| Nebraska Construction and Materials Specifications | |
|--|---|
| NE- Series, Check the ones that apply | |
| 1 | Site Preparation & Structure Removal |
| 6 | Seeding and Mulching for Protective Cover |
| 8 | Site Mobilization and Demobilization |
| 10 | Water Applied |
| 11 | Removal of Water |
| 21 | Excavation |
| 23 | Earthfill |
| 24 | Drainfill |
| 32 | Concrete for Minor Structures |
| 51 | Corrugated Metal Pipe Structures |
| 81 | Metal Fabrication and Installation |
| 83 | Timber Fabrication and Installation |
| 92 | Fencing |
| 208 | Water Control Valves |
| 214 | Cathodic Protection |
| 220 | Plastic Pipe Conduits |

EARTHWORK QUANTITIES COMPUTATION METHOD

- MOPOND, Ver. 1.0
- TERRAMODEL, Ver. 10.40
- OHIO
- MANUALLY PLOTTED, DEA
- OTHER: _____

HYDROLOGIC DATA

| | |
|--------------------------------|-------|
| DRAINAGE AREA, Acres | 2219 |
| WATERSHED SLOPE, % | 0.5 |
| WATERSHED LENGTH, Feet | 12500 |
| RCN | 77 |
| TIME OF CONCENTRATION, Hrs | 6.19 |
| 10yr-24hr Storm Runoff (ac-ft) | 364.3 |
| 25yr-24hr Storm Runoff (ac-ft) | 469.7 |

LAYOUT POINT DATA

| POINT NUMBER | NORTH | EAST | Elev. | Location |
|--------------|--------------|-------------|--------|-----------|
| 56 | 14, 772, 598 | 1, 829, 478 | 1894.0 | cox excav |
| 62 | 14, 772, 592 | 1, 829, 401 | 1894.0 | cox excav |
| 72 | 14, 772, 600 | 1, 829, 624 | 1894.0 | cox excav |
| 75 | 14, 722, 601 | 1, 829, 770 | 1894.0 | cox excav |
| 80 | 14, 722, 600 | 1, 829, 903 | 1894.0 | cox excav |
| 87 | 14, 722, 532 | 1, 829, 924 | 1894.7 | cox excav |
| 91 | 14, 722, 437 | 1, 829, 909 | 1895.0 | cox excav |
| 98 | 14, 722, 356 | 1, 829, 903 | 1895.0 | cox excav |
| 104 | 14, 722, 304 | 1, 829, 822 | 1894.2 | cox excav |
| 108 | 14, 722, 266 | 1, 829, 870 | 1894.5 | cox excav |
| 109 | 14, 722, 271 | 1, 829, 897 | 1894.6 | cox excav |
| 113 | 14, 722, 380 | 1, 829, 782 | 1894.0 | cox excav |
| 123 | 14, 722, 436 | 1, 829, 720 | 1894.0 | cox excav |
| 130 | 14, 722, 488 | 1, 829, 591 | 1894.0 | cox excav |
| 135 | 14, 722, 497 | 1, 829, 560 | 1894.0 | cox excav |
| 138 | 14, 722, 524 | 1, 829, 487 | 1894.0 | cox excav |
| 145 | 14, 722, 584 | 1, 829, 399 | 1894.0 | cox excav |
| 149 | 14, 722, 554 | 1, 829, 416 | 1894.0 | cox excav |

| POINT NUMBER | NORTH | EAST | Elev. | Location |
|--------------|--------------|-------------|--------|-----------|
| 667 | 14, 772, 249 | 1, 828, 670 | 1890.0 | cox blind |
| 669 | 14, 772, 235 | 1, 828, 623 | 1891.0 | cox blind |
| 673 | 14, 772, 235 | 1, 828, 569 | 1890.9 | cox blind |
| 681 | 14, 772, 337 | 1, 828, 570 | 1890.7 | cox blind |
| 688 | 14, 772, 534 | 1, 828, 555 | 1891.9 | cox blind |
| 691 | 14, 772, 486 | 1, 828, 557 | 1892.0 | cox blind |
| 697 | 14, 772, 431 | 1, 828, 563 | 1891.5 | cox blind |
| 702 | 14, 772, 399 | 1, 828, 569 | 1890.7 | cox blind |
| 704 | 14, 772, 531 | 1, 828, 627 | 1891.5 | cox blind |
| 713 | 14, 772, 441 | 1, 828, 660 | 1894.6 | cox blind |
| 716 | 14, 772, 472 | 1, 828, 655 | 1894.5 | cox blind |
| 717 | 14, 772, 445 | 1, 828, 641 | 1891.5 | cox blind |
| 729 | 14, 772, 373 | 1, 828, 660 | 1894.5 | cox blind |
| 732 | 14, 772, 311 | 1, 828, 684 | 1890.2 | cox blind |
| 734 | 14, 772, 339 | 1, 828, 672 | 1893.8 | cox blind |

PRACTICE STANDARDS

| | |
|-----|-----------------------------|
| 356 | Dike |
| 362 | Diversion |
| 378 | Pond |
| 587 | Structure for Water Control |
| 657 | Wetland Restoration |
| 658 | Wetland Creation |
| 659 | Wetland Enhancement |
| — | Other: |

| Date | 10/07 | 10/07 | 10/07 | 10/07 |
|----------|-------------|-------------|-------------|---------------|
| Designed | J. E. MYERS | J. E. MYERS | J. ROBLISON | T. HAAKENSTAD |
| Drawn | | | | |
| Checked | | | | |
| Approved | | | | |

DATA SHEET
 WETLAND RENOVATION LLC
 ADAMS County, Nebraska

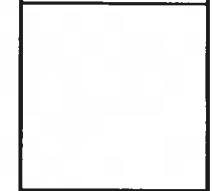


NB-ENG-41
 Rev. 9-04
 GI Engineering
 Drawing No.



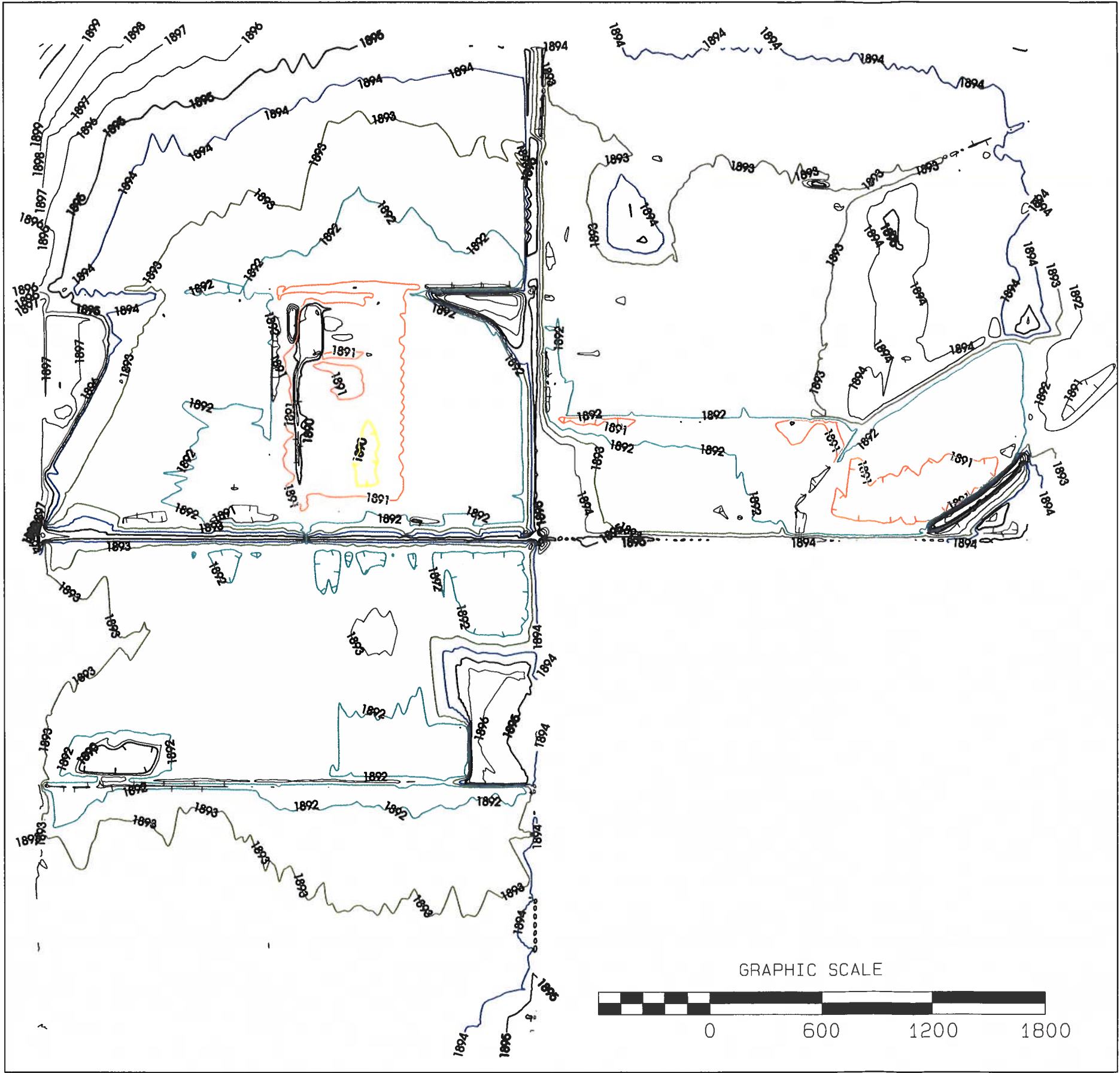
| | | | |
|----------|---------------|------|-------|
| Designed | J. E. MYERS | Date | 10/07 |
| Drawn | J. E. MYERS | | 10/07 |
| Checked | J. ROBITSON | | 10/07 |
| Approved | T. HAMKENSTAD | | 10/07 |

SHEET DESCRIPTION
WETLAND RENOVATION LLC
 ADAMS County, Nebraska



NRCS
 Natural Resources Conservation Service

File No.
 Drawing No.
 Sheet 3 of 4 Pages



| | | | |
|----------|----------------|------|-------|
| Designed | J. E. MYERS | Date | 10/07 |
| Drawn | J. E. MYERS | | |
| Checked | JACOB ROBINSON | | |
| Approved | TIM HAAKENSTAD | | |

TOPOGRAPHIC MAP OF WETLAND
 WETLAND RENOVATION LLC
 ADAMS County, Nebraska



File No.
 Drawing No.
 Sheet 4 of 4 Pages

COMPATIBLE USE AUTHORIZATION

1. To be completed by NRCS; check appropriate box:

This transaction is for CCC

This transaction is for NRCS EWP

2. County: Adams

3. Contract NO.: _____

4. Agreement NO.: 6665260300B6X

5. Expiration Date: 12/31/2024

A. Person Responsible for Agreement Activities (Name and Address):

A 1. Person Responsible for Agreement

(Telephone Number): 402 469 6868

WETLAND RENOVATIONS LLC
% JEFF ANDERSON
COUNTRYMAN WEALTH ADVISORS
201 FOUNDATION PLACE
HASTINGS, NE - 68901

B. Purpose:

Maintenance/Management Activities - Exp. Date 12/31/2024

644 - Wetland Wildlife Habitat Management

00N - Wetland Wildlife Habitat Management; Low - Enable movement and / or provide food and cover to sustain wildlife that are wetland dependent. Application of this practice will meet wildlife habitat planning criteria.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 153.52

Activity Code

644

Narrative ID

00N

Land Unit Information

Tract 1 Land Unit: 1

D. Beginning Condition of Site:

(1/13/2021): The wetland is dominated with moist soil species with some river bulrush, cattails and reed canarygrass present. Upland consists of native grasses such as bluestem, switchgrass, Indiangrass, Canada wildrye, little bluestem, and western wheatgrass, as well as a variety of forbs. The vegetation present in the spoil area is not favorable as it dominated by smooth brome and Japanese brome, as well as a little bit of Canada thistle.

E. Statement of Affect and Compatibility:

Removal of spoil pile will have positive effects on the habitat in the long-run. After restoration, spoil piles are often dominated by undesirable species such as smooth brome, Kentucky bluegrass, downy brome and nonnative thistles (e.g., Canada and musk thistle). These undesirable species will slowly take over the rest of the site if no management is done, decreasing the habitat quality for wildlife. Re-seeding with native mix after the spoil pile is removed will increase habitat quality and diversity.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

1. The spoil material must be removed following NRCS specifications. Material must be taken only from the allowed area. Removal of the spoil material must be no deeper than the surrounding area's elevation, as marked on the attached map.
2. This practice will be at the landowner's expense.

COMPATIBLE USE AUTHORIZATION

OMB BURDEN STATEMENT

Federal Agencies may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Public reporting burden for this collection of information is estimated to average 40 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM (OMB NO. 0578-0013), Stop 7630, Washington, D.C. 20250-7630.

Spoil Removal Map

Client(s): WETLAND RENOVATIONS LLC
Location: SE1/4 10-8-9w
Adams County, Nebraska
Approximate Acres: 154

Assisted By: KRYSTAL CHURCH
CPNRD
Easement Number: 6665260300B6X

Land Units: Tract 1, Fields 1

| Tract | Land Unit | Practice Name | Planned Amt | Planned Date |
|-------|-----------|---|-------------|--------------|
| 1 | 1 | Wetland Wildlife Habitat Management (644) | 3 | 2022 - 2024 |



Esri, GeoEye, I-Geo, USDA and the GIS User Community

Prepared with assistance from USDA-Natural Resources Conservation Service



| | |
|---|------------------------|
| Conservation Practice Polygons | Practice Schedule PLUs |
| Wetland Wildlife Habitat Management (644) | |



**UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service**

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|---|---|
| County: Adams | Expiration Date: 12/31/2024 |
| Landowner/Rep (Name & Address): Wetland Renovations LLC (c/o Don Cox) 3725 E. 82nd St Hastings, NE 68901 | Contract No: 66-6526-2-632 6665260300B6X |
| | Authorization No: |
| Purpose: To schedule for prescribed grazing. | |
| Land Description (Legal description and attached copy of map): SE1/4 10-8-9, Adams Co | |
| <p>Beginning Condition of Site: (09/12/2019): The upland of this site is in very good condition. It is mostly composed of native grasses (e.g., Canada wildrye, Indiangrass, big bluestem, little bluestem, switchgrass, western wheatgrass and foxtail barley) and forbs (e.g., goldenrods, Maximillian sunflower, ragweeds, and native thistles). There is some sparsely scattered smooth brome mixed in (3%). The spoil pile area is not as good of an upland area, it contains forbs (75%, e.g., ragweed & milkweed), some undesirable cool season grasses (e.g., cheatgrass, Kentucky bluegrass and smooth brome) and very little native grasses. Smooth brome is beginning to encroach from the road ditch into the east upland.</p> <p>The majority of the wetland is dominated by moist soil species (~76%) such as sumpweed, smartweeds, coreopsis, sedges, toothcup, western ironweed and spikerush. River bulrush (~17%) is beginning to take over in the central wetland, mostly focused where the pit was prior to restoration. Reed canarygrass is beginning to encroach from the south and east road ditches along the wetland.</p> | |
| <p>State of Effect & Compatibility: Wetlands provide challenges for management due to their productivity. In the absence of regular disturbance events like grazing, undesirable species often have tremendous growth rates that can overwhelm other species. Grazing is a vitally important process for managing wetlands because of the need for disturbance events to maintain the plant community. In the absence of disturbance, plant communities become dense and rank due to the prolific vegetative growth. If managed correctly with disturbance grazing, targeted species can be suppressed enough to allow desirable plants to express themselves in the wetland. Grazing is a very important process in managing wetlands because of the ability of cattle to selectively graze target invasive species, reducing their ability to compete.</p> <p>Creating structural diversity for nesting and loafing as well as making food resources available through grazing are key elements to maximizing grazing benefits for wildlife. Ideal systems for grazing incorporate rotation, altering the timing of grazing, and rest from year to year. Systems of this type maintain grazing gains for cattle while providing the necessary diversity in grass and forb cover for the life cycles of various wildlife species.</p> | |

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Special Conditions (Specifications and other details of permitted activities.):

Prescribed Grazing:

1. Landowner will follow the NRCS grazing plan. Cattle numbers or days will be adjusted based on seasonal site conditions. For every bull added, one cow/calf pair must be removed, or days need to be reduced.
 - a. 2020: 6/1 -10/15 → 122 days, 35 cow/calf pairs & bull
 - b. 2021: Between green up Sept 30, up to 154 days → 35 cow/calf pairs & bull(s)
 - c. 2022: Rest year
 - d. 2023: Between green up Sept 30, up to 154 days → 35 cow/calf pairs & bull(s)
 - e. 2024: 6/15-10/15 → 35 cow/calf pairs & bull(s)
2. Any deviations from the grazing plan will require concurrence of NRCS and will be documented in the grazing plan.
3. Excessive concentration of livestock in the upland over time will either require a cross fence to focus grazing in the wetland, or stocking rate reduction. Temporary fencing is considered part of this CUA. Temporary fencing will be installed and removed at the cost of the landowner. Fencing will be approved by Team Leader prior to installation.
4. Annual grazing is not guaranteed. NRCS retains the right to alter annual grazing strategies to adjust to current ecological site condition and desired management results.
5. During drought years, the stocking rate must be reduced by 25%. Drought is defined as one or more months at a D2 (Severe Drought) or higher drought rating by the United States Drought Monitor.
6. Grazing may not occur on the same acres as haying in the same year. Haying is not permitted under this CUA.
7. This practice will begin in 2020.

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

Recommended (NRCS Signature): Michael Perry Date: 1-13-2020

Title: Resource Conservationist

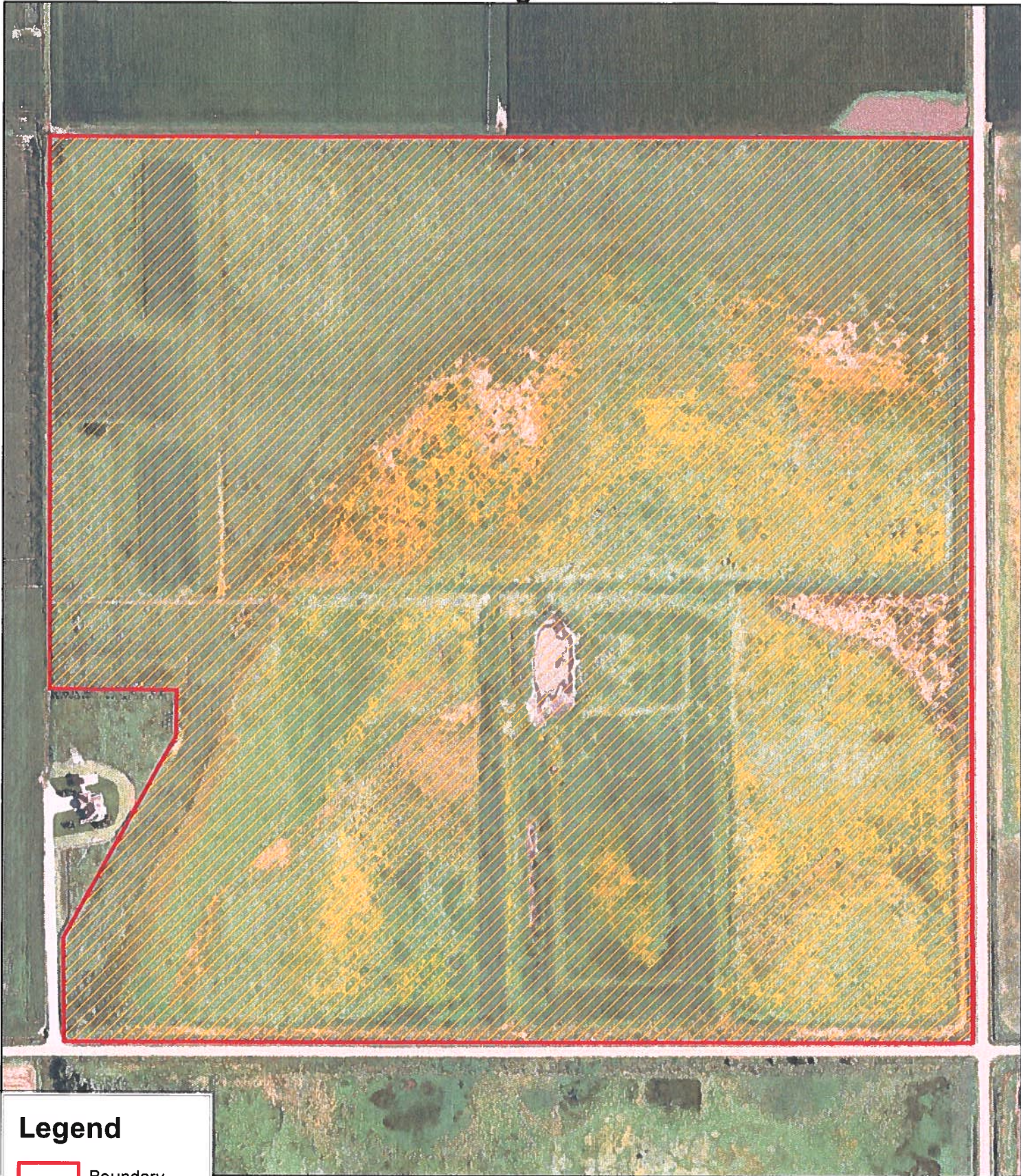
Landowner or Representative (Signature): Charles Pennington LLC Date: 1/17/20

Approved (NRCS Signature): **BRADLEY SONCKSEN** Digitally signed by BRADLEY SONCKSEN
Date: 2020.03.13 11:40:54 -05'00' Date: _____

Title: ASTC/Programs

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

Grazing CUA



Legend

-  Boundary
-  Grazing area



**UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service**

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|--|---------------------------------------|
| County: Adams | Expiration Date: 12/31/2026 |
| Landowner/Rep (Name & Address): Wetland Renovations LLC 3725 E 82 nd St. Hastings, NE 68901 | Contract No: 66-6526-2-632 |
| | Authorization No: |
| Purpose: To allow for chemical control of noxious weeds and other plant species deemed undesirable by NRCS in order to maintain compliance with state and county weed laws and to encourage annual, food-producing vegetation for waterfowl. To allow for food plots in order to provide a quality food source for wildlife in close proximity to suitable cover. To allow for haying/shredding in order to aid in noxious weed control and to open areas of bare ground for ground-nesting insects and allow for regeneration of suppressed forb species. To allow for tillage in order to set back perennial wetland vegetation and encourage annual, food-producing vegetation for waterfowl. To allow for prescribed burning in order to eliminate thatch, set back tree encroachment, and reinvigorate native plant growth and diversity. To allow for placement of beehives on the easement to aid in pollination of native wildflowers. To allow for mechanical brush control in order to control trees too large for other control methods and prevent further invasion. | |
| Land Description (Legal description and attached copy of map): SE4 of Sec 10, T8, R9W Adams Co., NE | |
| Beginning Condition of Site (9/13/17): The upland portions of this easement are covered in native warm season grasses and forbs. There are 3 food plots near the northwest corner. Five shrub plantings are located along the edges of the food plots. A majority of the wetland area is in a mid-successional state with a plant community of coreopsis, sedges, rushes, barnyard grass, smartweed, and some scattered reed canarygrass. A berm juts in from the east side of the easement boundary towards the center. This berm is mostly downy brome and annual weeds, but it also contains Canada thistle and numerous sprigs of native warm season grasses. The main excavation area near the south-central portion of the easement is early successional wetland that contains mostly smartweed. Two small pockets of river bulrush can also be found here. Small, scattered cottonwood trees can be found across the site. | |
| State of Effect & Compatibility: <u>Chemical Weed Control</u> Noxious weeds, perennial wetland vegetation, trees, and invasive cool season grasses provide a threat to the diversity and function of the easement. Often these species result in reduced open water and food-producing plants. Chemical control is a critical tool in a multifaceted approach to managing difficult to control plant species. The threshold for broadcast spraying is set at 25% coverage by undesirable species because the Rainwater Basin Joint Venture Best Management Practices (2016) stated that, when an undesirable species was between 25 and 50% coverage, "managers have good success applying active management treatments to significantly reduce its presence." <u>Food Plots</u> Food plots will provide supplemental food and cover for wildlife species as well as enhance recreational hunting use of the property. | |

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Haying/Mowing

Any haying/mowing will prompt a slight reduction in plant vigor but if timed correctly, especially during low point in the energy reserves of a plant, it can severely reduce its vigor. Mowing grasses, like reed canarygrass, should be timed early in the flowering stage to have the maximum detrimental effect. To mow at these times requires the plant to expend a lot of additional stored energy to regrow stems, suppressing its ability to spread and grow vigorously.

Mowing can also be used to create openings in stands of dense vegetation. This can be of benefit to species that need a mix of open water and vegetation (hemi-marsh). This technique is often best utilized in dry years because access to the wetland is easier on dry soils. The effects of this type of treatment tend to be short-lived and the treatment may need to be applied annually to portions of the wetland.

Annual hay harvesting is a tradition and important forage utilization opportunity for many landowners. Utilizing this available forage for feeding cattle is a viable use of wetland and upland vegetation that provides a beneficial disturbance event for the plant community.

Tillage

During drier times of the year tillage is a tool that can be beneficial for invasive species control as it drags roots to the surface and desiccates them. Disking suppresses perennial vegetation (e.g. cattails, bulrush, and Reed Canary grass) and promotes annual vegetation (e.g. Barnyardgrass, Smartweeds, Beggarsticks), also increasing food availability for migrating waterfowl in this critical migratory region.

The threshold for wetland tillage is set at 25% coverage by undesirable species because the Rainwater Basin Joint Venture Best Management Practices (2016) stated that, when an undesirable species was between 25 and 50% coverage, "managers have good success applying active management treatments to significantly reduce its presence."

Prescribed Burning

Prescribed burning reduces thatch, stimulates growth from the seed bank, increases palatability of wetland plants for cattle, increases soil heating in the spring, and more. The key element (and often challenge) of burning is timing – if timed correctly a burn can have the desired effect on a target species.

In basins that have invasive species problems, a spring burn followed by intense grazing by cattle can be highly beneficial for native vegetation. Trees present another challenge in Basins. In wetlands that are invaded by trees, fall burning will kill or suppress woody vegetation.

Bee Hives

Bees will provide pollinating services for the native plants.

Mechanical Brush Control

In the absence of natural disturbance processes (burning, grazing, and flooding) wetlands become ideal sites for trees to grow. Some of the trees are native species like Cottonwood, while others are less desirable non-native species like Siberian Elm. Tree invasion can be a serious problem in wetlands, especially in the eastern two thirds of Nebraska. When left untreated for a long period of time, more intensive mechanical tree removal methods are necessary to restore the wetland to an herbaceous community.

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Special Conditions (Specifications and other details of permitted activities.):

Chemical Weed Control

1. This CUA does not authorize the Landowner to treat weeds that are not noxious weeds (state defined) or not considered undesirable by NRCS. Noxious weeds are required by State law and the Warranty Easement Deed to be controlled by the landowner.
 - a. State listed noxious weeds are Canada thistle, musk thistle, plumeless thistle, Japanese and giant knotweed, leafy spurge, the non-native bio-type of phragmites, purple loosestrife, saltcedar, spotted and diffuse knapweed, and sericea lespedeza.
 - b. Species considered undesirable by NRCS in this wetland complex because of their potential for becoming invasive and dominant are reed canarygrass, cattail, river bulrush, brome species, and trees other than sand plum.
 - c. The landowner is also responsible for checking with their county weed authority for county listed noxious weeds.
 - d. Many species deemed weedy in agricultural land, such as annual sunflowers, are beneficial to wildlife and are not authorized for chemical weed control in this CUA.
2. Spot spraying selective herbicides may be used to control noxious weeds and other plants that are undesirable to NRCS. Spot spraying is authorized whenever an undesirable plant species is present. Spot spraying may occur any year of this CUA as long as the target species is still present.
3. Broadcast spraying may be used when one or more undesirable plant species combined cover at least 25% of the spray area. Broadcast spraying may occur any year of this CUA as long as the target species still cover at least 25% of the spray area.
4. Mowing may be used as a pretreatment for herbicide application. See Haying/Mowing section below for more details. Mowing may not occur May 1st – July 15th without a trained professional conducting a nest survey according to USFWS protocol.
5. Herbicide selection shall be based on the targeted species with consideration of protecting native grasses, forbs, sedges, and other desirable plants species. Timing of herbicide application will be conducted to allow for the successful control of targeted species while limiting impact to non-target species.
6. Herbicides will be applied according to the label. The landowner is responsible for following all label requirements on herbicides, including whether the chemical may be sprayed over water, wetland, pasture, etc.
7. This activity will begin in 2017.

Food Plots

1. Food plots are limited to not more than five (5) percent of the total easement area.
2. The food plots cannot be harvested as a commodity crop. NRCS retains the right to make final decision on what species is to be planted.
3. The food plots must provide a diversity of habitat and contribute to the life cycle needs or food requirements of target wildlife species or guild of species of concern.
4. A maximum of three food plots totaling 5.5 acres may be established. Location, configuration, and spatial arrangement are described in the attached map.
5. If food plots are abandoned, the landowner is responsible for reseeding the area to native vegetation under NRCS specifications, if deemed necessary by NRCS.
6. Planting or alteration of food plots may not conflict with federal or state baiting laws.
7. This activity will begin in 2018.

UNITED STATES DEPARTMENT OF AGRICULTURE
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COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Haying/Mowing

1. Half of the easement area (east half or west half) may be hayed or mowed annually as long as it has not been grazed in the same year.
2. The same half may not be hayed or mowed consecutive years. The units must be rotated.
3. Annual haying is not guaranteed.
4. Haying/mowing will not occur April 1st – July 15th unless a nest survey has been conducted by a trained professional according to USFWS protocol.
5. Haying/mowing may not occur after September 1st to allow for adequate regrowth prior to a hard freeze.
6. A minimum stubble height of 3 inches must be left after haying/mowing.
7. All baled hay will be removed from easement area within 30 days from the time of baling.
8. Haying/mowing may not occur on the same acres as grazing in the same year.
9. Haying or mowing is not permitted on areas planted to trees and/or shrubs.
10. Timing of haying or mowing will be conducted to allow for the successful control of targeted species while limiting impact to non-target species.
11. This activity will begin in 2018.

Tillage

1. Tillage will not occur May 1st - July 15th unless a nest survey has been conducted by a trained professional according to USFWS protocol.
2. Wetland tillage may be used when one or more undesirable plant species combined cover at least 25% of the tillage area. Wetland tillage will entail either one-time disking OR one round with a heavy disk followed with the finish disk 1 – 12 months later. Wetland tillage may occur any year of this CUA as long as the target species still cover at least 25% of the tillage area.
3. Tillage is restricted to wetland areas unless it is used to install firebreaks.
4. Tillage is an acceptable method of installing mineral soil firebreaks. Firebreak dimensions should be sufficient enough to conduct a safe burn, but tilled breaks may not exceed 20 ft. in width. If the break needs to be wider than 20 ft. it may be mowed or hayed. See haying and mowing restrictions above.
5. Tillage is not permitted on areas planted to trees and/or shrubs.
6. This activity will begin in 2017.

Prescribed Burning

1. Prescribed burning will not be allowed from May 1st - July 15th unless a nest survey has been conducted by a trained professional according to USFWS protocol.
2. Timing of prescribed burns should be determined by objectives (e.g., control of cool-season grasses, trees, and robust emergent vegetation considered undesirable to NRCS; pre-treatment for targeted grazing or chemical application; etc.)
3. If a burn plan utilizes hayed firebreaks they should be mowed, then raked (outside the burn area) or baled, to remove duff from the fireline.
4. Prescribed burning should be considered when:
 - a. controlling tree, broadleaf, or grass species that are considered undesirable by NRCS;
 - b. needing to reduce excessive litter; or
 - c. needing to increase tiller production of desirable grass species.
5. Prescribed burning is not permitted on areas planted to trees and/or shrubs; unless the species is well established and adapted to withstand prescribed burning (e.g., suckering ability of American Plum).
6. Before burning, landowner will develop a burn plan and will obtain all necessary permits to complete the burn safely. Landowner assumes all responsibility for this activity.
7. This activity will begin in 2018.

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Beehives:

1. The area covered by hives may be no larger than 2,500 sq. ft.
2. Beekeeping activities (e.g., loading/unloading hives, access trails) should minimize vegetative disturbance. In the event of extreme disturbance, the landowner shall be responsible for restoring the area to NRCS standards and specifications.
3. This activity will begin in 2018.

Mechanical Brush Control:

1. Mechanical woody species removal will not be conducted April 1st - July 15th unless a nesting survey has been conducted by a trained professional according to USFWS protocol. Mechanical brush control is acceptable at any time of year outside of this time period. Mechanical brush control may occur any year of this CUA as long as undesirable trees are present.
2. Trees of any size may be removed by mechanical means.
3. Stumps of deciduous trees must be treated within 15 minutes of being cut.
4. Tree removal and disposal will be according to NRCS standards and specifications.
5. This activity will begin in 2017.

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

Recommended (NRCS Signature): Scott Aden Date: 10/17/17

Title: WRP/WRE Management Biologist

X Landowner or Representative (Signature): [Signature] Date: 10/18/17

Approved (NRCS Signature): BRADLEY Digitally signed by BRADLEY Date: _____

Title: SONCKSEN Date: 2017.10.20 11:59:19 -05'00'

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

COMPATIBLE USE AUTHORIZATION

1. To be completed by NRCS; check appropriate box:



This transaction is for CCC



This transaction is for NRCS EWP

2. County: Adams

3. Contract NO.: _____

4. Agreement NO.: 6665260300B6X

5. Expiration Date: 12/31/2028

A. Person Responsible for Agreement Activities (Name and Address):

A 1. Person Responsible for Agreement

(Telephone Number): 402 469 6868

WETLAND RENOVATIONS LLC
 % JEFF ANDERSON
 COUNTRYMAN WEALTH ADVISORS
 201 FOUNDATION PLACE
 HASTINGS, NE - 68901

B. Purpose:

Maintenance/Management Activities - Exp. Date 12/31/2028

314 - Brush Management

00N - Brush Management - Remove woody (nonherbaceous or succulent) vegetation including invasive and noxious species using mechanical, chemical and biological methods; either alone or in combination. Brush management will be applied in a manner to achieve the desired control of the target woody species and protection of desired species.

Maintenance/Management Activities - Exp. Date 12/31/2028

315 - Herbaceous Weed Treatment

00N - Herbaceous Weed Treatment - Remove or treat herbaceous weeds including invasive, noxious and prohibited plants using chemical, biological or mechanical methods, either alone or in combination to meet management objectives.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 153.52

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 314 | 00N | Tract 1 Land Unit: 1 |
| 315 | 00N | Tract 1 Land Unit: 1 |

D. Beginning Condition of Site:

The majority of the easement is made up of smooth brome, with a little amount of big blue stem and switch grass that can be seen on the uplands. The easement doesn't have many forbs due to the smooth brome, so if a seeding were to take place it should be kept in mind. In the wetlands you can find reed canary grass that has been sprayed in the past, but should be sprayed again.

E. Statement of Affect and Compatibility:

Wetlands and uplands always offered essential wildlife habitat and natural vegetation that offers food and habitat for many types of wildlife. Without disturbances this habitat and food source can become overgrown, and then the habitat that the wildlife used as shelter begins to decline at a rapid rate. Without changes in frequency and timing of management, this makes wetlands and uplands prone to the same species. By utilizing chemical and mechanical control for undesirable species we can eliminate noxious weeds as well as remove woody species that don't belong on the landscape. By decreasing stagnant vegetation conditions, suppressing woody invaders, and enhancing hydrological functions within the wetlands all along while improving the upland vegetation the wildlife habitat and shelter will improve and increase the population within the area.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

Chemical and Mechanical Control of Undesirable Species (noxious weeds, trees, cattails, bulrush, invasive cool season grasses):

1. This CUA does not authorize the Landowner to treat weeds that are not noxious weeds (state defined) or not considered undesirable by NRCS. Noxious weeds are required by State law and the Warranty Easement Deed to be controlled by the landowner.
 - a. State listed noxious weeds are Bohemian, spotted, and diffuse knapweed, Japanese and giant knotweed, sericea lespedeza, purple loosestrife, non-native bio-type of phragmites (common reed), saltcedar, leafy spurge, Canada thistle, musk thistle, and plumelless thistle.
 - b. Species considered undesirable by NRCS because of their potential for becoming invasive and dominant are reed canary grass, cattail, river bulrush, brome species and trees other than American Plum.
 - c. The landowner is also responsible for checking with their county weed authority for county listed noxious weeds.
2. Many species deemed weedy in agricultural land, such as annual sunflowers, and milkweed are beneficial to wildlife and are not authorized for chemical weed control in this CUA.
 - a. Landowner will need to replant at their own cost if the beneficial plants are in anyway removed from the easement.

3. Spot spraying selective herbicides may be used to control noxious weeds. Spot spraying is authorized whenever an undesirable plant species is present. Spot spraying may occur any year of this CUA if the target species are still present.
4. Herbicide selection shall be based on the targeted species with consideration of protecting native grasses, forbs, sedges, and other desirable plants species. Timing of herbicide application will be conducted to allow for the successful control of targeted species while limiting impact to non-target species.
5. Herbicides will be applied according to the label. The landowner is responsible for following all label requirements on herbicides, including whether the chemical may be sprayed over water, wetland, pasture, etc.
6. Mechanical woody species removal will not be conducted May 1st - July 31st.
7. Trees of any size may be removed by mechanical means.
8. Stumps of deciduous trees must be treated with chemicals such as Remedy Ultra®, Garlon 3a®, Garlon 4 Ultra®, Vastlan®, Pathfinder II®, or glyphosate according to the product label within 15 minutes of being cut.
9. Tree removal and disposal will be according to NRCS standards and specifications.
10. This practice is scheduled to begin in 2024 after approval by the state office.

COMPATIBLE USE AUTHORIZATION

B. Purpose:

Grazing - Exp. Date 12/31/2028

528 - Prescribed Grazing

00N - Prescribed Grazing - Manage the harvest of vegetation with grazing and/or browsing animals with the intent to achieve specific ecological, economic and management objectives.

C. Location Description (Attach a copy of map showing approximate area of compatible use.):

Landowner Easement Acres: 153.52

| Activity Code | Narrative ID | Land Unit Information |
|---------------|--------------|-----------------------|
| 528 | 00N | Tract 1 Land Unit: 1 |

D. Beginning Condition of Site:

The majority of the easement is made up of smooth brome, with a little amount of big blue stem and switch grass that can be seen on the uplands. The easement doesn't have many forbs due to the smooth brome, so if a seeding were to take place it should be kept in mind. In the wetlands you can find reed canary grass that has been sprayed in the past, but should be sprayed again.

E. Statement of Affect and Compatibility:

An adaptive prescribed grazing plan will be implemented to benefit long term wetland functions, enhance plant communities, decrease stagnant vegetation conditions suppress woody invaders and enhance hydrological functions within wetlands on the WRP easement. Grazing wetland will reduce the vegetative height to better facilitate low lying areas for migrating waterfowl and shore birds. Noxious weed control is required by state law.

Rotational grazing is beneficial to the habitat and wildlife by increasing the diversity of native grasses and forbs and creating a diversity of vegetative stands. Grazing the same time every year will decrease diversity over time due to selective grazing. Intense grazing at green up or fall will improve the habitat by targeting the undesirable species such as river bulrush, reed canary grass, and cattails, and open the wetland for migratory waterfowl. It also decreased the presence of undesirable cool season grasses (downy brome, Kentucky bluegrass, and smooth brome) and increase diversity of native grasses and forbs. A temporary single wire electric fence set at half power will have no impact on habitat. This will allow for site to be rotationally grazed.

Livestock Watering Facility - The livestock watering facility promotes grazing on the site by providing a reliable source of water for cattle. Grazing will reduce the amount of undesirable plant species, while promoting desirable plants. Reducing undesirable species will promote quality wetland habitat and improve wetland functions and values.

Fence - A perimeter fence will allow the site to be grazed.

F. Special Conditions, Specifications and Other Details Including Information From Consultation with FWS, CD and State Wildlife Agency:

Prescribed Grazing:

1. The landowner will follow this order of rotation for the NRCS grazing plan.
- a. The north side of the easement will be grazed by 60 head of cattle between any of the following selection in point 2 below. The south side of the easement will be grazed by 30 head after the completion of the north half being rotationally grazed. See list below for schedule of pasture rotation, along with the attached map.
2. The landowner can pick any ONE of the following section of dates to graze the cattle in a year, ensuring that the north half of the easement will not be grazed more than FORTY-FIVE DAYS, and that the south half of the easement is not grazed more than FORTY-FIVE DAYS, with a combined total of NINETY-DAYS until the next grazing season.

North part of Easement: Rotationally grazed:

- April 1st – May 16th
- April 15th – May 30th
- May 1st – June 15th
- May 15th – June 29th
- June 1st – July 16th
- August 1st – September 15th

South part of Easement: Continuously Grazed:

- May 16th – June 30th
- May 30th – July 14th
- June 15th – July 30th
- June 29th – August 13th
- July 16th – August 30th
- September 15th - October 30th

3. The WRP easement will be monitored by the landowner to ensure the site is not over grazed which would reduce the biodiversity that is planted on the easement. The minimum height that the key forage species (warm season grasses and forbs) should be grazed to is eight (8) inches. Livestock will be removed when the minimum grazing height has been reached, which may be before the end of the grazing window selected in item 2 above. The landowner will be required to re-seed and establish grasses at their own expense if grasses are over utilized.
4. During drought years, the stocking rate must be reduced by **50%**. Drought is defined as one or more months at a D2 (Severe Drought) or higher drought rating by the United States Drought Monitor. At a D1 Nebraska experiences stunted growth within the pasture and crop fields. Building a forage bank would benefit the easement during these times, its not required, but recommended.
5. Any deviations from the grazing plan will require the concurrence of the NRCS and will be documented in the grazing plan.
6. Annual grazing is not guaranteed. NRCS retains the right to alter annual grazing strategies to adjust to current ecological site condition and desired management results.
7. Grazing may not occur on the same acres as haying in the same year. Haying is NOT permitted under this CUA.
8. The easement will be monitored by the landowner and NRCS staff for adequate regrowth before the next grazing season.
9. This practice is scheduled to begin in 2024 after approval by the state office.

Fence: A perimeter fence will allow the site to be grazed.

Livestock Well and Tank: There is currently a wells that can be used to water the cattle during the grazing timeframe.

COMPATIBLE USE AUTHORIZATION

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his or her own risk. This authorization does not vest any right of any kind in the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and on referenced documents.

G. Recommended (NRCS Signature): _____ G 1. Date: _____

G 2. Title: _____

H. Landowner or Representative (Signature): _____ H 1. Date _____

H 2. Title: _____

I. Approved (NRCS Signature): -- _____ I 1. Date: -- _____

I 2. Title: _____

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

COMPATIBLE USE AUTHORIZATION

OMB DISCLOSURE STATEMENT

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0578-0013. The time required to complete this information collection is estimated to average 40 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

NONDISCRIMINATION STATEMENT

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COMPATIBLE USE AUTHORIZATION

OMB BURDEN STATEMENT

Federal Agencies may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Public reporting burden for this collection of information is estimated to average 40 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM (OMB NO. 0578-0013), Stop 7630, Washington, D.C. 20250-7630.

Marsh Trust and Brummond



-  Site Boundary
-  Wetland Area
-  Road

0 0.1 0.2 Miles



NEBRASKA WETLANDS RESERVE PROGRAM

PRELIMINARY RESTORATION PLAN **

| | | | |
|------------|--|----------|----------------------------|
| Landowner: | <u>Willard D Marsh Rev. Living Trust</u> | County: | <u>Hamilton</u> |
| Address: | <u>C/O Ivan Marsh</u> | Tract #: | <u>1309</u> |
| | <u>903 South D Road</u> | Legal: | <u>SE1/4 Sec 6 T9N R8W</u> |
| | <u>Giltner, NE 68841</u> | Site Ac: | <u>54.3</u> |
| | | Date: | <u>1/18/2011</u> |

LANDOWNER OBJECTIVES:

Restore native grasslands, native wildlife habitat and wetlands to the fullest extent possible

TEAM OBJECTIVES:

Restore native grasslands, native wildlife habitat and wetlands to the fullest extent possible

| FIELD # | PRACTICE | QUANTITY | EST. COST |
|---------|---|-----------------|-------------|
| W1 | 657- Wetland Restoration | 54.0 ac | |
| | Sediment removal | 65000 cy @ 1.35 | \$87,750.00 |
| | culverts to restore hydrology | 160 lf @ 45.00 | \$7,200.00 |
| W1 | 645 - Upland wildlife habitat | 0.3 ac | |
| | seed, seeding, site prep., weed control | 0.3 ac @ 132.45 | \$39.74 |
| W1 | 644 - Wetland wildlife habitat | 2.7 ac | |
| | seed, seeding, site prep, weed control | 2.7 ac @ 132.45 | \$357.62 |

TOTAL ESTIMATED RESTORATION COST \$ 95,348

NOTES:

95348/54.3=\$1755.94 ac

Please note that the Preliminary Restoration Plan is usually completed in the absence of all necessary information needed to finalize restoration plans, such as topographic surveys, biological surveys, and soils investigations.

This can lead to changes in the planned activities, estimated quantities and cost.

SIGNATURE & DATE - LANDOWNER:

Rosella A. Marsh Tr. 1-27-11

NRCS: *Jon Myers*

1/18/2011

FWS/NG&P:

See attached

**** Attach photo with easement boundaries and practice locations identified.**

WRI Estimated Value and Proposed Easement Boundary
 Irrigated Cropland: 54.3 ac x \$3,755 = \$203,896.50
 Total Value for Perpetual Easement: \$203,896.50
 Value for 30 yr Easement: 75% x \$203,896.50 = \$152,922.38

Date: 10/27/2010

Customer(s): MARSH TRUST

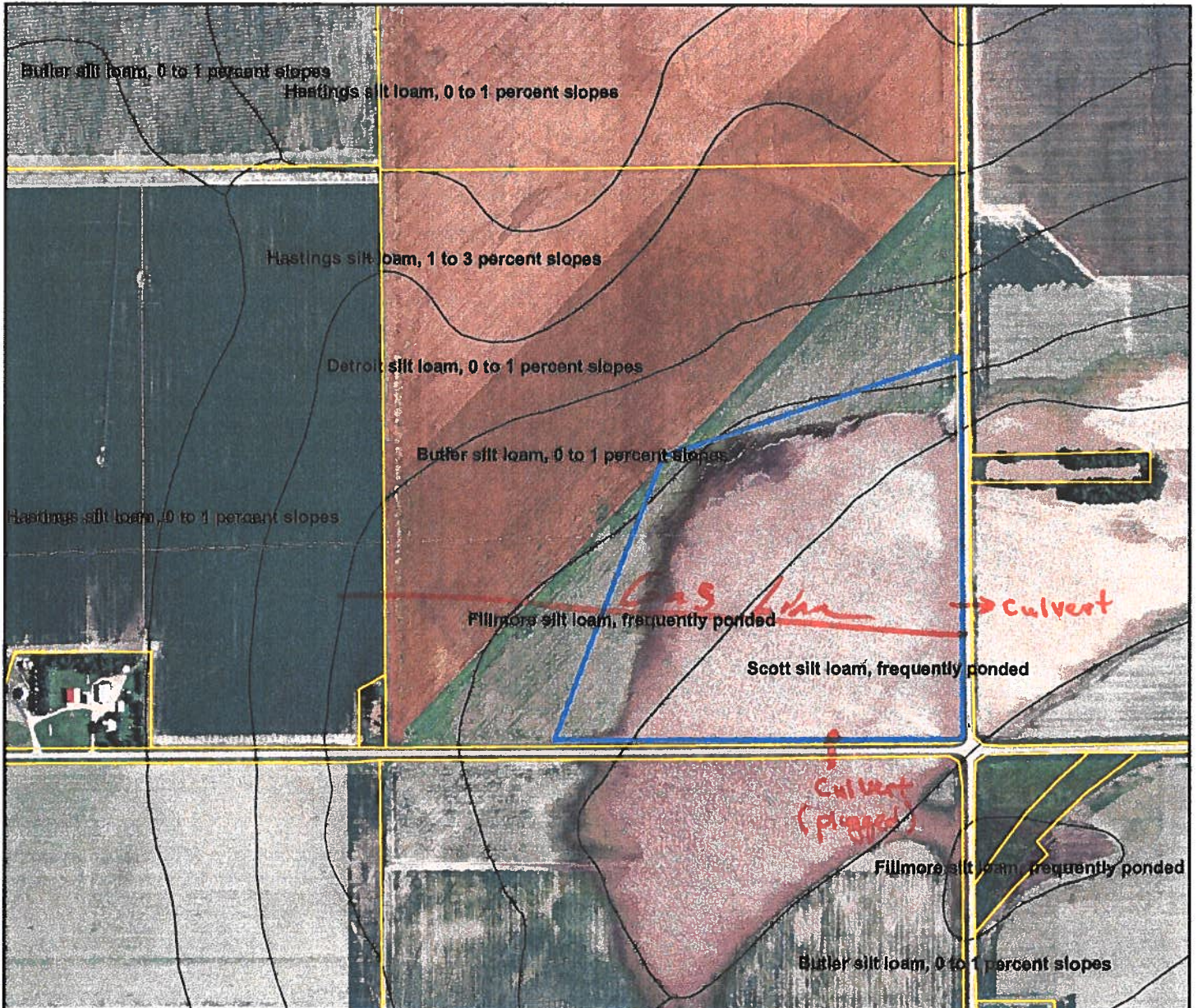
Agency: NRCS

Approximate Acres: 54.3

Assisted By: JEREMY JIRAK

Legal Description: 6-9-8W

State and County: NE, HALL



- Site leveled ~40 yrs ago; leveled to south; Grass for hay until the 1960's. Pivot m in 1970's → no gravity irrigation. "Have run pivot with water on site without getting stuck"; "old high spot in middle-island."

Legend

- WRP Boundary
- clu_copy_a_ne081
- soilmu_a_ne081





Date: 8/13/2012

WRP RESTORATION MAP

Customer(s): IVAN MARSH

Approximate Acres: 53.8

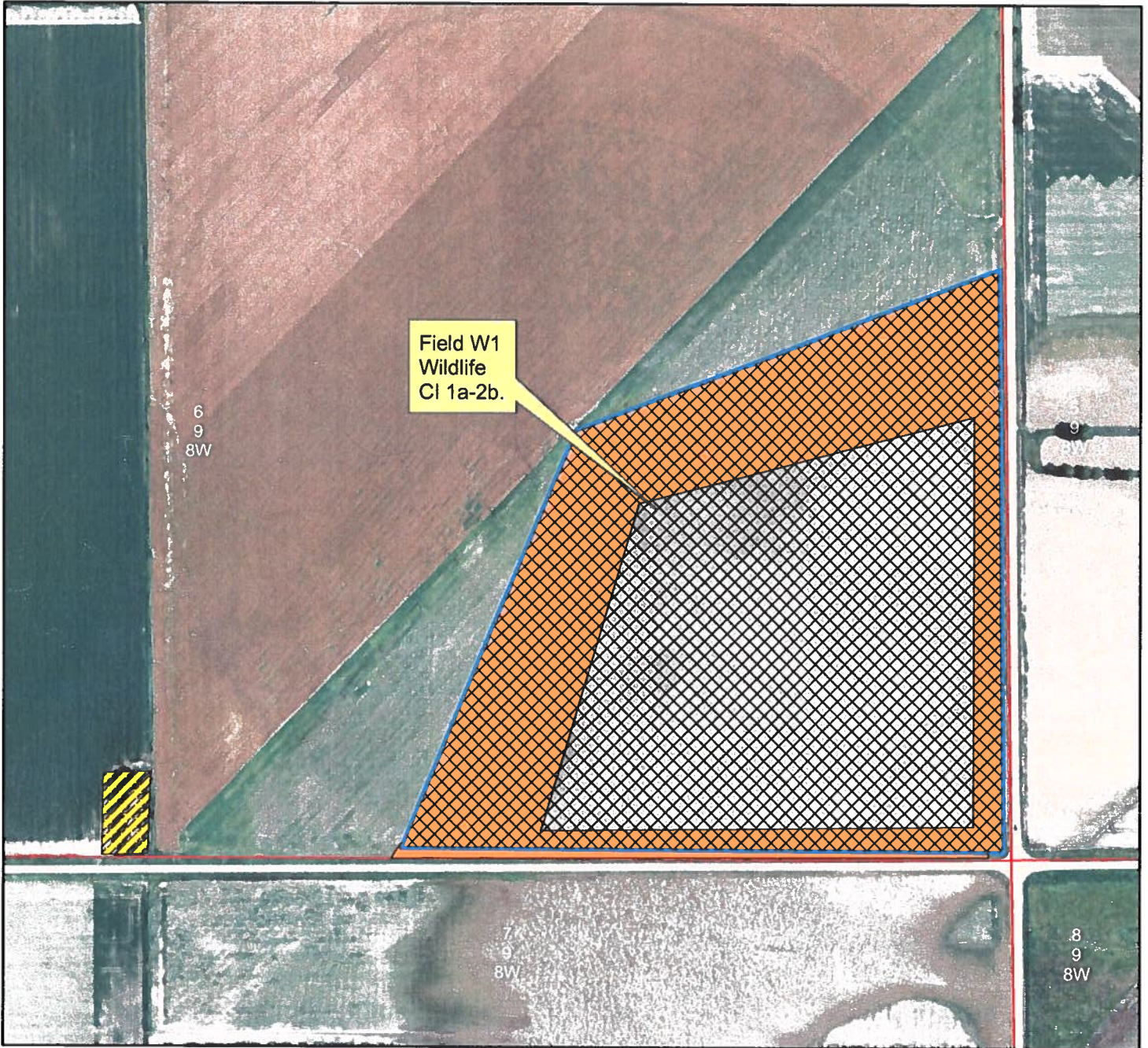
Legal Description: SE 1/4 sec. 6-9-8W Hamilton Co. Nebr.

Agency: NRCS






Assisted By: JEREMY JIRAK

State and County: NE, HAMILTON

Land Units: T1309



Legend

-  WRP Boundary: 53.8 Acres
-  Wetland Restoration: 53.8 Acres
-  HDLE Native Seeding: 24.8 Acres
-  Pit Fill
-  plss_a_ne081



CONSERVATION PLAN MAP

Date: 1/18/2011

Customer(s): IVAN MARSH

District: UPPER BIG BLUE NATURAL RESOURCES DISTRICT

Approximate Acres: 156.5

Legal Description: SE1/4 Section 6-T9N-R8W Hamilton Co.

Field Office: AURORA SERVICE CENTER

Agency: USDA NRCS


Assisted By: JON MYERS

State and County: NE, NUCKOLLS

Land Units:



Legend

 wrp2011_1309



N



Date: 10/27/2010

WRP APPLICATION MAP

Agency: NRCS

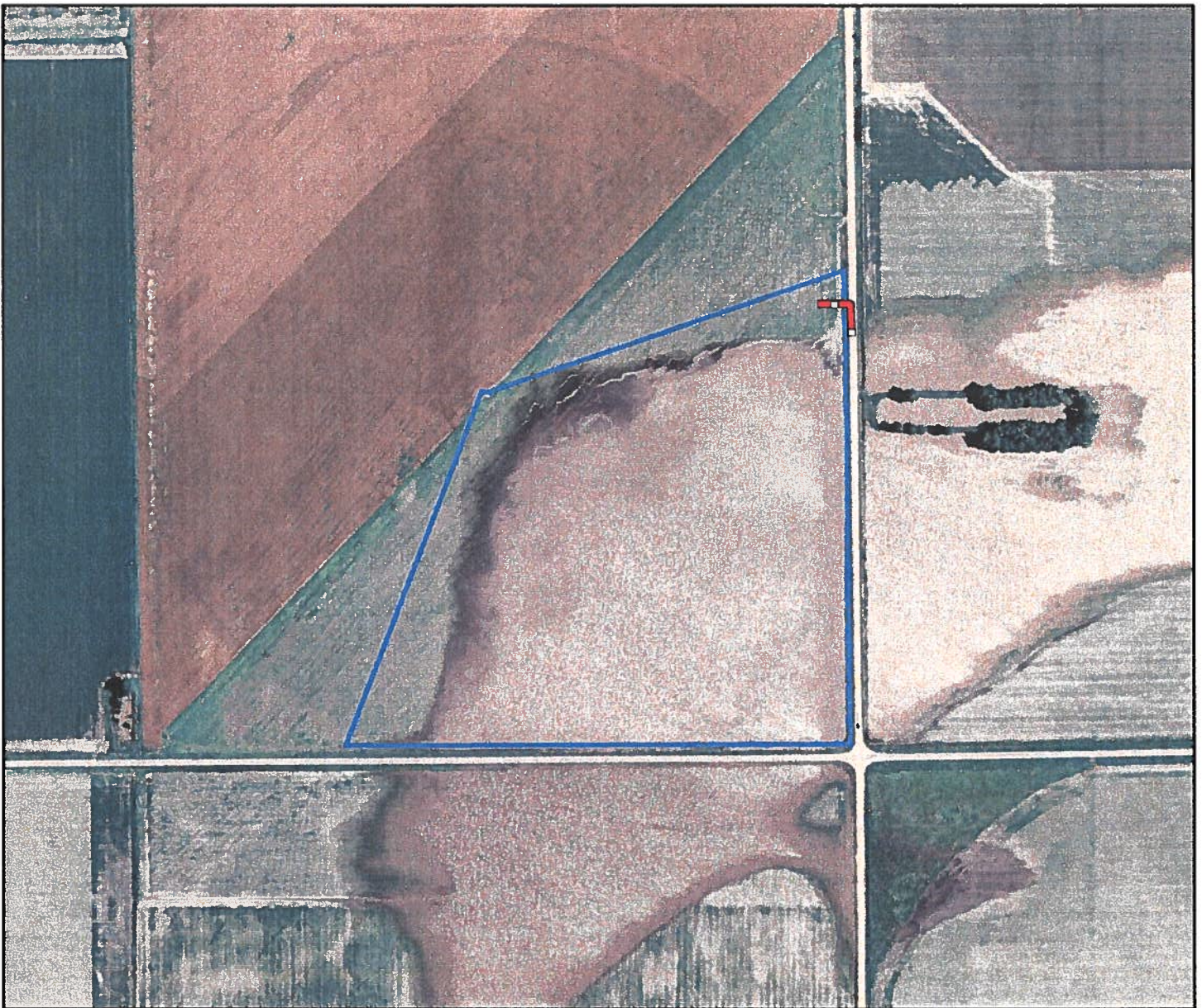
Customer(s): ROSELLA MARSH TRUST
WILLARD MARSH TRUST

Approximate Acres: 54.3

Legal Description: 6-9-8W

Assisted By: JEREMY JIRAK

State and County: NE, HAMILTON



Legend

 Easement Access

 WRP Boundary



Date: 10/27/2010

WRP WETLAND INVENTORY MAP

Customer(s): MARSH TRUST

Agency: NRCS

Approximate Acres: 54.3

Assisted By: JEREMY JIRAK

Legal Description: 6-9-8W

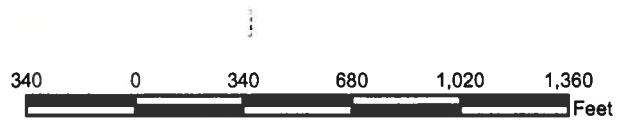
State and County: NE, HAMILTON



Legend

 WRP Boundary

 Wetland Acres: 54.3

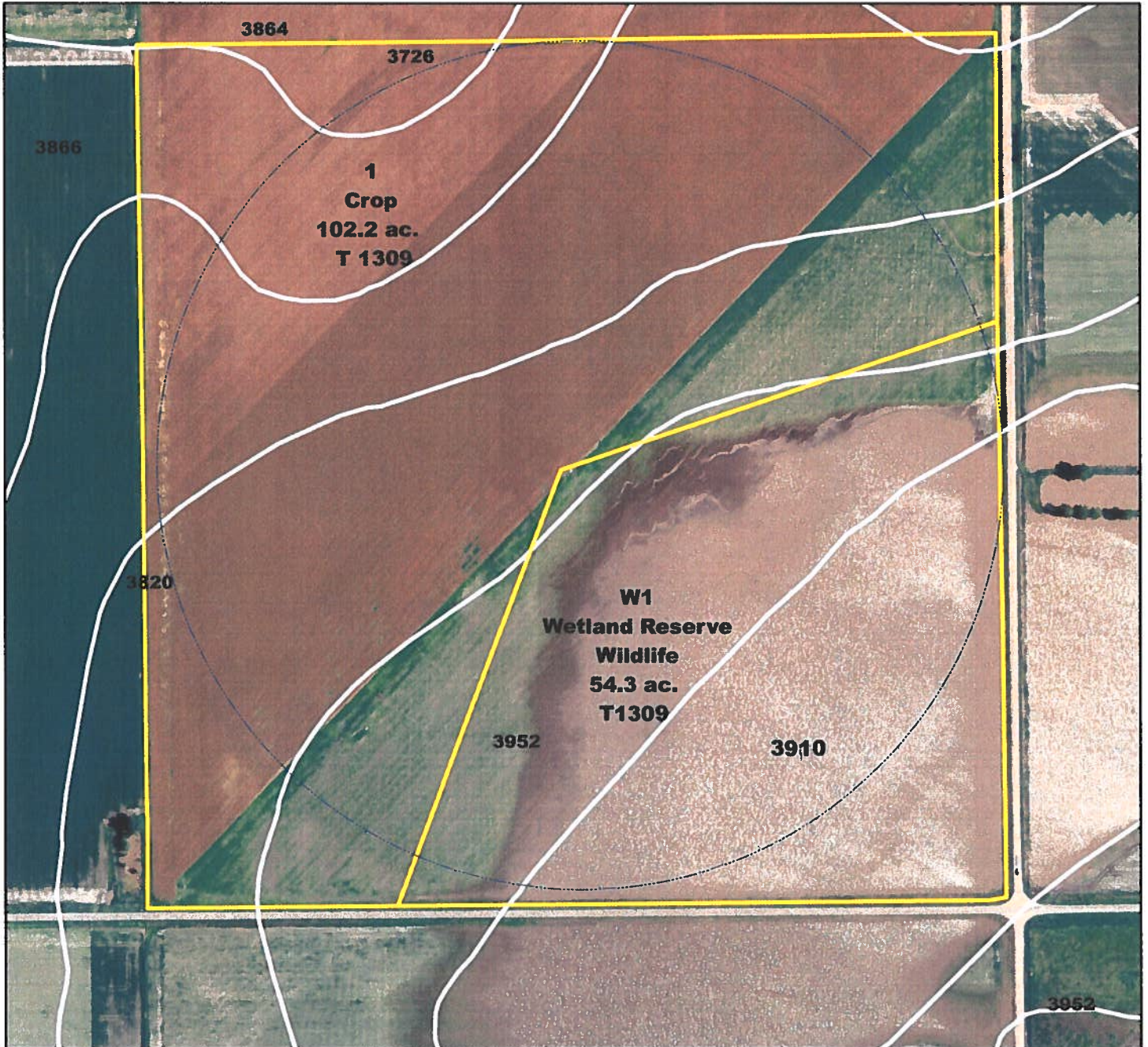


SOILS MAP

Date: 1/18/2011


Customer(s): IVAN MARSH
District: UPPER BIG BLUE NATURAL RESOURCES DISTRICT
Approximate Acres: 156.5
Legal Description: SE1/4 Section 6-T9N-R8W Hamilton Co.

Field Office: AURORA SERVICE CENTER
Agency: USDA NRCS
Assisted By: JON MYERS
State and County: NE, NUCKOLLS
Land Units:



Legend



 wrp2011_1309
soilmu_a_ne081



PRELIMINARY RESTORATION PLAN MAP

Date: 1/18/2011

Customer(s): WILLARD D MARSH FAMILY TRUST,
 District: UPPER BIG BLUE NATURAL RESOURCES DISTRICT
 Approximate Acres: 156.5
 Legal Description: SE1/4 Section 6- T9N-R8W



Field Office: AURORA SERVICE CENTER
 Agency: USDA NRCS
 Assisted By: JON MYERS
 State and County: NE, NUCKOLLS
 Land Units:



Legend

- Access Regress
- gasoline utility
- Pipe 2 each 24 in dia. 80 ft long culverts to restore hydrology
- Upland seeding 0.3 ac upland seeding & 2,7 ac wetland seeding
- sediment removal 54 acres of 8 inch removal = 65,000 cy
- wrp2011_1309
- WRP Boundary

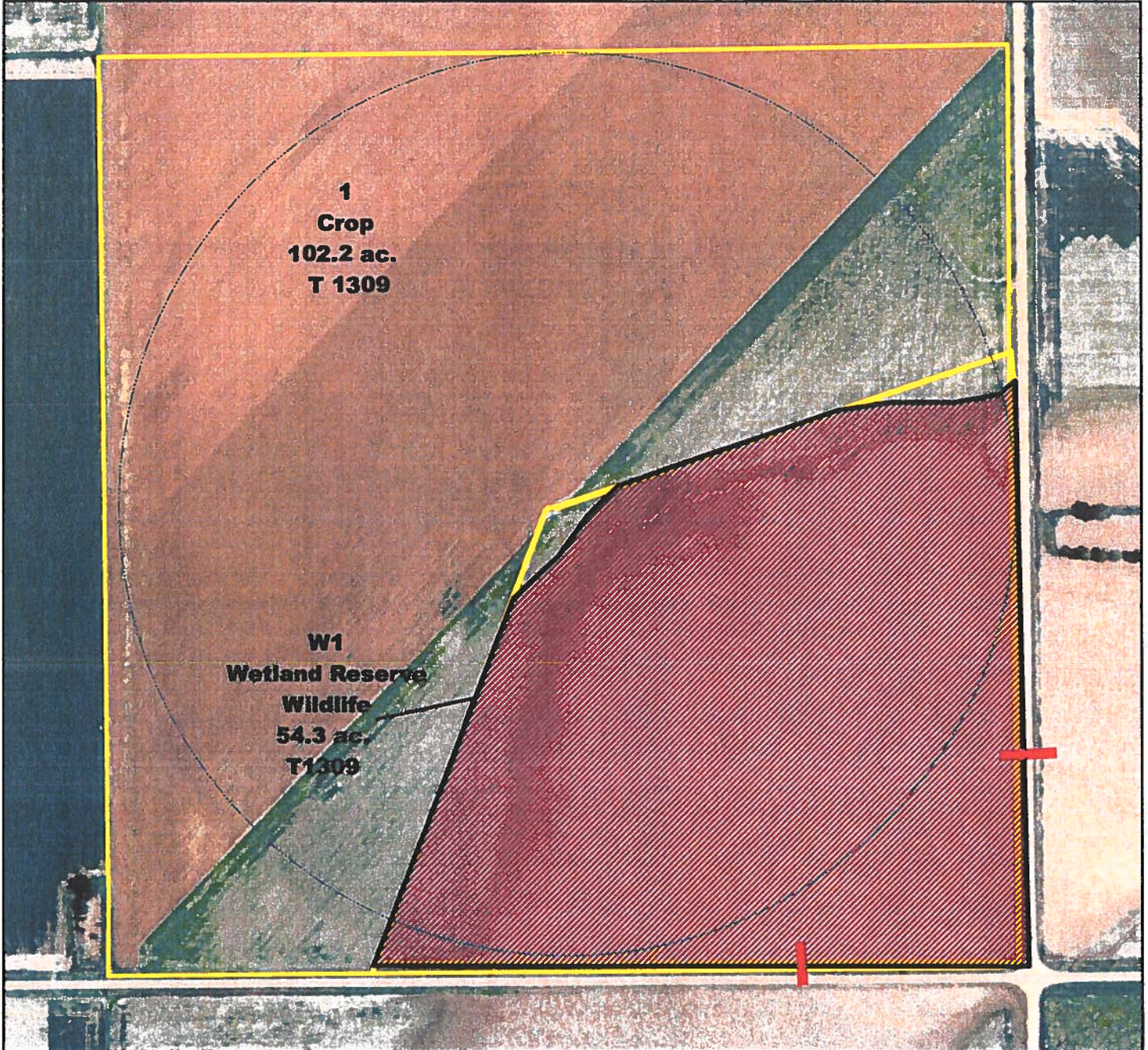


PR... MINARY RESTORATION PLA AP

Date: 1/18/2011

Customer(s): WILLARD D MARSH REV. LIVING TRUST
District: UPPER BIG BLUE NATURAL RESOURCES DISTRICT
Approximate Acres: 156.5
Legal Description: SE1/4 Section 6-T9N-R8W Hamilton Co.

Field Office: AURORA SERVICE CENTER
Agency: USDA NRCS
Assisted By: JON MYERS
State and County: NE, NUCKOLLS
Land Units:



Legend

-  Pipe **2 EACH 24 IN. @ 80 FT.**
-  sediment removal **54 ACRES @ 8 INCHES = 65,000 cy**
-  WRP Boundary
-  wrp2011_1309



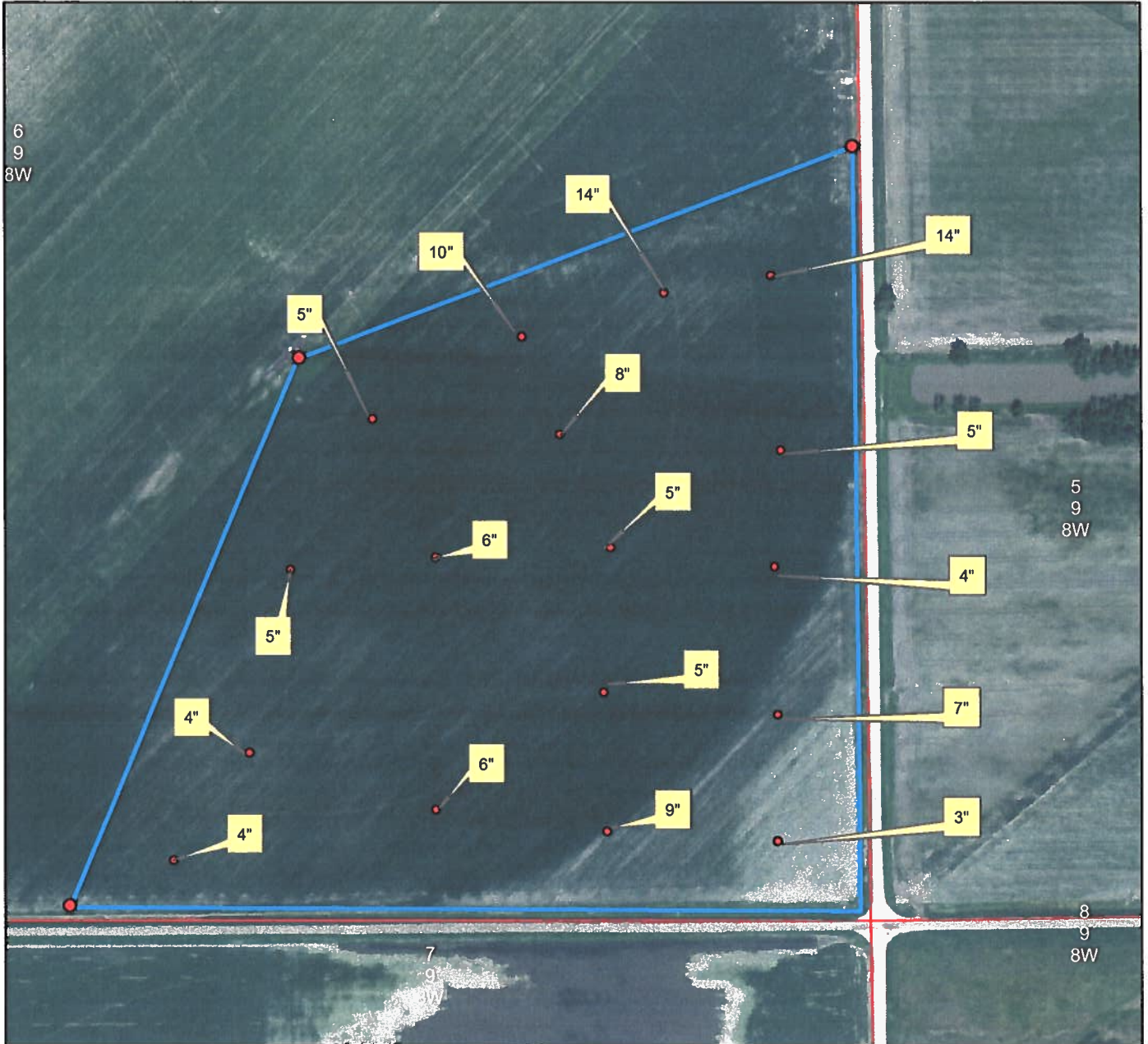
WRP Depth to Clay (inches)

Date: 12/1/2011

Customer(s): WILLARD D MARSH FAMILY TRUST,
IVAN MARSH

Field Office: BEATRICE SERVICE CENTER
Agency: NRCS
Assisted By: MARK WILLOUGHBY

Legal Description: SE 1/4 sec. 6-9-8W Hamilton Co. Nebr.



Legend

- Depth to clay (Point)
- WRP Boundary Point
- WRP Boundary
- soilmu_a_ne081
- plss_a_ne081



Hydric Soils

Hamilton County, Nebraska

| Map symbol and map unit name | Component | Percent of map unit | Landform | Hydric rating | Hydric criteria |
|---|--------------------------------|---------------------|-------------------------|---------------|-----------------|
| 3553: Hobbs silt loam, frequently flooded | Ponded soils | 1 | Depressions | Yes | 2B3 |
| 3561: Hobbs silt loam, occasionally flooded | Ponded soils | 1 | Depressions | Yes | 2B3 |
| 3730: Massie silt loam, frequently ponded | Massie, frequently ponded | 100 | Playas | Yes | 2B3, 3 |
| 3820: Butler silt loam, 0 to 1 percent slopes | Fillmore | 2 | Playas | Yes | 2A |
| 3864: Hastings silt loam, 0 to 1 percent slopes | Fillmore | 2 | Playas | Yes | 2A |
| 3866: Hastings silt loam, 1 to 3 percent slopes | Fillmore | 2 | Playas | Yes | 2A |
| 3910: Scott silt loam, frequently ponded | Scott, frequently ponded | 100 | Playas | Yes | 2B3, 3 |
| 3913: Scott silty clay loam, drained, frequently ponded | Scott, frequently ponded | 100 | Playas | Yes | 2B3, 3 |
| 3952: Fillmore silt loam, frequently ponded | Fillmore | 98 | Playas, Stream terraces | Yes | 2A |
| | Scott, frequently ponded | 2 | Playas | Yes | 2B3, 3 |
| 3953: Fillmore silt loam, drained, 0 to 1 percent slopes | Fillmore, drained | 98 | Playas | Yes | 2A |
| | Fillmore | 2 | Playas | Yes | 2A |
| 6312: Barney loam, frequently flooded | Barney | 100 | Flood plains | Yes | 2B3 |
| 8405: Alda sandy loam, occasionally flooded | Wt at 0-1 foot | 1 | Swales | Yes | 2B3 |
| 8491: Gothenburg loam, frequently flooded | Gothenburg, frequently flooded | 80 | Channels, Flood plains | Yes | 2B1 |

Hydric Soils

Hamilton County, Nebraska

| Map symbol and map unit name | Component | Percent of map unit | Landform | Hydric rating | Hydric criteria |
|--|--------------------------------|---------------------|--------------|---------------|-----------------|
| 8493: Gothenburg loamy sand, frequently flooded | Gothenburg | 100 | Flood plains | Yes | 2B3 |
| 8495: Gothenburg soils, frequently flooded | Gothenburg, frequently flooded | 100 | Flood plains | Yes | 2B2 |
| 8563: Platte loam, occasionally flooded | Wt at 0-1 foot | 1 | Swales | Yes | 2B3 |
| 9080: Rusco silt loam, 0 to 1 percent slopes | Perched wt | 1 | Swales | Yes | 2B3 |
| | Ponded soils | 1 | Depressions | Yes | 2B3 |

Explanation of hydric criteria codes:

1. All Histels except for Folistels, and Histosols except for Folists.
2. Soils in Aquic suborders, great groups, or subgroups, Albolis suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
 - A. are somewhat poorly drained and have a water table at the surface (0.0 feet) during the growing season, or
 - B. are poorly drained or very poorly drained and have either:
 - 1.) a water table at the surface (0.0 feet) during the growing season if textures are coarse sand, sand, or fine sand in all layers within a depth of 20 inches, or
 - 2.) a water table at a depth of 0.5 foot or less during the growing season if permeability is equal to or greater than 6.0 in/hr in all layers within a depth of 20 inches, or
 - 3.) a water table at a depth of 1.0 foot or less during the growing season if permeability is less than 6.0 in/hr in any layer within a depth of 20 inches.
3. Soils that are frequently ponded for long or very long duration during the growing season.
4. Soils that are frequently flooded for long or very long duration during the growing season.

This table lists the map unit components that are rated as hydric soils in the survey area. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; Hurt and Vasilas, 2006).

The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for all of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). These soils, under natural conditions, are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).



Hydric Soils

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

Map units that are dominantly made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units dominantly made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

The criteria for hydric soils are represented by codes in the table (for example, 2B3). Definitions for the codes are as follows:

1. All Histels except for Folistels, and Histosols except for Folistels.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
 - A. are somewhat poorly drained and have a water table at the surface (0.0 feet) during the growing season, or
 - B. are poorly drained or very poorly drained and have either:
 - 1) a water table at the surface (0.0 feet) during the growing season if textures are coarse sand, sand, or fine sand in all layers within a depth of 20 inches, or
 - 2) a water table at a depth of 0.5 foot or less during the growing season if saturated hydraulic conductivity (Ksat) is equal to or greater than 6.0 in/hr in all layers within a depth of 20 inches, or
 - 3) a water table at a depth of 1.0 foot or less during the growing season if saturated hydraulic conductivity (Ksat) is less than 6.0 in/hr in any layer within a depth of 20 inches.
3. Soils that are frequently ponded for long or very long duration during the growing season.
4. Soils that are frequently flooded for long or very long duration during the growing season.

References:

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. September 18, 2002. Hydric soils of the United States.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

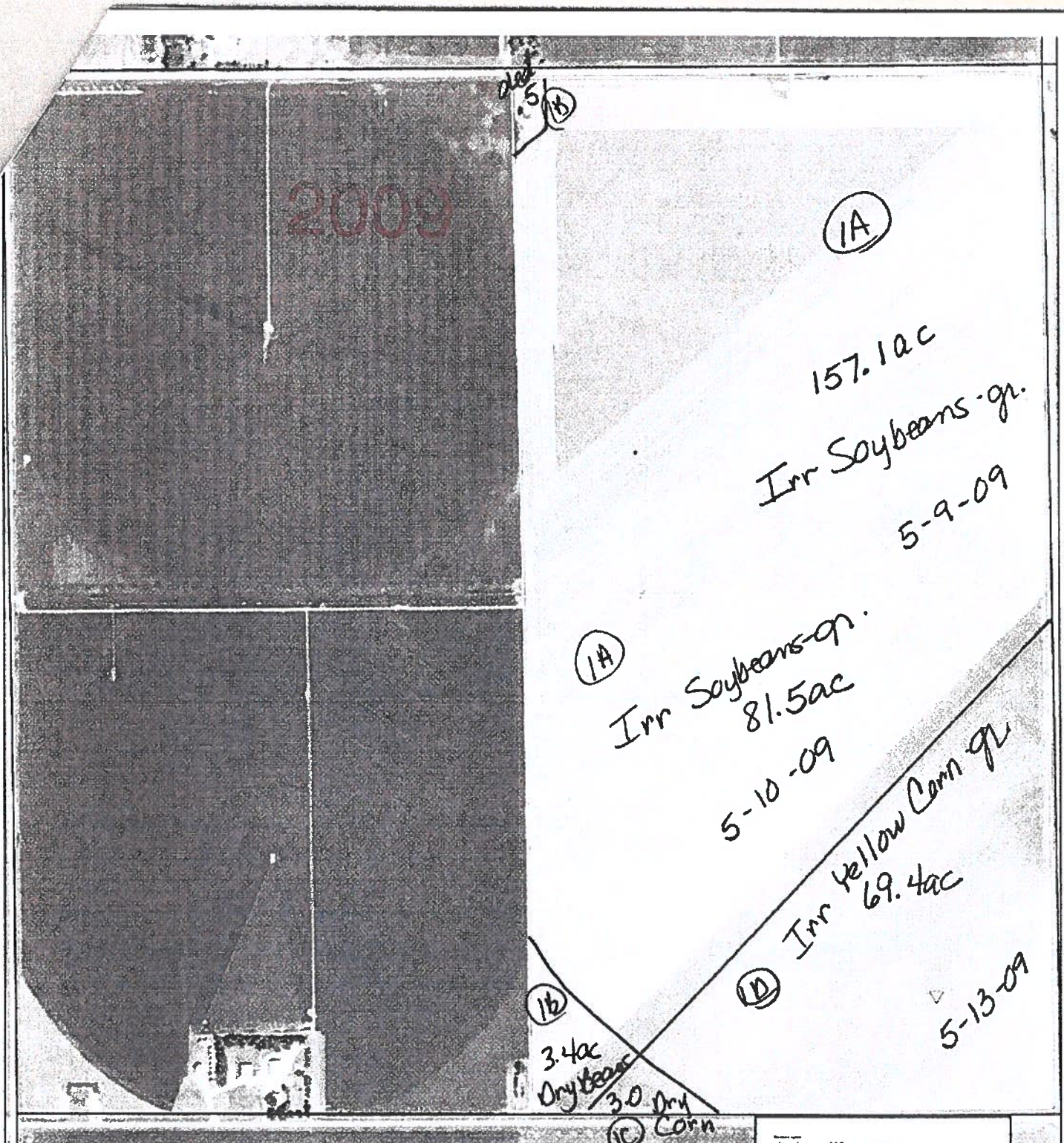
Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.

Soil Survey Staff. 2006. Keys to soil taxonomy. 10th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.



United States Department of Agriculture
Farm Service Agency

6-9-8W

Hamilton County, NE

1 inch equals 657.1 feet

1:7,885

1 inch equals 657.1 feet

January 28, 2009

2006 Ortho-Photography - Not to Scale



Wetland Determination Identifiers

- Restricted Use
- Limited Disturbance
- Exempt from Conservation Compliance Provisions

2006_pos_8_16001
 2006_pos_8_16001
 2006_pos_8_16001
 2006_pos_8_16001

RGB
 Method: Band_1
 Green: Band_2
 Blue: Band_3
 Order: 1, 2, 3
 RGB
 Method: Band_1
 Green: Band_2
 Blue: Band_3

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached map) for exact wetland boundaries and determinations, or contact NRCS

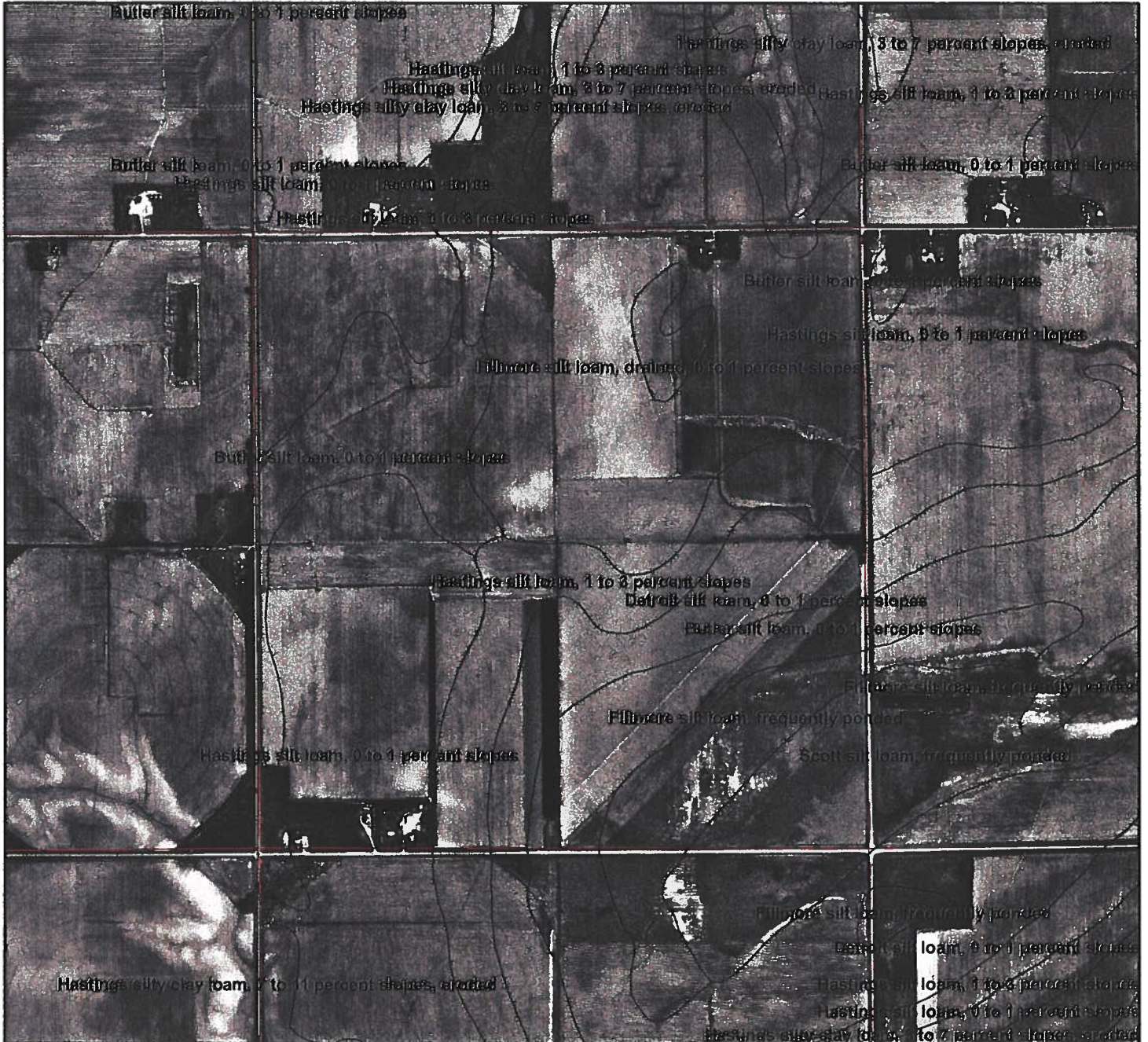
Rosella Marsh WREP Interes 1993 Photo

Date: 9/24/2010

Agency: NRCS

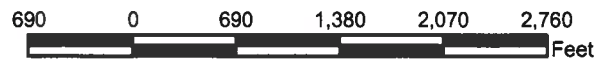
Legal Description: 6-9-8W

State and County: NE, Hamilton



Legend

- soilmu_a_ne081
- plss_a_ne



N



Rosella Marsh WREP Interes 2005 Photo

Date: 9/24/2010



Agency: NRCS

Legal Description: 6-9-8W

State and County: NE, Hamilton



Legend

-  soilmu_a_ne081
-  plss_a_ne



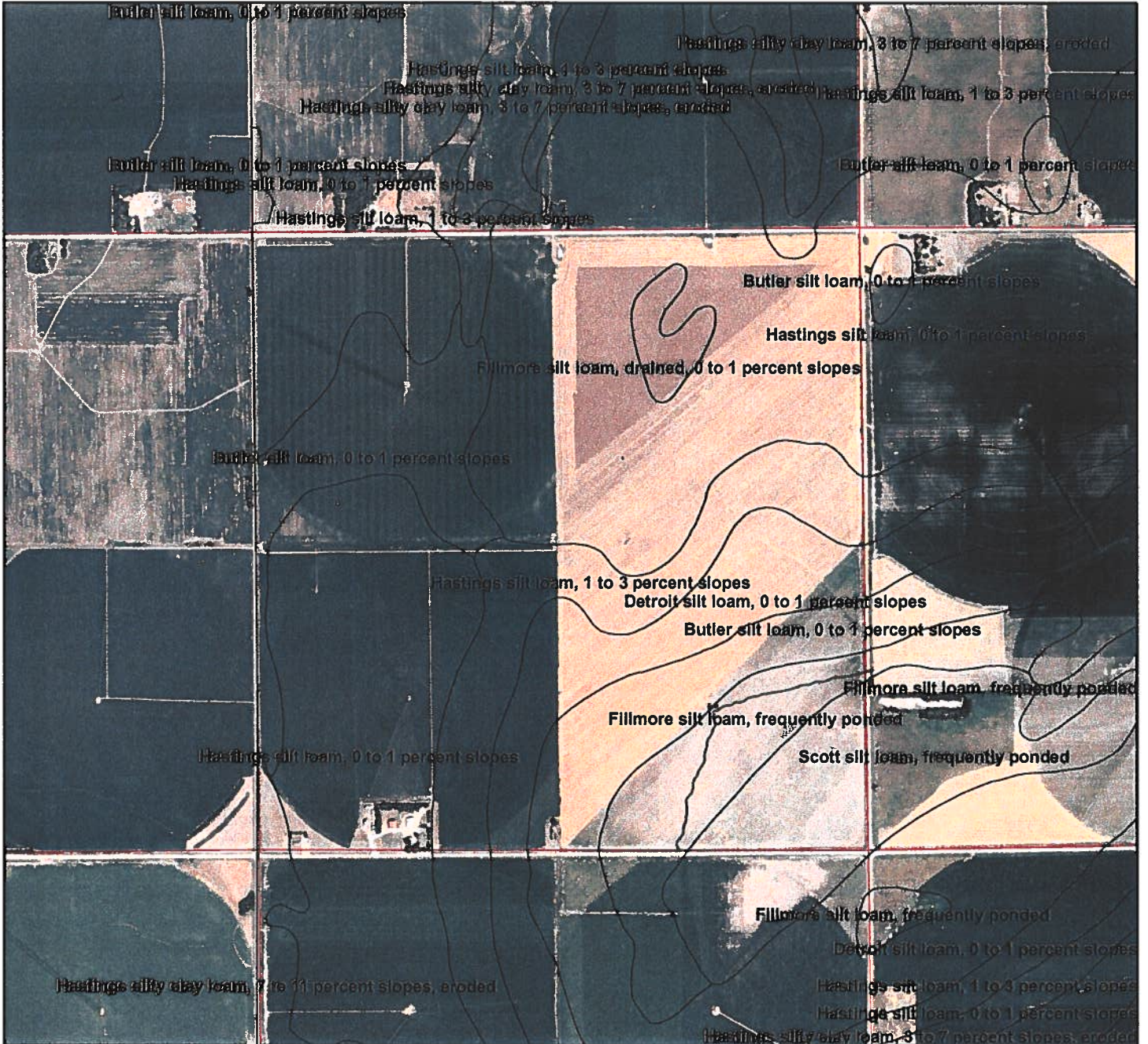
Rosella Marsh WREP Interes 2007 Photo

Date: 9/24/2010

Agency: NRCS

Legal Description: 6-9-8W

State and County: NE, Hamilton



Legend

- soilmu_a_ne081
- plss_a_ne



PERMANENT PIVOT WREP GARC MAP
Irrigated Cropland: 51.2 AC X \$3,912 = \$200,294.40
Dryland Cropland: 3.1 AC X \$3,196 = \$9,907.60
Total Easement Value: \$210,202.00

Customer(s): MARSH TRUST

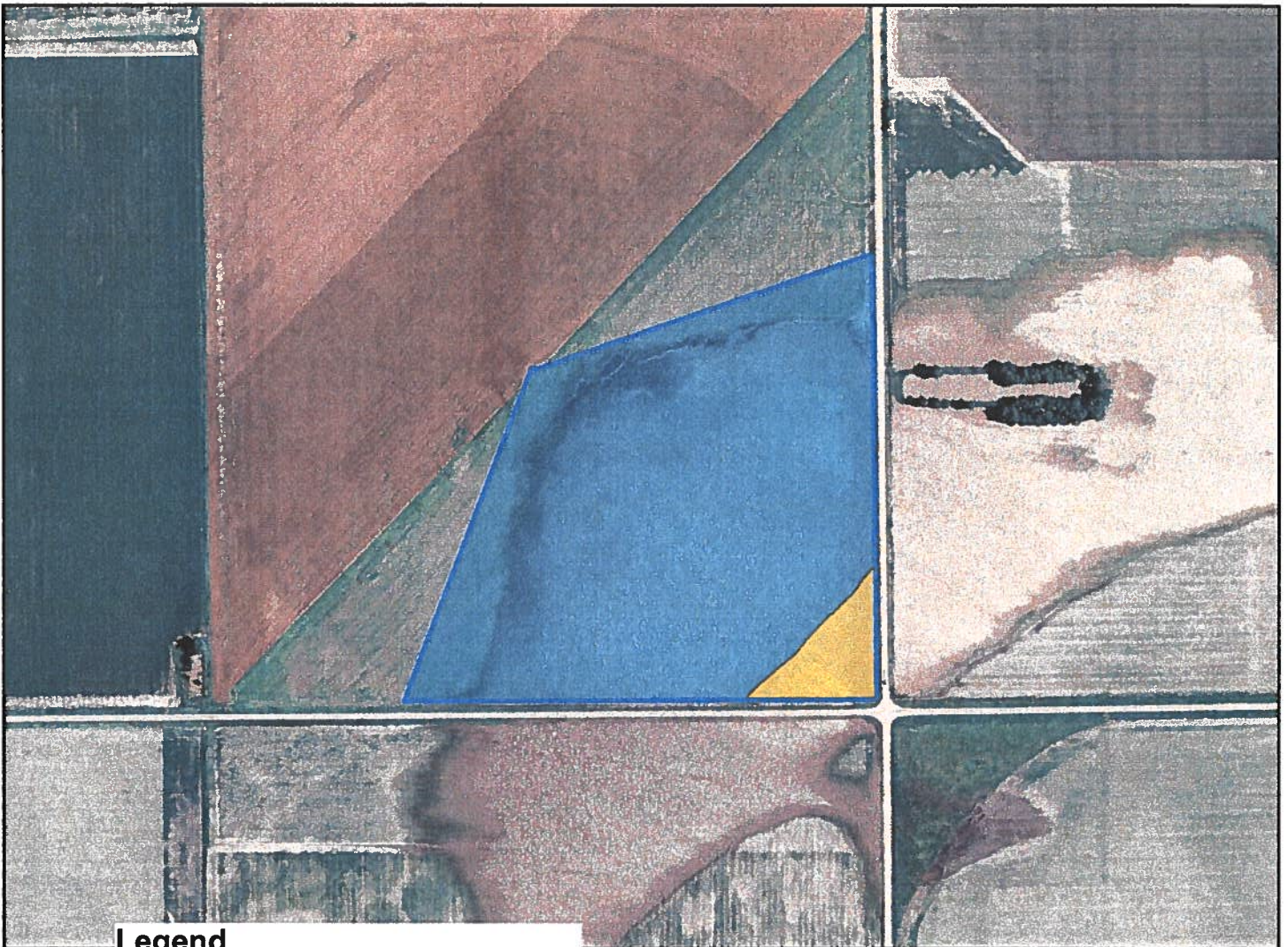
Agency: NRCS

Approximate Acres: 54.3




Assisted By: JEREMY JIRAK

Legal Description: 6-9-8W

State and County: NE, HAMILTON



Legend

-  WRP Boundary
-  Irrigated Cropland: 51.2 Acres
-  Dryland Cropland: 3.1 Acres



Design Explanation Report Williard Marsh Trust WRP Hamilton County, Nebraska

SUMMARY

This wetland is an isolated basin with no connection to a surface water tributary. Surface water enters into the basin and not out of the basin. It is not ditched to form a connection to a tributary.

This site is located approximately 5 miles East of Doniphan, in Hamilton County, Nebraska. The legal description is SE1/4 Section 6 T9N R8W (Williard Marsh Trust) and NE1/4 Section 7 T9N R8W (Brummond Family Trust). This Playa wetland is split by two roads and is located on 4 legal descriptions. Willard Marsh Trust owns the NW part of the playa. The drainage area for the wetland is approximately 1541 acres. This wetland is a closed basin wetland owned by four separate landowners, the basin is separated by the county gravel road running north and south and by a State of Nebraska highway connecting the towns of Doniphan and Giltner running east and west.

The 1 year runoff yield is 92.46 ac-ft of water. The 2 year runoff yield is 147.66 ac-ft of water. The existing storage is elevation 1882.0 = 91.5 ac-ft. Total excavation on both sites is 15,000 cubic yards or 9.3 ac-ft. $9.3 \text{ ac-ft} \div 91.5 \text{ ac-ft} = 10\%$. We are at the 10% rule of thumb on excavation of sediment out of the hydric soils.

Jon Myers (CET WRP Team5) and Jeremy Jirak (Biologist WRP Team5 leader) requested Mark Willoughby (NRCS Soil Scientist) for our area to give us the depth to Bt on the hydric soils. Mark completed this inventory and it was used in determining the depth of excavation. The map and findings are included in the design folder.

Design assistance for this project was assigned to WRP Team 5 and the local Bio-engineering team after the land was accepted into the USDA NRCS WRP Program.

Topographic survey was completed by Travis Mooney and Dylan Wieser from the Central Platte field office.

Jon Myers reviewed the preliminary design with Laurel Badura (USFW Biologist), Matt Steffl (NGPC Biologist) and Jeremy Jirak, which make up the Bio-Engineering WRP Team 5. Jon and Jeremy then met with Ivan Marsh to get landowner approval. Jon then completed a final design and met with Nathan Garrett, FE in Grand Island, for design review, quantities and drawings.

DESCRIPTION OF JOB

The landowners would like to accomplish the following: Restore the hydrology of the wetland by, excavating the sediment out of the playa, filling a man made channel and filling the road ditch adjacent to the paved road on the south. In conducting landowner meeting to go over design, Jon Myers met with the neighbor Roger Happold, whom has an unused irrigation re-use pit adjacent to the property. Roger would like his pit filled. This will also serve as a disposal area for the project.

ENVIRONMENTAL CONSIDERATIONS

Cultural resources are not known to exist in the immediate vicinity of this project. No adverse environmental impacts are anticipated with the construction or operation of this project. The site will be monitored for cultural resources during construction.

Construction from April 1st or after July 15th to avoid impact with the **Federal Migratory Bird Treaty Act**. There are not enough trees to impact migrating birds, and removal is not an impact to nesting Migratory Birds, according to Laurel Badura, Biologist, and USFW.

Construction in the periods March 23 to May 10, or September 16 to November 16, and the landowner and contract shall follow procedures to conduct daily Whooping Crane surveys and only work from the hours 10 am to 4 pm daily in these periods.

The site has cropping history; therefore Western Prairie Fringed Orchids will not exist on this site.

The restoration is not an impact to wetlands, or any endangered or protected species of wildlife or plants.

This restoration is not an impact to title 117 or title 130 of the Clean Water Act.

CONSTRUCTION DRAWINGS

List of base drawings:

- Cover Sheet
- Data Sheet
- Plan View
- Topographic Map

SPECIFICATIONS

The following is a list of the NE series specifications attached to the drawings.

- NE-1 FOUNDATION PREPARATION
- CSPEC -8 MOBILIZATION
- NE-11 REMOVAL OF WATER
- NE-21 EXCAVATION
- NE-23 EARTHFILL

AUTHORITY

Design report prepared by:

Jon Myers Date: 5/16/12
Jon Myers, Civil Engineer Technician
Nelson Field Office

Design by:

Jon Myers Date: 5/16/12
Jon Myers, Civil Engineering Technician
Nelson Field Office

Drawings prepared by:

Jon Myers Date: 5/16/12
Jon Myers, Civil Engineer Technician
Nelson Field Office

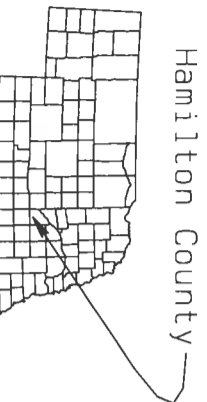
Design approved by:

Jon Myers Date: 5/16/12
Jon Myers, Civil Engineer Technician
Nelson Field Office

Team 5 Leader:

_____ Date: _____

| CONSTRUCTION DATA | | DATE |
|------------------------|--|------|
| Layout By: | | |
| Construction Check By: | | |
| Contractor: | | |
| Constructed Cost: | | |
| Cost Share Agency: | | |



WILLIARD MARSH TRUST WRP

SE 1/4 SECTION 6 T9N R8W

Hamilton County, Nebraska

SPONSORED BY: USDA NRCS WETLAND RESERVE PROGRAM

DESIGNED BY: NATURAL RESOURCES CONSERVATION SERVICE

RAINWATER BASIN WETLAND ASSISTANCE TEAM 5



NRCS

*Begin Haggfeld 4/20/12
Road gives us permission to open
this section pit adjacent to area
project on his property in SW 1/4
Section 6 T9N R8W
Respect Haggfeld*

PROJECT LOCATION

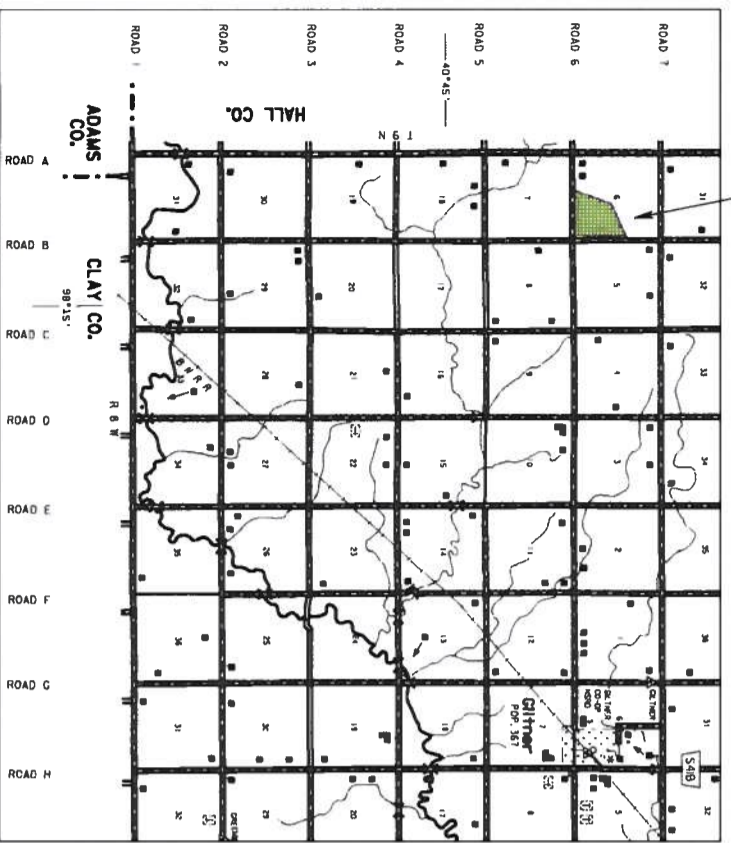


TABLE OF QUANTITIES

| ITEM | UNIT | QUANTITIES | AS-BUILT |
|--|-------|------------|----------|
| Site Preparation, Tree and Structure Removal | MG | Lump Sum | |
| Removal of Water | MG | NA | |
| Excavation* | | | |
| AREA 1 to elev 1880.7 | CY-P* | 1625 | |
| AREA 2 to elev 1881.0 | CY-P* | 5056 | |
| AREA 3 to elev 1881.3 | CY-P* | 2205 | |
| TOTAL | CY-P* | 8886 | |
| Earth Fill** | | | |
| Road ditch fill | CY | 1459 | |
| Pit fill | CY | 3700 | |
| TOTAL | CY | 5159 | |

MG = 1,000 Gal. of Water

- * CY-P* items are cubic yards planned Payments shall be based off of these planned quantities.
- ** Earthfill is subsidiary to excavation for payment. Earthfill quantities are planned quantities, and earthfill quantities are in place compacted cubic yards.
- *** Site Preparation, Tree and Structure Removal includes burn and bury. This item also includes Mobilization and De-mobilization.

LANDOWNERS AGREEMENT

I have reviewed and I am in agreement with the plans, specifications, and drawings provided to me by NRCS

Name _____ Date _____

| SHEET NO. | SHEET TITLE |
|-----------|--------------------------|
| 1 | COVER SHEET |
| 2 | DATA AND X-SECTION SHEET |
| 3 | PLAN VIEW |
| 4 | TOPOGRAPHIC MAP |

Design By: J.E. MYERS 4/12
Checked By: NATHAN GARRETT 4/12
SPECIFICATION AND DRAWINGS APPROVED FOR CONSTRUCTION

Jon Myers
Digitally signed by Jon Myers
DN: cn=Jon Myers, o=CET Wetland Team 5, ou=USDA NRCS, email=jon.myers@ne.usda.gov, c=US
Approved By: J.E. MYERS Date: 2012.04.16 08:38:21 -05'06'FILE

THIS PROJECT IS JOB CLASS IV

| Section 21 Timorh, R08east | |
|----------------------------|---------|
| SHEET NO. | 1 |
| TOTAL SHEETS | 4 Pages |

CONSTRUCTION NOTES

- 1) The contractor will inspect the construction area for the presence of utility facilities both surface and subsurface, and will notify the Nebraska One Call System (http://www.ne-diggers.com) before construction activities begin. The contractor will use extra safety precautions when working near or around pipelines, power lines, power poles, underground cables, or other utility installations. DIGGERS HOTLINE: 1-800-331-5666
- 2) The CONTRACTOR shall remove all signs of temporary construction facilities, such as work areas, stockpiles, and other vestiges of construction prior to final acceptance of work. The disturbed areas shall be graded and filled as specified. Any off-site damage attributable to the CONTRACTOR'S conduct, shall be repaired at no additional cost to the owner.
- 3) Clearing areas, grubbing and grubbing areas, and construction work limits are generally bounded by the toes of the embankment, and excavation/borrow areas. Exact location of the work limits will be staked by the NRCS before construction begins.
- 4) Material which is not suitable for earthfill and which can not be spread in adjacent fields (stumps, trees, fence materials, concrete blocks, rubble, etc.) will be removed, burned and buried. Buried waste material will be at least 3.0 feet below the natural graded ground surface and the finished surface of the burial area will blend in with the surrounding topography.
- 5) Disposal areas shall be stockpiled with a maximum pile height of 5 feet. The finished disposal area shall be free of small low spots, and smoothed, shaped and sloped to facilitate drainage to the wetland. The disposal area shall be disked twice to eliminate roughness and clods.
- 6) Excavated material not suitable for earthfill will be spread and shaped to blend into the landscape or, stockpiled in disposal areas, whichever is specified on the drawings. Exact limits of the burial/disposal and excavation waste area will be staked by the NRCS at the time of construction.
- 7) The contractor shall be responsible for furnishing, placing, and maintaining signs, barricades, and danger signals deemed necessary by the Nebraska Dept. of Roads and/or the County Road Department.
- 8) Fences within the construction work limits will be removed by contractor/others before construction begins.
- 9) Excavation (soil removal) area limits will be staked by the NRCS Inspector at the time of construction. All finished excavation (soil removal) slopes will be a minimum of 6:1.
- 11) Excavation tolerances on all sediment removal and berm removal are to grade or -0.2 feet of elevation shown on drawings.
- 12) Road ditch fill details - a 10 feet wide level section to elevation 1665.5 with 12:1 side slopes. NRCS Inspector shall stake road ditch grade stakes at the time of construction.

EARTHWORK QUANTITIES COMPUTATION METHOD

- MOPOND, Ver. 1.0
- TERRAMODEL, Ver. 10.60
- OHIO
- MANUALLY PLOTTED, DEA
- OTHER: _____

PRACTICE STANDARDS

| | |
|-------|-----------------------------|
| 356 | Dike |
| 362 | Diversions |
| 587 | Structure for Water Control |
| 657 | Wetland Restoration |
| 658 | Wetland Creation |
| 659 | Wetland Enhancement |
| _____ | Other: _____ |

HYDROLOGIC DATA

| | |
|--------------------------------|--------|
| DRAINAGE AREA, Acres | 1541 |
| WATERSHED SLOPE, % | 1.3 |
| WATERSHED LENGTH, Feet | 6751 |
| RCN | 82 |
| TIME OF CONCENTRATION, Hr. | 2.01 |
| 10Yr-24hr Storm Runoff (ac-ft) | 92.46 |
| 25Yr-24hr Storm Runoff (ac-ft) | 147.68 |

CONSTRUCTION SPECIFICATIONS

| | |
|--|--------------------------------------|
| Nebraska Construction and Materials Specifications | |
| NE - Series. Check the ones that apply | |
| 1 | Site Preparation & Structure Removal |
| 8 | Site Mobilization and Demobilization |
| 11 | Removal of Water |
| 21 | Excavation |
| 23 | Earthfill |

LAYOUT POINT DATA

| Point | Excavation Area 1 | |
|-------|-------------------|------------|
| | North | East |
| 387 | 14808522.74 | 1843098.94 |
| 388 | 14808609.86 | 1843217.17 |
| 400 | 14808742.62 | 1843279.40 |
| 401 | 14808883.67 | 1843366.52 |
| 402 | 14809043.40 | 1843445.35 |
| 403 | 14809124.29 | 1843569.80 |
| 404 | 14809236.31 | 1843632.03 |
| 405 | 14809315.13 | 1843702.56 |
| 406 | 14809485.61 | 1843185.44 |
| 407 | 14809562.78 | 1843369.63 |
| 408 | 14809699.25 | 1843401.99 |
| 409 | 14809899.25 | 1843419.42 |
| 410 | 14808849.03 | 1843616.06 |
| 411 | 14808988.43 | 1843668.33 |
| 412 | 14809092.97 | 1843670.82 |
| 413 | 14809122.84 | 1843750.48 |
| 414 | 14809157.69 | 1843864.98 |
| 415 | 14809212.45 | 1843817.68 |
| 416 | 14809254.77 | 1843817.68 |
| 417 | 14809331.93 | 1843852.53 |
| 418 | 14809359.31 | 1843802.75 |
| 419 | 14809175.11 | 1843638.46 |
| 420 | 14809142.75 | 1843623.53 |
| 421 | 14809080.53 | 1843548.89 |
| 422 | 14809050.66 | 1843494.09 |
| 423 | 14809008.34 | 1843411.95 |
| 424 | 14808961.05 | 1843374.61 |
| 425 | 14808834.10 | 1843352.21 |
| 426 | 14808781.82 | 1843324.83 |
| 427 | 14808702.17 | 1843250.15 |
| 428 | 14808667.32 | 1843207.84 |
| 429 | 14808680.20 | 1843153.02 |
| 430 | 14808580.32 | 1843133.48 |
| 709 | 14809337.30 | 1843824.94 |
| 710 | 14809126.37 | 1843824.94 |
| 711 | 14808914.79 | 1843652.78 |
| 712 | 14808821.44 | 1843513.80 |
| 713 | 14808821.44 | 1843513.80 |
| 714 | 14808808.02 | 1843436.84 |
| 715 | 14808808.02 | 1843285.00 |
| 716 | 148089284.64 | 1843105.78 |
| | | 1843872.45 |

| Point | Excavation Area 3 | |
|-------|-------------------|-------------|
| | North | East |
| 1051 | 14809625.56 | 1843342.81 |
| 1052 | 14809562.95 | 18433351.70 |
| 1053 | 14809499.12 | 18433298.95 |
| 1054 | 14809435.32 | 18433218.35 |
| 1055 | 14809367.75 | 18433156.71 |
| 1056 | 14809313.23 | 18433147.82 |
| 1057 | 14809255.95 | 18433153.82 |
| 1058 | 14809199.97 | 18433140.40 |
| 1059 | 14809227.80 | 18433156.11 |
| 1060 | 14809187.53 | 18433115.19 |
| 1061 | 14809185.89 | 18433054.30 |
| 1062 | 14809130.41 | 18433001.92 |
| 1063 | 14809150.87 | 18432969.18 |
| 1064 | 14809091.45 | 18432955.73 |
| 1065 | 14809037.24 | 18433011.24 |
| 1066 | 14808975.53 | 18433049.45 |
| 1067 | 14808944.18 | 18433100.39 |
| 1068 | 14808911.52 | 18433102.29 |
| 1069 | 14808876.26 | 18433078.51 |
| 1070 | 14808836.74 | 18433078.51 |
| 1071 | 14808805.07 | 1842998.83 |
| 1072 | 14808781.56 | 1842930.26 |
| 1073 | 14808733.23 | 1842885.52 |
| 1074 | 14808681.31 | 1842885.84 |
| 1075 | 14808619.26 | 1842886.19 |
| 1076 | 14808571.59 | 1842882.66 |
| 1077 | 14808536.97 | 1842823.15 |
| 1078 | 14808519.95 | 1842775.55 |
| 1079 | 14808527.13 | 1842706.19 |
| 1080 | 14808560.28 | 1842671.08 |
| 1081 | 14808623.66 | 1842675.96 |
| 1082 | 14808674.36 | 1842723.74 |
| 1083 | 14808726.04 | 1842759.81 |
| 1084 | 14808844.83 | 1842873.95 |
| 1085 | 14808893.92 | 1842849.32 |
| 1086 | 14808945.46 | 1842800.32 |
| 1087 | 14809017.10 | 1842755.09 |
| 1088 | 14809108.08 | 1842729.39 |
| 1089 | 14809170.76 | 1842896.07 |
| 1090 | 14809245.57 | 1842884.38 |
| 1091 | 14809324.43 | 1842896.51 |
| 1092 | 14809403.28 | 1842961.21 |
| 1093 | 14809460.78 | 1842997.36 |
| 1094 | 14809553.95 | 1843038.18 |
| 1095 | 14809620.92 | 1843102.16 |
| 1096 | 14809671.96 | 1843169.33 |
| 1097 | 14809670.41 | 1843303.07 |
| 1098 | 14809805.56 | 1842854.31 |
| 1099 | 14809766.29 | 1842802.77 |

| Point | Excavation Area 2 | |
|-------|-------------------|------------|
| | North | East |
| 737 | 14809777.47 | 1843727.67 |
| 738 | 14809709.23 | 1843916.65 |
| 739 | 14809601.19 | 1843772.03 |
| 740 | 14809525.00 | 1843693.55 |
| 741 | 14809444.25 | 1843674.12 |
| 742 | 14809410.04 | 1843745.87 |
| 743 | 14809401.13 | 1843745.87 |
| 744 | 14809369.19 | 1843768.61 |
| 745 | 14809347.58 | 1843728.81 |
| 746 | 14809298.68 | 1843650.34 |
| 747 | 14809250.92 | 1843534.34 |
| 748 | 14809173.58 | 1843471.79 |
| 749 | 14809081.47 | 1843436.53 |
| 750 | 14809028.69 | 1843423.64 |
| 751 | 14809094.20 | 1843307.16 |
| 752 | 14809059.71 | 1843389.11 |
| 753 | 14809028.49 | 1843357.93 |
| 754 | 14809084.17 | 1843341.55 |
| 755 | 14809020.20 | 1843384.13 |
| 756 | 14809073.02 | 1843493.85 |
| 757 | 14809025.11 | 1843567.55 |
| 758 | 14809051.91 | 1843651.07 |
| 759 | 14809054.39 | 1843790.27 |
| 760 | 14809364.83 | 1843164.68 |
| 761 | 14809314.06 | 1843156.49 |
| 762 | 14809261.65 | 1843187.61 |
| 763 | 14809307.61 | 1843205.62 |
| 764 | 14809353.99 | 1843189.25 |
| 765 | 14809335.35 | 1843107.56 |
| 766 | 14809179.77 | 1843054.19 |
| 767 | 14809187.96 | 1843004.19 |
| 768 | 14809148.45 | 1842961.94 |
| 769 | 14809092.97 | 1842961.61 |
| 770 | 14809040.57 | 1843015.66 |
| 771 | 14808979.74 | 1843053.60 |
| 772 | 14808873.79 | 1843110.66 |
| 773 | 14808800.44 | 1843001.99 |
| 774 | 14808731.16 | 1842890.60 |
| 775 | 14808621.14 | 1842874.30 |
| 776 | 14808530.13 | 1842919.13 |
| 777 | 14808523.33 | 1843082.13 |
| 778 | 14808579.03 | 1843128.31 |
| 779 | 14808604.84 | 1843156.84 |
| 780 | 14808619.78 | 1843197.59 |
| 781 | 14808672.75 | 1843167.71 |
| 782 | 14808721.65 | 1843254.87 |
| 783 | 14808751.54 | 1843254.87 |
| 784 | 14808803.16 | 1843292.68 |
| 785 | 14808861.36 | 1843329.35 |
| 786 | 14808941.71 | 1843351.08 |
| 787 | 14809156.67 | 1843355.12 |
| 788 | 14809115.06 | 1843389.12 |
| 789 | 14808947.88 | 1843104.97 |
| 790 | 14808912.58 | 1843125.37 |
| 791 | 14808832.88 | 1843082.64 |
| 792 | 14808776.94 | 1842934.00 |
| 793 | 14808680.33 | 1842859.68 |
| 794 | 14808572.56 | 1842887.55 |
| 795 | 14808513.11 | 1842993.46 |
| 796 | 14808324.72 | 1842989.54 |
| 797 | 14809260.45 | 1843597.31 |
| 798 | 14809492.27 | 1843666.05 |
| 799 | 14809566.60 | 1843738.52 |
| 800 | 14809648.35 | 1843814.70 |

| Point | Disposal Areas | |
|-------|----------------|------------|
| | North | East |
| 1311 | 14809978.20 | 1843880.05 |
| 1312 | 14809931.44 | 1843891.53 |
| 1313 | 14809983.94 | 1844163.86 |
| 1314 | 14810082.37 | 1844163.04 |
| 1315 | 14808298.71 | 1841471.60 |
| 1316 | 14808296.93 | 1841583.66 |
| 1317 | 14808561.95 | 1841580.10 |
| 1318 | 14808556.62 | 1841478.72 |

GENERAL SURVEY INFORMATION:

UTM COORDINATES: U.S. SURVEY FEET
 CONVERGENCE ANGLE: 0.48069030 DEGREES
 POINT SCALE: 0.99964746
 COMBINED FACTOR: 0.99956025

COORDINATE SYSTEM INFO:
 PROJECTION: UTM ZONE 14 N
 DATUM: NAD 83
 GEOID: GEOID09

DATA SHEET
WILLIARD MARSH TRUST WRP
 Hamilton County, Nebraska





| | | | |
|----------|----------------|------|------|
| Designed | J.E. MYERS | Date | 4/12 |
| Drawn | J.E. MYERS | | 4/12 |
| Checked | NATHAN GARRETT | | 4/12 |
| Approved | J.E. MYERS | | 4/12 |



NRCS-41
 GI Engineering

Drawing NO.



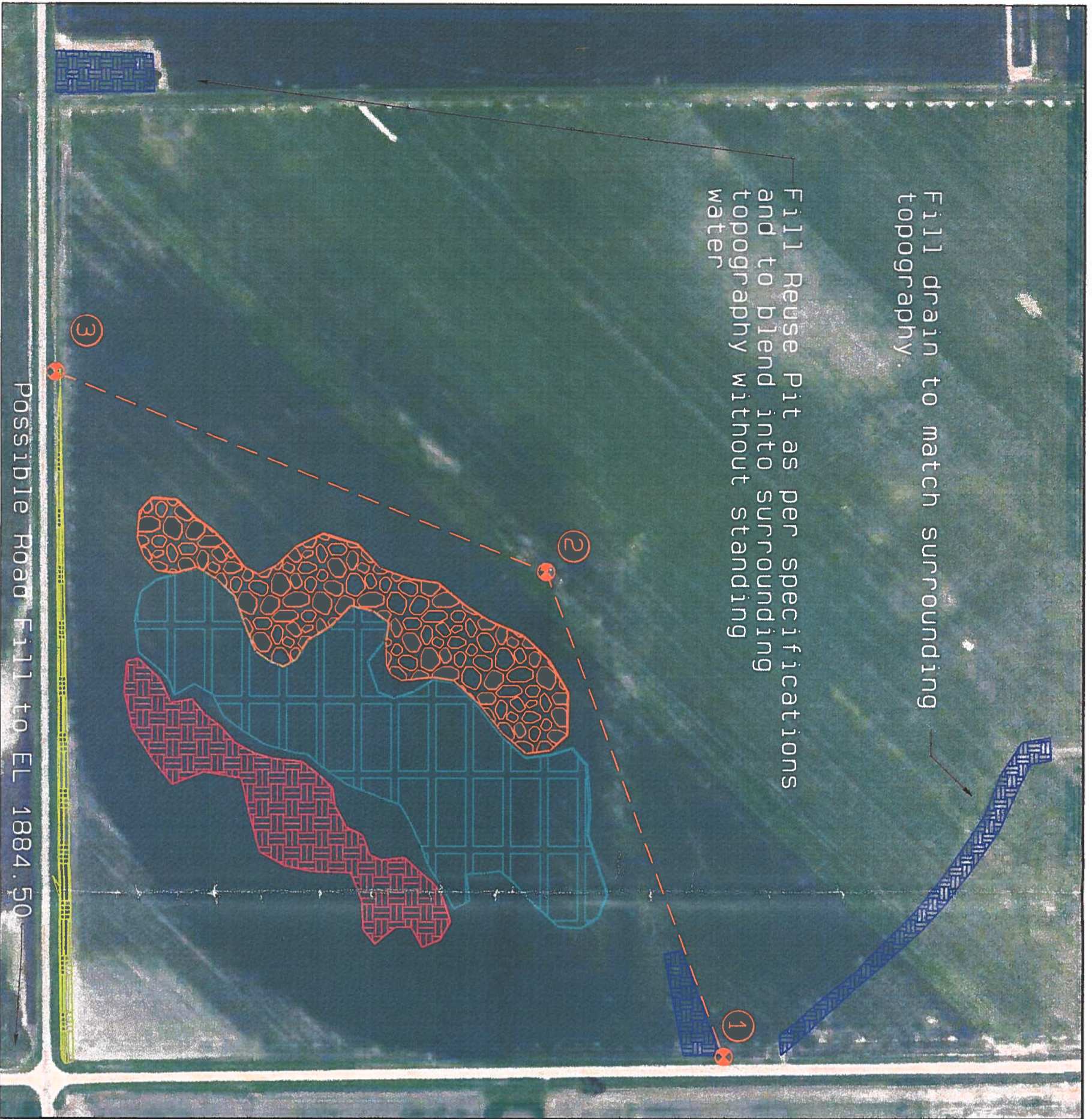
-  Excavation Area 1 EL 1880.7
-  Excavation Area 1 EL 1881.0
-  Excavation Area 1 EL 1881.3
-  Road ditch fill - 10 ft width 12:1 sideslopes - EL 1882.50



TOPOGRAPHIC MAP
 WILLIARD MARSH TRUST WRP
 Hamilton County, Nebraska

| | | |
|----------|----------------|-----------|
| Designed | J.E. MYERS | 2/12 |
| Drawn | J.E. MYERS | 2/12 |
| Checked | NATHAN GARRETT | 4/17/2012 |
| Approved | J.E. MYERS | 2/12 |





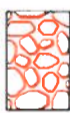




Fill drain to match surrounding topography.

Fill Reuse Pit as per specifications and to blend into surrounding topography without standing water

Possible Road Fill to EL 1884.50



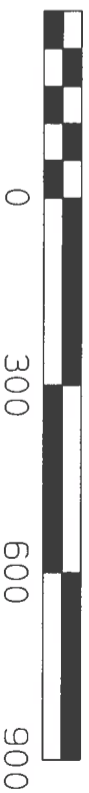
-  Excavation Area 1 EL 1880.7
-  Excavation Area 2 EL 1881.0
-  Excavation Area 3 EL 1881.3
-  Road ditch fill - 10 ft width
12:1 sideslopes - EL 1882.50
-  Disposal Areas - Check with NRCS Inspector. The areas may change pending approval from Hamilton Co. Road dept.

Pt 1 BM top of rebar
@ WRP Marker
N-14810094.52
E-1844169.08
Z-1883.20

Pt 2 BM Top of rebar
@ WRP Marker
N-14809604.82
E-1842873.16
Z-1882.20

Pt 3 BM Top of rebar
@ WRP Marker
N-14808298.12
E-1842334.65
Z-1881.50

GRAPHIC SCALE



| | | Date |
|----------|--------------------------------|------|
| Designed | J.E. MYERS | 4/12 |
| Drawn | J.E. MYERS | 4/12 |
| Checked | <i>ngarrett</i> NATHAN GARRETT | 4/12 |
| Approved | J.E. MYERS | 4/12 |

AERIAL PHOTO VIEW
WILLIARD MARSH TRUST WRP
Hamilton County, Nebraska



File No.

Drawing No.

Sheet 3 of 4 Pages

✓

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|---|---------------------------------------|
| County: Hamilton | Expiration Date: 12/31/2026 |
| Landowner/Rep (Name & Address): Eldon & Tina Marsh (c/o Gayle Marsh) 152 W 7th Rd Doniphan, NE 68832 | Contract No: 666526110151W |
| | Authorization No: |
| Purpose: To schedule/allow prescribe burning To schedule/allow installation of fire breaks. | |
| Land Description (Legal description and attached copy of map): SE1/4 Sec. 6-9-8W | |
| Beginning Condition of Site (07/01/2020): The small upland area is a mix of grasses (e.g., Virginia wildrye, big bluestem) and forbs (e.g., prairie coneflower, Maximilian sunflower, giant ragweed, black-eyed Susan, common milkweed), with a little Kentucky bluegrass and Japanese brome. The wetland contains a mix of reed canary grass and moist soil species such as sedges, giant ragweed, coreopsis, smartweeds, ironweed, curly dock, barnyard grass, and spikerush. The deepest area in the southeast corner is dominated by cattails. A few trees are scattered across the site, including cottonwood and Siberian elm. Watch the trees in future years. | |
| State of Effect & Compatibility: Prescribed fire is crucial to the processes of ecosystems giving way to extensive benefits. Burning reduces thatch, creates vegetative structural and composition diversity, stimulates growth from the seed bank, increases palatability of plants for cattle, increases soil warming in the spring, and more. If correctly timed a burn can have a desired effect on undesirable species. This site has adequate fuel to burn to accomplish the objectives if timed in the spring or fall. The goals of this burn are to stimulate forbs, improve wildlife habitat, remove excess litter to reduce risk of a wildfire, and reduce woody species such as Cottonwood and Mulberry. Once the burn is completed one can expect to see the objectives to be met but other follow up management practices (e.g., grazing, haying, etc.) and a follow up burn may be needed. | |

**UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service**

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Special Conditions (Specifications and other details of permitted activities.):

Prescribed Burning:

1. Prescribed burning is not permitted on areas planted to trees and/or shrubs; unless the species are well established and adapted to withstand prescribed burning (e.g., suckering ability of American Plum).
2. The landowner will obtain all necessary burn permits and **will follow the burn plan developed by NRCS, to safely complete the burn.**
3. The landowner or a hired contractor assumes all responsibility for this activity.
4. For specifications for how the burn is to be completed, see NRCS burn plan.
 - a. Maximum weather factors: wind speed < 20 MPH, relative humidity >25%, and air temperature < 80°F.
5. NRCS will complete annual monitoring after the burn has been completed to determine if objectives of the burn have been met. Dependent onsite conditions, NRCS will determine if a follow up subsequent burn is needed.
6. This practice is planned for winter/spring of 2021 upon approval of CUA from the State Office.
7. If unable to be completed then, the burn will occur fall 2021 and/or winter/spring 2022.
8. A follow up burn may be scheduled up to 3 - 5 years later if there is adequate fuel load is present. No more than two burns can be completed within five years.

Firebreaks:

1. Installation of firebreaks should not occur between May 1st - July 15th unless a nest survey has been conducted by a trained professional according to USFWS protocol.
2. Mowed/hayed firebreaks will be used as shown in the attached burn plan. The firebreak must be raked (outside burn area) or baled to remove duff from the fire line.
3. This practice is planned for winter/spring of 2021. If not able to be completed then, it will occur fall 2021 and/or winter/spring 2022. This practice must be completed prior to the scheduled burn.

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

Recommended (NRCS Signature): TIMOTHY GROSCH Digitally signed by TIMOTHY GROSCH
Date: 2021.06.16 14:38:16 -05'00' Date: _____

Title: WRE Team Lead

Landowner or Representative (Signature): Gayle Marsh Date: 7.7.21

Approved (NRCS Signature): BRADLEY SONCKSEN Digitally signed by BRADLEY
SONCKSEN
Date: 2021.07.27 15:30:58 -05'00' Date: _____

Title: ASTC/Programs

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

Specifications for individual prescribed burn management plans will be prepared by certified individuals as described in Nebraska's Policy for Participation in the Planning and Application of Prescribed Burns located in the Nebraska General Manual Title NE 190 Part NE413. Burn plans will be prepared for each site following Prescribed Burn Design Procedures (338DP), located in the eFOTG, Section IV and recorded using Prescribed Burn Management Plan (NE-ECS-72) or equivalent. All necessary permits must be obtained and a burning plan developed before implementation of the practice. This document shall remain in possession of the land owner.

Landowner Name: Gayle Marsh

Burn Unit Name or Legal Description SE1/4 6-9-8W

NRCS PRESCRIBED BURN PLANS and NRCS BURNS: All prescribed burn plans developed by NRCS employees and/or prescribed burns conducted for NRCS administered programs SHALL BE APPROVED PRIOR TO IMPLEMENTATION. Use CAP-112 cover page for TSP developed plans.

PLAN APPROVAL FOR NRCS PRESCRIBED BURN PLANS:

NRCS prescribed burn plans will be checked by an individual, other than the planner, who has Job Approval Authority (JAA) for the class of burn being planned or higher. Plans may be approved by anyone with appropriate JAA including the person who developed the plan, provided that person holds appropriate JAA.

| | | |
|----------------------|----------------------------------|---------------------------|
| PLAN DEVELOPED BY: | JOB CLASS OF BURN: | <u>2</u> |
| <u>Trent Findley</u> | <u>Trent Findley</u> | <u>6/9/21</u> |
| Name (Print) | Signature | Date |
| PLAN CHECKED BY: | Digitally signed by DAVID REILLY | |
| <u>David Reilly</u> | DAVID REILLY | Date: 2021.06.09 07:15:50 |
| Name (Print) | Signature | Date |
| PLAN APPROVED BY: | Digitally signed by DAVID REILLY | |
| <u>David Reilly</u> | DAVID REILLY | Date: 2021.06.09 07:16:13 |
| Name (Print) | Signature | Date |

PRACTICE CERTIFICATION:

NRCS prescribed burns will be certified by an individual with appropriate JAA for the class of burn. Non-NRCS prescribed burns, such as CRP burns, may be certified by any individual with JAA Class 1a or higher.

This practice has been applied as designed.

Signature Owner/Operator or TSP (if TSP TA funds used for burn)

Date

Certification of NRCS burns: This prescribed burn was installed according to NRCS Standards and Specifications and meets the objective(s) of Conservation Practice Standard 338 - Prescribed Burning. Copies of completed and signed NE-ECS-72 Prescribed Burn Plan (or equivalent), copies of burn crew roster, and burn permit have been provided.

Signature NRCS

Date

Certification of CRP and other Non-NRCS Prescribed Burns: This prescribed burn was completed and the objectives of Conservation Practice 338 - Prescribed Burning were met. The following documentation has been provided: Copies of the prescribed burn plan and burn permit.

Signature NRCS

Date



SECTION I. GENERAL BURN UNIT INFORMATION

Owner / Operator: Gayle Marsh Burn Unit Name: Marsh WREP
 Address: N/A Phone No: 308-850-5472
 E-mail: gemarsh@gmail.com Cell No: 308-850-5472
 Legal Description: SE1/4 6-9-8W County: Hamilton
 Acres in Burn Unit: 27.5 Burn Job Class: 2
 Land Use of Burn Unit: Range, Pasture, CRP, Crop, Other (describe): WREP
When burn unit includes multiple landowners, record the primary owner above and list other owners on an attachment.

SECTION II. OBJECTIVE/PURPOSE OF BURN (Select all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Reduce Eastern Red Cedar | <input checked="" type="checkbox"/> Control other woody plants - List <u>Cottonwood, Muhlberry</u> |
| <input type="checkbox"/> Stimulate Warm Season Grasses | <input type="checkbox"/> Reduce Cool Season Grasses |
| <input checked="" type="checkbox"/> Improve Wildlife Habitat | <input checked="" type="checkbox"/> Stimulate Forbs / Increase Diversity |
| <input type="checkbox"/> Improve Grazing Distribution | <input checked="" type="checkbox"/> Remove Litter / Slash |
| <input type="checkbox"/> Reduce Wildfire Hazard | <input type="checkbox"/> Other-list _____ |

SECTION III. DESCRIPTION OF BURN UNIT

SECTION III PART A. Woody Plant Community Description

% Volatile woody: 0 % Non-volatile woody: 1

| Woody Type | Species Present | Estimated % Cover |
|------------------|--------------------------|-------------------|
| Coniferous Trees | N/A | N/A |
| Deciduous Trees | Cottonwood and Muhlberry | 1 |
| Shrubs | Arkansas Rose | 5 |

SECTION III PART B. Describe predominant herbaceous vegetation types present. List type (cool or warm season), height, likely growth stage at time of burn, % volatile and non-volatile and existing/planned amount of fine fuel (pounds/ac).

% volatile herbaceous: 5 % non-volatile herbaceous: 95
 Amount Fine Fuel (lbs./ac) Existing: 2500 Planned: 2500
 Predominant Fuel Height (ft.) Existing: 5 Planned: 5

Type of vegetation - check the box for vegetation type(s) present:

| Vegetation Present | Circle (or Highlight) Applicable Type | List Primary Species |
|--|--|----------------------|
| <input checked="" type="checkbox"/> Seeded grass | Warm Season, Cool Season, CRP | Indiangrass |
| <input type="checkbox"/> Native Rangeland | Tall Grass, Mixed Grass, Shortgrass, Sandhills | |
| <input type="checkbox"/> Weedy Cover | Broadleaf, Grassy, Mixed | |
| <input type="checkbox"/> Cropland | Wheat Stubble, or list to right | |

SECTION III PART C. Burn Unit History: Describe General Management over the past 5 years (i.e. grazed, rested, CRP, etc.) Include years since last grazing, haying, mowing or burning.

grazed 2019, rested 2020



SECTION III PART D. Pre-Burn Conservation Practice Implementation: List practices to be implemented before the prescribed burn is conducted. This may include grazing deferment (removal of livestock to grow fine fuel), mechanical brush management, etc. Fuelbreaks and Firebreaks are listed elsewhere in this document.

deferred for 2021 growing season

SECTION IV. FIRE PLAN - PREPARATION

SECTION IV PART A-1: Prescribed Burn Plan Map. Attach a copy of the prescribed burn plan map, which includes all of the information listed (if applicable). See Section IV Parts A2 through A6.

Prescribed Burn Map which will include a North arrow, landowner &/or burn unit name, firebreak locations and types, areas needing protection, brush piles, steep areas and other areas that may impact fire behavior (interior or exterior), water sources, location of equipment, location of crews, safety zones, description of fuels/land cover on adjacent land, hazards, gates & other access points. Additional items related to the burn prescription such as prescribed wind direction, ignition point(s), firing sequence, staging area, and other pertinent items.

SECTION IV PART A-2. Areas needing Pre-Burn Protection: Show areas on Burn Map. Check items identified in the site visits and indicate the date that protection was completed.

| Area or Structure | Type of Protection Needed | Date Completed |
|--|--|----------------|
| Houses, Barns or other buildings | N/A | |
| Feeders, pens, corrals, and/or equipment | Pivot-water around | |
| Watering Systems, Fences | livestock tank and solar panel- mow around | |
| Utility Poles, Wind Turbine, Oil or Gas Structures | Utility poles-wet down, propane tank- mow around | |
| Hay / Feed | N/A | |
| Special Habitats, Desirable Wooded Areas, Wetlands, Lakes, Streams | N/A | |
| Critically eroding areas | N/A | |
| Other (describe): | N/A | |

SECTION IV PART A-3. Describe Planned Firebreaks or Fuel Breaks: Include type, length and width of firebreak and actions to be taken to create firebreak. Show the location of Fire/Fuel Breaks on burn plan map. Types of fire breaks include but are not limited to: mowed, grazed, disked, bare soil, road, and water. Minimum Fire Break Widths are listed below. Field conditions may dictate larger fuel breaks.

| Vegetation Type | Upwind Side | Downwind Side greater of listed width or 10 x tallest vegetation | Downwind Flank |
|-------------------------|-------------------------------|--|-------------------------------|
| Non-Volatile Herbaceous | 20' | 20' | 20' |
| Volatile Herbaceous | 20' | 40' | 30' |
| Non-Volatile Woody | 20' | 60' | 50' |
| Volatile Woody | 50' | 300' See Design Procedures if 300' is not feasible | 150' |
| Red Slash | 300' inside unit 200' outside | 300' inside and outside unit | 300' inside unit 200' outside |

| Location of Firebreak or Fuelbreak | Type of Fire Break or Fuel Break | Length | Min Width |
|------------------------------------|----------------------------------|-----------|-----------|
| West | mowed | 475 yards | 20 |
| East | mowed | 615 yards | 20 |
| South | mowed | 610 yards | 20 |
| | | | |
| | | | |

Additional Comments about Planned Firebreaks and / or Fuelbreaks



SECTION IV PART A-4. Existing Condition: Describe type of vegetation and other conditions of land adjacent to burn unit (all sides of unit) and document on burn plan map.

| | |
|------------|------------------------|
| Northwest: | beans |
| North: | beans |
| Northeast: | corn |
| East: | WREP |
| Southeast: | corn |
| South: | WRP |
| Southwest: | corn |
| West: | full season cover crop |

SECTION IV PART A-5. Describe Potential Hazardous Areas Within Burn Area: Show areas on Burn Map (power lines, snags, structures, obstacles to vehicle access, underground utilities, oil and gas tanks or equipment, etc.).

see map

SECTION IV PART A-6. Describe access Points to Unit and adjacent Lands: Include location of gates and/or let downs, stream crossings, open access, etc. Show locations on Burn Map.

see map

SECTION IV PART B: Additional Resource Maps and materials. Attach copies of the following maps to this plan.

- Map of the general area extending 2 miles (or more) out from the burn unit. Identify roads, building sites, schools, communities, airports, and other areas that may be impacted by the prescribed burn. Include section, township and range.
- Soils Map, with legend
- Topographic Map
- Ecological Site Map
- Shaded Relief Map (Optional)

SECTION IV PART C. Residences and Businesses within a 2 mile radius of the the burn unit: Contact all parties well in advance of the planned burn date to notify them of the planned burn.

| Direction from Unit | Name | Physical Address | Phone Number |
|---------------------|--------------------------------|------------------------------|---------------|
| <i>EXAMPLE:</i> | | | |
| 1.5 miles Northeast | Joe Johnson Farm | 13567 333 Road, Anywhere, NE | 555-234-3388 |
| 1.5 mi NE | LYON II, TROY L ETUX | 303 WEST 7 ROAD DONIPHAN, NE | LO Assistance |
| 3/4 mile west | HAPPOLD, DOUGLAS R ETUX | 101 W 6 ROAD Doniphan, NE | LO Assistance |
| 1.75 mi SE | SCHMIDTGALL, HAROLD E SHERRIL | 407 SOUTH C ROAD GILTNER, NE | LO Assistance |
| 1.75 mi SE | HIGGINS, CHRISTOPHER A CAROL J | 501 SOUTH C ROAD GILTNER, NE | LO Assistance |



SECTION IV PART D. Highways or other rights-of-way: List all within a two mile radius of the planned burn.

Example: US highway 6 - 2 miles south of unit

- 1 B Rd- east boundary of WREP
- 2 C Rd- east 1 mi
- 3 D Rd- east 2 mi
- 4 Gunbarrel Rd- 1/2 mile west
- 5 Shady Bend Rd- 1.5 miles west
- 6 Rd- south boundary of WREP
- 7 5 Rd- south 1 mi
- 8 4 Rd- south 2 mi
- 9 7 Rd- 1/2 mi north
- 10 8 Rd- 1.5 mi north

SECTION IV PART E. Adjoining Landowners: List names and phone numbers at the time that the plan is being developed. Notify neighbors living within a two-mile radius, owners of adjoining land, businesses, schools, etc. within 2 miles, well in advance of the planned burn date; record date notified as notification occurs.

| | Name | Phone Number | Date Notified |
|----|--|---------------|---------------|
| 1 | HAPPOLD FARMS INC A NE CORP | LO Assistance | |
| 2 | HUMPHREY/JASON E | LO Assistance | |
| 3 | STULKEN/JAMES E & MARGARET J | LO Assistance | |
| 4 | PHILLIPS-DEAN/CAROL ANN | LO Assistance | |
| 5 | ZERSEN/SCOTT G | LO Assistance | |
| 6 | KENAN FARMS LLC | LO Assistance | |
| 7 | THOM/JEAN M | LO Assistance | |
| 8 | SCHULTZ/CHERYL L | LO Assistance | |
| 9 | CMJ FARMS | LO Assistance | |
| 10 | HAPPOLD/STEPHEN H & JUDY | LO Assistance | |
| 11 | TMCJS FARMS LLC | LO Assistance | |
| 12 | SULLIVAN/ROGER MARK & KAREN LYNETTE | LO Assistance | |
| 13 | SULLIVAN/R MATT | LO Assistance | |
| 14 | EINSPAHR/LAMOINE E & EMALINE M | LO Assistance | |
| 15 | SCHULTZ/RUSSELL R & SHARON J | LO Assistance | |
| 16 | KUEHNER/KENDA K | LO Assistance | |
| 17 | BRUMMUND/LARRY L | LO Assistance | |
| 18 | BRUMMUND/ROBERT & AUDREY | LO Assistance | |
| 19 | MEIER, SHIRLEY L | LO Assistance | |
| 20 | MESSIAH EVANGELICAL LUTHERAN CHURCH | LO Assistance | |
| 21 | CONSRUCK, EUGENE LAURIE A CONSRUCK | LO Assistance | |
| 22 | WHIMPEY, ROSS M W/ LF EST TO JEANNE A KIRK | LO Assistance | |
| 23 | MILLER, LYNN A ETUX | LO Assistance | |



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| | | | |
|----|--|---------------|--|
| 24 | WEST HAMILTON ACRES INC | LO Assistance | |
| 25 | WENDT, GREGORY FLOYD LUCAS A RICHARDS | LO Assistance | |
| 26 | SULLIVAN, DENNIS | LO Assistance | |
| 27 | BACHMAN-KALIFF FARMS INC | LO Assistance | |
| 28 | HORST, MERLE A TRUSTEE ETAL | LO Assistance | |
| 29 | SULLIVAN, DENNIS V MARY KOCH SUCCESSOR TRUSTEE | LO Assistance | |
| 30 | OTTO, T.J. TRUSTEE | LO Assistance | |
| 31 | MILLER, LYNN A DEBRA R MILLER | LO Assistance | |
| 32 | KIRK, DONNA M | LO Assistance | |
| 33 | J-3 FARMS, LTD C/O JAMES KREUTZ | LO Assistance | |
| 34 | WANEK, THOMAS A ETUX | LO Assistance | |
| 35 | BISH, DERYL A | LO Assistance | |
| 36 | MANION ETAL, VICKI MARIE | LO Assistance | |
| 37 | WENDT, TYSON | LO Assistance | |
| 38 | MAILAHN, KAILA | LO Assistance | |
| 39 | OBERMEIER, KARLA K | LO Assistance | |
| 40 | HAPPOLD, ROGER M SHIRLEY F HAPPOLD | LO Assistance | |
| 41 | HOELCK, NADEAN ANN | LO Assistance | |
| 42 | BRUMMUND, GAIL E AUDREY M BRUMMUND | LO Assistance | |
| 43 | J LAUTENSCHLAGER PROPERTIES LLC PINNALCE BANK, TRUSTEE | LO Assistance | |
| 44 | CONSRUCK, RONALD L ETUX | LO Assistance | |
| 45 | HAPPOLD FARMS INC % STEVE HAPPOLD | LO Assistance | |
| 46 | LIESINGER FARMS INC C/O LARRY LIESINGER | LO Assistance | |
| 47 | WINSLOW, SHEILA I | LO Assistance | |
| 48 | LWT LTD % T-L IRRG CO | LO Assistance | |
| 49 | ASKEY FARMS INC % JAMES ASKEY | LO Assistance | |
| 50 | FOUR O FARMS INC C/O ROGER OLSEN | LO Assistance | |
| 51 | FOUR O FARMS INC C/O RITA OLSEN | LO Assistance | |
| 52 | J D LAND LLC % DAVID B HOFFMAN | LO Assistance | |
| 53 | BREITENFELDT FARMS INC % STEVE BREITENFELDT | LO Assistance | |
| 54 | SULLIVAN, JUDITH A | LO Assistance | |
| 55 | MANION ETAL, VICKI MARIE | LO Assistance | |
| 56 | CONSRUCK, GARY J | LO Assistance | |

SECTION IV PART F. SAFTEY PERSONNEL AND OTHER AGENCIES: List name and phone number at time of plan development; record date as notification occurs.

| Name | | Phone Number | Date Notified |
|-------------------------------------|---------------------------|----------------|---------------|
| FIRE DEPARTMENTS | | | |
| Primary Department: | Giltner Rural Fire Dept. | (402) 849-2999 | |
| Chief (Name): | N/A | N/A | |
| Mutual Aid Fire Departments: | Doniphan Rural Fire Dept. | (402) 845-6647 | |



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| | | | | |
|---|--------------------------------------|-----------------------|---------------------|----------------------|
| Mutual Aid Fire Departments: | | Trumbull VFD | (402) 743-2200 | |
| LAW ENFORCEMENT | | | Phone Number | Date Notified |
| Sheriff's Name: | | Jeromy McCoy | 402-694-6936 | |
| State Patrol: | | Troop C- Grand Island | 911 | |
| UTILITY or OIL and GAS, GAS PIPELINE, and/or WIND ENERGY COMPANIES | | | Phone Number | Date Notified |
| A. | Tallgrass Energy (John Melton) | | 308-991-6671 | |
| B. | Southern Public Power District | | 1-800-579-3019 | |
| C. | N/A | | | |
| EMERGENCY (NEAREST HOSPITAL AND EMERGENCY AMBULANCE SERVICE) | | | | |
| A. | Grand Island Regional Medical Center | | 911 | |
| B. | CHI Health St. Francis | | 911 | |
| C. | Memorial Hospital | | 911 | |



SECTION V - FIRE PLAN - IMPLEMENTATION OF PRESCRIBED BURN

SECTION V PART A. ENVIRONMENTAL CONDITIONS NEEDED TO ACCOMPLISH OBJECTIVES

- Planned Date Range for Burn: 8/1/2021 through 9/15/2021
(Time of year and/or stage of plant growth that will best meet prescribed burn objectives)
- List pertinent fuel conditions that could impact success of burn. Actively growing vegetation and wetland conditions.
- List other plant or animal concerns (Migratory Bird Treaty Act, Threatened and Endangered Species, etc.):
During the Whooping Crane migration (Fall: 10/9- 11/15; Spring: 3/6- 4/29), the following conservation conditions will be observed: Survey project each day within one hour of start of workday, with at least one survey done no later than 10 am. Record start and stop time. Survey area within 0.5 miles (Not a sufficient distance if this protocol were to be used during operation of a wind farm) of project using binoculars or spotting scope. Do not start work. Contact the Commission or the U.S. Fish and Wildlife Service (Service) for further instruction.
Stop work if seen at times other than the morning survey, and contact the Commission and the Service, as above .
Work can begin or resume if birds move off and are greater than 0.5 miles from the construction/activity area; record sighting, bird departure time, and work start time on survey form. [This bullet may apply to construction of simple, linear, projects, but it's insufficient protection from operating wind farms.]
- Acceptable Weather Conditions for Prescribed Burn
Weather will be checked and recorded every 1/2 hour by person designated by Burn Boss. Conditions will be relayed to Burn Boss and crews. All ignition sequences and resource assignments may be adjusted at the discretion of the Burn Boss to respond to changing conditions. Obtain location and date specific weather forecast the morning of the burn. Check site and day specific forecasts including the hourly weather graph.

On the morning of the burn, print the current hourly weather graph and attach it to this plan.

- <http://forecast.weather.gov/gridpoint.php?site=oax> Omaha
- <http://forecast.weather.gov/gridpoint.php?site=gid> Hastings/Grand Island
- <http://forecast.weather.gov/gridpoint.php?site=lb> North Platte
- <http://forecast.weather.gov/gridpoint.php?site=cys> Panhandle (Cheyenne)

| WEATHER FACTOR | NRCS Max or Min Values | RANGE OF ACCEPTABLE CONDITIONS (From Low - To High) | | | ACTUAL CONDITIONS (From Low - To High) | | |
|---|------------------------|---|----|----|--|----|--|
| | | | to | | | to | |
| WIND SPEED | < 20 MPH | 5 | to | 15 | | to | |
| WIND DIRECTION | | Any | | | | | |
| REASON FOR WIND DIRECTION RESTRICTION IN THIS PLAN | | Plan written with a south wind. | | | | | |
| RELATIVE HUMIDITY | > 25% | 20 | to | 50 | | to | |
| IF ACCEPTABLE RH IS LESS THAN NE NRCS RECOMMENDED VALUE, LIST REASON FOR DEPARTURE FROM NRCS SPECIFICATIONS | | increase intensity to burn wetland acres | | | | | |
| AIR TEMPERATURE | <80° F | 35 | to | 80 | | to | |
| PLANNED SOIL MOISTURE (Dry, Damp, Wet) | | | | | | | |



NEBRASKA PRESCRIBED BURN MANAGEMENT PLAN

**NE-ECS-72
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| | | | | | | |
|---|-------------|-----------|-------------|--|-----------|--|
| Desired soil moisture content at surface (0-6") - dry, damp, wet: | dry | to | damp | | to | |
| Desired soil moisture content below surface (minimum of 6-12") - dry, damp, wet: | damp | to | wet | | to | |

When land is listed as in extreme or exceptional drought conditions in the National Drought Mitigation Center's US Drought Monitor, evaluate impact to desired plant community. If drought and fire will adversely impact plant growth, delay burning until soil moisture conditions are favorable.
<http://droughtmonitor.unl.edu/>



SECTION V PART B. FIRING METHOD OR IGNITION PLAN

1. Describe Firing Method/Firing Sequence (backing fire, flank fire, head fire, strip fire, etc.) below or attach a sheet with this information to the back of this form. Using numbers or letters, designate the firing sequence on the burn plan map and describe in detail.

The following description is considered just a simplified guide on how to burn this particular burn unit and is based off an idealized south wind direction and should not be considered a literal step by step or play by play. The burn boss and crew bosses will have full discretion on the burn day to dictate how it is actually burned according to wind direction, personnel, and local conditions. The planner assumes no liability that arises due to the actions taken on the actual burn and assumes that the burn boss and crew are experienced enough to lead burns of this complexity. This fire will be completed using a Ring Fire technique. With a south wind, Crew 1 and Crew 2 will meet at point A and position. Crew 1 will head southeast and crew 2 heading southwest (placement of engines and additional water tanks will be decided once on site). A phone call will be placed to the Hamilton county sheriffs office to let them know we are about burn. A test fire will be lit to determine smoke behavior and behavior of dormant grass fuels. The burn boss will then make the call to GO/NO-GO. IF the burn boss gives the go signal, Crew 1 will proceed along the east fireline lighting off a mowed wet line, towards point B and HOLD at point B. Crew 2 will proceed along the west control line towards point D lighting off a mowed wet line. Follow up ATV/UTVs will be utilized to watch for any spotfires for each crew (Crew 1 and Crew 2). Once crew 1 reaches point B and crew 2 reaches point D they will need to STOP and wait for an adequate black line. Stripping head fires may be used throughout the burn with the Burn Boss's instruction. When adequate black line is established, and both crews are ready, crew 1 and crew 2 will proceed to point C, where they will have completed the Ring of Fire.

SECTION V PART C. CONTINGENCY PLANS

1. ESCAPE RESPONSE

Designate an Initial Attack suppression unit from each team as first responder to an escape on each side of the burn unit. Escapes or spot fires should first be attacked or approached ONLY FROM THE UPWIND SIDE by any unit or personnel. With safety as the highest priority, designated units and spotters/patrol units will respond initially to suppress any fire outside the unit. The Burn Boss will be immediately alerted of the situation, and kept informed of progress. If the initial efforts at containment are unsuccessful, the Burn Boss may order all ignitions to cease and assign additional units to respond to the escape. All other units may hold original positions. **The Burn Boss will be responsible for contacting local fire chief if deemed necessary to contain the escape.** List any site specific escape responses:

For contingency control lines, utilize the county roads for defense outlined on the contingency map. For an offensive attack, that will be left to the decision of the burn boss to react according to the situation at hand.

2. WIND CHANGE RESPONSE - Attach details of site specific contingency plan actions

If the team experiences a sustained major wind direction shift during the burn, the Burn Boss will evaluate the feasibility of safely continuing the burn compared to extinguishing the burn. Resources and personnel will be reassigned appropriately at the discretion of the Burn Boss. Safety of the crew will remain the primary concern. List any site specific responses to wind changes:

For safety, move to the black, designated safety zone, or the county roads unless instructed by the burn boss otherwise.



SECTION V PART D. SMOKE MANAGEMENT

1. SMOKE DISPERSION VALUE

Smoke behavior forecasts can be obtained from the following National Weather Service Websites:

EASTERN NEBRASKA: <http://www.crh.noaa.gov/product.php?site=OAX&product=FWF&issuedby=OAX>

CENTRAL NEBRASKA: <http://www.crh.noaa.gov/product.php?site=GID&product=FWF&issuedby=GID>

WESTERN NEBRASKA: <http://www.crh.noaa.gov/product.php?site=LBF&product=FWF&issuedby=LBF>

PANHANDLE: <https://www.weather.gov/cys/fire>

PLANNED SMOKE DISPERSION VALUE (poor, fair, good, excellent): good

ESTIMATED TIME FROM IGNITION UNTIL FIRE IS OUT: 1 Hours

ADDITIONAL COMMENTS REGARDING SMOKE MANAGEMENT:

SECTION V PART E. MOP-UP PLAN

MOP UP STANDARDS: Patrol entire perimeter of burned area, put out all flames and smoke within 50 feet of burn line, all heavy fuels within 100 feet of burn line and all snags within 150 feet of burn line. Pay special attention to smoldering leaf/litter, dung pats, woody debris and other coarse fuels.

General Mop-up Plan: Maintain close observation of the burned area and of weather conditions for a time period appropriate for fuels present in the burn area or until the fire is completely extinguished. Take immediate positive action to ensure safety should a dangerous change in weather be forecast. Observation times: Light Fuels (grass only): 12 hours; Moderate Fuels (grass and/or shrubs): 24 hours; Heavy Fuels (trees with grass/shrubs): 72 hours

List Burn Specific Mop-up items below:

Any smoldering objects should be brought to the middle of the burn unit or extinguished completely.

Person responsible for mop-up: _____

Date completed: _____



SECTION V PART F. EQUIPMENT AND PERSONNEL NEEDS (DEVELOP CREW ASSIGNMENTS BEFORE BURN)

Before the planned date of the burn, develop list of personnel assigned to the positions required for the burn. The list will include contact information (email addresses &/or phone numbers) using the example "Crew Roster" or an equivalent that includes all needed information. The list will be available for the pre-burn briefing and during the briefing, ensure that all assigned personnel are familiar with their assigned job duties.

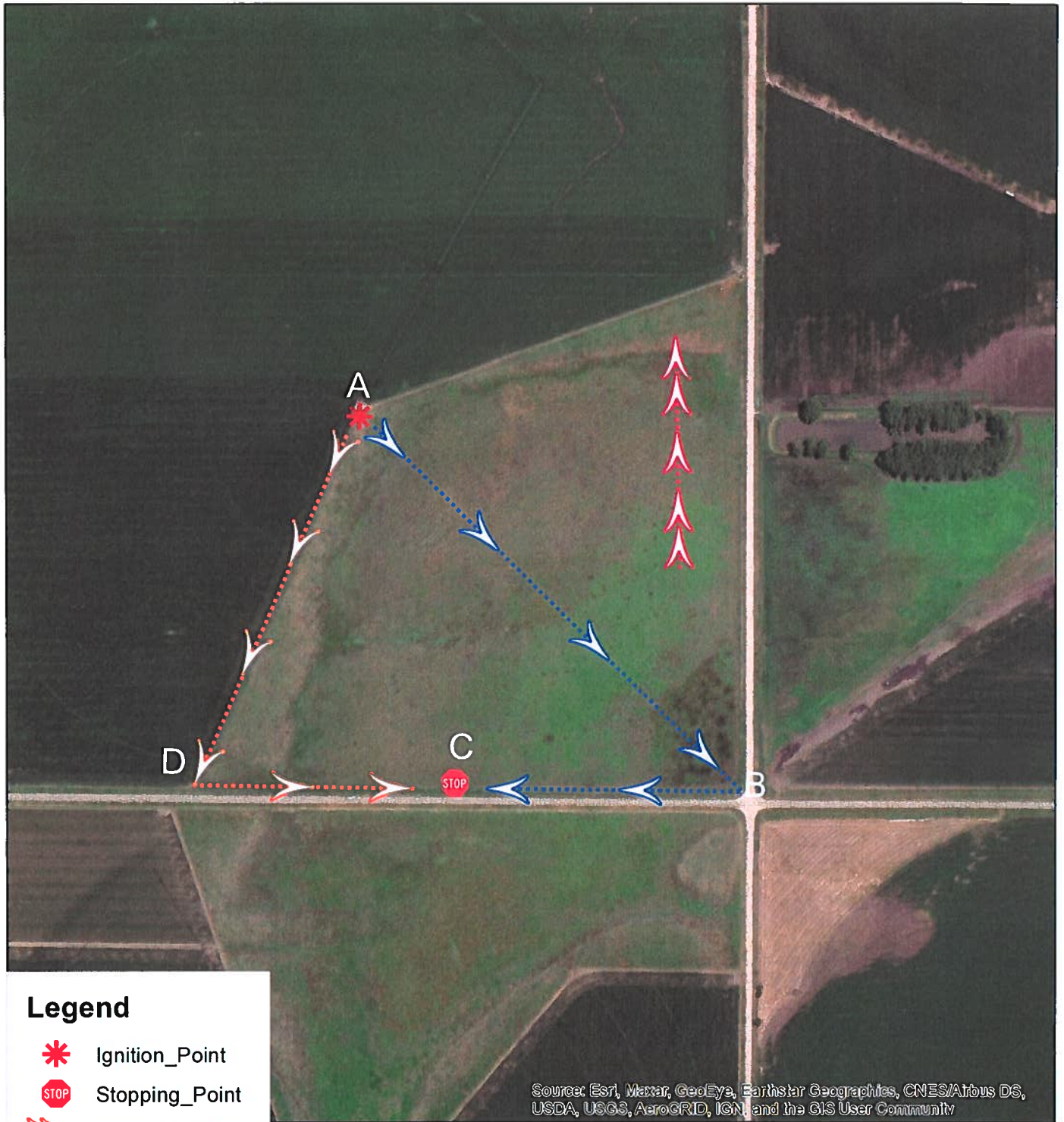
Attach a copy of the personnel roster to the burn plan after completion of the burn as part of the documentation of the prescribed burn.

| TYPE OF EQUIPMENT | NUMBER AND/OR GALLONS NEEDED | | Personnel Needed (Job Type) | Number of Personnel | |
|-----------------------------------|------------------------------|--|--|------------------------------------|---|
| Engines/Pumpers | 2 | | 1. Burn Boss | 1 | |
| Number & Size in Gallons | 250+ gal/each | | Crew Boss | 2 | |
| Water Tenders / Storage Tank(s) | 1 | | | crew boss may perform below duties | |
| Number & Size in Gallons | 800+ gal | | | | |
| ATV's / UTV's w/Sprayers | 2 | | | | |
| Number and Size in Gallons | 25+ gal/each | | | | |
| Additional ATV's/UTV's | N/A | | | Pumper Driver | 2 |
| Drip Torches | 2 | | | ATV/UTV | 2 |
| Torch Fuel (gallons) | 10+ | | | Wetliner | 2 |
| 70%/30% Diesel fuel/gasoline | | | | Ignitor | 2 |
| Backpack Sprayers | N/A | | | | |
| Fire-Weather Kit, i.e. Kestrel | 1 | | | | |
| Highway Flaggers / Signs | 2+ | | | | |
| Flappers | N/A | | | | |
| Rakes | 2 | | | | |
| Chainsaws | N/A | | | | |
| Shovels | 2 | | | | |
| Drinking Water, 1 gallon / person | 1 gal/person | | | | |
| Matches/Lighter | 1 | | | | |
| Burn Unit Maps | 1/person | | | | |
| Additional Items (List): | Radios: 1/person | | | | |
| | | | | | |
| | | | | | |
| | | | Total Number of Personnel Needed: | 9 | |
| | | | Name of Burn Boss: | | |
| | | | Numer of Teams / Crews: | 2 | |

Customer(s): Gayle Marsh
District: Upper Big Blue NRD
Legal: SE4 6-9-8W

Field Office: GRAND ISLAND
Agency: USDA-NRCS
Assisted by: Trent Findley

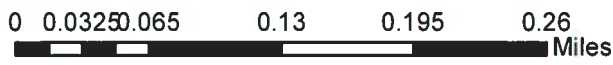
Ignition



Legend

- Ignition_Point
- Stopping_Point
- Crew_2_Ignition
- Crew_1_Ignition
- Wind_Direction

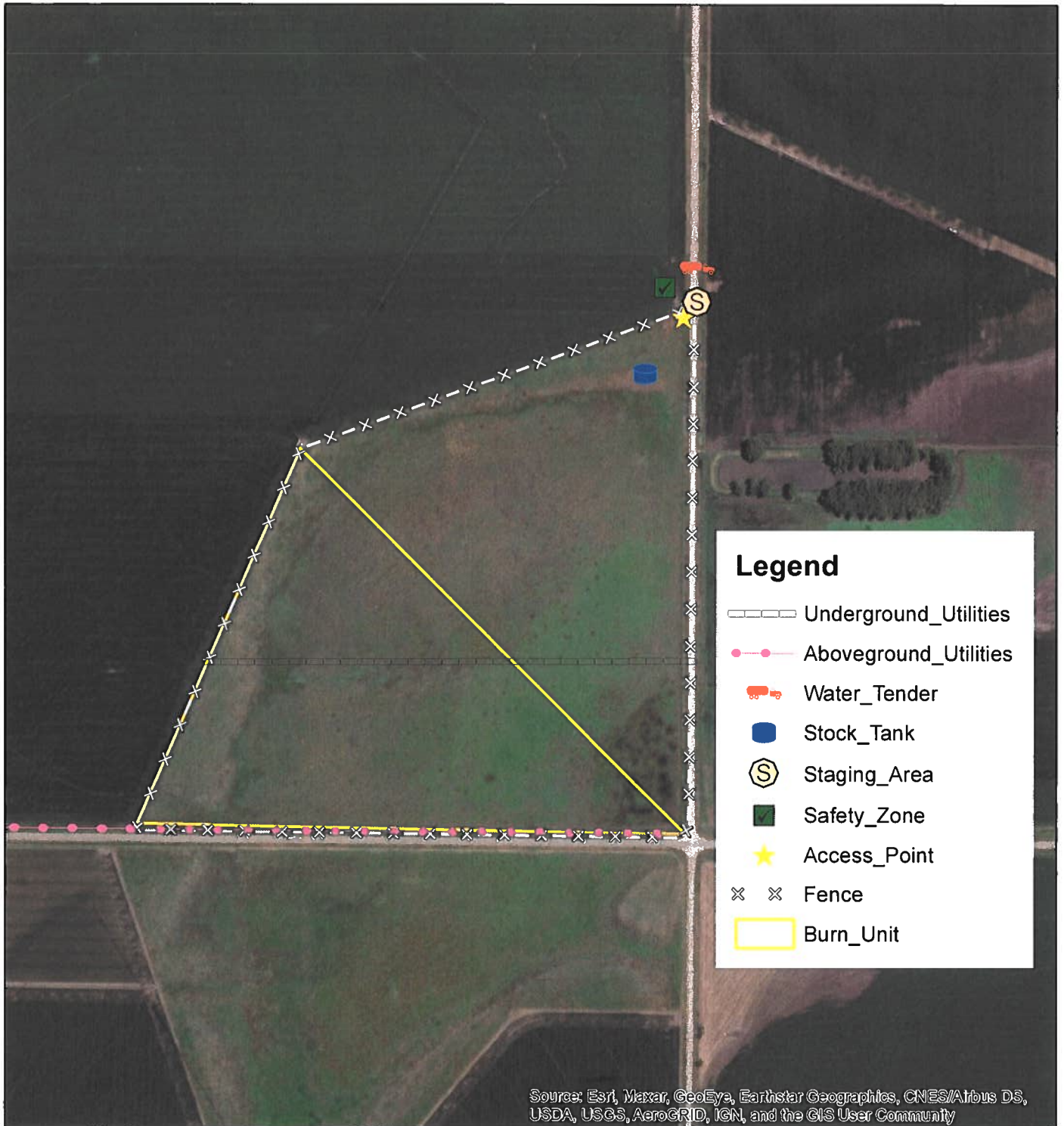
Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Customer(s): Gayle Marsh
District: Upper Big Blue NRD
Legal: SE4 6--9-8W

Field Office: GRAND ISLAND
Agency: USDA-NRCS
Assisted by: Trent Findley

Access & Obstructions



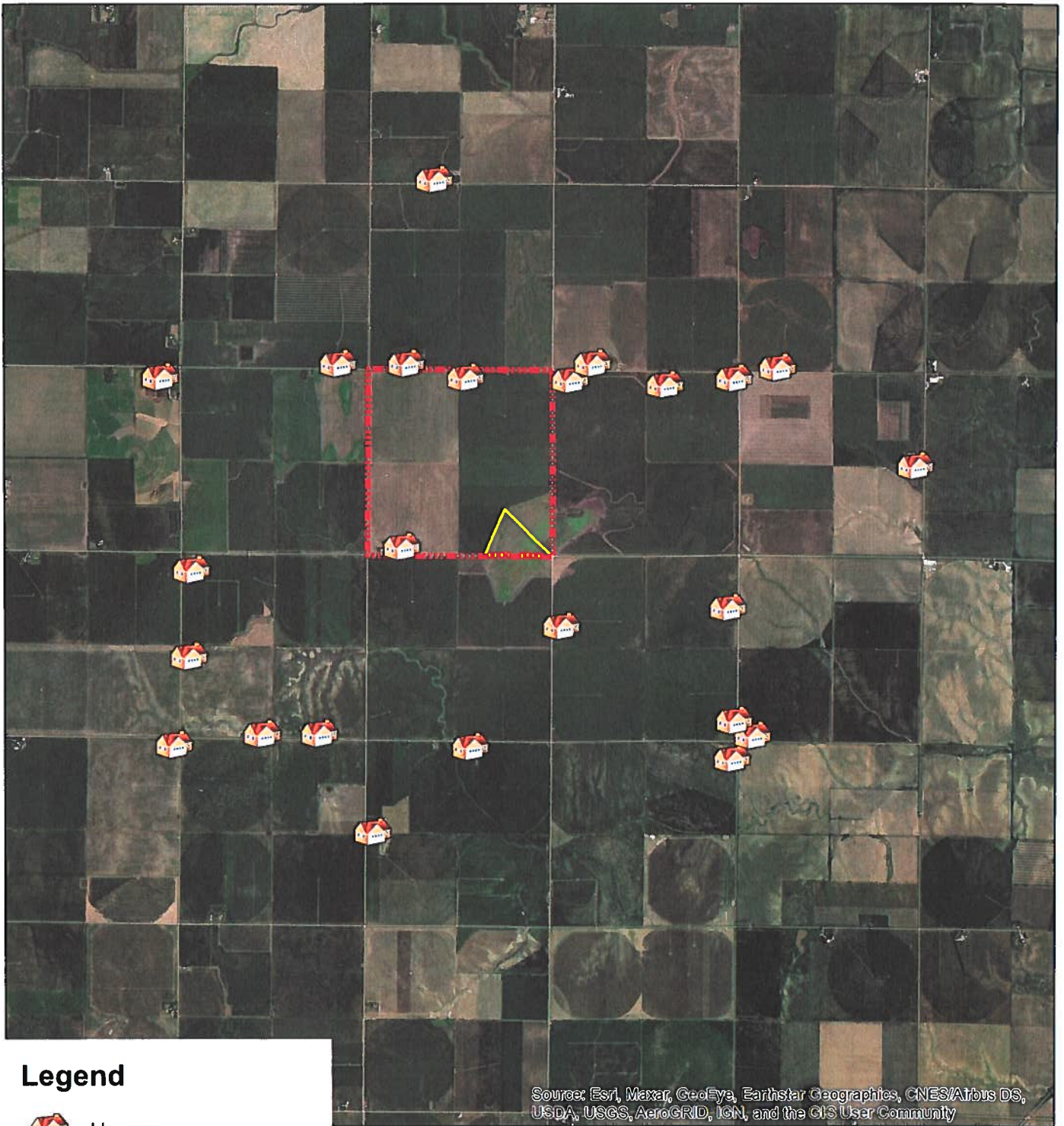
0 0.03250.065 0.13 0.195 0.26 Miles



Customer(s): Gayle Marsh
District: Upper Big Blue NRD
Legal: SE4 6-9-8W

Field Office: GRAND ISLAND
Agency: USDA-NRCS
Assisted by: Trent Findley

Contingency



Legend



House



Contingency_Firebreak



Burn_Unit

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

0 0.275 0.55 1.1 1.65 2.2 Miles



Customer(s): Gayle Marsh
District: Upper Big Blue NRD
Legal: SE4 6--9-8W

Field Office: GRAND ISLAND
Agency: USDA-NRCS
Assisted by: Trent Findley

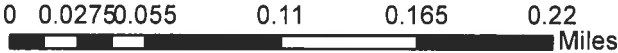
Control Lines



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

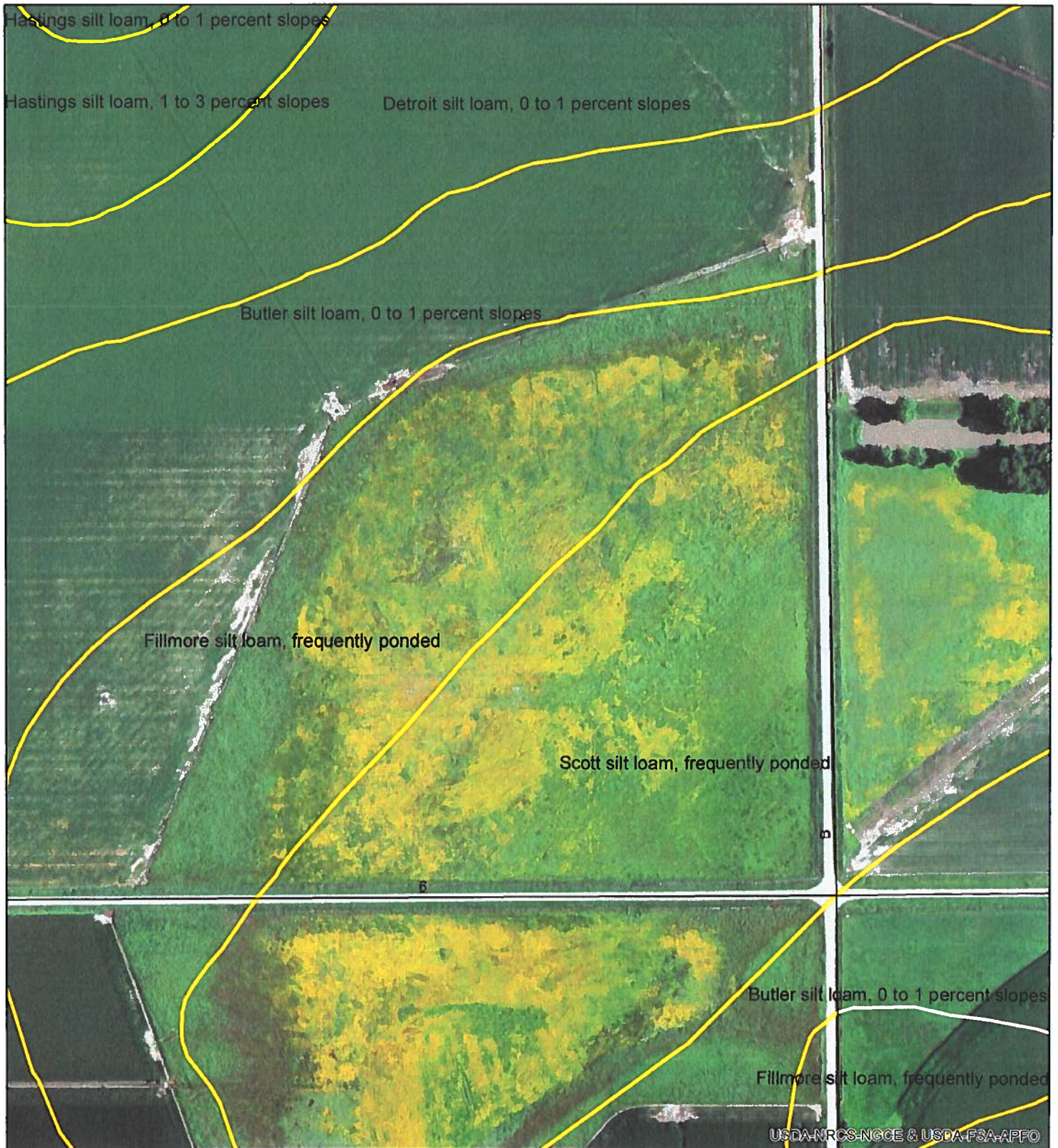
----- Mowed_Firebreak



Customer(s): Gayle Marsh
District: UBBNRD
Legal: SE4 6-9-8W
County: Hamilton

Field Office: GRAND ISLAND
Agency: USDA-NRCS
Assisted by: Trent Findley

Marsh's Soils



0 0.0275 0.055 0.11 0.165 0.22 Miles



Customer(s): Gayle Marsh
District: UBBNRD
Legal: SE4 6-9-8W
County: Hamilton

Field Office: GRAND ISLAND
Agency: USDA-NRCS
Assisted by: Trent Findley

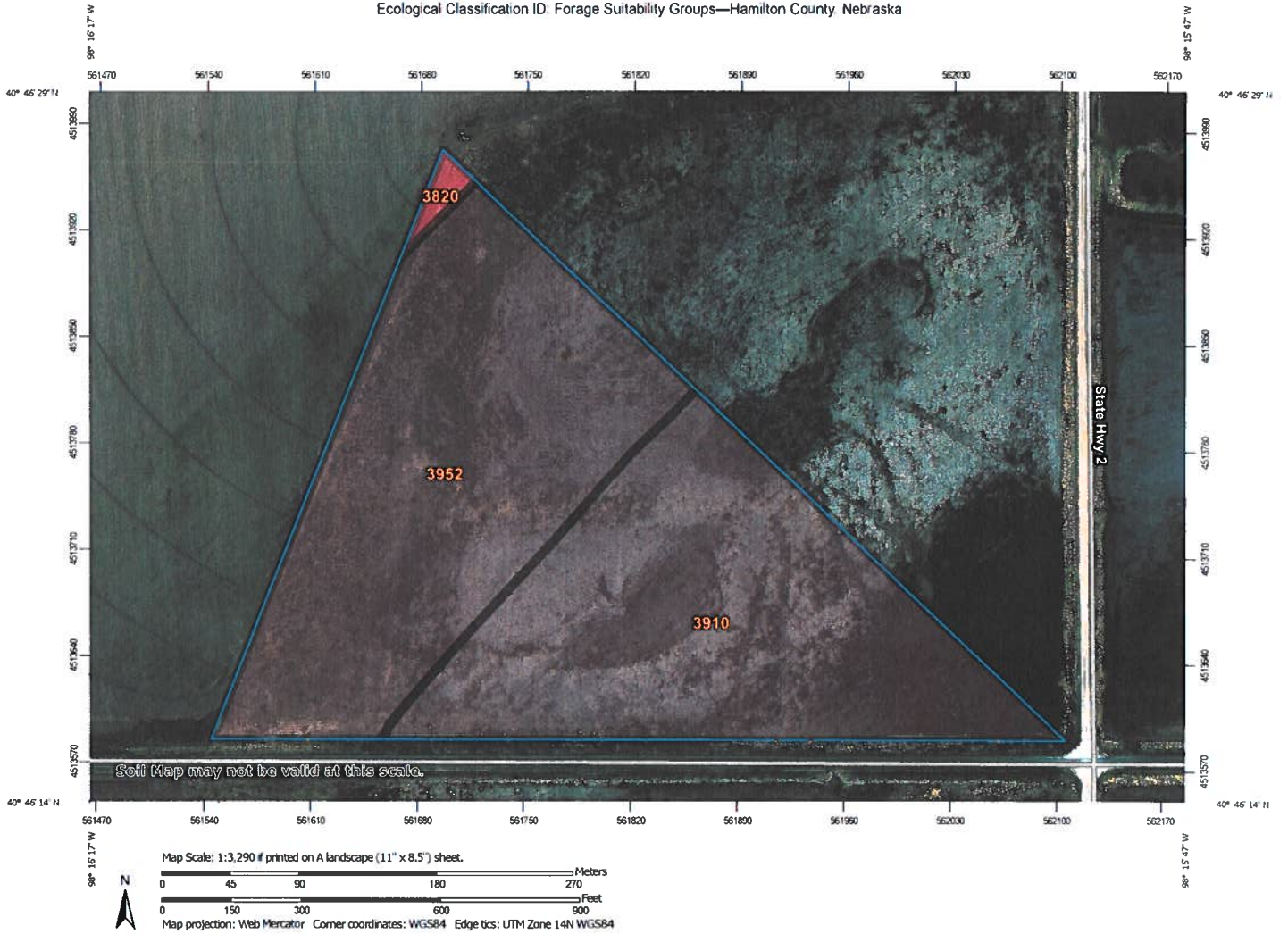
Topography


















0 0.02750.055 0.11 0.165 0.22 Miles



Ecological Classification ID Forage Suitability Groups—Hamilton County, Nebraska



MAP LEGEND

- Area of Interest (AOI)**
 Area of Interest (AOI)
- Soils**
- Soil Rating Polygons**
 G075XY900NE
 G075XY910NE
 Not rated or not available
- Soil Rating Lines**
 G075XY900NE
 G075XY910NE
 Not rated or not available
- Soil Rating Points**
 G075XY900NE
 G075XY910NE
 Not rated or not available
- Water Features**
 Streams and Canals
- Transportation**
 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads
- Background**
 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG 3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hamilton County, Nebraska
 Survey Area Data: Version 19, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 2, 2015—Mar 2, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Ecological Classification ID: Forage Suitability Groups

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|------------------------------------|---|-------------|--------------|----------------|
| 3820 | Butler silt loam, 0 to 1 percent slopes | G075XY900NE | 0.3 | 1.0% |
| 3910 | Scott silt loam, frequently ponded | G075XY910NE | 13.1 | 48.6% |
| 3952 | Fillmore silt loam, frequently ponded | G075XY910NE | 13.6 | 50.5% |
| Totals for Area of Interest | | | 27.0 | 100.0% |

Description

Ecological classifications consist of a series of vegetative classification systems developed by various partners in the National Cooperative Soil Survey. The classifications include, but are not limited to, systematic vegetative groupings. Examples include NRCS ecological sites, United States Forest Service plant associations, and forage suitability groups. The classifications systems are identified by the Ecological Classification Type Name field, which is in the Component Ecological Classification table.

Rating Options

Class: Forage Suitability Groups

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Lower



SECTION VI - PRESCRIBED BURN EVALUATION (Complete immediately after burn has been conducted)

- 1. Burn Unit Name: _____
- 2. Acres Burned: _____ 3. Date Burned: _____
- 4. Beginning Time of Burn: _____
- 5. Describe Observed Weather Changes During Burn:

6. Fire Behavior: None _____ Few _____ Many _____
- a. Spotting Yes _____ No _____
 - b. Difficulty to Control Yes _____ No _____
 - c. Convection Column Yes _____ No _____
 - d. Fire Whirls Yes _____ No _____
 - e. Other Comments

- 7. Time Mop-up Was Completed: _____
- 8. Objective of Burn Was Met: Yes _____ No _____

Evaluation completed by: _____
Signature Date

Prescribed Burn Planner Information:

Prescribed burn plans may be developed by individuals with knowledge of prescribed burning including but not limited to: Technical Service Providers, NRCS, FB Biologists, NE Game and Parks, or landowners/operators. Plan approval process will vary with burn planner status.

Plan Developed by (Print Name): Trent Findley

Company or Organization (if applicable): NRCS

Trent Findley 8/11/2021
Signature of Person Who Developed Plan *Date*

LANDOWNER CERTIFICATION:

As the owner/operator, I, as the decision maker have been involved in the planning process for this prescribed burn management plan. I have been informed that I could be liable for damages and the cost of fire suppression should the fire escape from the designated area as a result of this prescribed burn. No substitutions are allowed without the approval of the individuals who developed and/or approved the prescribed burn plan.

X Gayle Marsh _____ _____
Landowner Name (Print) *Landowner Signature* *Date*



SECTION V - FIRE PLAN - IMPLEMENTATION OF PRESCRIBED BURN

SECTION V PART A. ENVIRONMENTAL CONDITIONS NEEDED TO ACCOMPLISH OBJECTIVES

1. Planned Date Range for Burn: 8/1/2021 through 9/15/2021
(Time of year and/or stage of plant growth that will best meet prescribed burn objectives)
2. List pertinent fuel conditions that could impact success of burn. Actively growing vegetation and wetland conditions.
3. List other plant or animal concerns (Migratory Bird Treaty Act, Threatened and Endangered Species, etc.):
During the Whooping Crane migration (Fall: 10/9- 11/15; Spring: 3/6- 4/29), the following conservation conditions will be observed: Survey project each day within one hour of start of workday, with at least one survey done no later than 10 am. Record start and stop time. Survey area within 0.5 miles [Not a sufficient distance if this protocol were to be used during operation of a wind farm] of project using binoculars or spotting scope. Do not start work. Contact the Commission or the U.S. Fish and Wildlife Service² (Service) for further instruction.
Stop work if seen at times other than the morning survey, and contact the Commission and the Service, as above .
Work can begin or resume if birds move off and are greater than 0.5 miles from the construction/activity area; record sighting, bird departure time, and work start time on survey form. [This bullet may apply to construction of simple, linear, projects, but it's insufficient protection from operating wind farms.]
4. Acceptable Weather Conditions for Prescribed Burn
Weather will be checked and recorded every 1/2 hour by person designated by Burn Boss. Conditions will be relayed to Burn Boss and crews. All ignition sequences and resource assignments may be adjusted at the discretion of the Burn Boss to respond to changing conditions. Obtain location and date specific weather forecast the morning of the burn. Check site and day specific forecasts including the hourly weather graph.

On the morning of the burn, print the current hourly weather graph and attach it to this plan.

- <http://forecast.weather.gov/gridpoint.php?site=oax> Omaha
- <http://forecast.weather.gov/gridpoint.php?site=gid> Hastings/Grand Island
- <http://forecast.weather.gov/gridpoint.php?site=lbf> North Platte
- <http://forecast.weather.gov/gridpoint.php?site=cys> Panhandle (Cheyenne)

| WEATHER FACTOR | NRCS Max or Min Values | RANGE OF ACCEPTABLE CONDITIONS (From Low - To High) | | | ACTUAL CONDITIONS (From Low - To High) | | |
|---|------------------------|---|----|-----|--|----|--|
| | | | to | | | to | |
| WIND SPEED | < 20 MPH | 5 | to | 15 | | to | |
| WIND DIRECTION | | Any | | | | | |
| REASON FOR WIND DIRECTION RESTRICTION IN THIS PLAN | | Plan written with a south wind. | | | | | |
| RELATIVE HUMIDITY | > 25% | 30 | to | 60 | | to | |
| IF ACCEPTABLE RH IS LESS THAN NE NRCS RECOMMENDED VALUE, LIST REASON FOR DEPARTURE FROM NRCS SPECIFICATIONS | | increase fire intensity to burn out wetland | | | | | |
| AIR TEMPERATURE | <80° F | 35 | to | 100 | | to | |
| PLANNED SOIL MOISTURE (Dry, Damp, Wet) | | | | | | | |



NEBRASKA PRESCRIBED BURN MANAGEMENT PLAN

**NE-ECS-72
June, 2018**

| | | | | | | |
|--|-------------|-----------|-------------|--|-----------|--|
| Desired soil moisture content at surface (0-6") - dry, damp, wet: | dry | to | damp | | to | |
| Desired soil moisture content below surface (minimum of 6-12") - dry, damp, wet: | damp | to | wet | | to | |

When land is listed as in extreme or exceptional drought conditions in the National Drought Mitigation Center's US Drought Monitor, evaluate impact to desired plant community. If drought and fire will adversely impact plant growth, delay burning until soil moisture conditions are favorable.
<http://droughtmonitor.unl.edu/>

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|---|---------------------------------------|
| County: Hamilton | Expiration Date: 12/31/2022 |
| Landowner/Rep (Name & Address): Eldon & Tina Marsh (c/o Gayle Marsh) 152 W 7 th Rd Doniphan NE 68832 | Contract No: 666526110151W |
| | Authorization No: |
| Purpose: To schedule for prescribed grazing. | |
| Land Description (Legal description and attached copy of map): SE 6-9-8W | |
| Beginning Condition of Site (7/1/2020): The upland area is a mix of grasses such as Virginia wildrye and big blue and forbs such as prairie coneflower, Maximilian sunflower, common milkweed, with some Kentucky bluegrass and Japanese brome. The wetland contains reed canary grass, sedges, giant ragweed, smartweeds, ironweed, barnyard grass and spikerush. There are trees scattered across the site. SW half was burned last year. | |
| State of Effect & Compatibility: Wetlands provide challenges for management due to their productivity. In the absence of regular disturbance plant communities can become dense and rank due to their prolific growth. Undesirable or invasive plant species can overwhelm other species. Grazing is vitally important for managing wetlands because it provides the needed disturbance that helps maintain a diverse plant community. If grazed correctly, targeted species can be suppressed, reducing their ability to compete enough to allow desirable plants to express themselves. | |
| Special Conditions (Specifications and other details of permitted activities.): Prescribed Grazing: <ol style="list-style-type: none"> 1. Landowner will follow the NRCS grazing plan. Site will be grazed by 12 cows at 50% utilization for up to 60 days, 2022 only. 2. Any deviations from the grazing plan will require the concurrence of the NRCS and will be documented in the grazing plan. 3. Annual grazing <u>is not</u> guaranteed. NRCS retains the right to alter annual grazing strategies to adjust to current ecological site condition and desired management results. 4. During drought years, the stocking rate must be reduced by 25%. Drought is defined as one or more months at a D2 (Severe Drought) or higher drought rating by the United States Drought Monitor. 5. This practice will begin in Summer 2022 after approval of State Office. | |

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

Recommended (NRCS Signature): KRISTI SCHLEIF Digitally signed by KRISTI SCHLEIF
Date: 2022.07.12 10:55:53 -05'00' Date: 7/2/2022

Title: Area Easement Specialist

Landowner or Representative (Signature): Hayle Moran Date: 7-12-22

Approved (NRCS Signature): BRADLEY SONCKSEN Digitally signed by BRADLEY
SONCKSEN
Date: 2022.07.24 19:31:47 -05'00' Date: _____

Title: ASTC/Programs

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

Grazing CUA Map

Client(s): ELDON D MARSH
Location: 55 ac SESE 6-9-8W
Hamilton County, Nebraska
Approximate Acres: 54.52

Assisted By: KS
USDA - NRCS
AURORA SERVICE CENTER
UPPER BIG BLUE NATURAL RESOURCES DISTRICT

Land Units: Tract 1, Fields 1



Prepared with assistance from USDA-Natural Resources Conservation Service

Conservation Practice Polygons



Prescribed
Grazing (528)



Practice Schedule
PLUs



UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|--|--------------------------------------|
| County: Hamilton County, NE | Expiration Date: 12-31-2021 |
| Landowner/Rep (Name & Address): Marsh Trust Ivan Marsh 903 S. D Rd. Giltner, NE 68841 | Contract No: 66-6526-11-00054 |
| | Authorization No: |
| Purpose: To allow the use of grazing, chemical, and mechanical measures, as well as install grazing infrastructure to control trees and other invasive species including noxious weeds. This will promote healthy native herbaceous upland and wetland plant communities. | |
| Land Description (Legal description and attached copy of map): 55 acres the SE ¼, 6-9-8W, Hamilton County | |
| Beginning Condition of Site: Post-restoration. The site is a mix of wetland and upland habitats with both native and non-native plant species present. Reed canarygrass is present in a few areas of the wetland. A few undesirable deciduous trees are present on site. Restoration was completed in 2013. | |
| State of Effect & Compatibility: Grazing and selective mechanical and chemical control of invasive species following label directions will result in a reduction of invasive species and allow more desirable plants to spread throughout the contract area. A reduction of invasive species will result in the further establishment of quality wetland habitat and improved wetland functions and values. All management practices will be documented in writing by the WRP/WRE Team Leader and will be provided to the landowner with the appropriate maps and jobsheets in conjunction with this CUA. | |

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Special Conditions (Specifications and other details of permitted activities. Attach copy of guidelines):

Grazing:

1. Adaptive grazing management is flexible management that incorporates management objectives and goals, plant physiology, and climate. Timing, duration, intensity and frequency of grazing are evaluated during annual monitoring.
2. Grazing of up to 50 pairs of cattle may occur for no more than 90 days between 1 April and 15 November after consultation with the WRP Team Leader. If grazing is desired for a longer period, a grazing plan will be needed through consultation with the WRP Team Leader.
3. For vegetative treatment using short-term high intensity grazing, a map showing the location, in and out dates, and maximum number of livestock will be provided.
4. Grazing strategies will contribute to the establishment and maintenance of quality wildlife habitat and other wetland functions and values of the site.

Fencing:

1. Permanent boundary fence built to NRCS specifications shall be permitted to aid in grazing management.
2. Temporary cross fence may be installed to target smaller units within the easement boundary to meet management objectives and provide vegetative heterogeneity.
3. Fencing will be acceptable once the Landowner has provided the Team Leader with his fencing plan.

Livestock Well and Tank:

1. Installation of one or more livestock wells and tanks will provide a reliable source of water for cattle grazing.
2. Livestock wells and tanks will be placed in upland portions of the easement.
3. Livestock wells are not to be used for the purpose of adding water to wetland areas.
4. All livestock wells and watering facilities shall be designed, installed, and constructed according to NRCS standards and specifications.
5. Livestock well and tank may be installed once Landowner has a design reviewed by the team leader.

Chemical and Mechanical Invasive Species Control:

1. Tree removal and disposal will be according to NRCS standards and specifications.
2. Spot spraying selective herbicides, selective cutting, and/or mowing shall be used to control invasive plants.
3. Herbicide selection shall be based on the targeted species with consideration of protecting native grasses, forbs, sedges, and other desirable plants species.
4. Timing of herbicide application and/or mowing will be so that it allows for the successful control of targeted species while limiting impact to non-target species.
5. Herbicides will be applied according to the label. The landowner is responsible for following all label requirements on herbicides.
6. Mechanical woody species removal will not be conducted April 1st – July 15th unless a nesting survey has been conducted according to USFWS protocol.
7. A jobsheet and map will be provided by the WRP/WRE Team Leader to specify where and when the invasive species will be controlled.
8. This CUA does not authorize the landowner to treat weeds that are not noxious weeds (state defined) or not considered undesirable. Many species deemed weedy in agricultural land, such as annual sunflowers, are beneficial to wildlife. Please contact the WRP Team Leader if you have any questions on what weeds need to be controlled or for technical assistance.
9. Noxious weeds are required by law to be controlled by the landowner.

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

Recommended (NRCS Signature): Nathan Welker Date: 4-12-16

Title: WRE/WRP Team Leader

Landowner or Representative (Signature): Debra H. H. H. Date: 4-12-16

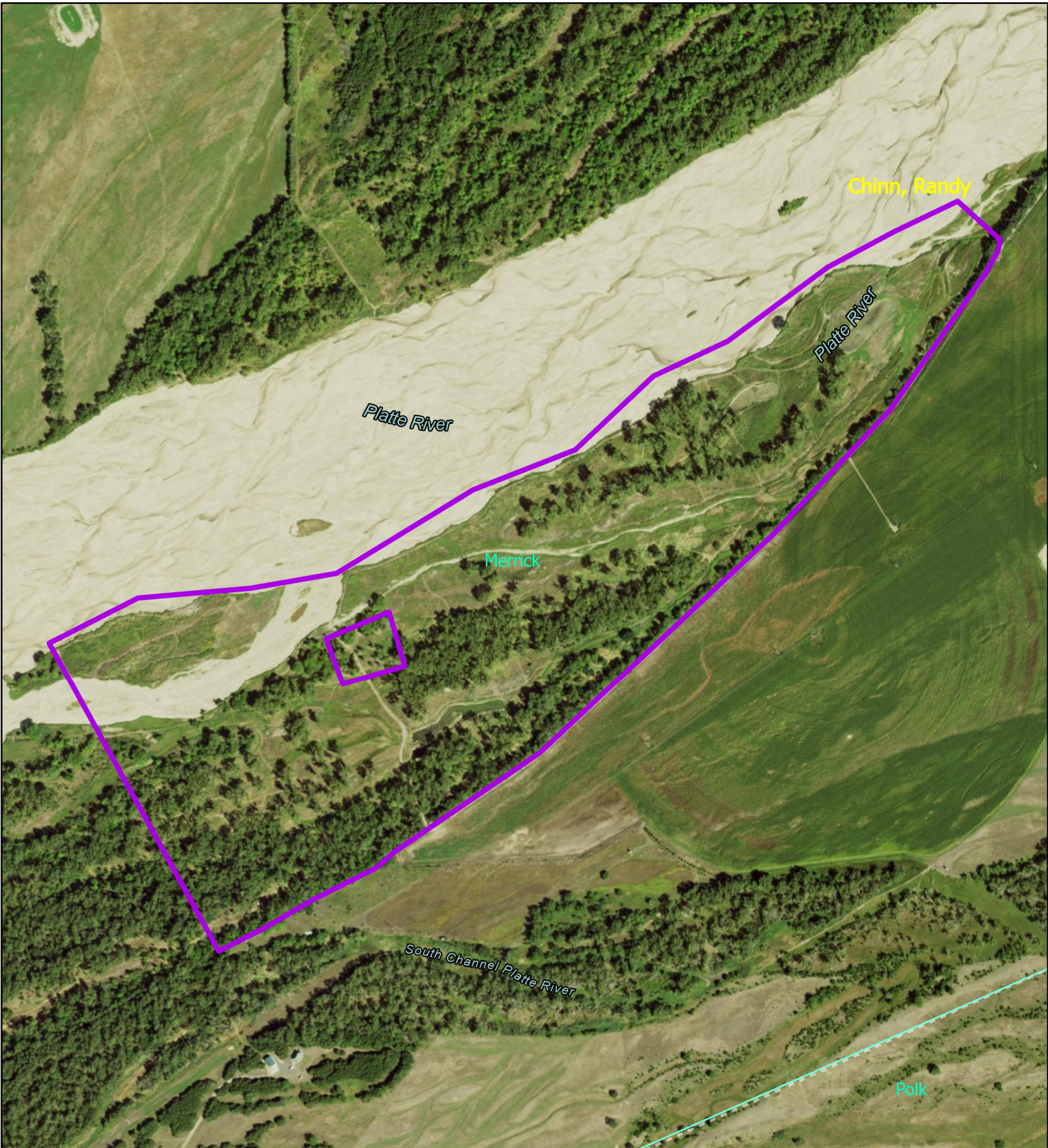
Approved (NRCS Signature): [Signature] Date: 4/18/16

Title: ASTC - Programs

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

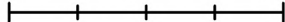
W-3
4/18/16

Randy Chinn



-  Site Boundary
-  Wetland Area
-  Road

0 0.07 0.15 Miles



NEBRASKA WETLANDS RESERVE PROGRAM

PRELIMINARY RESTORATION PLAN **

| | | | |
|-------------------|-------------------------------------|-----------------|-------------------------------|
| Landowner: | <u>Randall K Chinn Living Trust</u> | County: | <u>Merrick</u> |
| Address: | <u>1403 8th Street</u> | Tract #: | <u>3382</u> |
| | <u>Columbus NE 68601</u> | Legal: | <u>PI Section 35 T16N R3W</u> |
| | <u>Cell</u> | Site Ac: | <u>136</u> |
| | | Date: | <u>4/8/2013</u> |

LANDOWNER OBJECTIVES:
 Restore native grasslands, native wildlife habitat and wetlands to the fullest extent possible

TEAM OBJECTIVES:
 Restore native grasslands, native wildlife habitat and wetlands to the fullest extent possible

| FIELD # | PRACTICE | QUANTITY | EST. COST |
|---------|---|------------------------------------|---|
| W1 | 657 - Wetland Restoration | 136 acres | |
| | Site Prep. - tree removal, structural removal burn/bury, disking | 91.5 ac @ 1250 | \$ 114,375.00 |
| | Channel restoration - excavation only | 5.5 ac @ 5300 | \$ 29,150.00 |
| | 3300 ft channel @ 70 ft wide = 5.3 acres. | | |
| W1 | 340 - cover crop - oats for NPDES permit | 91.5 ac @ 45 | \$ 4,118.00 |
| W1 | 643 - Restoration of declining habitats | 91.5 ac @ ^{5400.00} 62.58 | \$ 80,827.00 \$36,600 |
| | seed, site prep. Seeding | | |

TOTAL ESTIMATED RESTORATION COST: ~~\$ 206,270.00~~ **\$184,243**

NOTES: 208270/136 = 1531 acre cost.

Please note that the Preliminary Restoration Plan is usually completed in the absence of all necessary information needed to finalize restoration plans, such as topographic surveys, biological surveys, and soils investigations. This can lead to changes in the planned activities, estimated quantities, and cost.

136 Ac = \$1354.73
 27 Ac

[Handwritten signature]

SIGNATURE & DATE - LANDOWNER: Randall K. Chinn 4/10/2013

NRCS: jon.myers@usda.gov Digitally signed by jon.myers@usda.gov
 DN: cn=jon.myers@usda.gov
 Date: 2013.04.08 13:57:53 -05'00'

FWS/NG&P: See attached

**** Attach photo with easement boundaries and practice locations identified.**

[Handwritten signature] 4-10-2013



Date: 2/9/2015

WRP RESTORATION MAP Phase 1

Customer(s): RANDALL K CHINN LIVING TRUST

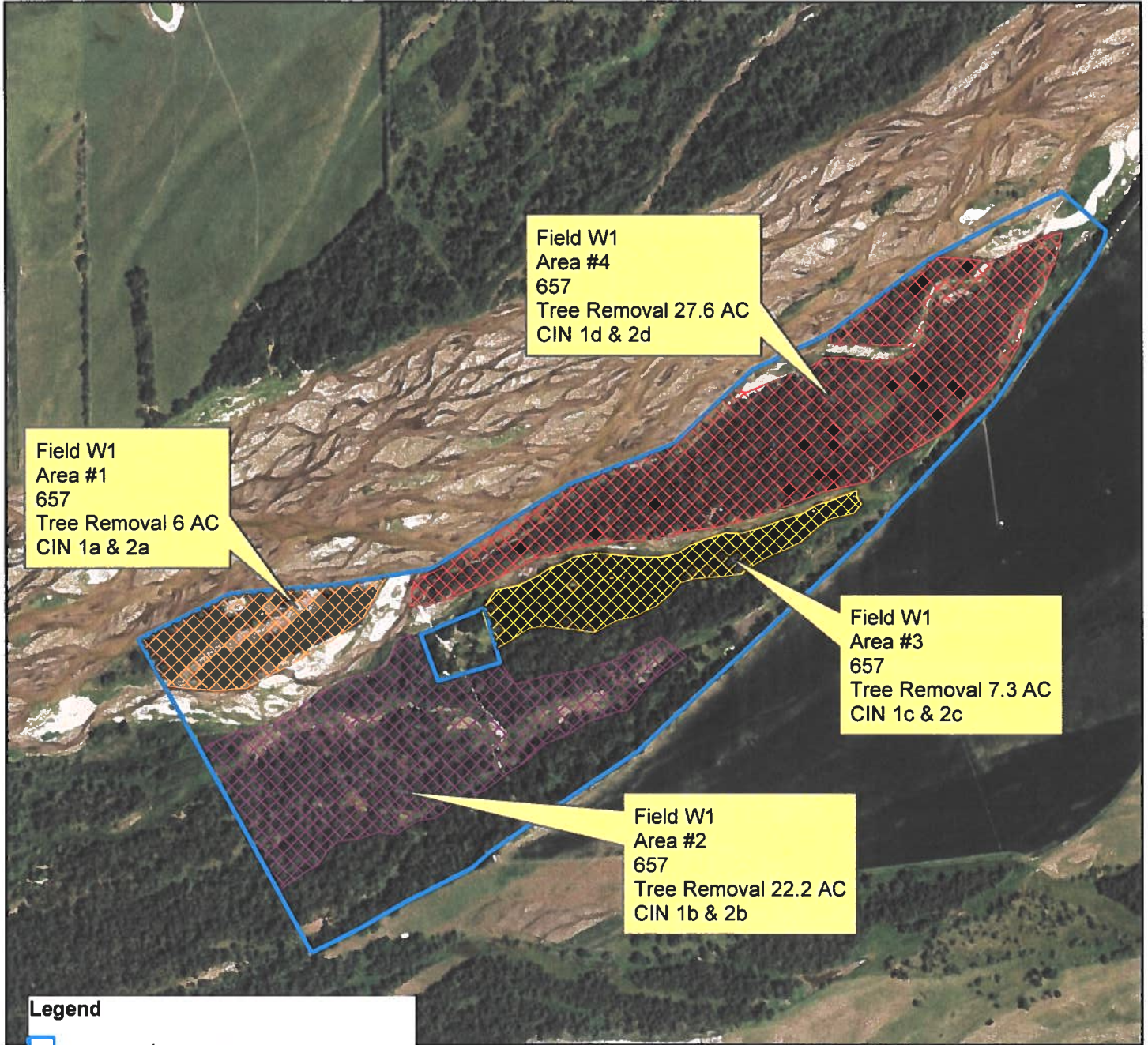
Approximate Acres: 102.5

Legal Description: 35-16-3W

Agency: USDA NRCS

Assisted By: JEREMY JIRAK

Field Office: GRAND ISLAND SERVICE CENTER



Legend

easements_a_ne

Wetland Restoration: Tree Removal

ACRES

6.0

7.3

22.2

27.6

NAIP

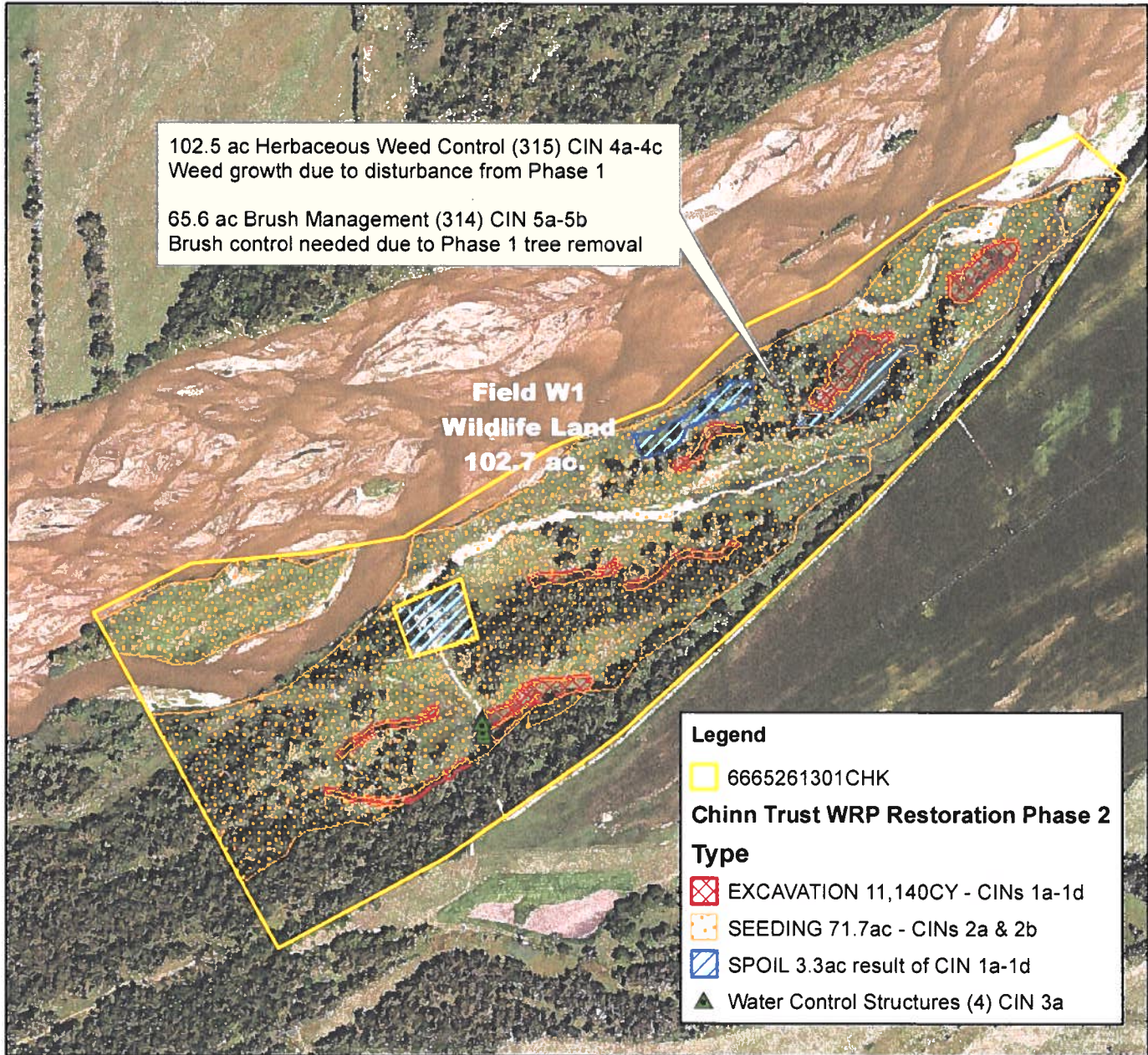


WRP RESTORATION MAP Phase 2

Date: 6/15/2017

Customer(s): RANDALL K CHINN LIVING TRUST
 Approximate Acres: 102.7
 Legal Description: 35-16-3W

Field Office: GRAND ISLAND SERVICE CENTER
 Agency: USDA NRCS
 Assisted By: NATHAN WALKER
 State and County: Merrick County, Nebraska



Prepared with assistance from USDA-Natural Resources Conservation Service



I, NATE GARRETT, HEREBY CONFIRM THE PROJECT WAS CONSTRUCTED AS SHOWN IN THE ENCLOSED AS-BUILT PLANS AND SPECIFICATIONS TITLED "RANDALL & GAY CHINN WRP" AND THAT THE AS-BUILT QUANTITIES ARE CORRECT;*

PROJECT CONSTRUCTION COMPLETION 8/6/2018.

I FURTHER CERTIFY I HAVE APPROPRIATE CONSTRUCTION JOB APPROVAL AUTHORITY FOR THIS PROJECT.

SIGNATURE:

NATHAN GARRETT

Digitally signed by NATHAN
GARRETT

Date: 2018.08.06 13:26:28 -05'00'

CONSTRUCTION CERTIFICATION

** THIS MAY INCLUDE VARIOUS FIELD ADJUSTMENTS AND CONTRACT METHODS INCLUDING PAYMENT BASED ON PLANNED QUANTITIES.*



Date: 10/28/2013

WRP PRELIMINARY BOUNDARY SURVEY 66-6526-13-01CHK

Customer(s): RANDALL K CHINN LIVING TRUST

Land Units: T3382

Approximate Acres: 110

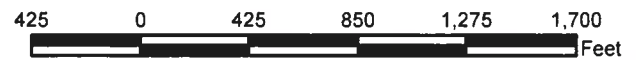
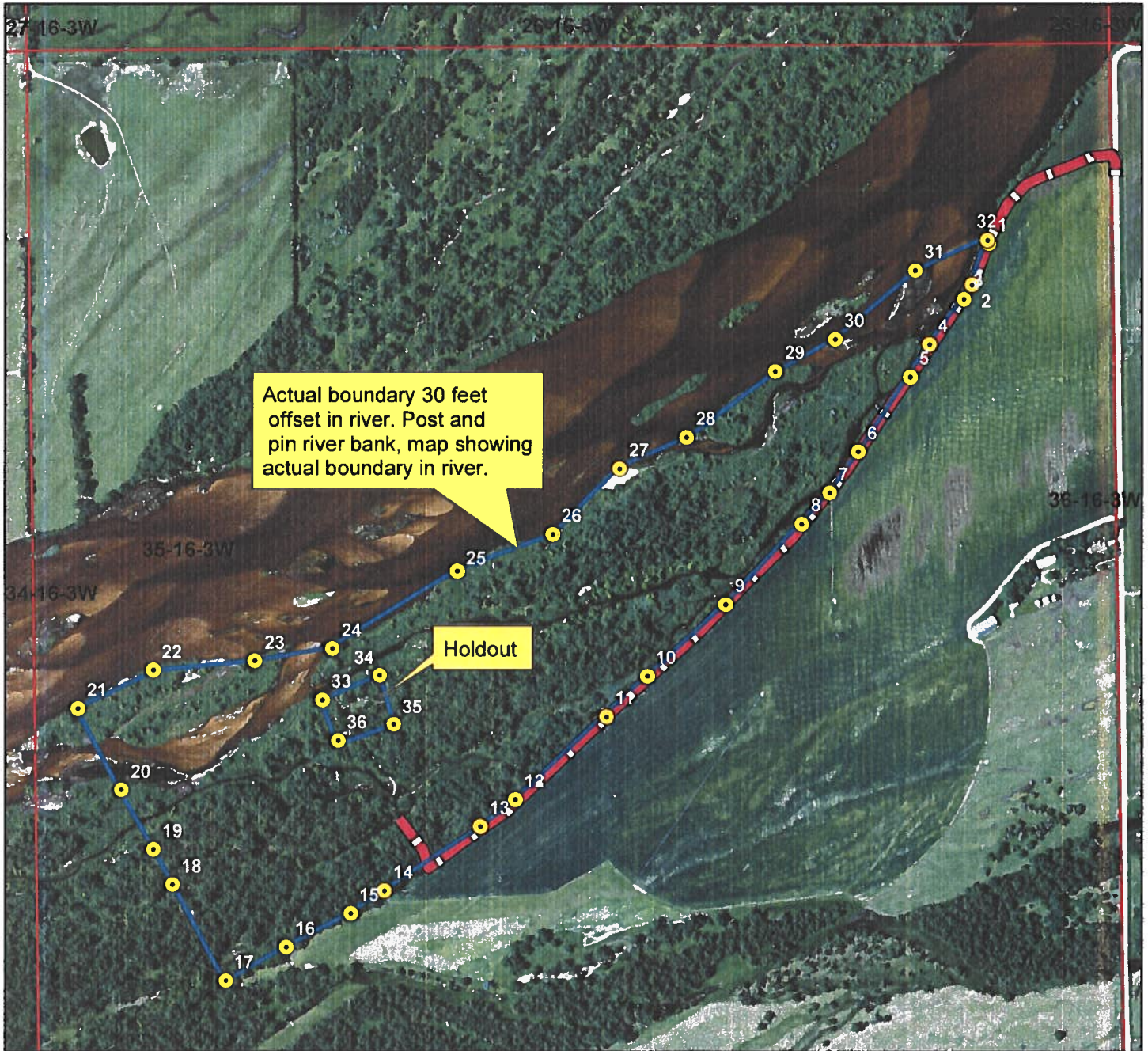
Legal Description: PT 35-16-3W

Field Office: WRP Team #5





Agency: NRCS

Assisted By: JEREMY JIRAK

State and County: NE, MERRICK



Legend

-  Flag Points
-  WRP Boundary: 110 Acres
-  Easement Access
-  plss_a_ne

Locations of flags are marking the representative boundary of the WRP. The surveyors are to follow the contract specifications and survey the boundary between two different landowners as spelled out in the contract. Where the property is to be separated from the current ownership, the flags will direct the layout of the survey along with instructions from the WRP Team Leader in charge of overseeing the survey. At no time will anything be posted that is not located on the WRP landowner's

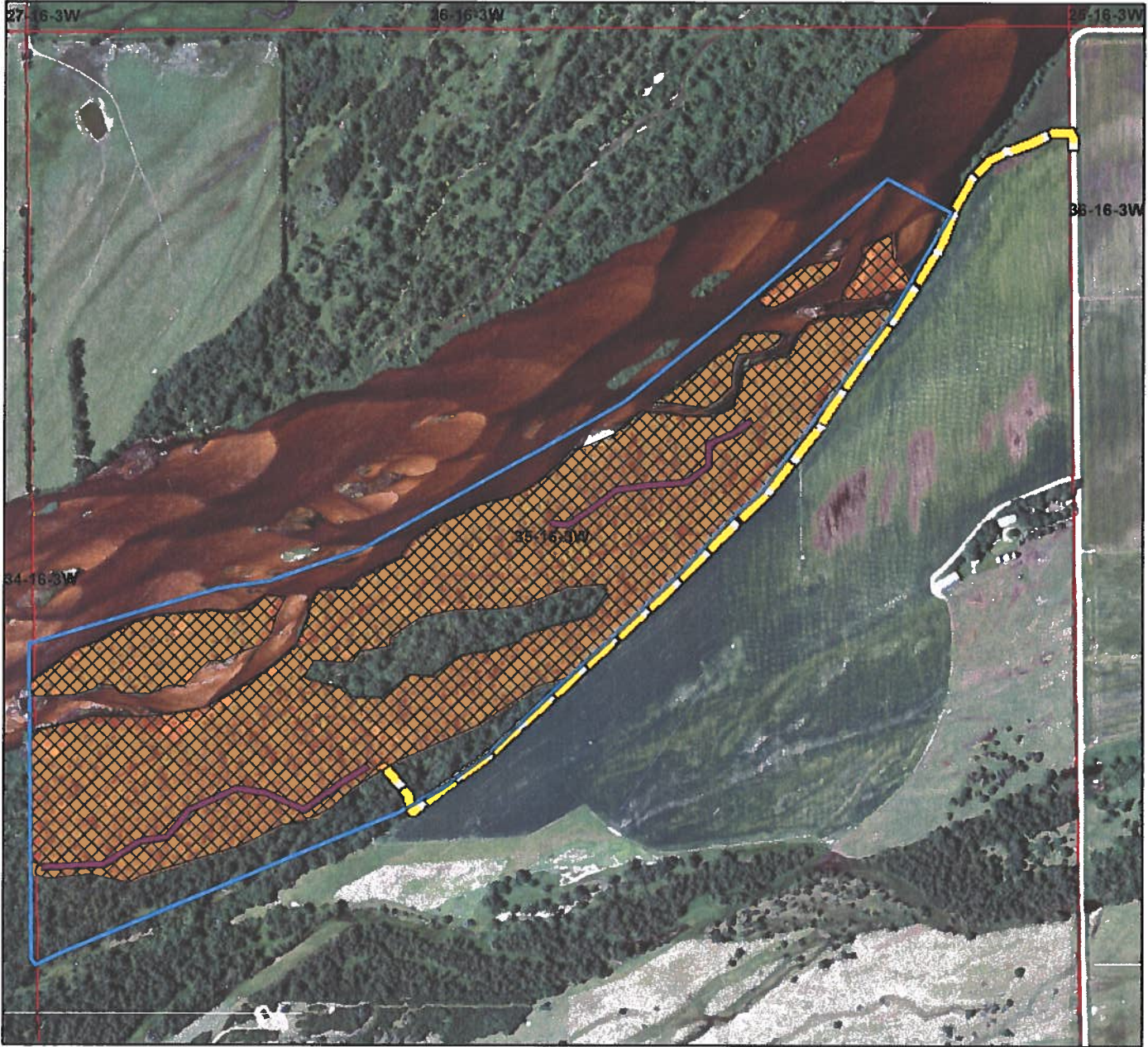


WRP PRELIMINARY RESORATION







Date: 4/4/2013

Customer(s): RANDALL K CHINN LIVING TRUST
Land Units: T3382
Approximate Acres: 136
Legal Description: PT 35-16-3W

Field Office: WRP Team #5
Agency: NRCS
Assisted By: JEREMY JIRAK
State and County: NE, MERRICK



Legend

-  WRP Boundary
-  Wetland Restoration 657: 3300 feet of channel excavation.
-  Tree Removal 657: 91.5 Acres
-  Seeding: 91.5 Acres
-  Easement Access
-  plss_a_ne





Date: 4/4/2013

WRP OFFER MAP

Customer(s): RANDALL K CHINN LIVING TRUST

Land Units: T3382

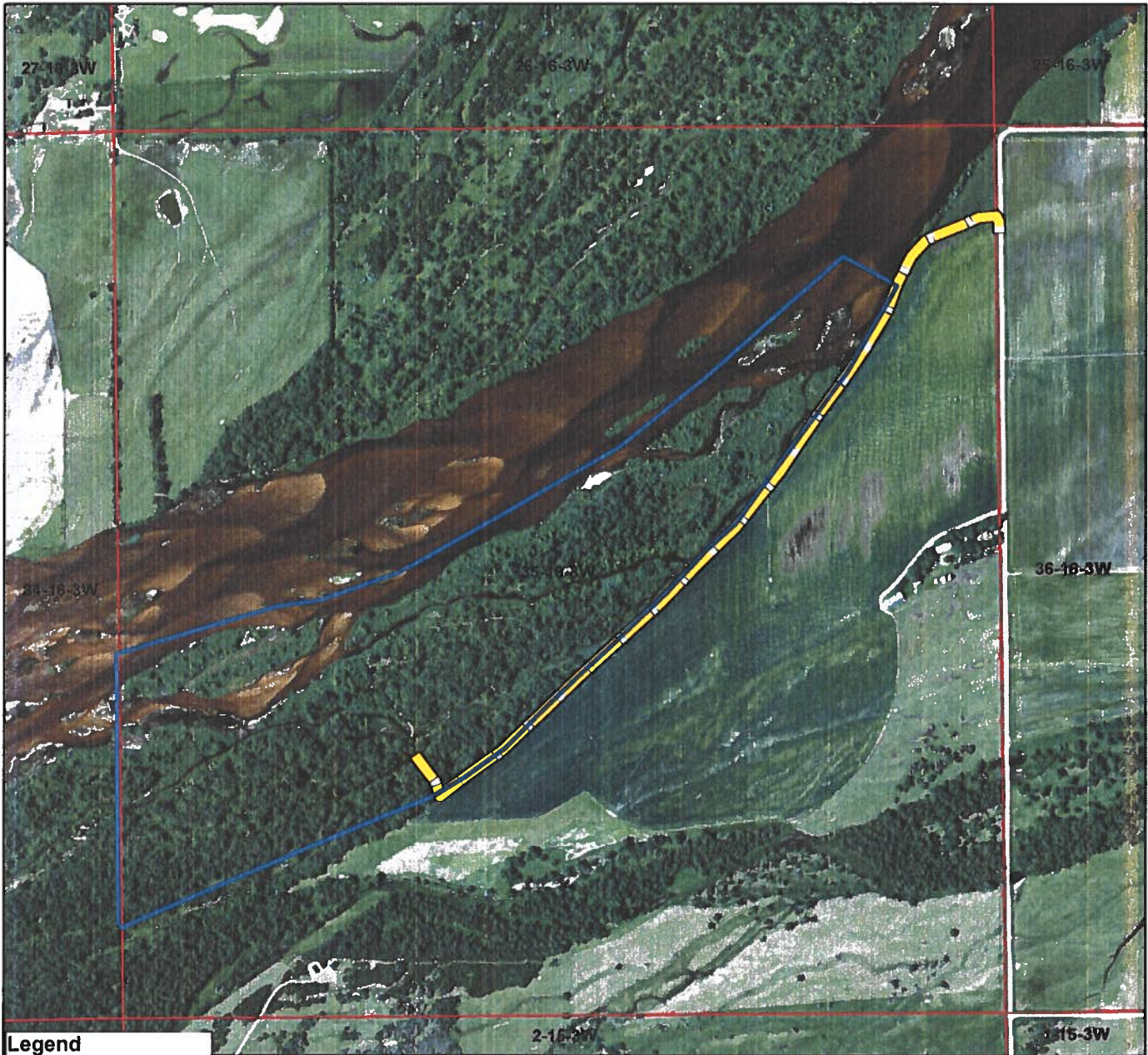
Approximate Acres: 136

Legal Description: PT 35-16-3W




Field Office: WRP Team #5

Agency: NRCS

Assisted By: JEREMY JIRAK
State and County: NE, MERRICK



Legend

-  WRP Boundary
-  Easement Access
-  plss_a_ne





Date: 4/4/2013

WRP SOILS MAP

Customer(s): RANDALL K CHINN LIVING TRUST

Land Units: T3382

Approximate Acres: 136

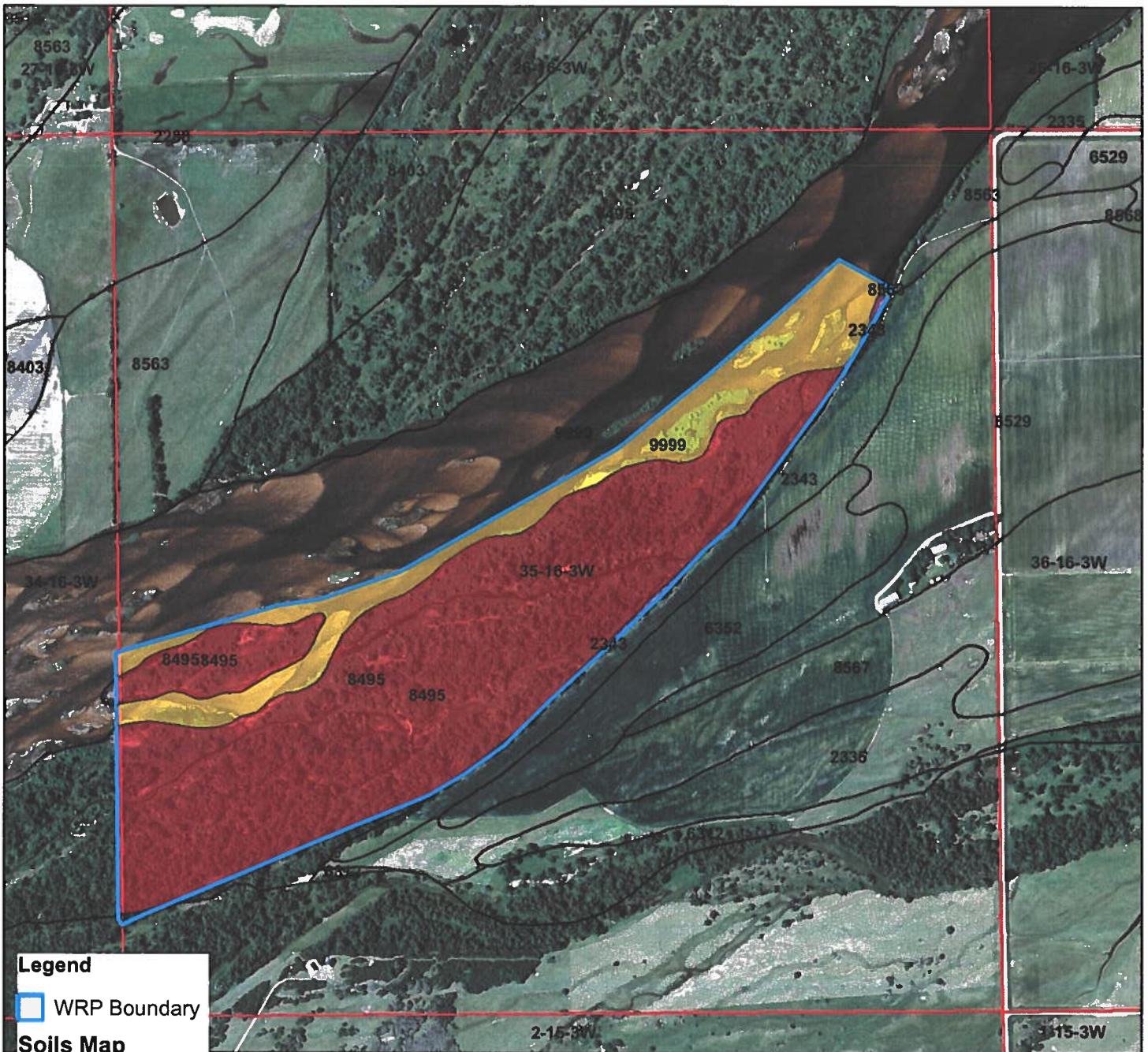
Legal Description: PT 35-16-3W

Field Office: WRP Team #5

Agency: NRCS

Assisted By: JEREMY JIRAK

State and County: NE, MERRICK



Legend

WRP Boundary

Soils Map

musym

2343

8495 Hydric

8563

9999

soilmu_a_ne121

plss_a_ne



N



Map Unit Description

Merrick County, Nebraska

2343 Inavale loamy sand, 3 to 11 percent slopes

Setting

Landscape: Valleys
Elevation: 1500 to 3000 feet
Mean annual precipitation: 26 to 28 inches
Mean annual air temperature: 50 to 54 degrees F
Frost-free period: 150 to 170 days

Composition

Inavale and similar soils: 100 percent

Description of Inavale

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy alluvium

Properties and Qualities

Slope: 3 to 9 percent
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High or very high (5.95 to 19.98 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 0 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 4.9 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 6e
Ecological site: Sands (R071XY055NE)
Other vegetative classification: Sands - Veg. zone 3 (071XY055NE_2)

Typical Profile

0 to 3 inches: loamy sand
3 to 7 inches: loamy fine sand
7 to 60 inches: loamy sand

Map Unit Description

Merrick County, Nebraska

8495 Gothenburg soils, frequently flooded

Setting

Landscape: Valleys
Elevation: 1500 to 4000 feet
Mean annual precipitation: 26 to 28 inches
Mean annual air temperature: 50 to 54 degrees F
Frost-free period: 150 to 170 days

Composition

Gothenburg, frequently flooded, and similar soils: 100 percent

Description of Gothenburg, frequently flooded

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy and gravelly alluvium

Properties and Qualities

Slope: 0 to 3 percent
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): High or very high (5.95 to 19.98 in/hr)
Depth to water table: About 0 to 18 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Available water capacity: Very low (about 2.0 inches)

Interpretive Groups

Land capability (non irrigated): 7s

Typical Profile

0 to 3 inches: loamy sand
3 to 60 inches: sr to coarse sand to gravelly coarse sand

Map Unit Description

Merrick County, Nebraska

8563 Platte loam, occasionally flooded

Setting

Landscape: Valleys
Elevation: 1500 to 5000 feet
Mean annual precipitation: 26 to 28 inches
Mean annual air temperature: 50 to 54 degrees F
Frost-free period: 150 to 170 days

Composition

Platte and similar soils: 95 percent
Minor components: 5 percent

Description of Platte

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy alluvium over sandy and gravelly alluvium

Properties and Qualities

Slope: 0 to 2 percent
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 to 2.00 in/hr)
Depth to water table: About 12 to 36 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate maximum: 10 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 4.2 inches)

Interpretive Groups

Land capability classification (irrigated): 4w
Land capability (non irrigated): 4w
Ecological site: Subirrigated (R071XY024NE)
Other vegetative classification: Subirrigated - Veg. zone 3 (071XY046NE_3)

Typical Profile

0 to 7 inches: loam
7 to 15 inches: sandy loam
15 to 60 inches: gravelly sand

Minor Components

Barney soils

Percent of map unit: 5 percent
Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Wet Land (R071XY044NE)

Map Unit Description

Merrick County, Nebraska

9999 Water

Setting

Elevation: 3500 to 5250 feet
Mean annual precipitation: 22 to 24 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 120 to 150 days

Composition

Water: 100 percent

Description of Water

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|--|---------------------------------------|
| County: Merrick | Expiration Date: 12/31/2027 |
| Landowner/Rep (Name & Address): Randall K. Chinn Living Trust (c/o Randy Chinn) 1403 8th St Columbus, NE 68601 | Contract No: 6665261301CHK |
| | Authorization No: |
| Purpose: To schedule for chemical and mechanical control of undesirable species. | |
| Land Description (Legal description and attached copy of map): Part of 35-16-3W, Merrick Co | |
| Beginning Condition of Site: (09/05/2019): Overall the condition of the site is good. There is good facultative wetland vegetation across the site such as barnyardgrass, witchgrass, prairie cordgrass, maretail, goldenrods, and smartweeds. Scattered throughout the site and within the sloughs there is reed canarygrass, phragmites, river bulrush and cattails. | |
| State of Effect & Compatibility: In the past in Nebraska wetlands, it was common for disturbance to occur on a regular basis from Bison grazing and wildfires naturally occurring. Over time, humans have decreased the amount of disturbance that occurs in wetlands. In the absence of sufficient disturbance, wetlands are ideal sites for undesirable species to take over. Wetlands offer ample amounts of water, nutrients, and light which provide an exceptional opportunity for noxious weeds and trees to grow. These undesirable species can present an issue for management in wetlands because if they're not addressed early enough, they can quickly become a problem that requires mechanical intervention, which is costly. Without managing this problem, it can lead to a decrease in native plants and the presence of wildlife. | |

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Special Conditions (Specifications and other details of permitted activities.):

Chemical and Mechanical Control of Undesirable Species (noxious weeds, trees, cattails, bulrush, invasive cool season grasses):

1. This CUA does not authorize the Landowner to treat weeds that are not noxious weeds (state defined) or not considered undesirable by NRCS. Noxious weeds are required by State law and the Warranty Easement Deed to be controlled by the landowner.
 - a. State listed noxious weeds are Canada thistle, musk thistle, plumeless thistle, Japanese and giant knotweed, leafy spurge, the non-native bio-type of phragmites, purple loosestrife, saltcedar, spotted and diffuse knapweed, and sericea lespedeza.
 - b. Species considered undesirable by NRCS because of their potential for becoming invasive and dominant are reed canarygrass, cattail, river bulrush, brome species, and trees other than sand plum.
 - c. The landowner is also responsible for checking with their county weed authority for county listed noxious weeds.
2. Many species deemed weedy in agricultural land, such as annual sunflowers, are beneficial to wildlife and are not authorized for chemical weed control in this CUA.
3. Spot spraying selective herbicides may be used to control noxious weeds and other plants that are undesirable to NRCS. Spot spraying is authorized whenever an undesirable plant species is present. Spot spraying may occur any year of this CUA as long as the target species is still present.
4. Broadcast spraying may be used when one or more undesirable plant species combined cover at least 25% of the spray area. Broadcast spraying may occur any year of this CUA as long as the target species still cover at least 25% of the spray area.
5. Mowing may be used as a pretreatment for herbicide application. See Haying/Mowing section below for more details. Mowing may not occur May 1st – July 15th without a trained professional conducting a nest survey according to USFWS protocol.
6. Herbicide selection shall be based on the targeted species with consideration of protecting native grasses, forbs, sedges, and other desirable plants species. Timing of herbicide application will be conducted to allow for the successful control of targeted species while limiting impact to non-target species.
7. Herbicides will be applied according to the label. The landowner is responsible for following all label requirements on herbicides, including whether the chemical may be sprayed over water, wetland, pasture, etc.
8. Stumps of deciduous trees must be treated with Remedy Ultra®, Garlon 3a®, Garlon 4 Ultra®, Vastlan®, Pathfinder II®, or glyphosate according to the product label within 15 minutes of being cut.
9. Mechanical woody species removal will not be conducted May 1st - July 15th unless a nesting survey has been conducted by a trained professional according to USFWS
10. These practices will start in 2020.

Haying or Mowing:

1. Haying/mowing will not occur May 1st – July 15th unless a nest survey has been conducted by a trained professional according to USFWS protocol.
2. Haying/mowing may not occur after September 1st to allow for adequate regrowth prior to a hard freeze.
3. A minimum stubble height of 3 inches must be left after haying/mowing.
4. All baled hay will be removed from easement area within 30 days from the time of baling.
5. This CUA does not authorize grazing. However, if a site has both haying and grazing CUAs approved for overlapping years, haying may not occur on the same acres as grazing in the same year.
6. Haying or mowing is not permitted on areas planted to trees and/or shrubs.
7. Timing of haying or mowing will be conducted to allow for the successful control of targeted species while limiting impact to non-target species.

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

Recommended (NRCS Signature): KRISTI SCHLEIF Digitally signed by KRISTI SCHLEIF
Date: 2020.01.16 14:24:58 -06'00' Date: 1/16/2020

Title: Resource Conservationist

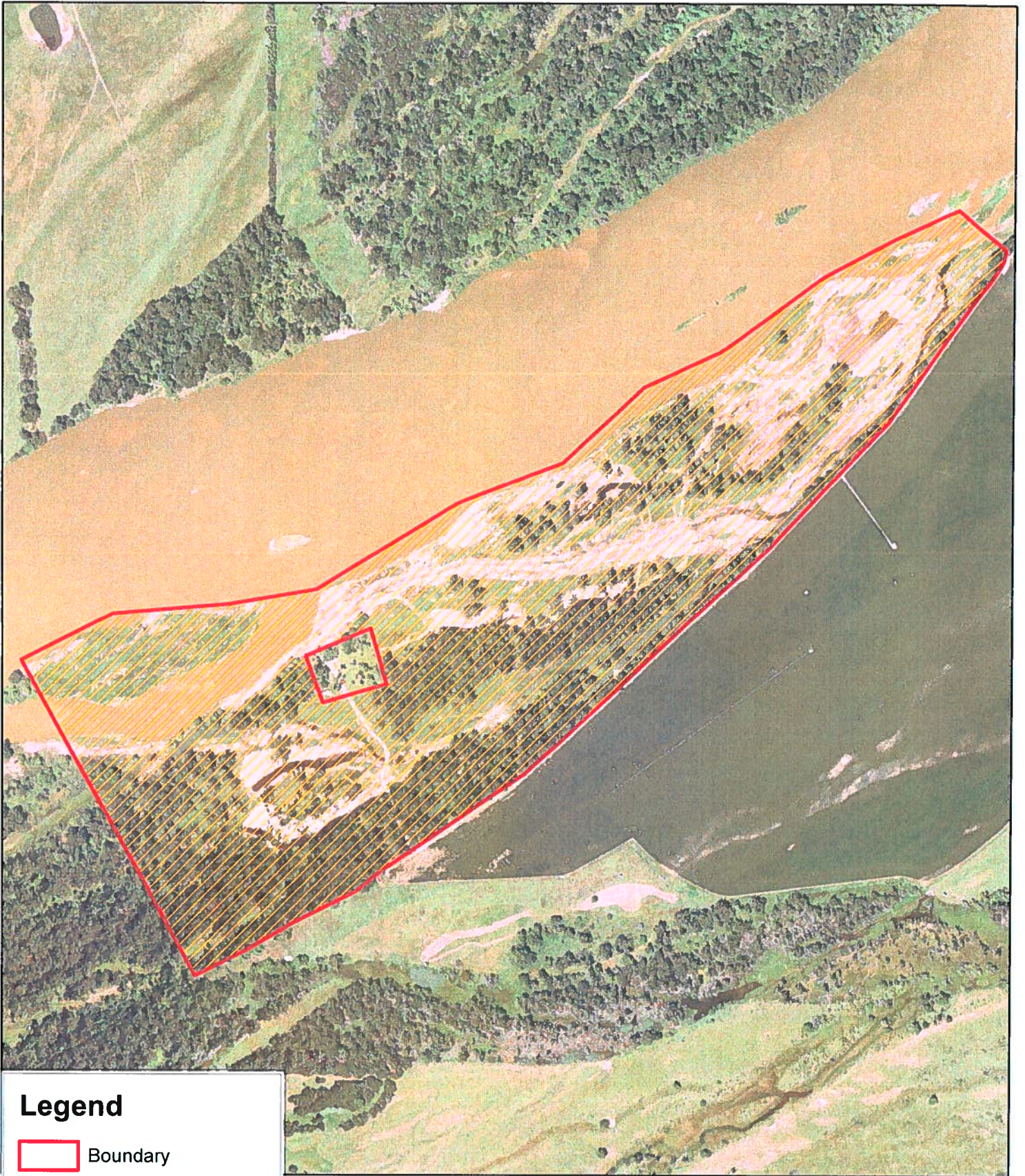
Landowner or Representative (Signature): *Danell K. Chin Stringer* Date: 12/29/2019

Approved (NRCS Signature): BRADLEY SONCKSEN Digitally signed by BRADLEY SONCKSEN
Date: 2020.02.21 16:27:16 -06'00' Date: _____



Title: ASTC/Programs

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

Undesirable Species Control CUA



Legend

-  Boundary
-  Undesirable Species Control Area



UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|---|--------------------------------------|
| County: Merrick | Expiration Date: 12-31-2027 |
| Landowner/Rep (Name & Address): Randall K. Chinn Living Trust (c/o Randy Chinn) 1403 8th St Columbus, NE 68601 | Contract No: 6665261301CHK |
| | Authorization No: |
| Purpose: To schedule for mowing of trails to access stand/blind readily and to maintain the property for management. To schedule installation of hunting stands or blinds for recreational use. | |
| Land Description (Legal description and attached copy of map): Part of 35-16-3W, Merrick Co | |
| Beginning Condition of Site (09/05/2019): Overall the condition of the site is good. There is good facultative wetland vegetation across the site such as barnyardgrass, witchgrass, prairie cordgrass, maretail, goldenrods, and smartweeds. Scattered throughout the site and within the sloughs there is reed canarygrass, phragmites, river bulrush and cattails. | |
| State of Effect & Compatibility: Mowing access roads and trails on the easement will allow the landowner to access their stand and blinds easily to use for recreation and quiet enjoyment. Also, the trails can be used to get around the property for management purposes. Using the same trails to reach hunting stand/blinds by upkeeping a path will lessen the disruption of wildlife and habitat. Bird nests could be destroyed if driving through tall grass in multiple places due to not having a mowed path to follow every time. It would also decrease the risk of wildfires due to driving through tall grasses when vehicles or ATV/UTV is running hot. Also, the access allows for the neighbor to reach their cows west of the property. Mowing for access will not adversely affect the site's habitat quality due to the overall size of the property. Placement of a hunting blind or stand on the easement will allow the landowner to use the property for recreation and quiet enjoyment. The placement of blind/stands will not adversely affect the site's habitat quality. | |

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Special Conditions (Specifications and other details of permitted activities. Attach copy of guidelines):

Mowing for Access roads and nature trails:

1. All trails should only be mowed a maximum of two times per year to keep trails from getting excessively tall. They will not be mowed on a regular basis to prevent the growth undesired cool season grasses over native warm season grasses.
2. Mowing will not occur May 1st - July 15th unless a nest survey has been conducted according to USFWS protocol.
3. This activity will begin in 2020.

Hunting Blind/stand:

4. Blind/stands will be no more than 80 ft² and 8-ft tall. It will have no foundation or poured concrete.
5. The blind/stands locations may fluctuate if needed. However, if placement is different than planned, pre-approval from NRCS is required.
6. No fill will be placed in wetland when installing the blind.
7. A below ground blind will remain covered when not in use.
8. Placing and removing blind/stands may require heavy equipment to remove. Removal of blind/stand from the enrolled area must be done with minimal ground or vegetative disturbance.
9. Blind upkeep and removal activities are the responsibility of the landowner, who will pay for all related activities. These activities should minimize vegetative disturbance. In the event of extreme disturbance, the landowner shall be responsible for restoring the area to NRCS standards and specifications.
10. Disturbance to wildlife from location, placement, installation, maintenance, and use, especially during critical periods such as night roosting and nesting season, must be kept to a minimum.
11. This activity will begin in 2020.

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

Recommended (NRCS Signature): KRISTI SCHLEIF Digitally signed by KRISTI SCHLEIF
Date: 2020.01.16 14:26:12 -06'00' Date: 1/16/2020

Title: Resource Conservationist

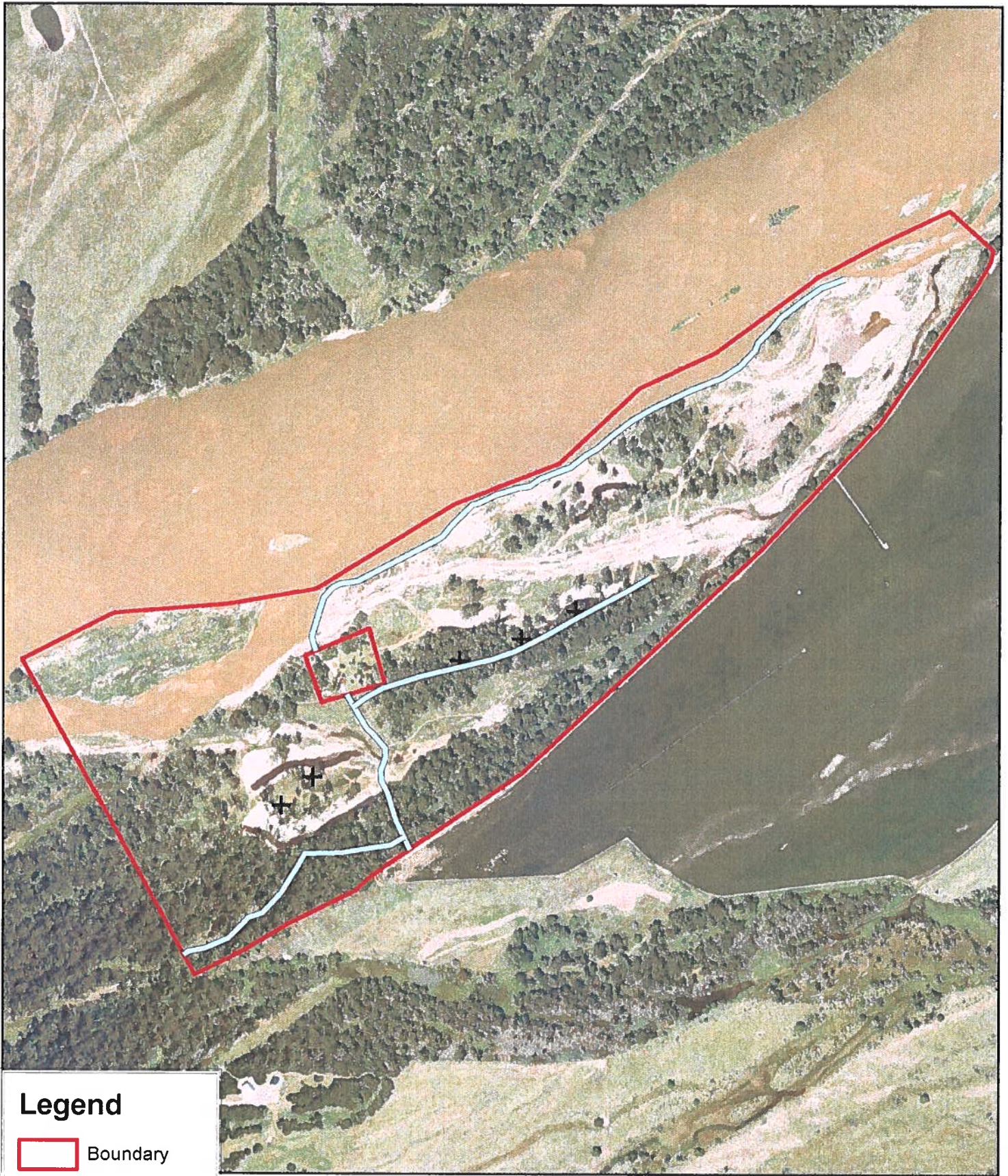
Landowner or Representative (Signature):  Date: 12/29/2019

Approved (NRCS Signature): BRADLEY SONCKSEN Digitally signed by BRADLEY
SONCKSEN Date: 2020.02.21 16:24:29 -06'00' Date: _____




Title: ASTC/Programs

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

Access Trails & Hunting Stand/Blind CUA



Legend

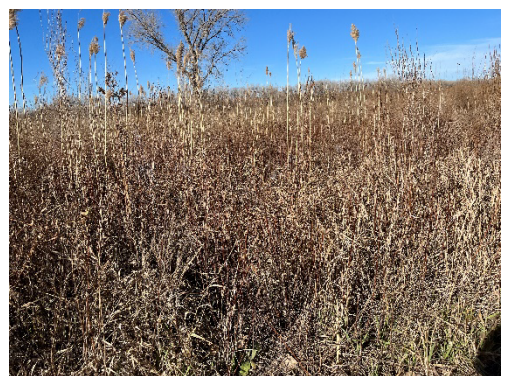
-  Boundary
-  Access Trails
-  Blind/Stand



Randy Chinn – Nov 13, 2023

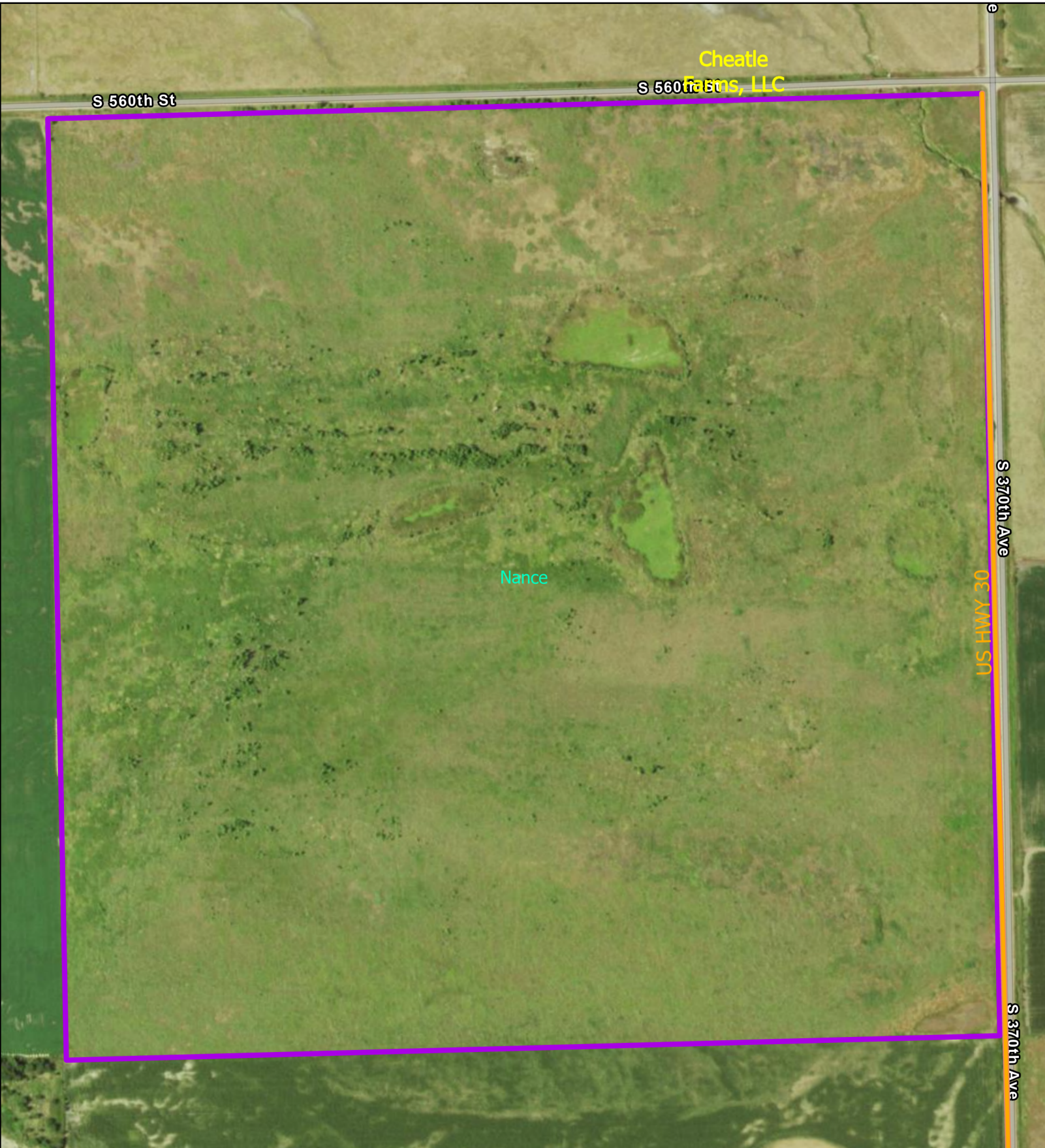








Cheatle Farms, LLC



 Site Boundary

 Wetland Area

 Road

0 0.05 0.1 Miles



NEBRASKA WETLANDS RESERVE PROGRAM

PRELIMINARY RESTORATION PLAN **

Landowner: Chad Borowick
Address: 54337 S 370th Ave
Gemron, NE 68642

County: Nance
Tract #: 1995
Legal: NE 1/4 Sec. 28-16-4
Site Ac: 155.5
Date: 29 March 2012

LANDOWNER OBJECTIVES:

TEAM OBJECTIVES:

| FIELD # | PRACTICE | QUANTITY | EST. COST |
|---------|--------------------------|----------|-----------|
| | Seed + Seeding #275/Acre | 155.5 Ac | \$ 58,313 |
| | Excavation #5,559.92/Ac | 20 Ac | 111,200 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TOTAL ESTIMATED RESTORATION COST \$ 169,513

NOTES:

SIGNATURE & DATE - LANDOWNER:

Chad A. Borowick

NRCS:

[Signature]

FWS/NG&P:

[Signature]

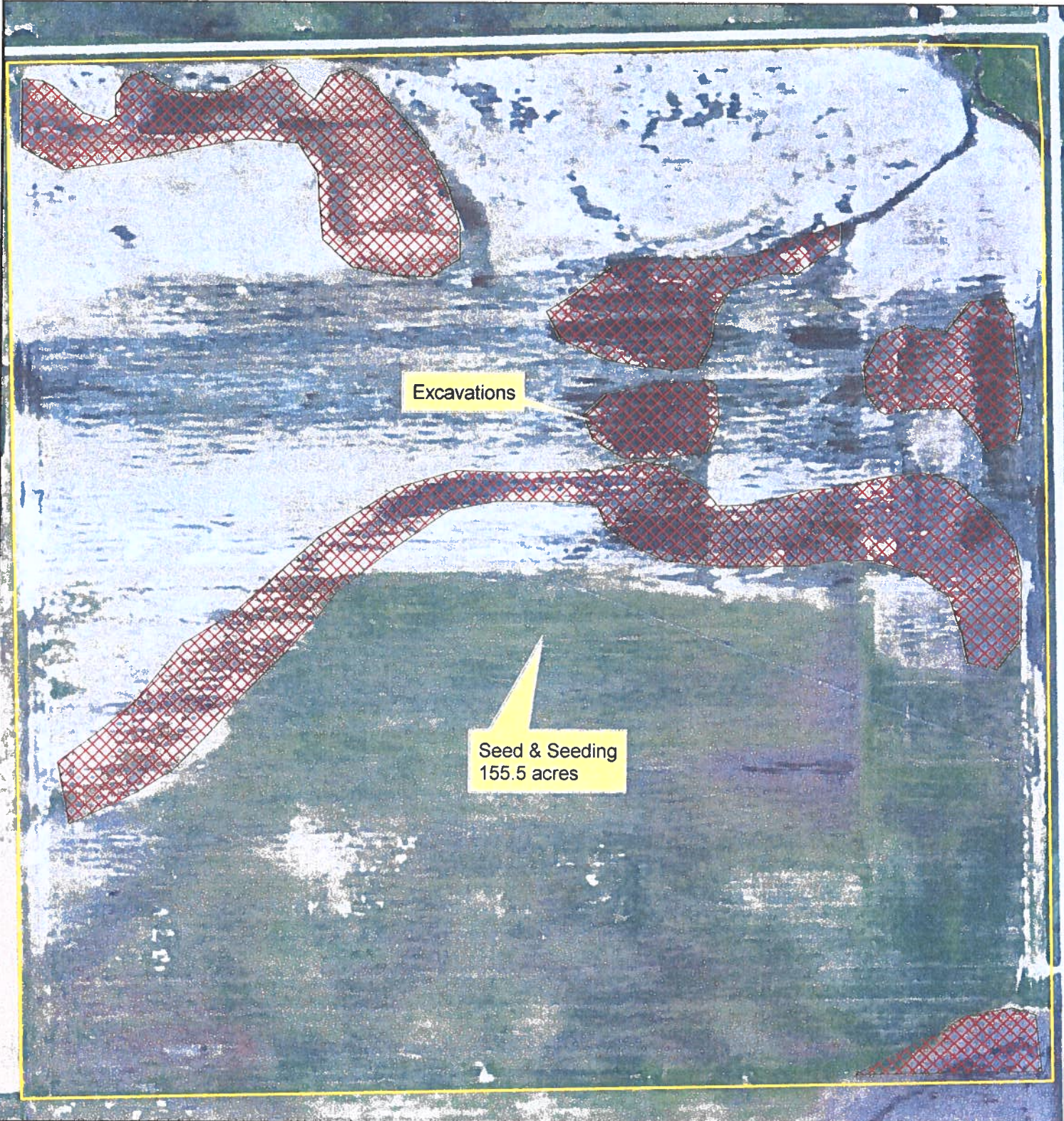
** Attach photo with easement boundaries and practice locations identified.

WRP Preliminary Restoration Plan Map

Date: 3/29/2013

Customer(s): CHAD A BOROWIAK
District: LOWER LOUP NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4
Nance County

Field Office: FULLERTON SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott



Legend

 T1995



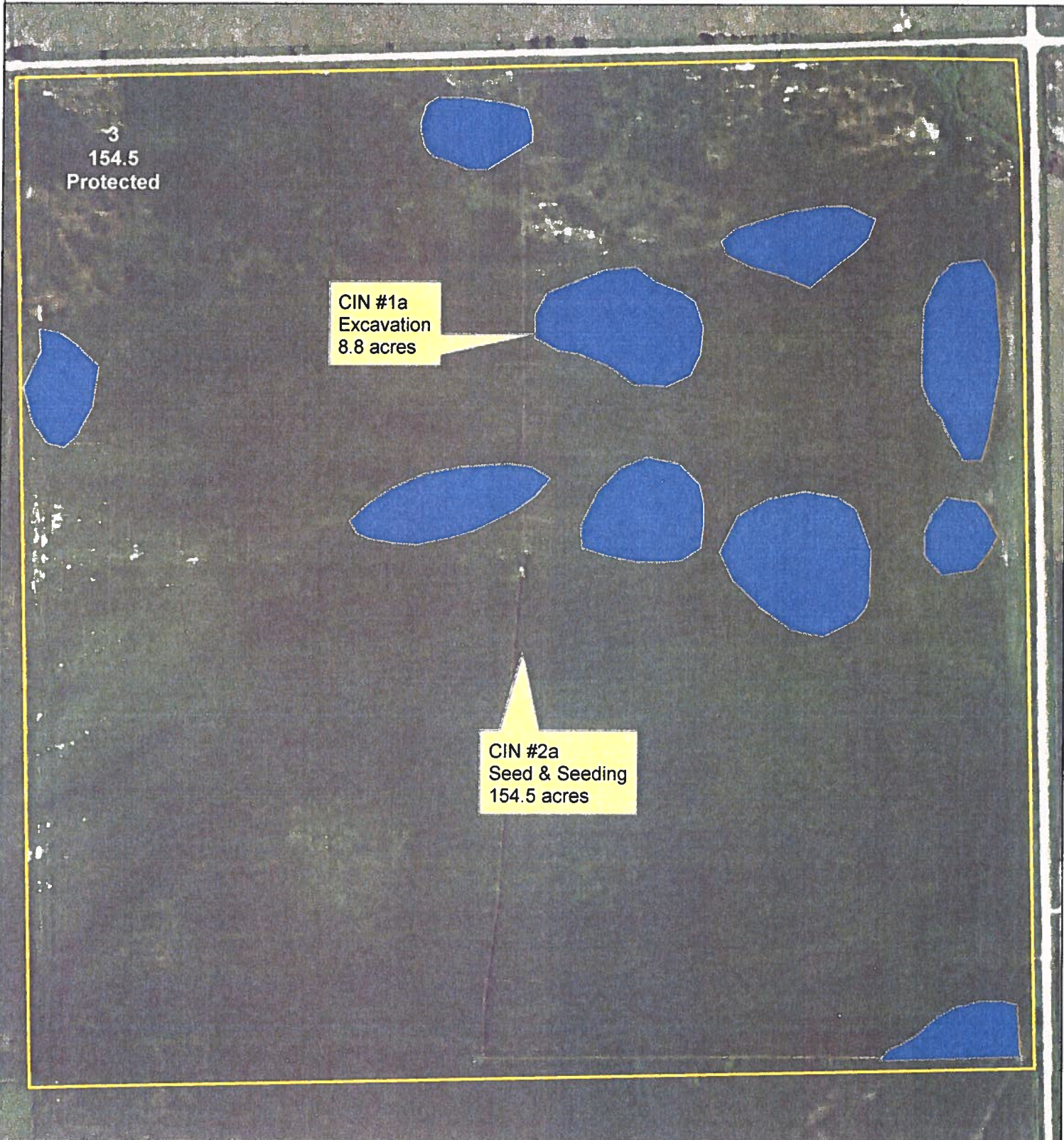
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WRP Restoration Map

Customer(s): CHAD A BOROWIAK
District: CENTRAL PLATTE NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4

Field Office: FULLERTON SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott
State and County: NE, Nance



Legend

1995



Josh (402) 957-0205

WRP Map


Date: 3/11/2019

Customer(s): CHEATLE FARMS, LLC
District: CENTRAL PLATTE NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4

Field Office: SAINT PAUL SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott
State and County: NE, Nance



Legend

 T1995

Prepared with assistance from USDA-Natural Resources Conservation Service



WRP Map

Date: 3/11/2019

Customer(s): CHEATLE FARMS, LLC
District: CENTRAL PLATTE NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4

Field Office: SAINT PAUL SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott
State and County: NE, Nance



Prepared with assistance from USDA-Natural Resources Conservation Service

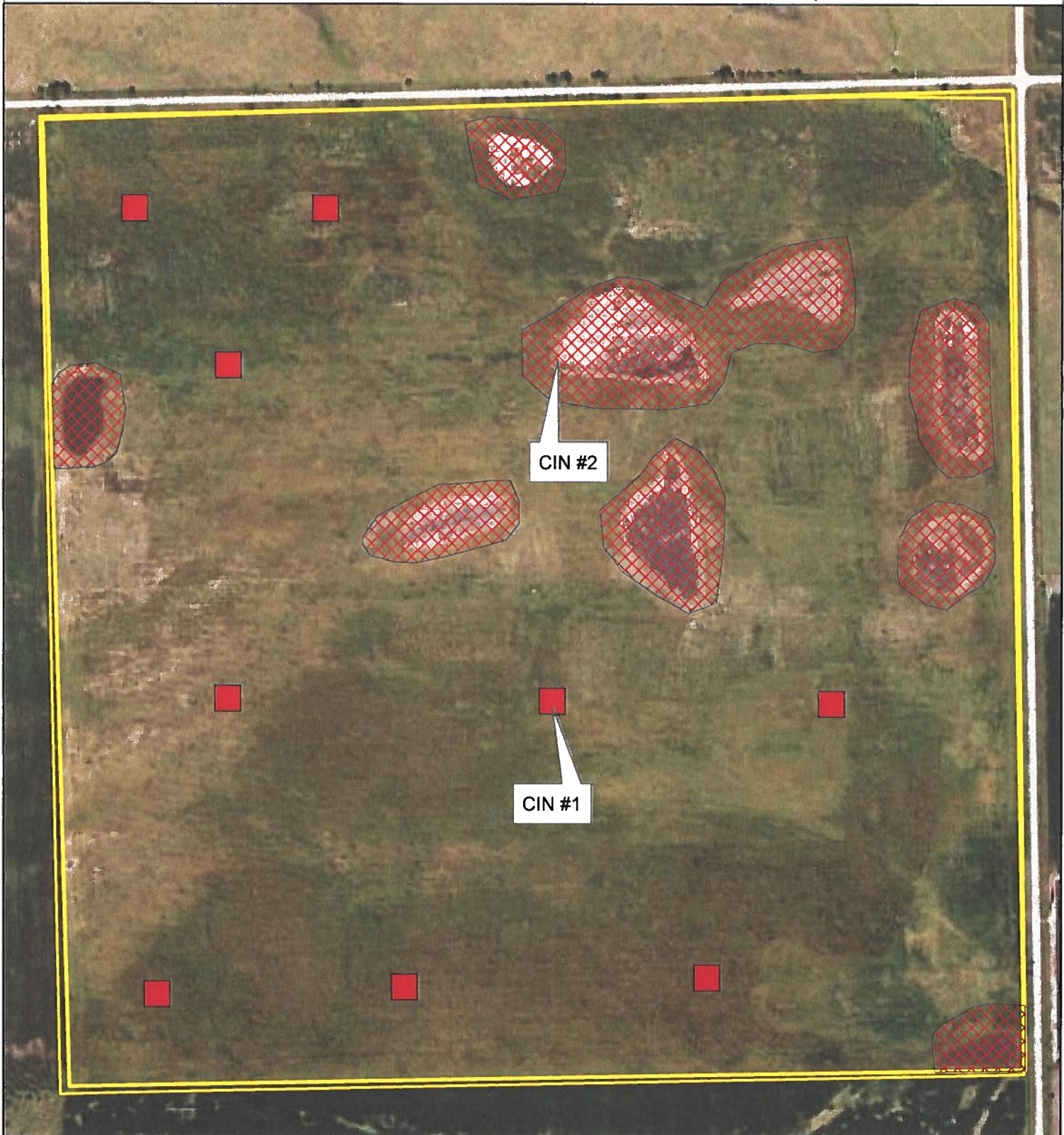


WRP Map

Date: 3/11/2019

Customer(s): CHEATLE FARMS, LLC
District: CENTRAL PLATTE NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4

Field Office: SAINT PAUL SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott
State and County: NE, Nance



Legend
□ T1995

Prepared with assistance from USDA-Natural Resources Conservation Service



WRP Map
66-6526-13-01CKD

Date: 10/8/2019

Customer(s): CHEATLE FARMS, LLC
District: CENTRAL PLATTE NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4

Field Office: SAINT PAUL SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott
State and County: NE, Nance



Legend
□ T1995

Prepared with assistance from USDA-Natural Resources Conservation Service

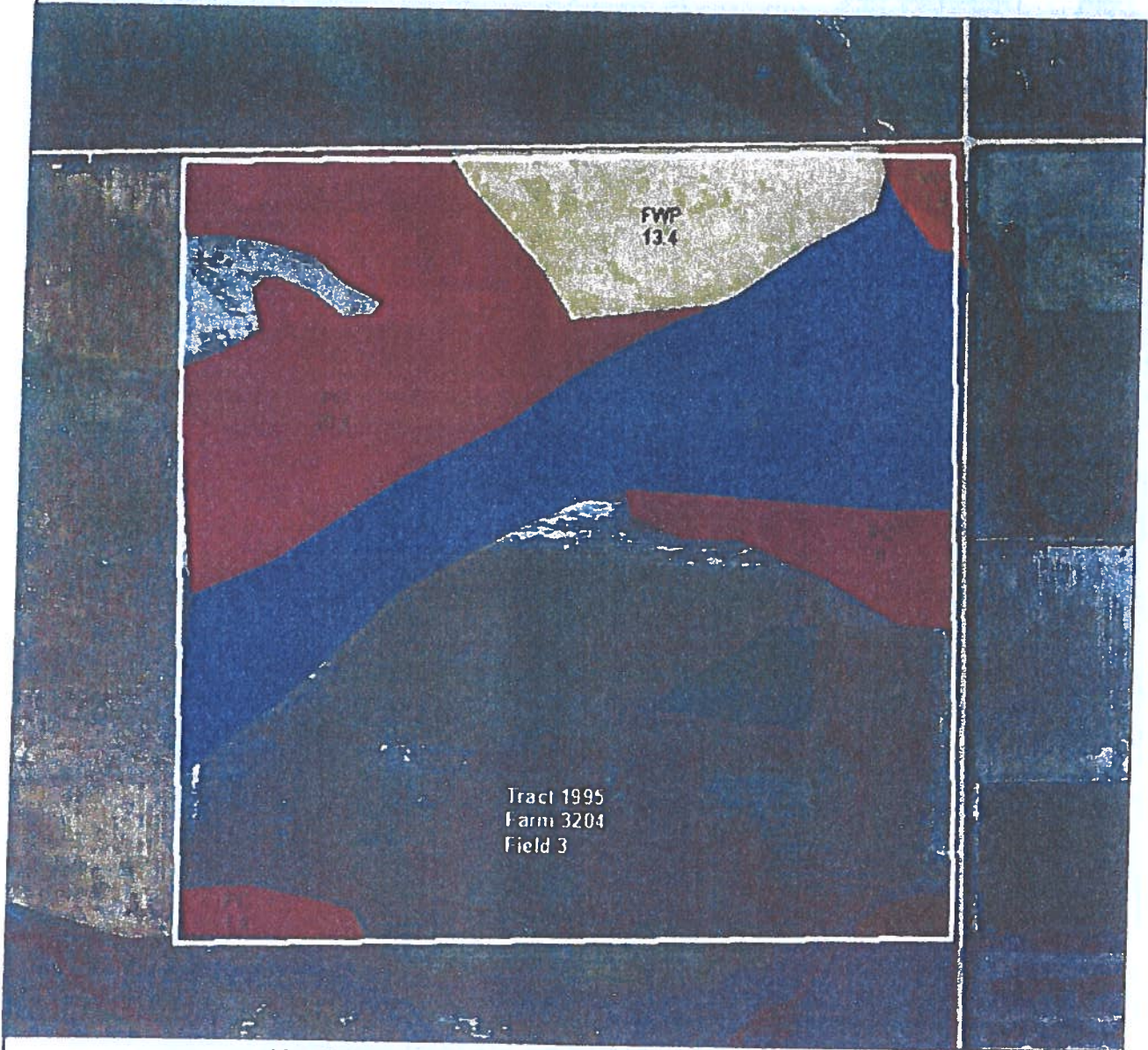


Borowiak Wetlands Map

Date: 4/26/2012

Agency: USDA/NRCS

Assisted By: Marie Ross



Map shows Wetland Labels and Acres for each wetland type polygon.

Legend
Resource Inventory (Polygon)

LABEL

- AW
- FW
- FWP
- PC
- W
- YX

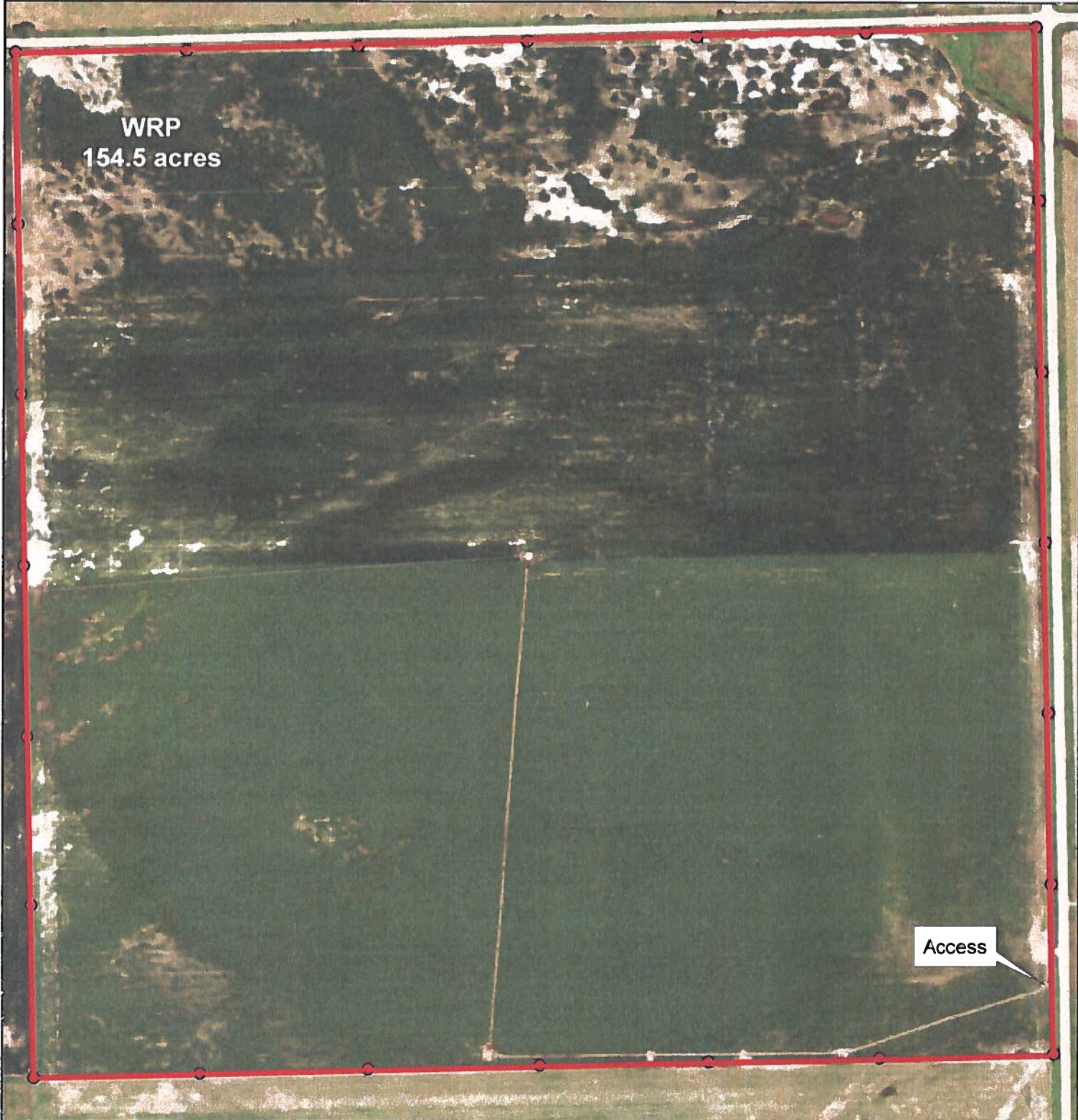


WRP Map

Date: 1/24/2014

Customer(s): CHAD A BOROWIAK
District: LOWER LOUP NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4
Nance County

Field Office: FULLERTON SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott



Legend

● Chad_Borowiak_WRP_boundary_signs_2014



N

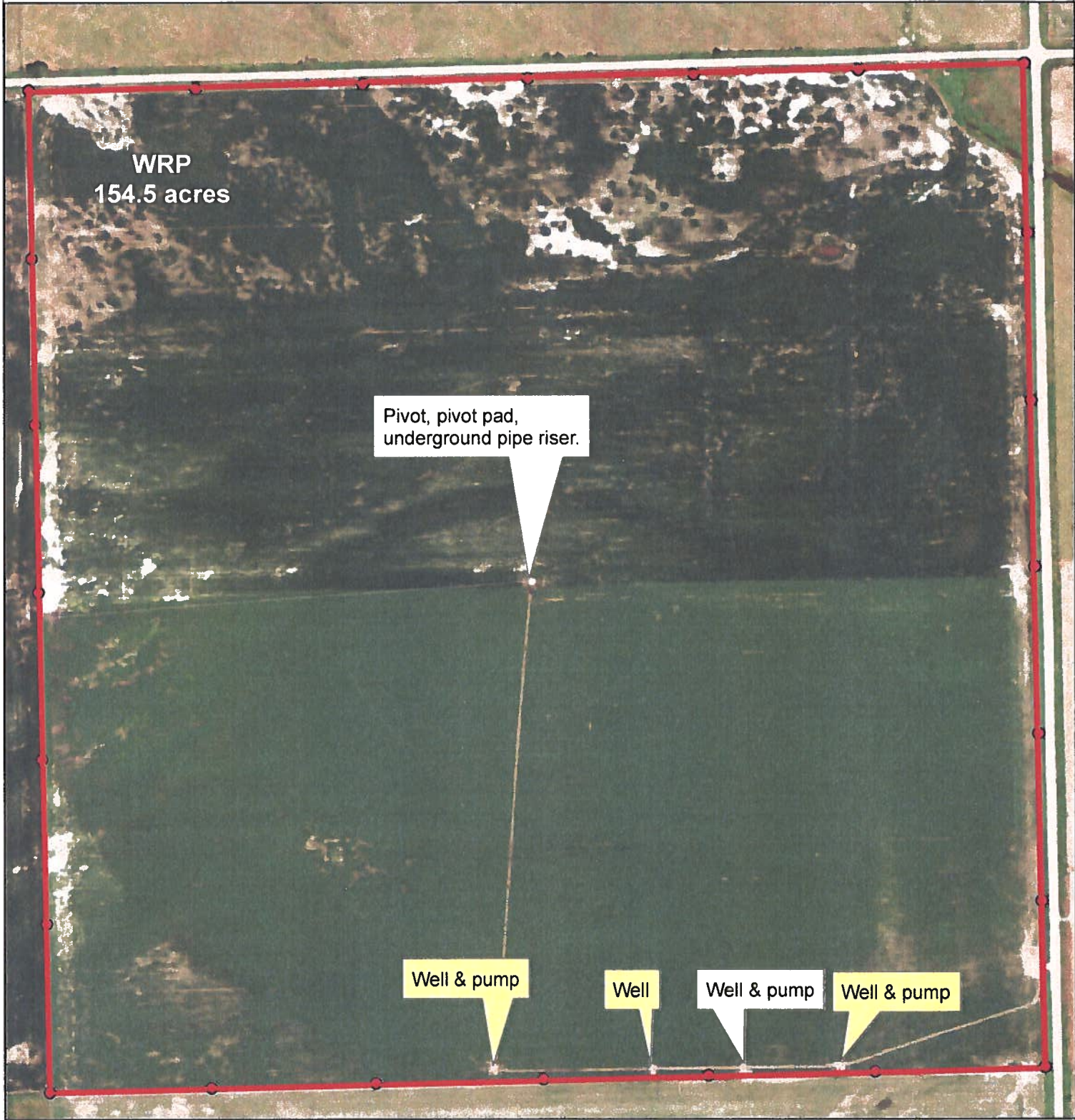


WRP Map

Date: 4/28/2014

Customer(s): CHAD A BOROWIAK
District: LOWER LOUP NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4
Nance County

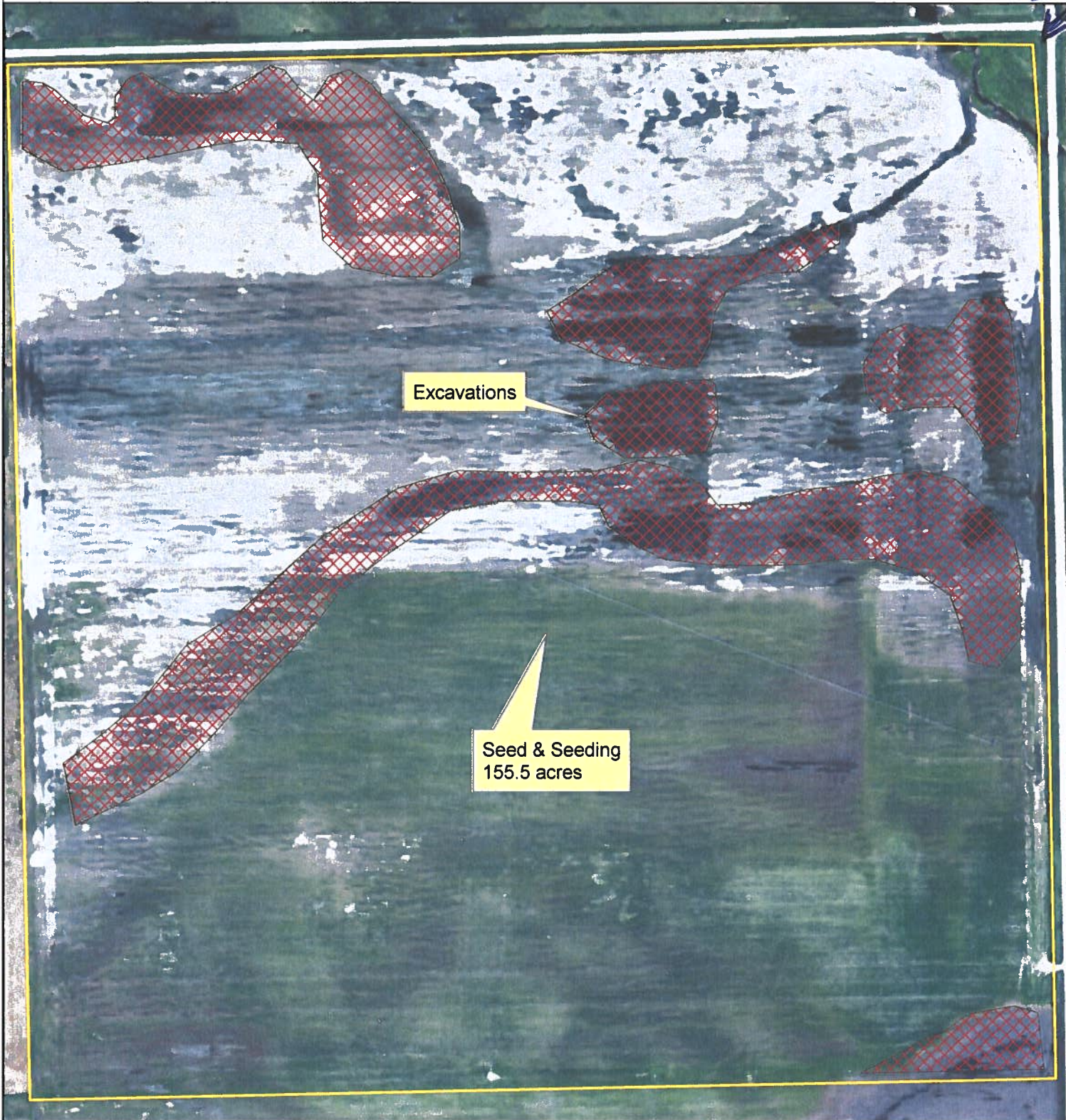
Field Office: FULLERTON SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott



Customer(s): CHAD A BOROWIAK
District: LOWER LOUP NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4
Nance County

Field Office: FULLERTON SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott

556
+
537



Legend

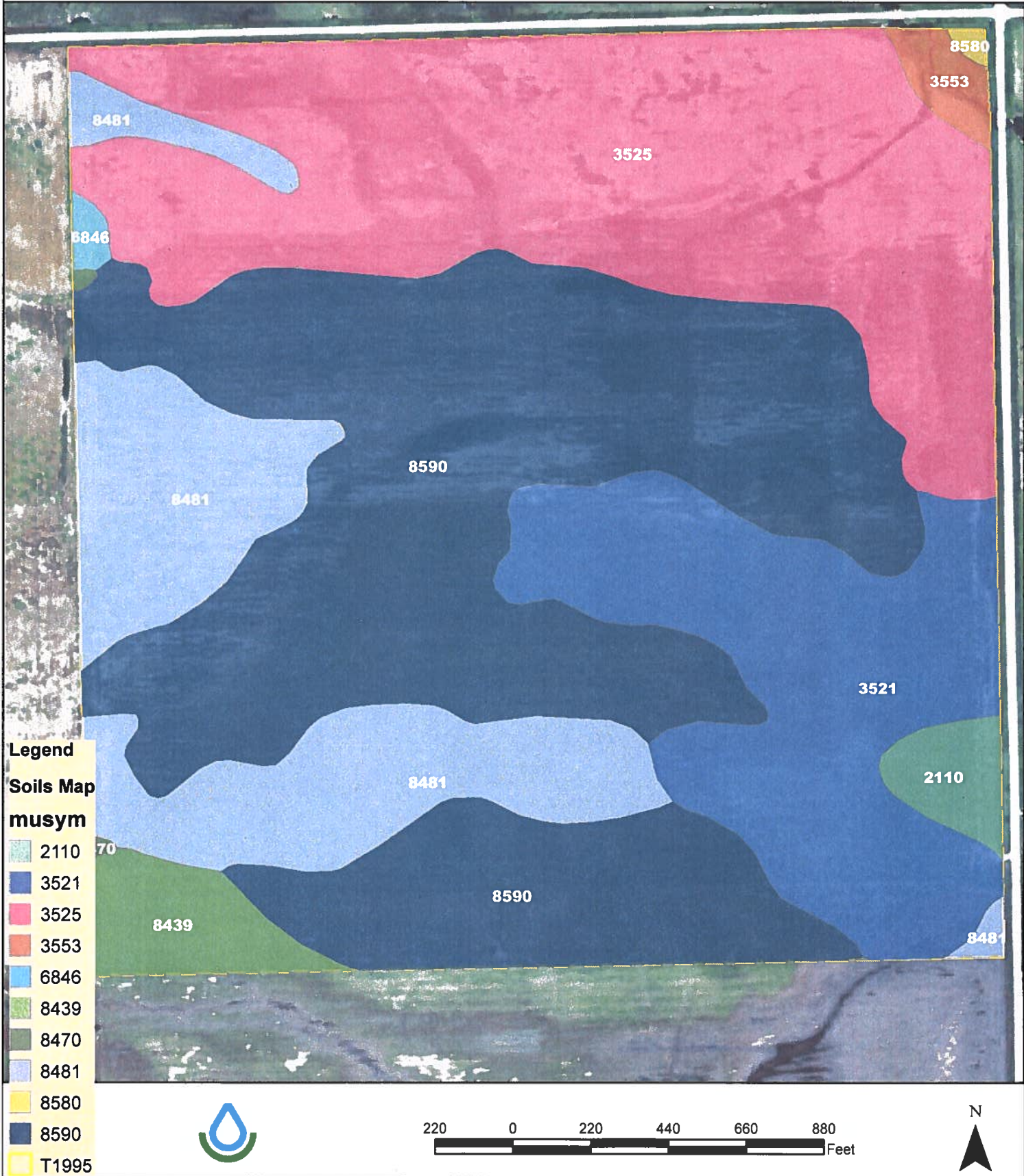
□ T1995



Soils Map

Customer(s): CHAD A BOROWIAK
District: LOWER LOUP NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4
Nance County

Field Office: FULLERTON SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott



Map Unit Description

Nance County, Nebraska

[Minor map unit components are excluded from this report]

Map unit: 2110 - Inavale loamy fine sand, occasionally flooded

Component: Inavale, occasionally flooded (99%)

The Inavale, occasionally flooded component makes up 99 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood plains on valleys. The parent material consists of sandy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is low. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R102CY051NE Sandy Lowland ecological site. Nonirrigated land capability classification is 4e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria.

Map unit: 3521 - Cass fine sandy loam, occasionally flooded

Component: Cass, occasionally flooded (99%)

The Cass, occasionally flooded component makes up 99 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood plains on valleys. The parent material consists of sandy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R102CY051NE Sandy Lowland ecological site. Nonirrigated land capability classification is 2w. Irrigated land capability classification is 2w. This soil does not meet hydric criteria.

Map unit: 3525 - Lamo silt loam, moderately saline, occasionally flooded

Component: Lamo, occasionally flooded (99%)

The Lamo, occasionally flooded component makes up 99 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood plains on valleys. The parent material consists of stratified, clayey clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is high. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 27 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 2 percent. This component is in the R102CY046NE Subirrigated ecological site. Nonirrigated land capability classification is 4s. Irrigated land capability classification is 3s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent. The soil has a slightly saline horizon within 30 inches of the soil surface. The soil has a slightly sodic horizon within 30 inches of the soil surface.

Map unit: 3553 - Hobbs silt loam, frequently flooded

Component: Hobbs, frequently flooded (99%)

The Hobbs, frequently flooded component makes up 99 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on valleys. The parent material consists of stratified silty alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R102CY048NE Loamy Overflow ecological site. Nonirrigated land capability classification is 6w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Map unit: 6846 - Ortello fine sandy loam, 3 to 6 percent slopes, eroded

Component: Ortello (100%)

The Ortello component makes up 100 percent of the map unit. Slopes are 3 to 7 percent. This component is on stream terraces on valleys. The parent material consists of sandy eolian deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches is

Map Unit Description

Nance County, Nebraska

Map unit: 8590 - Wann silt loam, occasionally flooded

Component: Wann, occasionally flooded (99%)

The Wann, occasionally flooded component makes up 99 percent of the map unit. Slopes are 0 to 1 percent. This component is on flood plains on valleys. The parent material consists of calcareous loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is moderate. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during March, April, May, June, July. Organic matter content in the surface horizon is about 2 percent. This component is in the R102CY046NE Subirrigated ecological site. Nonirrigated land capability classification is 2w. Irrigated land capability classification is 2w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. The soil has a slightly sodic horizon within 30 inches of the soil surface.

Soils Inventory Report

CHAD A BOROWIAK

| Tract | Land Unit | Map Unit Symbol | Map Unit Name | Acres | Percent |
|-------|-----------|-----------------|---|-------|---------|
| 1995 | 3 | 8470 | Gibbon silt loam, occasionally flooded | 0.2 | 0% |
| 1995 | 3 | 8580 | Wann fine sandy loam, occasionally flooded | 0.2 | 0% |
| 1995 | 3 | 6846 | Ortello fine sandy loam, 3 to 6 percent slopes, eroded | 0.4 | 0% |
| 1995 | 3 | 3553 | Hobbs silt loam, frequently flooded | 1.3 | 1% |
| 1995 | 3 | 2110 | Inavale loamy fine sand, occasionally flooded | 2.1 | 1% |
| 1995 | 3 | 8439 | Cass silt loam, occasionally flooded | 3.9 | 3% |
| 1995 | 3 | 8481 | Gibbon silt loam, moderately saline, occasionally flooded | 21.9 | 14% |
| 1995 | 3 | 3521 | Cass fine sandy loam, occasionally flooded | 23.5 | 15% |
| 1995 | 3 | 3525 | Lamo silt loam, moderately saline, occasionally flooded | 41.8 | 27% |
| 1995 | 3 | 8590 | Wann silt loam, occasionally flooded | 60.2 | 39% |

Total: 155.5 100%

Total: 155.5 100%

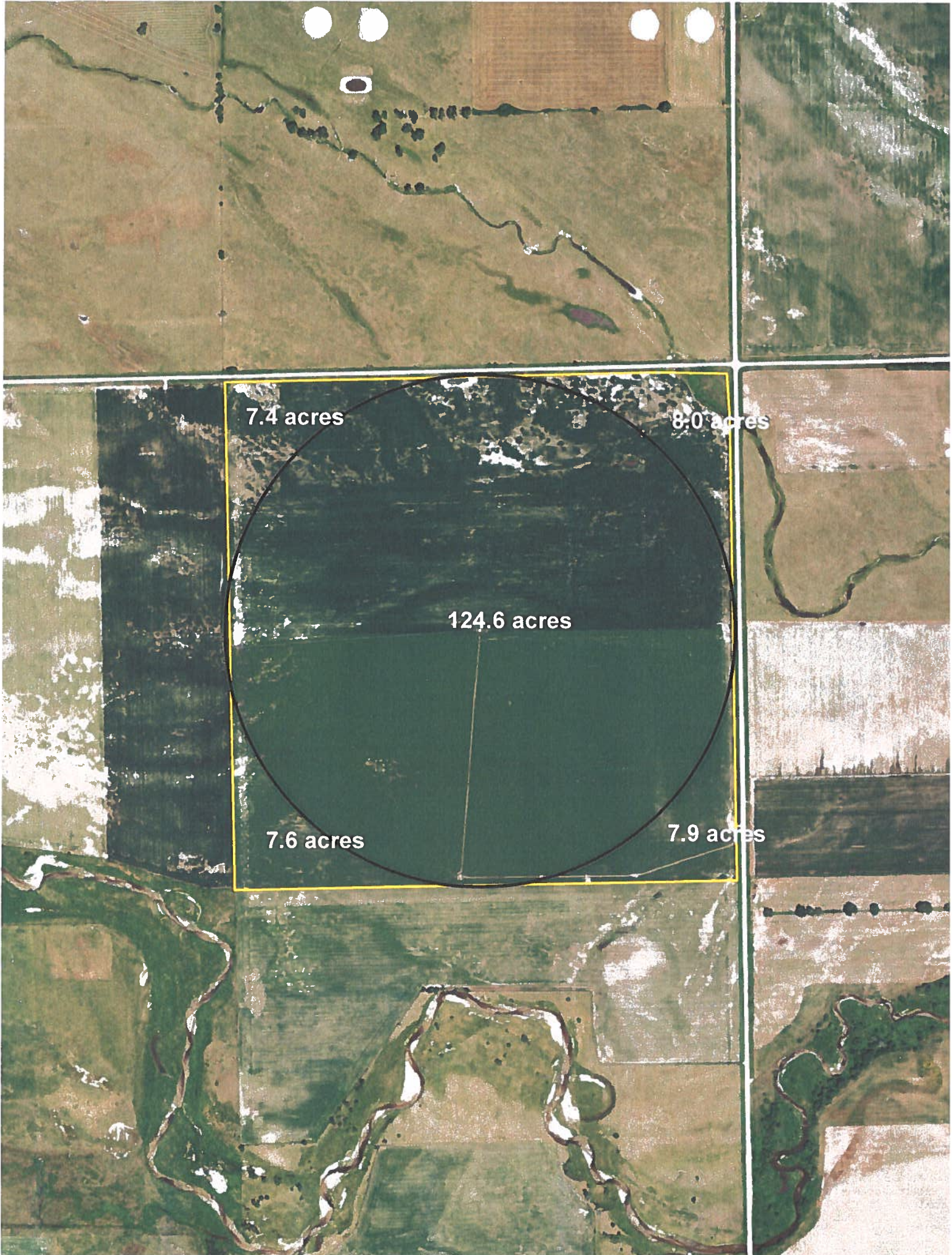
Hydric Soils

Nance County, Nebraska

| Map symbol and map unit name | Component | Percent of map unit | Landform | Hydric rating | Hydric criteria |
|--|----------------|---------------------|----------|---------------|-----------------|
| 2110: Inavale loamy fine sand, occasionally flooded | Wt at 0-1 foot | 1 | Swales | Yes | 2B3 |
| 3521: Cass fine sandy loam, occasionally flooded | Wt at 0-1 foot | 1 | Swales | Yes | 2B3 |
| 3525: Lamo silt loam, moderately saline, occasionally flooded | Wt at 0-1 foot | 1 | Swales | Yes | 2B3 |
| 3553: Hobbs silt loam, frequently flooded | Wt at 0-1 foot | 1 | Swales | Yes | 2B3 |
| 8439: Cass silt loam, occasionally flooded | Wt at 0-1 foot | 1 | Swales | Yes | 2B3 |
| 8470: Gibbon silt loam, occasionally flooded | Wt at 0-1 foot | 1 | Swales | Yes | 2B3 |
| 8580: Wann fine sandy loam, occasionally flooded | Wt at 0-1 foot | 1 | Swales | Yes | 2B3 |
| 8590: Wann silt loam, occasionally flooded | Wt at 0-1 foot | 1 | Swales | Yes | 2B3 |

Explanation of hydric criteria codes:

1. All Histels except for Folistels, and Histosols except for Folists.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
 - A. are somewhat poorly drained and have a water table at the surface (0.0 feet) during the growing season, or
 - B. are poorly drained or very poorly drained and have either:
 - 1.) a water table at the surface (0.0 feet) during the growing season if textures are coarse sand, sand, or fine sand in all layers within a depth of 20 inches, or
 - 2.) a water table at a depth of 0.5 foot or less during the growing season if permeability is equal to or greater than 6.0 in/hr in all layers within a depth of 20 inches, or
 - 3.) a water table at a depth of 1.0 foot or less during the growing season if permeability is less than 6.0 in/hr in any layer within a depth of 20 inches.
3. Soils that are frequently ponded for long or very long duration during the growing season.
4. Soils that are frequently flooded for long or very long duration during the growing season.



7.4 acres

8.0 acres

124.6 acres

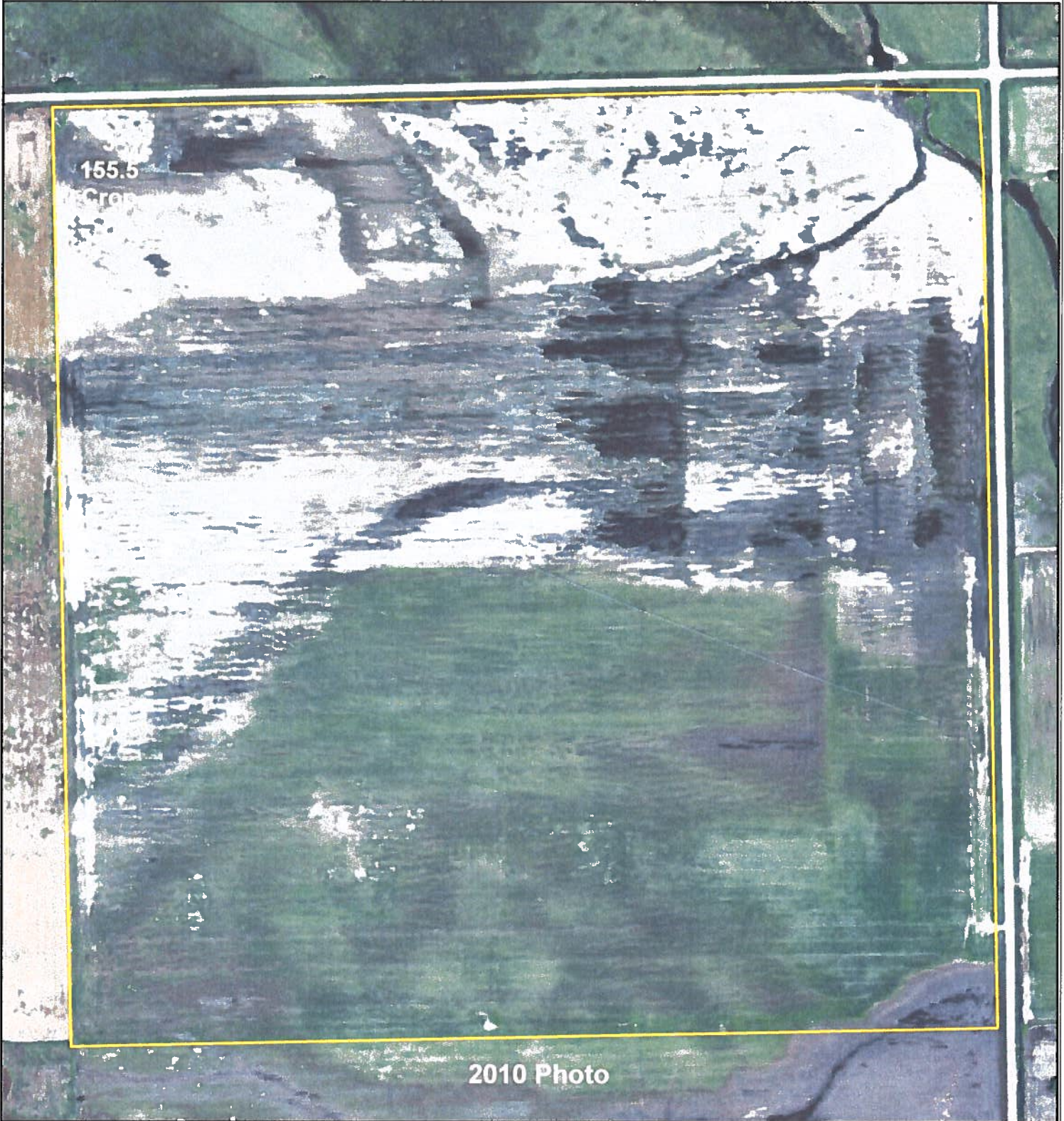
7.6 acres

7.9 acres


Conservation Plan Map

Customer(s): CHAD A BOROWIAK
District: LOWER LOUP NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4
Nance County

Field Office: FULLERTON SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott



Legend

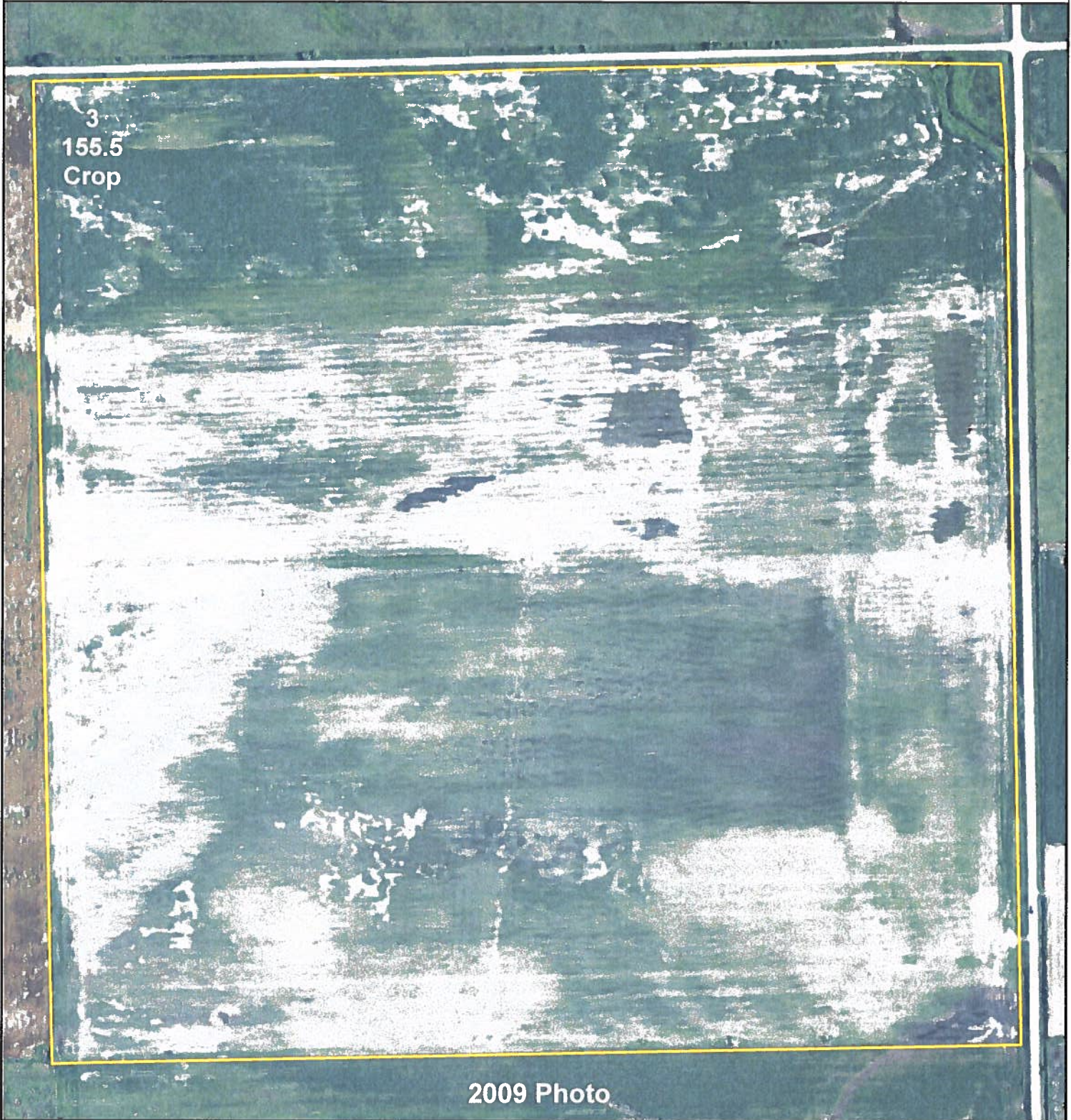
 T1995



Conservation Plan Map

Customer(s): CHAD A BOROWIAK
District: LOWER LOUP NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4
Nance County

Field Office: FULLERTON SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott



Legend

 T1995

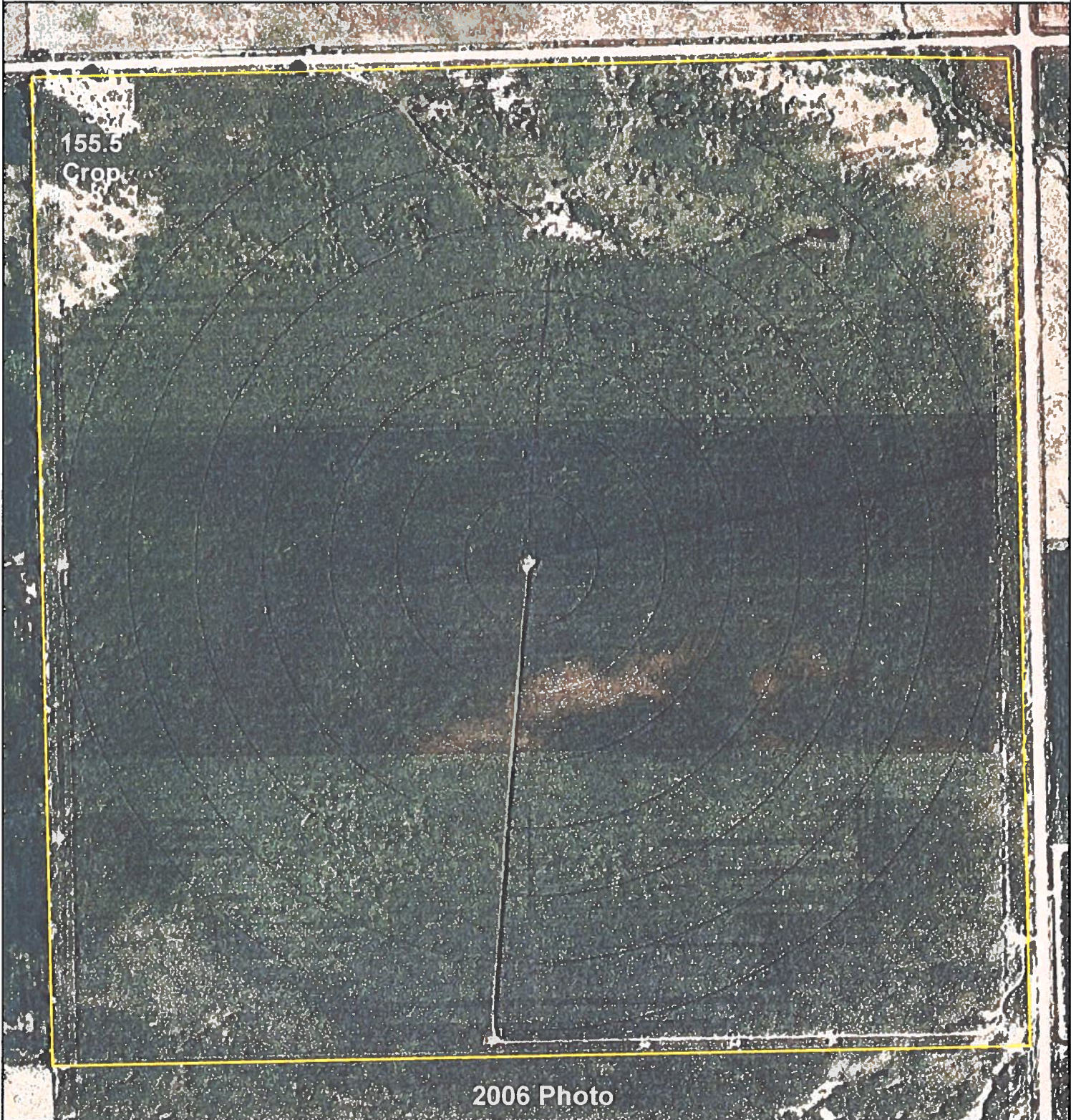
200 0 200 400 600 800
Feet



Conservation Plan Map

Customer(s): CHAD A BOROWIAK
District: LOWER LOUP NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4
Nance County

Field Office: FULLERTON SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott



Legend

 T1995



N



Conservation Plan Map

Customer(s): CHAD A BOROWIAK
District: LOWER LOUP NATURAL RESOURCES DISTRICT
Legal Description: NE 1/4 Sec. 28-16-4
Nance County

Field Office: FULLERTON SERVICE CENTER
Agency: NRCS
Assisted By: James D. Lott



Legend
□ T1995



File Copy

CHAD BOROWIAK

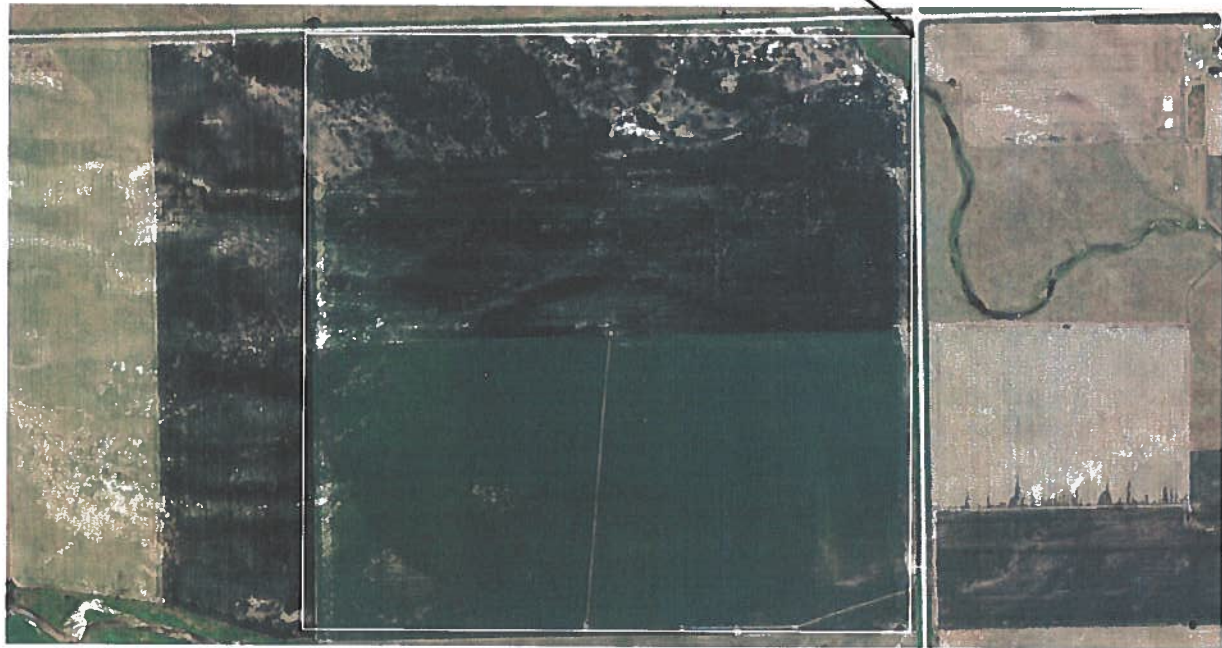
WETLAND RESERVE PROGRAM

NANCE COUNTY



SPONSORED BY:
DESIGNED BY: NATURAL RESOURCES CONSERVATION SERVICE
SAINT PAUL, NE.

NE CORNER OF SEC 28 R16 4W



SHEET INDEX

| SHEET NO. | SHEET TITLE |
|-----------|---------------------|
| 1 | COVER SHEET |
| 2 | SHALLOW EXCAVATIONS |
| 3 | TOPOGRAPHY |

JOE DUSH 02/05/2015

SPECIFICATION AND DRAWINGS
APPROVED FOR CONSTRUCTION

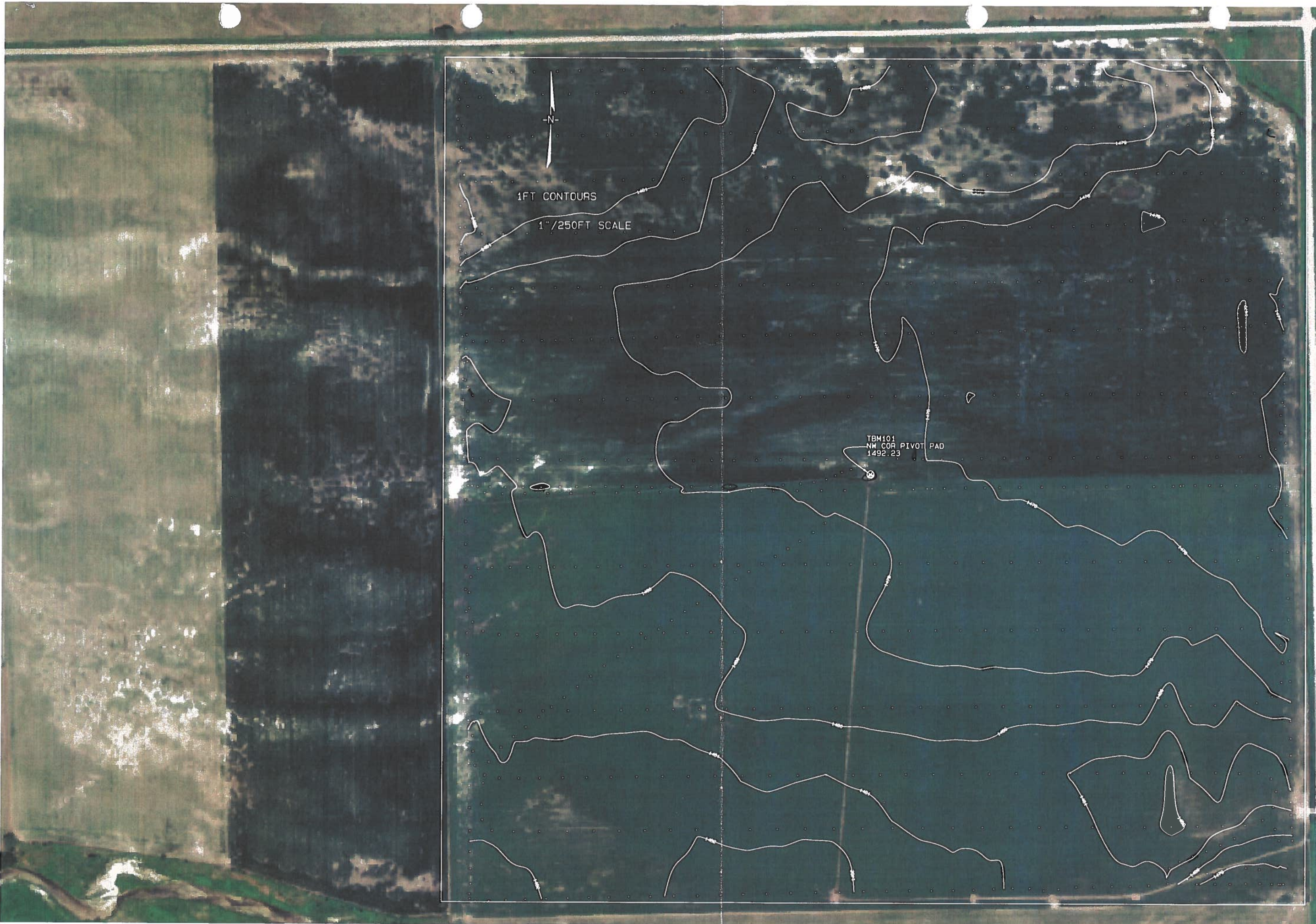
REVIEWED BY: _____ TITLE JAA Date

APPROVED BY: _____ TITLE JAA Date

THIS PROJECT IS JOB CLASS _____
NRCS INVENTORY SIZED STRUCTURE

DESIGNER'S LEVEL OF JOB APPROVAL AUTHORITY: _____
(JAA)

| | |
|--------------|---|
| SHEET NO. | 1 |
| TOTAL SHEETS | 3 |



1FT CONTOURS

1" / 250FT SCALE

TBM101
NW COR PIVOT PAD
1492.23

| | | |
|----------|----------|------------|
| Designed | JOE DUSH | FEB 5 2015 |
| Drawn | JOE DUSH | FEB 5 2015 |
| Checked | | |
| Approved | | |

TOPOGRAPHY

CHAD BOROWIAK

NANCE COUNTY, NEBRASKA

SPACE RESERVED
FOR ENGINEER'S
STAMP

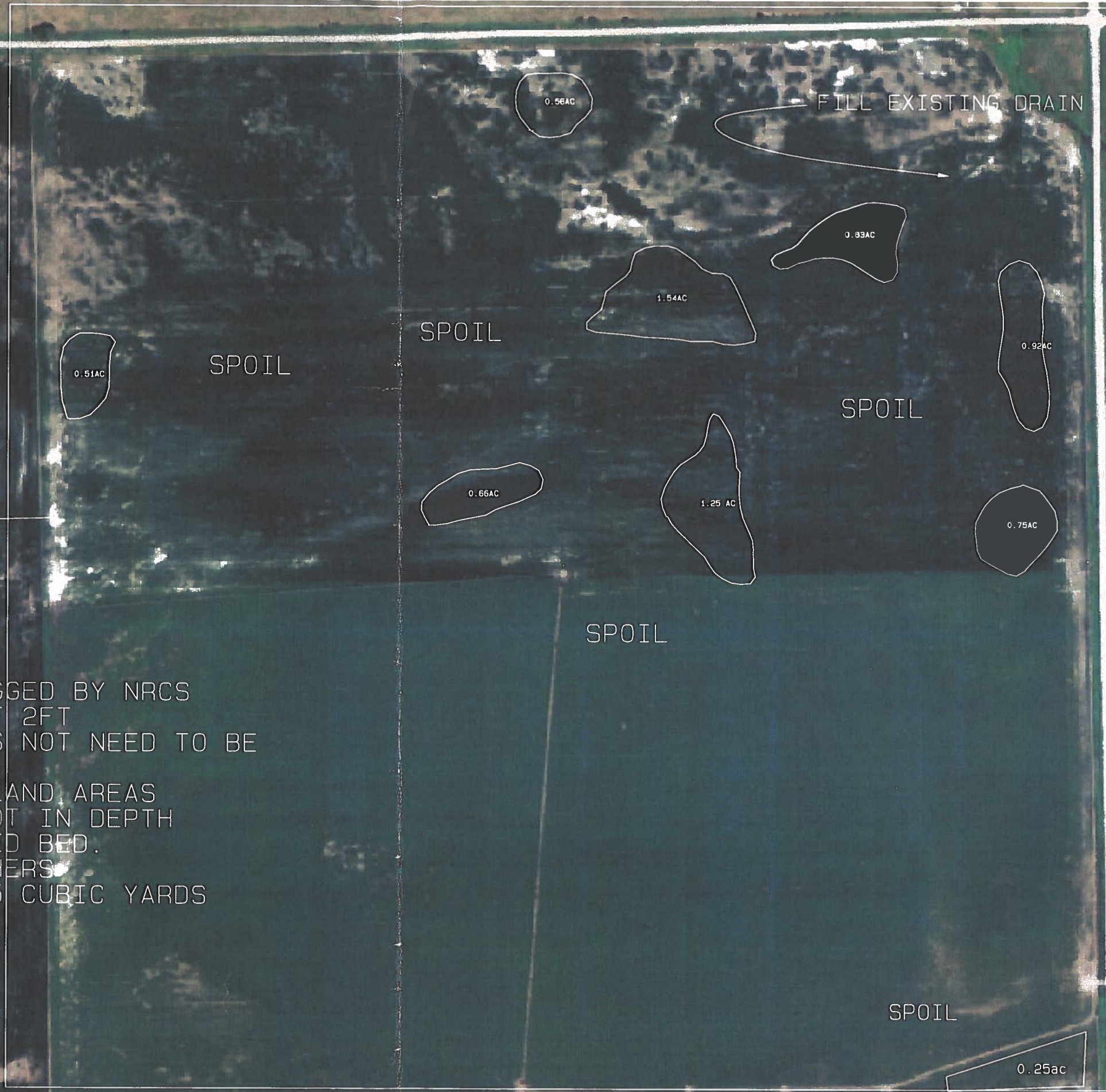


File No.

Drawing No.



SHALLOW EXCAVATION SITES
 EXCAVATED SITES WILL BE FLAGGED BY NRCS
 EXCAVATE TO A MAX DEPTH OF 2FT
 WITH 5:1 SIDE SLOPES SITES NOT NEED TO BE
 WORKED SMOOTH
 SPOIL WILL BE SPREAD IN UPLAND AREAS
 SPOIL NOT TO EXCEED 1/2 FOOT IN DEPTH
 AND WORKED FOR A SMOOTH SEED BED.
 SEEDING WILL BE DONE BY OTHERS
 AREA = 8.77 ACRES OR 25,905 CUBIC YARDS



| | | |
|----------|----------|------------|
| Designed | JOE DUSH | FEB 5 2015 |
| Drawn | JOE DUSH | FEB 5 2015 |
| Checked | | |
| Approved | | |

SHALLOW EXCAVATION SITES
 CHAD BOROWIAK
 NANCE COUNTY, NEBRASKA

SPACE RESERVED
 FOR ENGINEER'S
 STAMP

File No.
 Drawing No.

**UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service**

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|---|------------------------------------|
| County: Nance | Expiration Date: 12/31/2031 |
| Landowner/Rep (Name & Address): Cheatle Farms LLC 3501 N 216th St Elkhorn, NE 68022 | Contract No: 6665261301CKD |
| | Authorization No: |
| Purpose: To schedule for installation and maintenance of nature trails. To schedule for installation for hunting stands or blinds for recreational use. | |
| Land Description (Legal description and attached copy of map): NE1/4 28-16-4W | |
| <p>Beginning Condition of Site: <u>(1/18/2022)</u>: Most of the site is overall in good condition and has a diversity of moist soil species, native grasses, and forbs. Some undesirable species such as Kentucky bluegrass, smooth brome and Japanese brome is present. They are most prevalent in the northern portion. Cottonwood trees are scattered in some portions of the site but there is management being completed to try to control the problem.</p> <p>The wetland and the scattered wetland pockets across the site include rush, foxtail, Maximillian sunflower, foxtails, sedges, rush, prairie cordgrass, ragweed, and goldenrod. Cattails are present in the deep pockets.</p> <p>The northern portion, where it is more wet compared to the southern portion, contains of a mixture of foxtail, switchgrass, Virginia wildrye, big bluestem, prairie cordgrass, sunflower, goldenrod, ragweed, sedges and rush. Kentucky bluegrass is thick in the under-story in most areas.</p> <p>The southern portion of the site consists of big bluestem (dominant), Indiangrass, switchgrass, little bluestem, Canada wildrye, western wheat grass, round-headed bushclover, sunflowers, prairie coneflower, Illinois bundle flower, milkvetch, blazing star, yarrow and goldenrod. This area is less wet but does contain wet pockets. The Eastern edge is very thick with forbs.</p> <p>Site composition of entire site is about 50% native grasses & forbs, 45% moist soil species, and 5% undesirable cool season grasses.</p> | |
| <p>State of Effect & Compatibility: Placement of nature trails on the easement will allow the landowner to use the property for recreation and quiet enjoyment. The placement of the nature trails will not adversely affect the site's habitat quality or wetland integrity.</p> <p>Placement of a hunting blind or stand on the easement will allow the landowner to use the property for recreation and quiet enjoyment. The placement of blind/stands will not adversely affect the site's habitat quality.</p> | |

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Special Conditions (Specifications and other details of permitted activities.):

Nature Trails:

1. Nature trails may be maintained with mowing on an annual basis.
2. Mowing will not occur May 1 - July 15 unless a nest survey has been conducted according to USFWS protocol.
3. A map of the nature trail locations will be developed by the Team Leader in collaboration with the Landowner.
4. This practice is scheduled to begin in 2022 upon approval of CUA from the State Office.

Hunting Blind/stand:

1. Blind/stands will be no more than 80 ft² and 8-ft tall. It will have no foundation or poured concrete.
2. The blind/stands locations may fluctuate if needed. However, if placement is different than planned, notify NRCS
3. No fill will be placed in wetland when installing the blind.
4. A below ground blind will remain covered when not in use.
5. Placing and removing blind/stands may require heavy equipment to remove. Removal of blind/stand from the enrolled area must be done with minimal ground or vegetative disturbance.
6. Blind upkeep and removal activities are the responsibility of the landowner, who will pay for all related activities. These activities should minimize vegetative disturbance. In the event of extreme disturbance, the landowner shall be responsible for restoring the area to NRCS standards and specifications.
7. Disturbance to wildlife from location, placement, installation, maintenance, and use, especially during critical periods such as night roosting and nesting season, must be kept to a minimum.
8. This practice is scheduled to begin in 2022 upon approval of CUA from the State Office.

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

Recommended (NRCS Signature): **KRISTI SCHLEIF** Digitally signed by KRISTI SCHLEIF
Date: 2022.04.01 10:13:41 -05'00' Date: 4/1/2022

Title: Easement Specialist

Landowner or Representative (Signature): Michelle Chastu Date: 4/1/2022

Approved (NRCS Signature): **BRADLEY SONCKSEN** Digitally signed by BRADLEY SONCKSEN
Date: 2022.04.11 15:02:31 -05'00' Date: _____

Title: ASTC/Programs

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

Nature Trail & Blind/Stand Map




Customer: Cheattle Farms LLC
NEST #: 6665261301CKD
Approx Acres: 154.5
Legal Description: NE1/4 28-16-4W, Nance Co

Date: 3/25/2022
Field Office: GRAND ISLAND
Agency: CPNRD
Assisted By: KRYSTAL CHURCH



Field 1
Tract 1
154.5 Acres

Legend

-  Nature Trails
-  Stand/Blind
-  Boundary



11

12

13

14

**UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service**

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|---|------------------------------------|
| County: Nance | Expiration Date: 12/31/2031 |
| Landowner/Rep (Name & Address): Cheatle Farms LLC 3501 N 216th St Elkhorn, NE 68022 | Contract No: 6665261301CKD |
| | Authorization No: |
| Purpose: To schedule for chemical and mechanical control of undesirable species | |
| Land Description (Legal description and attached copy of map): NE1/4 28-16-4W | |
| <p>Beginning Condition of Site: (1/18/2022): Most of the site is overall in good condition and has a diversity of moist soil species, native grasses, and forbs. Some undesirable species such as Kentucky bluegrass, smooth brome and Japanese brome is present. They are most prevalent in the northern portion. Cottonwood trees are scattered in some portions of the site but there is management being completed to try to control the problem.</p> <p>The wetland and the scattered wetland pockets across the site include rush, foxtail, Maximillian sunflower, foxtails, sedges, rush, prairie cordgrass, ragweed, and goldenrod. Cattails are present in the deep pockets.</p> <p>The northern portion, where it is more wet compared to the southern portion, contains of a mixture of foxtail, switchgrass, Virginia wildrye, big bluestem, prairie cordgrass, sunflower, goldenrod, ragweed, sedges and rush. Kentucky bluegrass is thick in the under-story in most areas.</p> <p>The southern portion of the site consists of big bluestem (dominant), Indiangrass, switchgrass, little bluestem, Canada wildrye, western wheat grass, round-headed bushclover, sunflowers, prairie coneflower, Illinois bundle flower, milkvetch, blazing star, yarrow and goldenrod. This area is less wet but does contain wet pockets. The Eastern edge is very thick with forbs.</p> <p>Site composition of entire site is about 50% native grasses & forbs, 45% moist soil species, and 5% undesirable cool season grasses.</p> | |
| <p>State of Effect & Compatibility: In the past, Nebraska wetlands were disturbed frequently by fire and bison grazing. More recently, humans have decreased the amount of disturbances that occur. The reduction of these disturbances, including changes in frequency and timing, make these wetlands prone to invasion by undesirable species. Wetlands offer ample amounts of water, nutrients, and light which provide an exceptional opportunity for plants to grow. Undesirable plant species can quickly become a problem if they're not addressed early enough with management. This can lead to a decrease in native plants and wildlife use.</p> | |

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Special Conditions (Specifications and other details of permitted activities.):

Chemical and Mechanical Control of Undesirable Species (noxious weeds, trees, cattails, bulrush, invasive cool season grasses):

1. This CUA does not authorize the landowner to treat weeds that are not classified as noxious weeds (state defined) or not considered undesirable by NRCS. Noxious weeds are required by State law and the Warranty Easement Deed to be controlled by the landowner.
 - a. State listed noxious weeds are Canada thistle, musk thistle, plumeless thistle, Japanese and giant knotweed, leafy spurge, the non-native bio-type of phragmites, purple loosestrife, saltcedar, spotted and diffuse knapweed, and sericea lespedeza.
 - b. Species considered undesirable by NRCS because of their potential for becoming invasive and dominant are reed canary grass, cattail, river bulrush, brome species, and trees other than American plum.
 - c. The landowner is also responsible for checking with their county weed authority for the county listed noxious weeds.
2. Many species deemed weedy in agricultural land, such as annual sunflowers, are beneficial to wildlife and are not authorized for chemical weed control in this CUA.
3. Spot spraying selective herbicides may be used to control noxious weeds and other plants that are undesirable to NRCS. Spot spraying is authorized whenever an undesirable plant species is present. Spot spraying may occur throughout the timeline of this CUA if the target species are still present.
4. Broadcast spraying may be used when one or more undesirable plant species combined cover at least 25% of the spray area. Broadcast spraying may occur throughout the timeline of this CUA as long as the target species still cover at least 25% of the spray area.
5. Herbicide selection shall be based on the targeted species with consideration of protecting native grasses, forbs, sedges, and other desirable plants species. Timing of herbicide application will be conducted to allow for the successful control of targeted species while limiting impact to non-target species.
6. Herbicides will be applied according to the label. The landowner is responsible for following all label requirements on herbicides, including whether the chemical may be sprayed over water, wetland, pasture, etc.
7. Stumps of deciduous trees must be treated with herbicide according to the product label within 10 minutes of being cut.
8. Mechanical woody species removal will not be conducted between May 1st - July 15th unless a nesting survey has been conducted by a trained professional according to USFWS
9. This practice is scheduled to begin in 2022 upon approval of CUA from the State Office.

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

Recommended (NRCS Signature): KRISTI SCHLEIF Digitally signed by KRISTI SCHLEIF
Date: 2022.04.01 10:12:38 -05'00' Date: 4/1/2022

Title: Easement Specialist

Landowner or Representative (Signature): *Michelle Chumble* Date: 4/1/2022

Approved (NRCS Signature): BRADLEY SONCKSEN Digitally signed by BRADLEY SONCKSEN
Date: 2022.04.11 14:37:33 -05'00' Date: _____

Title: ASTC/Programs

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

Undesirable Species Management Map

Customer: Cheatle Farms LLC
NEST #: 6665261301CKD
Approx Acres: 154.5
Legal Descriptor: NE 1/4 28-16-4W, Nance Co

Date: 3/15/2022
Field Office: GRAND ISLAND
Agency: CPNRD
Assisted By: KRYSTAL BIALAS



Legend

 Boundary

0.1 0.05 0 0.1 Miles

N



**UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service**

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|--|------------------------------------|
| County: Nance | Expiration Date: 12/31/2026 |
| Landowner/Rep (Name & Address): Cheatle Farms LLC 3501 N 216th St Elkhorn, NE 68022 | Contract No: 6665261301CKD |
| | Authorization No: |
| Purpose: To schedule for prescribed grazing. | |
| Land Description (Legal description and attached copy of map): NE1/4 28-16-4W | |
| <p>Beginning Condition of Site: (1/18/2022): Most of the site is overall in good condition and has a diversity of moist soil species, native grasses, and forbs. Some undesirable species such as Kentucky bluegrass, smooth brome and Japanese brome is present. They are most prevalent in the northern portion. Cottonwood trees are scattered in some portions of the site but there is management being completed to try to control the problem.</p> <p>The wetland and the scattered wetland pockets across the site include rush, foxtail, Maximillian sunflower, foxtails, sedges, rush, prairie cordgrass, ragweed, and goldenrod. Cattails are present in the deep pockets.</p> <p>The northern portion, where it is more wet compared to the southern portion, contains of a mixture of foxtail, switchgrass, Virginia wildrye, big bluestem, prairie cordgrass, sunflower, goldenrod, ragweed, sedges and rush. Kentucky bluegrass is thick in the under-story in most areas.</p> <p>The southern portion of the site consists of big bluestem (dominant), Indiangrass, switchgrass, little bluestem, Canada wildrye, western wheat grass, round-headed bushclover, sunflowers, prairie coneflower, Illinois bundle flower, milkvetch, blazing star, yarrow and goldenrod. This area is less wet but does contain wet pockets. The Eastern edge is very thick with forbs.</p> <p>Site composition of entire site is about 50% native grasses & forbs, 45% moist soil species, and 5% undesirable cool season grasses.</p> | |
| <p>State of Effect & Compatibility: Wetlands provide challenges for management due to their productivity. In the absence of regular disturbance plant communities can become dense and rank due to their prolific growth. Undesirable or invasive plant species can overwhelm other species. Grazing is vitally important for managing wetlands because it provides the needed disturbance that helps maintain a diverse plant community. If grazed correctly, targeted species can be suppressed, reducing their ability to compete enough to allow desirable plants to express themselves.</p> | |

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

Special Conditions (Specifications and other details of permitted activities.):

Prescribed Grazing:

1. Landowner will follow the NRCS grazing plan. Cattle numbers or days will be adjusted based on seasonal site conditions.
2. Approximately 1/3 of the site will be grazed annually, following rotation on the map.
 - a. An annual rotation of grazing, burning, and a period of rest will occur.
3. Any deviations from the grazing plan will require the concurrence of the NRCS and will be documented in the grazing plan.
4. Annual grazing is not guaranteed. NRCS retains the right to alter annual grazing strategies to adjust to current ecological site condition and desired management results.
5. During drought years, the stocking rate must be reduced by 25%. Drought is defined as one or more months at a D2 (Severe Drought) or higher drought rating by the United States Drought Monitor.
6. The easement will be monitored by the landowner to ensure the site is not overgrazed.
7. This practice is scheduled for 2022 after approval by the state office.

NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents

Recommended (NRCS Signature): KRISTI SCHLEIF Digitally signed by KRISTI SCHLEIF
Date: 2022.04.01 10:10:43 -05'00' Date: 4/1/2022

Title: Easement Specialist

Landowner or Representative (Signature) Michele Chiche Date: 4/1/2022

Approved (NRCS Signature): BRADLEY SONCKSEN Digitally signed by BRADLEY SONCKSEN
Date: 2022.04.11 15:07:38 -05'00' Date: _____

Title: A S T C / P r o g r a m s

The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above.

PRESCRIBED GRAZING JOBSHEET
Grazing Schedule 2022

Client: Cheatle Farms LLC

64-85

Date: 3/25/2022

Green up - July 15

| Planned Grazing Days | Planned Estimated Days | | | Planned Actual In & Out Dates | | | | | | | |
|----------------------|------------------------|--------------|------------------|-------------------------------|------------------|----------------|-----------------|-----------------|------------------|----------------|-----------------|
| | ACRES | Livestock #s | % AUM by Pasture | Planned In Date | Planned Out Date | Actual In Date | Actual Out Date | Planned In Date | Planned Out Date | Actual In Date | Actual Out Date |
| C | 51.5 | 20 | 60 | 15-Apr | 9-Jul | | | 15-Apr | 9-Jul | | |
| A | 51.5 | 20 | 50 | 15-Apr | 21-Jun | | | 15-Apr | 21-Jun | | |
| B | 51.4 | 20 | 50 | 15-Apr | 17-Jun | | | 15-Apr | 17-Jun | | |


Grazing CUA

Customer: Cheatle Farms LLC
NEST #: 6665261301CKD
Approx Acres: 154.5
Legal Description: NE1/4 28-16-4W, Nance Co

Date: 3/25/2022
Field Office: GRAND ISLAND
Agency: CPNRD
Assisted By: KRYSTAL CHURCH



Legend


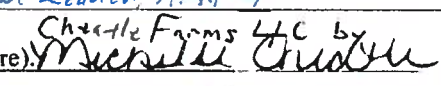
 Boundary





**UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service**

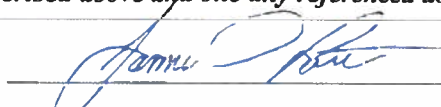
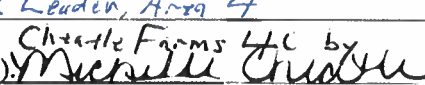
COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|--|---|
| County: Nance | Expiration Date: December 31, 2023 |
| Landowner/Rep (Name & Address): Cheatle Farms, LLC | Contract No: 66-6526-13-01CKD |
| | Authorization No: 1 |
| Purpose: Plant annual food plots on WRP for late winter food source for upland birds. | |
| Land Description (Legal description and attached copy of map): NE ¼ Sec. 28-16-4 | |
| Beginning Condition of Site: Establishing stand of native grass and forbs on WRP. | |
| State of Effect & Compatibility: Annual food plots will provide late winter food source for wildlife. | |
| Special Conditions (Specifications and other details of permitted activities. Attach copy of guidelines): Food plots will be planted annually to a grain producing crop to provide food during the winter months. Food plots will not be harvested. Noxious weed control must be done each year. Food plot acreage will not exceed 5% of total WRP acres. | |
| <i>NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents</i> | |
| Recommended (NRCS Signature):  | Date: 21 May 2019 |
| Title: RC + WRP Total Leases Area 4 | |
| Landowner or Representative (Signature):  | Date: 5/21/2019 |
| Approved (NRCS Signature): BRADLEY SONCKSEN | <small>Digitally signed by BRADLEY SONCKSEN Date: 2019.06.05 10:35:52 -05'00'</small> |
| Title: ASTC/Programs | |
| The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above. | |

Uploaded to CAS
on 23 May 2019.

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENT

| | |
|--|---|
| County: Nance | Expiration Date: December 31, 2023 |
| Landowner/Rep (Name & Address): Cheatle Farms, LLC | Contract No: 66-6526-13-01CKD |
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| Beginning Condition of Site: Establishing stand of native grass and forbs on WRP. | |
| State of Effect & Compatibility: Annual food plots will provide late winter food source for wildlife. | |
| Special Conditions (Specifications and other details of permitted activities. Attach copy of guidelines): Food plots will be planted annually to a grain producing crop to provide food during the winter months. Food plots will not be harvested. Noxious weed control must be done each year. Food plot acreage will not exceed 5% of total WRP acres. | |
| <i>NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents</i> | |
| Recommended (NRCS Signature):  | Date: 21 May 2019 |
| Title: RC + WRP Team Leader, Area 4 | |
| Landowner or Representative (Signature):  Cheatle Farms LLC by | Date: 5/21/2019 |
| Approved (NRCS Signature): _____ | Date: _____ |
| Title: _____ | |
| The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above. | |

WRP Map

Date: 5/20/2019

Customer(s): CHEATLE FARMS, LLC

District: CENTRAL PLATTE NATURAL RESOURCES DISTRICT

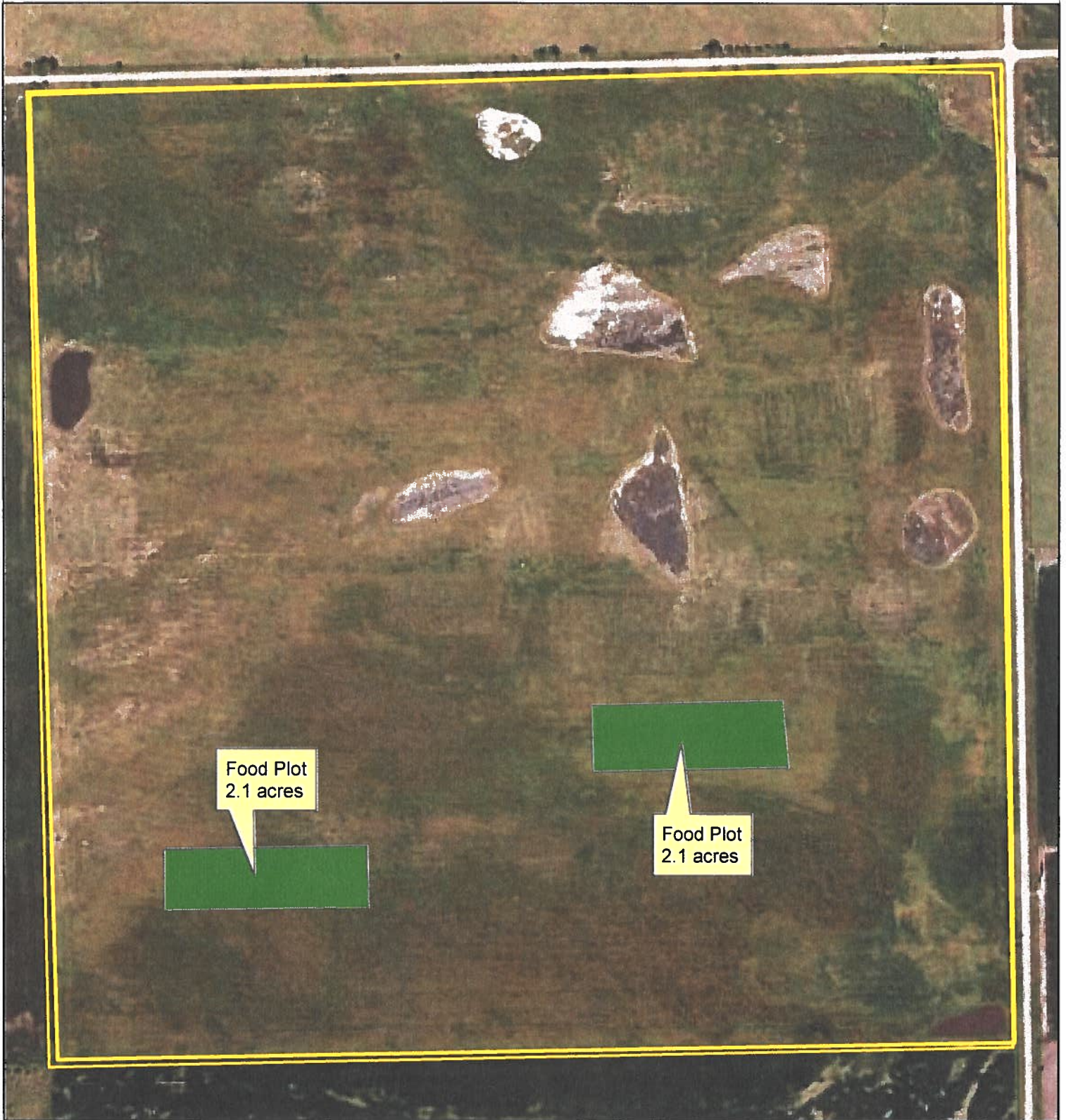
Legal Description: NE 1/4 Sec. 28-16-4

Field Office: SAINT PAUL SERVICE CENTER

Agency: NRCS

Assisted By: James D. Lott

State and County: NE, Nance



Legend

 T1995

Prepared with assistance from USDA-Natural Resources Conservation Service




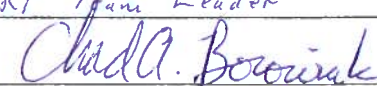
UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | |
|---|------------------------------------|
| County: Nance | Expiration Date: December 31, 2014 |
| Landowner/Rep (Name & Address): Chad A. Borowiak 54337 S 370th Ave. Genoa, NE 68640 | Contract No: 66-6526-13-01CDK |
| | Authorization No: 1 |
| Purpose: Crop WRP acres in 2014 since funding is not available to complete grass & shrub plantings. Cropping will save USDA funds by maintaining acceptable ground cover rather than leaving idle until funds are available. | |
| Land Description (Legal description and attached copy of map): NE ¼ Sec. 28-16-4 | |
| Beginning Condition of Site: Soybean stubble from 2013 crop. | |
| State of Effect & Compatibility: Annual weeds will be controlled by cropping. This will reduce weed pressure and the need for weed control as site prep to be included as a cost sharable item in the Restoration Plan. | |
| Special Conditions (Specifications and other details of permitted activities. Attach copy of guidelines): Annual crop planted prior to July 1, 2014. No cultivating or ridges built to maintain smooth seedbed after crop is harvested. Landowner is to contact FSA & is not eligible for USDA benefits on WRP acres that are cropped in 2014. Crop must be planted prior to July 1, 2014. Failure to maintain desired condition of WRP acres would result in violation. Annual crop planted for 2014 will be harvested and crop stubble maintained to allow grass seeding and shrub plantings after November 1, 2014 – May 15, 2015. | |
| <i>NRCS retains the right to modify or cancel this compatible use authorization at any time if the NRCS determines that such activities do not further the protection and enhancement objectives of the easement, or that the landowner has failed to comply with specified terms and conditions. The landowner engages in such activities at his/her own risk. This authorization does not vest any right of any kind to the Landowner. This authorization is null and void after the expiration date specified above. By signing this document, the landowner agrees to the terms described above and one any referenced documents</i> | |

UNITED STATES DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

COMPATIBLE USE AUTHORIZATION FOR WRP EASEMENTS

| | | | |
|--|--|-------|---------------|
| Recommended (NRCS Signature): |  | Date: | 24 April 2014 |
| Title: | RC & Area 4 WRP Team Leader | | |
| Landowner or Representative (Signature): |  | Date: | 4-28-14 |
| Approved (NRCS Signature): | Mailed to SO on 1 May 2014 | | |
| Title: | | | |
| The signature by the NRCS representative signifies a CCC-NRCS transaction as indicated above. | | | |

Specifications for individual prescribed burn management plans will be prepared by certified individuals as described in Nebraska's Policy for Participation in the Planning and Application of Prescribed Burns located in the Nebraska General Manual Title NE 190 Part NE413. Burn plans will be prepared for each site following Prescribed Burn Design Procedures (338DP), located in the eFOTG, Section IV and recorded using Prescribed Burn Management Plan (NE-ECS-72) or equivalent. All necessary permits must be obtained and a burning plan developed before implementation of the practice. This document shall remain in possession of the land owner.

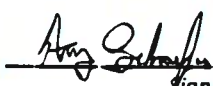
Landowner Name: Cheatle Farms LLC

Burn Unit Name or Legal Description 28-16-4W

NRCS PRESCRIBED BURN PLANS and NRCS BURNS: All prescribed burn plans developed by NRCS employees and/or prescribed burns conducted for NRCS administered programs SHALL BE APPROVED PRIOR TO IMPLEMENTATION. Use CAP-112 cover page for TSP developed plans.

PLAN APPROVAL FOR NRCS PRESCRIBED BURN PLANS:

NRCS prescribed burn plans will be checked by an individual, other than the planner, who has Job Approval Authority (JAA) for the class of burn being planned or higher. Plans may be approved by anyone with appropriate JAA including the person who developed the plan, provided that person holds appropriate JAA.

| | | |
|--------------------|---|----------|
| PLAN DEVELOPED BY: | JOB CLASS OF BURN: | II |
| Amy Schaefer |  | 3/7/2022 |
| Name (Print) | Signature | Date |

| | | |
|------------------|---------------------------|---|
| PLAN CHECKED BY: | TRENT FINDLEY (Affiliate) | Digitally signed by TRENT FINDLEY (Affiliate) |
| | | Date: 2022.03.07 11:50:26 -06'00' |
| Name (Print) | Signature | Date |

| | | |
|-------------------|---------------------------|---|
| PLAN APPROVED BY: | TRENT FINDLEY (Affiliate) | Digitally signed by TRENT FINDLEY (Affiliate) |
| | | Date: 2022.03.07 11:51:07 -06'00' |
| Name (Print) | Signature | Date |

PRACTICE CERTIFICATION:

NRCS prescribed burns will be certified by an individual with appropriate JAA for the class of burn. Non-NRCS prescribed burns, such as CRP burns, may be certified by any individual with JAA Class 1a or higher.

This practice has been applied as designed.

| | |
|---|------|
| Signature Owner/Operator or TSP (if TSP TA funds used for burn) | Date |
|---|------|

Certification of NRCS burns: This prescribed burn was installed according to NRCS Standards and Specifications and meets the objective(s) of Conservation Practice Standard 338 - Prescribed Burning. Copies of completed and signed NE-ECS-72 Prescribed Burn Plan (or equivalent), copies of burn crew roster, and burn permit have been provided.

| | |
|----------------|------|
| Signature NRCS | Date |
|----------------|------|

Certification of CRP and other Non-NRCS Prescribed Burns: This prescribed burn was completed and the objectives of Conservation Practice 338 - Prescribed Burning were met. The following documentation has been provided: Copies of the prescribed burn plan and burn permit.

| | |
|----------------|------|
| Signature NRCS | Date |
|----------------|------|



SECTION I. GENERAL BURN UNIT INFORMATION

Owner / Operator: Cheatle Farms LLC Burn Unit Name: Cheatle Burn
 Address: N/A Phone No: N/A
 E-mail: N/A Cell No: N/A
 Legal Description: 28-16-4W County: Nance
 Acres in Burn Unit: 51 Burn Job Class: II
 Land Use of Burn Unit: Range, Pasture, CRP, Crop, Other (describe): WRP
When burn unit includes multiple landowners, record the primary owner above and list other owners on an attachment.

SECTION II. OBJECTIVE/PURPOSE OF BURN (Select all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Reduce Eastern Red Cedar | <input checked="" type="checkbox"/> Control other woody plants - List <u>Cottonwood</u> |
| <input checked="" type="checkbox"/> Stimulate Warm Season Grasses | <input checked="" type="checkbox"/> Reduce Cool Season Grasses |
| <input checked="" type="checkbox"/> Improve Wildlife Habitat | <input checked="" type="checkbox"/> Stimulate Forbs / Increase Diversity |
| <input type="checkbox"/> Improve Grazing Distribution | <input type="checkbox"/> Remove Litter / Slash |
| <input type="checkbox"/> Reduce Wildfire Hazard | <input type="checkbox"/> Other-list _____ |

SECTION III. DESCRIPTION OF BURN UNIT

SECTION III PART A. Woody Plant Community Description

% Volatile woody: 0 % Non-volatile woody: 10

| Woody Type | Species Present | Estimated % Cover |
|------------------|-----------------|-------------------|
| Coniferous Trees | N/A | N/A |
| Deciduous Trees | Cottonwood | 10 |
| Shrubs | N/A | N/A |

SECTION III PART B. Describe predominant herbaceous vegetation types present. List type (cool or warm season), height, likely growth stage at time of burn, % volatile and non-volatile and existing/planned amount of fine fuel (pounds/ac).

% volatile herbaceous: 10 % non-volatile herbaceous: 90
 Amount Fine Fuel (lbs./ac) Existing: 4ft Planned: 4ft
 Predominant Fuel Height (ft.) Existing: 4000 Planned: 4000

Type of vegetation - check the box for vegetation type(s) present:

| Vegetation Present | Circle (or Highlight) Applicable Type | List Primary Species |
|--|--|------------------------------------|
| <input type="checkbox"/> Seeded grass | Warm Season, Cool Season, CRP | |
| <input checked="" type="checkbox"/> Native Rangeland | Tall Grass, Mixed Grass, Shortgrass, Sandhills | Switchgrass, Indiangrass, Wild Rye |
| <input type="checkbox"/> Weedy Cover | Broadleaf, Grassy, Mixed | |
| <input type="checkbox"/> Cropland | Wheat Stubble, or list to right | |

SECTION III PART C. Burn Unit History: Describe General Management over the past 5 years (i.e. grazed, rested, CRP, etc.) Include years since last grazing, haying, mowing or burning.

Rested

SECTION III PART D. Pre-Burn Conservation Practice Implementation: List practices to be implemented before the prescribed burn is conducted. This may include grazing deferment (removal of livestock to grow fine fuel), mechanical brush management, etc. Fuelbreaks and Firebreaks are listed elsewhere in this document.

N/A



SECTION IV. FIRE PLAN - PREPARATION

SECTION IV PART A-1: Prescribed Burn Plan Map. Attach a copy of the prescribed burn plan map, which includes all of the information listed (if applicable). See Section IV Parts A2 through A6.

Prescribed Burn Map which will include a North arrow, landowner &/or burn unit name, firebreak locations and types, areas needing protection, brush piles, steep areas and other areas that may impact fire behavior (interior or exterior), water sources, location of equipment, location of crews, safety zones, description of fuels/land cover on adjacent land, hazards, gates & other access points. Additional items related to the burn prescription such as prescribed wind direction, ignition point(s), firing sequence, staging area, and other pertinent items.

SECTION IV PART A-2. Areas needing Pre-Burn Protection: Show areas on Burn Map. Check items identified in the site visits and indicate the date that protection was completed.

| Area or Structure | Type of Protection Needed | Date Completed |
|--|---------------------------|----------------|
| Houses, Barns or other buildings | N/A | |
| Feeders, pens, corrals, and/or equipment | N/A | |
| Watering Systems, Fences | N/A | |
| Utility Poles, Wind Turbine, Oil or Gas Structures | Wet down poles | |
| Hay / Feed | N/A | |
| Special Habitats, Desirable Wooded Areas, Wetlands, Lakes, Streams | N/A | |
| Critically eroding areas | N/A | |
| Other (describe): N/A | N/A | |

SECTION IV PART A-3. Describe Planned Firebreaks or Fuel Breaks: Include type, length and width of firebreak and actions to be taken to create firebreak. Show the location of Fire/Fuel Breaks on burn plan map. Types of fire breaks include but are not limited to: mowed, grazed, disked, bare soil, road, and water. Minimum Fire Break Widths are listed below. Field conditions may dictate larger fuel breaks.

| Vegetation Type | Upwind Side | Downwind Side greater of listed width or 10 x tallest vegetation | Downwind Flank |
|-------------------------|-------------------------------|--|-------------------------------|
| Non-Volatile Herbaceous | 20' | 20' | 20' |
| Volatile Herbaceous | 20' | 40' | 30' |
| Non-Volatile Woody | 20' | 60' | 50' |
| Volatile Woody | 50' | 300' See Design Procedures if 300' is not feasible | 150' |
| Red Slash | 300' inside unit 200' outside | 300' inside and outside unit | 300' inside unit 200' outside |

| Location of Firebreak or Fuelbreak | Type of Fire Break or Fuel Break | Length | Min Width |
|------------------------------------|----------------------------------|---------|-----------|
| North | Mowed | 0.5 mi | 40 ft |
| East | Natural | 0.17 mi | 20 ft |
| South | Mowed | 0.5 mi | 20 ft |
| West | Mowed | 0.17 mi | 40 ft |

Additional Comments about Planned Firebreaks and / or Fuelbreaks *Adjust accordingly with wind direction and wetland conditions*

SECTION IV PART A-4. Existing Condition: Describe type of vegetation and other conditions of land adjacent to burn unit (all sides of unit) and document on burn plan map.

| | |
|------------|---|
| Northwest: | Alfalfa |
| North: | Wetland - Tallgrass, some cottonwoods, rested |
| Northeast: | Corn Stubble |
| East: | Bean Stubble |



| | |
|------------|-----------------------------------|
| Southeast: | Wetland - mainly wild rye, rested |
| South: | Bean stubble |
| Southwest: | Riverine - Cottonwood and willows |
| West: | Alfalfa |

SECTION IV PART A-5. Describe Potential Hazardous Areas Within Burn Area: Show areas on Burn Map (power lines, snags, structures, obstacles to vehicle access, underground utilities, oil and gas tanks or equipment, etc.).

See map. 3 hazards on southern edge of unit are electrical panel boxes. Will be on outside of firebreaks.

SECTION IV PART A-6. Describe access Points to Unit and adjacent Lands: Include location of gates and/or let downs, stream crossings, open access, etc. Show locations on Burn Map.

See map

SECTION IV PART B: Additional Resource Maps and materials. Attach copies of the following maps to this plan.

- Map of the general area extending 2 miles (or more) out from the burn unit. Identify roads, building sites, schools, communities, airports, and other areas that may be impacted by the prescribed burn. Include section, township and range.
- Soils Map, with legend
- Ecological Site Map
- Topographic Map
- Shaded Relief Map (Optional)

SECTION IV PART C. Residences and Businesses within a 2 mile radius of the burn unit: Contact all parties well in advance of the planned burn date to notify them of the planned burn.

| Direction from Unit (mi) | Name | Physical Address | Phone Number |
|----------------------------|-------------------------------|--|---------------------|
| <i>EXAMPLE:</i> | | | |
| <i>1.5 miles Northeast</i> | <i>Joe Johnson Farm</i> | <i>13567 333 Road, Anywhere, NE</i> | <i>555-234-3388</i> |
| 1.1 NE | Bruce and Connie Schneider | 55744 S 380th Ave Silver Creek, NE 68663 | LO Assistance |
| 1.2 SE | Joel and Cindy Vollerston | 38108 S 570th St Silver Creek, NE 68663 | LO Assistance |
| 2 SE | Thaddeus Ziemba | 38968 S 570th St Silver Creek, NE 68663 | LO Assistance |
| 1.8 N | Robert and Michelle Konwinski | 54238 S 370th Ave Genoa, NE 68640 | LO Assistance |
| 0.7 N | Walter and Wife Bialas | 55298 S 370th Ave Genoa, NE 68640 | LO Assistance |
| 1 NE | Chester Ziemba | 55557 S 380th Ave Silver Creek, NE 68663 | LO Assistance |
| 0.5 E | Daniel and Emily Bialas | 37249 S 560th St Silver Creek, NE 68663 | LO Assistance |
| 1 E | Viginia Konwinski | 56791 S 380th Ave Silver Creek, NE 68663 | LO Assistance |
| 0.5 S | Gene and Davida Swertzic | 37109 S 570th St Silver Creek, NE 68663 | LO Assistance |
| 1.2 SE | Brandon and Kasey Konwinski | 57241 S 380th Ave Silver Creek, NE 68663 | LO Assistance |
| 1.5 SE | Blane Konwinski | 37418 S 580th St Silver Creek, NE 68663 | LO Assistance |
| 1.5 SE | Brent and Heidi Holm | 57767 S 380th Ave Silver Creek, NE 68663 | LO Assistance |
| 2 N | Bennie and Verleen Rinkol | 36760 S 540th St Genoa, NE 68640 | LO Assistance |
| 1.6 N | Genevieve Borowiak | 54337 S 370th Ave Silver Creek, NE 68663 | LO Assistance |
| 1.4 NW | Paul and Sharon Borowiak | 54642 S 360th Ave Silver Creek, NE 68663 | LO Assistance |
| 1 NW | Eugene and Geri Kula | 55102 S 360th Ave Silver Creek, NE 68663 | LO Assistance |
| 0.6 N | James Bialas | 55363 S 370th Ave Genoa, NE 68640 | LO Assistance |
| 0.7 SW | Raymond Zelazny | 57040 S 360th Ave Silver Creek, NE 68663 | LO Assistance |
| 1.7 NW | Michelle Edelman | 54475 S 360th Ave Silver Creek, NE 68663 | LO Assistance |
| 1.3 SW | Gilbert and Sandra Bialas | 35240 S 570th St Silver Creek, NE 68663 | LO Assistance |



NEBRASKA PRESCRIBED BURN MANAGEMENT PLAN

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| | | | |
|--------|-------------------------|--|---------------|
| 1.7 SW | Marjorie Brandenburger | 37504 S 350th Ave Silver Creek, NE 68663 | LO Assistance |
| 1 SW | Jermone Yrkoski | 35719 S 570th St Silver Creek, NE 68663 | LO Assistance |
| 2 SW | Jerome Zelazny | 57794 S 350th Ave Silver Creek, NE 68663 | LO Assistance |
| 1.3 SW | Elizabeth Kennedy | 57527 S 360th Ave Silver Creek, NE 68663 | LO Assistance |
| 1.5 W | Shelby Heinen | 56725 S 350th Ave Silver Creek, NE 68663 | LO Assistance |
| 1.7 W | Denita and Rick Curry | 34810 S 570th St Silver Creek, NE 68663 | LO Assistance |
| 2 SW | Allan and Patti Urkoski | 57893 S 350th Ave Silver Creek, NE 68663 | LO Assistance |



SECTION IV PART D. Highways or other rights-of-way: List all within a two mile radius of the planned burn.

Example: US highway 6 - 2 miles south of unit

- 1 S 540th St - 2.3 miles north of unit
- 2 S 550th St - 1.3 miles north of unit
- 3 S 560th St - 0.3 mile north of unit
- 4 S 570th St - 0.5 mile south of unit
- 5 S 580th St - 1.5 miles south of unit
- 6 S 350th Ave - 1.5 miles west of unit
- 7 S 360th Ave - 0.5 mile west of unit
- 8 S 370th Ave - East border of unit
- 9 S 380th Ave - 1 mile east of unit
- 10 S 390th Ave - 2 miles east of unit

SECTION IV PART E. Adjoining Landowners: List names and phone numbers at the time that the plan is being developed. Notify neighbors living within a two-mile radius, owners of adjoining land, businesses, schools, etc. within 2 miles, well in advance of the planned burn date; record date notified as notification occurs.

| | Name | Phone Number | Date Notified |
|---|----------------------------|----------------|---------------|
| 1 | James Bialas | (308) 773-2416 | |
| 2 | Frances Cieloha | (402) 897-4775 | |
| 3 | Daniel and Emily Bialas | (308) 773-2416 | |
| 4 | JMMD Investments LLC | N/A | |
| 5 | Lincoln Williams Farms LLC | (308) 548-2612 | |
| 6 | Eugene and Geri Kula | (308) 773-2446 | |
| 7 | Rita Bialas | (402) 564-8240 | |
| 8 | Paul and Sharon Borowiak | (402) 948-0055 | |

SECTION IV PART F. SAFTEY PERSONNEL AND OTHER AGENCIES: List name and phone number at time of plan development; record date as notification occurs.

| | Name | Phone Number | Date Notified |
|---|---|---------------------|----------------------|
| FIRE DEPARTMENTS | | | |
| | Primary Department: Silver Creek VFD | (308) 773-2477 | |
| | Chief (Name): Travis Vanek | N/A | |
| | Mutual Aid Fire Departments: | Fullerton VFD | (308) 536-2428 |
| | | N/A | N/A |
| LAW ENFORCEMENT | | | |
| | Sheriff's Name: Davis Moore | (308) 536-2821 | |
| | State Patrol: Troop C - Grand Island | 911 | |
| UTILITY or OIL and GAS, GAS PIPELINE, and/or WIND ENERGY COMPANIES | | Phone Number | Date Notified |
| A. | Cornhusker Public Power District | (402) 564-2821 | |
| B. | CenturyLink | (800) 244-1111 | |
| C. | N/A | N/A | |
| EMERGENCY (NEAREST HOSPITAL AND EMERGENCY AMBULANCE SERVICE) | | | |
| A. | Genoa Community Hospital | 911 | |
| B. | Annie Jeffrey Memorial County Health Center | 911 | |



| | | | |
|----|-----|-----|--|
| c. | N/A | N/A | |
|----|-----|-----|--|



SECTION V - FIRE PLAN - IMPLEMENTATION OF PRESCRIBED BURN

SECTION V PART A. ENVIRONMENTAL CONDITIONS NEEDED TO ACCOMPLISH OBJECTIVES

- Planned Date Range for Burn: 3/8/2022 through 4/30/2022
(Time of year and/or stage of plant growth that will best meet prescribed burn objectives)
- List pertinent fuel conditions that could impact success of burn. Wetland conditions
- List other plant or animal concerns (Migratory Bird Treaty Act, Threatened and Endangered Species, etc.):
During the Whooping Crane migration (Fall: 10/9 - 11/15; Spring: 3/6 - 4/29), the following conservation conditions will be observed: Survey project each day within one hour of start of workday, with at least one survey done no later than 10 am. Record start and stop time. Survey area within 0.5 of project using binoculars or spotting scope. If Whooping Cranes are not seen during the morning survey, work may begin after completion of the survey. If Whooping Cranes are spotted within 0.5 miles of the active construction, do not start work. Contact the NE Game and Parks Commission (NGPC) or the U. S. Fish and Wildlife Service (USFWS) for further instruction. Stop work if seen at times other than the morning survey, and contact NGPC and USFWS. Work can begin or resume if birds move off and are greater than 0.5 miles from the construction/activity area; record sighting, bird departure time, and work start time on survey form.
- Acceptable Weather Conditions for Prescribed Burn
Weather will be checked and recorded every 1/2 hour by person designated by Burn Boss. Conditions will be relayed to Burn Boss and crews. All ignition sequences and resource assignments may be adjusted at the discretion of the Burn Boss to respond to changing conditions. Obtain location and date specific weather forecast the morning of the burn. Check site and day specific forecasts including the hourly weather graph.

On the morning of the burn, print the current hourly weather graph and attach it to this plan.

- <http://forecast.weather.gov/gridpoint.php?site=oax> Omaha
- <http://forecast.weather.gov/gridpoint.php?site=gid> Hastings/Grand Island
- <http://forecast.weather.gov/gridpoint.php?site=lbf> North Platte
- <http://forecast.weather.gov/gridpoint.php?site=cys> Panhandle (Cheyenne)

| WEATHER FACTOR | NRCS Max or Min Values | RANGE OF ACCEPTABLE CONDITIONS (From Low - To High) | | | ACTUAL CONDITIONS (From Low - To High) | | |
|---|------------------------|---|----|------|--|----|--|
| WIND SPEED | < 20 MPH | 5 | to | 20 | | to | |
| WIND DIRECTION | | Any but west | | | | | |
| REASON FOR WIND DIRECTION RESTRICTION IN THIS PLAN | | Power lines | | | | | |
| RELATIVE HUMIDITY | > 25% | 25 | to | 50 | | to | |
| IF ACCEPTABLE RH IS LESS THAN NE NRCS RECOMMENDED VALUE, LIST REASON FOR DEPARTURE FROM NRCS SPECIFICATIONS | | | | | | | |
| AIR TEMPERATURE | <80° F | 30 | to | 80 | | to | |
| PLANNED SOIL MOISTURE (Dry, Damp, Wet) | | | | | | | |
| Desired soil moisture content at surface (0-6") - dry, damp, wet: | | Dry | to | Damp | | to | |



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| | | | | | | |
|---|-------------|-----------|------------|--|-----------|--|
| Desired soil moisture content below surface (minimum of 6-12") - dry, damp, wet: | Damp | to | Wet | | to | |
| <p>When land is listed as in extreme or exceptional drought conditions in the National Drought Mitigation Center's US Drought Monitor, evaluate impact to desired plant community. If drought and fire will adversely impact plant growth, delay burning until soil moisture conditions are favorable.</p> <p>http://droughtmonitor.unl.edu/</p> | | | | | | |



SECTION V PART B. FIRING METHOD OR IGNITION PLAN

1. Describe Firing Method/Firing Sequence (backing fire, flank fire, head fire, strip fire, etc.) below or attach a sheet with this information to the back of this form. Using numbers or letters, designate the firing sequence on the burn plan map and describe in detail.

The following description is considered just a simplified guide on how to burn this particular burn unit and is based off an idealized southeastern wind direction and should not be considered a literal step by step or play by play. The burn boss and crew bosses will have full discretion on the burn day to dictate how it is actually burned according to wind direction, personnel, and local conditions. The planner assumes no liability that arises due to the actions taken on the actual burn and assumes that the burn boss and crew are experienced enough to lead burns of this complexity. This fire will be completed using a Ring Fire technique. With a southeastern wind, Crew 1 and Crew 2 will meet at point A and position. Crew 1 will head east, and Crew 2 will head south (placement of engines and additional water tanks will be dictated once on site). A phone call will be placed to the Nance county sheriffs office to let them know a burn will commence. A test fire will be lit to determine smoke behavior and behavior of grass fuels. The burn boss will then make the call to GO/NO-GO. If the burn boss gives the GO signal, Crew 1 will proceed along the northern control line, lighting off a mowed firebreak toward point B and HOLD at point B. Crew 2 will proceed along the western control line, lighting off a mowed firebreak toward point D and HOLD at point D. Follow up ATV/UTVs will be utilized to watch for any spotfires for each crew. Once Crew 1 reaches point B, and Crew 2 reaches point D, both crews will need to STOP and wait for an adequate black line. Stripping head fires may be used throughout the burn with the burn boss's instruction. When an adequate black line is established, Crew 1 and Crew 2 will advance to point C, with Crew 1 lighting of a natural firebreak, the county road, and Crew 2 continuing to light off a mowed firebreak. Once both crews reach point C, they will have completed the Ring of Fire.

SECTION V PART C. CONTINGENCY PLANS

1. ESCAPE RESPONSE

Designate an Initial Attack suppression unit from each team as first responder to an escape on each side of the burn unit. Escapes or spot fires should first be attacked or approached ONLY FROM THE UPWIND SIDE by any unit or personnel. With safety as the highest priority, designated units and spotters/patrol units will respond initially to suppress any fire outside the unit. The Burn Boss will be immediately alerted of the situation, and kept informed of progress. If the initial efforts at containment are unsuccessful, the Burn Boss may order all ignitions to cease and assign additional units to respond to the escape. All other units may hold original positions. **The Burn Boss will be responsible for contacting local fire chief if deemed necessary to contain the escape.** List any site specific escape responses:

For contingency control lines, utilize the county roads for defense outlined on the contingency map. For an offensive attack, that will be left to the decision of the burn boss to react according to the situation at hand.

2. WIND CHANGE RESPONSE - Attach details of site specific contingency plan actions

If the team experiences a sustained major wind direction shift during the burn, the Burn Boss will evaluate the feasibility of safely continuing the burn compared to extinguishing the burn. Resources and personnel will be reassigned appropriately at the discretion of the Burn Boss. Safety of the crew will remain the primary concern. List any site specific responses to wind changes:

For safety, move to the black, designated safety zone, or county roads unless instructed by the burn boss otherwise.

OPTIONAL BURN CREW ROSTER

(Complete the day of Burn)

Burn Unit Name: _____

Number of people needed to conduct burn: _____

Burn Boss _____

TEAM ID

Engine/Pumper Drivers

Hose Operators

Igniters

Lead ATV/UTV Patrol

Additional ATV/UTV Patrol

Hand Tool Operators

Lookout/Weather

Other (Specify Job)

TEAM ID

Engine/Pumper Drivers

Hose Operators

Igniters

Lead ATV/UTV Patrol

Additional ATV/UTV Patrol

Hand Tool Operators

Lookout/Weather

Other (Specify Job)

OPTIONAL PRESCRIBED BURN CHECKLIST

(To be reviewed and filled out before burning on the DAY OF BURN)

Pre-burn Checklist (Day of Burn):

- | | YES | NO |
|--|--------------------------|--------------------------|
| 1. Weather forecast favorable (predicted within burn prescription) | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Necessary firebreaks have been constructed | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Potential hazards have been accounted for | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Special precaution areas noted | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Backup/secondary firebreak locations noted | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Safety equipment is adequate | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Tools and equipment are on-site | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Adequate personnel are available | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Special considerations have been reviewed with crew(s) | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Burn Permit obtained from local fire chief and on site | <input type="checkbox"/> | <input type="checkbox"/> |

IF ANY OF THE ABOVE ARE ANSWERED "NO", DO NOT BURN

| | Required | Actual | Time Recorded |
|--|--------------------------|--------------------------|---------------|
| 11. Actual weather conditions at burn site | | | |
| a. Air Temperature | _____ | _____ | _____ |
| b. Relative Humidity % | _____ | _____ | _____ |
| c. Wind Speed | _____ | _____ | _____ |
| | YES | NO | |
| d. Soil Moisture Adequate | <input type="checkbox"/> | <input type="checkbox"/> | |
| e. Acceptable Wind Direction | _____ | | |
| g. Actual Wind Direction | _____ | | |
| h. Fronts or changes expected | <input type="checkbox"/> | <input type="checkbox"/> | |
| 12. Notification of units of government made | | | |
| a. Local Fire Department | <input type="checkbox"/> | <input type="checkbox"/> | |
| b. Sheriff/County Dispatch | <input type="checkbox"/> | <input type="checkbox"/> | |
| 13. Neighbors notified | <input type="checkbox"/> | <input type="checkbox"/> | |

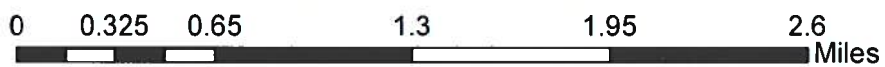
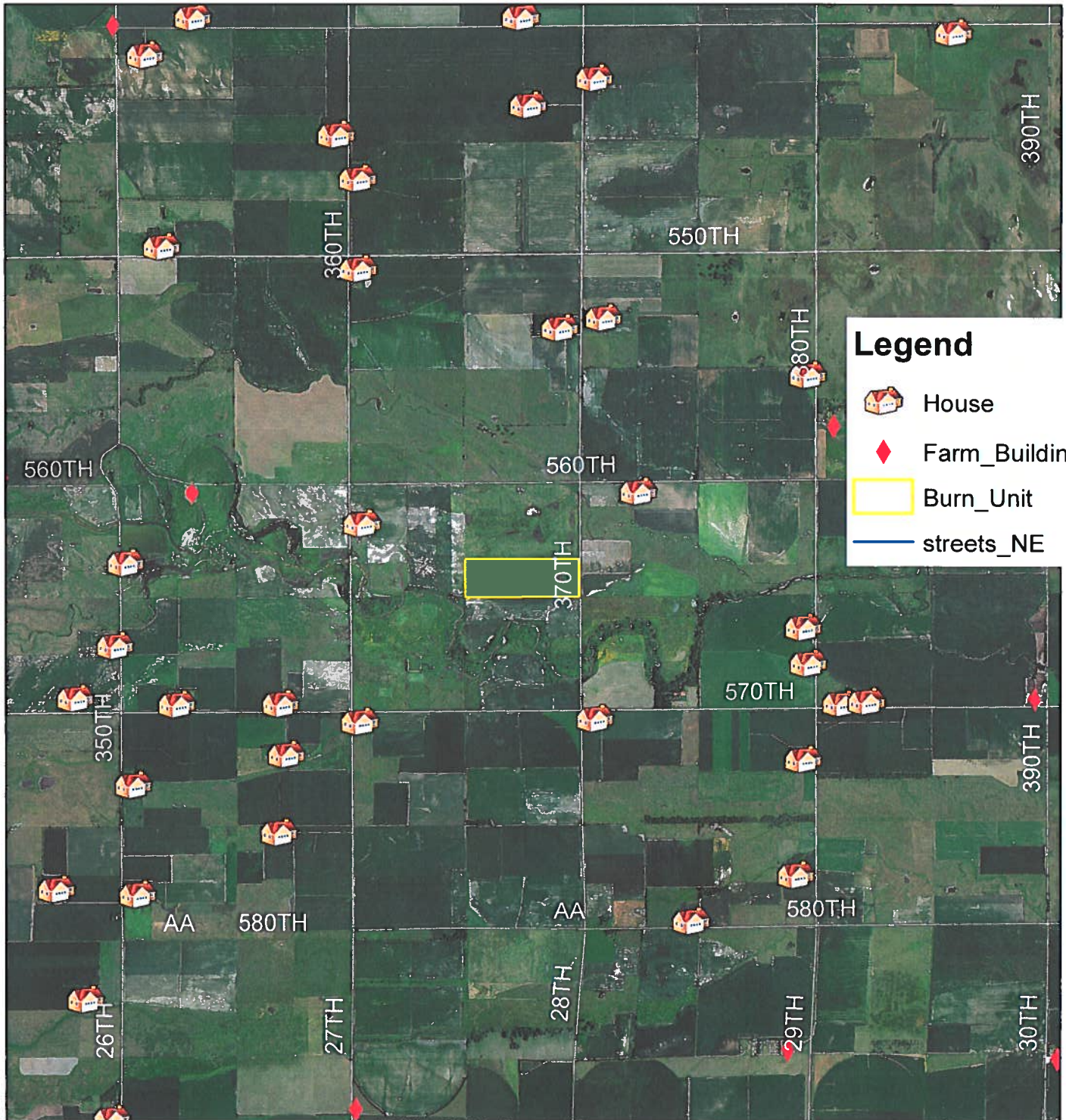
Checklist completed by: _____

Date: _____

2 Mile

Customer(s): Cheatle Farms LLC
District: Lower Loup NRD
Legal: 28-16-4W

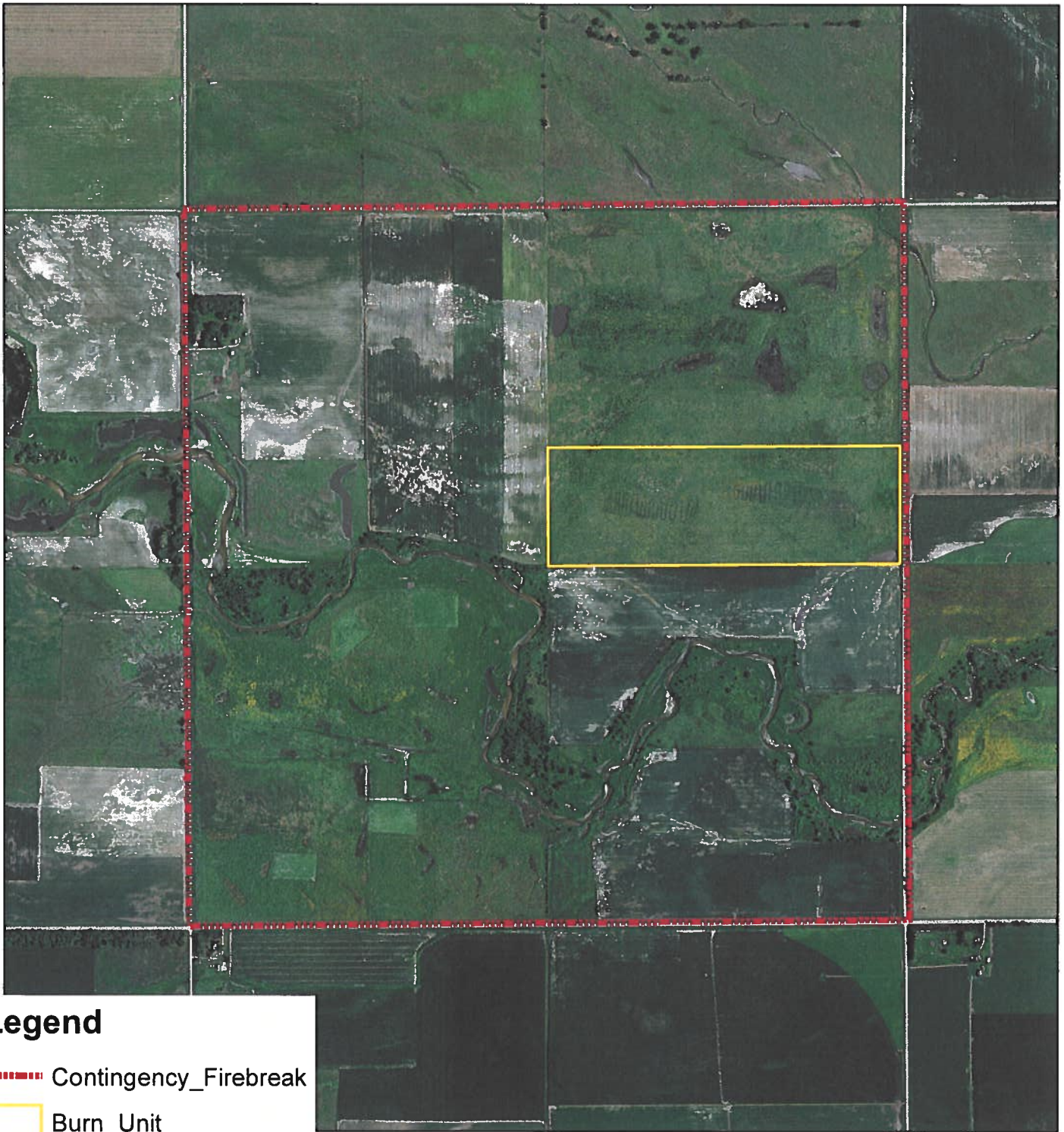
Field Office: Grand Island
Agency: USDA-NRCS
Assisted by: Amy Schaefer





Contingency

Customer(s): Cheatle Farms LLC
District: Lower Loup NRD
Legal: 28-16-4W

Field Office: Grand Island
Agency: USDA-NRCS
Assisted by: Amy Schaefer



Legend

-  Contingency_Firebreak
-  Burn_Unit

0 0.1 0.2 0.4 0.6 0.8 Miles








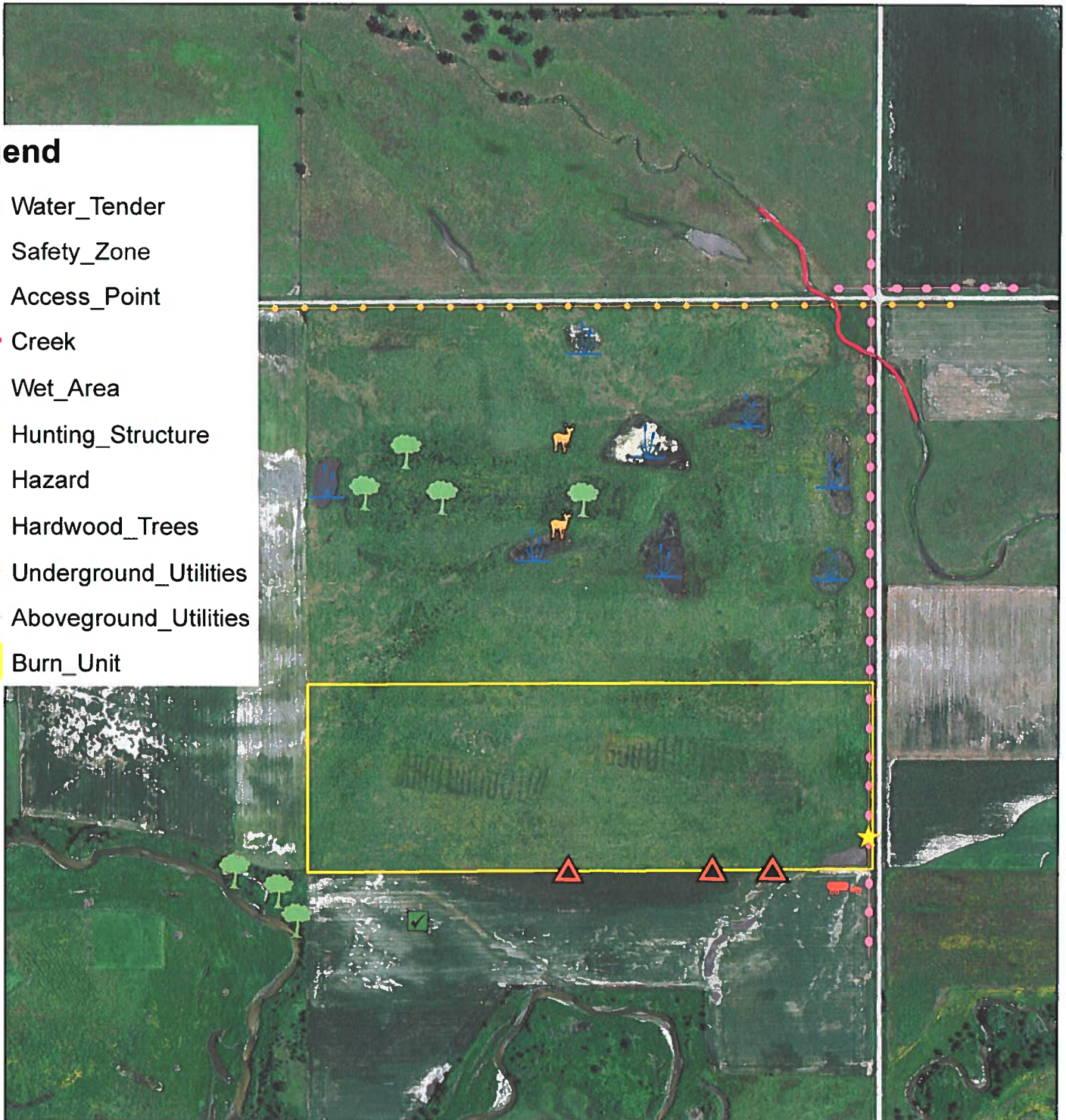
Access and Hazards

Customer(s): Cheatle Farms LLC
District: Lower Loup NRD
Legal: 28-16-4W

Field Office: Grand Island
Agency: USDA-NRCS
Assisted by: Amy Schaefer

Legend

-  Water_Tender
-  Safety_Zone
-  Access_Point
-  Creek
-  Wet_Area
-  Hunting_Structure
-  Hazard
-  Hardwood_Trees
-  Underground_Uilities
-  Aboveground_Uilities
-  Burn_Unit



0 0.05 0.1 0.2 0.3 0.4 Miles



Firebreaks

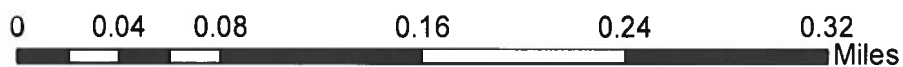
Customer(s): Cheatle Farms LLC
District: Lower Loup NRD
Legal: 28-16-4W

Field Office: Grand Island
Agency: USDA-NRCS
Assisted by: Amy Schaefer



Legend

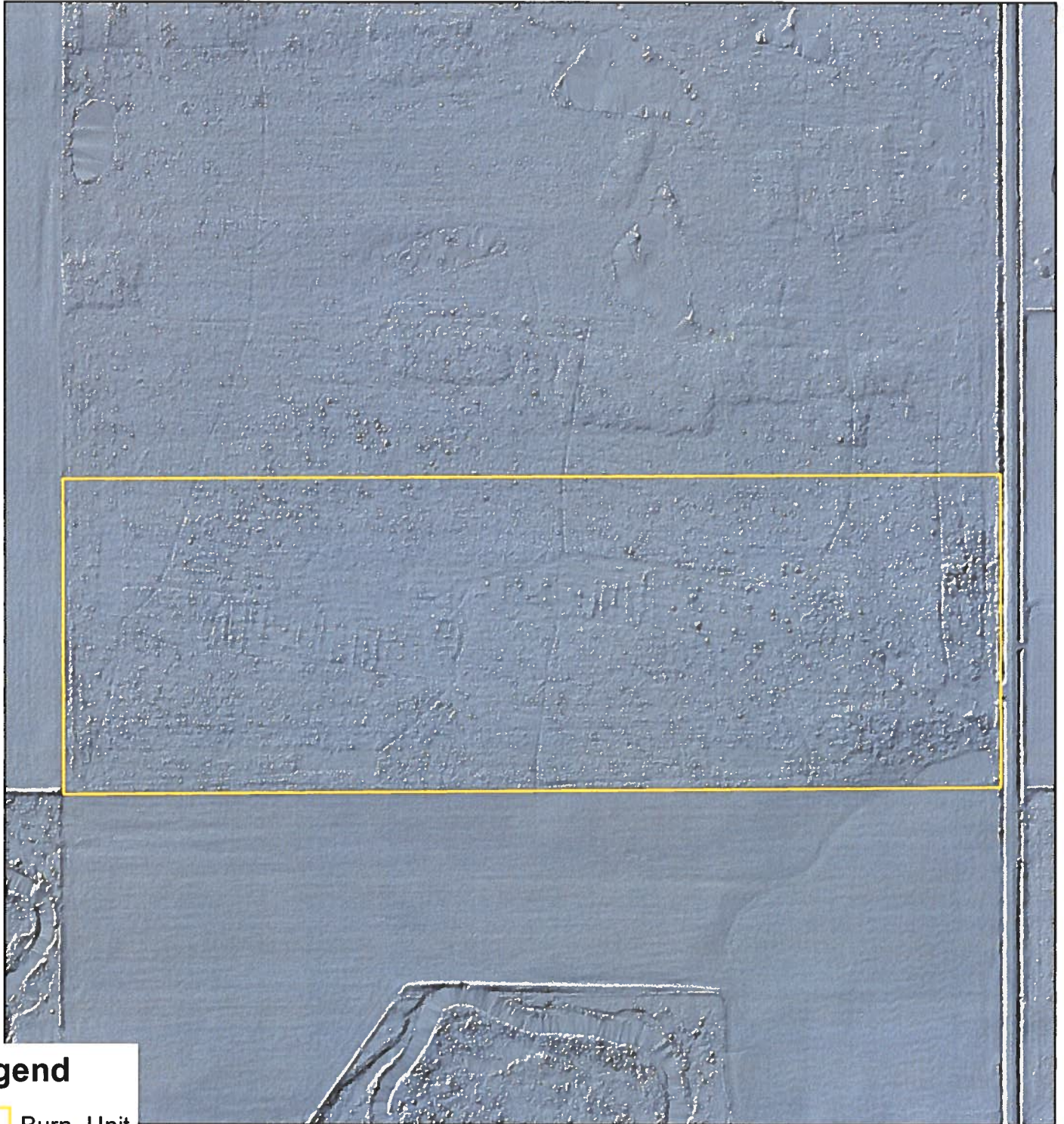
- Natural_Firebreak
- Mowed_Firebreak
- Burn_Unit



Hillshade

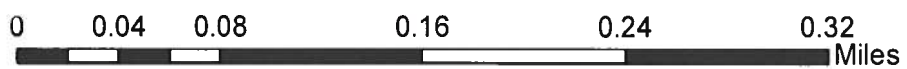
Customer(s): Cheatle Farms LLC
District: Lower Loup NRD
Legal: 28-16-4W

Field Office: Grand Island
Agency: USDA-NRCS
Assisted by: Amy Schaefer



Legend

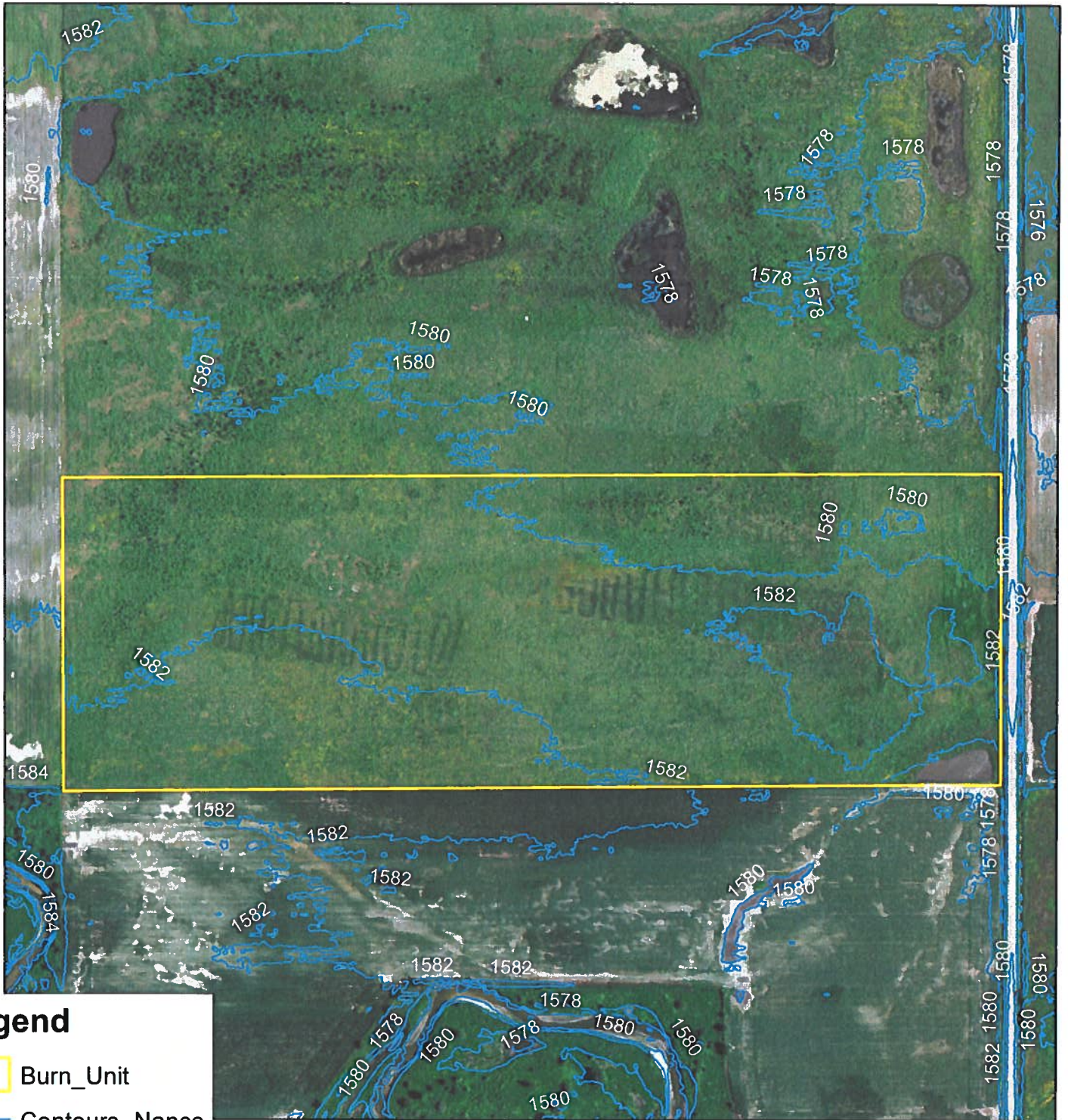
 Burn_Unit



Contours

Customer(s): Cheatle Farms LLC
District: Lower Loup NRD
Legal: 28-16-4W

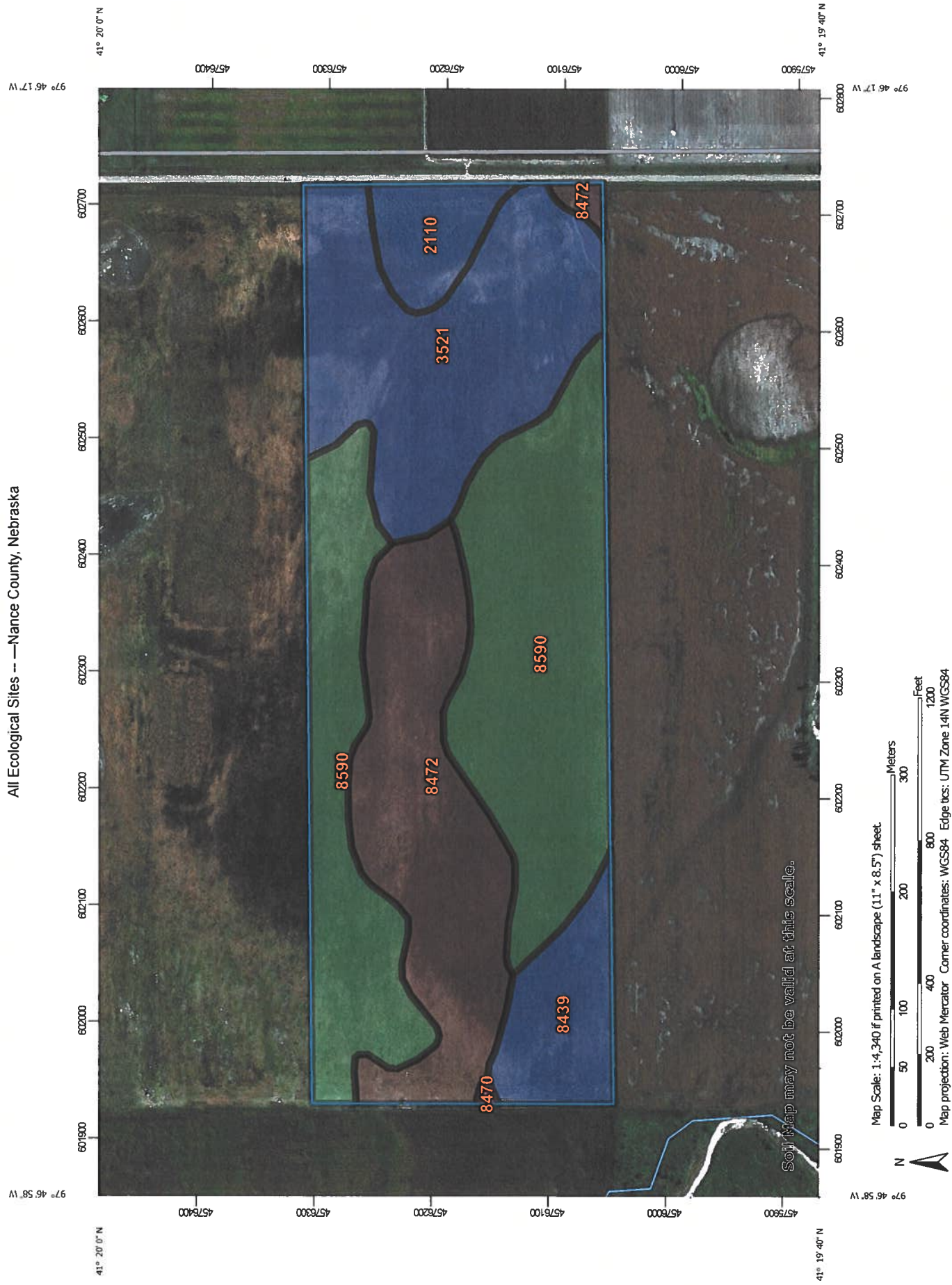
Field Office: Grand Island
Agency: USDA-NRCS
Assisted by: Amy Schaefer



0 0.04 0.08 0.16 0.24 0.32 Miles



All Ecological Sites -- Nance County, Nebraska



Soil Map may not be valid at this scale.

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Nance County, Nebraska
 Survey Area Data: Version 19, Sep 14, 2021


Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.


Date(s) aerial images were photographed: Sep 2, 2015--Mar 8, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

MAP LEGEND

- Area of Interest (AOI)
 - Area of Interest (AOI) 
- Soils
 - Soil Rating Polygons
 - R071XY024NE 
 - R102CY046NE 
 - R102CY047NE 
 - R102CY051NE 
 - Not rated or not available 
- Background
 - Aerial Photography 
- US Routes 
- Major Roads 
- Local Roads 

- Soil Rating Lines
 - R071XY024NE 
 - R102CY046NE 
 - R102CY047NE 
 - R102CY051NE 
 - Not rated or not available 

- Soil Rating Points
 - R071XY024NE 
 - R102CY046NE 
 - R102CY047NE 
 - R102CY051NE 
 - Not rated or not available 

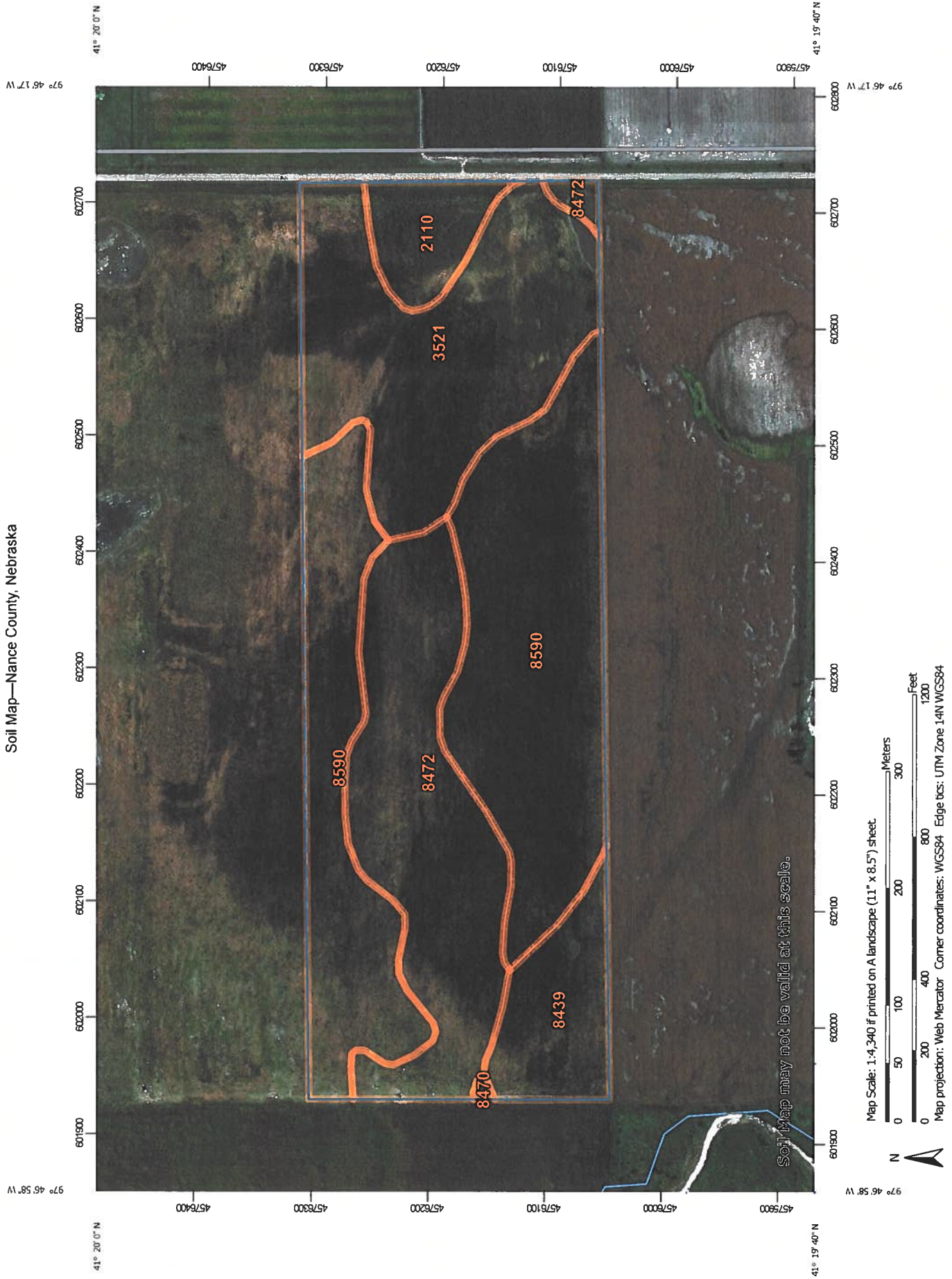
- Water Features
 - Streams and Canals 
- Transportation
 - Rails 
 - Interstate Highways 

All Ecological Sites —

| Map unit symbol | Map unit name | Component name (percent) | Ecological site | Acres in AOI | Percent of AOI |
|-----------------|---|----------------------------------|-----------------------------------|--------------|----------------|
| 2110 | Inavale loamy fine sand, 0 to 3 percent slopes, occasionally flooded | Inavale (90%) | R102CY051NE — SANDY LOWLAND | 2.2 | 4.5% |
| | | Barney (5%) | R102CY044NE — WET LAND | | |
| | | Boel (3%) | R102CY046NE — Subirrigated | | |
| | | Ord (2%) | R102CY046NE — Subirrigated | | |
| 3521 | Cass fine sandy loam, occasionally flooded | Cass, occasionally flooded (99%) | R102CY051NE — SANDY LOWLAND | 12.1 | 24.2% |
| | | Wt at 0-1 foot (1%) | R102CY045NE — WET SUBIRRIGATED | | |
| 8439 | Cass silt loam, occasionally flooded | Cass, occasionally flooded (99%) | R102CY051NE — SANDY LOWLAND | 3.6 | 7.2% |
| | | Wt at 0-1 foot (1%) | R102CY045NE — WET SUBIRRIGATED | | |
| 8470 | Gibbon silt loam, 0 to 2 percent slopes, occasionally flooded | Gibbon (90%) | R071XY024NE — Subirrigated | 0.1 | 0.1% |
| | | Wann (3%) | R102CY046NE — Subirrigated | | |
| | | Zook (3%) | R102CY049NE — CLAYEY OVERFLOW | | |
| | | Gayville (2%) | R102CY047NE — SALINE SUBIRRIGATED | | |
| | | Shell (2%) | R102CY050NE — Loamy Lowland | | |
| 8472 | Gibbon silt loam, saline, 0 to 2 percent slopes, occasionally flooded | Gibbon, saline (98%) | R102CY047NE — SALINE SUBIRRIGATED | 11.3 | 22.5% |
| | | Lawet, occasionally flooded (2%) | R102CY045NE — WET SUBIRRIGATED | | |
| 8590 | Wann silt loam, occasionally flooded | Wann, occasionally flooded (99%) | R102CY046NE — Subirrigated | 20.8 | 41.5% |
| | | Wt at 0-1 foot (1%) | R102CY045NE — WET SUBIRRIGATED | | |

| Map unit symbol | Map unit name | Component name (percent) | Ecological site | Acres in AOI | Percent of AOI |
|------------------------------------|---------------|-----------------------------|-----------------|--------------|----------------|
| Totals for Area of Interest | | | | 50.2 | 100.0% |

Soil Map—Nance County, Nebraska



Map Scale: 1:4,340 if printed on A landscape (11" x 8.5") sheet.



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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Soil Survey Area: Nance County, Nebraska
Survey Area Data: Version 19, Sep 14, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 2, 2015—Mar 8, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

MAP LEGEND

- Area of Interest (AOI)
- Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points
- Special Point Features**
 - Blowout
 - Borrow Pit
 - Clay Spot
 - Closed Depression
 - Gravel Pit
 - Gravelly Spot
 - Landfill
 - Lava Flow
 - Marsh or swamp
 - Mine or Quarry
 - Miscellaneous Water
 - Perennial Water
 - Rock Outcrop
 - Saline Spot
 - Sandy Spot
 - Severely Eroded Spot
 - Sinkhole
 - Slide or Slip
 - Sodic Spot
- Water Features**
 - Streams and Canals
- Transportation**
 - Rails
 - Interstate Highways
 - US Routes
 - Major Roads
 - Local Roads
- Background**
 - Aerial Photography
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

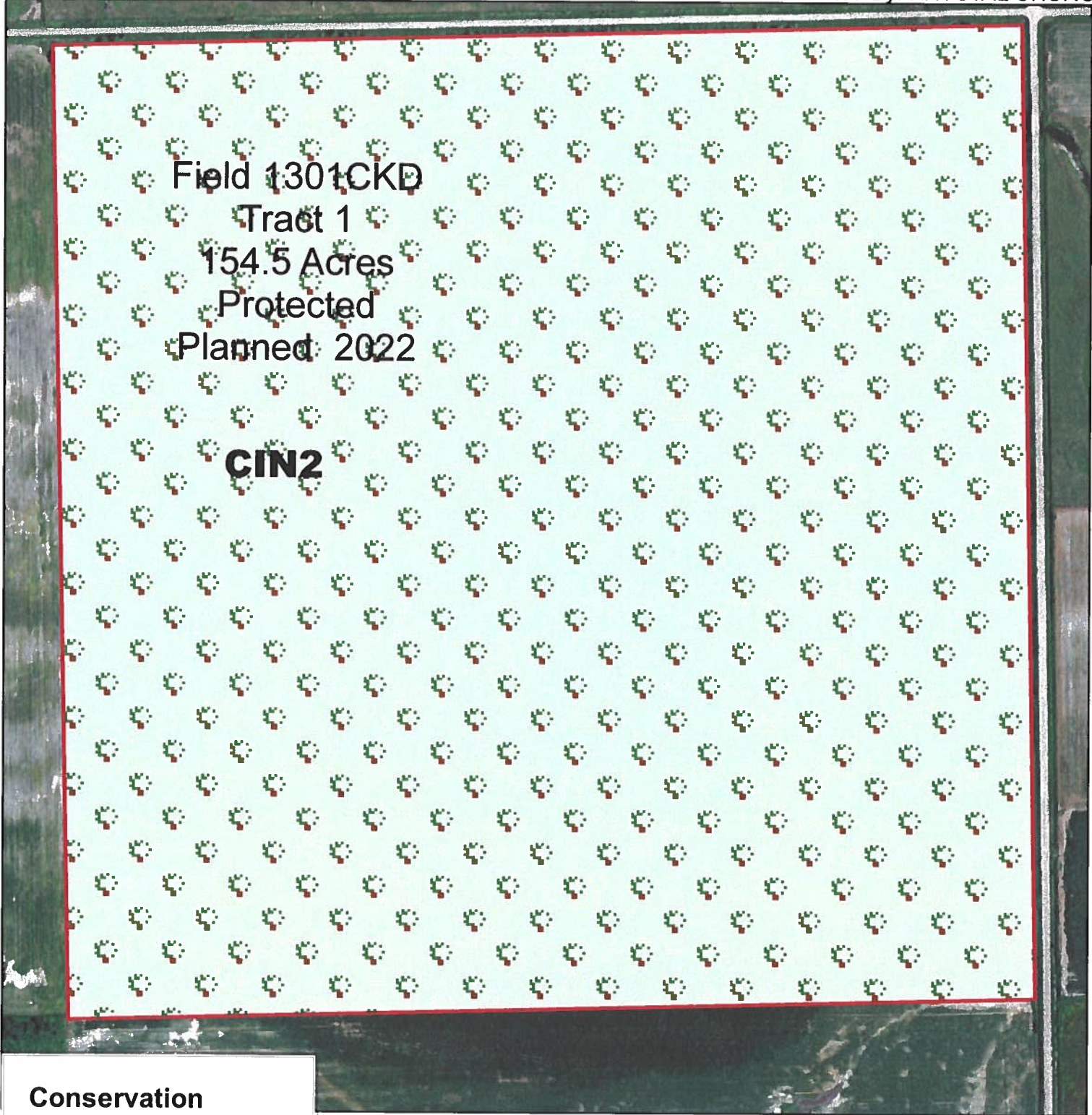
Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| 2110 | Inavale loamy fine sand, 0 to 3 percent slopes, occasionally flooded | 2.2 | 4.5% |
| 3521 | Cass fine sandy loam, occasionally flooded | 12.1 | 24.2% |
| 8439 | Cass silt loam, occasionally flooded | 3.6 | 7.2% |
| 8470 | Gibbon silt loam, 0 to 2 percent slopes, occasionally flooded | 0.1 | 0.1% |
| 8472 | Gibbon silt loam, saline, 0 to 2 percent slopes, occasionally flooded | 11.3 | 22.5% |
| 8590 | Wann silt loam, occasionally flooded | 20.8 | 41.5% |
| Totals for Area of Interest | | 50.2 | 100.0% |

Conservation Plan Map

Customer: Cheatle Farms LLC
NEST #: 6665261301CKD
Approx Acres: 154.5
Legal Description: NE1/4 28-16-4W, Nance Co

Date: 3/18/2022
Field Office: GRAND ISLAND
Agency: CPNRD
Assisted By: KRYSTAL CHURCH



Conservation Practice

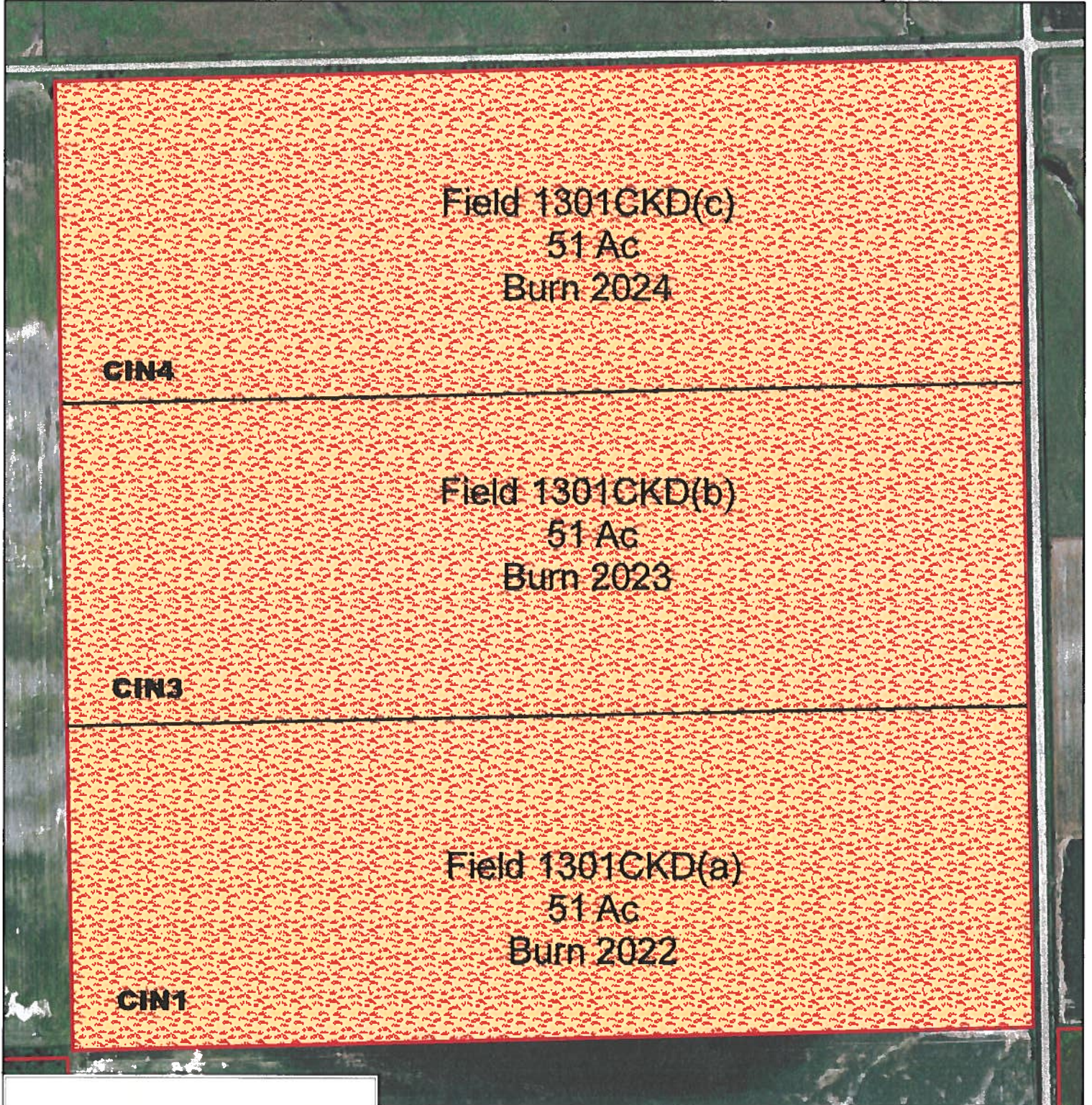
 Brush Management (314)




Conservation Plan Map

Customer: Cheatle Farms LLC
NEST #: 6665261301CKD
Approx Acres: 154.5
Legal Descriptor: NE1/4 28-16-4W, Nance Co

Date: 3/18/2022
Field Office: GRAND ISLAND
Agency: CPNRD
Assisted By: KRYSTAL CHURCH



Conservation Practice

 Prescribed Burning Practice (338)



