

Rand Area Community Wildfire Protection Plan

October 2006

Rand Area Community Wildfire Protection Plan

Introduction

Members of the Rand community, in consultation with local, state and federal agencies and other interested parties have collaboratively developed the Rand Area Community Wildfire Protection Plan (CWPP). This CWPP was created according to the guidelines of *Preparing a Community Wildfire Protection Plan, A Handbook for Wildland-Urban Interface Communities*, March 2004, Communities Committee, National Association of Counties, National Association of State Foresters, Society of American Foresters, Western Governors' Association. The handbook was designed to lead the community through a process that includes eight steps to completion of a CWPP. Several public meetings were held to guide the community through the eight steps. Debbie Alpe, Jackson County Extension Agent, Colorado State University Cooperative Extension facilitated the CWPP meetings. Technical assistance was provided by Curran Trick, Jackson County GIS Department. The *Jackson County Fire Plan* and the *Jackson County Firefighters Response Guide* were both completed in 2003. The Rand Area CWPP supplements and enhances the information presented in these county documents. All resource materials used are listed in the Appendix.

The Healthy Forest Restoration Act (HFRA) directs the federal agencies to collaborate with communities in developing hazardous fuel reduction projects, and in the prioritization of treatment areas as defined by a community's CWPP. It identifies strategies for reducing wildfire fuels while improving forest health, supporting local industry and economy, and improving fire fighting response capabilities.

Objectives of the Rand Area Community Wildfire Protection Plan

- Engage in comprehensive forest planning and prioritization.
- Provide mechanism for federal agencies to give meaningful considerations to community priorities.
- Facilitate open community debate regarding management options.
- Provide maximum flexibility for communities to determine the substance and detail of their plans.
- Merge the goals and objectives of the landowners with the needs and expectations of the community regarding fire risk reduction.
- Coordinate fire protection strategies across property boundaries.
- Coordinate the grant funding and federal program budgets to achieve the most effective results with limited funding.

Development of the Plan

The CWPP Handbook specifically outlines eight steps community members should take to complete a viable CWPP. The Rand community elected to utilize this eight step approach to guide their CWPP process. By following this facilitated approach, the community and agency partners engaged in focused discussion related to all critical CWPP topics and succeeded in developing a plan that genuinely reflects the concerns and recommendations of the Rand Area. The entire collaborative process was completed within a six month period between February and September 2006. The eight steps to completion are outlined in the following sections.

Step 1- Decision Makers Convened

The decision makers for this CWPP are listed below. These officials were notified on February 7, 2006 and invited to participate in the development of this plan.

- Local Government: Jackson County Board of County Commissioners
- North Park Fire and Rescue Chief: Jeff Benson
- Colorado State Forest Service District Forester: John Twitchell

Step 2 – Federal Agencies Involved

The representatives of the federal agencies managing land in the vicinity of the Rand Area Wildland Urban Interface are listed below. Most of these people attended a widely advertised initial community meeting inclusive of all interested landowners, businesses, and agency people in Jackson County. This meeting was held the morning of Saturday, March 18, 2006 at the North Park High School. The purpose of the meeting was to provide an overview of the CWPP process and to encourage residents of Jackson County to work with key agency representatives to initiate completion of their individual community CWPPs. Federal agency representatives initially invited and subsequently involved include the following people:

Agency	Representative	Date Invited to Participate
Routt-Medicine Bow National Forest	Ann Kiser, Parks District District Ranger	February 7, 2006
Routt-Medicine Bow National Forest	Randy Lownes, Parks District Fire Management Officer	February 7, 2006
Routt-Medicine Bow National Forest	Mark Westfahl, Parks District Forester	February 7, 2006
Routt-Medicine Bow National Forest	Carl Maass, Forester	May 16, 2006
Bureau of Land Management	Lynn Barclay, Fire Mitigation Education Specialist	February 7, 2006
Bureau of Land Management Kremmling Field Office	Bill Wyatt, Fuels Staff, Fire Archaeologist	February 7, 2006
Bureau of Land Management Kremmling Field Office	John Ruhs, Field Manager	February 7, 2006

Step 3a – State and Local Agencies Involved

The representatives of the state/local agencies that have jurisdictional responsibilities in the vicinity of the Rand Area Wildland Urban Interface area are listed below. Most of these people attended the meeting described above held the morning of Saturday, March 18, 2006 at the North Park High School.

Agency	Representative	Date Invited to Participate
Colorado State Forest Service	John Twitchell, Forester	February 7, 2006
Colorado State Forest Service	Brook Lee, Forester	February 7, 2006
CSU Cooperative Extension	Debbie Alpe, Extension Agent	February 7, 2006
Jackson County Commissioner	John Rich	February 7, 2006
Jackson County Commissioner	Naida Crowner	February 7, 2006
Jackson County Commissioner	Mike Blanton	February 7, 2006

Director, Jackson County Emergency Management	Kent Crowder, Jackson County Administrator	February 7, 2006
Jackson County GIS	Curran Trick	May 23, 2006
North Park Fire and Rescue	Jeff Benson, Fire Chief	February 7, 2006
Jackson County Sheriff	Rick Rizor	February 7, 2006

Step 3b – Interested Parties Engaged

The residents from the Rand Area WUI that took leadership roles on the core CWPP planning team are listed below. Landowners who participated in the process by attending one or more meetings, received meeting announcements, agendas, and notes, and/or communicated via telephone or e-mail are listed in the Appendix.

Rand Area CWPP Core Team Members	
Bonnie Jean Neighbors- Chair	Tina Hollingshead
Bill and Pat Anderson	JoAnn Isom
Bev Fuqua	Kerry Moran
Deneen Gillespie	Don Teem
Don and Evelyn Hollingshead	Peggy Wilcox

Step 4 –Community Base Map Established

After considering the location of the inhabited areas, the critical human infrastructure and the risk of wildfire, the Rand Area community identified a base map representing a WUI zone around their community assets. Generally, the map forms a large polygon including an area approximately 145 square miles bisected by Highway 125 between mile marker 23.5 and 42. The community of Rand is located near the center of the WUI. The WUI includes primarily federal and private lands with a few parcels of state land. Natural and man-made barriers used to define the WUI boundary include the southeastern tip of the Arapaho National Wildlife refuge traversing northwest to southeast along Owl Ridge to Calamity Pass. The southern boundary of the WUI follows east to west along the base of the Rabbit Ears Range to Arapaho Ridge then turns north to Buffalo Peak and continues northeast across BLM and private lands to MacFarlane Reservoir. The base map of the Rand Area WUI and adjacent landscapes of interest as well as a detailed maps of Rand, Howd Draw, Old Homestead, Tierney, and Jack Creek are included on the following pages. The boundaries of the WUI map include the following values at risk.

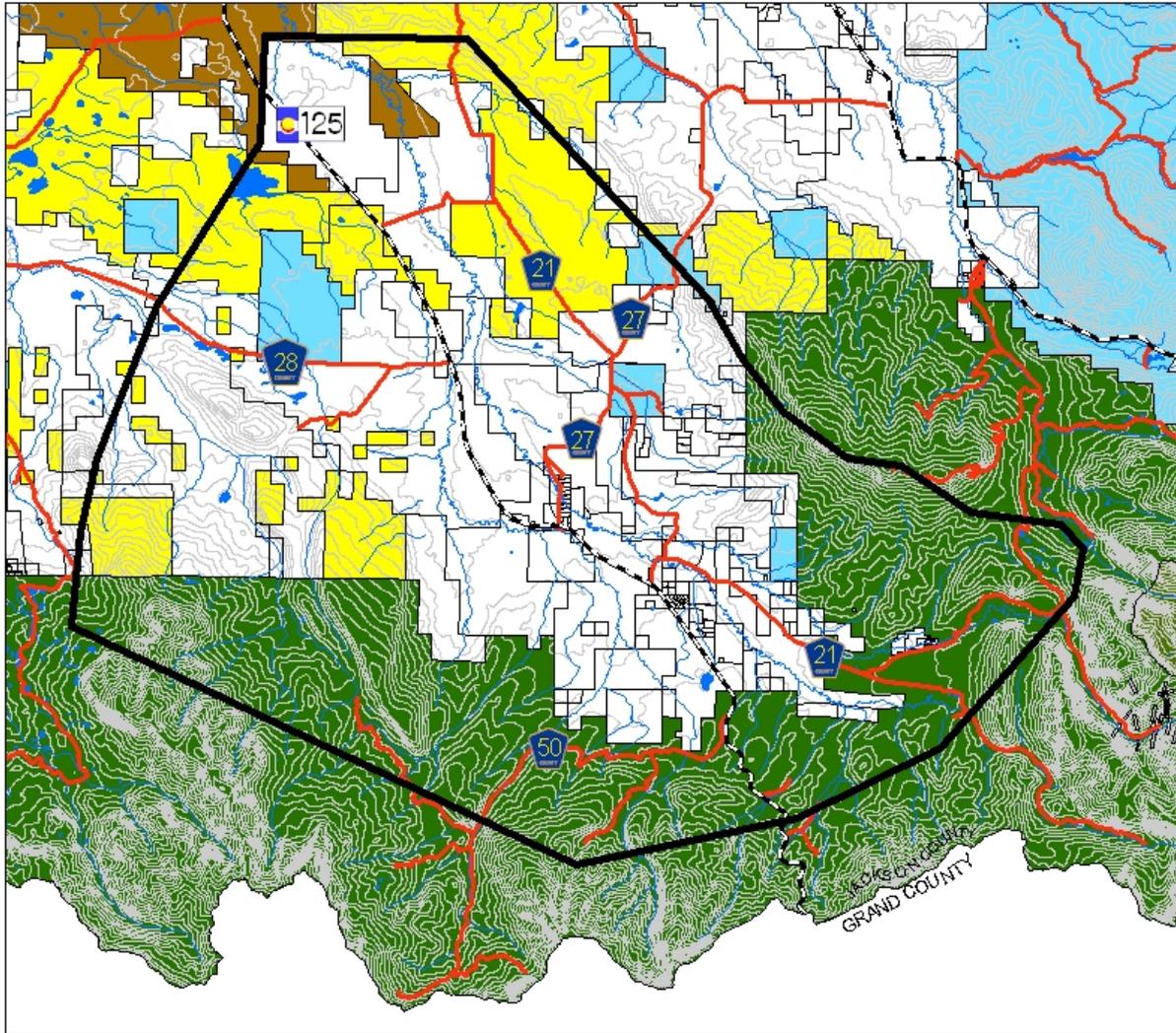
Inhabited areas at potential risk to wildland fire:

- Concentrated private properties in Rand, Howd Draw, Old Homestead, Tierney and Jack Creek.
- Dispersed private properties with/without cabins, homes and other structures.
- USFS dispersed campgrounds facilities.

Areas containing critical human infrastructure and values, escape routes, watersheds and municipal water supplies, viewsheds and power or communication structures. These include:

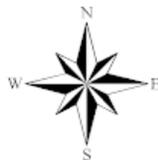
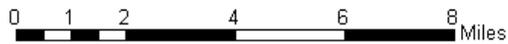
- Colorado State Highway 125 bisects the WUI from mile marker 23.5 to mile marker 42.
- Jackson County Road 21, 27, 28 and 50.
- USFS Roads
- The Illinois River drainage that is a sub-basin of the North Platte River.
- Mountain Parks Electric, Inc.(MPEI) has various electric lines situated in the WUI. Maps provided by MPEI are included in the Appendix.

Rand Vicinity Wildland Urban Interface



Legend

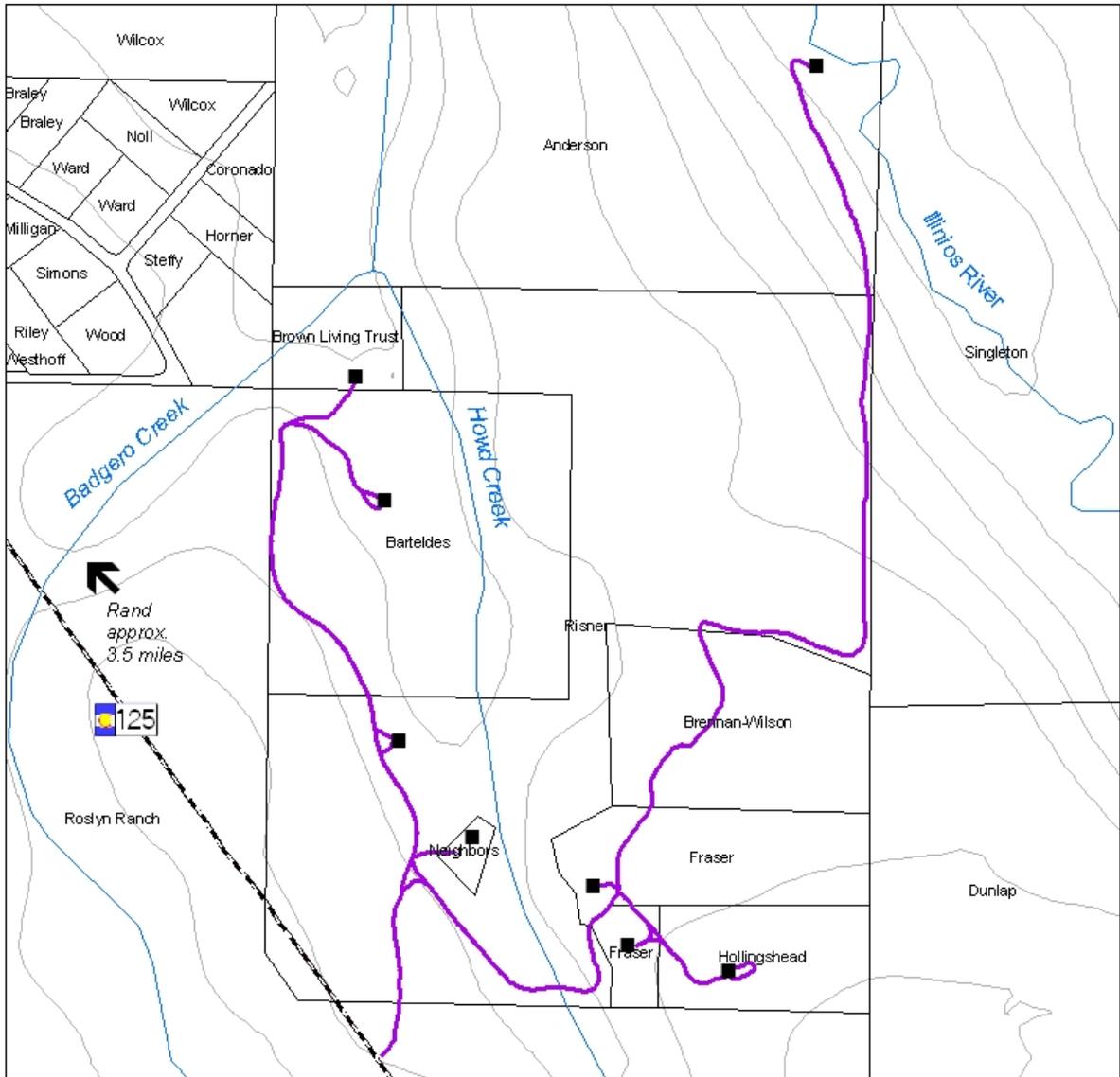
- | | | | |
|---|----------------|---|----------------|
|  | Private Lands |  | Rivers & Lakes |
|  | BLM Lands |  | State Highway |
|  | State Lands |  | County Road |
|  | Forest Service |  | 100' Contour |
|  | Refuge |  | WUI Boundary |



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Howd Draw

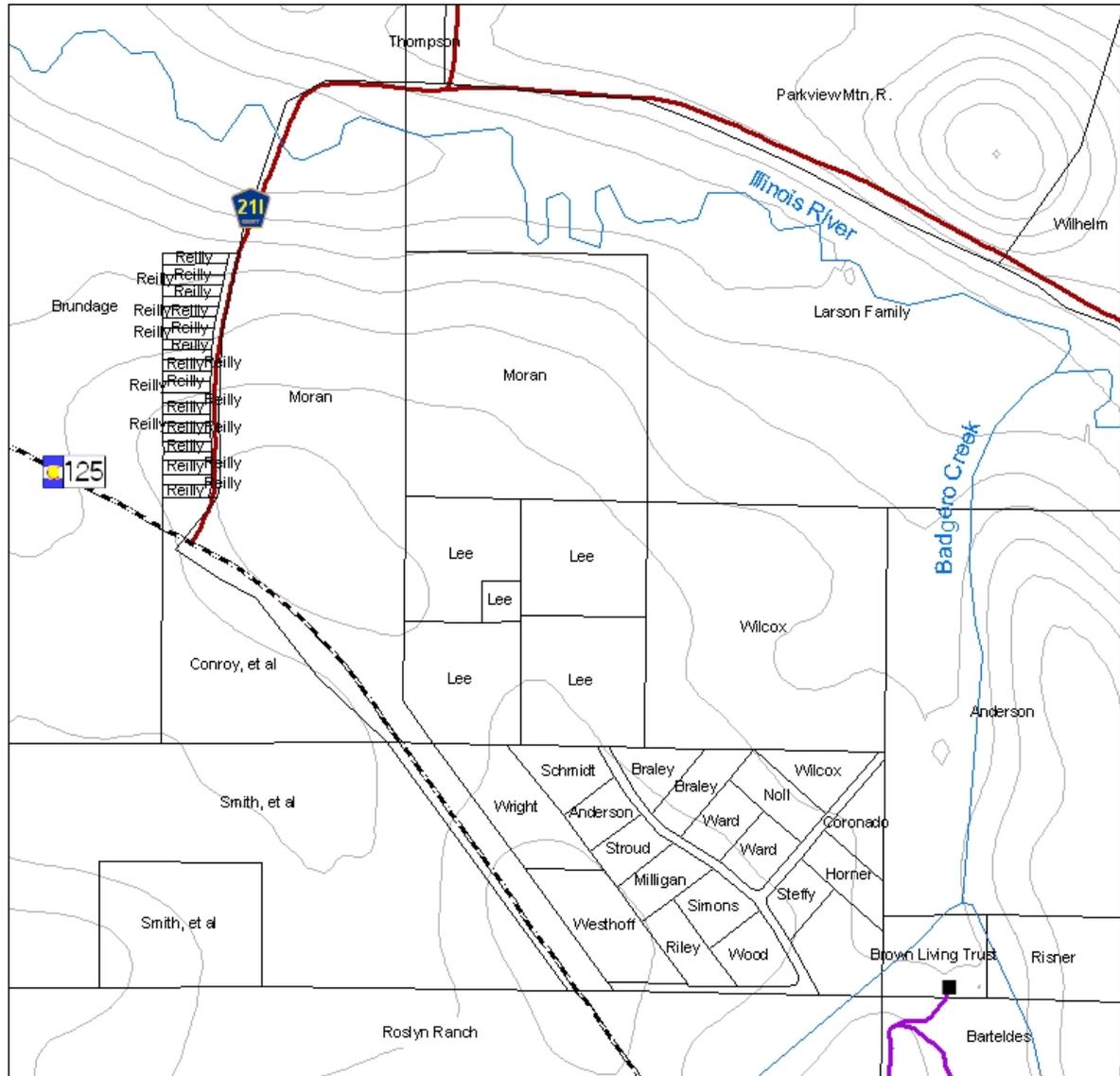


Legend

- Landowner Boundary
- Structure
- County Road
- Private Road / Driveway
- CO HWY 125
- River / Stream
- 20' Contour



Old Homestead & Tierney

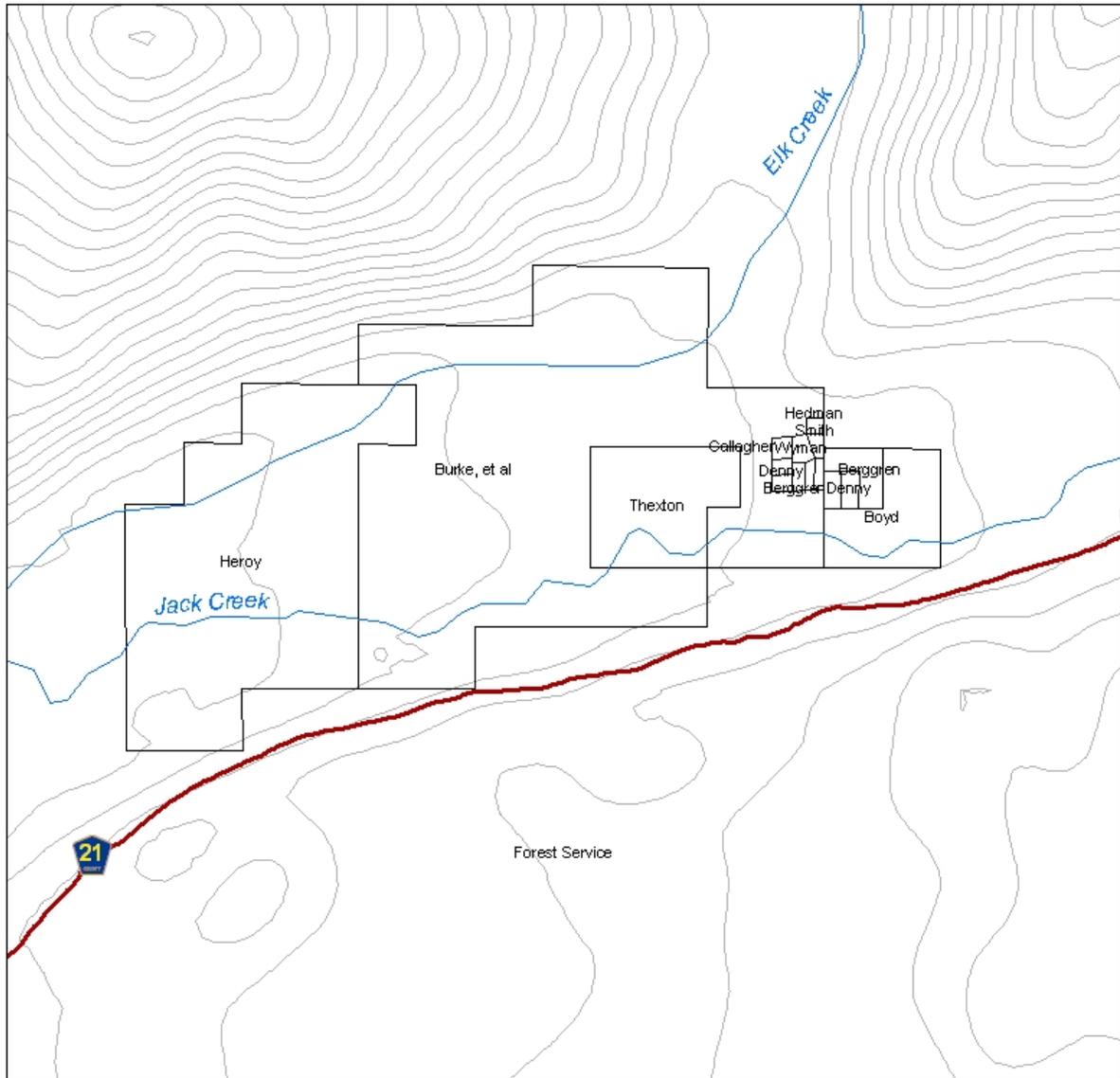


Legend

- Landowner Boundary
- Structure
- County Road
- Private Road / Driveway
- CO HWY 125
- River / Stream
- 20' Contour



Jack Creek Ranch



Legend

- Landowner Boundary
- Structure
- County Road
- Private Road / Driveway
- CO HWY 125
- River / Stream
- 20' Contour

0 380 760 1,520 2,280 3,040 Feet



Step 5 –Community Risk Assessment

Inserted in this section is the Rand Area CWPP Risk Assessment completed during two community meetings, Friday, May 19, 2006 attended by 24 residents and agency representatives and Saturday, June 3, 2006 attended by 22 residents and agency representatives (listed in the Appendix).

Community protection is the responsibility of everyone involved. CWPPs will facilitate agency decision-making and prioritization of projects. Fire can come from within or without the Rand Area WUI. To follow are some of the hazards and values at risk identified by the community.

Fuel Hazards and Risk of Wildfire Occurrence

- Beetle infestation data and on-the-ground observations by foresters indicate significant Mountain Pine and Spruce Bark Beetle activity resulting in many acres of dead and dying trees in the forests surrounding the Rand Area WUI.
- In addition, area forest health is further negatively impacted by mistletoe infestation as well as the extended drought conditions experienced during the past decade.
- Prevailing winds are from the west and southwest. The forests south and west of the Rand Area WUI known as Green Ridge are currently classified as high risk fire areas. Forests to the north and east on Owl Mountain, primarily because of prevailing winds, are considered at less risk of experiencing a wildfire that would significantly impact the Rand Area WUI.
- Hay meadows to the southwest could present a fire risk during dry periods in the spring and the fall.
- In a lodgepole forest, it is reasonable to expect that a fire will ultimately happen. It is difficult and sometimes impossible to control a crown fire. A wildland fire must be able to transition from crown cover to the ground before control can occur.
- Large scale timber management projects can make the biggest impact toward protecting the Rand Area community.
- FireWise projects completed by individuals can lend protection to individual homes and neighborhoods as well as lessen the chances of a wildfire starting from within the WUI. Many WUI residents have completed or are currently completing FireWire projects on their property. Recognizing that people cannot be forced to complete FireWise projects on their property, all Rand Area WUI landowners are encouraged to create defensible space and reduce other fire hazards on their personal property.

Homes, Businesses, and Essential Infrastructure at Risk

Homes and Businesses

- To estimate the number of dwelling units in the Rand Area WUI, meeting notices were sent to a mailing list including over 100 landowners. It is estimated that approximately 30% of households are permanent full-time residents with the remaining 70% comprised of week-end, seasonal or vacation homes.
- Businesses in the WUI include several private ranch businesses with cow/calf and hay production enterprises, the Rand Store, the Yacht Club, the Old Homestead, Buffalo Creek Guest Ranch, and Whistling Elk Guest Ranch.
- The USFS Parks District have several dispersed campgrounds within the WUI.

Roads, Driveways and Structures

- There are a few road signs in the area, primarily county and USFS roads.
- There is one major highway, Highway 125 that is paved and the remaining roads in the WUI have gravel & dirt surfaces.
- The county roads and Highway 125 support two lanes of traffic.
- Most private driveways and roads support only one lane of traffic.
- Some subdivision and USFS roads are loop roads.
- Most private driveways are dead end roads.
- Some private driveways have adequate turn around space for a fire truck to make a three-point turn.
- Road and driveway width and height requirements are generally adequate in the area
- Few addresses and resident names are posted in the Rand Area. Residents express interest in developing a uniform address posting that would assist emergency personnel in locating homes.
- Most homes are wood or wood-frame construction.
- Most homes have porches constructed of wood.
- Most homes have fire safe roofing made of metal, asphalt or fiberglass, however, there are a few wood shake roof cabins in the WUI.

Bridges, Cattle Guards, Culverts, and Gates

- All bridges, cattle guards and culverts will support emergency equipment.
- Most private bridges and roads will support emergency vehicles.
- Most to all culverts can be crossed with emergency vehicles.
- Many gates are locked.
- Few homes are visible from the county roads or Highway 125.

Utilities

- Telephone lines are above and below ground.
- Electric phones are a problem when the power goes out. It was suggested that all residences acquire one old rotary phone to use during power outages in case of emergencies.
- Reverse 911 is not yet available.
- Cell phone service is poor in the Rand area.
- MPEI has electric line above and below ground with most being above ground. MPEI has provided line maps of the Rand Area WUI (see Appendix).
- Most homes use propane, All tanks are above ground and visible.
- There are no natural gas lines in the Rand Area WUI.

Water

- All homes have individual wells as a primary water source.
- Alternative water sources that could be used for emergencies include rivers, ponds and lakes in the area. Community members specifically identified water sources existing at Whistling Elk, Roslyn Reservoir, Buffalo Ranch, Brown Ranch, Fuqua Ranch, Howd Creek, Badger O Creek, Willow Creek Ranch and Midland Ditch.
- Additional references to emergency water sources are listed in the Jackson County Fire Plan.

Other Community Values at Risk

- Jack Creek Ranch
- Jack Creek Claims
- Roslyn Ranch
- Snyder Creek Ranch
- Teller City
- Spellman Cabin
- Dunlap Cabins
- Willow Creek Ranch
- Rand School
- Post Office
- Arapahoe National Wildlife Refuge
- Vohs cabin
- Protection of the watershed.

Local Preparedness and Firefighting Capability:

- Generally, the Rand Area WUI has good firefighting and emergency response capabilities. There is the Rand Fire Station with a truck present in Rand.
- There are out of county response resources available if needed through a multi-county, multi-agency collaboration.
- Fire Chief Jeff Benson described insurance ratings noting that the area located within 7 road miles of Rand is considered an ISO class 9. Outside 7 road miles is classified as an ISO class 10.
- The fire department is available to help residents with property inspections and to make recommendations regarding developing fire safe properties.
- In the event of an evacuation, a variety of agencies will be involved, and alerts and evacuation instructions may come from door-to-door visits or by phone.
- Rand may wish to consider a “check off” point, where evacuees headed to Walden or out of the County may inform the check off volunteer that they have left and are out of the danger area.

Step 6 – Community Fire Hazard Reduction Priorities and Recommendations

Inserted in this section are the Rand Area CWPP Priorities and Recommendations completed during a meeting Saturday, July 8, 2006 attended by 16 residents and agency representatives (listed in Appendix).

Fuel Treatment Projects and Reducing Structural Ignitability

High Priorities

- Proceed as soon as possible with on the ground progress on extensive USFS timber sales on the Green Ridge analysis area within the WUI boundary. Recent USFS updates indicate that Whiskey, Willow and Spring sales have been sold. The Haney parcel will

be sold in 2006. Snyder and Grassy Creek sales will be sold in 2007, and the Green Ridge sale on the north end of the analysis area will be sold in 2008.

- Create a ¼ mile fire break buffer around the circumference of the Rand Area WUI.
- Seek sources of emergency funding to facilitate fuel hazard reduction within and surrounding the WUI.
- Request proper road right of way hazardous fuel reduction be accomplished by Colorado Department of Transportation and clearing under power lines be accomplished by Mountain Parks Electric. There have been problems regarding downed timber blocking driveways.
- Request ongoing improved communication regarding status of timber sales (i.e. that provided by agency representatives during the May 19 CWPP organizational meeting.)
- Private landowners in the Rand Area WUI are encouraged to create defensible space and reduce other fire hazards on their personal property. This includes improving ingress and egress routes for emergency fire services as outlined in the Jackson County Fire Plan. Provide educational programs on this topic.
- Residents need information and education regarding proper handling of post harvest slash.
- Designate several properly situated central slash piling sites (similar to that in Gould) to temporarily handle slash produced as a result of private land defensible space projects. Work with agencies and private landowners to identify appropriate locations where slash piles can be handled properly.
- Standardize and prominently display address nomenclature for all homes and structures in the Rand Area WUI.
- Develop a contact list of timber removal contractors for landowners.
- Explore ways to secure assistance for senior citizens to accomplish fuel hazard reduction and defensible space projects that require rigorous physical labor.
- Explore feasibility of utilizing prison labor as a low cost strategy to accomplish fuel reduction work.

Emergency Preparedness

High Priorities

- Address need for standardized, prominently displayed address nomenclature for all homes and structures in the Rand Area WUI.
- Request improved mapping to include more roads and small communities within the Rand WUI i.e. Howd Draw area.
- Identify community members to serve as key communicators in the event of a fire and to help with communication issues in the event of an evacuation. Bev Fuqua is willing to be one of the community members to serve in this role.
- Rand community members will discuss development of emergency preparedness/evacuation plans.
- Encourage residents to put together individual evacuation plans including addressing any existing pet and livestock issues.
- Accelerate USFS environmental review process to secure installation of a proposed cell phone tower in the Rand area.

- Request implementation of a reverse 911 system in Jackson County.
- Improve community communication. Explore possibility of having a community bulletin board placed at the Rand Post Office.
- Improve signage in small communities within the WUI.

The table below outlines Rand Area WUI projects, responsible parties and level of priority for implementation.

Project or Activity	Responsible Party	Priority Level
Implement Green Ridge Timber Sale	USFS	High
Create ¼ mile fuel break around Rand Area WUI	USFS and BLM	High
Secure emergency funds for fuel hazard reduction projects	USFS, BLM, CSFS, Jackson County, NP Fire Rescue	High
Provide timber sale progress reports to Rand community	USFS and BLM	High
Complete Fuel hazard reduction on Hwy 125 right of way	CO Dept of Transportation	High
Remove hazardous trees near power lines	MPEI	High
Create defensible space projects on private property	Private landowners, NP Fire Rescue	High
Provide education/information on post harvest slash handling	CSFS	High
Designate central slash piling sites	USFS, CSFS, BLM and/or landowners	High
Post standardized address signs	Private landowners, Jackson County	High
Create timber removal contractor contact list	CSFS	High
Explore potential defensible space assistance for senior citizens	CSFS, USFS, BLM Jackson County, NP Fire Rescue and landowners	High
Update WUI maps	Jackson County, CSFS, USFS, BLM	High
Develop Rand Area individual and community evacuation plans	Landowners, NP Fire and Rescue CSFS, Jackson County,	
Improve cell phone service in Rand Area	USFS, Jackson County and private cell phone companies	High
Implement reverse 911 in Rand Area	CenturyTel and Jackson County	High
Create Rand Community bulletin board	Landowners and US Postal Service	High

Step 7 – Action Plan, Implementation and Assessment Strategy

- The Rand Area community recommends all above stated priorities be considered for projects to accomplish in this WUI as soon as possible. All projects listed are considered valuable and important to the residents of this WUI. Private residents, Jackson County, North Park Fire and Rescue, Colorado State Forest Service, the Bureau of Land Management, and the Routt-Medicine Bow National Forest will be responsible for initiating projects based on land ownership and/or jurisdiction.
- The community recognizes that all private individuals, Jackson County, and partnering agencies experience budget constraints. However, the projects listed in this CWPP are considered critical and important in the effort to protect life and property in the Rand Area and therefore deserve immediate attention.
- The Rand Area community considers all above recommendations high priorities and recommends that projects listed above be completed immediately in 2006-2007 or as soon as possible.
- The Rand Area community will review and assess progress on recommended projects and update their CWPP during an annual summer community meeting. All partnering agencies are strongly encouraged to participate by providing updates during this annual meeting.
- If there is staff to do so, request was made to create a countywide CWPP update newsletter to provide agency updates as well as updates from individual CWPPs.

Step 8 – Finalizing the Community Wildfire Protection Plan

The Rand Area Community Wildfire Protection Plan:

- Was collaboratively developed. Interested parties and federal land management agencies managing land in the vicinity of Rand have been invited to participate and provide input to the process by mail, e-mail, telephone, and face to face during CWPP meetings.
- Identified and prioritized areas for hazardous fuel reduction treatments and recommends the types and methods of treatment that will protect the Rand Area.
- Recommends measures to reduce the ignitability of structures throughout the area addressed by the plan.

Signatures

The following mutually agree with the contents of this Rand Area Community Wildfire Protection Plan: **Signatures are on file at the Colorado State Forest Service, Steamboat Springs District Office, PO Box 773657, 1475 Pine Grove Road, Ste. 201A, Steamboat Springs, CO, 80477-3657, (970) 879-0475**

Jackson County Board of County Commissioners

Naida L. Crowner _____ Date_____
 Signature

Michael A. Blanton _____ Date_____
 Signature

John C. Rich _____ Date_____
 Signature

Fire Chief, North Park Fire and Rescue

Jeff Benson _____ Date_____
 Signature

District Forester, Colorado State Forest Service

John Twitchell _____ Date_____
 Signature

Jackson County Administrator/Director of Emergency Management for Jackson County

Kent Crowder _____ Date_____
 Signature

Jackson County Sheriff

Rick Rizor _____ Date_____
 Signature

District Ranger, Parks District, Routt-Medicine Bow National Forest

Signature

Date _____

Field Manager, Kremmling Field Office, Bureau of Land Management

John F. Ruhs

Signature

Date _____

Appendix

Resource Materials Used

- *Healthy Forest Restoration Act of 2003*
- *Preparing a Community Wildfire Protection Plan, A Handbook for Wildland-Urban Interface Communities*, March 2004; Communities Committee, National Association of Counties, National Association of State Foresters, Society of American Foresters, Western Governors' Association
- *Community Wildfire Protection Plans-Guidelines for Implementation*, Colorado State Forest Service, August 2005
- *Community Fire Planning Workbook*, State of Utah, Department of Natural Resources, Division of Forestry, Fire and State Lands.
- California Fire Alliance website CWPP template, www.cafirealliance.org.
- *Leaders Guide Supplement*, International Association of Fire Chiefs
- *Jackson County Fire Plan, 2003*
- *Jackson County Firefighters Response Guide, 2003*

**Rand Area CWPP Organizational Meeting
May 19, 2006; Rand Fire Station
Participant List**

Listed in order of sign up sheet:

1. Paul Vohs
2. John Rich
3. Dirk Ramsey
4. Bill and Pat Anderson
5. Peg Wilcox
6. Carey Coronado
7. Rick Barteldes
8. Dan and JoAnn Isom
9. Don Teem
10. Bill Simons
11. Verl and Ann Brown
12. Janice and Andy Anderson
13. Frank Risner
14. Bill Wyatt
15. Don and Evelyn Hollingshead
16. Tina Hollingshead
17. Deneen Gillespie
18. Ted Greene
19. David Greene
20. Michelle and Rick Wilson
21. Mark Westfahl
22. Jeff Benson
23. Bonnie Neighbors
24. Deb Alpe

**Rand Area CWPP Risk Assessment
June 3, 2006; Rand Fire Station
Participant List**

Listed in order of sign up sheet:

1. Rick Barteldes
2. JoAnn Isom
3. Janice and Andy Anderson
4. Karen Westhoff
5. Chad and Brenda Brown
6. Tina Hollingshead
7. Card Smith
8. Patty Coronado
9. Margaret Wilcox
10. Bill and Evelyn Gebhardt
11. David Wilhelm
12. Don and Evelyn Hollingshead
13. Don Teem
14. Bill and Pat Anderson
15. Kerry Moran
16. Bob Burr
17. Bev Fuqua
18. Anne Kiser
19. Jeff Benson
20. Bonnie Neighbors
21. Deb Alpe
22. Brook Lee

**Rand Area CWPP Priorities and Recommendations
July 8, 2006; Rand Fire Station
Participant List**

Listed in order of sign up sheet:

1. David Dunlap
2. Dawn Grandbois
3. Margaret Wilcox
4. Frank and Ruth Risner
5. JoAnn Isom
6. George and Katherine Braley
7. Tina Hollingshead
8. Dave Wooldridge
9. Don and Evelyn Hollingshead
10. Bev Fuqua
11. Lou Fohn
12. Kerry Moran
13. Bonnie Neighbors
14. Brook Lee
15. Jeff Benson
16. Deb Alpe

**Rand Area CWPP Draft Review
September 23, 2006; Rand Fire Station
Participant List**

Listed in order of sign up sheet:

1. Bonnie Neighbors
2. Don Teem
3. Bev Fuqua
4. Marvin Fuqua
5. Deneen Gillespie
6. Tina Hollingshead
7. Don and Evelyn Hollingshead
8. Scott Gillespie
9. Bruce Brundage
10. Tom Hart
11. Jeff Benson
12. Deb Alpe

**Rand Area CWPP
Mountain Parks Electric, Inc.
Electric Line Maps**



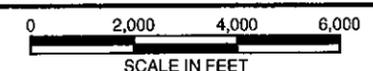
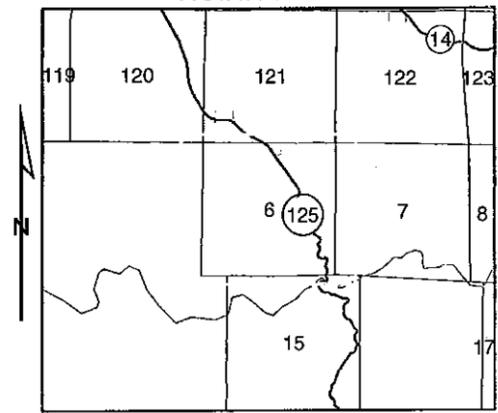
**MOUNTAIN PARKS
ELECTRIC, INC.**
Your Touchstone Energy Partner

DRAFTED BY: MLF DIR DIST: 3
DATE: 01-04 APP'D BY: LAS
OF METERS: 2824 CO MAP:

Legend

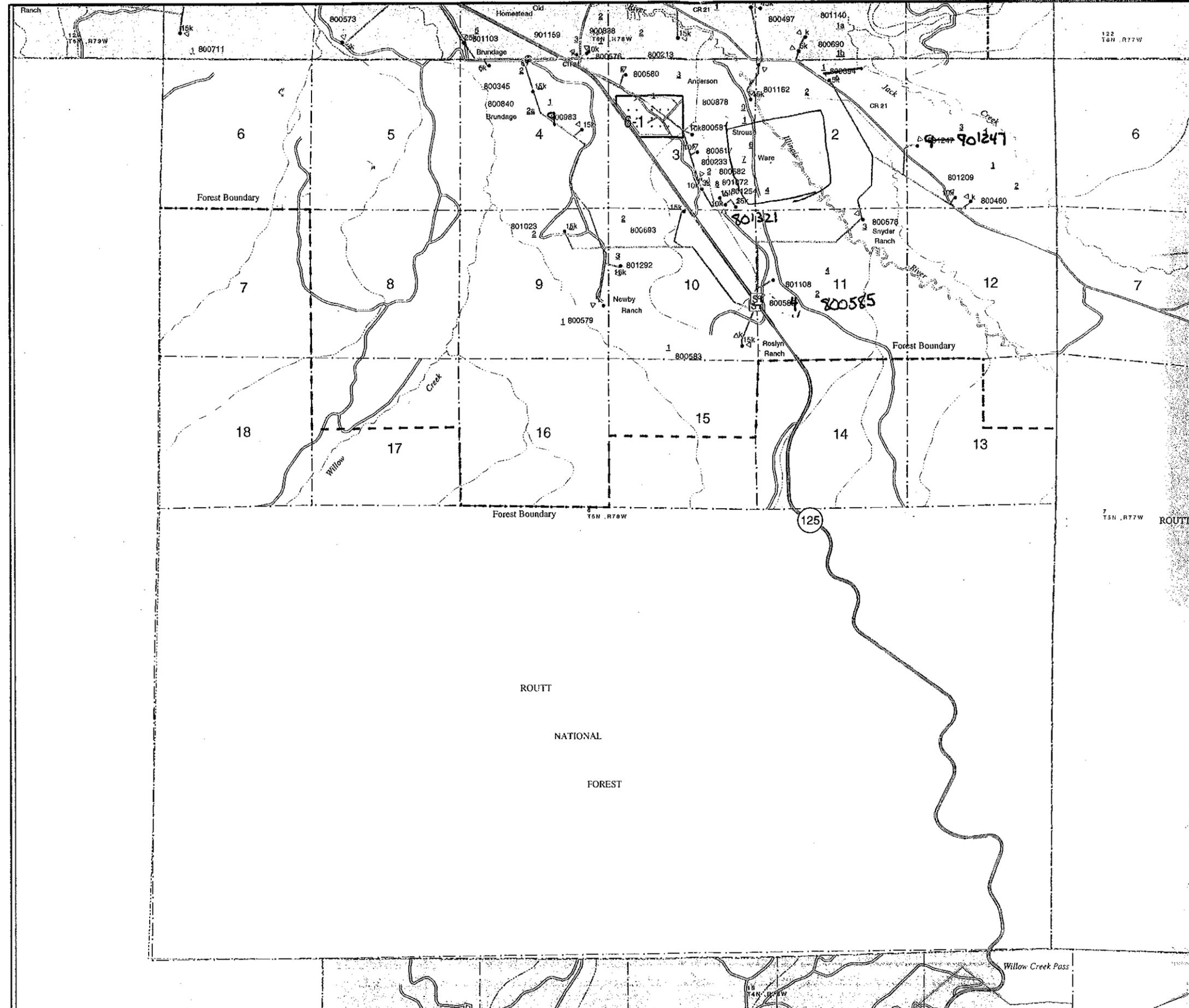
- 12967
- Meter
- Pole
- ◄ Riser
- ⊞ Capacitor
- ⊞ Fuse
- ⊞ RE Recloser-Elec
- ⊞ RH Recloser-Hyd
- ⊞ SE Sectizr-Elec
- ⊞ SH Sectizr-Hyd
- ⊞ Switch
- ⊞ GO GOAB Switch
- ▽ 1ph OH Transformer
- ⊞ 1phs UG Transformer
- ▼ 3phs OH Transformer
- ▲ 2-3phs UG Transformer
- Vault
- ⊞ 1 Phs Sector
- ⊞ 3 Phs Sector
- ⊞ SG SwitchGear
- ⊞ VR Voltage Regulator
- () Normal Open
- ⊕ Fault Indicator
- Unknown Phase
- - - A phs UG Line
- - - B phs UG Line
- - - C phs UG Line
- - - V phs UG Line
- - - 3 phs UG Line
- A phs OH Line
- B phs OH Line
- C phs OH Line
- V phs OH Line
- 3 phsE OH Line
- Transmission Line

VICINITY MAP



TOWNSHIP MAP

STATE & COUNTY	TOWNSHIP	RANGE	DWG NUMBER
COLORADO	T5N	R78W	6
JACKSON			

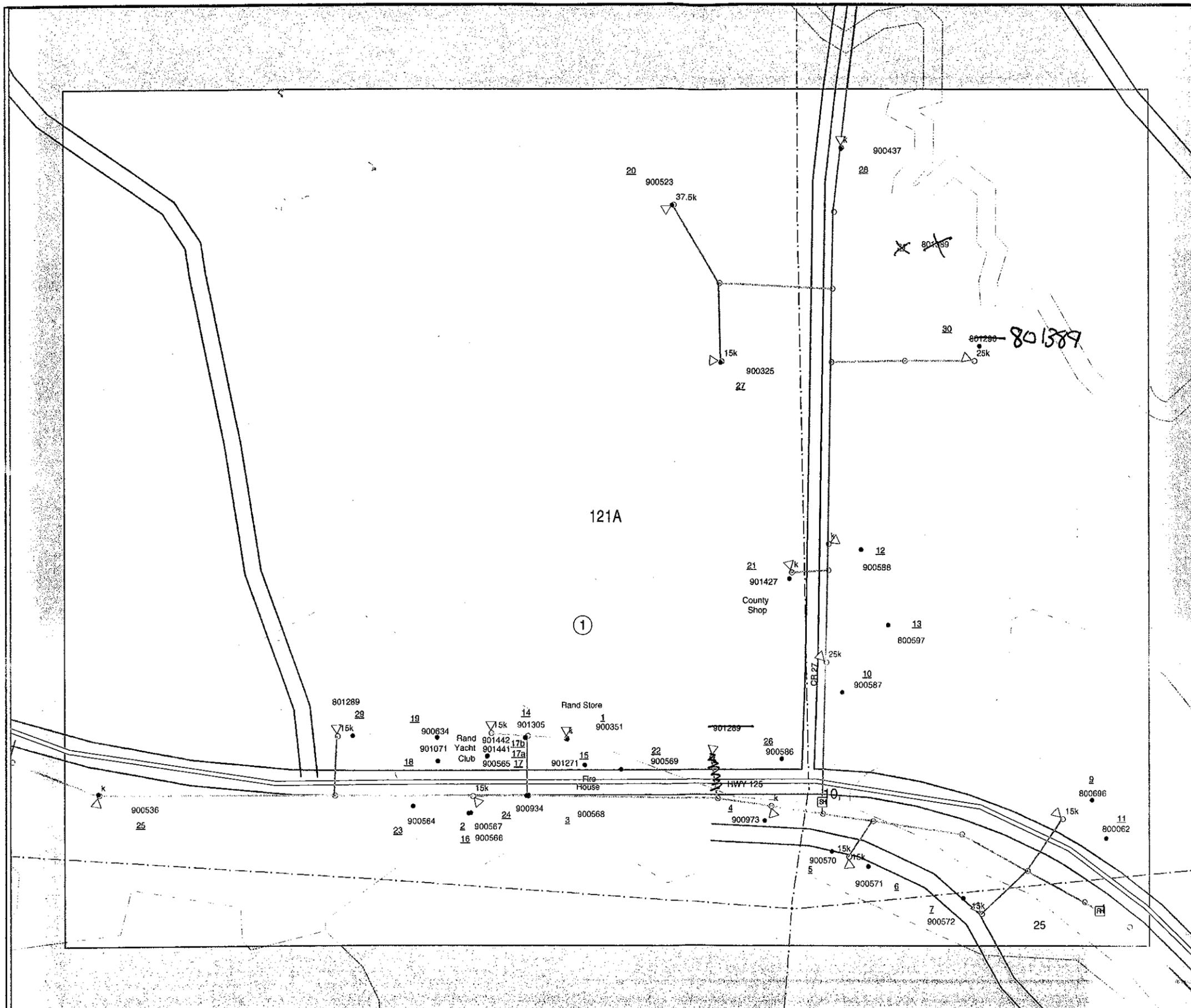




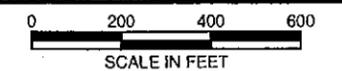
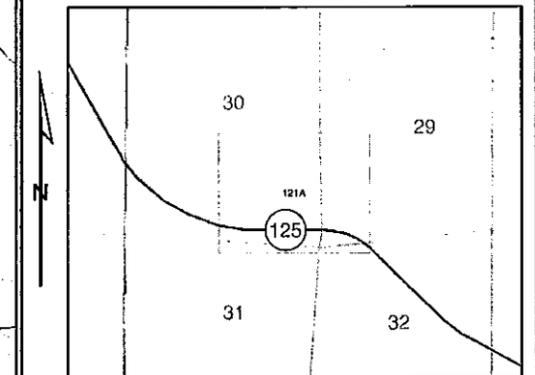
DRAFTED BY: NLF	DIR DIST: 3
DATE: 01-04	APP'D BY: LAS
# OF METERS: 37	CO MAP:

Legend

12967	● Meter	— Unknown Phase
	○ Pole	- - - A phs UG Line
	◀ Riser	- - - B phs UG Line
[C] Capacitor		- - - C phs UG Line
[F] Fuse		- - - V phs UG Line
[RE] Recloser-Elec		- - - 3 phs UG Line
[RH] Recloser-Hyd		— A phs OH Line
[SE] Sectlcr-Elec		— B phs OH Line
[SH] Sectlcr-Hyd		- - - C phs OH Line
⊙ Switch		— V phs OH Line
[GO] GOAB Switch		— 3 phsE OH Line
▽ 1ph OH Transformer		→ Transmission Line
△ 1phs UG Transformer		
▼ 3phs OH Transformer		
▲ 2-3phs UG Transformer		
□ Vault		
▣ 1 Phs Sector		
▤ 3 Phs Sector		
[SG] SwitchGear		
[VR] Voltage Regulator		
() Normal Open		
⊕ Fault Indicator		



VICINITY MAP



SCALE IN FEET
Rand Subdivision

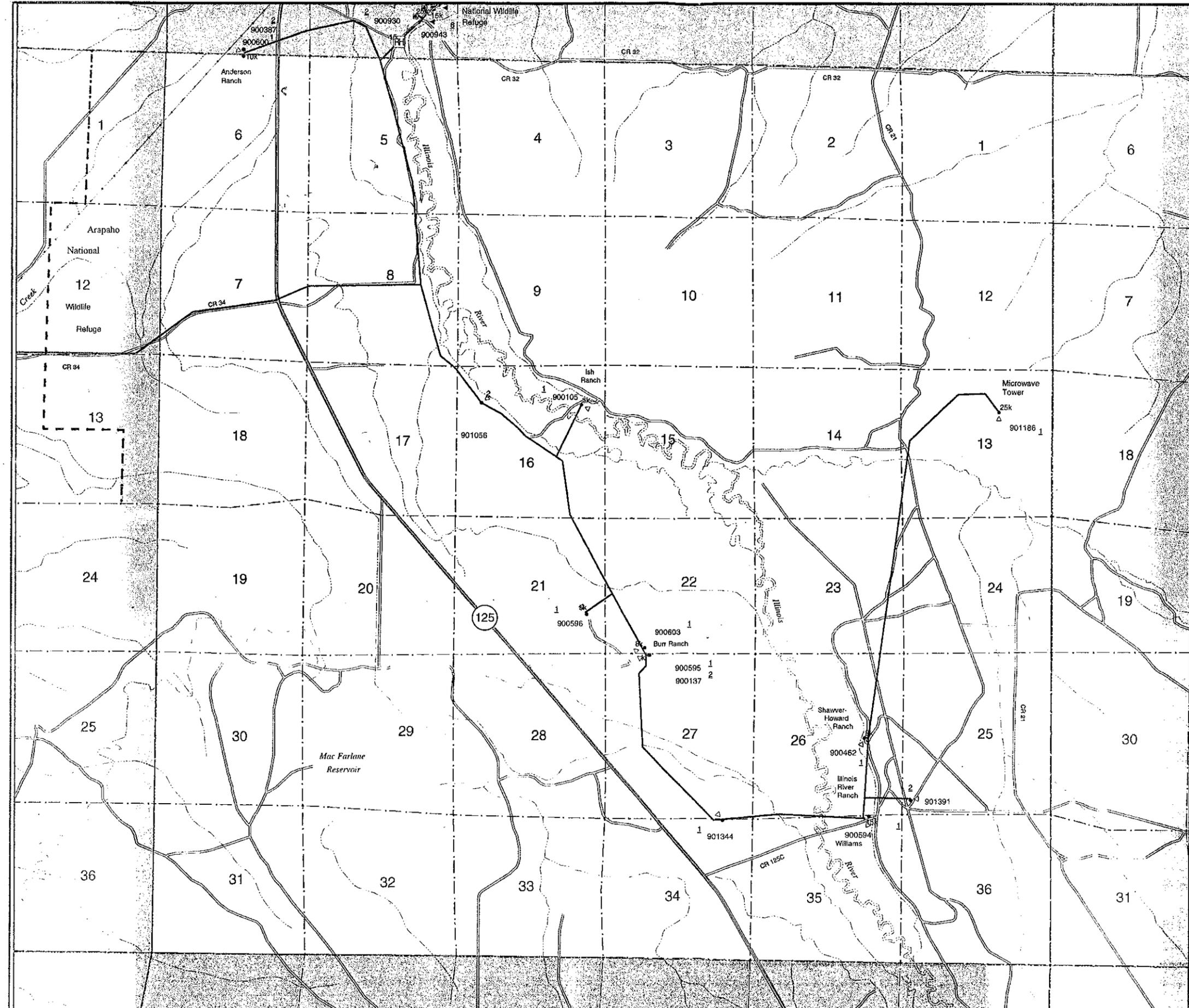
STATE & COUNTY	TOWN/RANGE/SEC	DWG NUMBER
COLORADO JACKSON	T6N R78W Sec 29, 30	121A



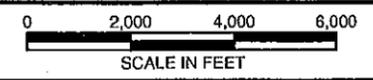
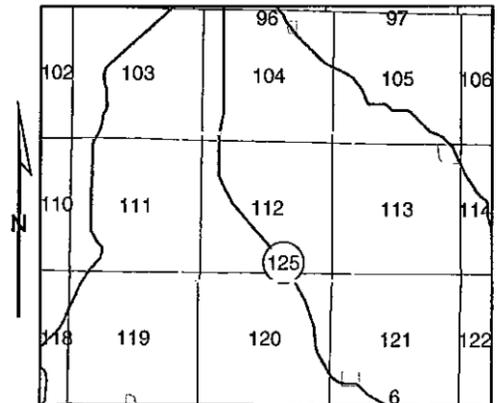
DRAFTED BY: NLF DIR DIST: 3
 DATE: 03-04 APP'D BY: LAS
 # OF METERS: 77 CO MAP:

Legend

- 12967
- Meter
- Pole
- ▲ Riser
- ⊞ Capacitor
- ⊞ Fuse
- ⊞ RE Recloser-Elec
- ⊞ RH Recloser-Hyd
- ⊞ SE Sectlizr-Elec
- ⊞ SH Sectlizr-Hyd
- ⊞ Switch
- ⊞ GO GOAB Switch
- ▽ 1ph OH Transformer
- △ 1phs UG Transformer
- ▼ 3phs OH Transformer
- ▲ 2-3phs UG Transformer
- Vault
- ▣ 1 Phs Sector
- ▤ 3 Phs Sector
- ⊞ SG SwitchGear
- ⊞ VR Voltage Regulator
- () Normal Open
- ⊕ Fault Indicator
- Unknown Phase
- - - A phs UG Line
- - - B phs UG Line
- - - C phs UG Line
- - - V phs UG Line
- - - 3 phs UG Line
- A phs OH Line
- B phs OH Line
- C phs OH Line
- V phs OH Line
- 3 phsE OH Line
- Transmission Line



VICINITY MAP



TOWNSHIP MAP

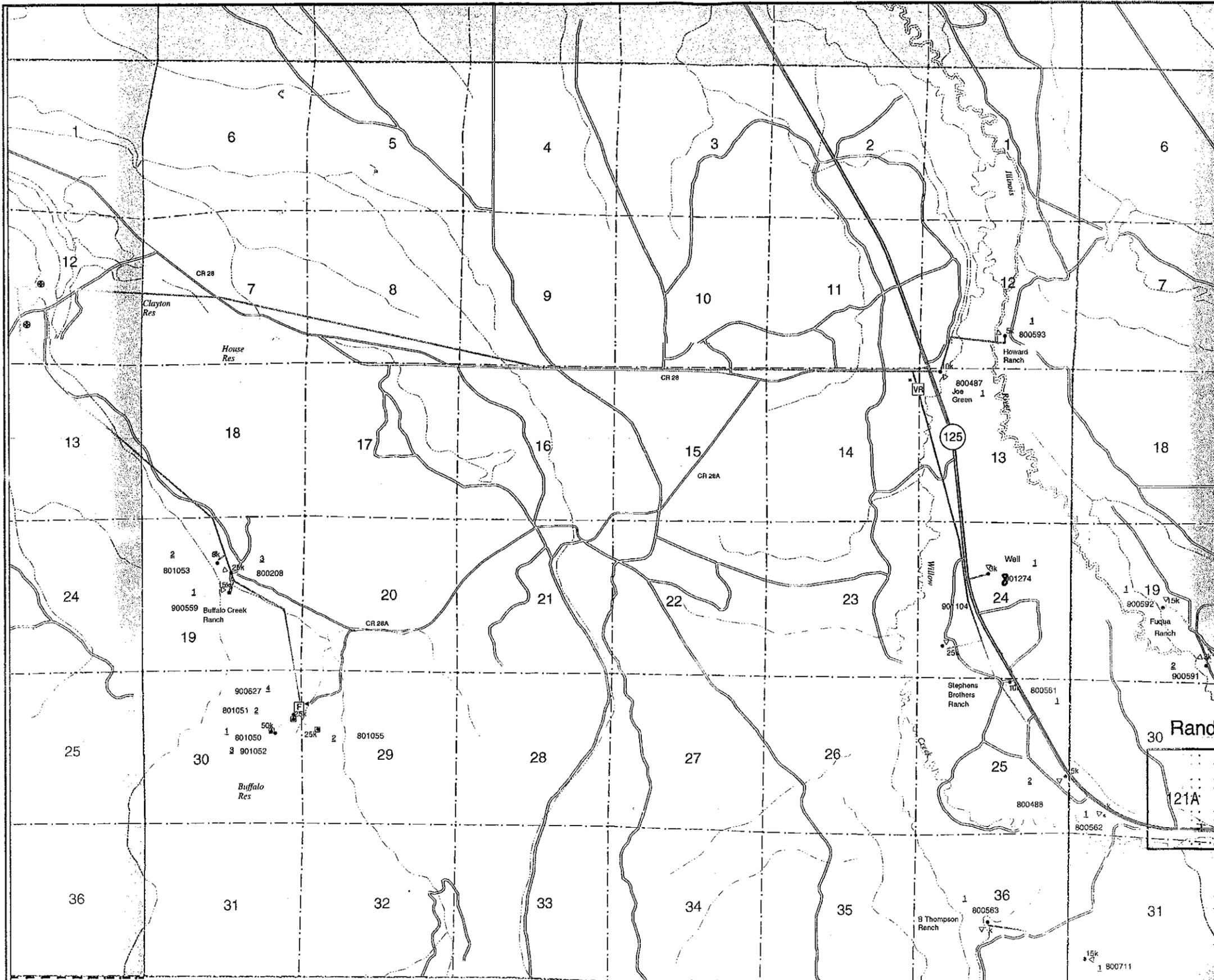
STATE & COUNTY	TOWNSHIP/RANGE	DWG NUMBER
COLORADO JACKSON	T7N R79W	112



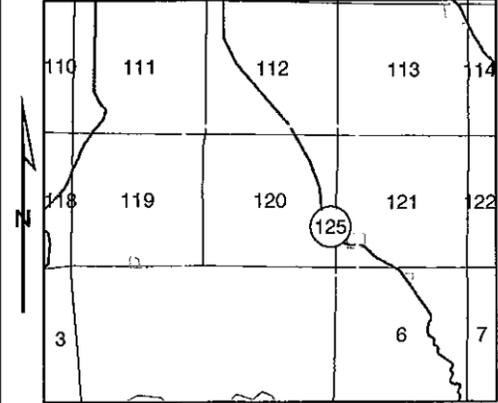
DRAFTED BY: NLF DIR DIST: 3
 DATE: 03-04 APP'D BY: LAS
 # OF METERS: 15 CO MAP:

Legend

- 12967
- Meter
- Pole
- ◀ Riser
- ⊠ Capacitor
- ⊠ Fuse
- ⊠ RE Recloser-Elec
- ⊠ RH Recloser-Hyd
- ⊠ SE Sectlizr-Elec
- ⊠ SH Sectlizr-Hyd
- ⊠ Switch
- ⊠ GOAB Switch
- ▽ 1ph OH Transformer
- △ 1phs UG Transformer
- ▼ 3phs OH Transformer
- ▲ 2-3phs UG Transformer
- Vault
- ▨ 1 Phs Sector
- ▩ 3 Phs Sector
- ⊠ SG SwitchGear
- VR Voltage Regulator
- () Normal Open
- ⊕ Fault Indicator
- Unknown Phase
- - - A phs UG Line
- - - B phs UG Line
- - - C phs UG Line
- - - V phs UG Line
- - - 3 phs UG Line
- A phs OH Line
- B phs OH Line
- C phs OH Line
- V phs OH Line
- 3 phsE OH Line
- Transmission Line



VICINITY MAP



0 2,000 4,000 6,000
 SCALE IN FEET

TOWNSHIP MAP

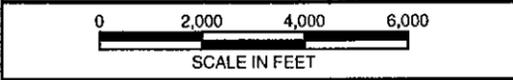
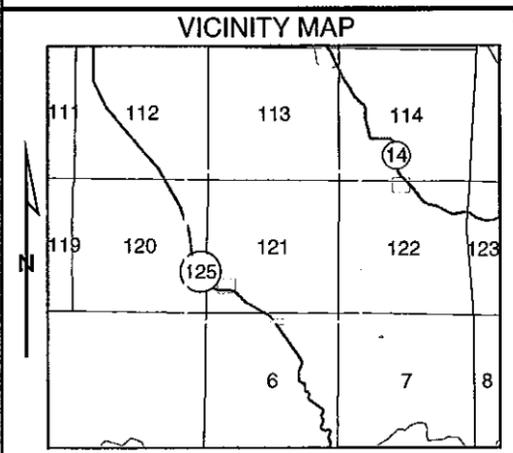
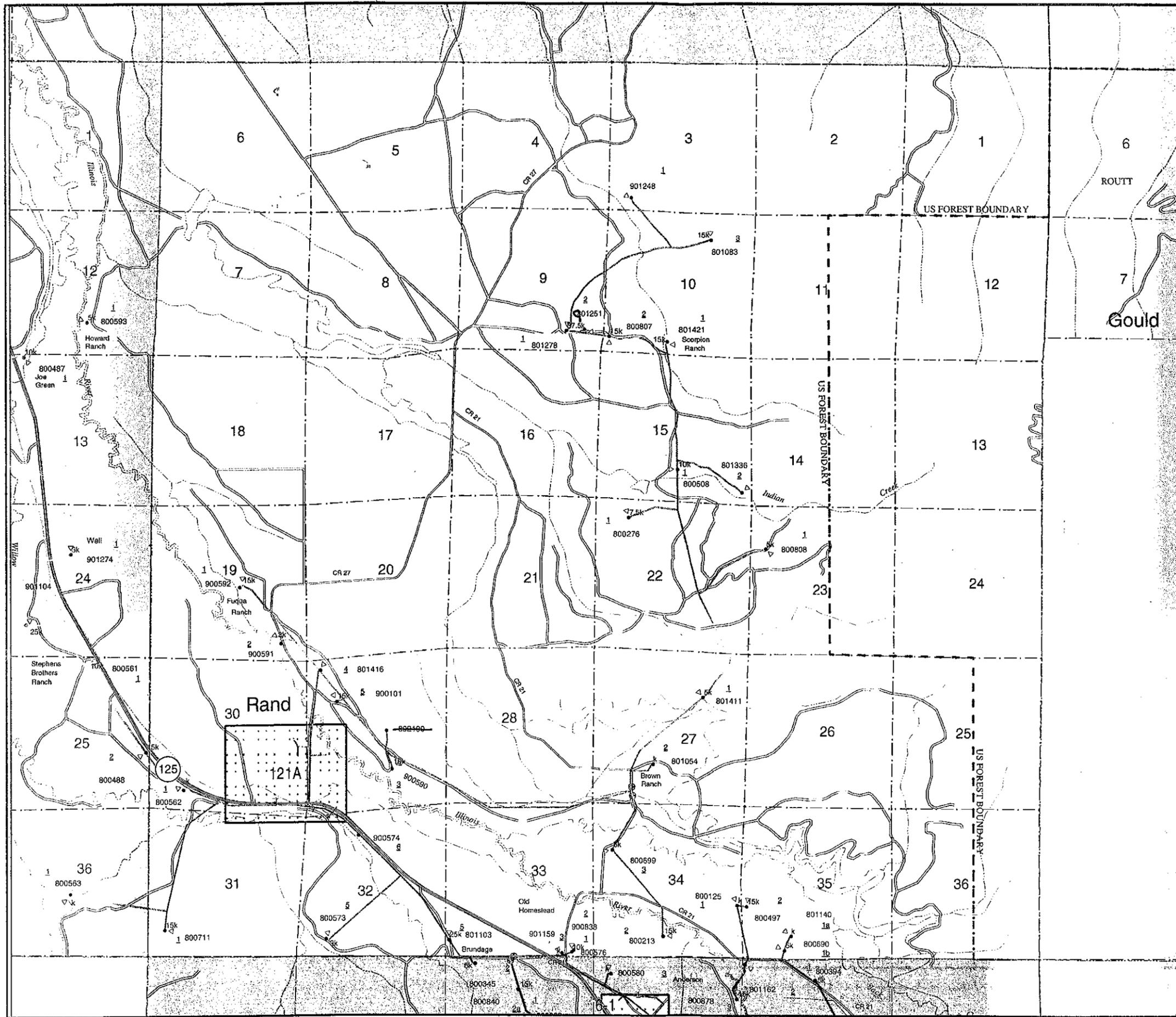
STATE & COUNTY	TOWN/RANGE	DWG NUMBER
COLORADO JACKSON	T6N R79W	120



DRAFTED BY: NLF DIR DIST: 3
 DATE: 03-04 APP'D BY: LAS
 # OF METERS: 231 CO MAP:

Legend

- | | | |
|-------------------------|-------------------------|---------------------|
| 12967 | ● Meter | — Unknown Phase |
| ○ Pole | ○ Pole | - - - A phs UG Line |
| ◀ Riser | ◀ Riser | - - - B phs UG Line |
| ⊠ Capacitor | ⊠ Capacitor | - - - C phs UG Line |
| ⊡ Fuse | ⊡ Fuse | - - - V phs UG Line |
| ⊞ Recloser-Elec | ⊞ Recloser-Elec | - - - 3 phs UG Line |
| ⊞ Recloser-Hyd | ⊞ Recloser-Hyd | — A phs OH Line |
| ⊞ Sectlr-Elec | ⊞ Sectlr-Elec | — B phs OH Line |
| ⊞ Sectlr-Hyd | ⊞ Sectlr-Hyd | — C phs OH Line |
| ⊞ Switch | ⊞ Switch | — V phs OH Line |
| ⊞ GOAB Switch | ⊞ GOAB Switch | — 3 phsE OH Line |
| ▽ 1ph OH Transformer | ▽ 1ph OH Transformer | — Transmission Line |
| ⊞ 1phs UG Transformer | ⊞ 1phs UG Transformer | |
| ▼ 3phs OH Transformer | ▼ 3phs OH Transformer | |
| ▲ 2-3phs UG Transformer | ▲ 2-3phs UG Transformer | |
| □ Vault | □ Vault | |
| ⊞ 1 Phs Sector | ⊞ 1 Phs Sector | |
| ⊞ 3 Phs Sector | ⊞ 3 Phs Sector | |
| ⊞ SwitchGear | ⊞ SwitchGear | |
| ⊞ Voltage Regulator | ⊞ Voltage Regulator | |
| () Normal Open | () Normal Open | |
| ⊞ Fault Indicator | ⊞ Fault Indicator | |



TOWNSHIP MAP		
STATE & COUNTY	TOWNSHIP/RANGE	DWG NUMBER
COLORADO JACKSON	T6N R78W	121