

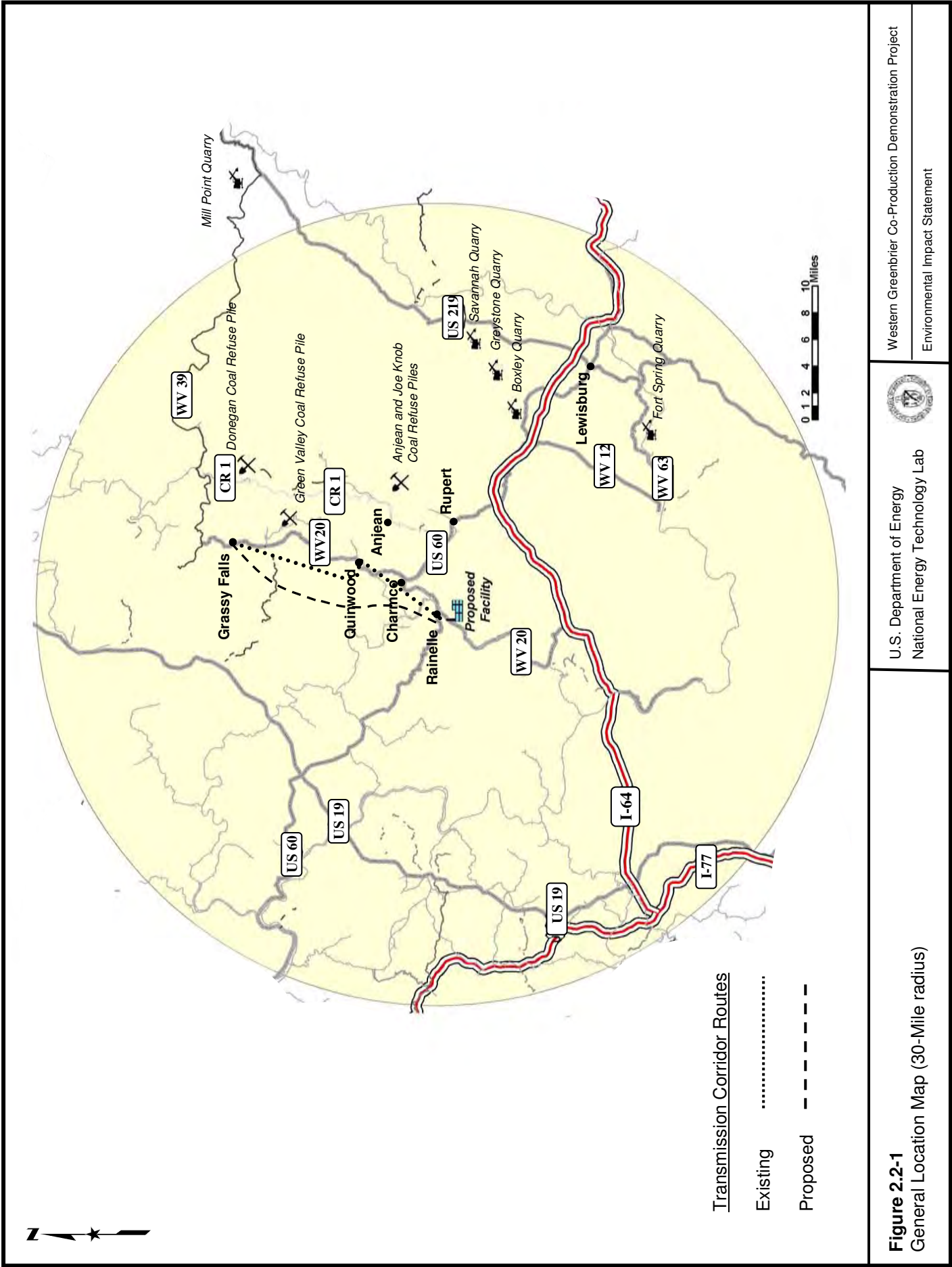


Figure 2.2-1
General Location Map (30-Mile radius)

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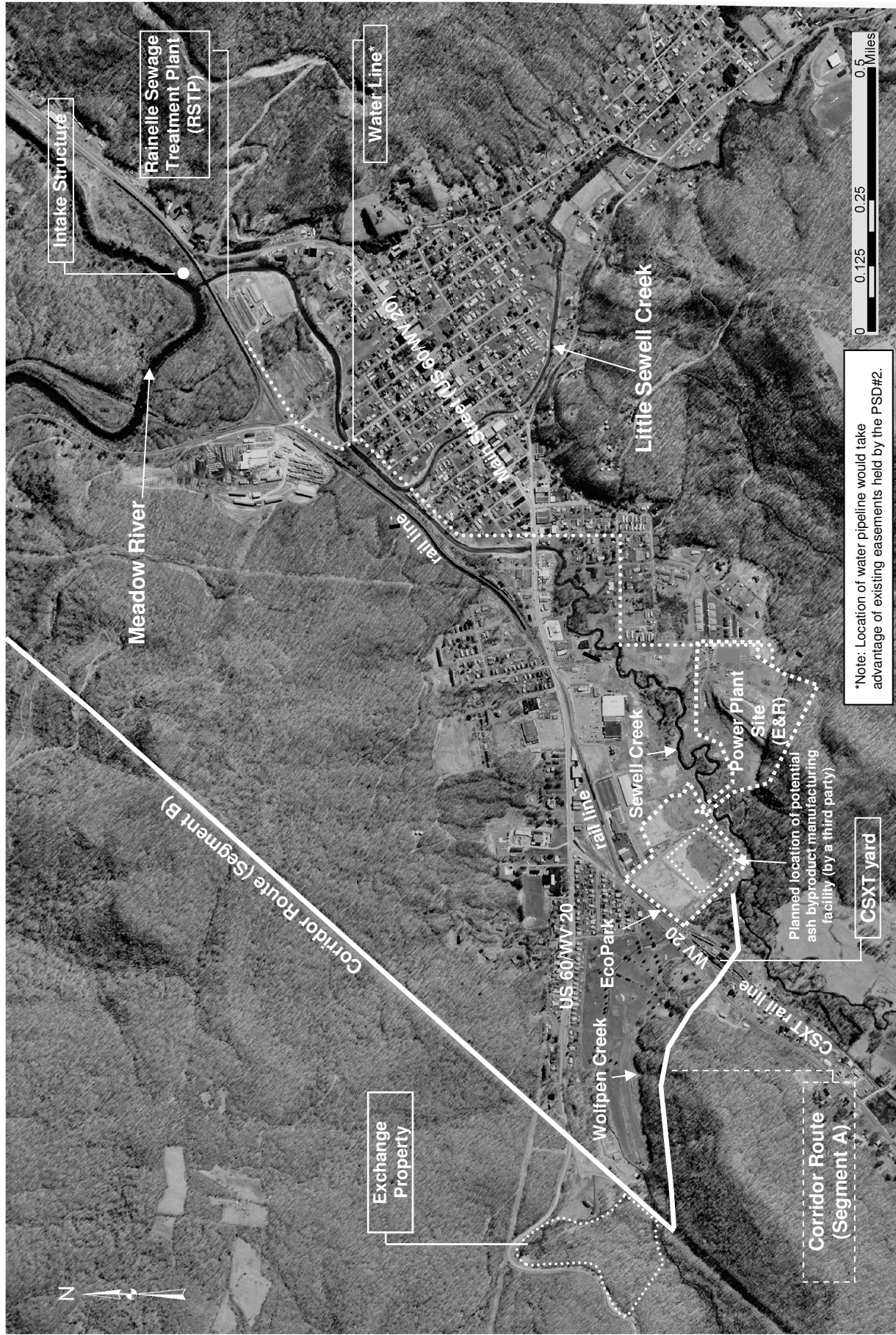


Figure 2.2-3.

Aerial Photo Depicting Site Boundaries

Map Source: USGS orthophoto map (1:12,000) Rainelle NE, 1996



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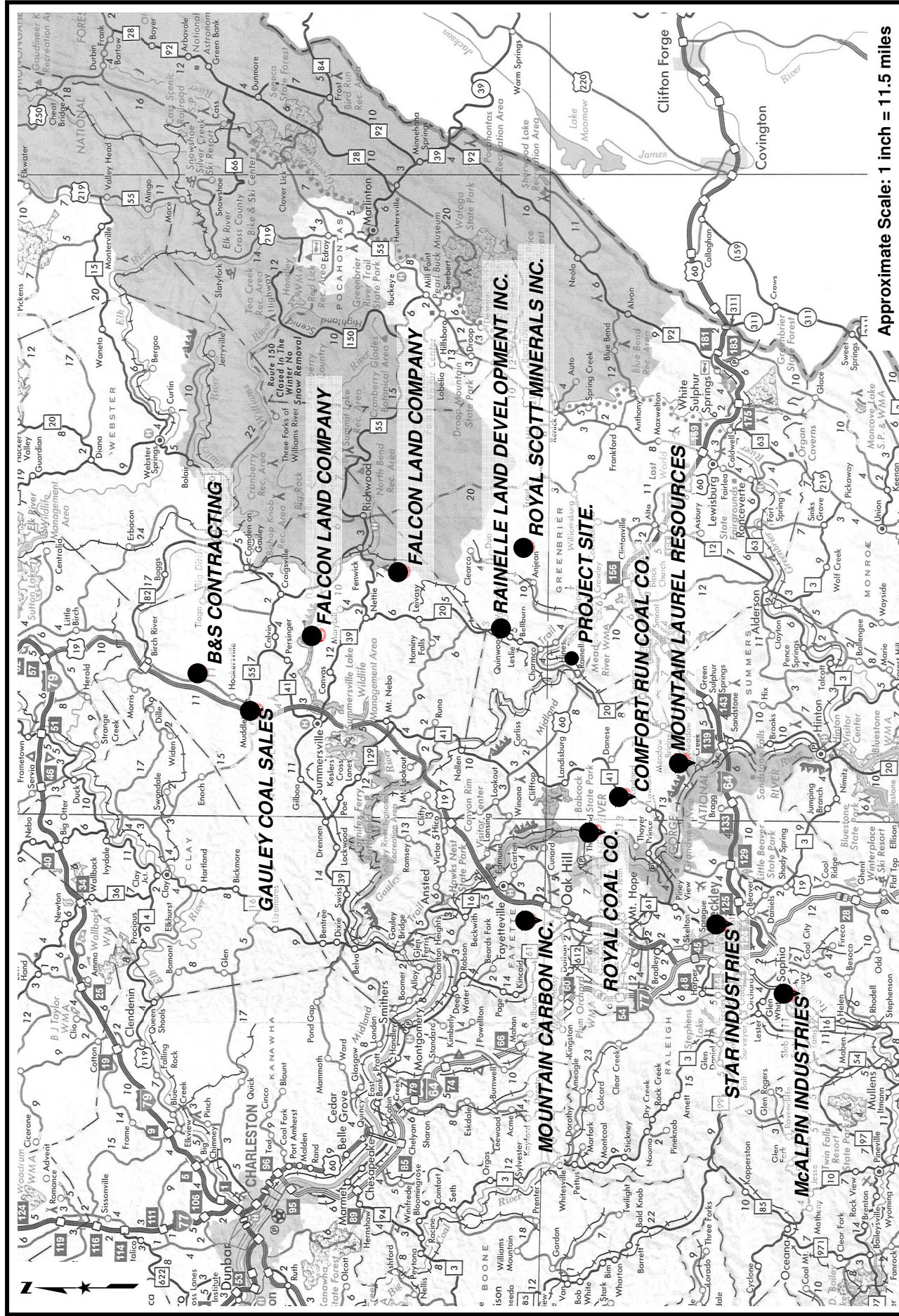


Figure 2.2-4.

Forfeited Permits With Coal Refuse Within Approximately 30 miles of
Rainelle

Map Source: WVDOT Highway Map; Data Source: WVDEP, 2005

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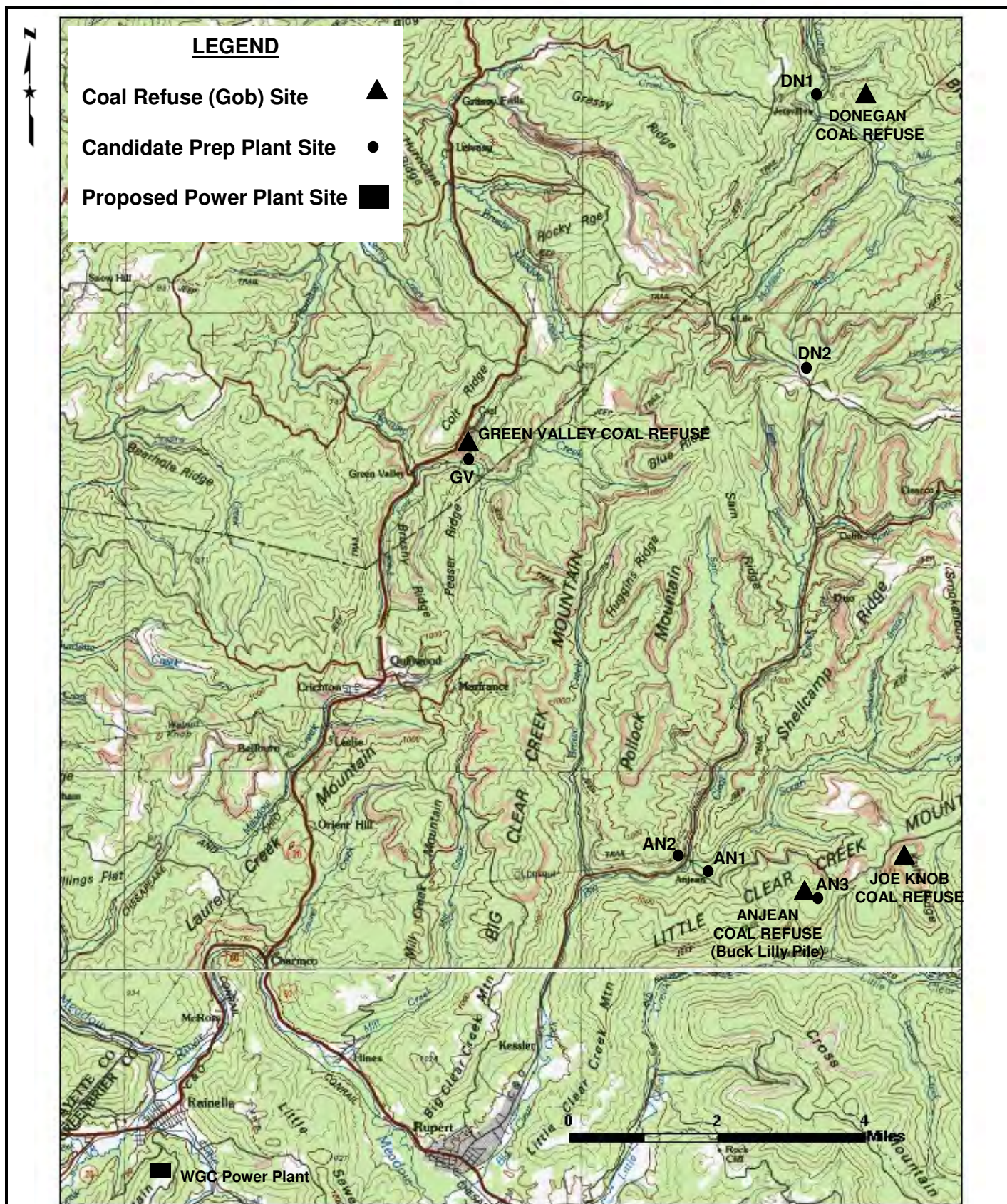


Figure 2.2-15.

Coal Refuse and Candidate Prep Plant Locations
 Map Source: USGS topo maps (1:100,000) Marlinton (1979)
 and Lewisburg (1984)

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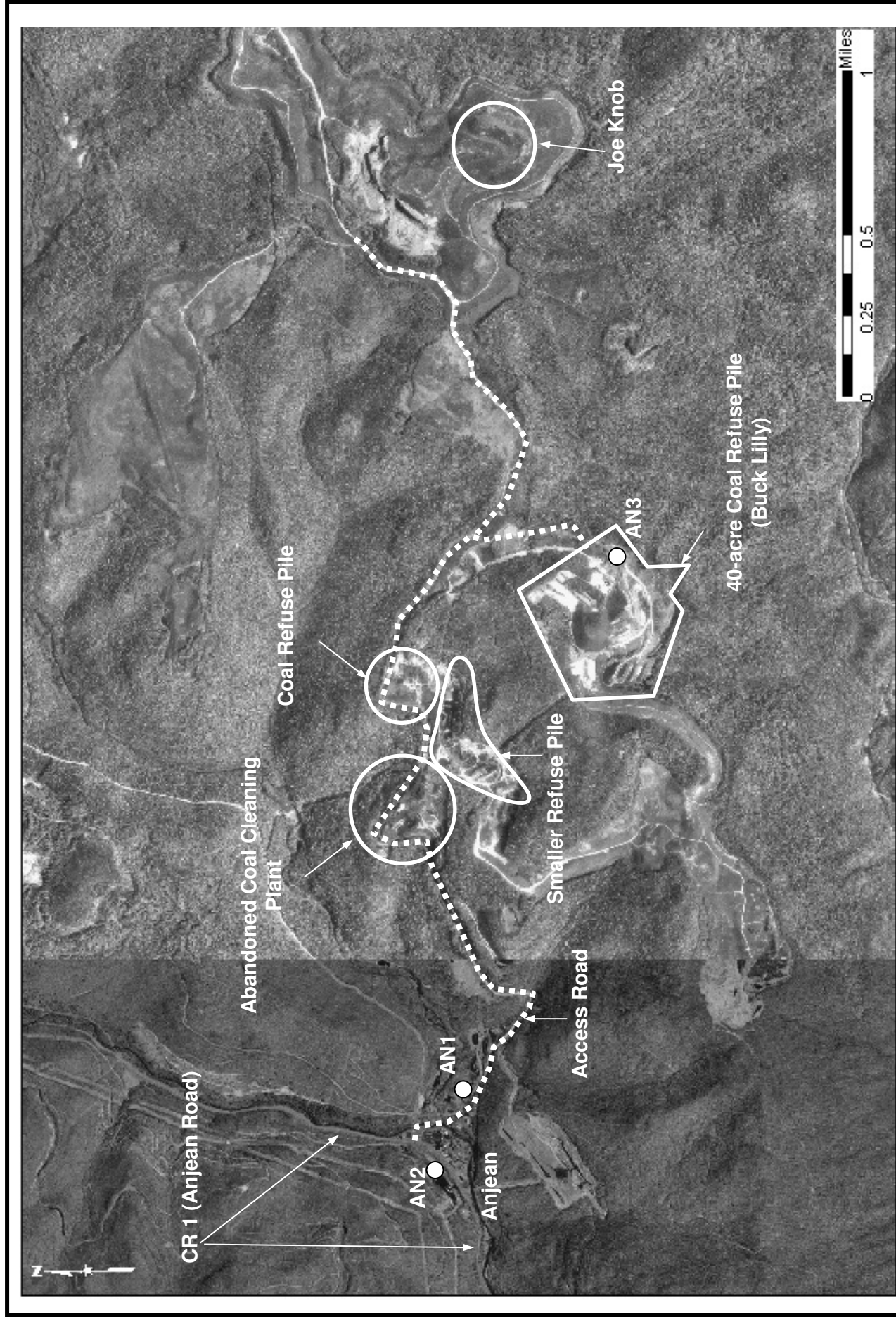


Figure 2.2-16.

Aerial Photo of Anjean/Joe Knob and Site Features

Map Source: USGS orthophoto map (1:12,000) Quinwood SE (1997) and Duo SW (1990)



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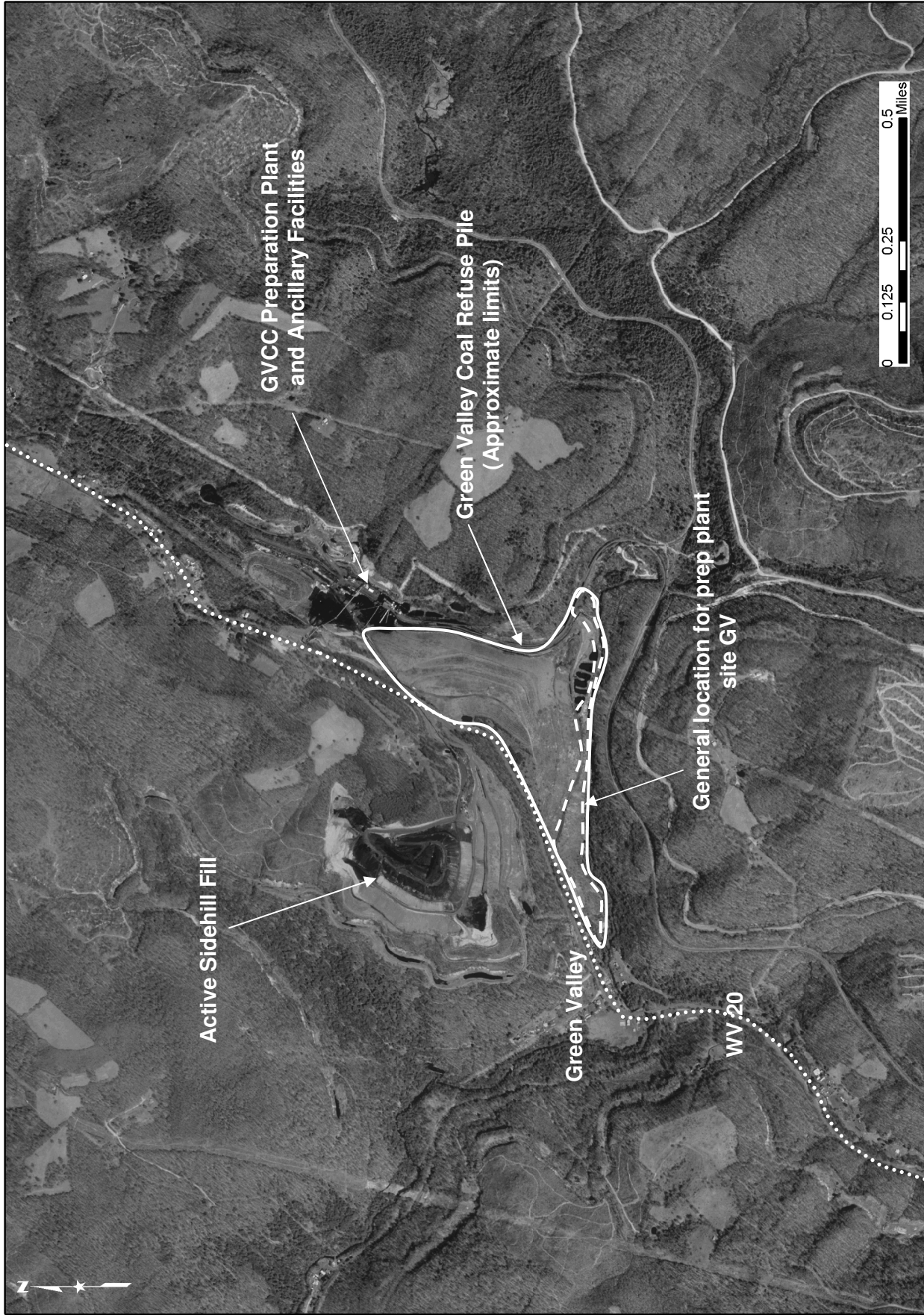


Figure 2.2-17.

Aerial Photo of Green Valley and Site Features

Map Source: USGS orthophoto map (1:12,000), Quinwood NW and Quinwood NE (1997)



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Figure 2.2-18.

Aerial Photo of Donegan Site

Sources: USGS DOQQ map (1:12,000) Richwood SW (1995)

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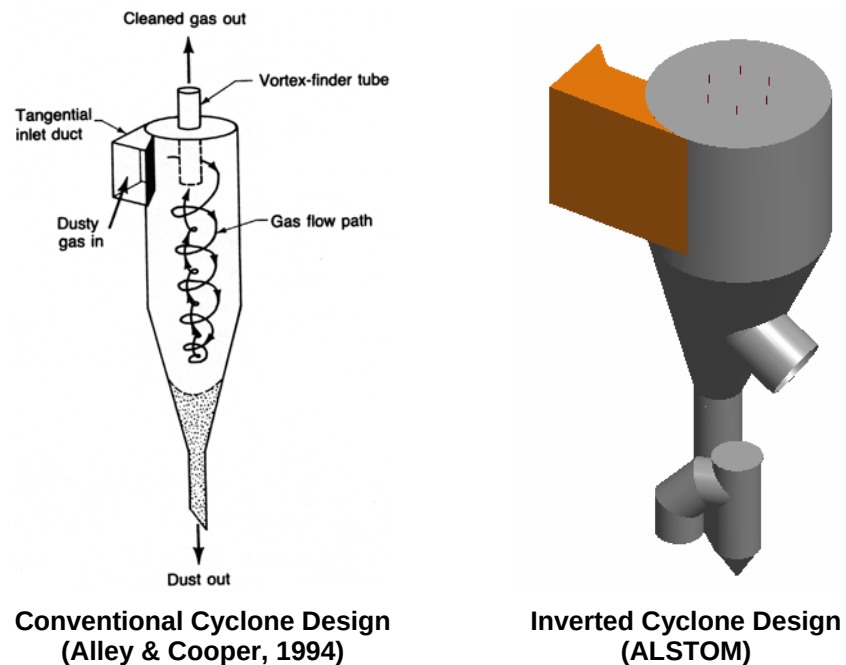


Figure 2.3-2. Comparison of Cyclone Designs

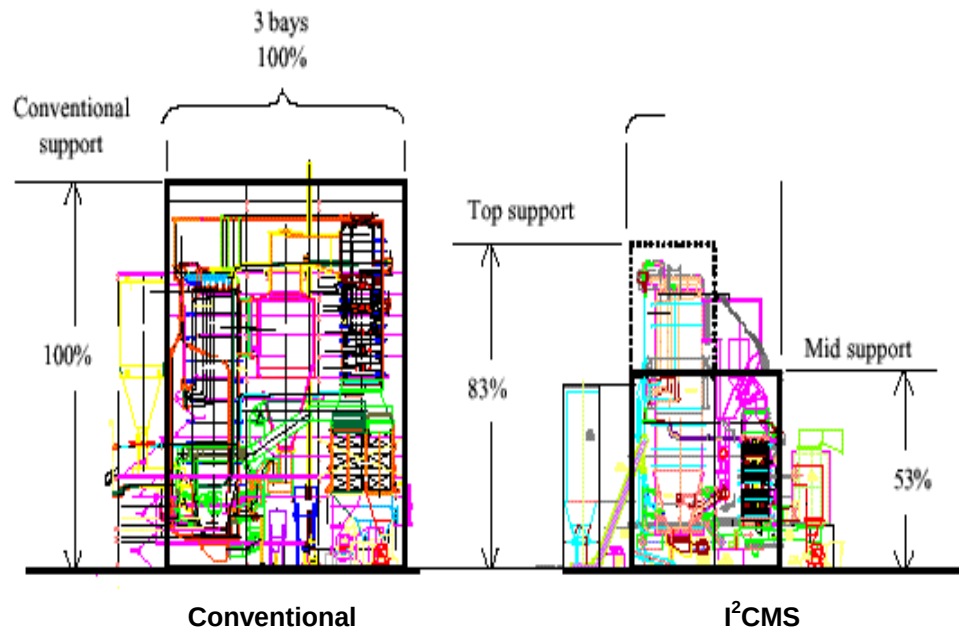
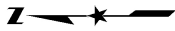


Figure 2.3-3. Comparison of Boiler Profiles



NOT TO SCALE

Figure 2.4-1.
Option A – E&R Property with Reduced Footprint

Sources: PEC 2006 Version A

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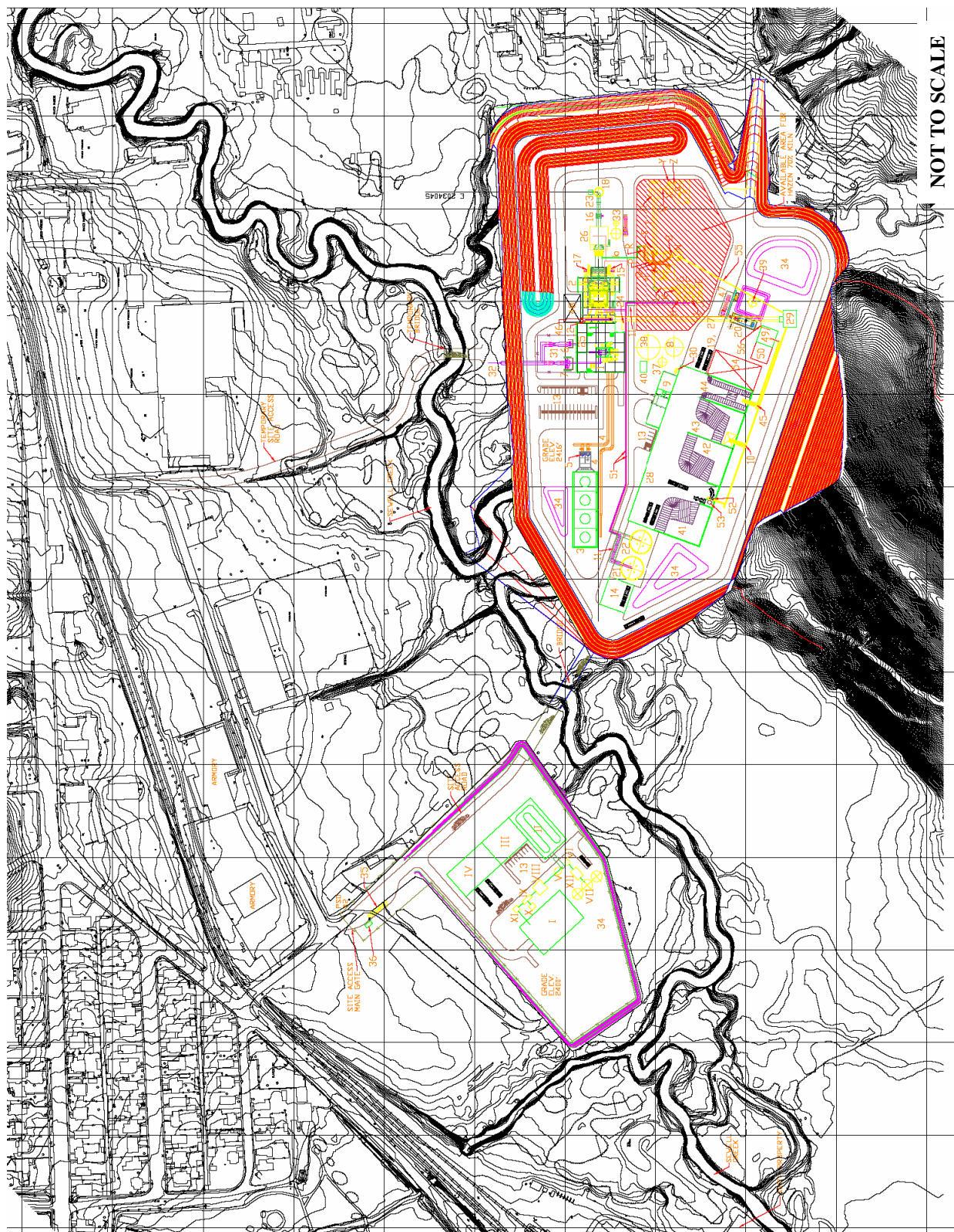


Figure 2.4-2.
Option B – E&R Property with Reduced Footprint

Sources: PEC 2006 Version A

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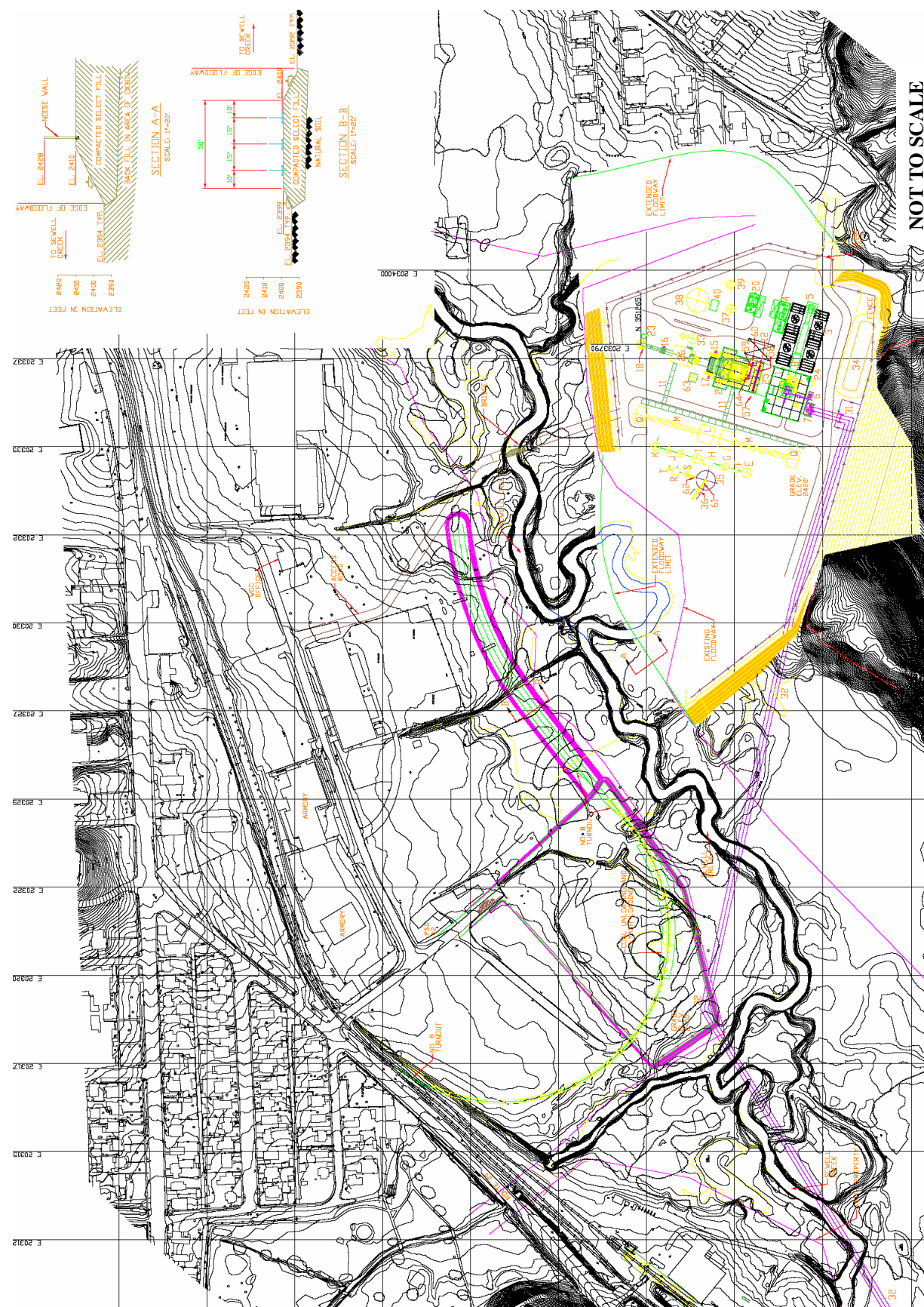


Figure 2.4-3.
Option C – E&R Property with Earthen Berm and Rail Spur

Sources: PEC 2006 Version A

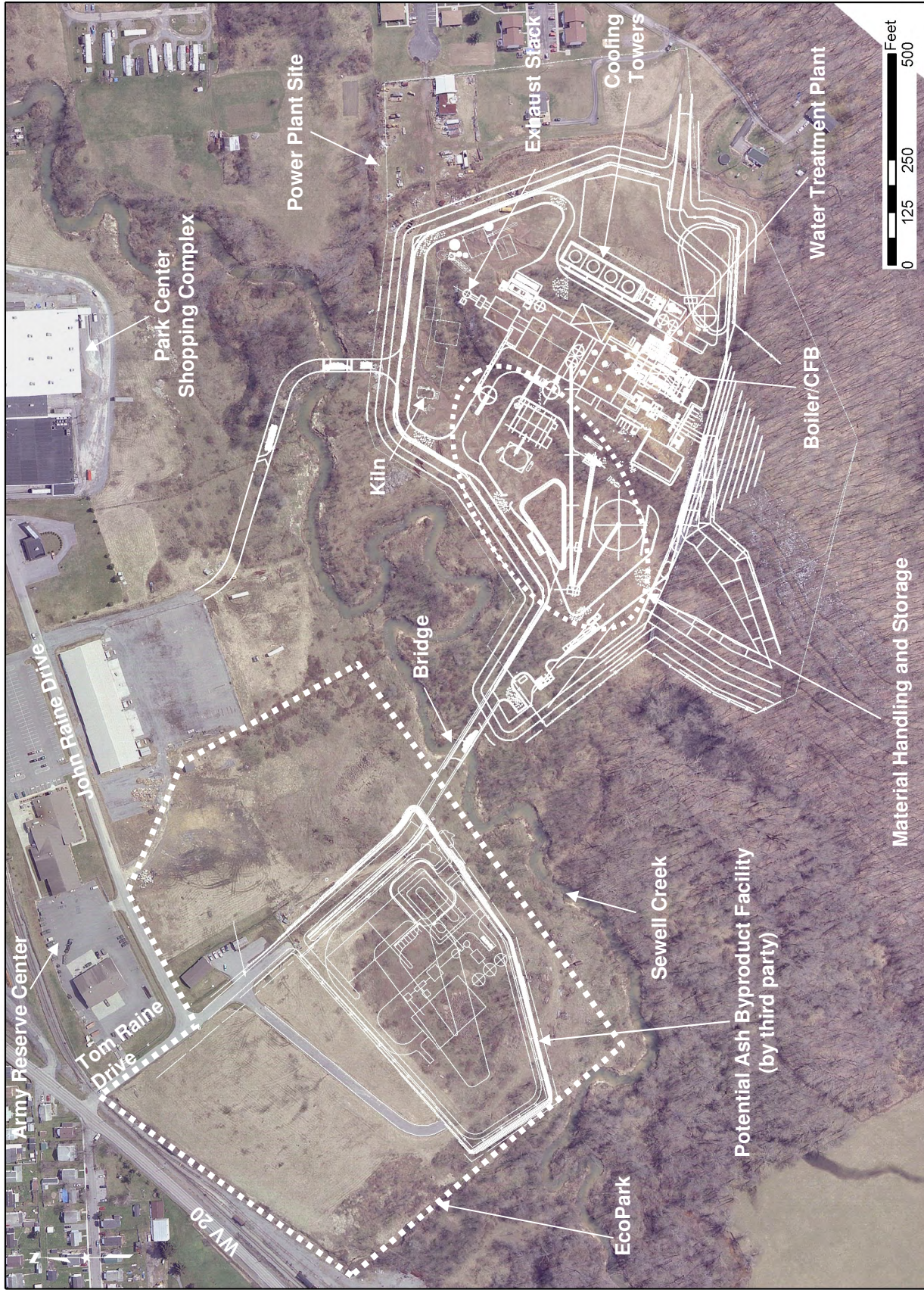


Figure 2.4-4.

Proposed Site Plan

Sources: Rainelle Aerial Map Source (2004); Power Plant Site Plan Rev D – CH2MHill/Lockwood-Greene, May 9, 2006; Kiln Layout – Hazen, 2005



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Transportation Routes

Figure 2.4-6.
Expected Material Transportation Routes (30-mile radius)

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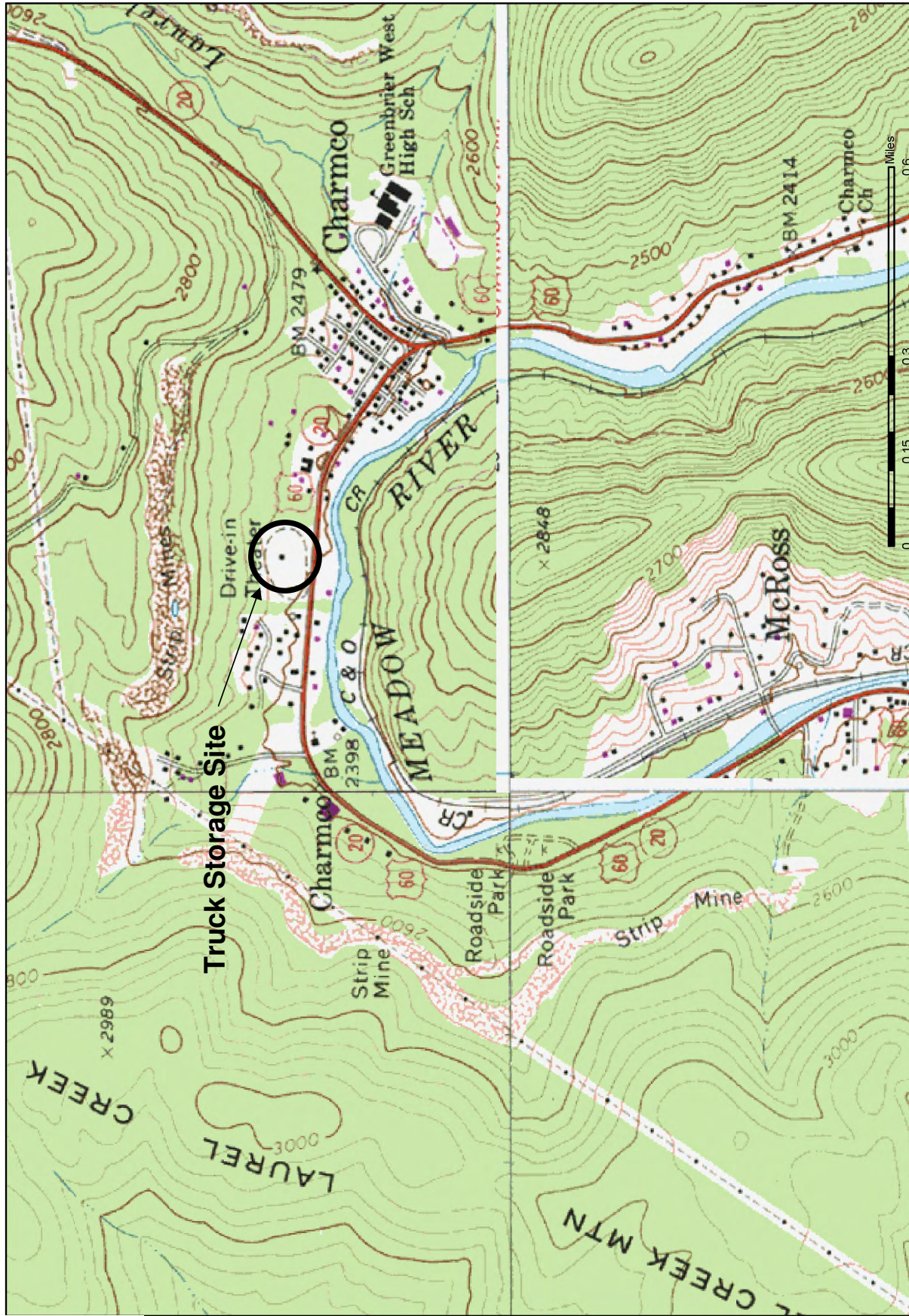


Figure 2.4-8.

Potential Truck Storage Site (Charmco)

Map Source: USGS topo (1:24,000) Quinwood (1981)

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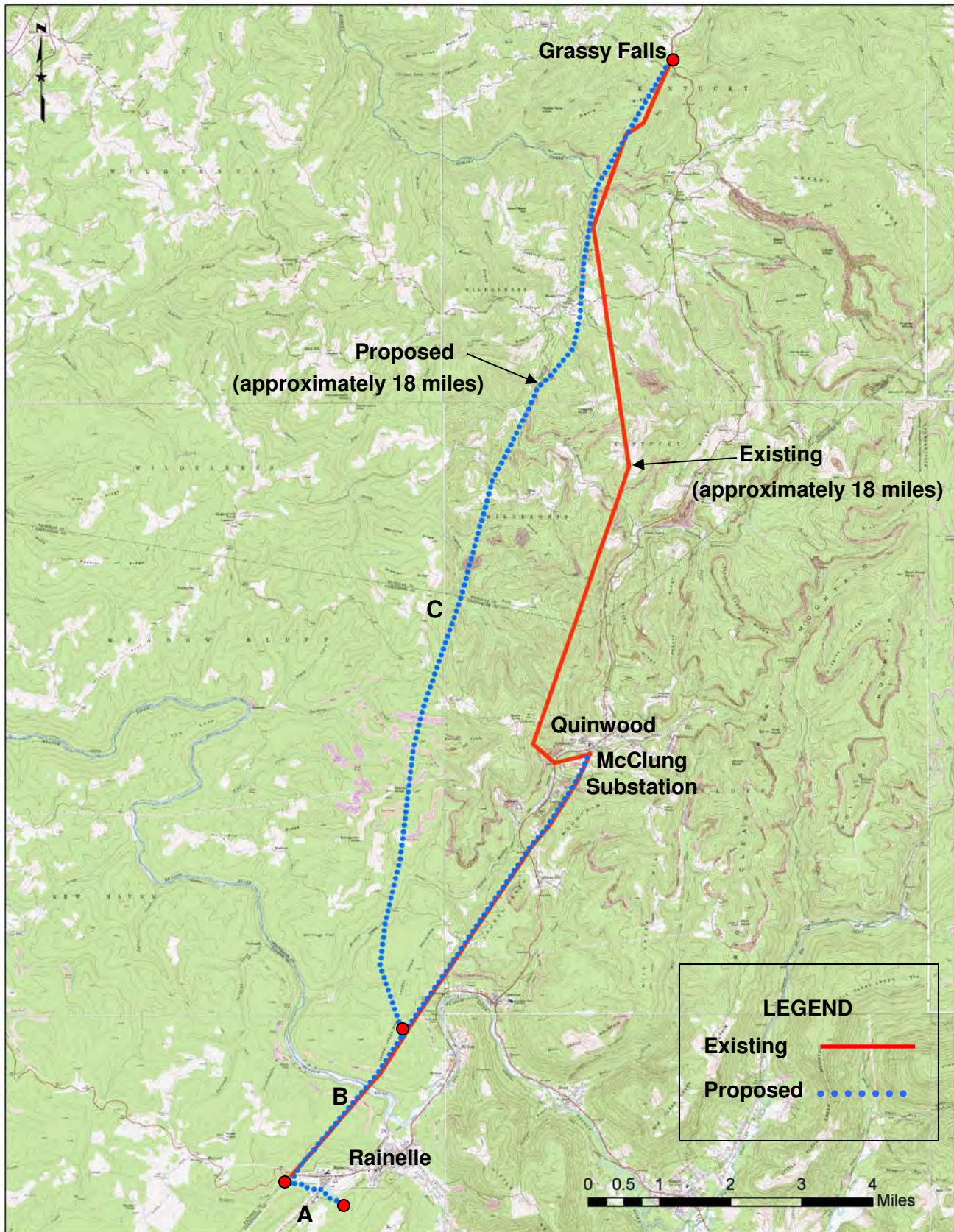


Figure 2.4-9.
Transmission Corridor Options

Sources: USGS topo (1:24,000) - Rainelle (1976), Rupert (1981), Quinwood (1981)

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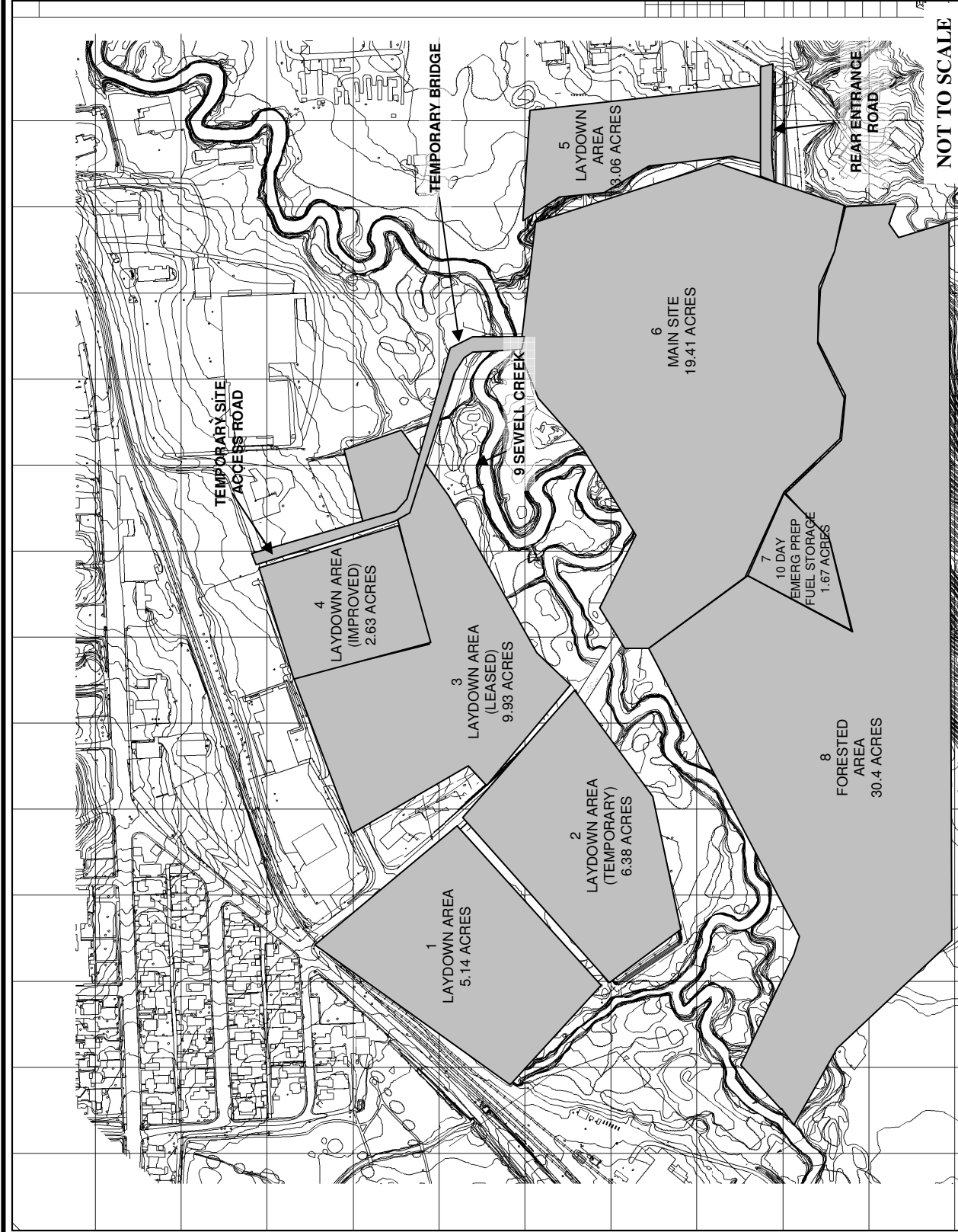


Figure 2.4-11.
Plant Construction and Laydown Areas

Sources: Parsons E&C, 2005

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Figure 4.2-1
Properties Closest to the Proposed Plant Site

Map Source: Photo Science, 2004



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Figure 3.2-4. View toward Project Site at Intersection of US 60 and WV 20, Facing South



Figure 3.2-5. View toward Project Area at the Intersection of US 60/Park Center Drive/Railroad, Facing Southwest



Figure 3.2-4. View toward Project Site at Intersection of US 60 and WV 20, Facing South



Figure 3.2-5. View toward Project Area at the Intersection of US 60/Park Center Drive/Railroad, Facing Southwest

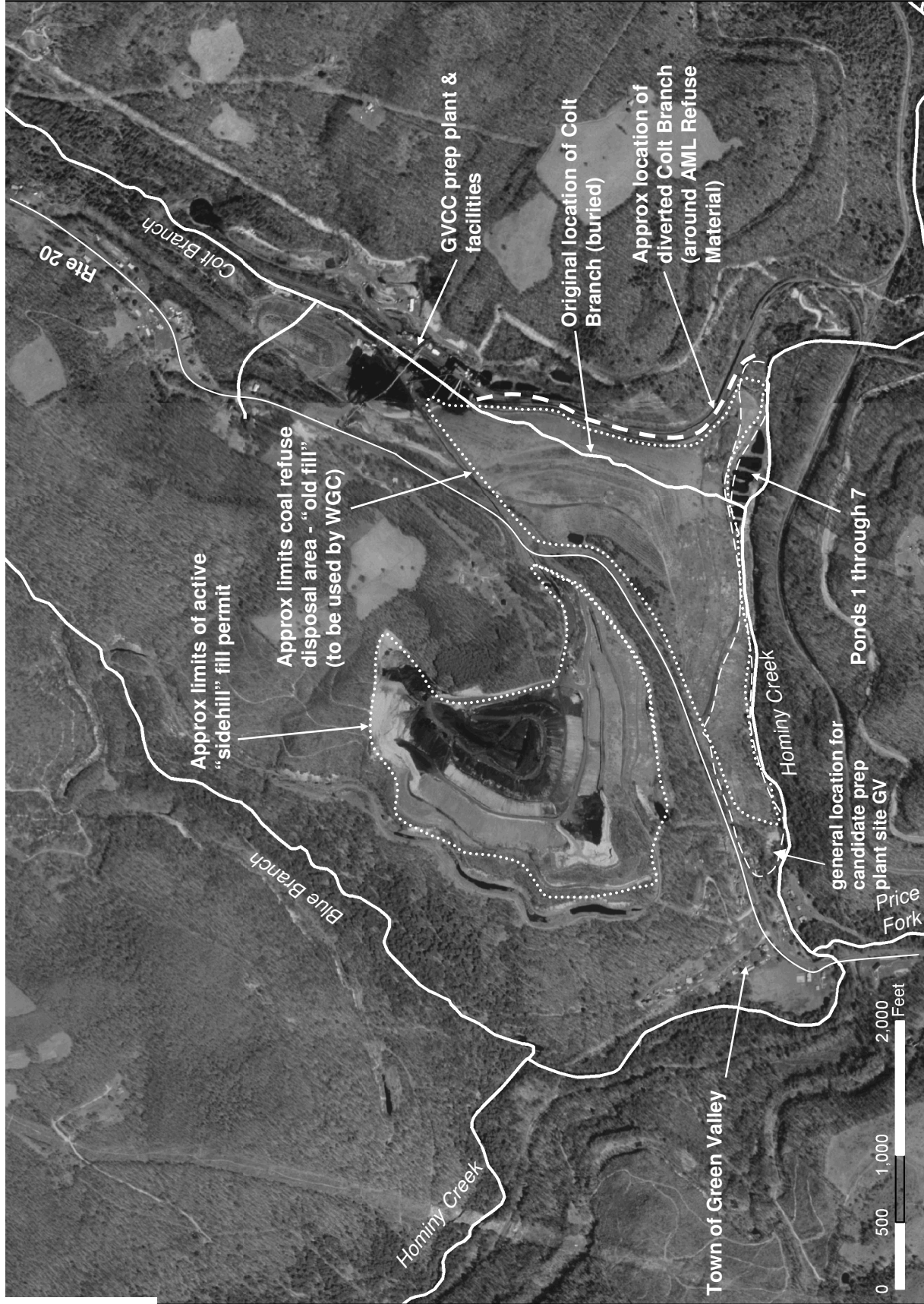


Figure 3.4-6.
Existing Conditions at Green Valley, WV

Map Source: USGS orthophoto (1:12,000) Quinwood NW and NE (1997)

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Figure 3.4-7.
Existing Conditions at Donegan Site (Nicholas County)

Map Source: USGS orthophoto (1:12,000) Richwood SE



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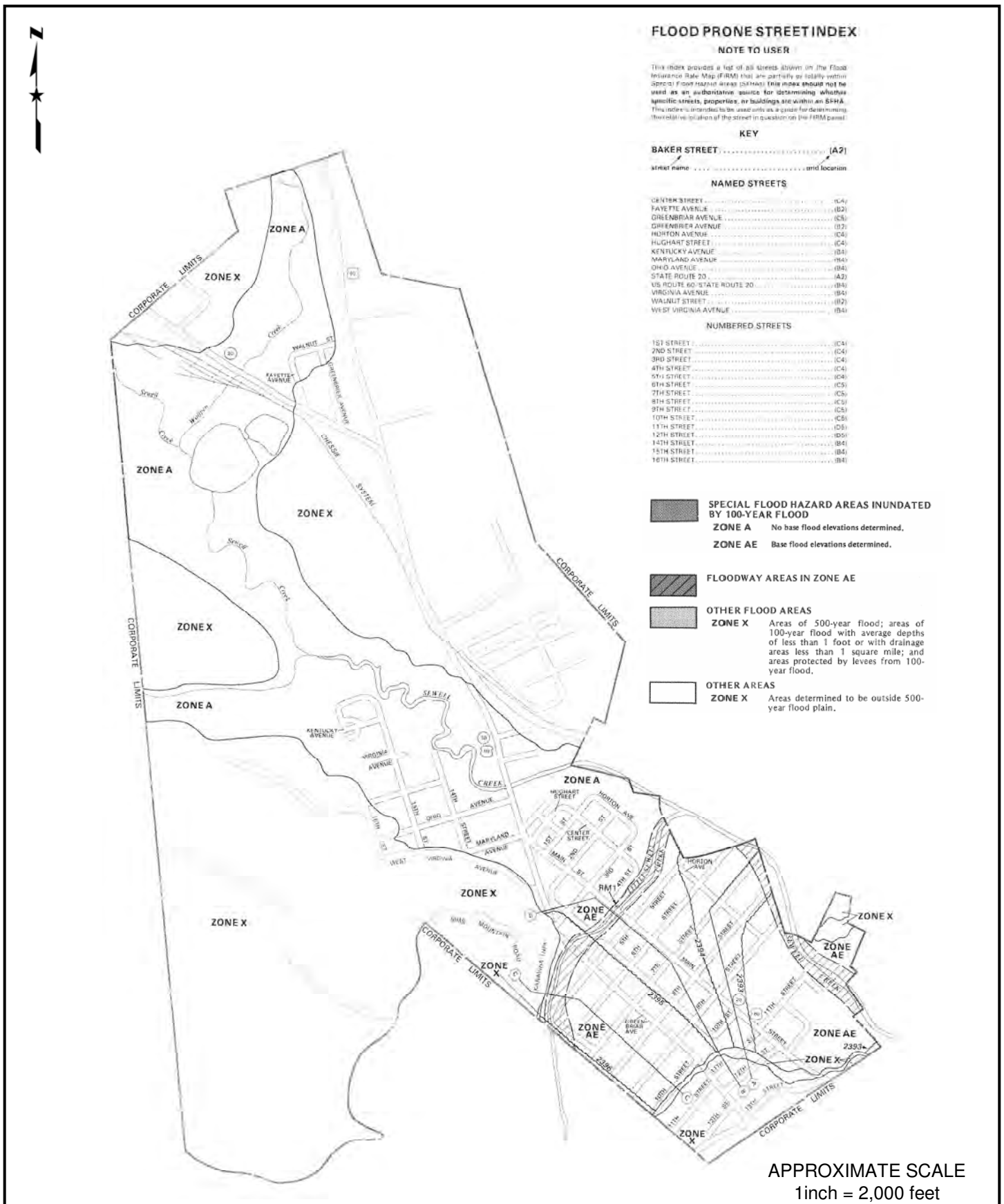


Figure 3.5-2
 Flood Insurance Rate Map (FIRM) of Rainelle

Source: FEMA Community Panel Number 540228 0001 A
 Effective Date: 19 Nov 1987

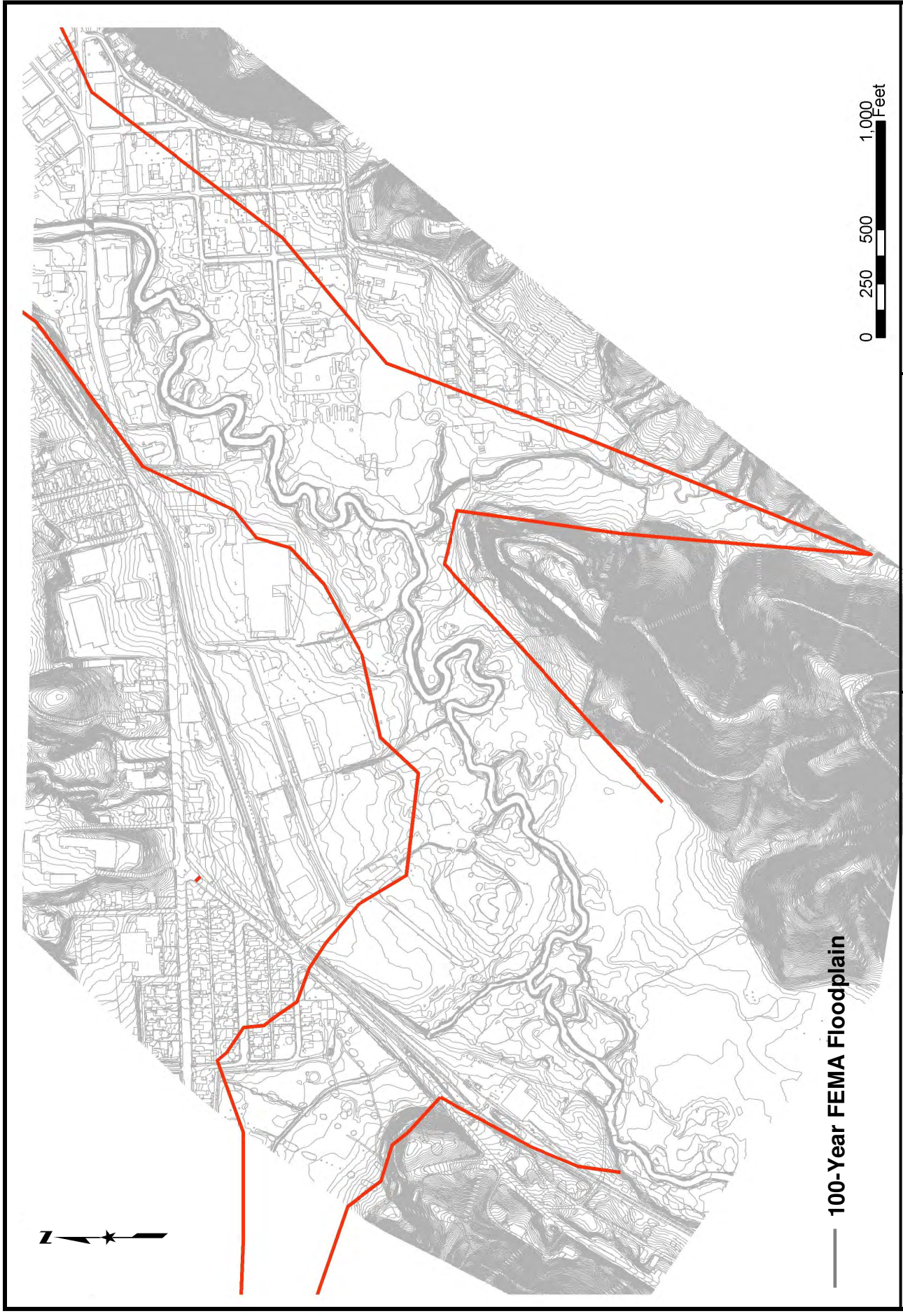
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— 100-Year FEMA Floodplain

Figure 3.5-3
FEMA 100-Year Floodplain at Project Site
Map Source: Potesta, 2004



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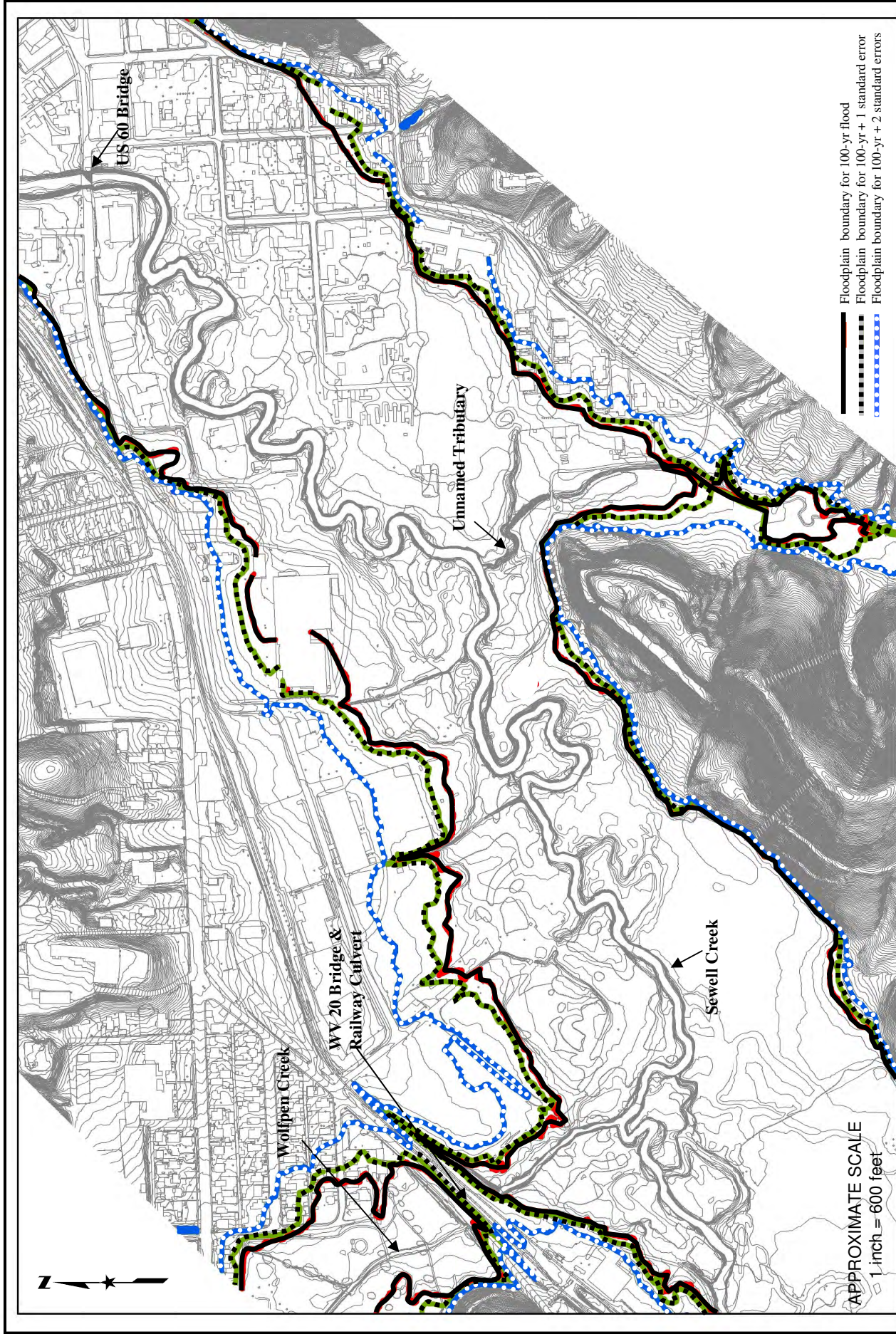


Figure 3.5-4

Floodplain boundaries for 100-yr, 100-yr + 1SE, and 100-yr + 2SE

Map Source: Potesta, 2004

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Figure 3.6-1. Geologic Map of Greenbrier County

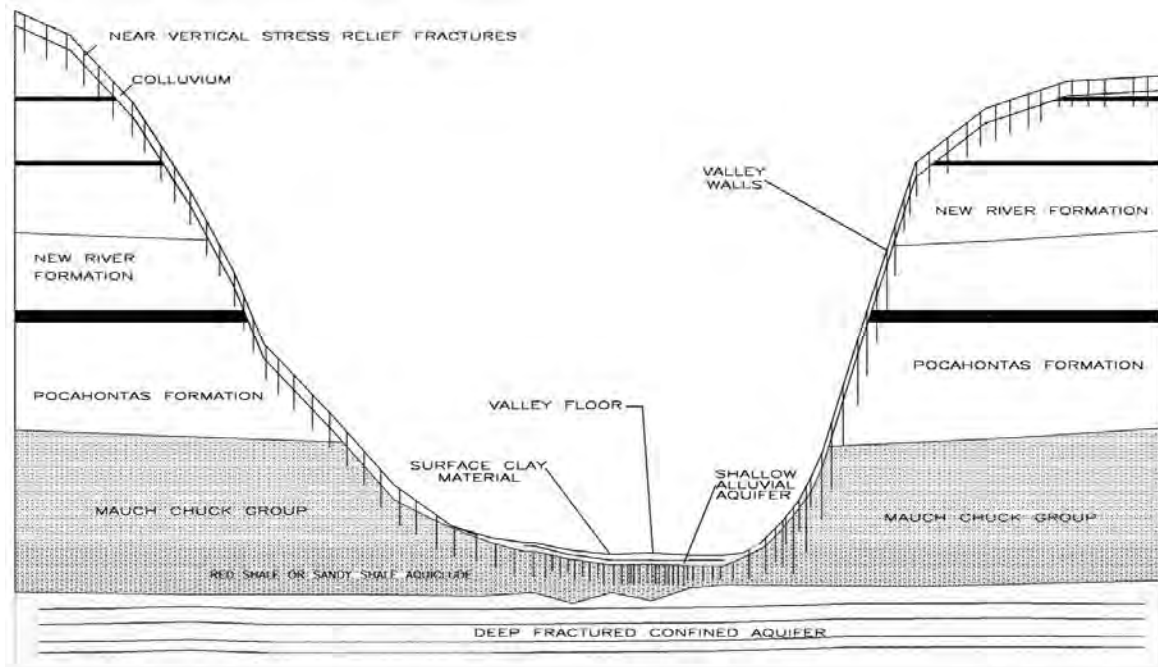


Figure 3.6-2. Site Geology



Figure 3.6-1. Geologic Map of Greenbrier County

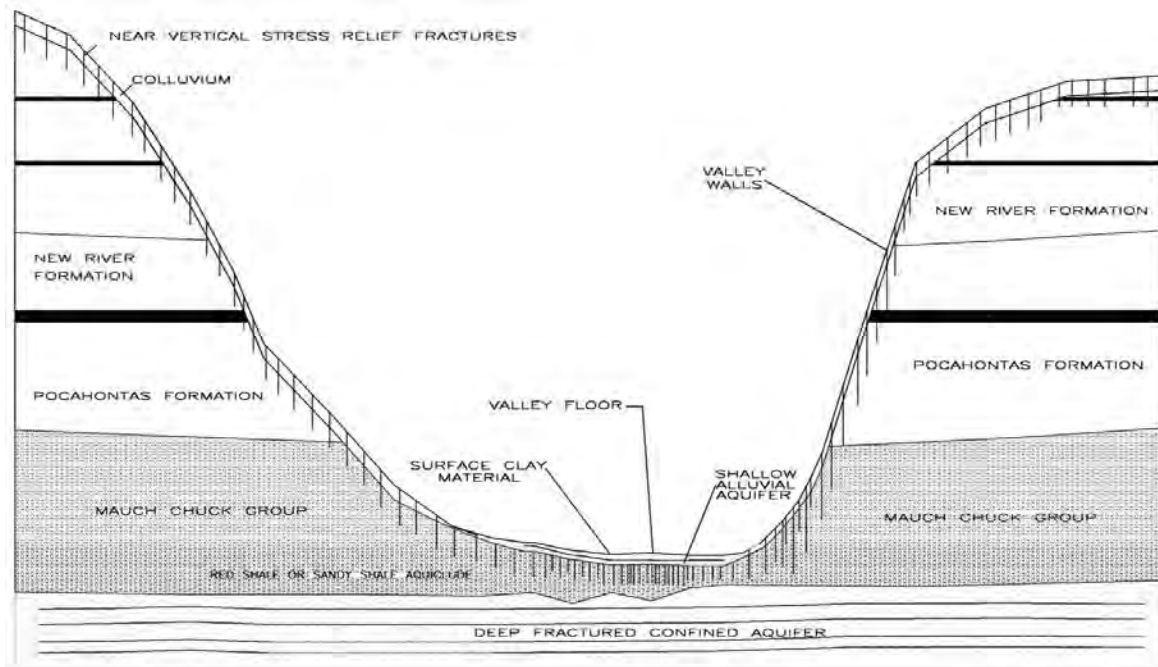


Figure 3.6-2. Site Geology



Figure 3.7-2.

Jurisdictional Wetlands Boundaries

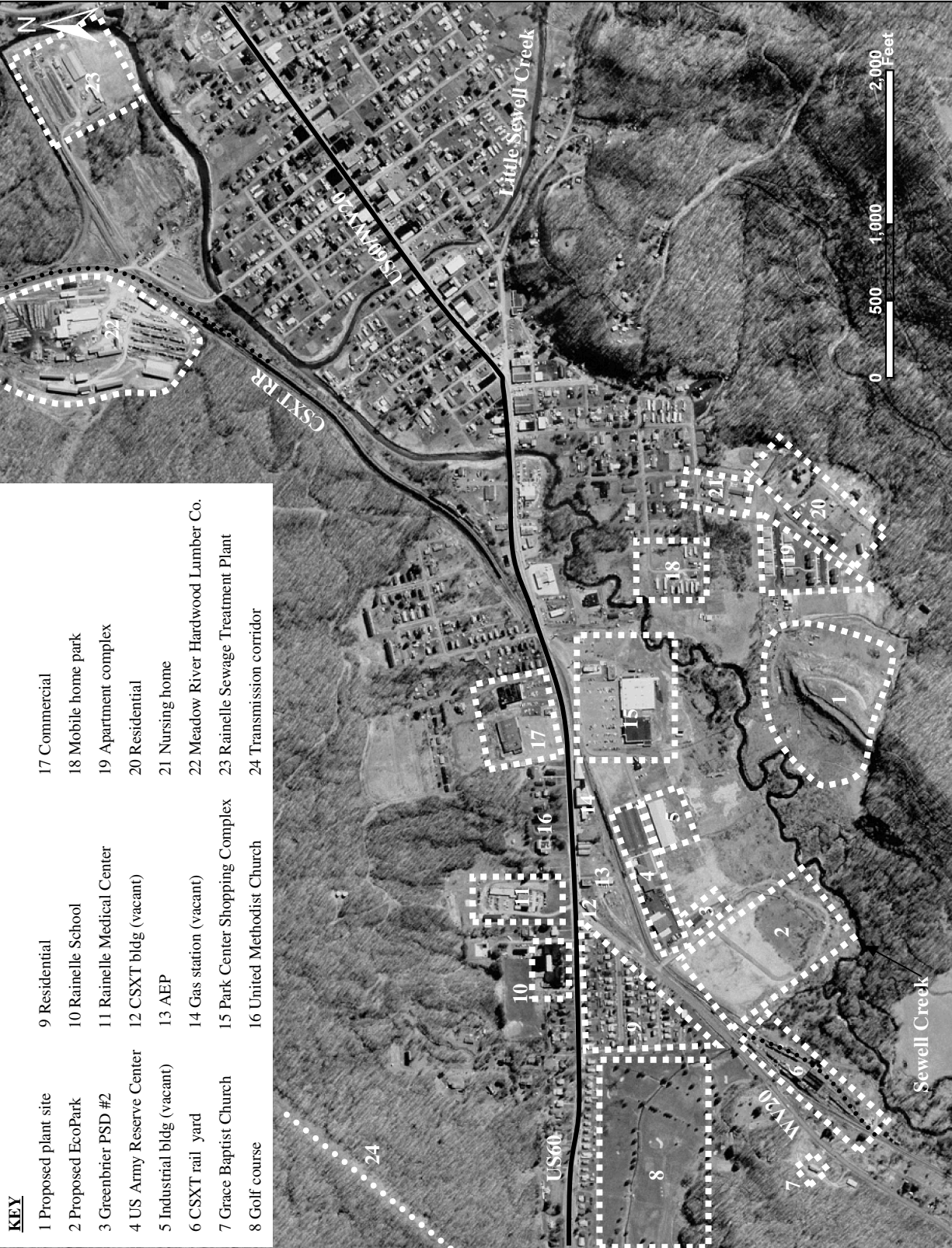
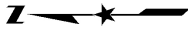
Map Source: Photo Science, 2004



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KEY			
1	Proposed plant site	9	Residential
2	Proposed EcoPark	10	Rainelle School
3	Greenbrier PSD #2	11	Rainelle Medical Center
4	US Army Reserve Center	12	CSXT bldg (vacant)
5	Industrial bldg (vacant)	13	AEP
6	CSXT rail yard	14	Gas station (vacant)
7	Grace Baptist Church	15	Park Center Shopping Complex
8	Golf course	16	United Methodist Church
		17	Commercial
		18	Mobile home park
		19	Apartment complex
		20	Residential
		21	Nursing home
		22	Meadow River Hardwood Lumber Co.
		23	Rainelle Sewage Treatment Plant
		24	Transmission corridor

Figure 3.11-1

Land Uses Within the Vicinity of the Project Site

Map Source: USGS orthophoto (1:12,000) Rainelle (1976)



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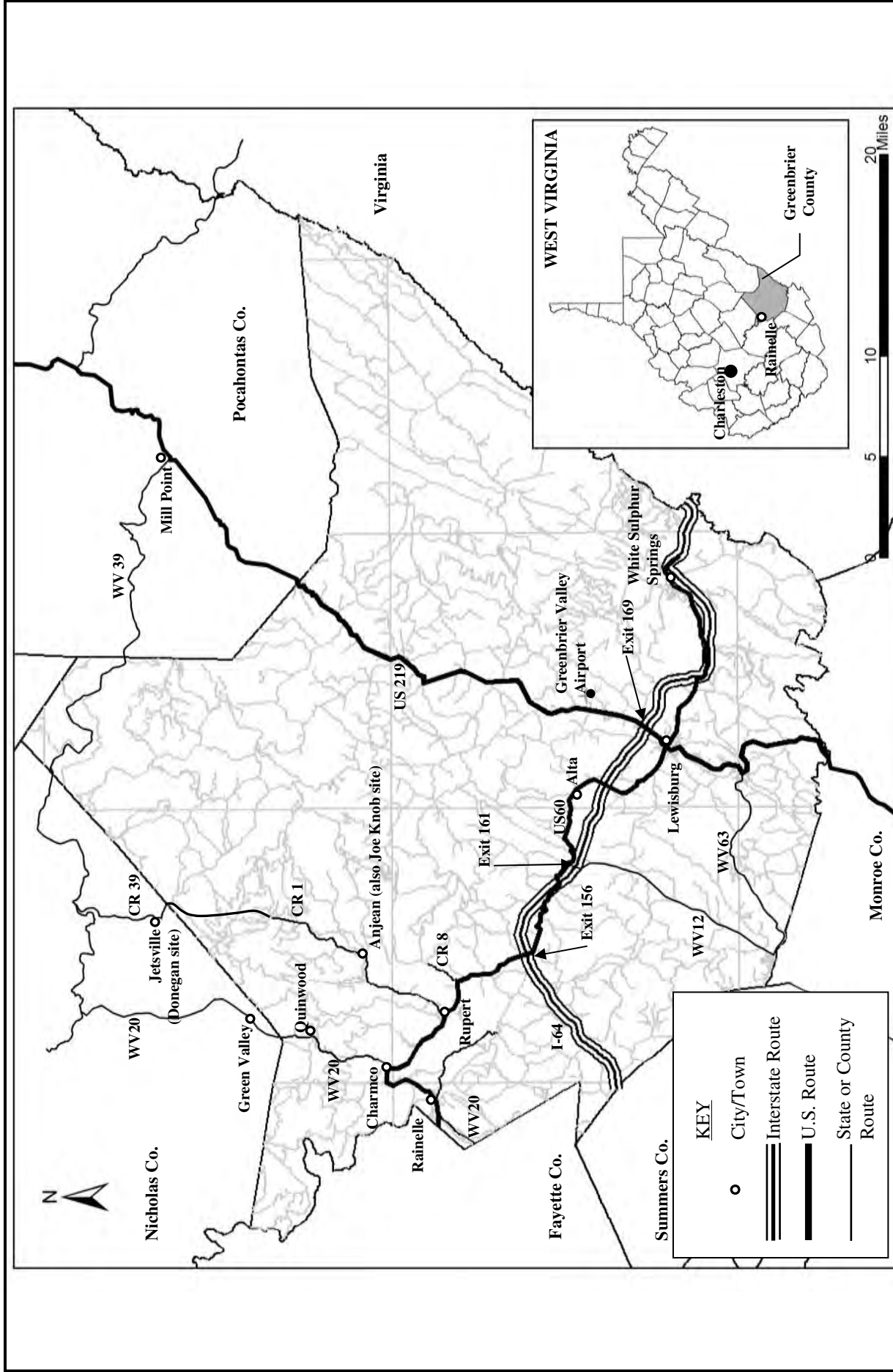


Figure 3.13-1

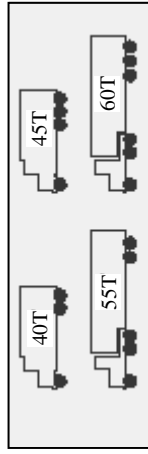
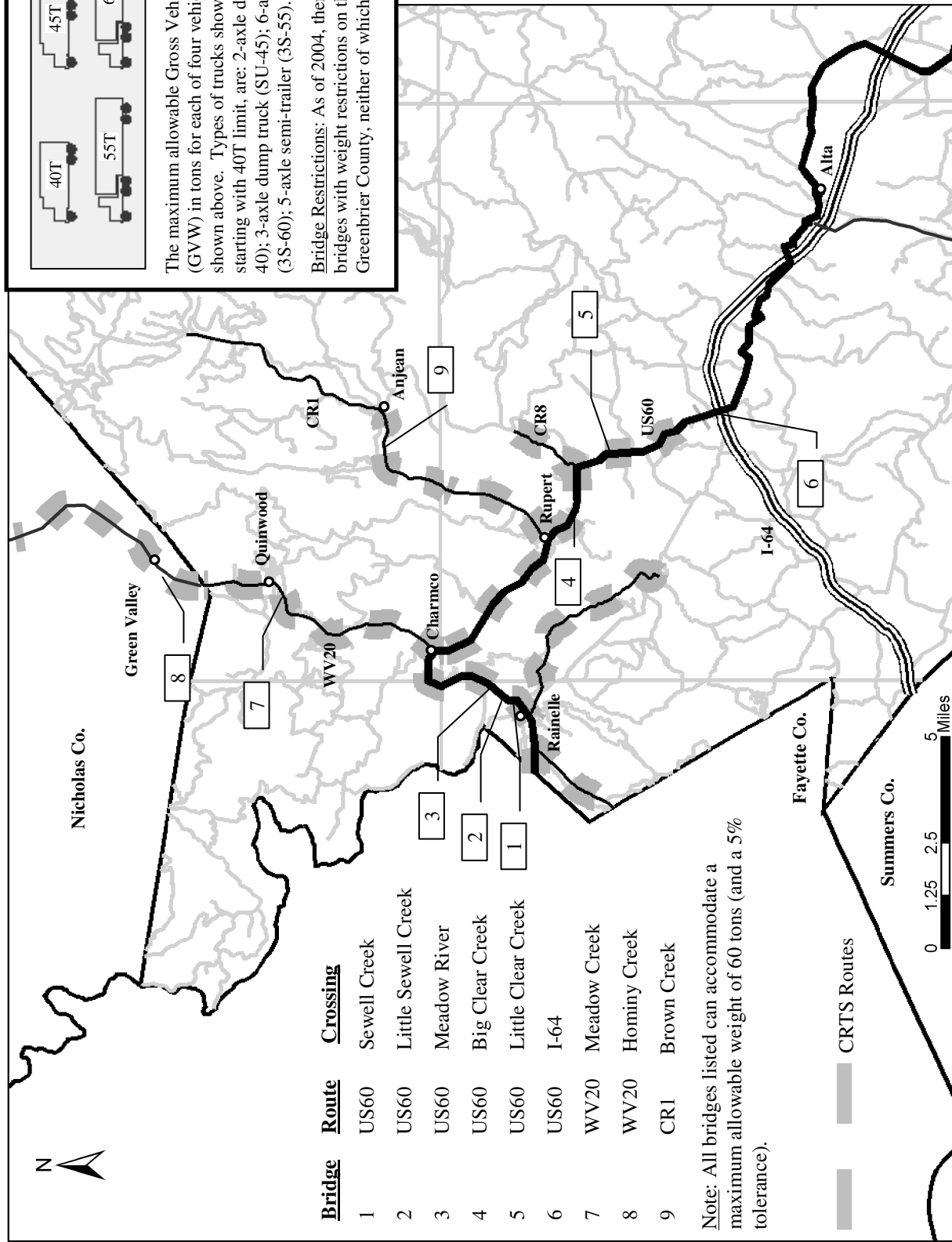
Regional Transportation System, Greenbrier County, WV

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The maximum allowable Gross Vehicle Weight (GVW) in tons for each of four vehicle types is shown above. Types of trucks shown, clockwise starting with 40T limit, are: 2-axle dump truck (SU-40); 3-axle dump truck (SU-45); 6-axle semi-trailer (3S-60); 5-axle semi-trailer (3S-55).

Bridge Restrictions: As of 2004, there are only two bridges with weight restrictions on the CRTS in Greenbrier County, neither of which is on US60.

Figure 3.13-2.
Coal Resource Transportation System (CRTS) Along Project Routes

Source: WVDOH, 2005b

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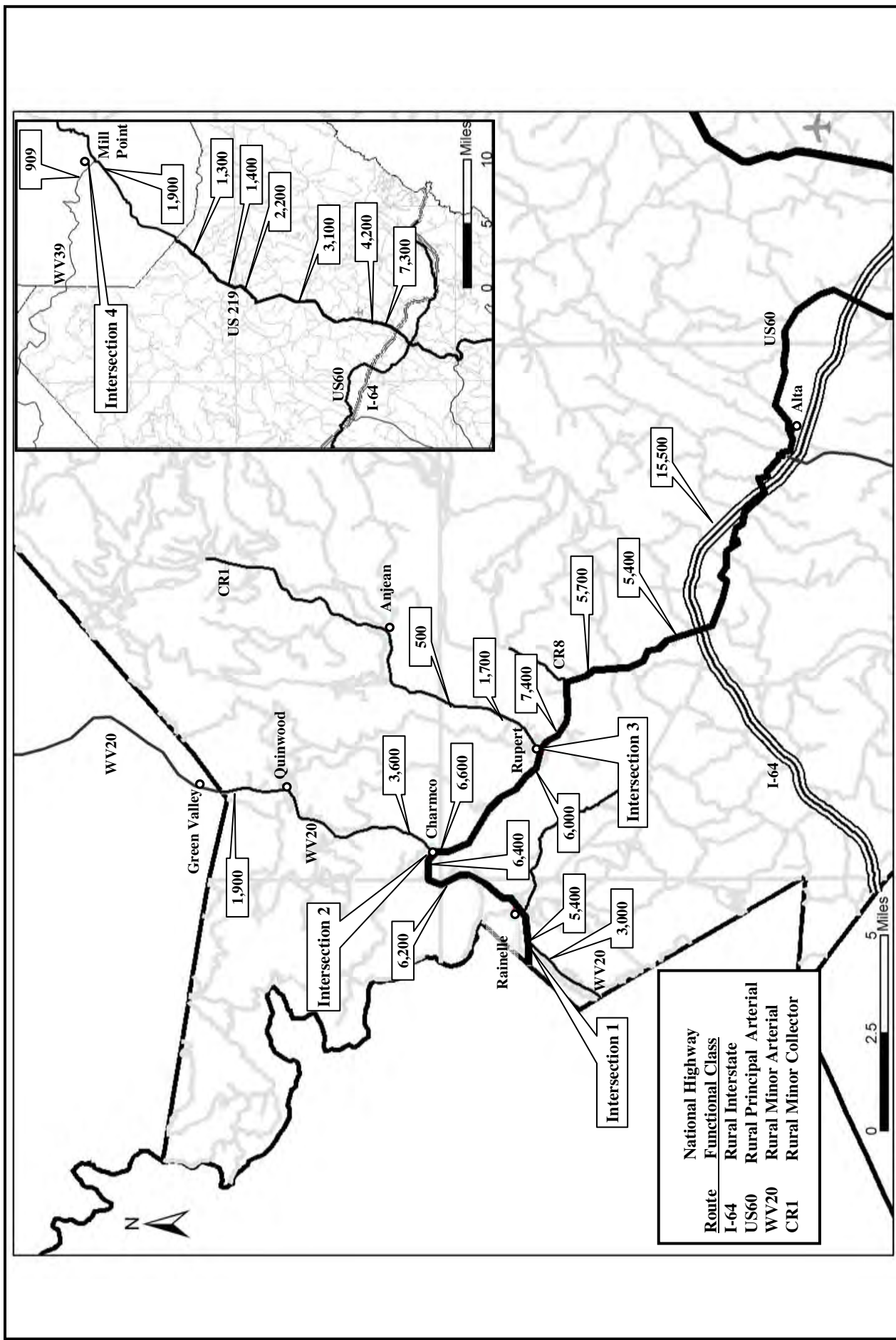


Figure 3.13-3.
WV DOT's 2003 Average Daily Traffic (ADT)
for US60 in Greenbrier County, WV
Source: WVDOH, 2003a

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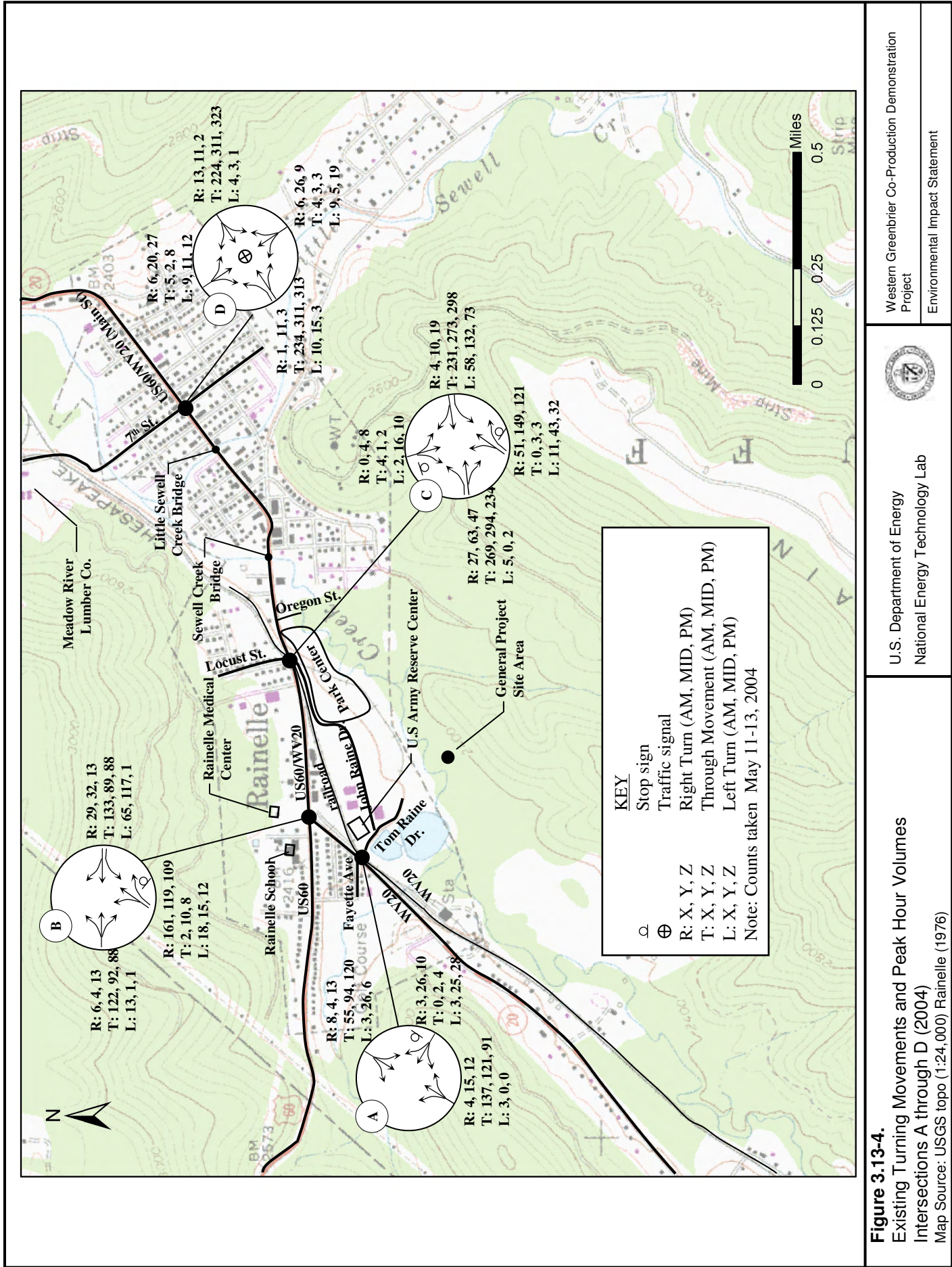


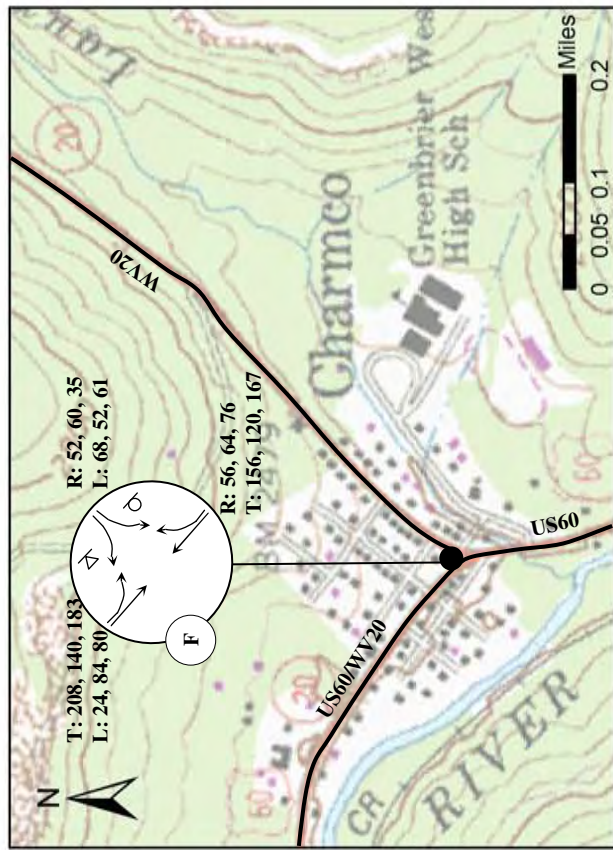
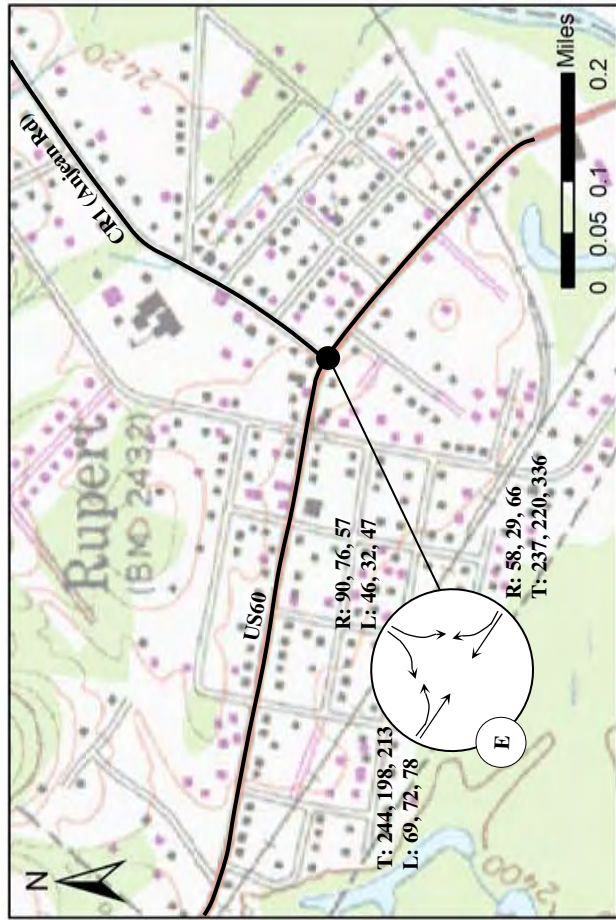
Figure 3.13-4.

Existing Turning Movements and Peak Hour Volumes
Intersections A through D (2004)
Map Source: USGS topo (1:24,000) Rainelle (1976)

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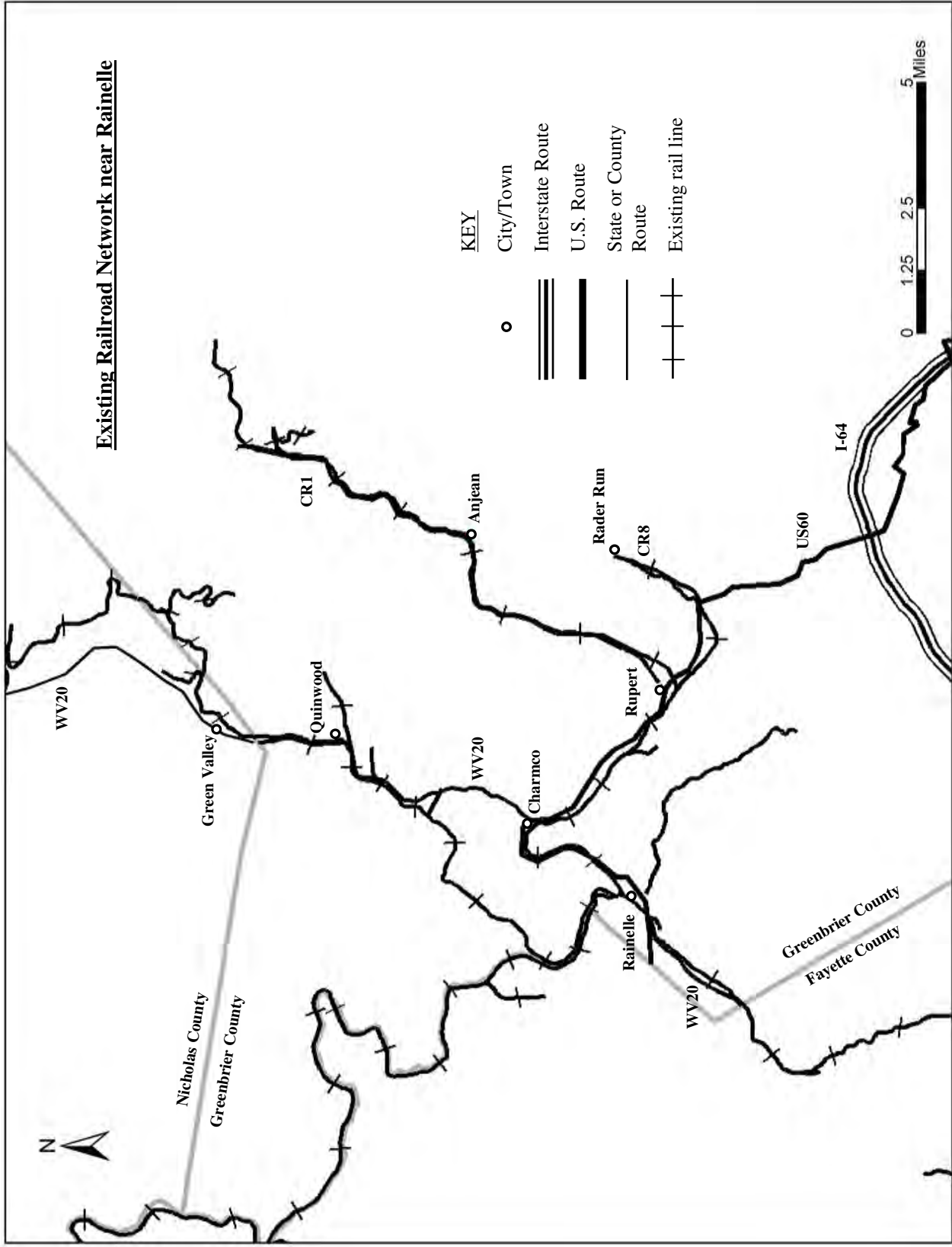
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KEY	
	Stop sign
	Yield sign
R: X, Y, Z	Right Turn (AM, MID, PM)
T: X, Y, Z	Through Movement (AM, MID, PM)
L: X, Y, Z	Left Turn (AM, MID, PM)
Note: Counts taken for E and F taken May 2004 and October 2004, respectively.	

Figure 3.13-5.
Existing Turning Movements and Peak Hour Volumes
for Study Intersections E and F (2004)
Map Source: USGS topo (1:24,000) Rainelle (1976), Quinwood (1981), Rupert (1981)

Existing Railroad Network near Rainelle



- KEY**
- City/Town
 - ≡ Interstate Route
 - U.S. Route
 - State or County Route
 - + Existing rail line

Figure 3.13-6.
Existing Rail System near Rainelle, 2004

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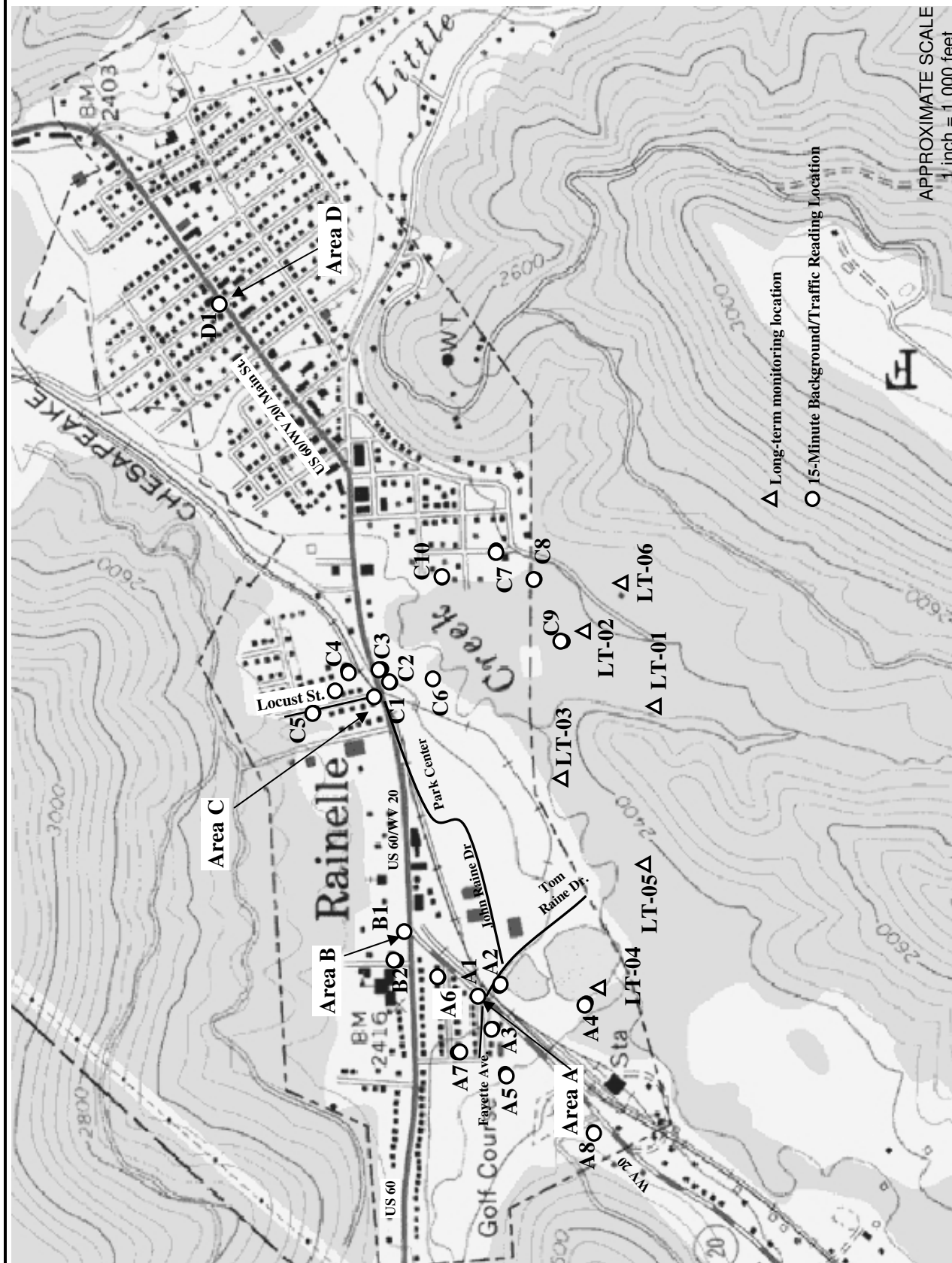


Figure 3.15-1.
 Noise Monitoring Locations – A through D and
 Long-Term (LT)
 Map Source: USGS Topo (1:24,000) Rainelle (1976)

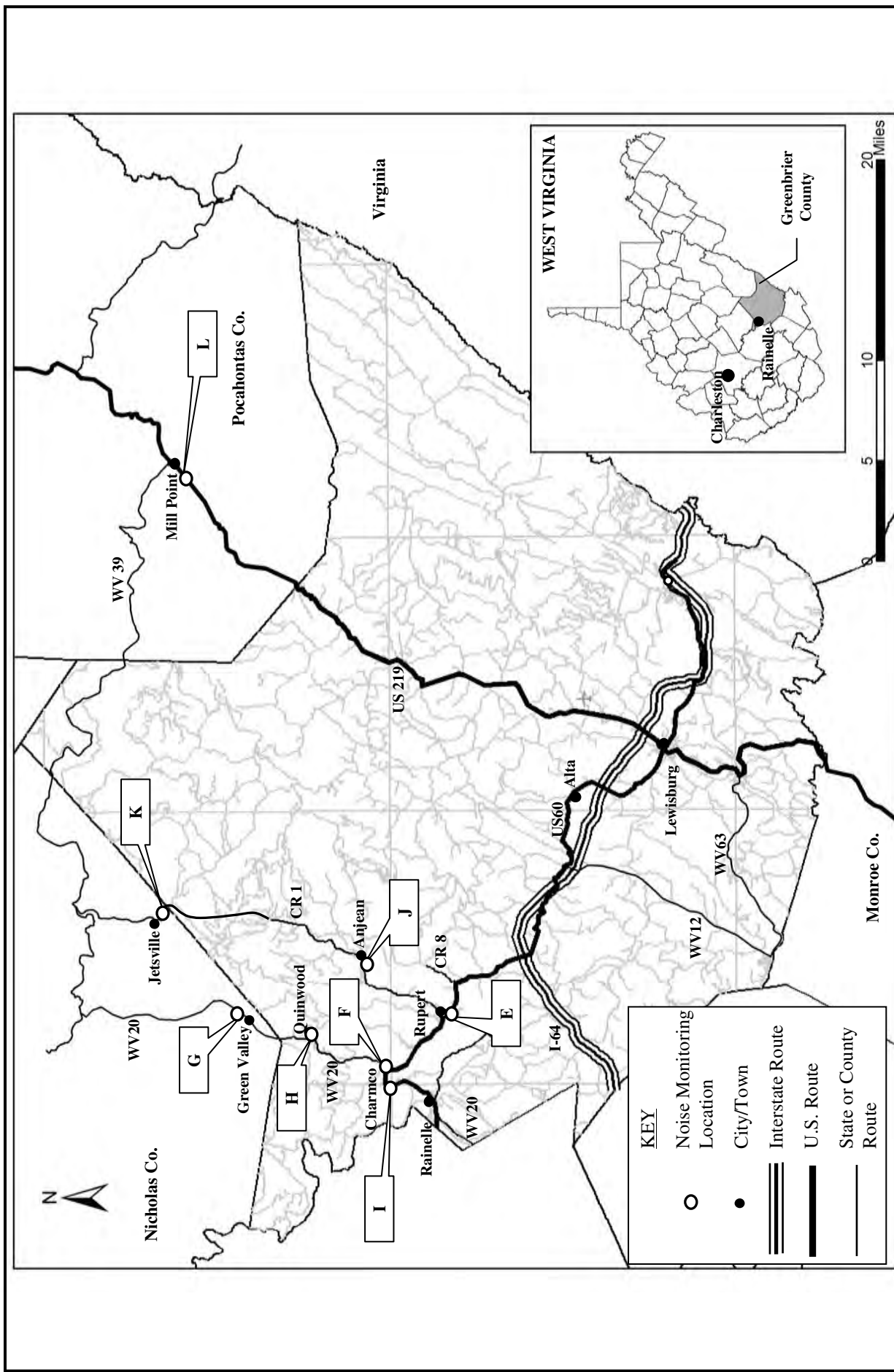


Figure 3.15-2
 Noise Monitoring Locations – Areas E through L
 Map Source: USGS, 1976



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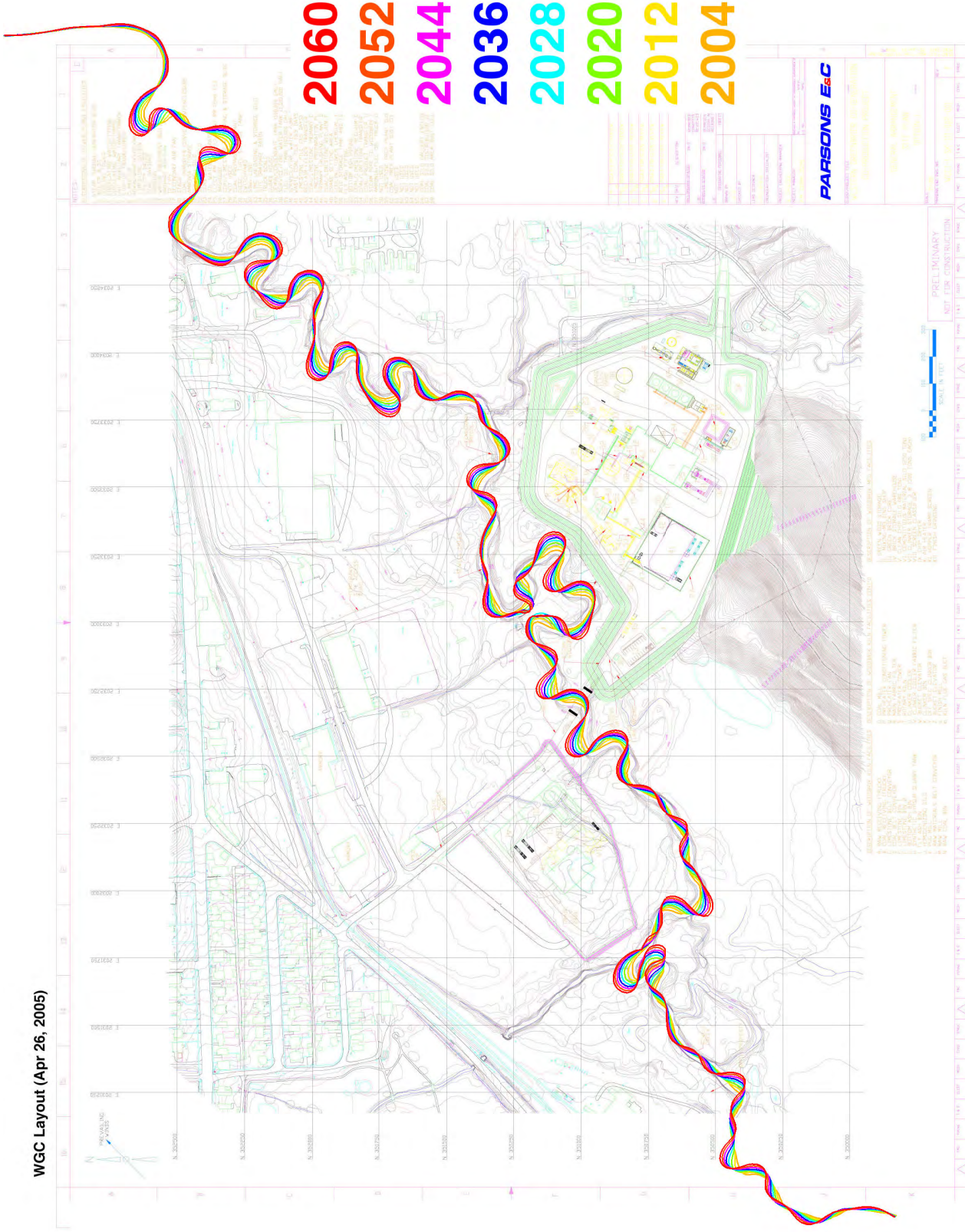


Figure 4.4-3.
Sewell Creek Meander Prediction
Source: Edwards, 2005

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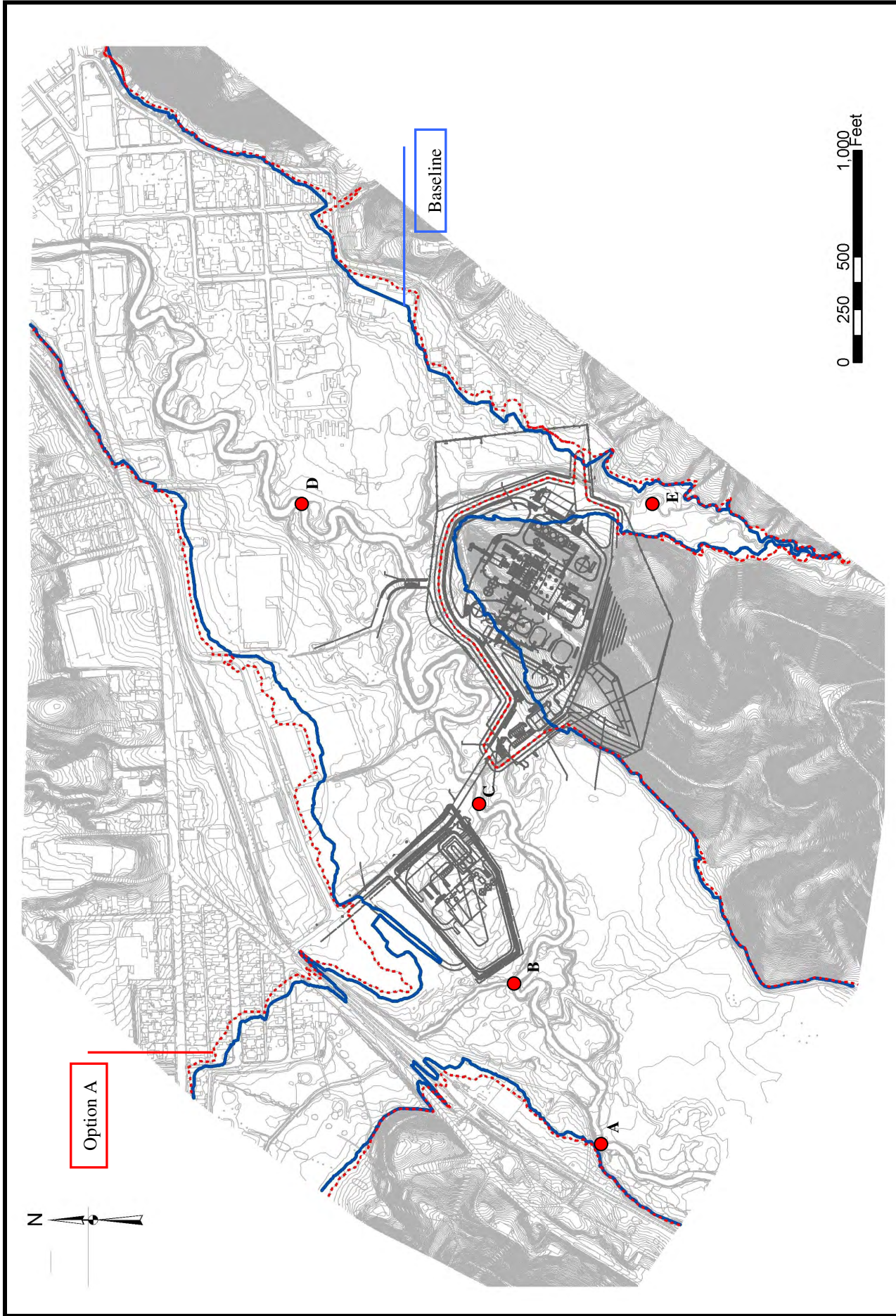


Figure 4.5-1
Predicted 100-year flood level (Option A)
Map source: Postesta, 2004; Site Layout: Parsons E&C, 2005

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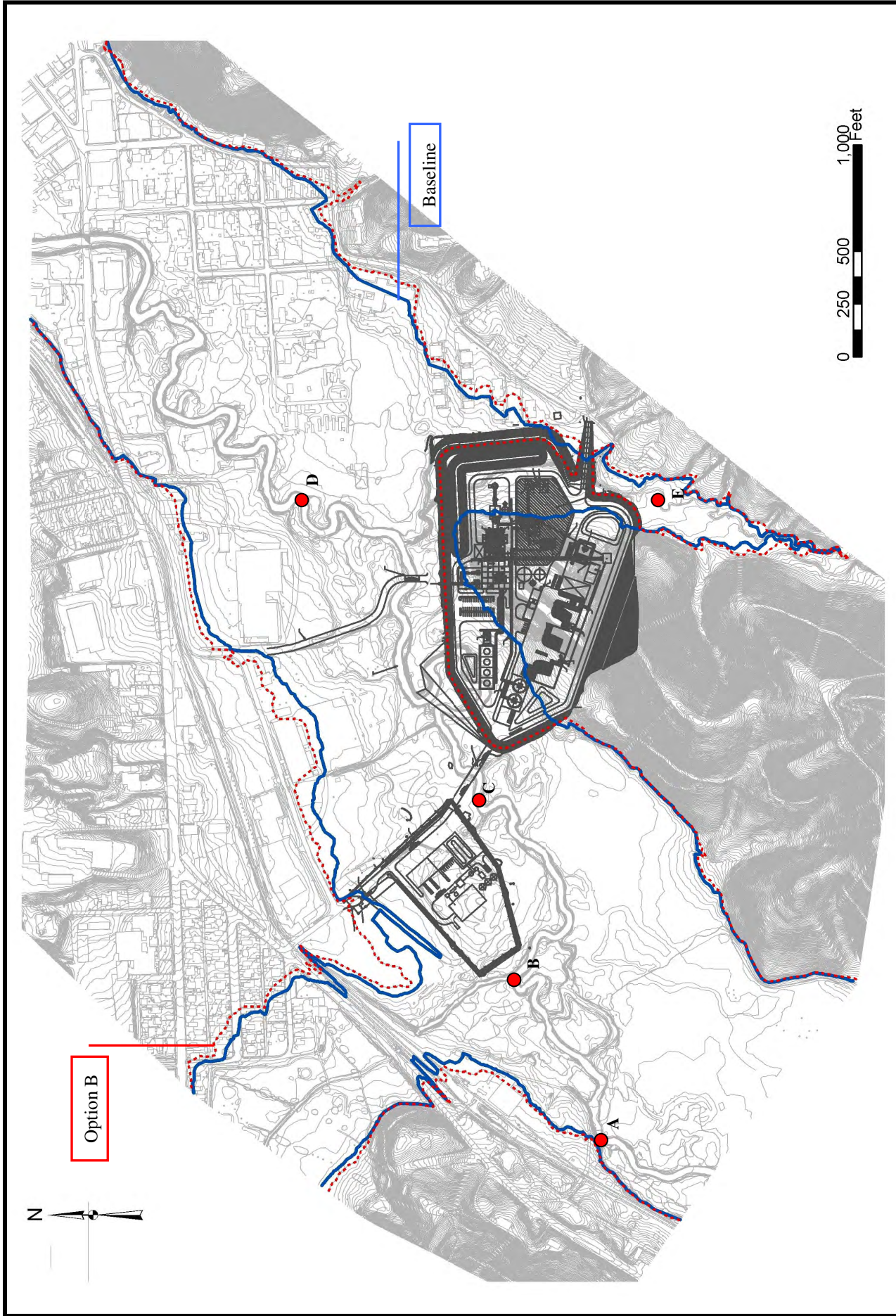


Figure 4.5-2
 Predicted 100-year flood level (Option B)
 Map source: Postesta, 2004; Site Layout: Parsons, 2004



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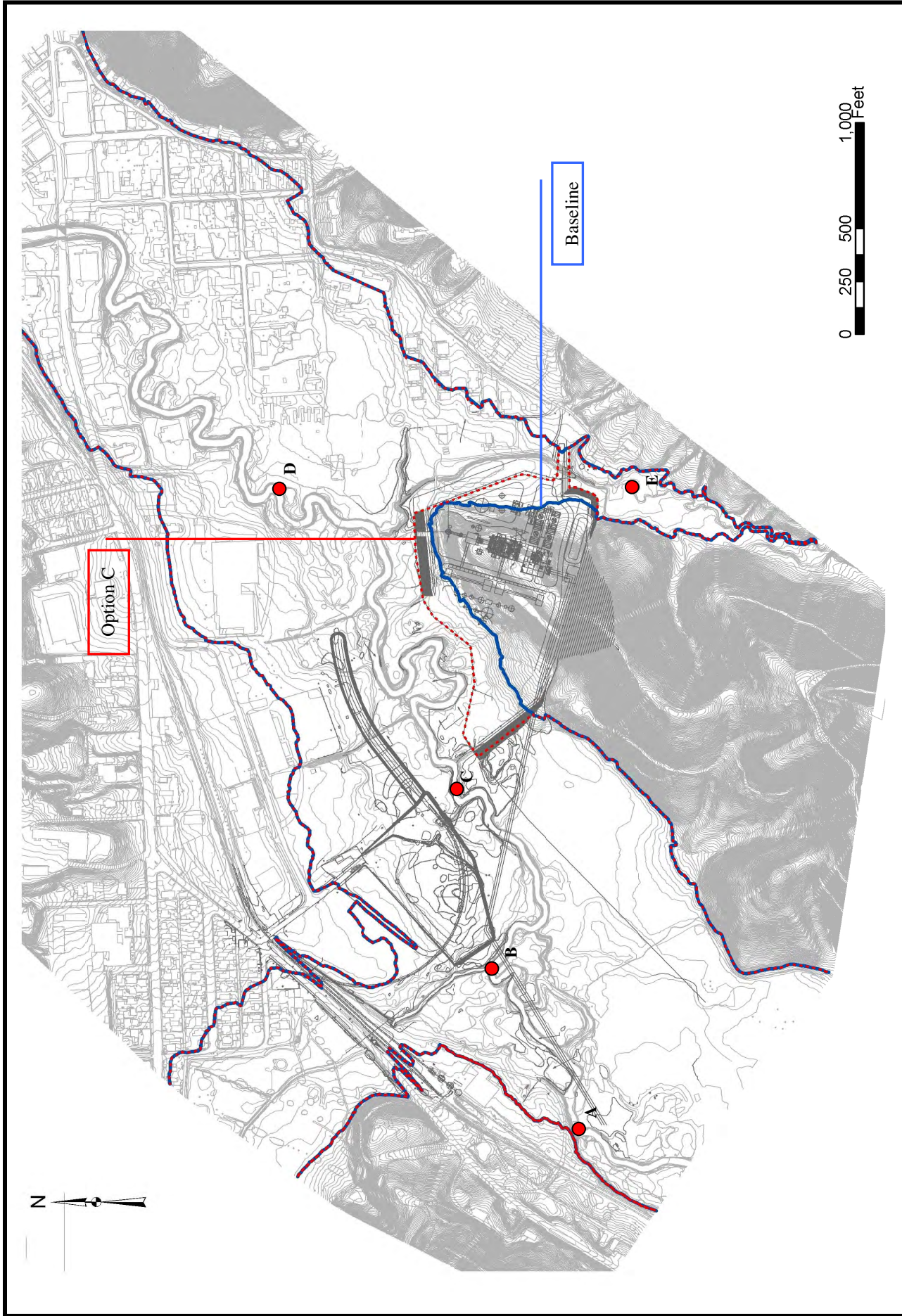


Figure 4.5-3
Predicted 100-year flood level (Option C)
Map source: Postesta, 2004; Site Layout: Parsons, 2004



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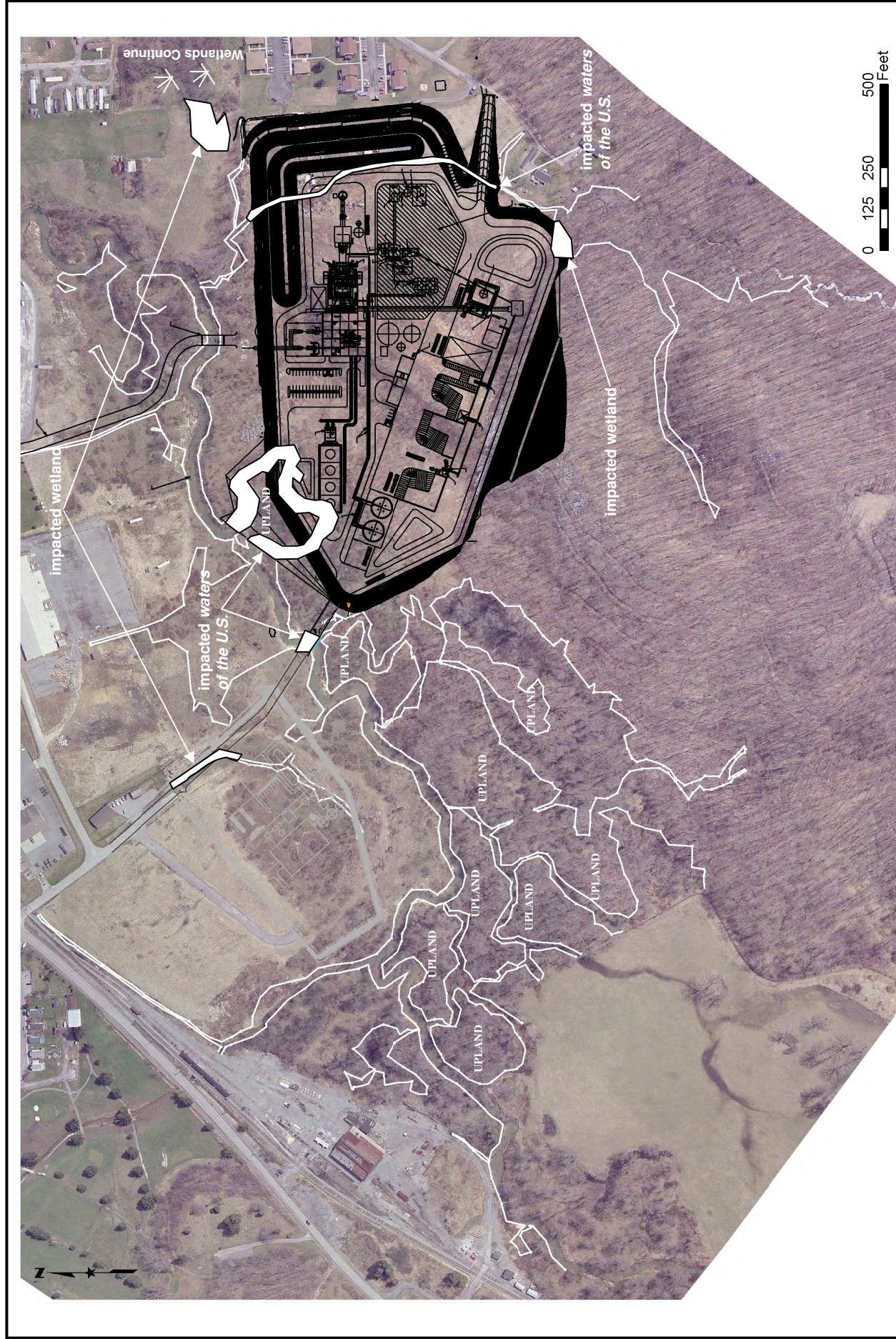


Figure 4.7-2
Jurisdictional Wetlands Boundaries (Option B)

Map Source: Photo Science, 2004; Site Layout: Parsons, 2004

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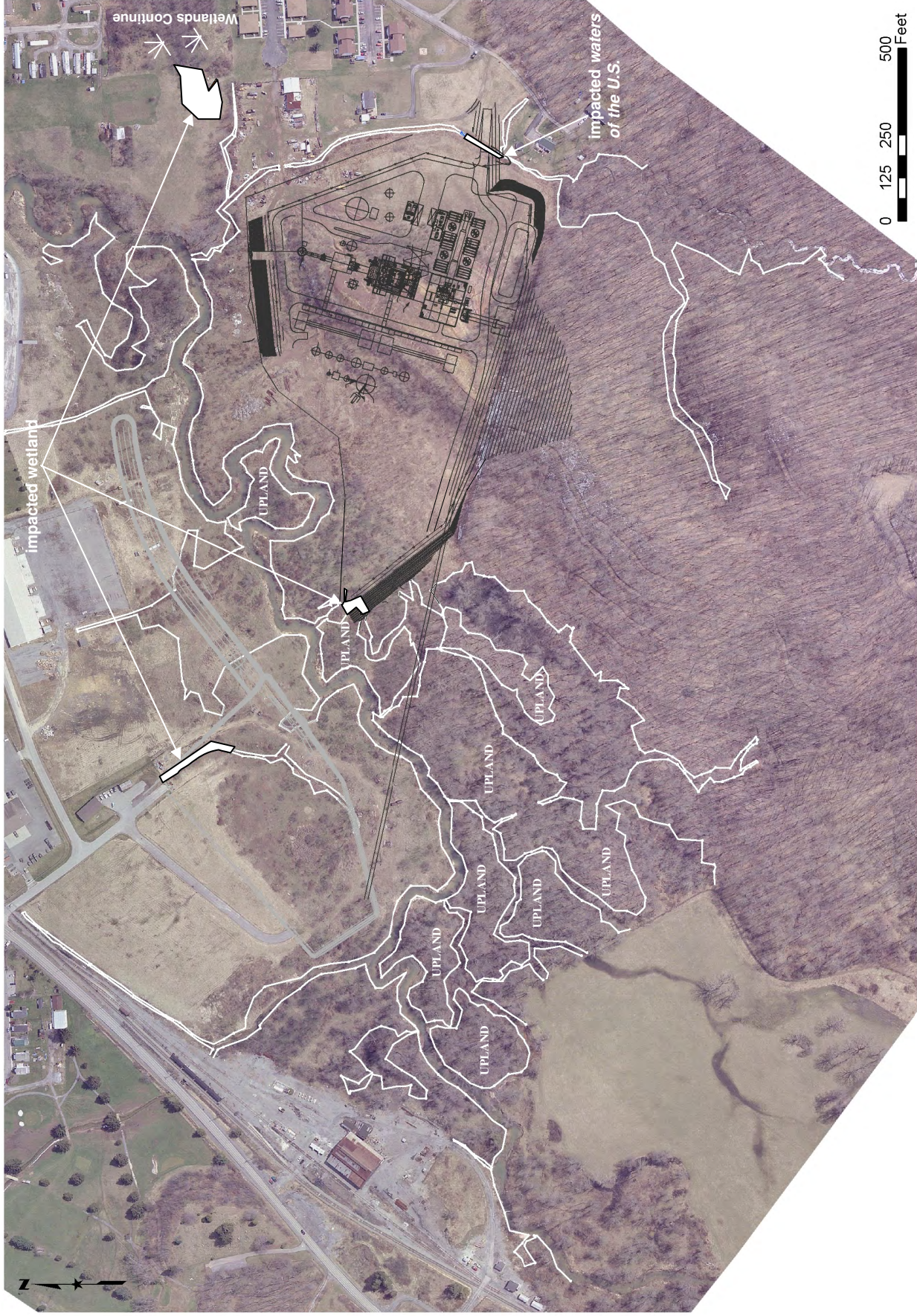


Figure 4.7-3
Jurisdictional Wetlands Boundaries (Option C)

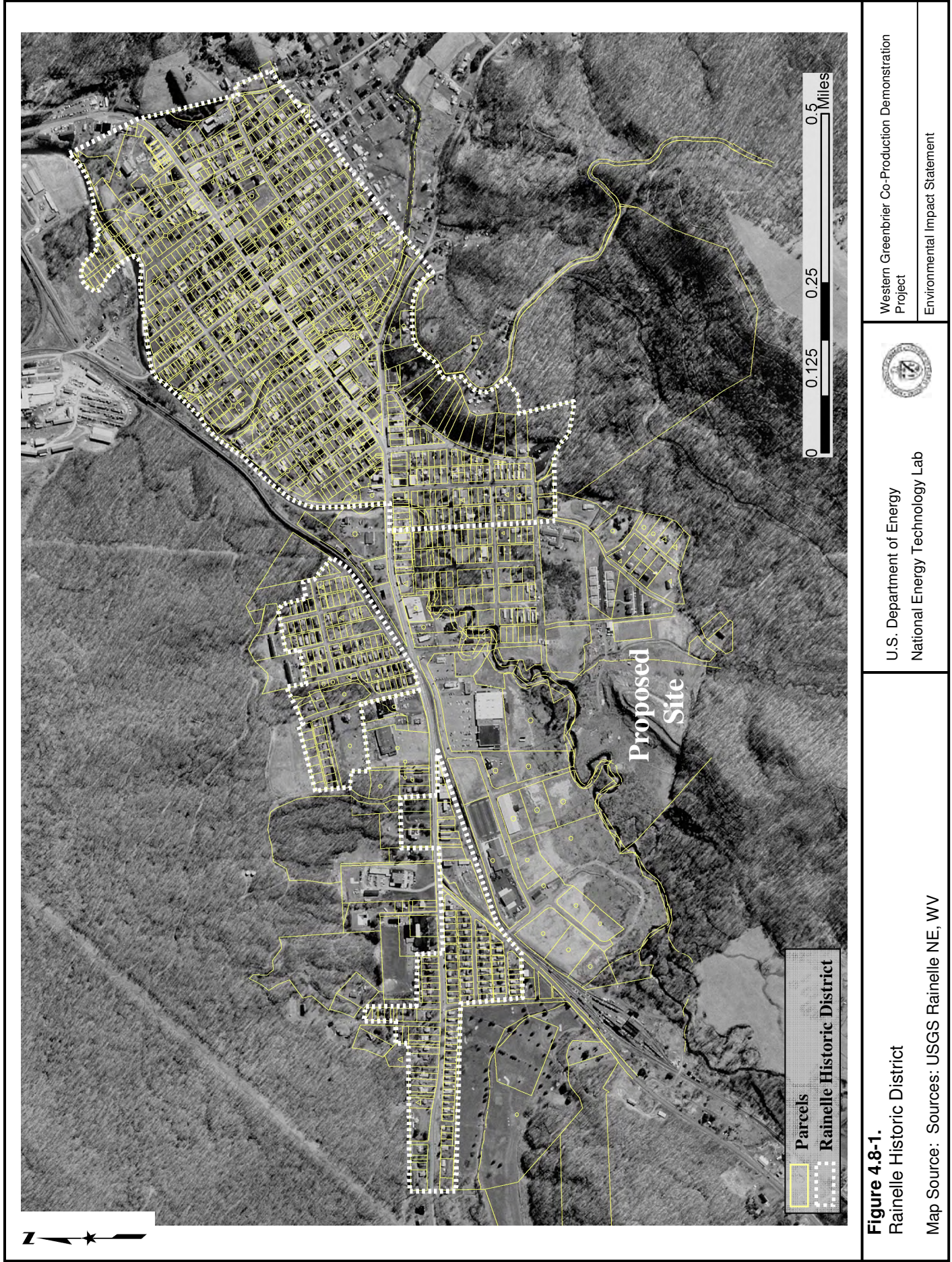
Map Source: Photo Science, 2004; Site Layout: Parsons, 2004

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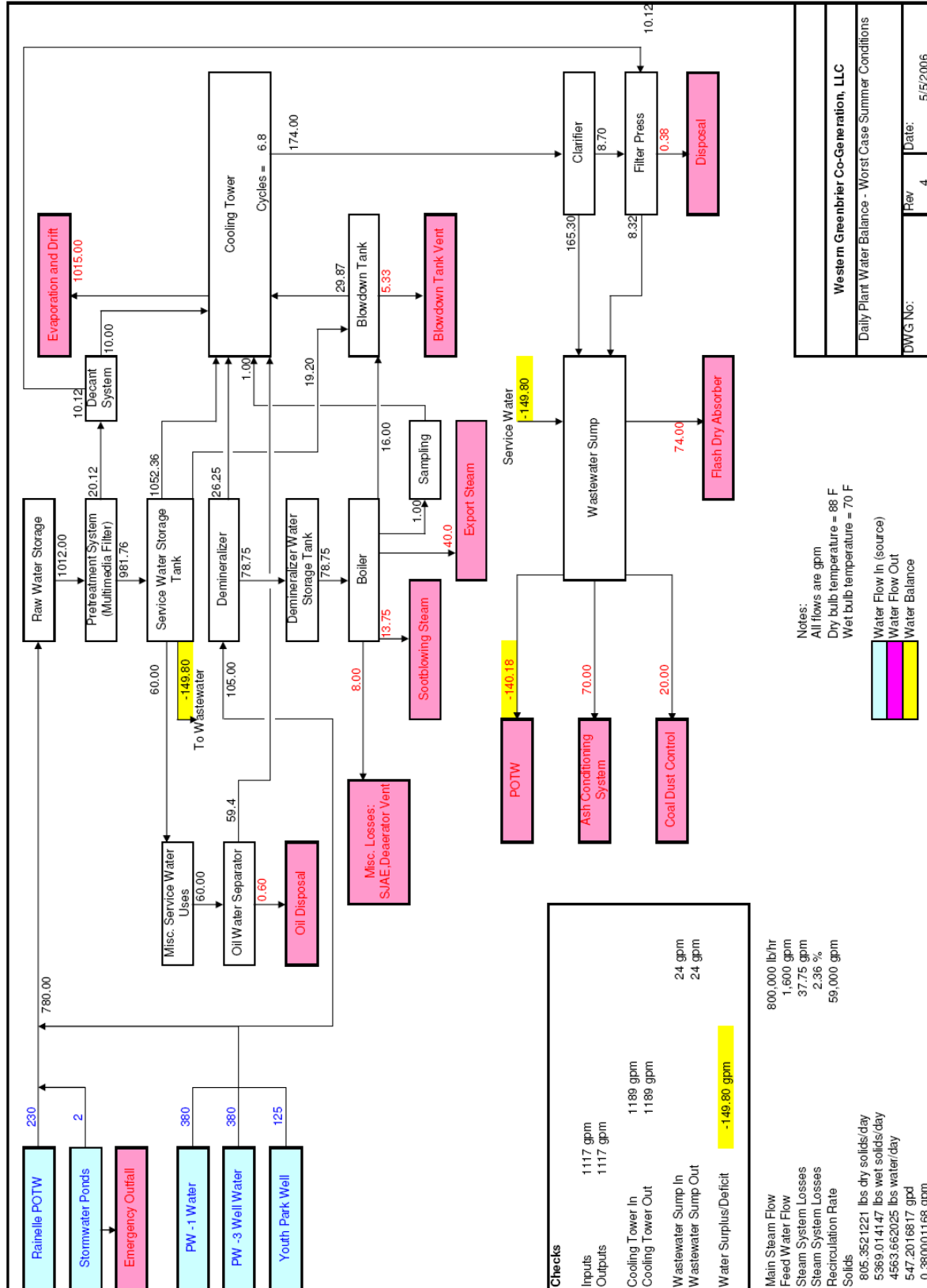


Figure 4.12-2 – Water Supply Requirements for Co-Production Facility Operations During Worst-Case Conditions (Summer)

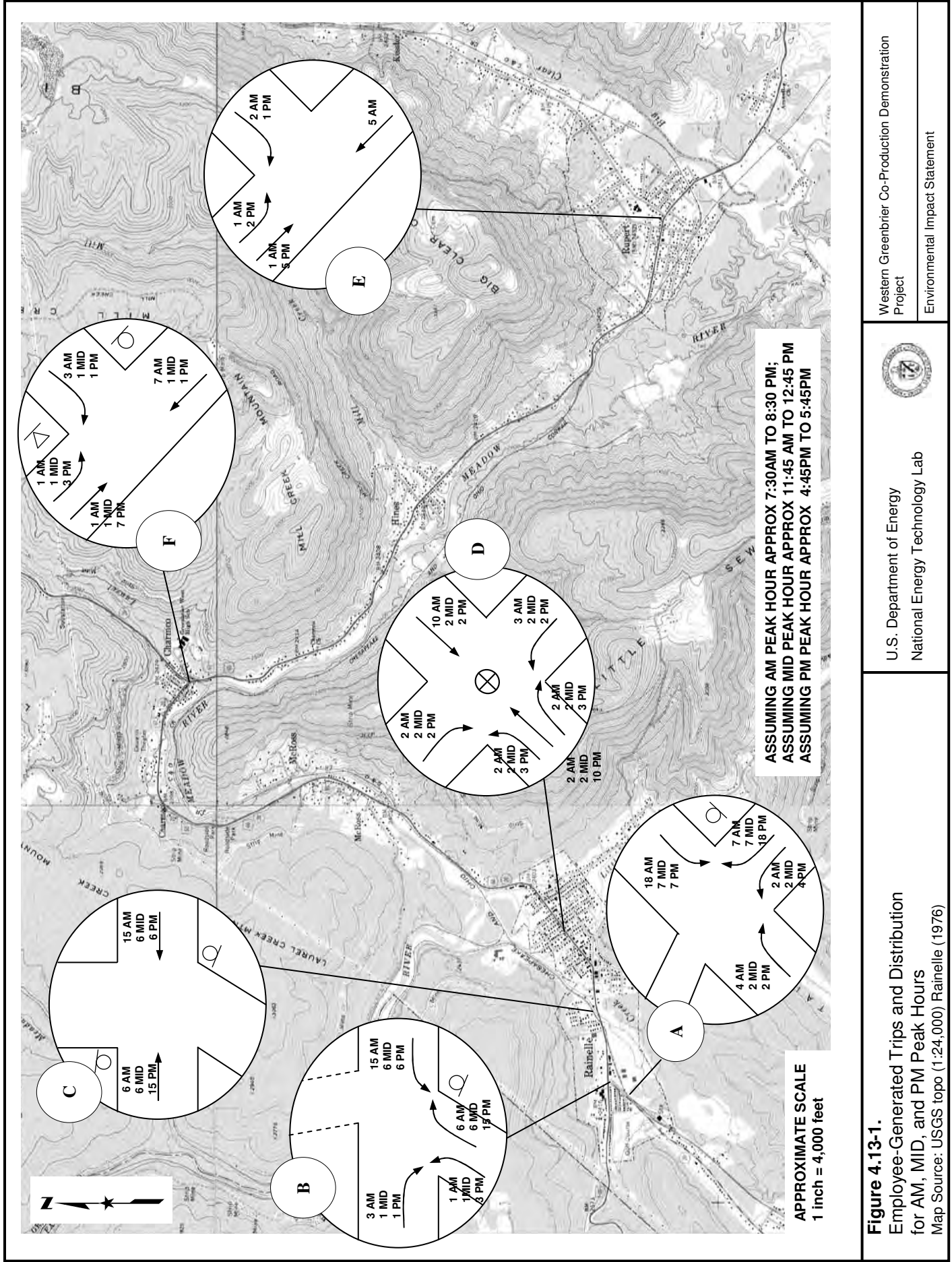


Figure 4.13-1.
Employee-Generated Trips and Distribution
for AM, MID, and PM Peak Hours
Map Source: USGS topo (1:24,000) Rainelle (1976)



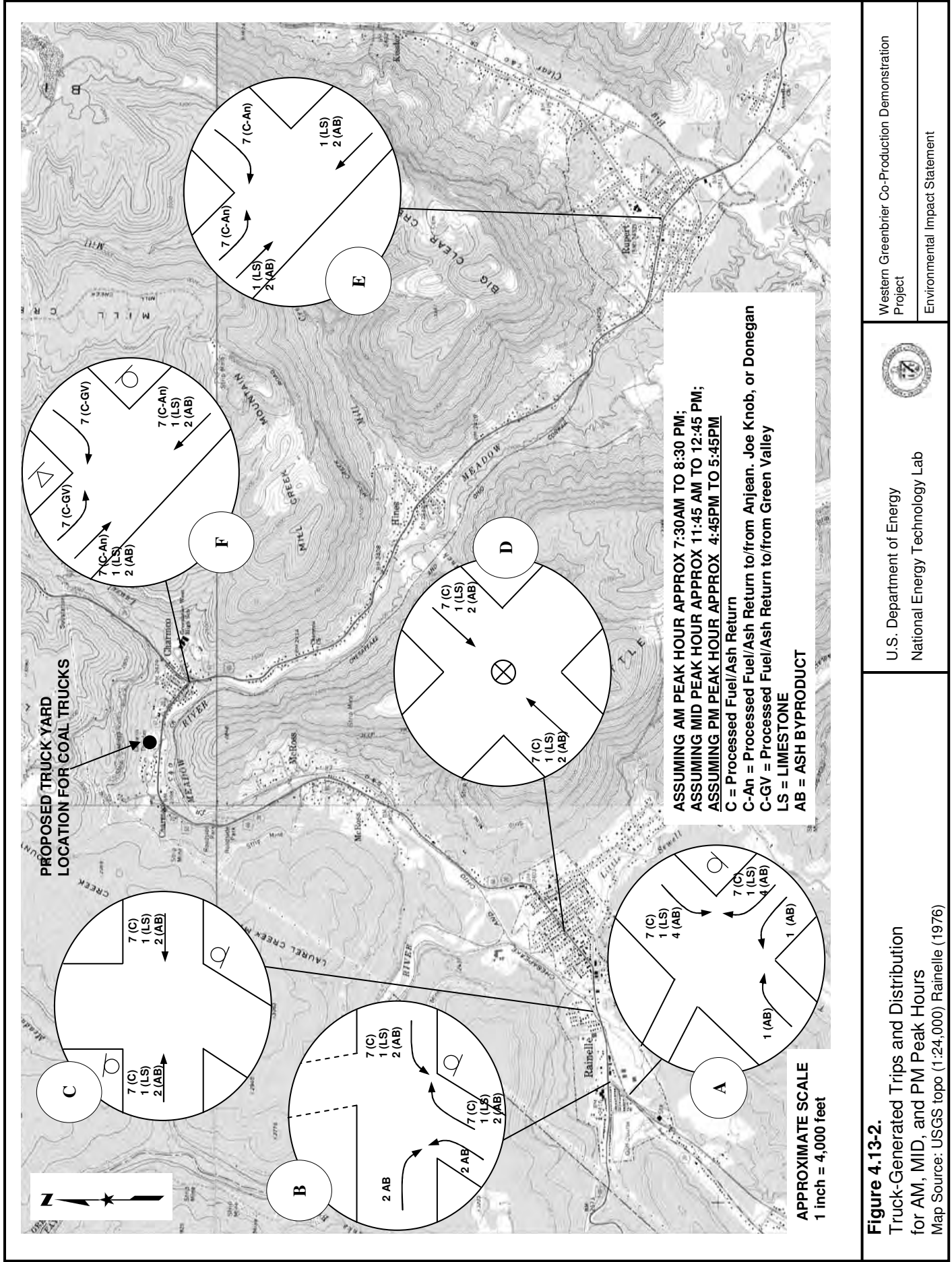


Figure 4.13-2.

Truck-Generated Trips and Distribution
 for AM, MID, and PM Peak Hours
 Map Source: USGS topo (1:24,000) Rainelle (1976)

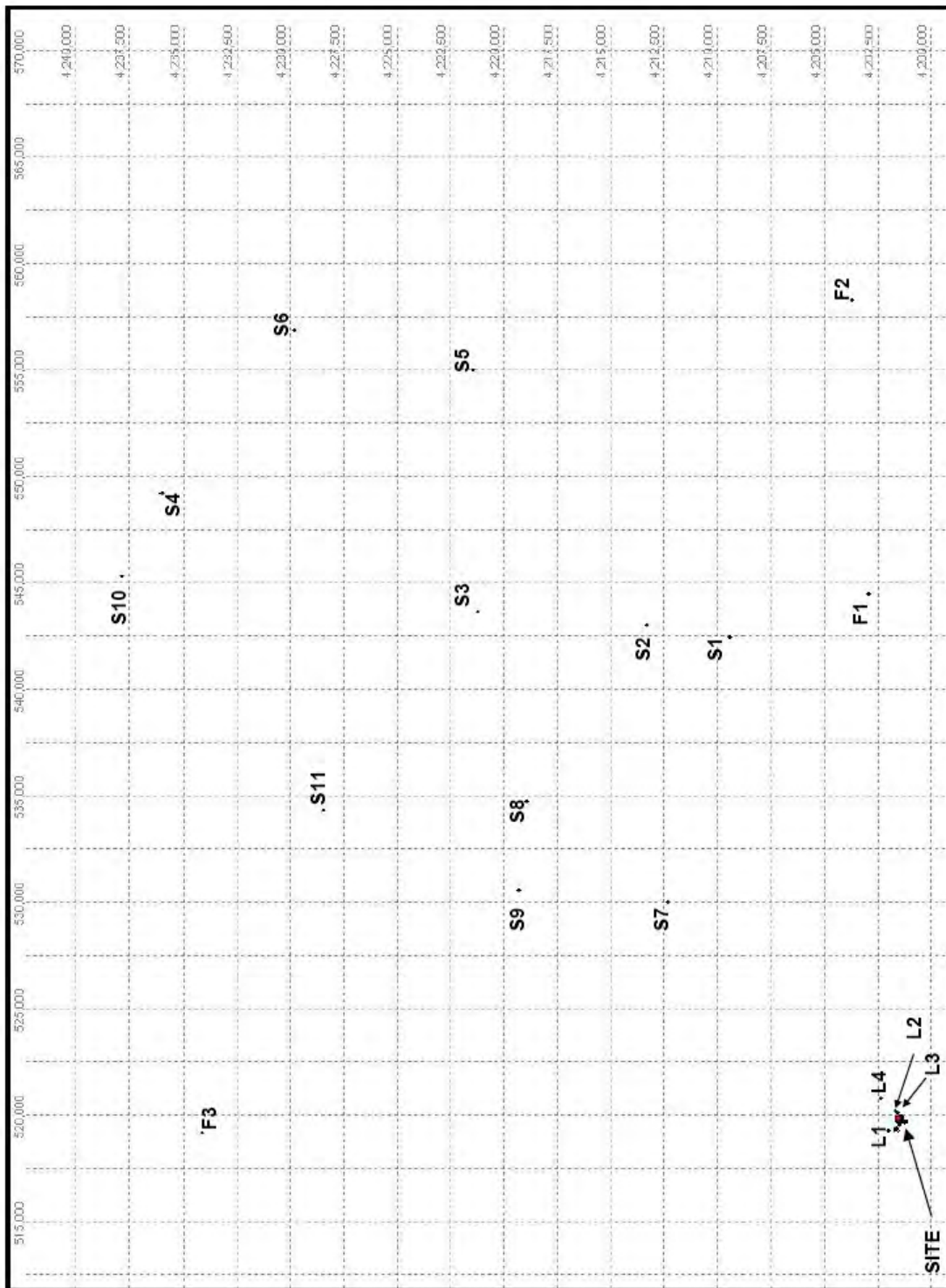


Figure 4.14-1. Relative Location of Receptor Points

