LAND RECLAMATION COMMISSION

STATE OF MISSOURI
P.O. BOX 176
JEFFERSON CITY, MISSOURI 65102
573-751-4041

Permit to Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

CENTRAL STONE COMPANY

Pursuant to "The Land Reclamation Act," RSMo, 2001, and on conformity with the statements in the application, a permit is hereby granted to engage in surface mining of limestone, sand & gravel in the state of Missouri. The extent of the proposed mining operation(s) will be on 952 acres, more or less. The locations of the operation(s) under this permit is/are as follows: Renewal

See Attached List

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this 28th day of July 2004

DIRECTOR OF STAFF
Land Reclamation Commission

Permit No 0028
Effective Date 07/28/2004
Expiration Date 12/31/2004

MO 780-1122 (6-95)

Company Name CENTRAL STONE COMPANY

Permit Number 0028 Expiration Date – 12/31/2004

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Ralls	16, 17	56N	06W	226	0	226	CS01 Huntington	0035
Shelby	03	58N	10W	20	0	20	CS02 Bethel	0027
Monroe	27	54N	10W	18	0	18	CS04 Paris	0030
Ralls	24	56N	05W	70	0	70	CS06 New London	0029
Marion	01, 02	59N	06W	76	0	76	CS11 West Quincy	0034
Ralls	28	56N	03W	25	0	25	CS30 Saverton	0032
St. Louis	09	47N	07E	34	0	34	CS31 Fort Bellfontaine	0031
Marion	24	59N	06W	22	0	22	CS39 Taylor	0036
Pike	29	54N	03W	26	0	26	CS12 Bowling Green	0033
Pike	13	53N	05W	13	0	13	CS07 Curryville	0028
St. Francois	24	35N	05E	115	0	115	CS54 St. Francois	0474
Jefferson	20, 21	42N	05E	150	0	150	CS56 Antonia	0477
St. Louis	09, 17	47N	07E	117	0	117	CS55 North Quarry	0476
Lincoln	17, 18, USS1733	48N	01E	40	0	40	CS57 Moscow Mills	0710

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MISSOURI LAND RECLAMATION COMMISSION

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL			DATE
Central Stone Company			04/16/04
ADDRESS	CITY	STATE	ZIP
1701 5th Avenue	Moline	Illinois	61265
CONTACT PERSON		TELEPHONE NUMBER	
Gerard Gregg		309.757.0522	

FEES: COMPLETE SECTION I OR SECTION II

SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year.	For sites operated less than six months per permit year pay $150 For sites operated six months or more per permit year pay $300
1. Huntington Quarry CS01	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
2. Bethel Quarry CS02	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
3. Paris Quarry CS04	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
4. New London Quarry CS06	~~, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
5. Curryville Quarry CS07	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
6. West Quincy S&G CS11	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
7. Bowling Green Quarry CS12	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
8. Saverton Quarry CS30	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
9. Ft. Belle Quarry CS31	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
10. Taylor Quarry CS39	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
TOTAL SITE FEE →		$ Continued on Sheet 2 of 2

2. Acreage Fee $5 X _____ number of acres bonded ..... $ Continued on Sheet 2 of 2

3. Annual Permit Fee..... $ 500

4. Total Fee (Add totals from 1, 2, and 3) ..... $ Continued on Sheet 2 of 2
NOTE: If Total Fee exceeds $2500.00 then pay only ..... $ 2,500

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

3. Annual Permit Fee..... $ 300

SIGNATURE OF APPLICANT	TITLE	DATE
Gerard J. Gregg	Manager Environmental Services	04/16/2004

Appeared before be this 16th day of April, 20 04, Gerard J. Gregg to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSER SEAL

STATE OF Illinois

SUBSCRIBED AND SWORN BEFORE ME, THIS 16th DAY OF April YEAR 2004

NOTARY PUBLIC SIGNATURE: Stephen E Clausen

MY COMISSION EXPIRES: 07/24/2006

NOTARY PUBLIC NAME (TYPED OR PRINTED): Stephen E. Clausen

USE RUBBER STAMP IN CLEAR AREA BELOW

OFFICIAL SEAL
STEPHEN E. CLAUSEN
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES 7-24-2006

FOR DEPARTMENT USE ONLY: APPROVED BY	DATE APPROVED	PERMIT NUMBER	EXPIRATION DATE
[illegible]	7-19-04	0028	12-31-04

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MISSOURI LAND RECLAMATION COMMISSION

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL			DATE
Central Stone Company			04/16/04
ADDRESS: 1701 5th Avenue	CITY: Moline	STATE: Illinois	ZIP: 61265
CONTACT PERSON: Gerard Gregg		TELEPHONE NUMBER: 309.757.0522	

FEES: COMPLETE SECTION I OR SECTION II

SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year.	For sites operated less than six months per permit year pay $150 For sites operated six months or more per permit year pay $300
1. St. Francois Quarry CS54	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
2. North Quarry CS55	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
3. Antonia Quarry CS56	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
4. Moscow Mills Quarry CS57	~~Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec~~	$ 300.00
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec	$
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec	$
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec	$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec	$
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec	$
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec	$
TOTAL SITE FEE →		$ 4200.00

2. Acreage Fee $5 X 950 ~~52~~ number of acres bonded ..... $ ~~4750.00~~ 4760

3. Annual Permit Fee ..... $ 500

4. Total Fee (Add totals from 1, 2, and 3) ..... $ ~~9450.00~~ 9460
NOTE: If Total Fee exceeds $2500.00 then pay only ..... $ 2,500

SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

3. Annual Permit Fee ..... $ 300

SIGNATURE OF APPLICANT	TITLE	DATE
Gerard J. Gregg	Manager Environmental Services	04/16/2004

Appeared before be this 16th day of April, 20 04, Gerard J. Gregg to me personally known, who executed the above as their free acts and deeds.

NOTARY PUBLIC EMBOSSER SEAL	STATE OF: Illinois	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 16th DAY OF April YEAR 2004	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Stephen E Clausen	MY COMISSION EXPIRES: 07/24/2006
	NOTARY PUBLIC NAME (TYPED OR PRINTED): Stephen E. Clausen	OFFICIAL SEAL STEPHEN E. CLAUSEN NOTARY PUBLIC - STATE OF ILLINOIS MY COMMISSION EXPIRES 7-24-2006

FOR DEPARTMENT USE ONLY: APPROVED BY	DATE APPROVED	PERMIT NUMBER	EXPIRATION DATE
[illegible]	9-17-04	0028	12-31-04

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

SITE INFORMATION FORM

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MISSOURI LAND RECLAMATION COMMISSION

To be completed for each seperate area of disturbance with mining operations

SITE NAME OR NUMBER: Antonia Quarry CS56	PERMIT NUMBER: 0028
COMPANY NAME: Central Stone Compa	

COUNTY	1/4 SECTION	SECTION(S)
Jefferson		20 & 21
TOWNSHIP	**RANGE**	**ACRES**
42N	5E	206

RIVER OR STREAM NAME (FOR IN-STREAM ACRES): N/A

MINERAL COMMODITY	ESTIMATED TONS/YEAR (FOR GRAVEL SITES)
Limestone	N/A

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE): Knox County Stone Company, Inc.

ADDRESS: 1701 5th Avenue

CITY	STATE	ZIP CODE
Moline	IL	61265

SOURCE OF RIGHT TO MINE (CHECK ONE) — DATE OF AGREEMENT: 11/5/01

- [ ] MINERAL DEED
- [ ] LEASE
- [x] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [ ] OTHER (DESCRIBE):

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE): Same as above

ADDRESS:

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE) — DATE OF AGREEMENT:

- [ ] MINERAL DEED
- [ ] LEASE
- [ ] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [ ] OTHER (DESCRIBE):

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

Central Stone - Antonia Quarry CS56
P.O. BOX 176
Jefferson City, MO 65102

TYPE OF PLAN (CHECK ONE)

[ ] SHORT TERM, FOR ONE PERMIT YEAR

[X] LONG TERM, FOR PERIOD THROUGH DATE: **6/1/40**

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

General topography is hills with rock outcrops. Area was generally covered with native tree, shrub species, and ground vegetation adatable to the original hilly terrain.

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MAR 5 2002
MINE PLAN
LAND RECLAMATION COMMISSION

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
0" TO 1"	[X] YES OR [ ] NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Standard earthmoving equipment will remove the topsoil.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Standard earthmoving equipment will place topsoil in berms which will be used for either sight and/or sound attenuation features or stockpiled for future reclamation.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

All overburden removed from the pit will be placed in stockpiles (see map). The grading and seeding will be done to meet the performance requirements of Missouri 10 CSR 40 10.050. Grading and seeding will be done continuously as the stockpiles are being built.

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MISSOURI MINE
DELINEATION COMMISSION

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE ANTICIPATED, WRITE "NONE" BELOW)

None

PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

Pit will continue expanding to the south. See detail map. Please note that the highway department acquired land within 50' of the pit by eminent domain for their right-of-way after the pit was already in place. A protective berm of rocks is already in place along the north property line adjacent to the right-of-way and a fence is also being erected. The excavation will be sloped to a grade of less than 40 degrees.

YES	NO	
[X]	[ ]	Will any excavation be at or within fifty feet (50) of the right-of-way of any public road?
[X]	[ ]	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right-of-way, and in no case may the excavation be closer to the right-of-way than fifty feet or twenty-five plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
[X]	[ ]	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #	PURPOSE / LAND USE	B. SEEDING OR PLANTING TIME
1	Industrial	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Areas, identified within the industrial/commercial zoning as approved by the Jefferson County Planning and Zoning Commission Planned Use Development, with stockpiled overburden and/or topsoil will be left in place or configured to maximize post mining uses. After Overburden replacement and grading are complete, where necessary, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or all of the following: Broadcast, Drilling, and/or Hydroseeding. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

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RECLAMATION COMMISSION

Cool Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Tall Fescue	10 - 15	Alfalfa	15 - 20
Ryegrass	10 - 15	Red Clover	5 - 10
Orchardgrass	8 - 10	Lespedeza	15 - 20
Bromegrass	6 - 8	Crownvetch	15 - 20
Timothy	4 - 6		

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
2	Wildlife	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

No less than 75% of the areas to be left as wildlife habitat will be graded to traverseable for farm equipment. Up to 25% of said wildlife area will not be graded to allow for diverse habitat. After overburden replacement and grading are complete, where necessary, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or all of the following: Broadcast, Drilling, and/or Hydroseeding. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Warm Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Switchgrass	3 - 5	Alfalfa	5 - 10
Big Bluestem	6 - 8	Red Clover	4 - 6
Indian Grass	6 - 8	Lespedeza	5 - 10

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
3	Water Impoundments	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or any combination of the following: Broadcast, Drilling, and/or Hydroseeding. Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

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Cool Season Grasses		Warm Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Tall Fescue	20 - 24	Switchgrass	5 - 10	Alfalfa	8 - 12
Ryegrass	15 - 20	Big Bluestem	10 - 15	Red Clover	4 - 6
Bromegrass	8 - 16	Indian Grass	10 - 15	Lespedeza	8 - 12
Orchardgrass	4 - 6				
Timothy	3 - 5				

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
4	Agricultural	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or all of the following: Broadcast, Drilling, and/or Hydroseeding. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Cool Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Tall Fescue	10 - 15	Alfalfa	8 - 12
Ryegrass	8 - 12	Red Clover	4 - 6
Bromegrass	5 - 10	Lespedeza	8 - 12
Orchardgrass	4 - 6	Crownvetch	8 - 12
Timothy	3 - 5		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Adjacent to 4 lane divided highway and commercial/industrial development, good industrial location with wooded perimeters. Reclaimed area(s) above/around the perimeter of water impoundment(s) will be graded to a slope traversable by farm equipment and will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (4). Water Impoundment(s) will feature water, vertical rock faces, and will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (4). Industrial areas will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (3). Agricultural areas will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (2).

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RECLAMATION COMMISSION

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading will be done as the pit advances and spoils are placed in stockpiles. Final grading will be completed as set forth in 10 CSR 40-10.050 (10) (A).

REPLACEMENT OF TOPSOIL

Topsoil replacement, where necessary/required per reclamation standards for each category of reclamation, will be completed as set forth in 10 CSR 40-10.050 (10) (A).

REVEGETATION

Revegetation, per reclamation standards for each category of reclamation, will be completed as set forth in 10 CSR 40-10.050 (10) (B).

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12" where appropriate and/or required

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES
Wildlife (forest or other habitat with livestock excluded)	24 +/-
Agricultural (pasture, cropland, and horticultural)	43 +/-
Development (residential, industrial, and recreational)	40 +/-
Water impoundments (for wildlife, agricultural, or development)	99 +/-

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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MAR 5 2002
MISSOURI LAND RECLAMATION COMMISSION

SIGNATURE OF APPLICANT	TITLE	DATE
[signature]	Manager Environmental Services	3/1/02

NOTARY PUBLIC EMBOSSER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)
	Illinois	Rock Island
	SUBSCRIBED AND SWORN BEFORE ME, THIS 1st DAY OF March ~~19~~ 2002	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Rexann M. Garmoe; MY COMMISSION EXPIRES 11-9-03	"OFFICIAL SEAL" REXANN M. GARMOE Notary Public, State of Illinois My Commission Expires 11-9-2003
	NOTARY PUBLIC NAME (TYPED OR PRINTED): Rexann M. Garmoe	

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
[signature]	7-29-02	0028

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

SITE INFORMATION FORM

RECEIVED
FEB 21 1995
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER	PERMIT NUMBER
CS02 - BETHEL	28-94

COMPANY NAME: CENTRAL STONE COMPANY

COUNTY	1/4 SECTION	SECTION
SHELBY	NW	3
TOWNSHIP	**RANGE**	**ACRES**
T58N	R10W	138

RIVER OR STREAM NAME (FOR IN-STREAM ACRES):

MINERAL COMMODITY	ESTIMATED TONS/YEAR (FOR GRAVEL SITES)
LIMESTONE	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE): CENTRAL STONE COMPANY

ADDRESS: R.R. 1 - BOX 236

CITY	STATE	ZIP CODE
HANNIBAL	MISSOURI	63401-9622

SOURCE OF RIGHT TO MINE (CHECK ONE):

- [ ] MINERAL DEED
- [ ] LEASE
- [x] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [ ] OTHER (DESCRIBE):

DATE OF AGREEMENT:

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE): SAME AS ABOVE

ADDRESS:

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

- [ ] MINERAL DEED
- [ ] LEASE
- [ ] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [ ] OTHER (DESCRIBE):

DATE OF AGREEMENT:

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: 1-31-2010 (15 Years) CS02

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Area to be mined is gently rolling farm ground and small wooded areas. The soil consists of Gorin Silt Loam, Calwoods Silt Loam, and Goss cherty Silt Loan. Wood species consists of oak, cottonwood, sycamore, and walnut. There has been a quarry operating in this area for 40 +/- years.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

Subsoil 66" 8 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

If trees are on the property, they will be removed and burned. The top soil will be removed by scrapers and dozers. The subsoil will be tested for possible use as a topsoil replacement. This will give us more good cover for spoil areas.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil and subsoil will be placed in areas near spoil placement areas. If topsoil is not placed on spoil after grading, it will be seeded and mulched for erosion protection.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil will be removed by dozers and scrappers. Final grading will be done by dozers if at all possible. Soil will be placed in worked out quarry and a berm along a county road. We will try not to place spoil on unused ground that is underlain by limestone reserves.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

SEE MAP

YES	NO	
☐	☒	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☐	☒	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
PASTURE 5-3	WILDLIFE	SPRING - LATE FALL

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Seed and needed fertilizer will be broadcasted and finished grading. The area will then be mulched. It will be limed and fertilized after woil tests have been taken.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
5-3 Pasture Mix (See enclosed Pasture Mix) Good Wildlife	20	---	---

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All slopes will be graded to a 3:1 slope. If terraces are needed to control erosion, they will be constructed. In some areas the top of the apoil will be flat and used as industrial stockpile areas.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading will be done as placement is occuring.

REPLACEMENT OF TOPSOIL

Soon after grading

REVEGETATION

After grading is accomplished

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

11

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	35 AC
Agricultural (pasture, cropland, and horticultural)	----
Development (residential, industrial, and recreational)	103 Ac
Water impoundments (for wildlife, agricultural, or development)	---

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT	TITLE	DATE
Richard K[illegible]	GEOLOGIST	2-16-95

NOTARY PUBLIC EMBOSSER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)
	MISSOURI	RALLS
	SUBSCRIBED AND SWORN BEFORE ME, THIS 16th DAY OF February 19 95	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Shirley A. Bode — MY COMMISSION EXPIRES: 8-15-96	Shirley A. Bode, Notary Public State of Missouri, County of Monroe My Commission expires:
	NOTARY PUBLIC NAME (TYPED OR PRINTED): SHIRLEY A. BODE	

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
Brian D. Hicks	May 25, 1995	28

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

RECEIVED
JUN 28 1995
MISSOURI LAND RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER (New Location) CS12 - BOWLING GREEN	PERMIT NUMBER 28
COMPANY NAME CENTRAL STONE COMPANY	

COUNTY	1/4 SECTION	SECTION
PIKE	PART NW & NE	29
TOWNSHIP	RANGE	ACRES
T54N	R3W	232

RIVER OR STREAM NAME (FOR IN-STREAM ACRES)

MINERAL COMMODITY LIMESTONE	ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)
CENTRAL STONE COMPANY

ADDRESS
R.R. 1 - BOX 236

CITY	STATE	ZIP CODE
HANNIBAL	MO	63401

SOURCE OF RIGHT TO MINE (CHECK ONE):

- ☐ MINERAL DEED
- ☒ WARRANTY DEED
- ☐ OTHER (DESCRIBE): _____
- ☐ LEASE
- ☐ VERBAL AGREEMENT

DATE OF AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)
SAME AS ABOVE

ADDRESS

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

- ☐ MINERAL DEED
- ☐ WARRANTY DEED
- ☐ OTHER (DESCRIBE): _____
- ☐ LEASE
- ☐ VERBAL AGREEMENT

DATE OF AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

MISSOURI DEPARTMENT O_ATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

RECEIVED
P.O. BOX 176
JEFFERSON CITY, MO 65102
JUN 28 1995
MISSOURI LAND RECLAMATION COMMISSION

#28 Stone
Bowling Green
S29 T54N R3W

TYPE OF PLAN (CHECK ONE):
☐ SHORT TERM, FOR ONE PERMIT YEAR
☒ LONG TERM, FOR PERIOD THROUGH DATE: 1-1-2020

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers 232 acres of gently rolling pasture and crop ground. The area is dissected by a small intermittant drainage pattern, draining to the west into Peno Creek. The area has very few trees. The soil types are Fatina Silt Loam and Klum Loam in the bottoms and Gorin and Windfield Silt Loam im the uplands.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING: 8" INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE? ☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

The top nine feet (9') of soil was sampled at each of 5 core holes and tested by the Missouri University Extension Service. All holes show that the top 9' could be used for topsoil replacement with the correct ratio of nutrient/cropping options being used. The top 9' of soil will be removed by scraper and saved to cover all undersirable material below this horizon. The top 12" of topsoil will be kept at least 20' ahead of pit excavation.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Scrapers will deposit the soil in stockpiles near spoil placement. The stockpiles will be shaped and seeded to prevent erosion. However, in most cases, topsoil will be placed on spoil immediately after spoil has been placed and graded.

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MISSOURI LAND
RECLAMATION COMMISSION

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Overburden removed from quarry areas will be used in berms along the north, east and west property lines and will be backfilled in the mined out areas of the quarry when the economical reserves have been removed. Areas near Rt. 61 along the north side of the property will be leveled out by using spoil and used for future stockpile areas.

All areas will be graded to transversible slopes (3:1). Until quarry is large enough to be backfilled, spoil areas will be built near the west side of the property, adjacent to County Road 30.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

The first cut will be made along the west side of the property. The quarry will be advanced along the west line towards the north. (See the attached map.)

YES	NO	
☐	☒	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☒	☐	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

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JUN 28 1995
MISSOURI LAND
RECLAMATION COMMISSION

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1 See seed chart	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
5-3 Pasture Mix	Wildlife	Spring (March-May) Fall (Sept.-Nov.)

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

The seed will be incorporated into the soil by drill and disc. The area will be fertilized and limed according to need and mulched.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
5-3 Pasture Mix	20 lbs. per acre	N/A	N/A

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All spoil areas will be graded to slopes transversable by farm machinery. Any berms will have an 8-10- wide top with 3:1 sloped sides.

RECEIVED
JUN 28 1995
MISSOURI LAND
RECLAMATION COMMISSION

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

In most cases, the spoil will be graded while placement is occuring. If this can not be done, final grading will occur within one year of permit expiration.

REPLACEMENT OF TOPSOIL

Top soil will be placed after final grading - at least within one year of permit expiration.

REVEGETATION

Revegetation will be performed (depending on time of year) after topsoil has been replaced and within one year of permit expiration.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) 12

D. USE OF LAND WHEN RECLAIMED Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	41
Agricultural (pasture, cropland, and horticultural) (NOT AFFECTED)	119
Development (residential, industrial, and recreational)	72
Water impoundments (for wildlife, agricultural, or development)	

RECEIVED
JUN 28 1995
MISSOURI LAND
RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT	TITLE	DATE
Richard [signature]	GEOLOGIST	5-26-95

NOTARY PUBLIC EMBOSSER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)
	MISSOURI	RALLS
	SUBSCRIBED AND SWORN BEFORE ME, THIS 25th DAY OF May 19 95	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Shirley A. Bode — MY COMMISSION EXPIRES: 8-15-96	
	NOTARY PUBLIC NAME (TYPED OR PRINTED): SHIRLEY A. BODE	

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
Brian D. Hicks	July 28, 1995	28

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FOR

RECEIVED
MAR 1990
MISSOURI LAND RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER: CS07 - CURRYVILLE	PERMIT NUMBER: E. C. 28
COMPANY NAME: CENTRAL STONE COMPANY	

COUNTY	1/4 SECTION	SECTION
PIKE	NE	13
TOWNSHIP	**RANGE**	**ACRES**
T53N	R5W	108

RIVER OR STREAM NAME (FOR IN-STREAM ACRES):

MINERAL COMMODITY	ESTIMATED TONS/YEAR (FOR GRAVEL SITES)
LIMESTONE	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE): RUAL / RAY MORRIS

ADDRESS: 504 WEST MISSOURI

CITY	STATE	ZIP CODE
VANDALIA	MO	63382

SOURCE OF RIGHT TO MINE (CHECK ONE):

- [ ] MINERAL DEED
- [ ] WARRANTY DEED
- [ ] OTHER (DESCRIBE):
- [x] LEASE
- [ ] VERBAL AGREEMENT

DATE OF AGREEMENT: 3-27-1987

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE): Same as above OV

ADDRESS:

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

- [ ] MINERAL DEED
- [ ] WARRANTY DEED
- [ ] OTHER (DESCRIBE):
- [ ] LEASE
- [ ] VERBAL AGREEMENT

DATE OF AGREEMENT:

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

CS07- Carryville S-13, T-53N, R-5W

RECEIVED FEB 5 1996 MISSOURI LAN RECLAMATION COMMISSION

P.O. BOX 176 JEFFERSON CITY, MO 65102

RECEIVED MAR 04 1996

TYPE OF PLAN (CHECK ONE):
☐ SHORT TERM, FOR ONE PERMIT YEAR
☒ LONG TERM, FOR PERIOD THROUGH DATE: 1-01-2020

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

This plan covers 108 acres of gently rolling pasture and wooded acres. Well over half of the area is taken up by a quarry and stockpile area. The original quarry is now filled with water and Central Stone Company is still selling material out of the remaining stockpiles. The wooded area to the north of the stockpile area has numerous small oak trees, cottonwood and soft maple. It slopes to the north and drains into Lake Vandalia. The soil types are Armstrong Loam in the pasture areas and Keswick loam in the wooded areas.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING: 8 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE? ☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

The top 9' of soil will be tested by the Missouri University Extension Service and if all is able to be used as a topsoil replacement, it will be. This horizon will be removed by scrapers and saved to cover all undersirable material below material saved. The top 12" of topsoil will be removed 20' in back of the excavation to help conserve this material.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Scrapers will deposit the topsoil in stockpiles near the spoil placement site. The stockpiles will be shaped and seeded to prevent erosion.

RECEIVED
FEB 5 1996
MISSOURI LAND RECLAMATION COMMISSION
RECEIVED
MAR 0 4 1996
M.E.C.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

The remaining spoil below the topsoil will be removed by dozers and scrapers, and placed into the old quarry along the west wall. All material that will be exposed out of the water will have all sides graded to transversible slopes (3:1).

Our company would like to be granted a longer time to reclaim this area. We plan on placing all 17 acres of spoil in this area and want to place all topsoil over the area exposed out of the water when this is all done. This might take 10 or so years depending on the amount of sales from this quarry.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

(See Map) The pit area will be located in the northwest section of the long range mine plan area and will eventually be approximately 850 x 850 and cover 17 acres +/-.

YES	NO	
☐	☒	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☐	☒	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECEIVED FEB 5 1996
MAR 04 1996
MISSOURI LAND RECLAMATION COMMISSION
M. F. C. WILDLIFE

RECLAMATION PLAN - 10 CSR 40-10.02[illegible])(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
See Seed Chart 5 - 3 Pasture Mix		Spring(March-April) or Fall (Sept-Nov)

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

The seed will be incorporated onto the soil by broadcasting or placed into the soil by drill and disc. The area will be fertilized and limed according to need and mulched.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
5-3 Pasture Mix	20 lbs. per acre	N/A	N/A

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

RECEIVED
MAR 14 1996
M. E. G.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

The spoil is being placed into approximately 30' of water in our old quarry hole. The first couple of strippings there will be very little material above the water line. As more and more spoil is placed in this area, the material will be exposed and all outside slopes will be graded to 3:1.

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FEB 5 1996
MISSOURI LAND
RECLAMATION COMMISSION

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading will be done after all spoil has been placed into quarry area and reaches the desired elevation.

Within 12 months of expiration of the permit. DL DL

REPLACEMENT OF TOPSOIL

Topsoil will be placed after final grading.

Within 12 months of expiration of the permit. DL DL

REVEGETATION

Revegetation will be performed (depending on the time of year) after topsoil has been replaced and within one year of permit expiration.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12 inches

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation

	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	38
Agricultural (pasture, cropland, and horticultural)	10
Development (residential, industrial, and recreational) Industrial	20
Water impoundments (for wildlife, agricultural, or development)	40

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED
FEB 5 1996
MISSOURI LAND
RECLAMATION COMMISSION

RECEIVED
MAR 04 1996
M. E. C.

SIGNATURE OF APPLICANT	TITLE	DATE
Richard Umstatz	GEOLOGIST	1-23-96

NOTARY PUBLIC EMBOSSER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)
	MISSOURI	RALLS
	SUBSCRIBED AND SWORN BEFORE ME, THIS 23rd DAY OF January 19 96	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Shirley A. Bode — MY COMMISSION EXPIRES: 8-15-96	
	NOTARY PUBLIC NAME (TYPED OR PRINTED): SHIRLEY A. BODE	

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
MEC, P.C.	3/5/96	28

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

RECEIVED
FEB 24 199
MISSOURI RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER	PERMIT NUMBER
CS31 - FORT BELLEFONTAINE	28

COMPANY NAME: CENTRAL STONE COMPANY

COUNTY	1/4 SECTION	SECTION
ST. LOUIS		9

TOWNSHIP	RANGE	ACRES
T47N	R7E RK ~~R10W~~	119

RIVER OR STREAM NAME (FOR IN-STREAM ACRES):

MINERAL COMMODITY	ESTIMATED TONS/YEAR (FOR GRAVEL SITES)
LIMESTONE	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE): CENTRAL STONE COMPANY

ADDRESS: R.R. 1 - BOX 236

CITY	STATE	ZIP CODE
HANNIBAL,	MISSOURI	63401

SOURCE OF RIGHT TO MINE (CHECK ONE):

- [ ] MINERAL DEED
- [ ] LEASE
- [x] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [ ] OTHER (DESCRIBE):

DATE OF AGREEMENT:

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE): SAME AS ABOVE

ADDRESS:

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

- [ ] MINERAL DEED
- [ ] LEASE
- [ ] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [ ] OTHER (DESCRIBE):

DATE OF AGREEMENT:

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):
☐ SHORT TERM, FOR ONE PERMIT YEAR
☒ LONG TERM, FOR PERIOD THROUGH DATE: 12-31-2015

CS31

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

The SE section of the quarry has been partly stripped by past owners. There is no topsoil. The area to the NE is boardered by the Mississippi River and to the SW by Coldwater Creek. The past owners hydraulically dredged overburden to the top of the original topography along the whole SE side of the quarry. The area is grown up in cottonwood, sycamore and oad trees. Predominant soils along Coldwater Creek is the Menfro Silt Loam. The rest of the soil profile has been altered.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

19' soil - usable *7 INCHES
*where found

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
☒ YES OR ☐ NO No topsoil- all soil to be sold if possible.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Scrapers and dozers

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

If topsoil is not replaced when grading of spoil is done, it will be seeded and mulched for erosion protection.

RECEIVED
FEB 24 1995
MISSOURI LAND
RECLAMATION COMMISSION

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

All spoil that can be sold will be removed from the property. There will be a levee constructed along the Mississippi River and along Coldwater Creek to an elevation a little above the 100 year flood. It will have a 10' top with 3:1 sides. As we work the quarry floor out, the overburden will be placed in the quarry floor along Coldwater Creek on the inside of the levee. There is 7 acres in the SE corner of the property for spoil placement if the need arises.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

SEE MAP

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RECLAMATION COMM.

YES	NO	
☐	☒	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☐	☒	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
5-3 PASUTRE MIX	LEVEE/WILDLIFE	SPRING/FALL

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Depends on the time of year. In the spring of the year, it will be broadcast. In the fall, the seed will be drilled.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
SEE SEED CHART	20 LBS.		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

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ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All levees will have 10'+/- tops with 3:1 slopes on the sides. If taken anywhere else within the long range mine plan, the spoil will have gently rolling tops with all outside slopes 3:1. If it is pushed into the quarry, as the quarry expands, it will be graded to outside slopes of 3:1. This area will however be eventually covered with water after all quarrying stops.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

As the spoil is being placed, except if it is dumped into the quarry.

REPLACEMENT OF TOPSOIL

No topsoil, however 19' is good for replacement and will be placed after grading.

REVEGETATION

After topsoil replacement.

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AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12"

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	20
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	99
Water impoundments (for wildlife, agricultural, or development)	

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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SIGNATURE OF APPLICANT	TITLE	DATE
Richard Klemstro	GEOLOGIST	2-21-95

NOTARY PUBLIC EMBOSSER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)
	MISSOURI	RALLS
	SUBSCRIBED AND SWORN BEFORE ME, THIS 21st DAY OF February 19 95	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Shirley A. Bode — MY COMMISSION EXPIRES: 8-15-96	
	NOTARY PUBLIC NAME (TYPED OR PRINTED): SHIRLEY A. BODE	

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
Brian D. Hicks	May 25, 1995	28

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MISSOURI LAND RECLAMATION COMMISSION

MISSOURI DEPARTMENT OF N RAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER CS01 CENTRAL STONE COMPANY	PERMIT NUMBER 0028
COMPANY NAME CENTRAL STONE COMPANY	

COUNTY	1/4 SECTION	SECTION
RALLS		16, 17, 20, 21
TOWNSHIP	**RANGE**	**ACRES** OLD + NEW = TOTAL
T56N	R6W	347 + 40 = 387

RIVER OR STREAM NAME (FOR IN-STREAM ACRES)

MINERAL COMMODITY LIMESTONE	ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)
KNOX COUNTY STONE COMPANY

ADDRESS
46445 SWEETBAY LANE

CITY	STATE	ZIP CODE
HANNIBAL	MO.	63401

SOURCE OF RIGHT TO MINE (CHECK ONE):

- ☐ MINERAL DEED
- ☒ WARRANTY DEED
- ☐ OTHER (DESCRIBE):
- ☐ LEASE
- ☐ VERBAL AGREEMENT

DATE OF AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)
SAME AS ABOVE

ADDRESS

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

- ☐ MINERAL DEED
- ☐ WARRANTY DEED
- ☐ OTHER (DESCRIBE):
- ☐ LEASE
- ☐ VERBAL AGREEMENT

DATE OF AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

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MISSOURI LAND RECLAMATION COMMISSION

MISSOURI DEPARTMENT OF N[illegible]RAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):
☐ SHORT TERM, FOR ONE PERMIT YEAR
☒ LONG TERM, FOR PERIOD THROUGH DATE:

COMPANY NAME CENTRAL STONE COMPANY
CS01 - HUNTINGTON

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

The area to be mined is gently rolling timber ground (Cedar, Oak, Walnut, and Cottonwood). A small gully runs through the Northern half of the property. The predominant soil types are Goss Cherty Silt Loam and Winfield Silt Loan. These soils are associated with upland areas - moderately sloping and fairly well drained.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

Subsoil 40" 6-8 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Combination of excavators, scrappers, and dozers

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil will be stored in areas adjacent to spoil areas. These topsoil piles will be graded, seeded, and mulched for erosion protection. The subsoil has been tested and can be used for topsoil replacement (see enclosed tests).

PERMIT NO. _____ SITE NO. +/or NAME

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B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

This new area lies in the middle of our quarry and is within the area of our previous long range mine plan. Spoil and unuseable cap rock will be dumped along edges of our old pit. These dump areas might take several years to fill. After these are full, they will be graded to a 3:1 slope. If terraces are needed, they will be built. Trucks, and possibly scrapers will be used to place the spoil, and dozers to grade the sides of the dumps.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

SEE MAP

YES	NO	
☐	☒	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☐	☒	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

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RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
5-3 PASTURE MIX	Wildlife	Spring / Fall

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

The topsoil will be prepared, the area fertiliezed, seed broadcast, and the area mulched.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
See enclosed see chart	30 lbs.		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

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RECLAMATION COMMISSION

MIXTURE TO BE USED

PASTURE & PLOWDOWN MIXTURE CHART

	X Pasture			Grass	70/30	Plow-down
	5-3	3-1	K-10	W-Way		
Alfalfa, VNS	15%	28%	12%			
Jubilee Alfalfa		5%	6%			
Cimarron Alfalfa		10%	5%			
Alsike Clover	11%		9%			20%
Ladino Clover	4%	5%				
Arlington Red Clover		18%	21%			
Red Clover	18%					
Mammoth Clover					70%	25%
Korean Lespedeza	10%					
Kentucky 31 Tall Fescue				60%		
Orchard Grass	15%	34%	17%			
Perennial Rye	15%		12.5%	15%		
Annual Rye			5%	15%		
Timothy	12%		12.5%	10%		10%
Y.B. Sweet Clover					30%	45%

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

The spoil dump areas outside slopes will be graded to 3:1. These slopes will be inside the quarry walls grading down to the quarry floor. As mentioned before, terraces will be constructed if they are needed.

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RECLAMATION COMMISSION

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

After spoil dump is completed.

REPLACEMENT OF TOPSOIL

After grading to a 3:1 slope.

REVEGETATION

After topsoil is placed and seed bed is prepared.

VERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12'

. USE OF LAND WHEN RECLAIMED stimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
ildlife (forest or other habitat with livestock excluded)	100 + 15 115 - Spoil
ricultural (pasture, cropland, and horticultural)	
velopment (residential, industrial, and recreational)	247 + 25 272 - Quarry
ter impoundments (for wildlife, agricultural, or development)	

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MISSOURI LAND RECLAMATION COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT	TITLE	DATE
Richard Wheeler	GEOLOGIST	7-29-02

NOTARY PUBLIC EMBOSSER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)
	MISSOURI	RALLS
	SUBSCRIBED AND SWORN BEFORE ME THIS 29th DAY OF July X19 2002	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Shirley A. Bode — MY COMMISSION EXPIRES: 8-15-04	
	NOTARY PUBLIC NAME (TYPED OR PRINTED): SHIRLEY A. BODE	

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
[illegible]	11-25-02	0028

PERMIT NO. SITE NO. + / OR NAME

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

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MISSOURI LAND RECLAMATION COMMISSION

SITE INFORMATION FORM

To be completed for each seperate area of disturbance with mining operations

SITE NAME OR NUMBER: **Moscow Mills Quarry CS57**	PERMIT NUMBER: **0028**
COMPANY NAME: **Central Stone Company**	

COUNTY	1/4 SECTION	SECTION(S)
Lincoln		**17**
TOWNSHIP	RANGE	ACRES
T48N	**R1E**	**4 +/-**

RIVER OR STREAM NAME (FOR IN-STREAM ACRES):

MINERAL COMMODITY: **Limestone**	ESTIMATED TONS/YEAR (FOR GRAVEL SITES):

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE): **George & Edna Wielms**

ADDRESS: **2168 Country Lane**

CITY	STATE	ZIP CODE
Troy	**MO**	**63379**

SOURCE OF RIGHT TO MINE (CHECK ONE)

DATE OF AGREEMENT: **9/19/02**

- [ ] MINERAL DEED
- [ ] LEASE
- [ ] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [X] OTHER (DESCRIBE): **Purchase Agreement**

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE): **George & Edna Wielms**

ADDRESS: **2168 Country Lane**

CITY	STATE	ZIP CODE
Troy	**MO**	**63379**

SOURCE OF RIGHT TO MINE (CHECK ONE)

DATE OF AGREEMENT: **9/19/02**

- [ ] MINERAL DEED
- [ ] LEASE
- [ ] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [X] OTHER (DESCRIBE): **Purchase Agreement**

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

SITE INFORMATION FORM

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To be completed for each seperate area of disturbance with mining operations

SITE NAME OR NUMBER: **Moscow Mills Quarry CS57**	PERMIT NUMBER: **0028**
COMPANY NAME: **Central Stone Company**	

COUNTY	1/4 SECTION	SECTION(S)
Lincoln		**17, 18 & US Survey 1733**
TOWNSHIP	RANGE	ACRES
T48N	**R1E**	**202 +/-**

RIVER OR STREAM NAME (FOR IN-STREAM ACRES):

MINERAL COMMODITY: **Limestone**	ESTIMATED TONS/YEAR (FOR GRAVEL SITES):

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE): **Lincoln County Stone Company**

ADDRESS: **5091 New Baumgartner Road**

CITY	STATE	ZIP CODE
St. Louis	**MO**	**63129**

SOURCE OF RIGHT TO MINE (CHECK ONE)

- [ ] MINERAL DEED
- [x] LEASE
- [ ] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [ ] OTHER (DESCRIBE): **Lease with purchase option**

DATE OF AGREEMENT: **11/5/01**

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE): **Lincoln County Stone Company**

ADDRESS: **5091 New Baumgartner Road**

CITY	STATE	ZIP CODE
St. Louis	**MO**	**63129**

SOURCE OF RIGHT TO MINE (CHECK ONE)

- [ ] MINERAL DEED
- [x] LEASE
- [ ] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [ ] OTHER (DESCRIBE): **Lease with purchase option**

DATE OF AGREEMENT: **11/5/01**

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

Central Stone - Moscow Mills Quarry CS57
P.O. BOX 176
Jefferson City, MO 65102

TYPE OF PLAN (CHECK ONE)

[ ] SHORT TERM, FOR ONE PERMIT YEAR

[X] LONG TERM, FOR PERIOD THROUGH DATE: **6/1/40**

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Farm land, rolling hills, slightly wooded with native species .

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OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

12" in A and/or B Soil Horizon

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

[X] YES OR [ ] NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Standard earthmoving equipment will remove the topsoil.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Standard earthmoving equipment will place topsoil in berms, which will be used for either sight and/or sound attenuation features or stockpiled for future reclamation.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Overburden/Spoil will either be placed in sight and sound berms around perimeter of property or stockpiled for future reclamation.

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C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE ANTICIPATED, WRITE "NONE" BELOW)

None

PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See Map.

YES	NO	
☐	☒	Will any excavation be at or within fifty feet (50) of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right-of-way, and in no case may the excavation be closer to the right-of-way than fifty feet or twenty-five plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☐	☒	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
1	Wildlife	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

No less than 75% of the areas to be left as wildlife habitat will be graded to traverseable for farm equipment. Up to 25% of said wildlife area will not be graded to allow for diverse habitat. After overburden replacement and grading are complete, where necessary, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or all of the following: Broadcast, Drilling, and/or Hydroseeding. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

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Warm Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Stems/Acre
Switchgrass	3 - 5	Alfalfa	5 - 10
Big Bluestem	6 - 8	Red Clover	3 - 5
Indian Grass	6 - 8	Lespedeza	5 - 10

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
2	Industrial	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After Overburden replacement and grading are complete, where necessary, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or all of the following: Broadcast, Drilling, and/or Hydroseeding. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Cool Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Tall Fescue	10 - 15	Alfalfa	15 - 20
Ryegrass	10 - 15	Red Clover	5 - 10
Orchardgrass	8 - 10	Lespedeza	15 - 20
Bromegrass	6 - 8	Crownvetch	15 - 20
Timothy	4 - 6		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
3	Water Impoundments	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or any combination of the following: Broadcast, Drilling, and/or Hydroseeding. Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

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Cool Season Grasses		Warm Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Tall Fescue	20 - 24	Switchgrass	5 - 10	Alfalfa	8 - 12
Ryegrass	15 - 20	Big Bluestem	10 - 15	Red Clover	4 - 6
Bromegrass	8 - 16	Indian Grass	10 - 15	Lespedeza	8 - 12
Orchardgrass	4 - 6				
Timothy	3 - 5				

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
4	Agricultural	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or all of the following: Broadcast, Drilling, and/or Hydroseeding. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Cool Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Tall Fescue	10 - 15	Alfalfa	8 - 12
Ryegrass	8 - 12	Red Clover	4 - 6
Bromegrass	5 - 10	Lespedeza	8 - 12
Orchardgrass	4 - 6	Crownvetch	8 - 12
Timothy	3 - 5		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Property Frontage along eastern perimeter is adjacent to 4 lane divided highway and commercial/industrial development. Reclaimed area above/around the perimeter of water impoundment(s) will be graded to a slope traversable by farm equipment and will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (4). Water Impoundment(s) will feature water, vertical rock faces, and will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (4). Industrial areas will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (3). Agricultural areas will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (2).

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RECLAMATION COMMISSION

C. DESCRIBE THE GENE EQU ES

GRADING

Grading, where necessary/required per reclamation standards for each category of reclamation, will be completed as set forth in 10 CSR 40-10.050 (10) (A).

REPLACEMENT OF TOPSOIL

Topsoil replacement, where necessary/required per reclamation standards for each category of reclamation, will be completed as set forth in 10 CSR 40-10.050 (10) (A).

REVEGETATION

Revegetation, where necessary/required per reclamation standards for each category of reclamation, will be completed as set forth in 10 CSR 40-10.050 (10) (B).

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12" where necessary and/or required

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES
Wildlife (forest or other habitat with livestock excluded)	24 +/-
Agricultural (pasture, cropland, and horticultural)	22 +/-
Development (residential, industrial, and recreational)	17 +/-
Water impoundments (for wildlife, agricultural, or development)	143 +/-

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED

OCT 17 2002

MISSOURI LAND
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT	TITLE	DATE
[signature]	Vice President	10/14/02

NOTARY PUBLIC EMBOSSER OR BLACK INK RUBBER STAMP SEAL	STATE Illinois	COUNTY (OR CITY OF ST. LOUIS) Rock Island
	SUBSCRIBED AND SWORN BEFORE ME, THIS 14 DAY OF October YEAR 2002	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE [signature] / MY COMMISSION EXPIRES 11-9-03	"OFFICIAL SEAL" REXANN M. GARMOE Notary Public, State of Illinois My Commission Expires 11-9-2003
	NOTARY PUBLIC NAME (TYPED OR PRINTED) Rexann M. Garmoe	

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
[signature]	2-7-03	0028

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
SITE INFORMATION FORM

RECEIVED
4 1995
MISSOURI LAND RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER: CS06 - NEW LONDON	PERMIT NUMBER: 28
COMPANY NAME: CENTRAL STONE COMPANY	

COUNTY	1/4 SECTION	SECTION
RALLS		24 / 19 ?

TOWNSHIP	RANGE	ACRES
T56N	R5W	115

RIVER OR STREAM NAME (FOR IN-STREAM ACRES):

MINERAL COMMODITY	ESTIMATED TONS/YEAR (FOR GRAVEL SITES)
LIMESTONE	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE):
SEC. 24 BONNIE (STEWART) ~~ANDRE~~ SEC. 19 - CENTRAL STONE COMPANY

ADDRESS: RT 3 - BOX 343-1

CITY	STATE	ZIP CODE
HANNIBAL,	MISSOURI	63401

SOURCE OF RIGHT TO MINE (CHECK ONE):
- ☐ MINERAL DEED
- ☒ WARRANTY DEED
- ☐ OTHER (DE
- ☒ LEASE
- ☐ VERBAL AGREEMENT

DATE OF AGREEMENT: 7-1-86

6/12/96
The original lease between Central Stone and Bonnie Stuart's (current landowner at the New London site) parents, was signed prior to 8/28/90. As per 10 CSR 40-10.02(2)(C) when a new lease is signed, Central Stone must have a mine plan that is approved by Ms. Stuart! She is not happy with the one her parents allegedly agreed to & wants some things changed.
— Donna Menown

MINERAL RIGHTS

ADDRESS

CITY

ZIP CODE

SOURCE OF RIGHT

DATE OF AGREEMENT

- ☐ MINERAL DEE
- ☐ WARRANTY D
- ☐ OTHER (DESCRIBE):

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):
☐ SHORT TERM, FOR ONE PERMIT YEAR
☒ LONG TERM, FOR PERIOD THROUGH DATE: 1-1-2030 New London Site CS06

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Plan includes 115 Ac. of rolling pasture ground. Of the 115 Ac., 23 Ac. of it is owned by Central Stone Company. Both properties have small areas of timber (oaks, sycamore, cottonwood and red cedar). It is boardered on the north side by a small intermittant creek. Soil types are goss cherty loam, menfro silt loam and the winfield silt loam. The area that will be immediately affected is overlain by the goss cherty loam.

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RECLAMATION COMMISSION

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

62" Subsoil 5 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

The top 9' of soil has been tested and is suitable for a topsoil substitute. The material will be removed by dozers and scrapers.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The topsoil will be deposited near the spoil placement areas, seeded and mulched for erosion protection.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil will be placed in areas already affected by previously deposited spoil or it will be placed back into the old pit not being used. If it is deposited into the pit, the topsoil will not be used to cover the area until the spoil has filled specific areas.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

SEE MAP

YES	NO	
☐	☒	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☐	☒	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-1[illegible]20(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
5-3 PASTURE MIX	WILDLIFE	FALL/ SPRING

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Depending on the time of year, Spring, the seed will be broadcast and and fertilized. In the fall it will be drilled.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
5-3 PASTURE MIX SEE ENCLOSED SEED CHART	20 LBS.	---	---

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All areas of spoil placement inside quarry area or outside the area, will be graded to a gently rolling topography with 3:1 outside slopes.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

While spoil is being placed.

REPLACEMENT OF TOPSOIL

Depends on areas of spoil deposition. If in area of older spoil piles outside pit, it will be replaced after grading. If it is in the old pit, it will be replaced after certain areas are filled and final grading is done.

REVEGETATION

After grading and topsoil has been placed.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

1'

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	63
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	50
Water impoundments (for wildlife, agricultural, or development)	

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT	TITLE	DATE
Richard Klemstein	GEOLOGIST	2-17-95

NOTARY PUBLIC EMBOSSER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)
	MISSOURI	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 17th DAY OF February 19 95	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Shirley A. Bode — MY COMMISSION EXPIRES: 8-15-96	
	NOTARY PUBLIC NAME (TYPED OR PRINTED): SHIRLEY A. BODE	

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
Brian D. Hicks	May 25, 1995	28

MISSOURI DEPARTMENT C ATURAL RESOURCES
LAND RECLAMATION COMMISSION

SITE INFORMATION FORM

RECEIVED
DEC 1 9 2001
MISSOURI LAND RECLAMATION COMMISSION

To be completed for each seperate area of disturbance with mining operations

SITE NAME OR NUMBER: **North Quarry CS55**	PERMIT NUMBER: **0028**
COMPANY NAME: **Central Stone Company**	

COUNTY	1/4 SECTION	SECTION(S)
St. Louis		**9 & 17**
TOWNSHIP	RANGE	ACRES
47N	**7E**	**227**

RIVER OR STREAM NAME (FOR IN-STREAM ACRES): **N/A**

MINERAL COMMODITY	ESTIMATED TONS/YEAR (FOR GRAVEL SITES)
Limestone	**N/A**

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE): **Knox County Stone Company, Inc.**

ADDRESS: **1701 5th Avenue**

CITY	STATE	ZIP CODE
Moline	**IL**	**61265**

SOURCE OF RIGHT TO MINE (CHECK ONE) — DATE OF AGREEMENT: **11/5/01**

- [ ] MINERAL DEED
- [ ] LEASE
- [x] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [ ] OTHER (DESCRIBE):

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE): **Same as above.**

ADDRESS:

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE) — DATE OF AGREEMENT:

- [ ] MINERAL DEED
- [ ] LEASE
- [ ] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [ ] OTHER (DESCRIBE):

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

Central Stone - North Quarry CS55
P.O. BOX 176
Jefferson City, MO 65102

TYPE OF PLAN (CHECK ONE)

[ ] SHORT TERM, FOR ONE PERMIT YEAR

[X] LONG TERM, FOR PERIOD THROUGH DATE: **6/1/40**

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Topography is generally flat farmland. Approximately 6" TO 12" of topsoil appears to be present.

RECEIVED
MAR 5 2002
MISSOURI LAND RECLAMATION COMMISSION

OPERATION PLAN - 10 CSR 40-10.020(2)(D

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
A + B Zone = +/- 12"	[X] YES OR [ ] NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Post 1990 Areas of Disturbance: All Topsoil (A) and Subsoil (B) material will be removed using scrapers, dozers, and/or other earth moving equipment as deemed necessary by permittee. Topsoil (A) and Subsoil (B) material may be placed over graded spoil/overburden from previous cut. Topsoil (A) and Subsoil (B) material may also be stockpiled for future reclamation. Topsoil (A) and Subsoil (B) removal operations will be conducted in such a manner as to minimize erosion. Pre 1990 Areas of Disturbance: Topsoil regulations do not apply.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Post 1990 Areas of Disturbance: Topsoil (A) and Subsoil (B) material that is to be stockpiled, will be placed by scrapers, dozers and/or other earth moving equipment as deemed necessary by permittee. Topsoil (A) and Subsoil (B) storage operations will be conducted in such a manner as to minimize erosion. Pre 1990 Areas of Disturbance: Topsoil regulations do not apply.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

All overburden removed from the pit will be placed in berms along a portion of the east and west property line (see map) to form a buffer between the quarry and neighbors. The grading and seeding will be done to meet the performance requirements of Missouri 10 CSR 40 - 10.050. Grading and seeding will be done concurrently as berm reaches final elevations in stages.

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C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE ANTICIPATED, WRITE "NONE" BELOW)

None

PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

Pit will continue moving to the south, similar to the existing pit. See Detail map for location(s).

YES	NO	
☐	☒	Will any excavation be at or within fifty feet (50) of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right-of-way, and in no case may the excavation be closer to the right-of-way than fifty feet or twenty-five plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☐	☒	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

A. REVEGETATION (Attach additional sheets if needed)

REVEGETATION MIX #	PURPOSE OR LAND USE	SEEDING OR PLANTING TIME
1	Water Impoundments	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance: After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Pre 1990 Areas of Disturbance: After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or any combination of the following: Broadcast, Drilling, and/or Hydroseeding. Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

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MAR 5 2002

Cool Season Grasses		Warm Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Tall Fescue	20 - 24	Switchgrass	5 - 10	Alfalfa	8 - 12
Ryegrass	15 - 20	Big Bluestem	10 - 15	Red Clover	4 - 6
Bromegrass	8 - 16	Indian Grass	10 - 15	Lespedeza	8 - 12
Orchardgrass	4 - 6				
Timothy	3 - 5				

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
2	Agricultural	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance: After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Pre 1990 Areas of Disturbance: After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or all of the following: Broadcast, Drilling, and/or Hydroseeding. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Cool Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Tall Fescue	10 - 15	Alfalfa	8 - 12
Ryegrass	8 - 12	Red Clover	4 - 6
Bromegrass	5 - 10	Lespedeza	8 - 12
Orchardgrass	4 - 6	Crownvetch	8 - 12
Timothy	3 - 5		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

A. REVEGETATION (Attach additional sheets if needed)

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
3	Industrial	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After Overburden replacement and grading are complete, where necessary, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or all of the following: Broadcast, Drilling, and/or Hydroseeding. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

RECEIVED
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Cool Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Tall Fescue	10 - 15	Alfalfa	15 - 20
Ryegrass	10 - 15	Red Clover	5 - 10
Orchardgrass	8 - 10	Lespedeza	15 - 20
Bromegrass	6 - 8	Crownvetch	15 - 20
Timothy	4 - 6		

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
4	Wildlife	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

No less than 75% of the areas to be left as wildlife habitat will be graded to traverseable for farm equipment. Up to 25% of said wildlife area will not be graded to allow for diverse habitat. After overburden replacement and grading are complete, where necessary, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or all of the following: Broadcast, Drilling, and/or Hydroseeding. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Warm Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Switchgrass	3 - 5	Alfalfa	5 - 10
Big Bluestem	6 - 8	Red Clover	4 - 6
Indian Grass	6 - 8	Lespedeza	5 - 10

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

Central Stone - North Quarry CS55

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUD' SLOPES

Reclaimed area above/around the p meter of water impoundment(s) wil e graded to a slope traversable by farm equipment and will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (4). Water Impoundment(s) will feature water, vertical rock faces, and will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (4). Industrial areas will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (3). Agricultural areas will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (2).

MAR 5 2002

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOW

GRADING

Grading will be done as pit advances and spoils are placed to construct berm. Final grading will be completed as set forth in 10 CSR 40-10.050 (10) (A).

REPLACEMENT OF TOPSOIL

Topsoil replacement, where necessary/required per reclamation standards for each category of reclamation, will be completed as set forth in 10 CSR 40-10.050 (10) (A).

REVEGETATION

Revegetation, per reclamation standards for each category of reclamation, will be completed as set forth in 10 CSR 40-10.050 (10) (B).

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12" where appropriate and/or required

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES
Wildlife (forest or other habitat with livestock excluded)	43 +/-
Agricultural (pasture, cropland, and horticultural)	40 +/-
Development (residential, industrial, and recreational)	59 +/-
Water impoundments (for wildlife, agricultural, or development)	85 +/-

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED
MAR 5 2002
MISSOURI LAND RECLAMATION COMMISSION

SIGNATURE OF APPLICANT	TITLE		DATE
	Manager Environmental Services		3/1/02
NOTARY PUBLIC EMBOSSER SEAL	STATE Illinois	COUNTY (OR CITY ~~OF ST. LOUIS~~) Rock Island	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 1st DAY OF March 19 2001	USE RUBBER STAMP IN CLEAR AREA BELOW	
	NOTARY PUBLIC SIGNATURE Rexann M. Garmoe	MY COMMISSION EXPIRES 11-9-03	"OFFICIAL SEAL" REXANN M. GARMOE Notary Public, State of Illinois My Commission Expires 11-9-2003
	NOTARY PUBLIC NAME (TYPED OR PRINTED) Rexann M. GARMOE		
APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED 10-3-02	PERMIT NUMBER 0028	

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

SITE INFORMATION FORM

RECEIVED

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER	PERMIT NUMBER
CS04 - PARIS	28

COMPANY NAME: CENTRAL STONE COMPANY

COUNTY	1/4 SECTION	SECTION
MONROE	27(NW,SW) 28(W½)	27 & 28
TOWNSHIP	**RANGE**	**ACRES**
T54N	R10W	210

RIVER OR STREAM NAME (FOR IN-STREAM ACRES):

MINERAL COMMODITY	ESTIMATED TONS/YEAR (FOR GRAVEL SITES)

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE): CENTRAL STONE COMPANY

ADDRESS: R.R. 1 - BOX 236

CITY	STATE	ZIP CODE
HANNIBAL	MISSOURI	63401-9622

SOURCE OF RIGHT TO MINE (CHECK ONE):

- [ ] MINERAL DEED
- [x] WARRANTY DEED
- [ ] OTHER (DESCRIBE):
- [ ] LEASE
- [ ] VERBAL AGREEMENT

DATE OF AGREEMENT:

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE): SAME AS ABOVE

ADDRESS:

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

- [ ] MINERAL DEED
- [ ] WARRANTY DEED
- [ ] OTHER (DESCRIBE):
- [ ] LEASE
- [ ] VERBAL AGREEMENT

DATE OF AGREEMENT:

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):
☐ SHORT TERM, FOR ONE PERMIT YEAR
☒ LONG TERM, FOR PERIOD THROUGH DATE: 1-1-2010

C504

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Topography is gently rolling poor farm ground and timber. The areas topography is the result of drainage towards Elk Fork, boarding the property on the north and west sides. The predominant soil types are Goss Cherty Silt Loam, Armstrong Loam, and the Kewsick Loam.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

SUBSOIL 41" 7 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Topsoil will be removed by scrapers and dozers.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

If topsoil is not placed after grading, piles will be seeded and mulched for erosion protection.

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B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil will be placed in berms along property lines where needed. East of our present stockpile area the limestone reserves are overlain by Pennsylvanian fire clay and it would not be economical to recover the stone. Spoil will be placed in these areas with outside slopes graded to 3:1.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

SEE MAP

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YES	NO	
☐	☒	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☐	☒	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
5-3 PASTURE MIX	WILDLIFE	SPRING/FALL

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

If seeding is done in the Fall, the seed will be drilled. In the Spring it will be braodcast. These areas will be tested, fertilized, and mulched if needed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
SEE ENCLOSED SEED CHART	20 LBS.		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Any berms will have flat 8' wide tops and 3:1 graded sides. All spoil areas will have gently rolling tops with all outside slopes also graded to 3:1. If the length of the sides or the height of the pile warrent having terraces to stop erosion, they will be constructed.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

As spoil is being placed.

REPLACEMENT OF TOPSOIL

After grading

REVEGETATION

After topsoil is replaced.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) 7" TOPSOIL
5" SUBSOIL RK

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	90
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	120
Water impoundments (for wildlife, agricultural, or development)	

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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RECLAMATION COMMISSION

SIGNATURE OF APPLICANT	TITLE	DATE
Richard Klomsten	GEOLOGIST	2-20-95

NOTARY PUBLIC EMBOSSER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)
	MISSOURI	RALLS
	SUBSCRIBED AND SWORN BEFORE ME, THIS 20th DAY OF FEBRUARY 19 95	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Shirley A. Bode — MY COMMISSION EXPIRES: 8-15-96	
	NOTARY PUBLIC NAME (TYPED OR PRINTED): SHIRLEY A. BODE	

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
Brian D. Hicks	May 25, 1995	28

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

SITE INFORMATION FORM

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER	PERMIT NUMBER
CS30 - SAVERTON	28

COMPANY NAME: CENTRAL STONE COMPANY

COUNTY	1/4 SECTION	SECTION
RALLS		28

TOWNSHIP	RANGE	ACRES
T56N	R3W	150

RIVER OR STREAM NAME (FOR IN-STREAM ACRES):

MINERAL COMMODITY	ESTIMATED TONS/YEAR (FOR GRAVEL SITES)
LIMESTONE	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE): CENTRAL STONE COMPANY

ADDRESS: R.R. 1 - BOX 236

CITY	STATE	ZIP CODE
HANNIBAL	MISSOURI	63401

SOURCE OF RIGHT TO MINE (CHECK ONE):

- [ ] MINERAL DEED
- [x] WARRANTY DEED
- [ ] OTHER (DESCRIBE):
- [ ] LEASE
- [ ] VERBAL AGREEMENT

DATE OF AGREEMENT:

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MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE): SAME AS ABOVE

ADDRESS:

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

- [ ] MINERAL DEED
- [ ] WARRANTY DEED
- [ ] OTHER (DESCRIBE):
- [ ] LEASE
- [ ] VERBAL AGREEMENT

DATE OF AGREEMENT:

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):
☐ SHORT TERM, FOR ONE PERMIT YEAR
☒ LONG TERM, FOR PERIOD THROUGH DATE: 1-1-2010

CS30

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Area to be quarried is bottom farm ground along the Mississippi River. The area is dissected by Fool Creek. The predominant soil is Belknap Silt Loam. The top 9' of topsoil and subsoil was tested and can be used as topsoil subsitute.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING: 7 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE? ☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Topsoil and subsoil will be removed by scrapers and dozers.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

If topsoil is not placed after final grading of the spoil placement area, it will be seeded and mulched for erosion protection.

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RECLAMATION COMMISSION

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil will be placed between the railroad track and the river to raise area for stockpiles. Spoil will also be used to construct levees along our property for flood protection. Some spoil will be used near our present stockpile area for industrial expansion.

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

None

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See Map

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LAND RECLAMATION COMMISSION

YES	NO	
☐	☒	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☐	☒	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
5-3	LEVEL - WILDLIFE	FALL/SPRING

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

DEPENDING ON THE TIME OF YEAR, DURING THE FALL MONTHS THE SEED WILL BE DRILLED. IN THE SPRING, THE SEED WILL BE BROADCAST.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
SEE SEED CHART	20 LBS.		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All industrial areas will be fairly flat, with all outside slopes graded to 3:1. Levees will have 10' tops and a combination of both sides equalling 5:1.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

While spoil is being placed.

REPLACEMENT OF TOPSOIL

If it is not going to be used as industrial areas, the topsoil will be placed after grading is done.

REVEGETATION

As soon as topsoil has been replaced.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) 12"

D. USE OF LAND WHEN RECLAIMED Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	50
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	100
Water impoundments (for wildlife, agricultural, or development)	

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

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FEB 24 1995
MISSOURI LAND
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT	TITLE	DATE
	GEOLOGIST	2-21-95

NOTARY PUBLIC EMBOSSER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)
	MISSOURI	RALLS
	SUBSCRIBED AND SWORN BEFORE ME, THIS 21st DAY OF FEBRUARY 19 95	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Shirley A. Bode — MY COMMISSION EXPIRES: 8-15-96	
	NOTARY PUBLIC NAME (TYPED OR PRINTED): SHIRLEY A. BODE	

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
Brian D. Hicks	May 25, 1995	28

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DEC 1 9 2001

MISSOURI LAND RECLAMATION COMMISSION

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

SITE INFORMATION FORM

To be completed for each seperate area of disturbance with mining operations

SITE NAME OR NUMBER: St. Francois Quarry CS54	PERMIT NUMBER: 0028
COMPANY NAME: Central Stone Company	

COUNTY	1/4 SECTION	SECTION(S)
St. Francois		24
TOWNSHIP	RANGE	ACRES
35N	5E	148

RIVER OR STREAM NAME (FOR IN-STREAM ACRES):

MINERAL COMMODITY: Limestone	ESTIMATED TONS/YEAR (FOR GRAVEL SITES):

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE): Knox County Stone Company, Inc.

ADDRESS: 1701 5th Avenue

CITY	STATE	ZIP CODE
Moline	IL	61266

SOURCE OF RIGHT TO MINE (CHECK ONE)

- [ ] MINERAL DEED
- [ ] LEASE
- [X] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [ ] OTHER (DESCRIBE):

DATE OF AGREEMENT: 11/5/01

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE): Same as above

ADDRESS:

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE)

- [ ] MINERAL DEED
- [ ] LEASE
- [ ] WARRANTY DEED
- [ ] VERBAL AGREEMENT
- [ ] OTHER (DESCRIBE):

DATE OF AGREEMENT:

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

Central Stone - St. Francois Quarry CS54
P.O. BOX 176
Jefferson City, MO 65102

TYPE OF PLAN (CHECK ONE)

[ ] SHORT TERM, FOR ONE PERMIT YEAR

[X] LONG TERM, FOR PERIOD THROUGH DATE: **6/1/40**

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Farm land, rolling hills, slightly wooded with native species .

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OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
12	[X] YES OR [ ] NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Standard earthmoving equipment will remove the topsoil.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Standard earthmoving equipment will place topsoil in berms which will be used for either sight and/or sound attenuation features or stockpiled for future reclamation.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Overburden/Spoil will either be placed in sight and sound berms around perimeter of property or stockpiled for future reclamation.

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C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE ANTICIPATED, WRITE "NONE" BELOW)

None

PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

See Map.

YES	NO	
☐	☒	Will any excavation be at or within fifty feet (50) of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right-of-way, and in no case may the excavation be closer to the right-of-way than fifty feet or twenty-five plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☐	☒	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

A. REVEGETATION (Attach additional sheets, [illegible]eeded)

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
1	Wildlife	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

No less than 75% of the areas to be left as wildlife habitat will be graded to traverseable for farm equipment. Up to 25% of said wildlife area will not be graded to allow for diverse habitat. After overburden replacement and grading are complete, where necessary, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or all of the following: Broadcast, Drilling, and/or Hydroseeding. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

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Warm Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Stems/Acre
Switchgrass	3 - 5	Alfalfa	5 - 10
Big Bluestem	6 - 8	Red Clover	3 - 5
Indian Grass	6 - 8	Lespedeza	5 - 10

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
2	Industrial	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

After Overburden replacement and grading are complete, where necessary, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or all of the following: Broadcast, Drilling, and/or Hydroseeding. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Cool Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Tall Fescue	10 - 15	Alfalfa	15 - 20
Ryegrass	10 - 15	Red Clover	5 - 10
Orchardgrass	8 - 10	Lespedeza	15 - 20
Bromegrass	6 - 8	Crownvetch	15 - 20
Timothy	4 - 6		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
3	Water Impoundments	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance: After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Pre 1990 Areas of Disturbance: After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or any combination of the following: Broadcast, Drilling, and/or Hydroseeding. Field adjustments of both quantity and species variety may be necessary to ensure adequate vegetation. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

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Cool Season Grasses		Warm Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Tall Fescue	20 - 24	Switchgrass	5 - 10	Alfalfa	8 - 12
Ryegrass	15 - 20	Big Bluestem	10 - 15	Red Clover	4 - 6
Bromegrass	8 - 16	Indian Grass	10 - 15	Lespedeza	8 - 12
Orchardgrass	4 - 6				
Timothy	3 - 5				

REVEGETATION MIX #	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
4	Agricultural	March - June and August - October

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Post 1990 Areas of Disturbance: After Topsoil / Subsoil replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Pre 1990 Areas of Disturbance: After Overburden replacement and grading are complete, soil will be worked with appropriate equipment, using recommended practices, to establish a seed bed. Seeding will be accomplished by using either the most appropriate methods and seed mixes recommended by the local soil regulatory agency (if available) or by using successful past experiences to ensure proper germination. Seeding methods may include one or all of the following: Broadcast, Drilling, and/or Hydroseeding. Lime and fertilizer will be applied according to recommendations, based upon on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1. Revegetation mixes will include one or more of the grasses and one or more of the legumes listed below:

Cool Season Grasses		Legumes	
Seeded Species	Pounds/Acre	Seeded Species	Pounds/Acre
Tall Fescue	10 - 15	Alfalfa	8 - 12
Ryegrass	8 - 12	Red Clover	4 - 6
Bromegrass	5 - 10	Lespedeza	8 - 12
Orchardgrass	4 - 6	Crownvetch	8 - 12
Timothy	3 - 5		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

Ce[illegible] Stone - St. Francois Quarry CS54

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Adjacent to 4 lane divided highway and commercial/industrial development, good industrial location with wooded perimeters. Reclaimed area above/around the perimeter of water impoundment(s) will be graded to a slope traversable by farm equipment and will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (4). Water Impoundment(s) will feature water, vertical rock faces, and will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (4). Industrial areas will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (3). Agricultural areas will meet standards as set forth in 10 CSR 40-10.050 (7) (A) (2).

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MISSOURI LAND
RECLAMATION COMMISSION

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading, where necessary/required per reclamation standards for each category of reclamation,, will be completed as set forth in 10 CSR 40-10.050 (10) (A).

REPLACEMENT OF TOPSOIL

Topsoil replacement, where necessary/required per reclamation standards for each category of reclamation, will be completed as set forth in 10 CSR 40-10.050 (10) (A).

REVEGETATION

Revegetation, where necessary/required per reclamation standards for each category of reclamation, will be completed as set forth in 10 CSR 40-10.050 (10) (B).

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12" where necessary and/or required

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES
Wildlife (forest or other habitat with livestock excluded)	49 +/-
Agricultural (pasture, cropland, and horticultural)	3 +/-
Development (residential, industrial, and recreational)	81 +/-
Water impoundments (for wildlife, agricultural, or development)	15 +/-

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED
MAR 5 2002
MISSOURI LAND
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT	TITLE	DATE
[signature]	Manager Environmental Services	3/1/02

NOTARY PUBLIC EMBOSSER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)
	Illinois	Rock Island
	SUBSCRIBED AND SWORN BEFORE ME, THIS 1st DAY OF March 19 2002	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Rexann M. Garmoe	MY COMMISSION EXPIRES: 11-9-03
	NOTARY PUBLIC NAME (TYPED OR PRINTED): Rexann M. Garmoe	"OFFICIAL SEAL" REXANN M. GARMOE Notary Public, State of Illinois My Commission Expires 11-9-2003

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
[signature]	7-29-02	0028

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

SITE INFORMATION FORM

RECEIVED
FEB 21 1995
MISSOURI LAND
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER	PERMIT NUMBER
CS39 - TAYLOR	28

COMPANY NAME
CENTRAL STONE COMPANY

COUNTY	1/4 SECTION	SECTION
MARION	SE	24
TOWNSHIP	**RANGE**	**ACRES**
T59N	R6W	130

RIVER OR STREAM NAME (FOR IN-STREAM ACRES)

MINERAL COMMODITY	ESTIMATED TONS/YEAR (FOR GRAVEL SITES)
LIMESTONE	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)
CHRISTNER ENTERPRISES

ADDRESS
R.R. 1

CITY	STATE	ZIP CODE
TAYLOR	MISSOURI	63471

SOURCE OF RIGHT TO MINE (CHECK ONE):

- ☐ MINERAL DEED
- ☐ WARRANTY DEED
- ☐ OTHER (DESCRIBE): _____
- ☐ LEASE
- ☐ VERBAL AGREEMENT

DATE OF AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)
SAME AS ABOVE

ADDRESS

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

- ☐ MINERAL DEED
- ☐ WARRANTY DEED
- ☐ OTHER (DESCRIBE): _____
- ☐ LEASE
- ☐ VERBAL AGREEMENT

DATE OF AGREEMENT

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MISSOURI DEPARTMENT OF TURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

RECEIVED
FEB 21 1995
MISSOURI LAND
RECLAMATION COMMISSION

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):
☐ SHORT TERM, FOR ONE PERMIT YEAR
☒ LONG TERM, FOR PERIOD THROUGH DATE: 12-31-2010

CS39

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Quarry area and reserves lie in the gently rolling hills boardered by the Mississippi River flood plain on the east and the Favius River on the north. A large percentage of this area is being farmed, except for the bluff on the north and east sides that are heavily timbered (cottonwood, oak trees) and wooded gullies draining into the bottoms disecting the farm ground. The predominate soil type is Menfro Silt Loam.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

Subsoil 56" +/- 6 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

The topsoil will be removed and saved by scrapers and dozers.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

After scrapers removed the topsoil, it will be placed near bluff. If it is not used to cover spoil areas right after grading, it will be seeded and mulched for erosion protection.

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

The property owner has the right to sell all the spoil (minus topsoil) that he is able to sell. If it is not sold, it will either be taken to the river bottoms for fill and additional stockpile area, used for berms along property lines, or filling gulleys that dissect the farm ground along the edge of the bluff. The property owner has some rights for placement areas that are economically feasible .

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

SEE MAP

YES	NO	
☐	☒	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☐	☒	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
5 - 3 PASTURE MIX	PASTURE	LATE SPRING / FALL

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Spoil will be tested and fertilized according to test results. If seeded in early spring, seed will be broadcast. If planting is done in the fall, it will be drilled.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
5-3 Pasture Mix - See enclosed species chart.	20	---	---

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

PASTURE & PLOWDOWN MIXTURE CHART

	X Pasture			Grass	70/30	Plow-down
	5-3	3-1	K-10	W-Way		
Alfalfa, VNS	15%	28%	12%			
Jubilee Alfalfa		5%	6%			
Cimarron Alfalfa		10%	5%			
Alsike Clover	11%		9%			20%
Ladino Clover	4%	5%				
Arlington Red Clover		18%	21%			
Red Clover	18%					
Mammoth Clover					70%	25%
Korean Lespedeza	10%					
Kentucky 31 Tall Fescue				60%		
Orchard Grass	15%	34%	17%			
Perennial Rye	15%		12.5%	15%		
Annual Rye			5%	15%		
Timothy	12%		12.5%	10%		10%
Y.B. Sweet Clover					30%	45%

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

If spoil is taken to the bottoms, it will be leveled and be a continuation of our present stockpile area. The outside slopes will be 3:1. If spoil is placed in berms, the top will be flat (8' wide) with 3:1 slopes. The spoil placed in fulleys will be flat and the same elevation as the farm ground, with outside slopes 3:1 .

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

As spoil is being removed.

REPLACEMENT OF TOPSOIL

After grading

REVEGETATION

Depends on time of year work is being done. As soon after topsoil placement as is possible.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

1'

D. USE OF LAND WHEN RECLAIMED

Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	35
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	95
Water impoundments (for wildlife, agricultural, or development)	

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT	TITLE	DATE
[illegible]	GEOLOGIST	2-16-95

NOTARY PUBLIC EMBOSSER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)
	MISSOURI	RALLS
	SUBSCRIBED AND SWORN BEFORE ME, THIS 17th DAY OF February 19 95	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Shirley A. Bode — MY COMMISSION EXPIRES: 8-15-96	
	NOTARY PUBLIC NAME (TYPED OR PRINTED): SHIRLEY A. BODE	

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
Brian P. Hicks	May 25, 1995	28

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION

SITE INFORMATION FORM

RECEIVED
FEB 2 1 200
MATION COMMISSIO

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER: CS11 WEST QUINCY	PERMIT NUMBER: 0028
COMPANY NAME: CENTRAL STONE COMPANY	

COUNTY	1/4 SECTION	SECTION
MARION		1, 2

TOWNSHIP	RANGE	ACRES
T59N	R6W	TOTAL 121 45 (OLD) 76 (NEW)

RIVER OR STREAM NAME (FOR IN-STREAM ACRES): DOES NOT APPLY	
MINERAL COMMODITY: SAND / GRAVEL	ESTIMATED TONS/YEAR (FOR GRAVEL SITES):

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE): * SEE ATTACHED SHEET

ADDRESS:

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

- [ ] MINERAL DEED
- [ ] WARRANTY DEED
- [ ] OTHER (DESCRIBE):
- [x] LEASE
- [ ] VERBAL AGREEMENT

DATE OF AGREEMENT:

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE): (SAME AS LANDOWNER LIST)

ADDRESS:

CITY	STATE	ZIP CODE

SOURCE OF RIGHT TO MINE (CHECK ONE):

- [ ] MINERAL DEED
- [ ] WARRANTY DEED
- [ ] OTHER (DESCRIBE):
- [x] LEASE
- [ ] VERBAL AGREEMENT

DATE OF AGREEMENT:

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

MO 780-1036 (12-91)

RECEIVED
FEB 2 1 2002
MISSOURI LAND
COMMISSION

LAND OWNERSHIP LIST

(76 Acres New)

Haerr Partnership consisting of:

Norman Haerr and (Local representatives in charge)
Sally Haerr
201 Co. Rd. 313
Taylor, MO 63471

Lenard Meyer and
Charlotte Meyer
4340 Brummel
Skokie, IL 60076

Raymond Haerr and
Gelene Haerr
3128 Monterey Road
Bloomington, IL 61704-2911

Irvin B. Schafer.
Bruce Schafer, and
Lauretta M. Schafer
5324 Glen Stewart Way
Indianapolis, IN 46254

(45 Acres Old)

Norman Haerr and (Local representatives in charge)
Sally Haerr
201 Co. Rd. 313
Taylor, MO 63471

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JAN - 3 2002

MISSOURI LAND RECLAMATION COMMISSION

MISSOURI DEPARTMENT OF NATURAL RESOURCES
LAND RECLAMATION COMMISSION
MINE PLAN

P.O. BOX 176
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):
☐ SHORT TERM, FOR ONE PERMIT YEAR
☑ LONG TERM, FOR PERIOD THROUGH DATE: 2020

COMPANY NAME CENTRAL STONE COMPANY

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

AFFECTED AREA LIES IN THE MISSISSIPPI FLOOD PLAIN. ENCLOSED IS A MAP SHOWING THE TOPOGRAPHY ON THE PROPERTY. THE SOIL TYPE IS FATIMA SILT LOAM. THE AREA IS PRESENTLY BEING FARMED.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL PRIOR TO LAND RECLAMATION COMMISSION PERMITTING: 24"± INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE? ☑ YES OR ☐ NO WHATEVER IS NOT USED WILL BE SOLD

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

THE TOPSOIL WILL BE REMOVED BY SCAPPERS AND DOZIERS OR BY COMPANY PERSONAL USING DOZIERS, ENLOADERS AND TRUCKS.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

TOPSOIL WILL BE STORED AROUND THE OUTSIDE EDGES OF THE LAKE TO ACT AS A BERM AND WHEN ALL RESERVES HAVE BEEN PUMP - TOPSOIL BERM WILL BE USED TO RECLAIM THE FINAL SLOPE ALONG OF SAND ALONG THE EDGE OF THE LAKE.

THE BERM WILL BE 4'± IN HEIGHT, WITH 3:1 SIDES AND WILL BE SEEDED WILL PASTURE MIX FOR PROTECTION

PERMIT NO. _____ SITE NO. +/or NAME

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JAN - 3 2002

MISSOURI LAND RECLAMATION COMMISSION

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

THE SPOIL IS SANDY IN NATURE AND WILL BE PUMPED ALONG WITH THE DEPOSIT. HOWEVER, IF ANY CONSTRUCTION JOBS COME ALONG NEEDING SPOIL SOME MIGHT BE SOLD OR GIVEN TO CONTRACTORS AS NEED. HOWEVER, MOST WILL END UP IN OUR LA

C. ACID MATERIALS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE ARE PRESENT

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

SEE ENCLOSED MAPS

YES	NO	
☒	☐	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
☐	☒	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
☐	☒	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

A. REVEGETATION (Attach additional sheets, if needed)

REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
	RECREATION - PRIVATE	SPRING - FALL

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

BROADCAST AND DRILL SEEDING - ALSO BROADCAST FERTILIZER / LIME IF NEEDED

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FEB 04 2002
MISSOURI LAND RECLAMATION COMMISSION

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
1.) FESCUE	15 LBS		
2.) RED TOP	5 LBS		
3.) BROMEGRASS	5 LBS		
4.) RYE	5 LBS		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

RECEIVED
FEB 21 2002
MINE LAND RECLAMATION COMMISSION

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

THE AFFECTED AREA (76 AC), WILL BE MADE UP OF A LAKE CREATED BY PUMPING (60AC), A 3:1 BACKSLOPE FROM THE EDGE OF THE EXCAVATION (6 AC), A 30' BERM WITH 3:1 BACK SLOPE AND 10' TOP (WIDE) OF TOPSOIL (5AC) THAT WILL BE USED TO RECLAIM THE 6AC. OF BACKSLOPE AROUND PERIMETER OF LAKE. THIS WILL ASLO BE USED AS ACCESS ROAD. AT THE SOUTH END OF THE LAKE THERE WILL ALSO BE A 5AC TOPSOIL SPOIL PILE WITH 3:1 SIDES THAT THE OWNER OF THE PROPERTY WILL SELL ON OCCASION AND WILL EVENTUALLY USED FOR A RESIDENTIAL AREA.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

BERM AND TOPSOIL STORAGE AREAS WILL BE GRADED RIGHT AFTER PLACEMENT. THE 3:1 SLOPE ALONG THE LAKE WILL ALSO BE GRADED AFTER AREAS ARE PUMPED.

REPLACEMENT OF TOPSOIL

AS THE LAKE EXPANDS AND THE LAKE AREA HAS RESERVES REMOVED, THE FINAL SLOPE WILL BE GRADED AND THE STORED TOPSOIL WILL BE PLACED 1' THICK ON THIS SLOPE

REVEGETATION

SEEDING AND MULCHING WILL BE DONE AFTER TOPSOIL PLACEMENT — ALL WILL BE DONE IN FALL AFTER ALL FINAL SLOPES ARE COMPLETED.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) 18" TO 20"

D. USE OF LAND WHEN RECLAIMED Estimate acreage of each land use below, after reclamation	WEST SIDE (OLD BONDED) ESTIMATED ACRES 45 TOTAL	EAST SIDE (NEW) ESTIMATED ACRES: 76 TOTAL
Wildlife (forest or other habitat with livestock excluded)	- 0 -	- 0 -
Agricultural (pasture, cropland, and horticultural)	- 0 -	- 0 -
Development (residential, industrial, and recreational)	REC. 7 AC. 3:1 BACKSLOPE	REC. 6 - BACKSLOPE 3:1 ROAD - 5 - INDUSTRIAL RES - 5
Water impoundments (for wildlife, agricultural, or development)	38	60 AC.

RECEIVED

J[illegible] - [illegible] 2002

[illegible]URI LAND
[illegible] COMMISSION

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.

3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT	TITLE	DATE
[signature]	GEOLOGIST	11-27-01

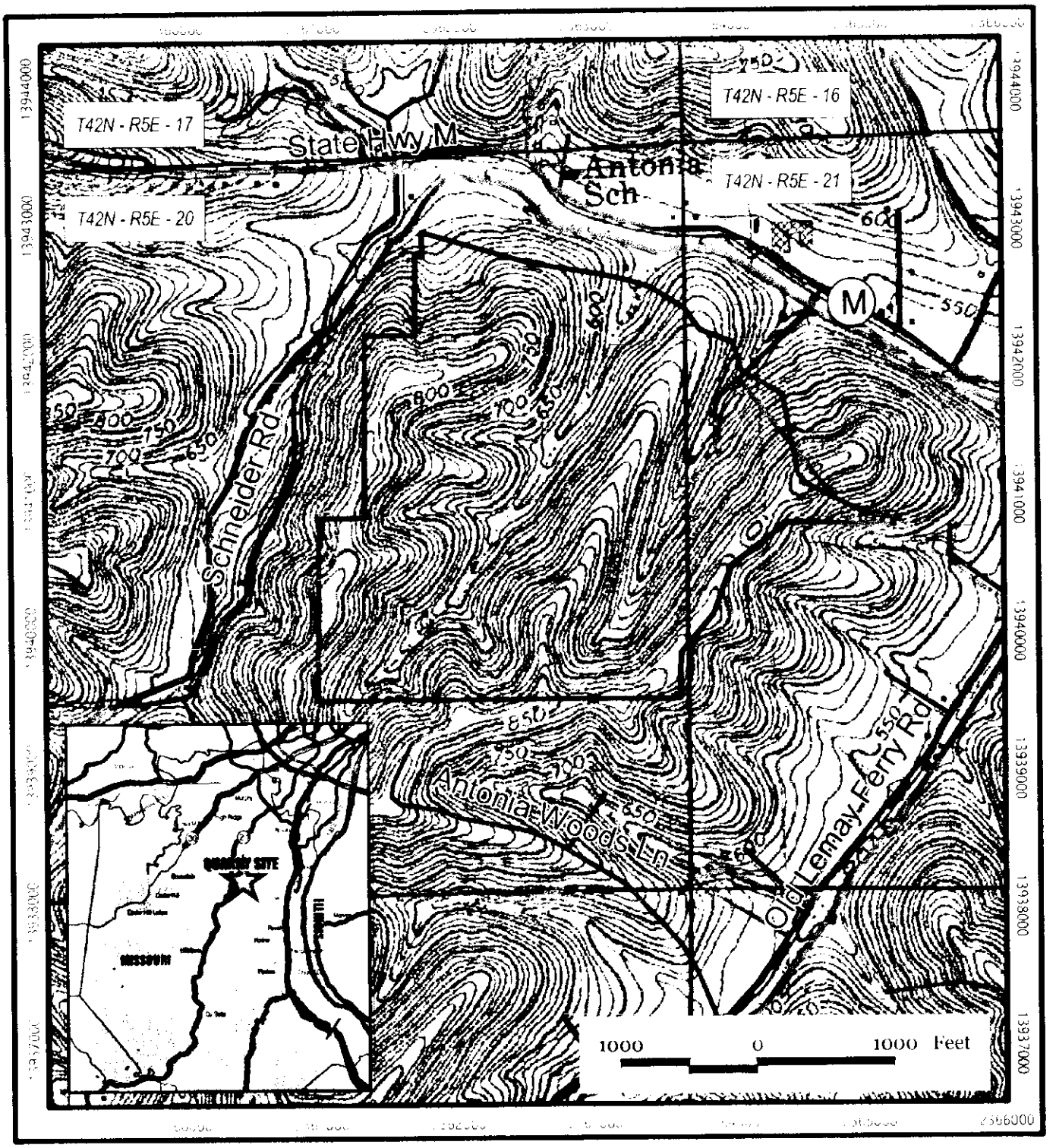
NOTARY PUBLIC EMBOSSER SEAL	STATE	COUNTY (OR CITY OF ST. LOUIS)
	Missouri	Ralls
	SUBSCRIBED AND SWORN BEFORE ME, THIS 27th DAY OF November 2001	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE: Shirley A. Bode — MY COMMISSION EXPIRES: 8-15-04	
	NOTARY PUBLIC NAME (TYPED OR PRINTED): Shirley A. Bode	

APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
[signature]	3-18-02	0028

PERMIT NO. SITE NO. +/or NAME

Antonia Quarry

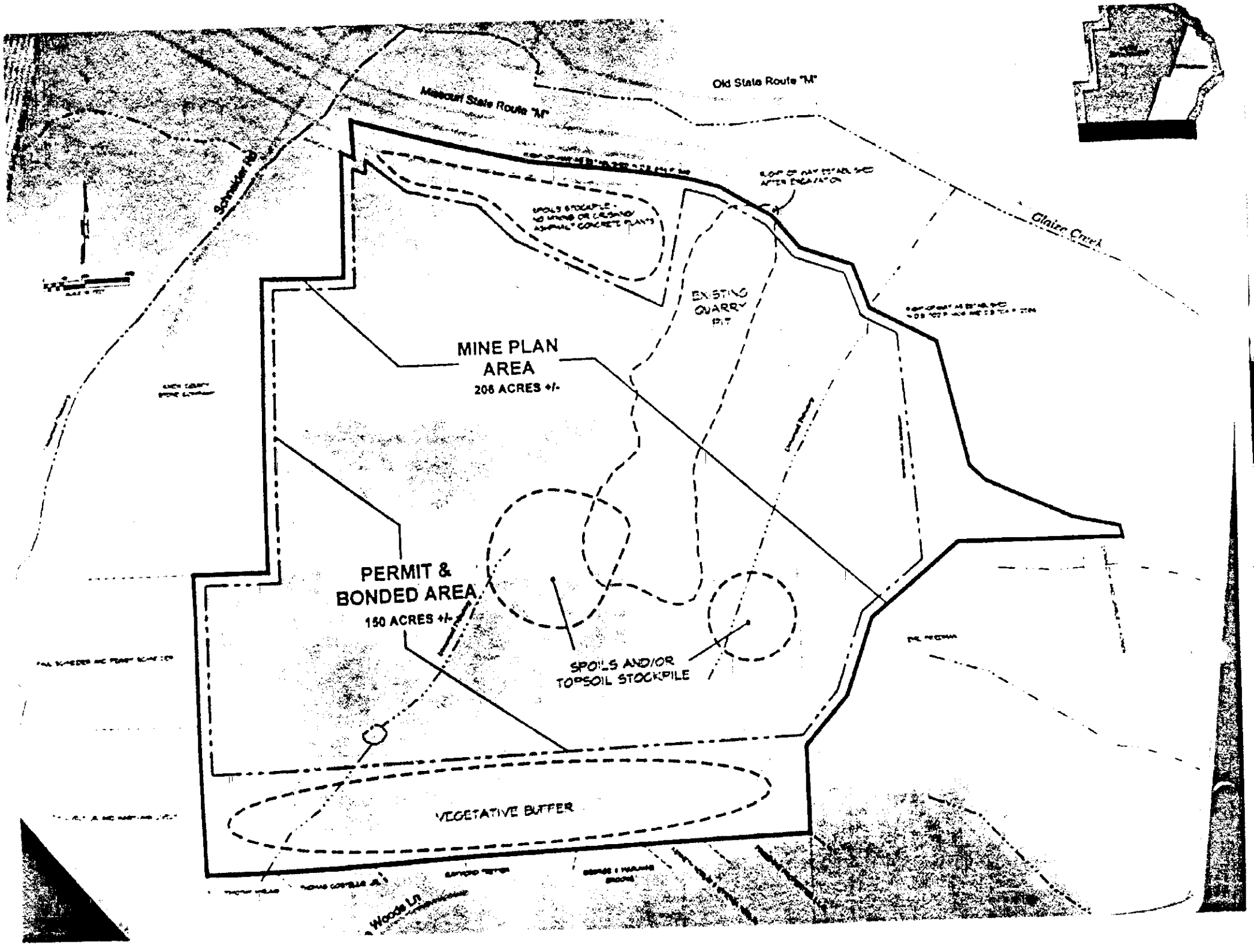
Jefferson County, Missouri

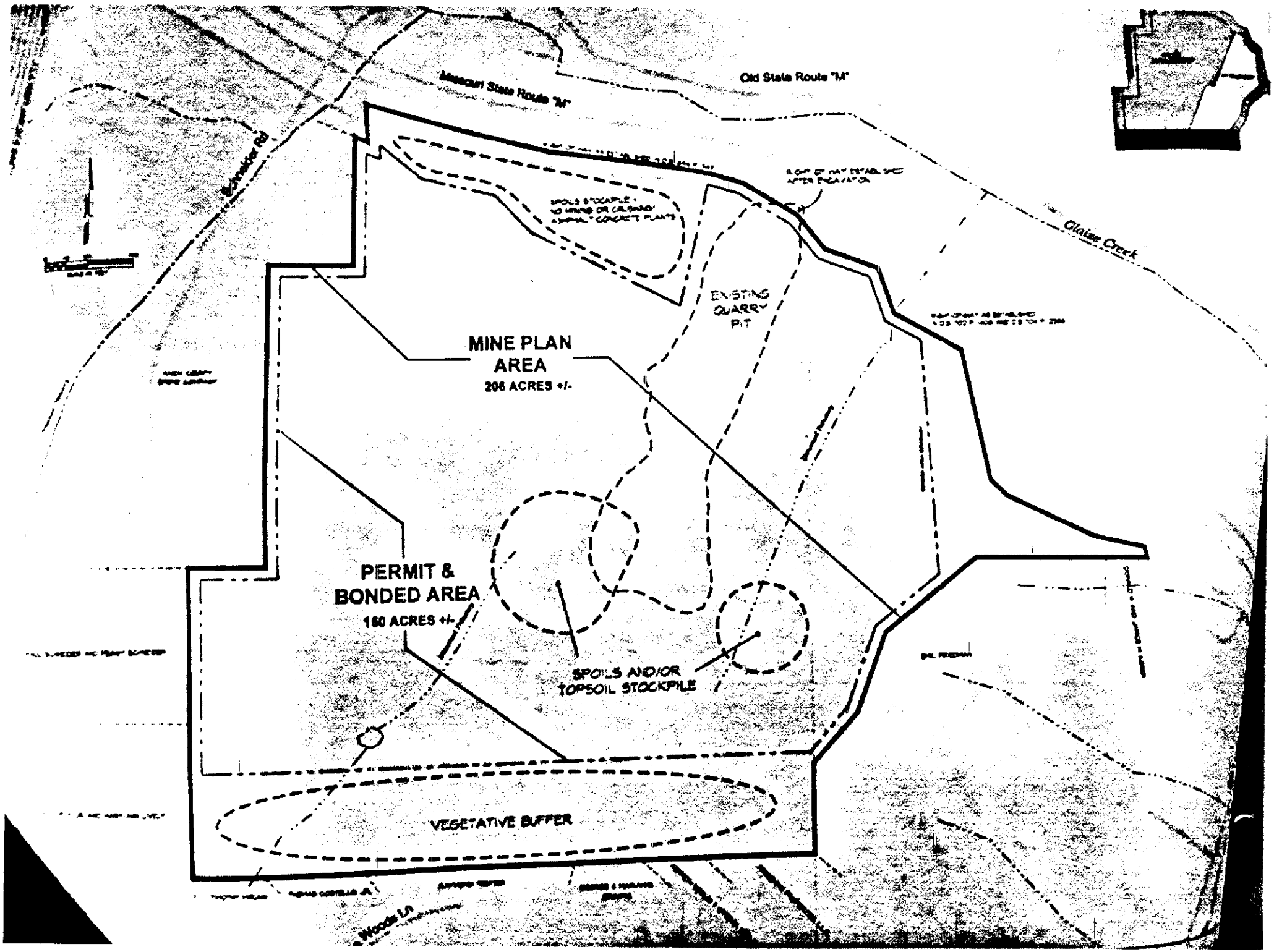


Grid values are in feet and correspond to the UTM, Zone 15, NAD 1983 Datum.

Legend

Quarry Boundary — Section Lines — Roads — Hydrology


Missouri State Route "M"
Old State Route "M"
Schneider Rd
Glaize Creek
EXISTING QUARRY PIT
MINE PLAN AREA
208 ACRES +/-
PERMIT & BONDED AREA
150 ACRES +/-
SPOILS AND/OR TOPSOIL STOCKPILE
VEGETATIVE BUFFER
Woods Ln



Missouri State Route "M"
Old State Route "M"
Schneider Rd
Glaize Creek
EXISTING QUARRY PIT
MINE PLAN AREA
206 ACRES +/-
PERMIT & BONDED AREA
150 ACRES +/-
SPOILS AND/OR TOPSOIL STOCKPILE
VEGETATIVE BUFFER
Woods Ln

Old State Route "M"

Missouri State Route "M"

Old State Route "M"

Schneider Rd

Glaize Creek

0 100 200 400
SCALE IN FEET

RIGHT-OF-WAY AS ESTABLISHED IN D.B. 644 P. 343

RIGHT OF WAY ESTABLISHED AFTER EXCAVATION

SPOILS STOCKPILE - NO MINING OR CRUSHING/ ASHPHALT/CONCRETE PLANTS

EXISTING QUARRY PIT

RIGHT-OF-WAY AS ESTABLISHED IN D.B. 702 P. 1408 AND D.B 704 P. 2386

MINE PLAN AREA
206 ACRES +/-

KNOX COUNTY STONE COMPANY

Unnamed Tributary

Unnamed Tributary

BONDED AREA BOUNDARY

PERMIT & BONDED AREA
150 ACRES +/-

Unnamed Tributary

SPOILS AND/OR TOPSOIL STOCKPILE

PAUL SCHNEIDER AND PEGGY SCHNEIDER

EMIL FRIEDMAN

DONALD H. AND JANICE M. KOSER

T.M. LIVELY, JR. AND MARY-ANN LIVELY

VEGETATIVE BUFFER

Old LeMay Ferry Rd

TIMOTHY MIRIANI

THOMAS COSTELLO, JR.

RAYMOND TRETTER

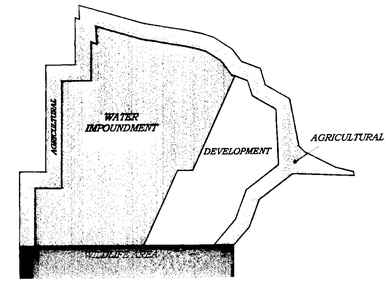
GEORGE & MARIANNE BROOKS

KENNETH NOBLIN & CYNTHIA NOBLIN

FRIEDMAN PROPERTIES, L.L.C.

Antonia Woods Ln

POST MINE LAND USE



SHIVE-HATTERY
Cedar Rapids, IA · Iowa City, IA · Des Moines, IA
Moline, IL · Bloomington, IL · Chicago, IL
SHIVE-HATTERY, INC. 1701 RIVER DRIVE, SUITE 200 MOLINE,IL 61265
PHONE (309) 764-7550 FAX (309) 764-6816
http://www.shive-hattery.com

ANTONIA QUARRY - CS56
CENTRAL STONE COMPANY

LAND RECLAMATION - PERMIT NO. 0028
T42N - R5E - SEC 20 & 21
JEFFERSON COUNTY, MISSOURI

REVISIONS
REV. NO.
APPROVED DATE
REV. NO.
APPROVED DATE
REV. NO.
APPROVED DATE

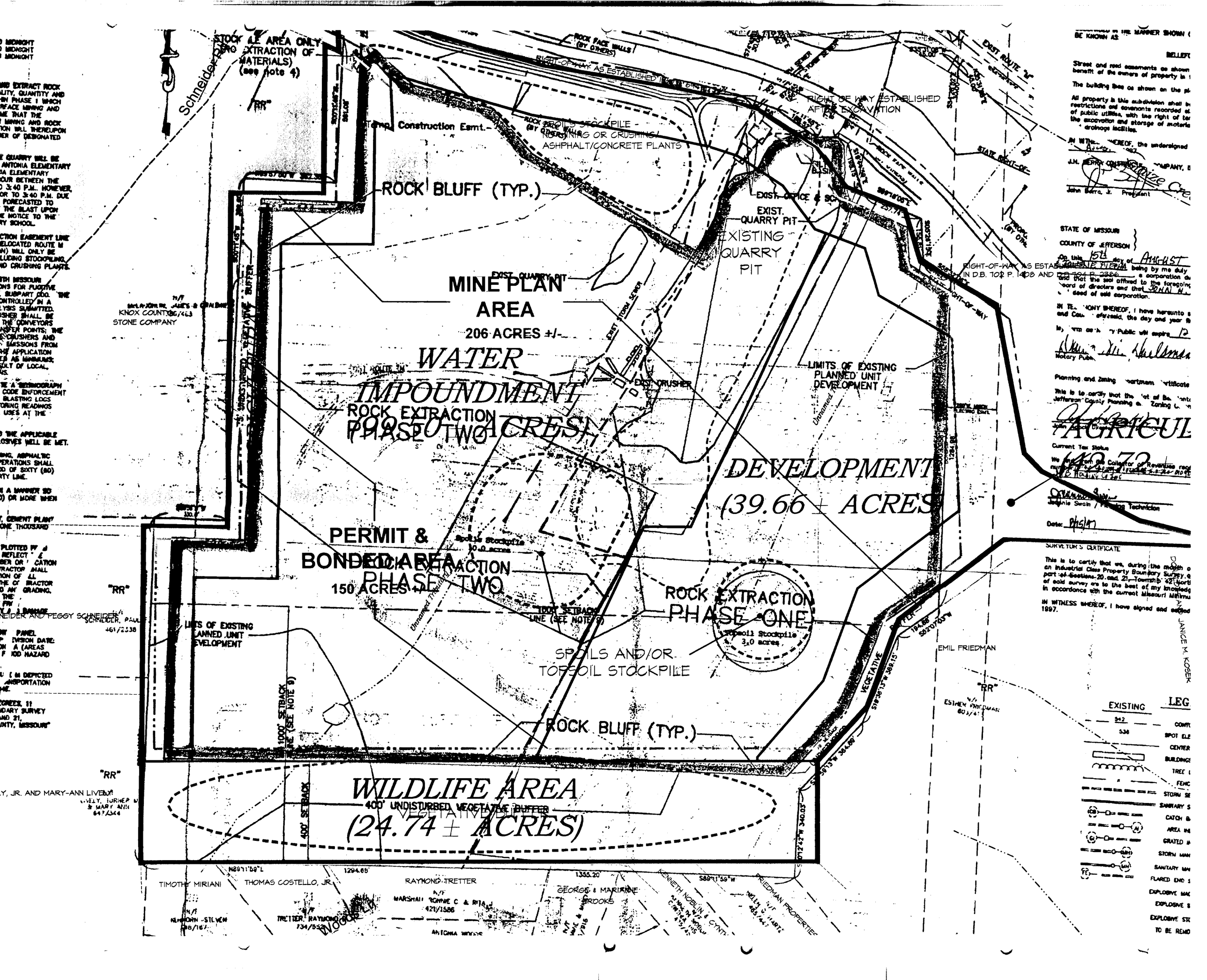
DRAWN RAW
APPROVED
ISSUED FOR FINAL
DATE 3-26-02
FIELD BOOK

SHEET NAME
DETAIL MAP
ANTONIA QUARRY
CS-56

SCALE: 1"=200 FEET

PROJECT NO. 301434-0

SHEET NO.



STOCKPILE AREA ONLY (NO EXTRACTION OF MATERIALS) (see note 4)
Schneider Rd.
"RR"
Temp. Construction Esmt.
ROCK FACE WALLS (BY OTHERS)
RIGHT-OF-WAY AS ESTABLISHED
RIGHT OF WAY ESTABLISHED AFTER EXCAVATION
SPOILS STOCKPILE - NO MINING OR CRUSHING/ ASHPHALT/CONCRETE PLANTS
ROCK BLUFF (TYP.)
EXIST. OFFICE & SCALE
EXIST. QUARRY PIT
EXISTING QUARRY PIT
MINE PLAN AREA
206 ACRES +/-
EXIST. QUARRY PIT
EXIST. STORM SEWER
EXIST. CRUSHER
WATER IMPOUNDMENT
ROCK EXTRACTION PHASE TWO
(99.50 ± ACRES)
LIMITS OF EXISTING PLANNED UNIT DEVELOPMENT
DEVELOPMENT
(39.66 ± ACRES)
PERMIT & BONDED AREA
ROCK EXTRACTION PHASE TWO
150 ACRES +/-
Spoils Stockpile 10.0 acres
ROCK EXTRACTION PHASE ONE
Topsoil Stockpile 3.0 acres
1000' SETBACK LINE (SEE NOTE 9)
SPOILS AND/OR TOPSOIL STOCKPILE
LIMITS OF EXISTING PLANNED UNIT DEVELOPMENT
ROCK BLUFF (TYP.)
WILDLIFE AREA
400' UNDISTURBED VEGETATIVE BUFFER
(24.74 ± ACRES)
400' SETBACK
KNOX COUNTY STONE COMPANY
EMIL FRIEDMAN
"RR"
TIMOTHY MIRIANI
THOMAS COSTELLO, JR.
RAYMOND TRETTER
GEORGE & MARIANNE BROOKS
KENNETH NOBLIN & CYNTHIA
FRIEDMAN PROPERTIES
EXISTING
LEG

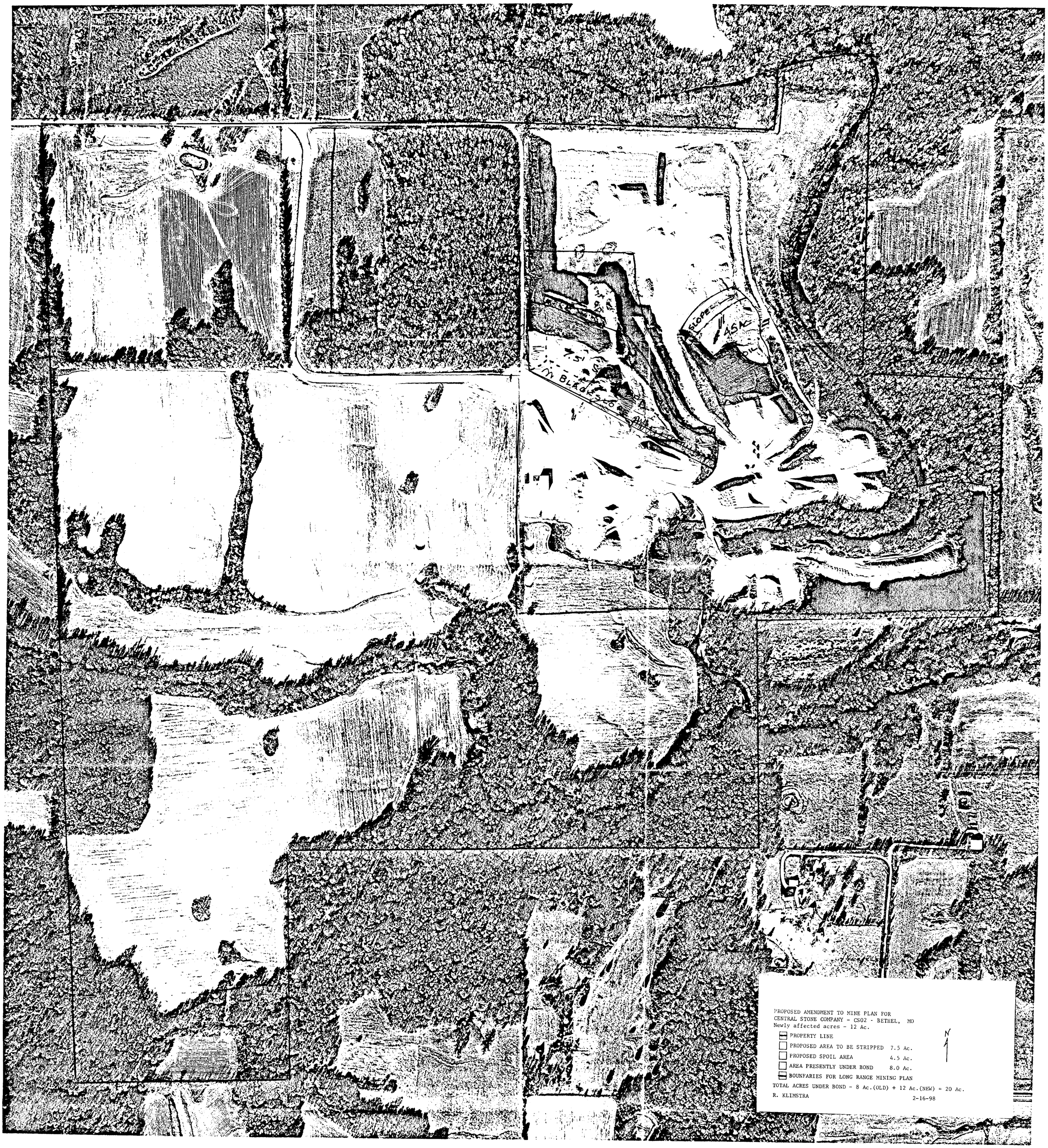

SLOPE
45%
BLADES
PROPOSED AMENDMENT TO MINE PLAN FOR
CENTRAL STONE COMPANY - CS02 - BETHEL, MO
Newly affected acres - 12 Ac.
PROPERTY LINE
PROPOSED AREA TO BE STRIPPED 7.5 Ac.
PROPOSED SPOIL AREA 4.5 Ac.
AREA PRESENTLY UNDER BOND 8.0 Ac.
BOUNFARIES FOR LONG RANGE MINING PLAN
TOTAL ACRES UNDER BOND - 8 Ac.(OLD) + 12 Ac.(NEW) = 20 Ac.
R. KLIMSTRA
2-16-98
N

PHOTO SHOWS ALL PROPERTY OWN BY CENTRAL STONE COMPANY - AS OF 1-1-95 - CS02 BETHEL, MO.

ALSO LAND USE & LONG RANGE PLAN AREAS

— PROPERTY LINE — LONG RANGE MINE PLAN

☐ WILDLIFE AREAS - 35AC

▨ INDUSTRIAL (STOCKPILE, QUARRY FLOOR, ETC) - 103 AC.

1" = 825'

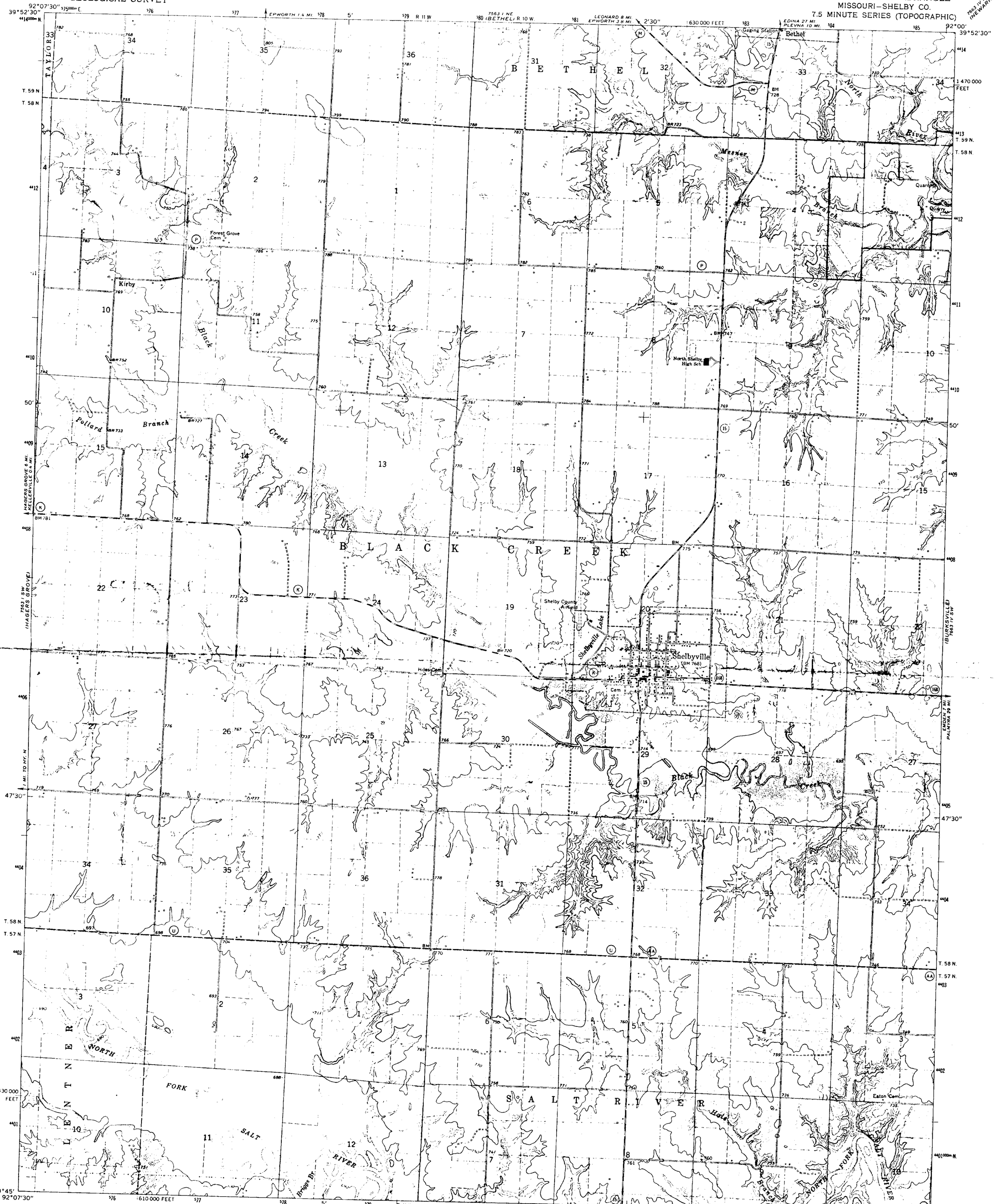
R. KLIMSTRA

RECEIVED
APR 28 1995
MISSOURI LAND RECLAMATION COMMISSION

TOPOGRAPHIC MAP - CS02 BETHEL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SHELBYVILLE QUADRANGLE
MISSOURI–SHELBY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1960–61. Field checked 1964

Polyconic projection. 1927 North American datum
10,000-foot grid based on Missouri coordinate system, central zone
1000-metre Universal Transverse Mercator grid ticks, zone 15, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1964 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND BY THE DIVISION OF RESEARCH AND TECHNICAL INFORMATION
MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MISSOURI
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Medium-duty — Light-duty
Unimproved dirt
State Route

SHELBYVILLE, MO.
N3945—W9200/7.5
1964
AMS 7563 I SE—SERIES V79

RECEIVED
DEC 09 1993
MISSOURI LAND RECLAMATION COMMISSION

AIR PHOTO SHOWING CENTRAL STONE COMPANY - CS12
BOWLING GREEN LOCATION - SEC. 29, T54N, R3W
PIKE COUNTY, MO
Proposed Stripping Plan - 1995

- Property Line (Mine - Plan Boundary)
- Area Stripped - 8.8 Acres
- Spoil Area - Seed - 4.4 Acres (Wildlife)
- Permit Boundary: Area of shale placement - used for Stockpile/Plant site - 11 Acres
- Berm Area - Wildlife - 1.8 Acres

TOTAL ACRES 26 - Affected 1995-96

Scale 1" = 200'

R. KLIMSTRA

N

SPOIL AREA 4 AC

AREA STRIPPED 8.8 AC

AREA 11 AC

BERM

BERM

CREEK

Sidewalk
Building
Foundation
Fence
Wall
Tree Line
Stream
Index Contour
Intermediate Contour
Depression Contour
Guard Rail
Swamp Symbol
Control Point
Area of potentially unreliable contours

Spot Elevation
Single Tree
Locating Object
Catch Basin
Manhole
Pole
Sign
Hydrant
Gravel Road
Unpaved Road
Rail
Power Line
Fire Hydrant
Street Light

PHOTOGRAMMETRIC MAP

Prepared for:
Central Stone

Prepared by:
Hudson & Associates
1650 Hedgemore Dr.
Fenton, MO 63026

Scale: 1" = 200' Contour Int.

Photos Flown: 11-1-94

Compiled: 94-10-25

Links Land Surveying, Inc.

Prepared:

Plan detail (auto plot) from photogrammetric digital data. Contours are computer generated from digital terrain model (Points plus break lines)

CLIFFORD BANK

Since 1871

Business 54 & 61
Bowling Green, Mo. 63334
324-3396

State Route D & 61
Eolia, Mo. 63344
485-7171

410 S. Second
Clarksville, Mo. 63336
242-3517

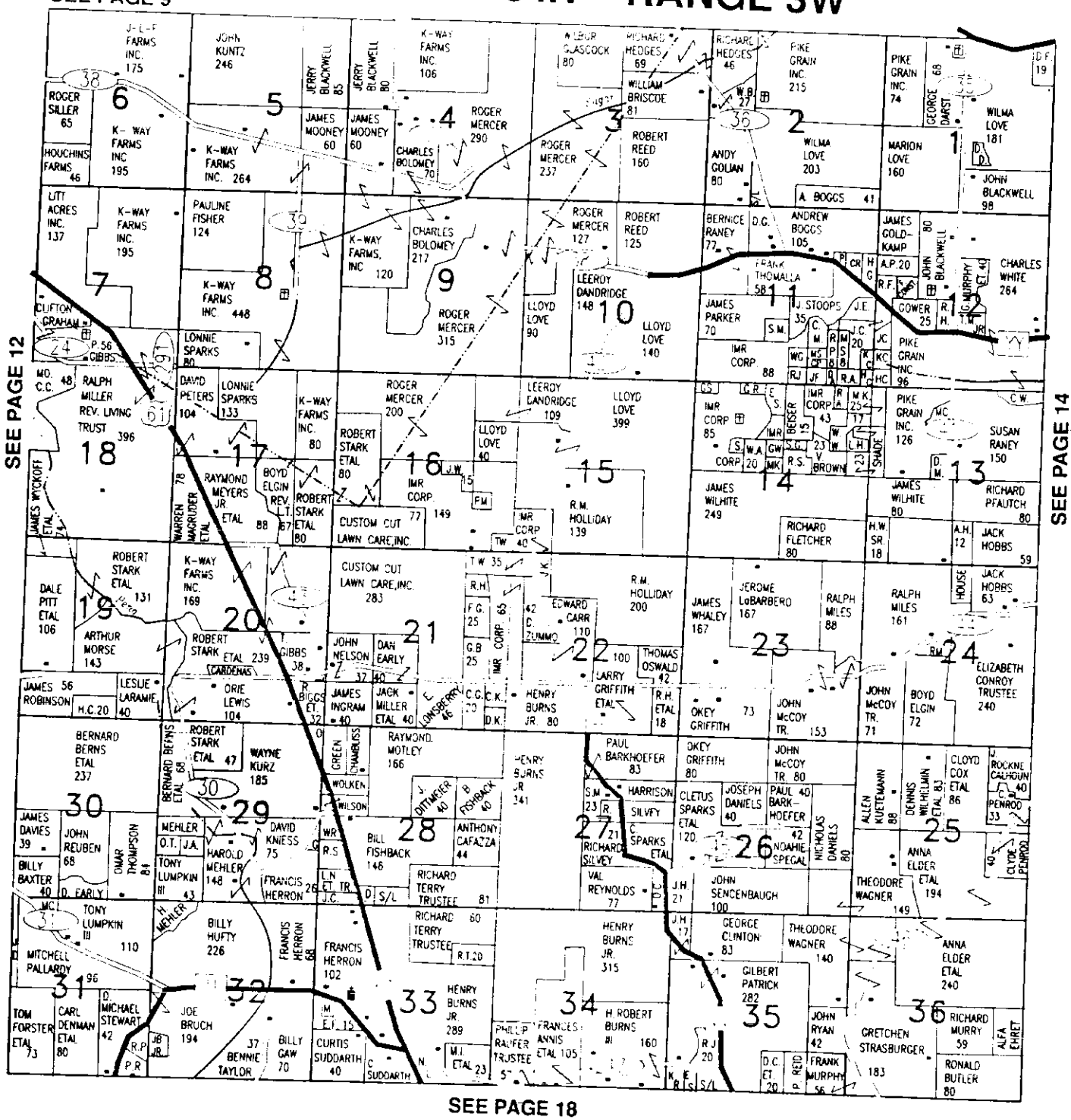
115 N. Lincoln
Troy, Mo. 63379
528-2525

FDIC

RECEIVED
JUN 28 1995
MISSOURI LAND RECLAMATION COMMISSION

TOWNSHIP 54N • RANGE 3W

SEE PAGE 9



SEE PAGE 12

SEE PAGE 14

SEE PAGE 18

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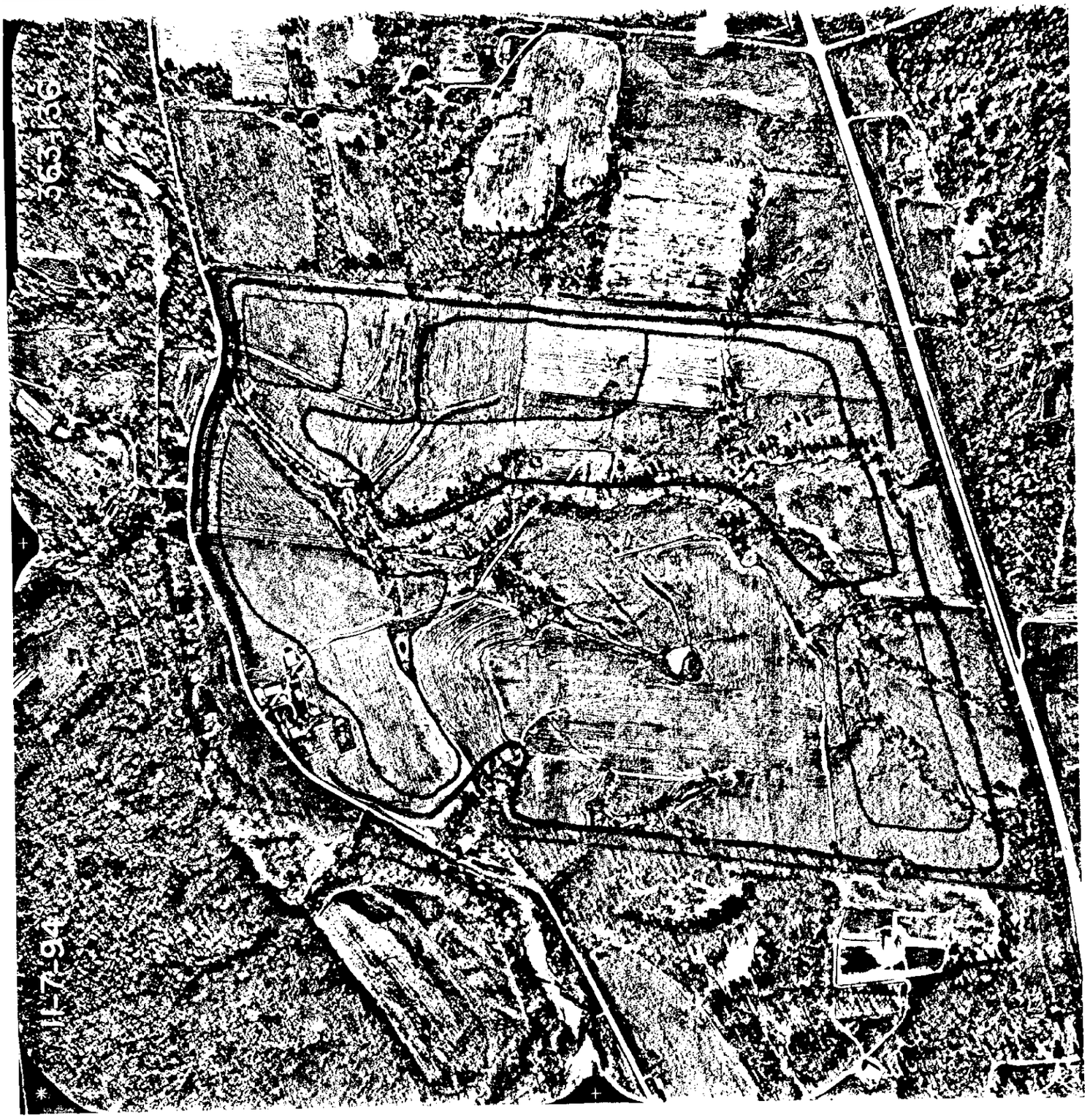
CS12



MAP SHOWING LONG RANGE MINE PLAN - CENTRAL STONE COMPANY - CS12 - BOWLING GREEN - SEC. 29, T54N, R3W, PIKE C

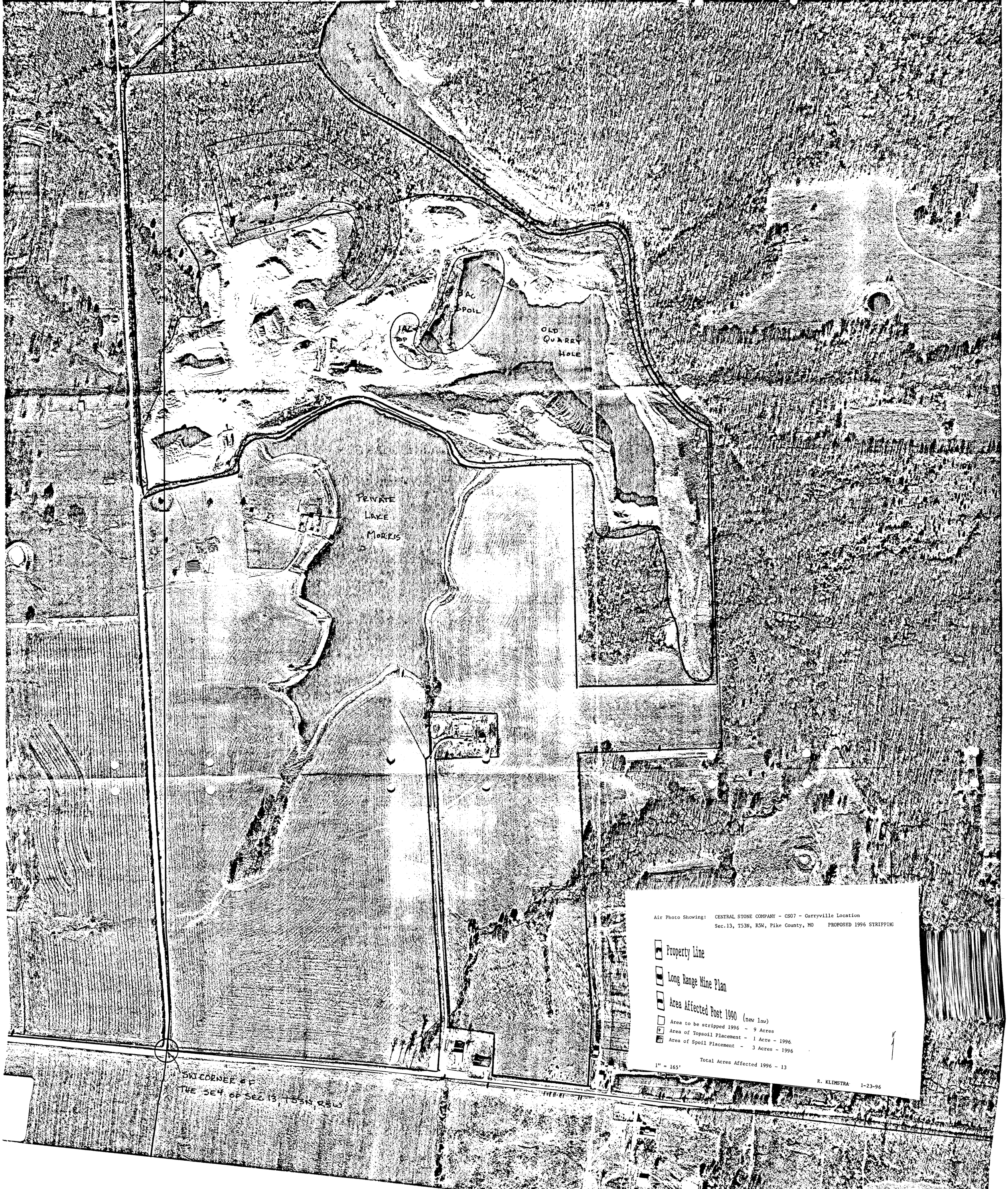
- PROPERTY LINE -
- INDUSTRIAL AREAS - QUARRY - (36 AC)
- BERMS - (23 AC) -
- WILDLIFE AREAS - (6 AC)
- CROP GROUND / PASTURE - NOT AFFECTED (119 AC)
- SPOIL BACKFILLED IN QUARRY - WILDLIFE - (12 AC)
- INDUSTRIAL AREA - STOCKPILE / WORK - (36 AC)

N

CS12

TOTAL 232 AC.

R. KLIMSTRA 6-13-95 1" = 628'

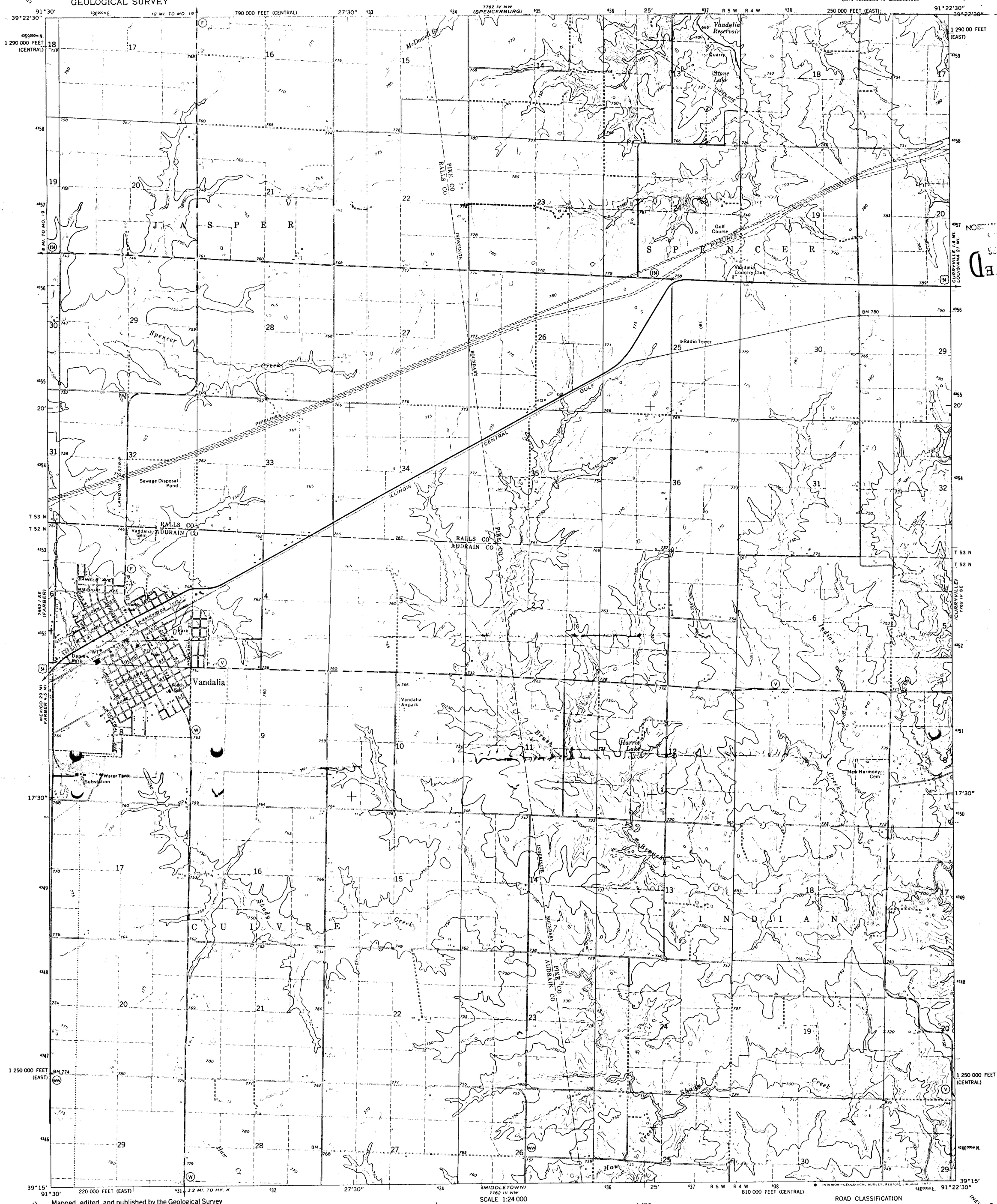

LAKE VANDALIA
BAC POLL
OLD QUARRY HOLE
PRIVATE LAKE MORRIS
SW CORNER OF THE SE¼ OF SEC 13, T53N, R5W
Air Photo Showing: CENTRAL STONE COMPANY - CS07 - Curryville Location
Sec.13, T53N, R5W, Pike County, MO PROPOSED 1996 STRIPPING
Property Line
Long Range Mine Plan
Area Affected Post 1990 (new law)
Area to be stripped 1996 - 9 Acres
Area of Topsoil Placement - 1 Acre - 1996
Area of Spoil Placement - 3 Acres - 1996
Total Acres Affected 1996 - 13
1" = 165'
R. KLIMSTRA 1-23-96

Central Stone Company
Pike County
CS07 - Curryville

2/96
Prepared by:
R. Klimstra

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

VANDALIA QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 VANDALIA 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1972. Field checked 1973

Projection: Missouri coordinate system, east zone (transverse Mercator)
10,000-foot grid ticks based on Missouri coordinate system, east and central zones
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue. 1927 North American datum

Red tint indicates area in which only landmark buildings are shown

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
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MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

— LEASED AREA

RECEIVED
FEB 5 1996
MISSOURI LAND COMMISSION

QUADRANGLE LOCATION

ROAD CLASSIFICATION

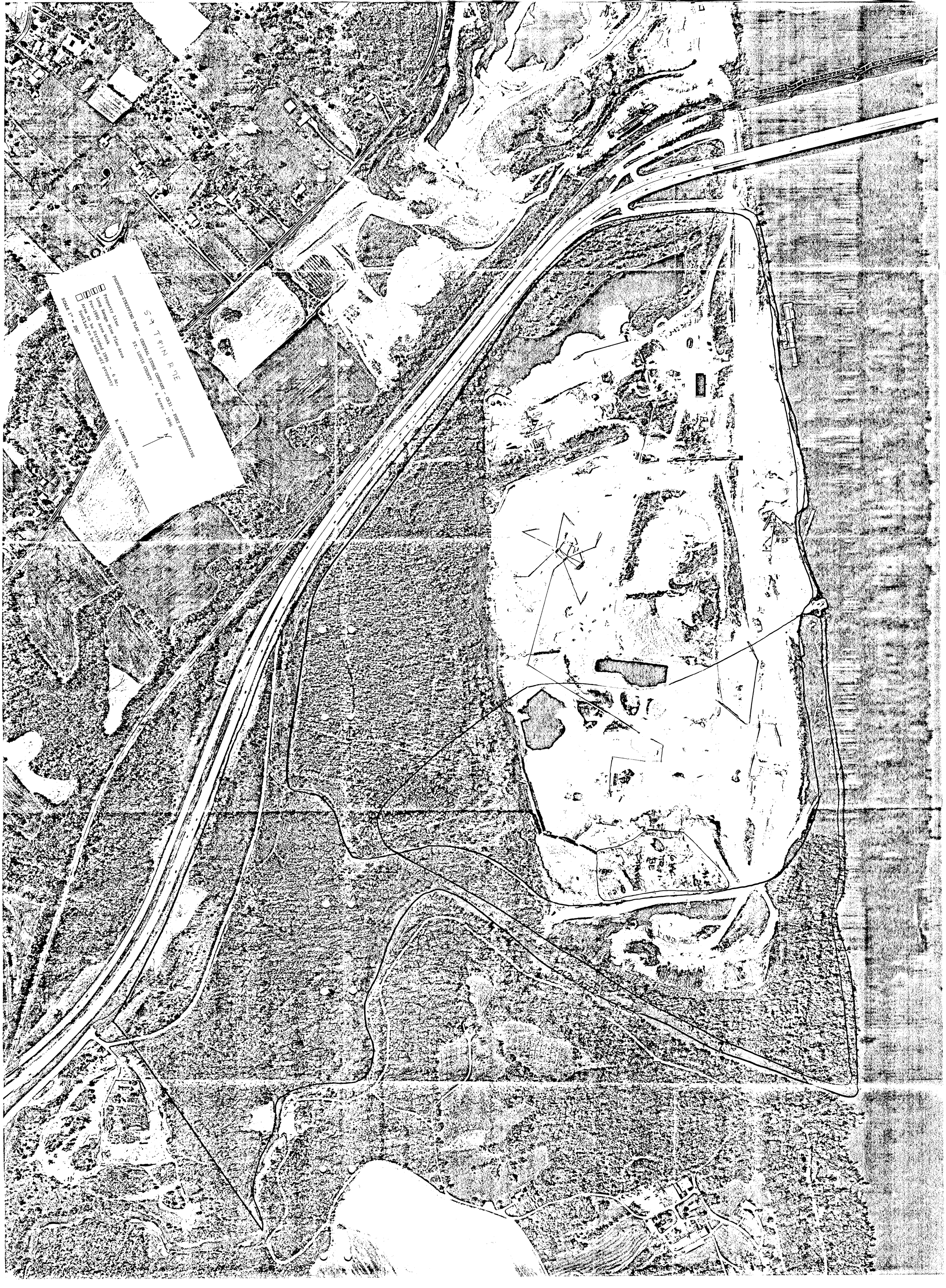
Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

VANDALIA, MO.
SW/4 VANDALIA 15' QUADRANGLE
N3915—W9122.5/7.5

1973

AMS 7762 IV SW—SERIES V879

Campbell No.


PROPOSED STRIPPING PLAN - CENTRAL STONE COMPANY - CS31 - FORT BELLEFONTAINE
ST. LOUIS COUNTY - 6 Acres - 1996
Property Line
Long Range Mine Plan Area
Pre-1990 Area Work
Area to be Stripped 1996 - 6 Ac.
Spoiled to be sold off property
SCALE 1" = 200'
R. KLIMSTRA 1-27-96
N

CENTRAL STONE COMPANY
LONG RANGE MINE PLAN - USE MAP - CS31 FORT BELLEFONTAINE -

- PROPERTY LINE
- 15 YEAR PLAN AREA
- PREVIOUSLY AFFECTED BY PREVIOUS OWNER
- WILDLIFE - 20 AC. - LEVEE, ETC.
- INDUSTRIAL - 99 AC (QUARRY - STOCKPILE)

1" = 1000' R KLIMSTRA 4-14-94

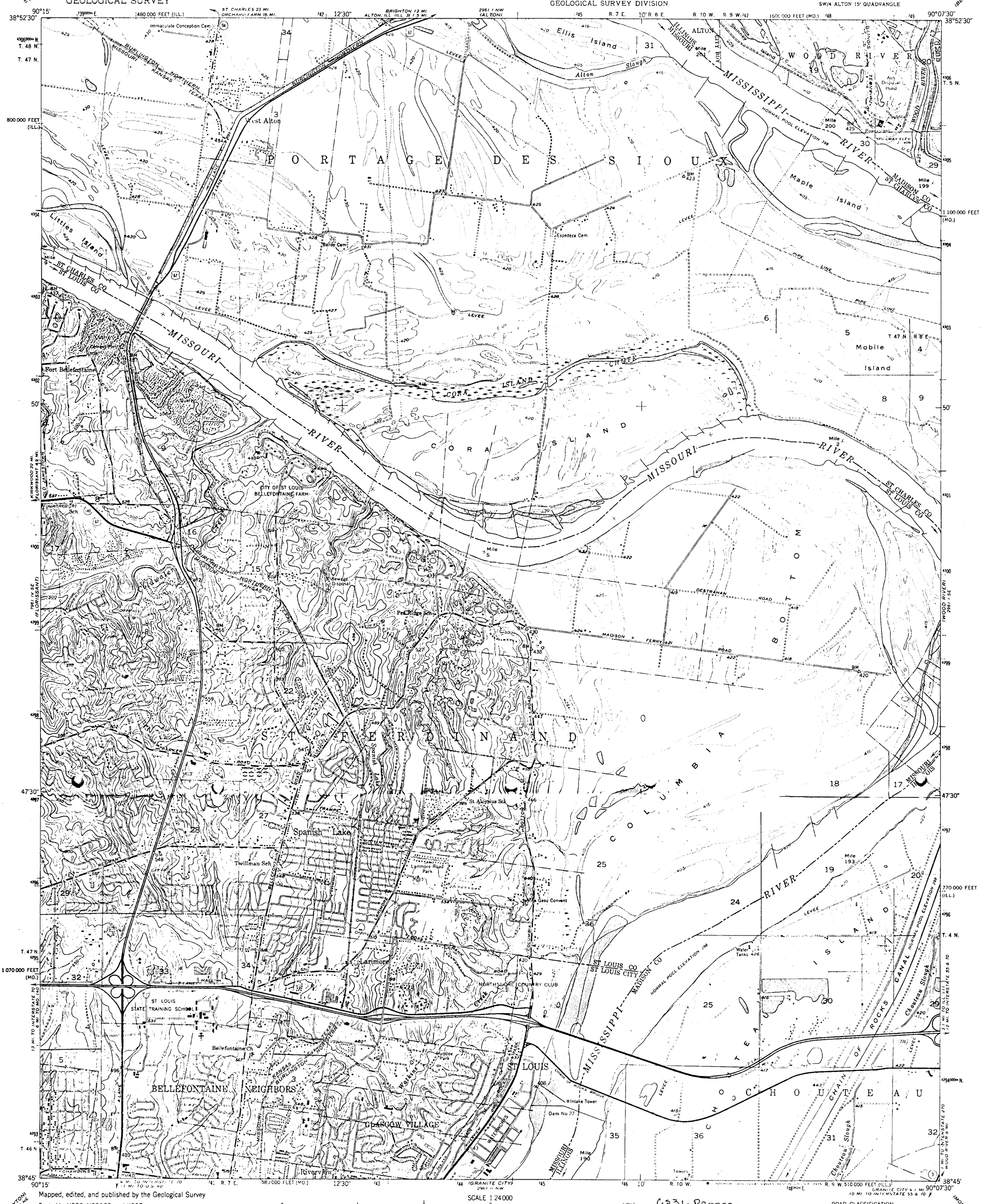
RECEIVED
APR 28 1999
MISSOURI LAND
RECLAMATION COMMISSION

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES

STATE OF ILLINOIS
DEPARTMENT OF REGISTRATION AND EDUCATION
GEOLOGICAL SURVEY DIVISION

COLUMBIA BOTTOM QUADRANGLE
MISSOURI-ILLINOIS
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 ALTON 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and USCE

Culture and drainage in part compiled from aerial photographs taken 1941. Topography by plane-table surveys 1924 and 1951, and in part by U. S. Corps of Engineers. Field check 1951

Polyconic projection. 1927 North American datum
10,000-foot grids based on Missouri coordinate system, east zone, and Illinois coordinate system, west zone

1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Revisions shown in purple compiled from aerial photographs taken 1968 and 1974. This information not field checked

Purple tint indicates extension of urban areas

UTM GRID AND 1974 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
THE DIVISION OF RESEARCH AND TECHNICAL INFORMATION
MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
AND BY THE STATE GEOLOGICAL SURVEY, URBANA, ILLINOIS 61801
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Heavy duty — Light duty
Medium duty — Unimproved dirt
Interstate Route — U. S. Route — State Route

COLUMBIA BOTTOM, MO.-ILL.
SW/4 ALTON 15' QUADRANGLE
N3845—W9007.5/7.5

1951

PHOTOREVISED 1968 AND 1974

AMS 7961 I SW—SERIES V879

C531-PROPERTY

2015

105.6

1" = 158.34

GOUGH CROP SERVICE

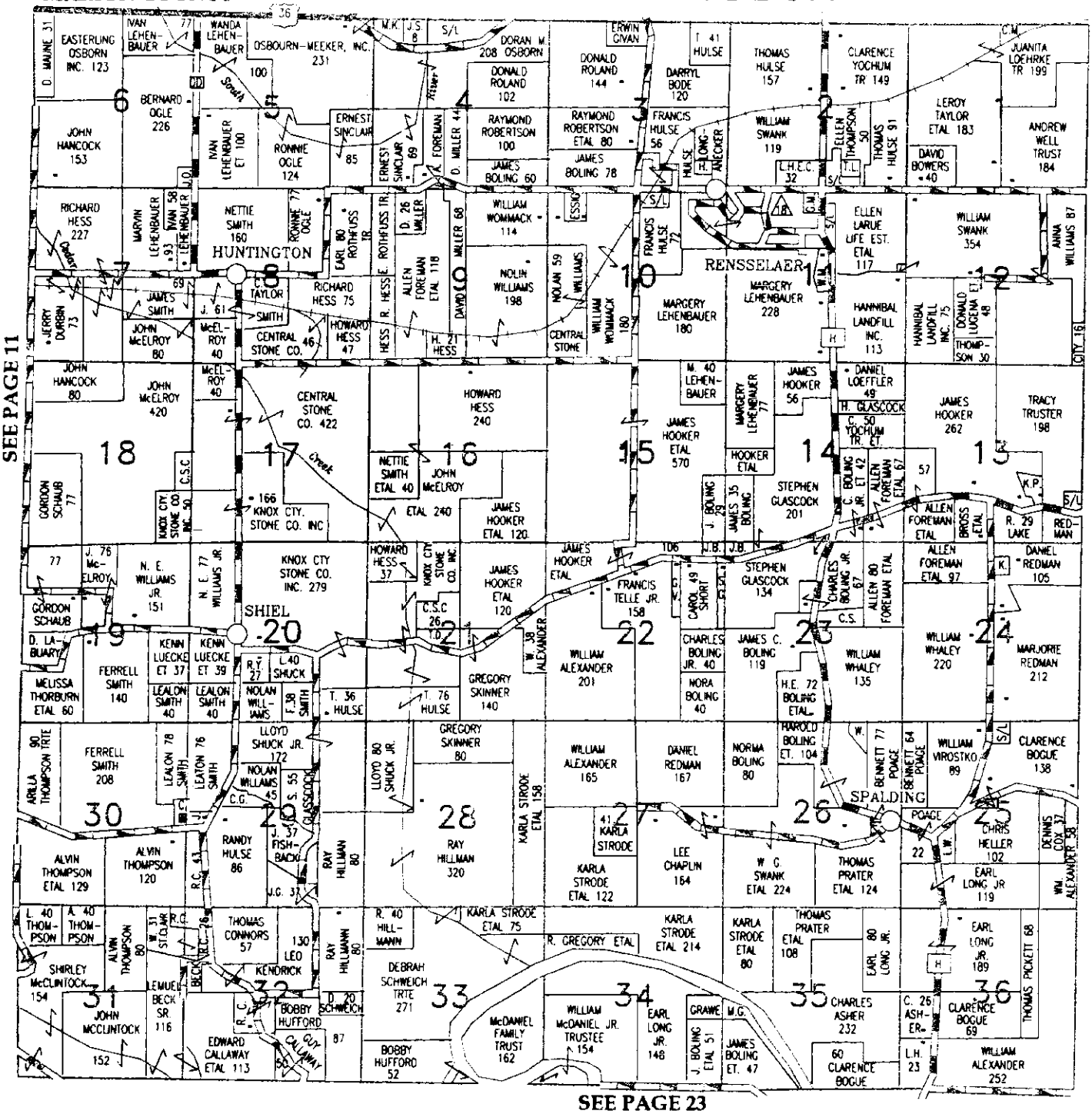
P. O. Box 458 - Perry, MO 63462
573-565-2860

Jim Gough, Manager

RECEIVED
AUG 1 9 2002
MISSOURI LAND
RECLAMATION COMMISSION

MARION COUNTY

TOWNSHIP 56N RANGE 6W



SEE PAGE 11

SEE PAGE 15

SEE PAGE 23

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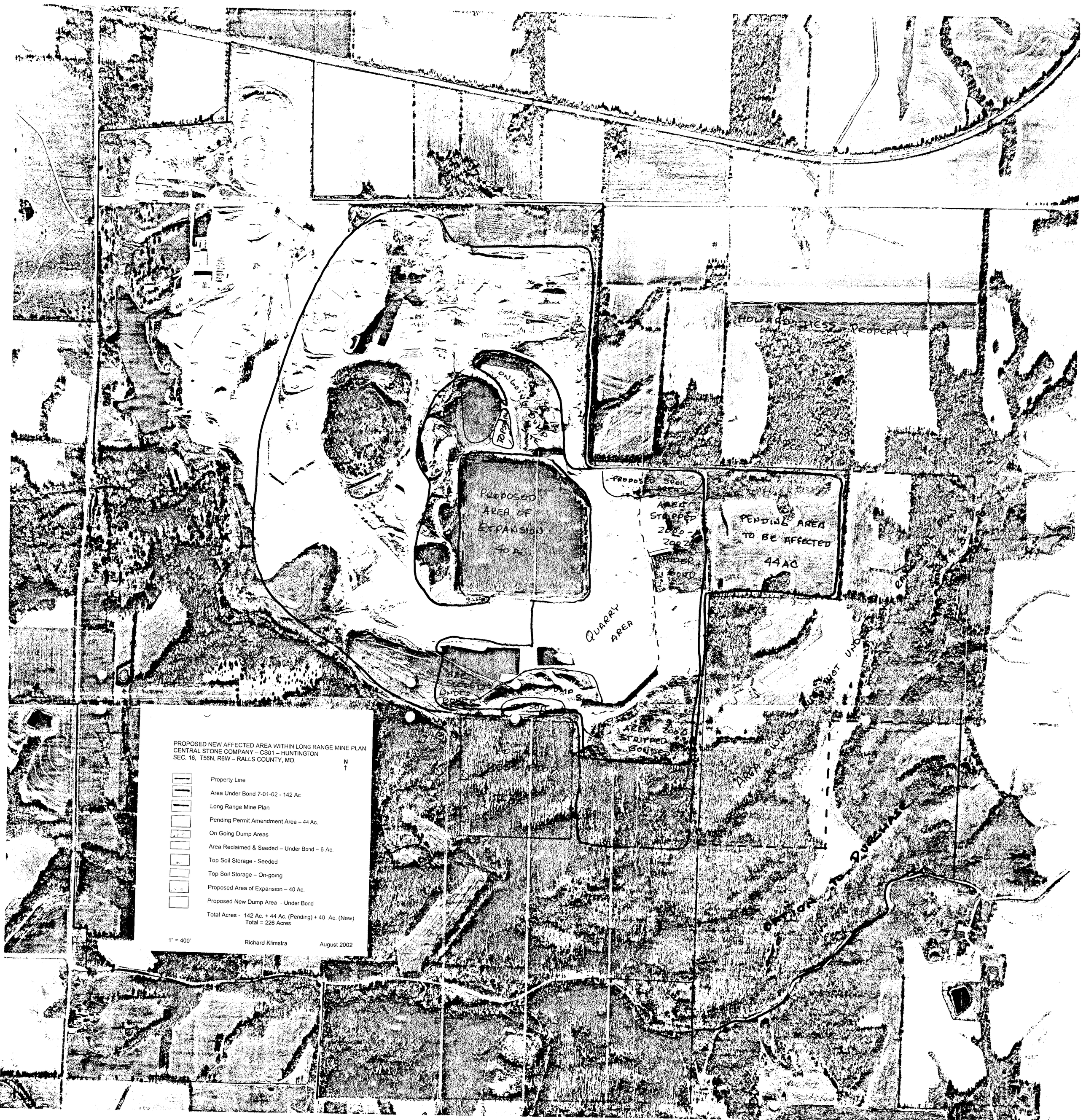
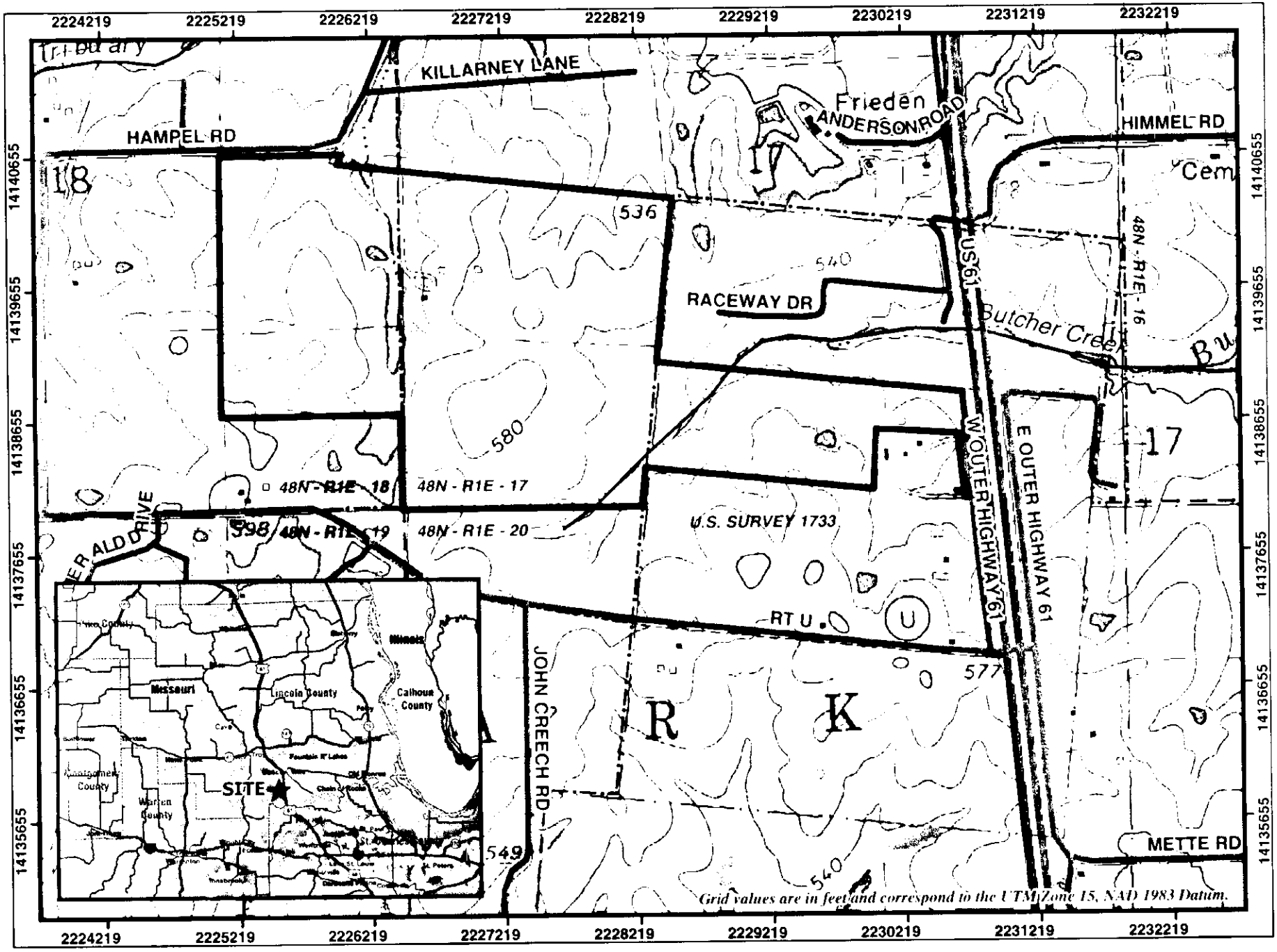
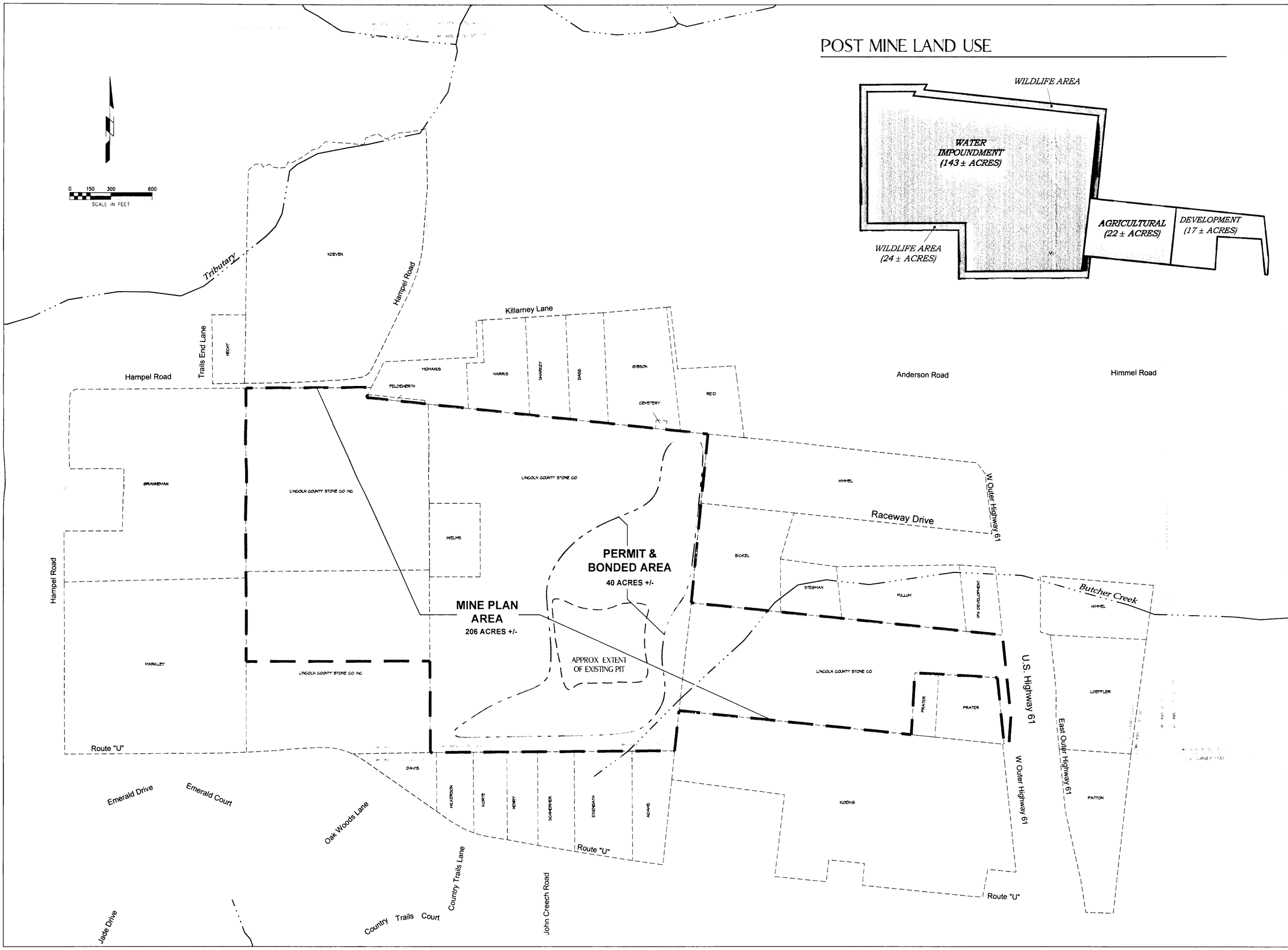

PROPOSED NEW AFFECTED AREA WITHIN LONG RANGE MINE PLAN
CENTRAL STONE COMPANY – CS01 – HUNTINGTON
SEC. 16, T56N, R6W – RALLS COUNTY, MO.
N
Property Line
Area Under Bond 7-01-02 - 142 Ac
Long Range Mine Plan
Pending Permit Amendment Area – 44 Ac.
On Going Dump Areas
Area Reclaimed & Seeded – Under Bond – 6 Ac.
Top Soil Storage - Seeded
Top Soil Storage – On-going
Proposed Area of Expansion – 40 Ac.
Proposed New Dump Area - Under Bond
Total Acres - 142 Ac. + 44 Ac. (Pending) + 40 Ac. (New)
Total = 226 Acres
1" = 400'
Richard Klimstra
August 2002
HOWARD HESS PROPERTY
ONGOING DUMP AREA
TOPSOIL
PROPOSED AREA OF EXPANSION 40 AC
PROPOSED SOIL AREA
AREA STRIPPED 2000 - 2002 UNDER BOND
PENDING AREA TO BE AFFECTED 44 AC
QUARRY AREA
SEEDED UNDER BOND
DUMP S
SOIL
AREA STRIPPED 2006 BOUND
AREA BOUND
BUT NOT UND
OPTION TO PURCHASE

Moscow Mills Quarry - Lincoln County, Missouri



LEGEND Quarry — Roads — Section Lines — Water

0 500 1,000 2,000 Feet



SHIVE-HATTERY
Cedar Rapids, IA · Iowa City, IA · Des Moines, IA
Moline, IL · Bloomington, IL · Chicago, IL
SHIVE-HATTERY, INC. 1701 RIVER DRIVE, SUITE 200 MOLINE, IL 61265
PHONE (309) 764-7550 FAX (309) 764-8616
http://www.shive-hattery.com

MOSCOW MILLS QUARRY CS57

CENTRAL STONE COMPANY
MOSCOW MILLS, MO

REVISIONS
REV. NO.
APPROVED DATE
REV. NO.
APPROVED DATE
REV. NO.
APPROVED DATE

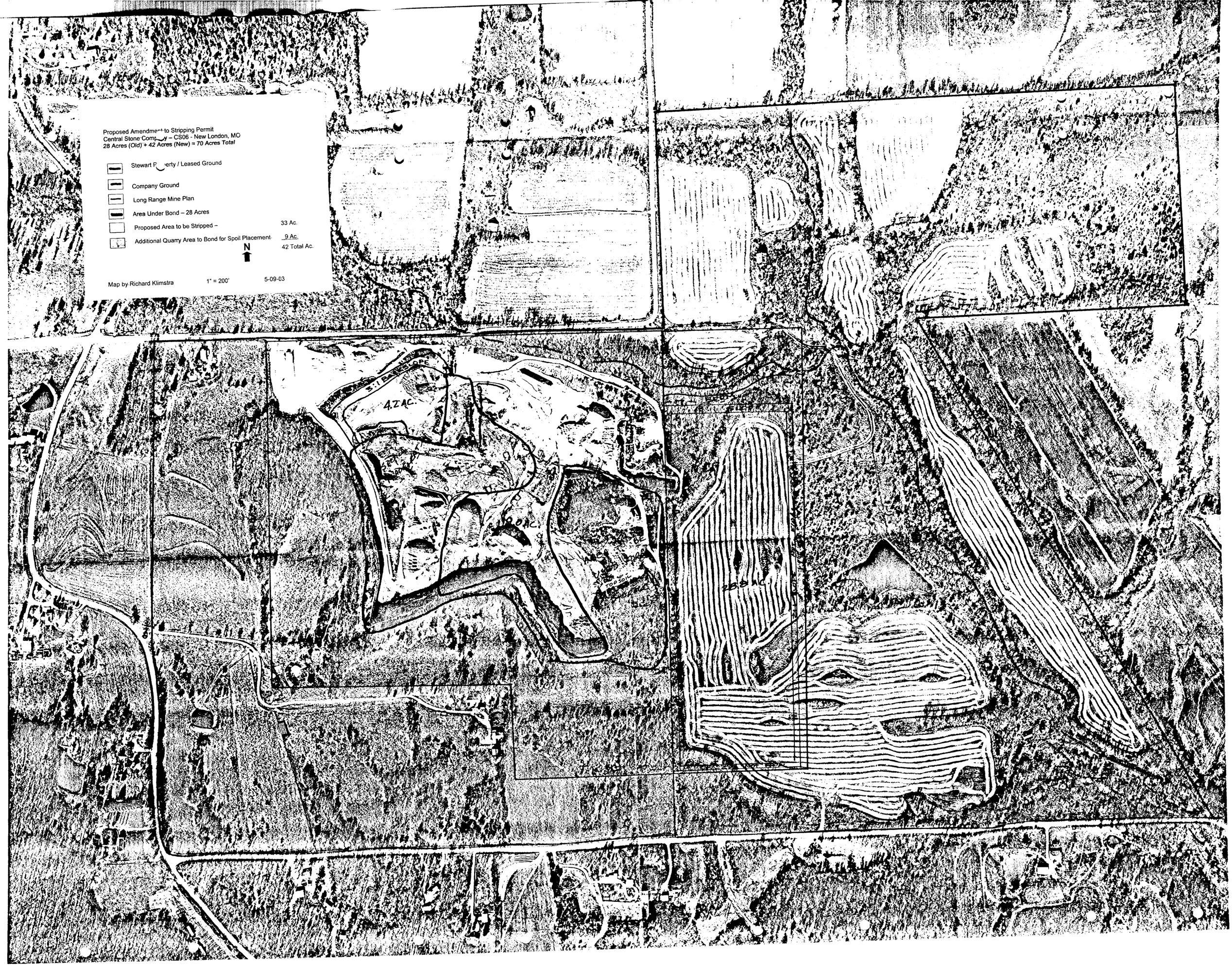
DRAWN RAW
APPROVED
ISSUED FOR FINAL
DATE 10-16-02
FIELD BOOK

SHEET NAME
CENTRAL STONE
MOSCOW MILLS
QUARRY CS57

SCALE: 1"=300 FEET

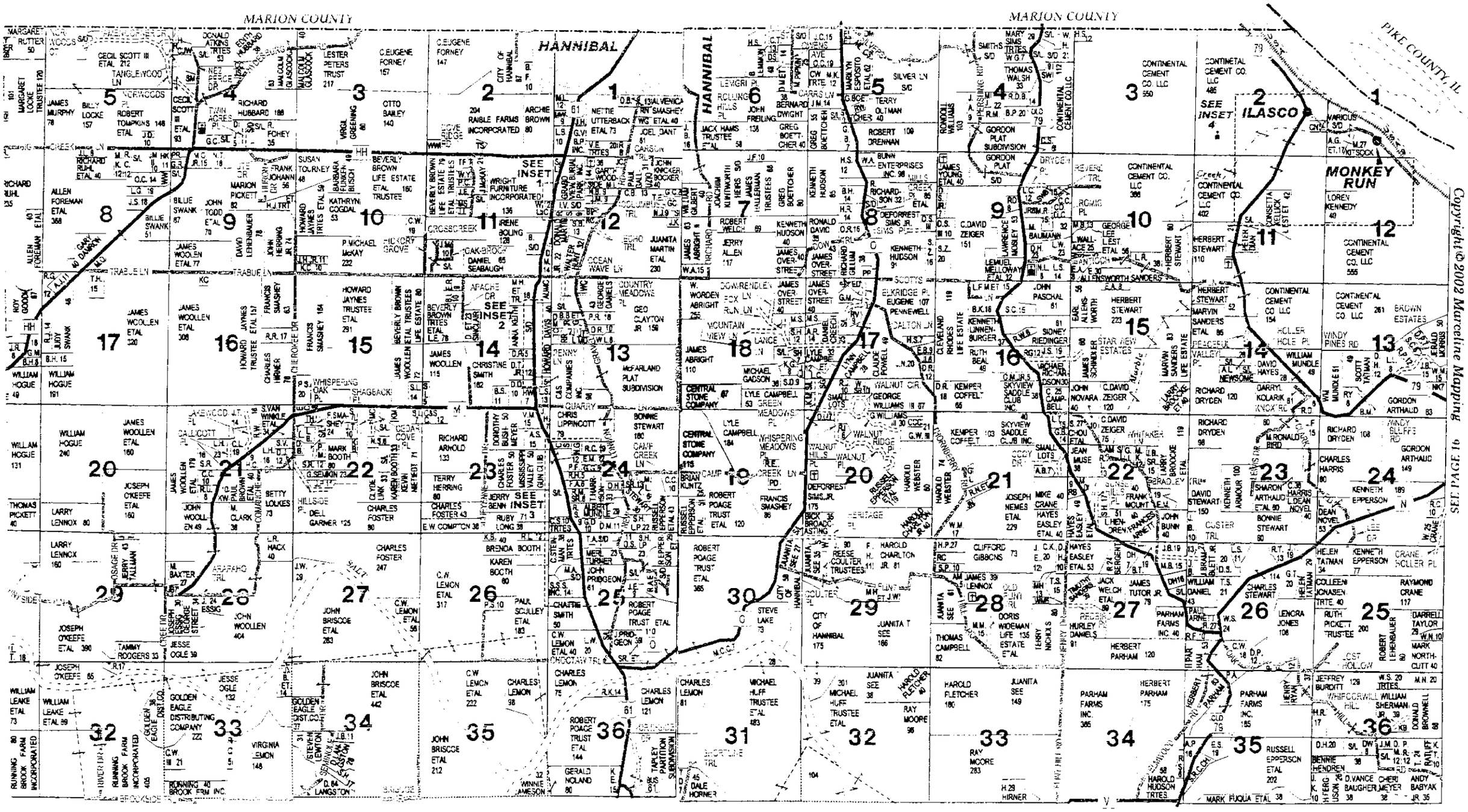
PROJECT NO. 301434-0

SHEET NO.
C1.1


Proposed Amendment to Stripping Permit
Central Stone Company – CS06 - New London, MO
28 Acres (Old) + 42 Acres (New) = 70 Acres Total
Stewart Property / Leased Ground
Company Ground
Long Range Mine Plan
Area Under Bond – 28 Acres
Proposed Area to be Stripped – 33 Ac.
Additional Quarry Area to Bond for Spoil Placement 9 Ac.
42 Total Ac.
N
Map by Richard Klimstra
1" = 200'
5-09-03
4.2 AC.
28.8 AC.

TOWNSHIP 56N • RANGE 5W

TOWNSHIP 56N • RANGE 4W



Copyright © 2002 Marceline Mapping

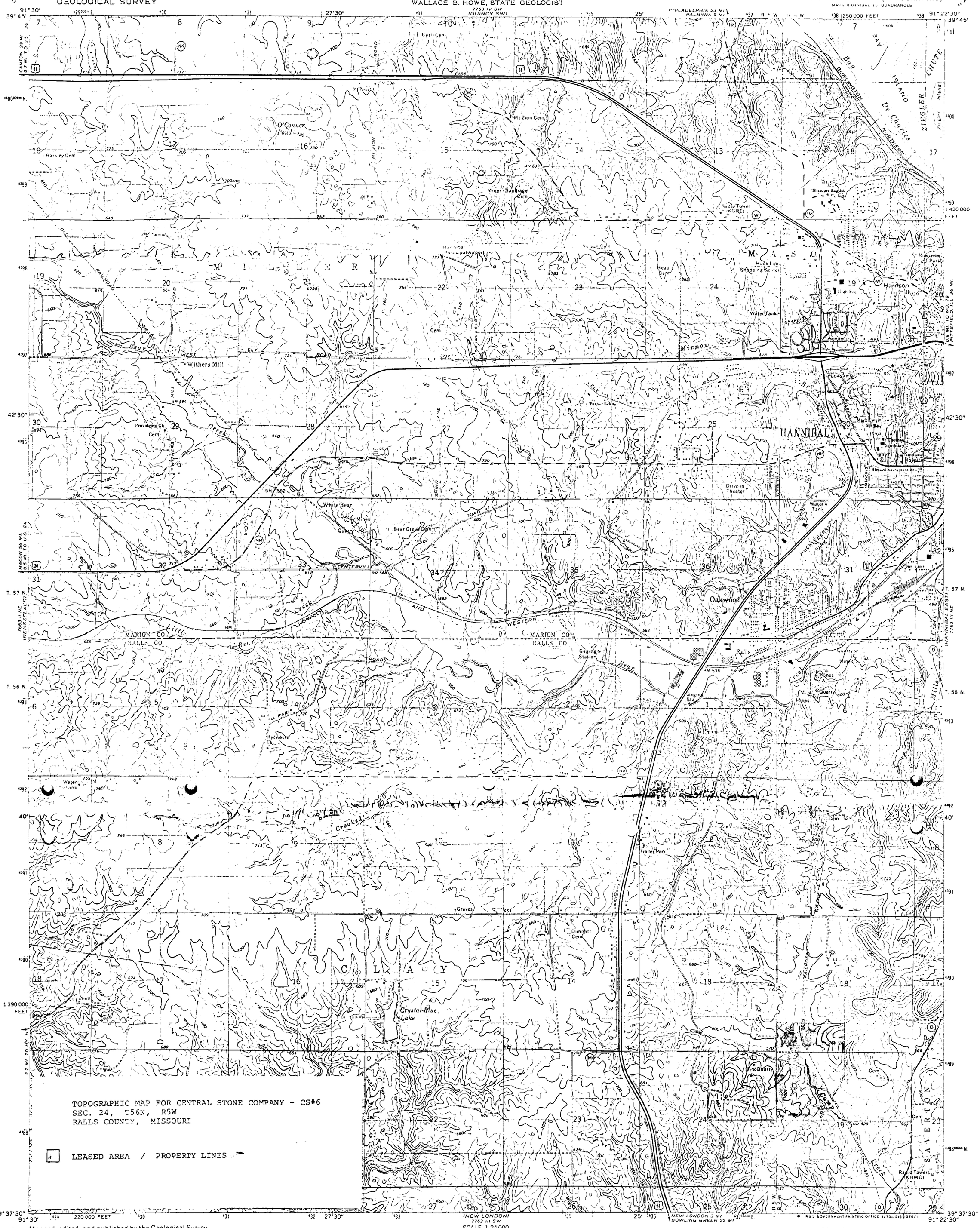
AFFECTED AREA - LS06

☐ LEASE ☐ OWN

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES
WALLACE B. HOWE, STATE GEOLOGIST

HANNIBAL WEST QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 HANNIBAL 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1969-70. Field checked 1971

Polyconic projection. 1927 North American datum
10,000-foot grid based on Missouri coordinate system, east zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Red tint indicates areas in which only landmark buildings are shown

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

MN
GN
1°00'
18 MILS
5°
89 MILS
UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

1 MILE
7000 FEET
1 KILOMETER

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
AND BY THE MISSOURI GEOLOGICAL SURVEY, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MISSOURI
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

HANNIBAL WEST, MO.
NW/4 HANNIBAL 15' QUADRANGLE
N3937.5—W9122.5/7.5

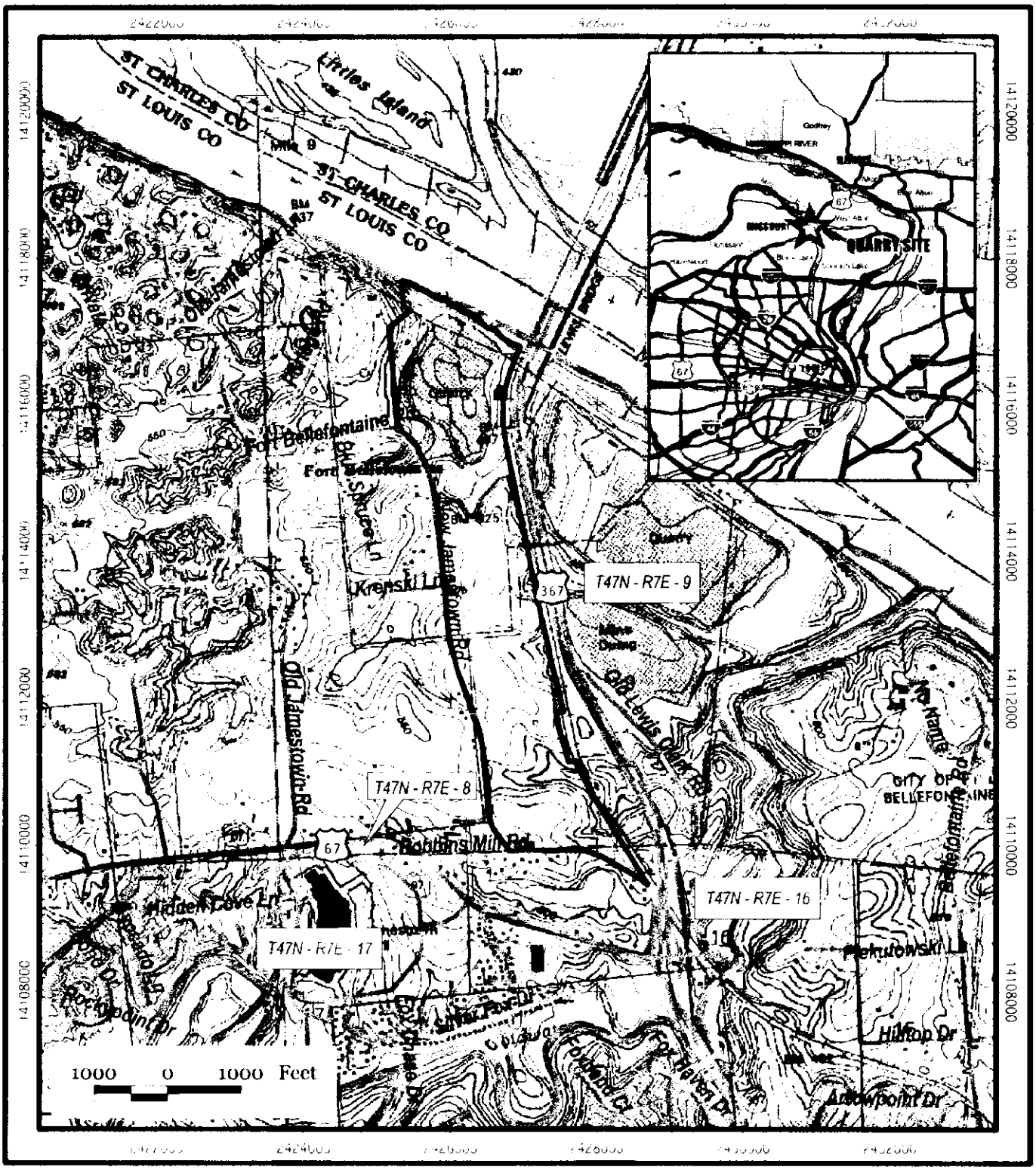
1971

AMS 7763 III NW—SERIES V879

New London, Mo

North Quarry

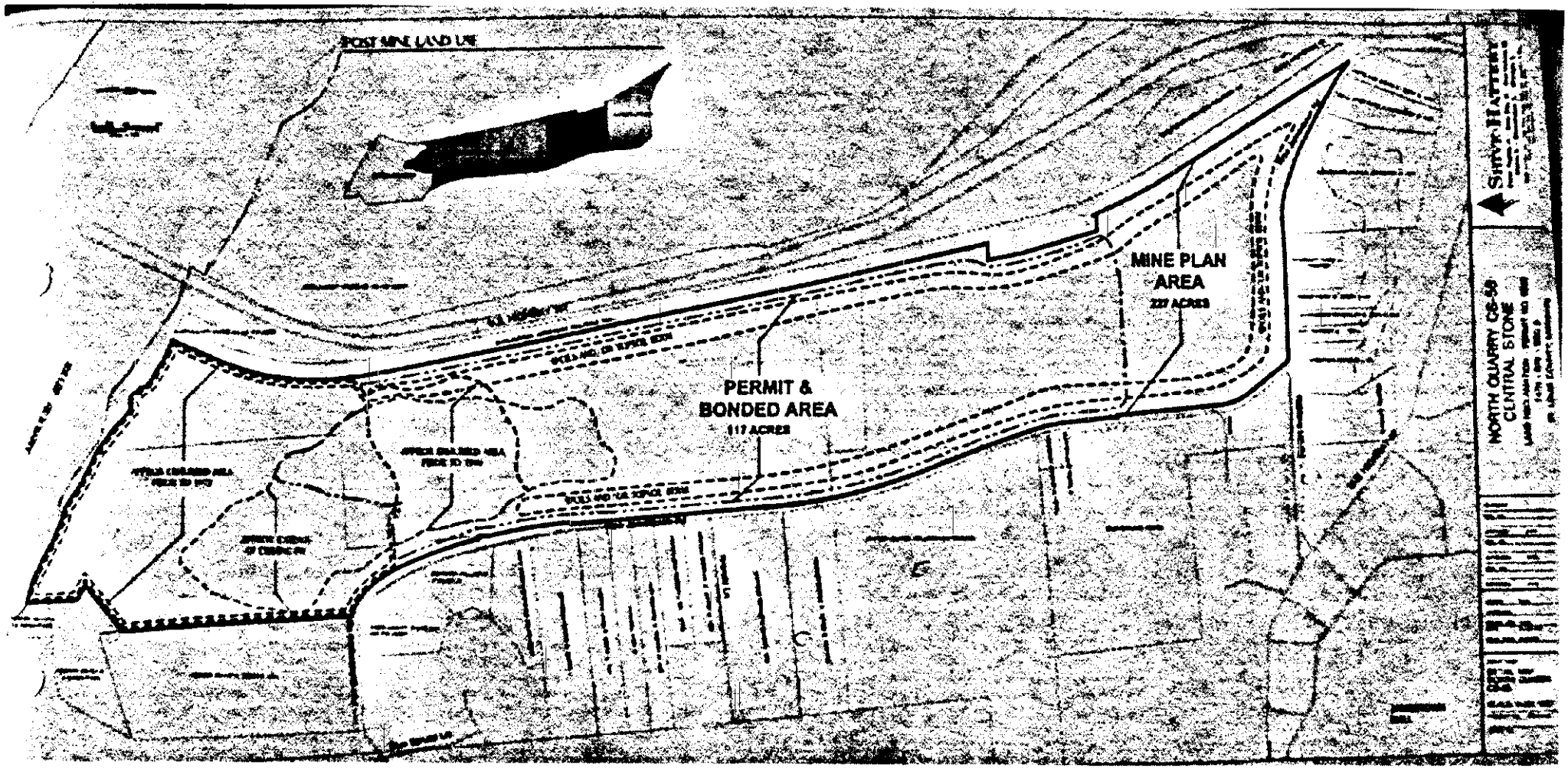
St. Louis County, Missouri



Grid values are in feet and correspond to the UTM, Zone 15, NAD 1983 Datum.

Legend

Quarry Boundary — Section Lines — Hydrology — Roads


POST MINE LAND USE
MINE PLAN
AREA
227 ACRES
PERMIT &
BONDED AREA
117 ACRES
NORTH QUARRY CS-58
CLINTON STONE

POST MINE LAND USE

0 100 200 400
SCALE IN FEET

AGRICULTURAL
WILDLIFE AREA
WATER IMPOUNDMENT
DEVELOPMENT

MISSOURI RIVER

KNOX COUNTY STONE CO INC MO CORP

U.S. HIGHWAY 367

BURLINGTON NORTHERN RAILROAD R/W

SPOILS AND/OR TOPSOIL BERM

APPROX DISTURBED AREA PRIOR TO 1972

APPROX EXTENTS OF EXISTING PIT

APPROX DISTURBED AREA PRIOR TO 1990

PERMIT & BONDED AREA
117 ACRES

MINE PLAN AREA
227 ACRES

SPOILS AND/OR TOPSOIL BERM

New Jamestown Rd

Fort Bellefontaine Rd

Kienski Ln

Blue Spruce Ln

Robbins Mill Rd

U.S. HIGHWAY 67

MESKER DAVID W & SUSAN P H/W

MESKER DAVID W & SUSAN P H/W

MESKER DAVID W SUSAN P H/W

KNOX COUNTY STONE CO INC MO CORP

BEARDEN WILLIAM H & ALICE C

KNOX COUNTY STONE CO INC MO CORP

SPARROW EUGENE C DORIS J

KEIFER JACK P BETTY L H/W

MITCHELL KIRK D

HUNT RICHARD S SHERRY A H/W

MEYERCORD ROBERT L SR ETAL

KRENSKI DERRICK G CATHY M H/W

CHITWOOD RONALD L DIANE L H/W

HEIDNER EUGENE N JOYCE E H/W TRS

WATSON GLORIA HOLLERBACH TRUSTEE

KRENSKI RONALD K ETAL

BLOMENKAMP PEARL U

BLOMENKAMP PEARL

Private

BURLINGTON NORTHERN RAILROAD CO

SELECT PROPERTIES INC

COPELAND BRIAN K BETH A H/W

BELL JACK ROSS & MARGARET G H/W

SCHLEMMER ALAN A BARBARA A H/W

MCCRADY MARY J - TRUSTEE

REESE MARK E SHERI H/W

SCHROEDER RANDOLPH S LISA A H/W

RAY ROBERT J ETAL

STRUTMAN DONALD J JR

BECHTEL BAKERY S

JAMESTOWN MALL

SHIVE-HATTERY
Cedar Rapids, IA • Iowa City, IA • Des Moines, IA
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SHIVE-HATTERY, INC. 2839 FOREST HILLS DR. MOLINE, IL 61265
PHONE (309) 764-5500 FAX (309) 764-8858
http://www.shive-hattery.com

NORTH QUARRY CS-55
CENTRAL STONE

LAND RECLAMATION - PERMIT NO. 0028
T47N - R7E - SEC 9
ST. LOUIS COUNTY, MISSOURI

REVISIONS	
REV. NO.	
APPROVED	DATE
REV. NO.	
APPROVED	DATE
REV. NO.	
APPROVED	DATE

DRAWN	RAW
APPROVED	
ISSUED FOR FINAL DATE	3-25-02
FIELD BOOK NUMBER	

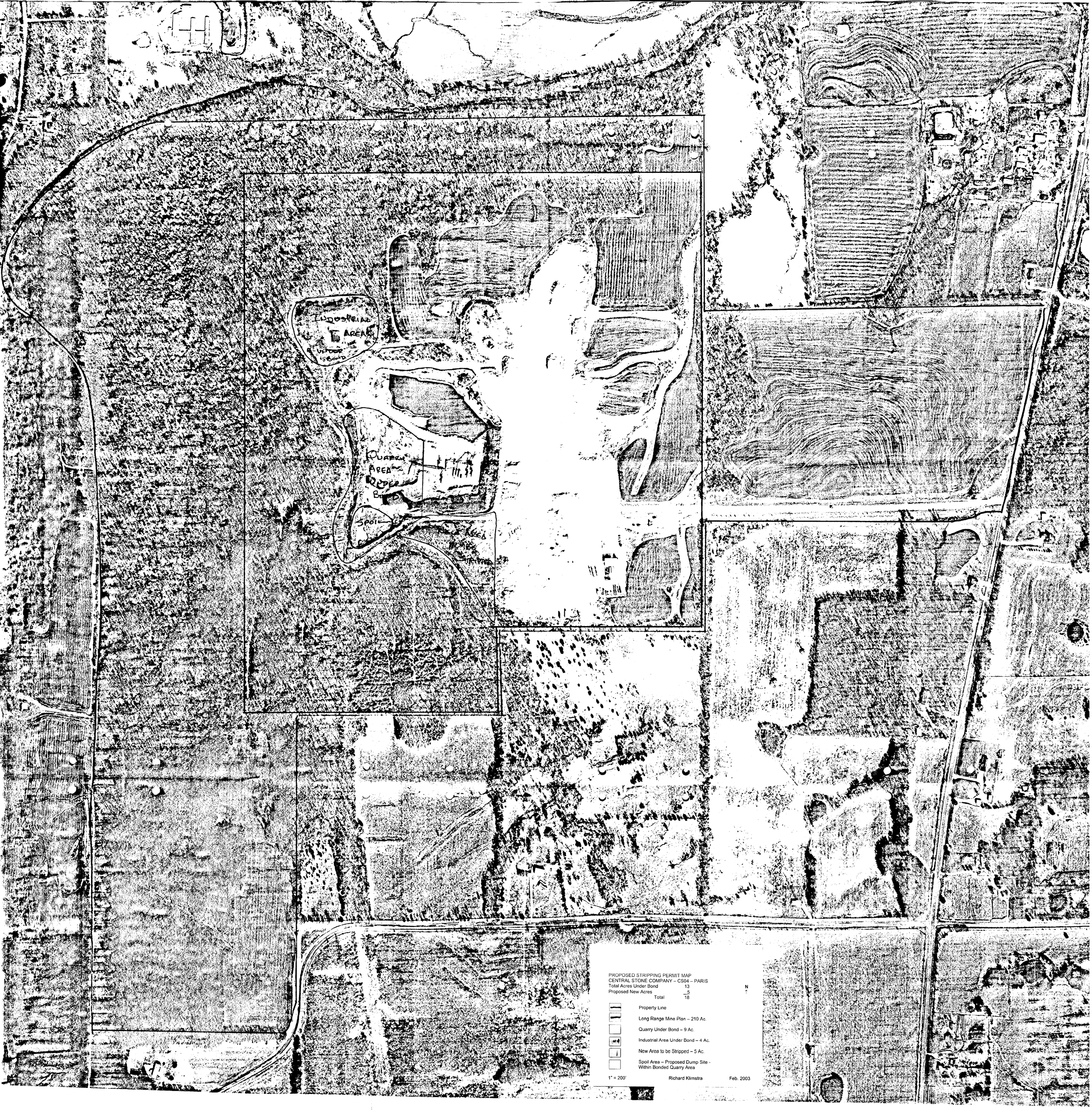
SHEET NAME
DETAIL MAP
NORTH QUARRY
CS-55

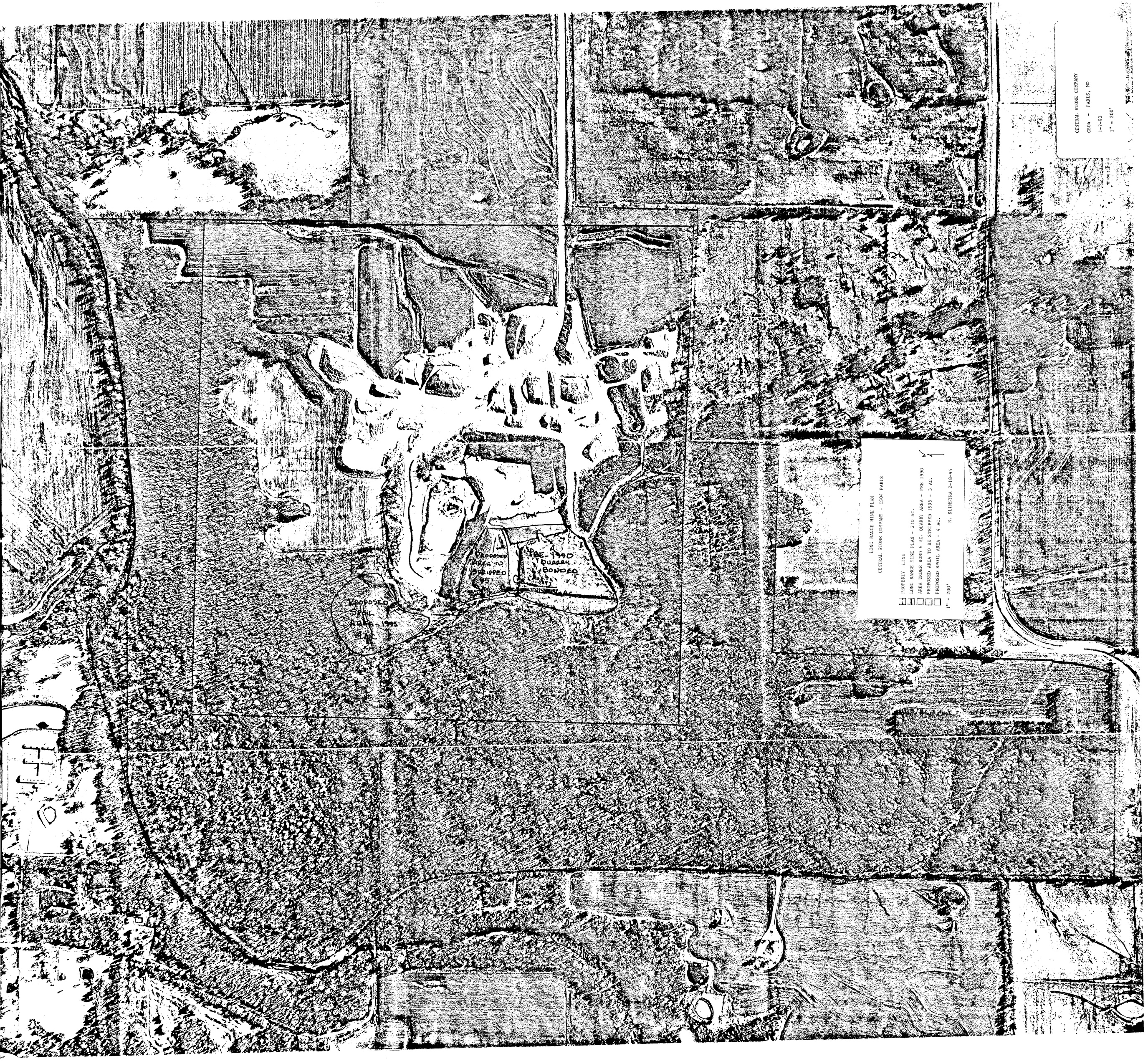
SCALE: 1"=200 FEET

PROJECT NO. 301434-0

SHEET NO.

Industrial Area Under Bond
Quarry Area Under Bond
New Area To Be Stripped
PROPOSED STRIPPING PERMIT MAP
CENTRAL STONE COMPANY - CS04 - PARIS
Total Acres Under Bond 13
Proposed New Acres 5
Total 18
N
Property Line
Long Range Mine Plan – 210 Ac.
Quarry Under Bond – 9 Ac.
Industrial Area Under Bond – 4 Ac.
New Area to be Stripped – 5 Ac.
Spoil Area – Proposed Dump Site - Within Bonded Quarry Area
1" = 200'
Richard Klimstra
Feb. 2003


INDUSTRIAL AREA
UNDER BOND
QUARRY AREA
UNDER BOND
SPOIL
PROPOSED STRIPPING PERMIT MAP
CENTRAL STONE COMPANY – CS04 – PARIS
Total Acres Under Bond 13
Proposed New Acres 5
Total 18
N
Property Line
Long Range Mine Plan – 210 Ac.
Quarry Under Bond – 9 Ac.
Industrial Area Under Bond – 4 Ac.
New Area to be Stripped – 5 Ac.
Spoil Area – Proposed Dump Site - Within Bonded Quarry Area
1" = 200'
Richard Klimstra
Feb. 2003


CENTRAL STONE COMPANY
CS04 - PARIS, MO
1-7-90
1" = 200'
LONG RANGE MINE PLAN
CENTRAL STONE COMPANY - CS04 PARIS
PROPERTY LINE
LONG RANGE MINE PLAN - 270 AC.
AREA UNDER BOND 6 AC. QUARRY AREA - PRE 1990
PROPOSED AREA TO BE STRIPPED 1995 - 3 AC.
PROPOSED SPOIL AREA - 4 AC.
R. KLINSTRA 2-18-95
1" = 200'
PRE-1990 QUARRY BONDED
PROPOSED AREA TO BE STRIPPED 95
PROPOSED SPOIL AREA 1995

TOPOGRAPHIC MAP - C504 PROP. - PARIS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES
THOMAS R. BEVERIDGE, STATE GEOLOGIST

PARIS WEST QUADRANGLE
MISSOURI—MONROE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

(WOODLAWN) (GOSS)

92°07'30" 39°30' 576000m. E. GRANVILLE 4.8 MI. 5' R. 11 W. R. 10 W. (GRANVILLE) 2'30" 630 000 FEET MONROE CITY 20 MI. (VIA U.S. 24) GOSS 4 MI. 92°00' 39°30' T. 54 N.

39°22'30" 92°07'30" 0.3 MI. TO MO. M 610 000 FEET R. 11 W. 5' R. 10 W. (ROWENA) 2'30" INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1961—N8 585000m. E. MR 5569 MEXICO 19 MI. 39°22'30" 92°00'

(TULIP) (FLORIDA 1:62 500)

Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1957. Field check 1960
Polyconic projection. 1927 North American datum
10,000-foot grid based on Missouri coordinate system, central zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

TRUE NORTH MAGNETIC NORTH 6°
APPROXIMATE MEAN DECLINATION, 1960

SCALE 1:24 000
1 ½ 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

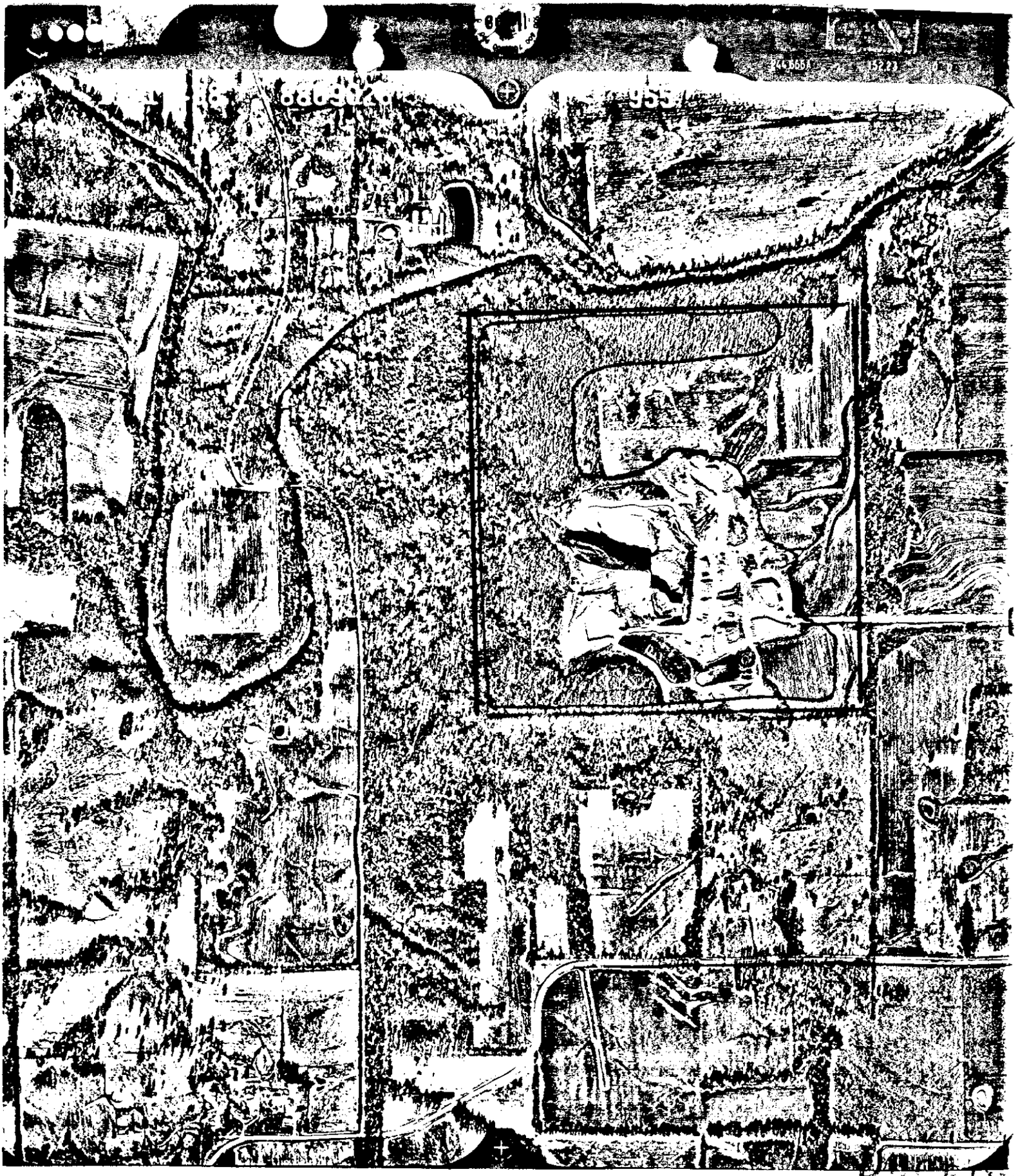
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
AND BY THE MISSOURI GEOLOGICAL SURVEY, ROLLA, MISSOURI
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MISSOURI
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
U. S. Route — State Route

PARIS WEST, MO.
N3922.5—W9200/7.5
1960

4/13 ac

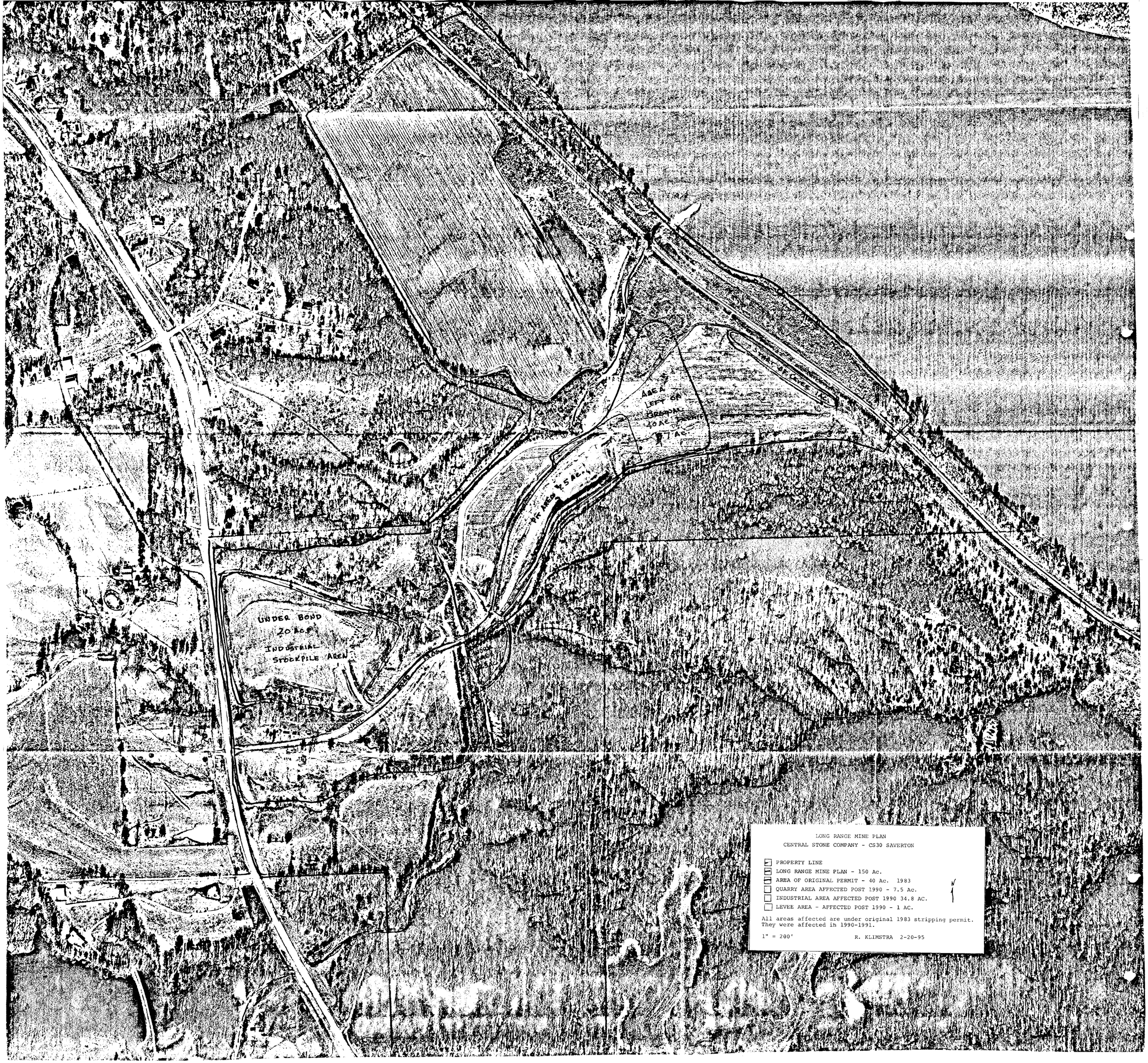


LONG RANGE MINE PLAN USE MAP- CS04 PARS- CENTRAL STONE COMPANY-

RECEIVED
APR 28 1995
MISSOURI LAND RECLAMATION COMMISSION

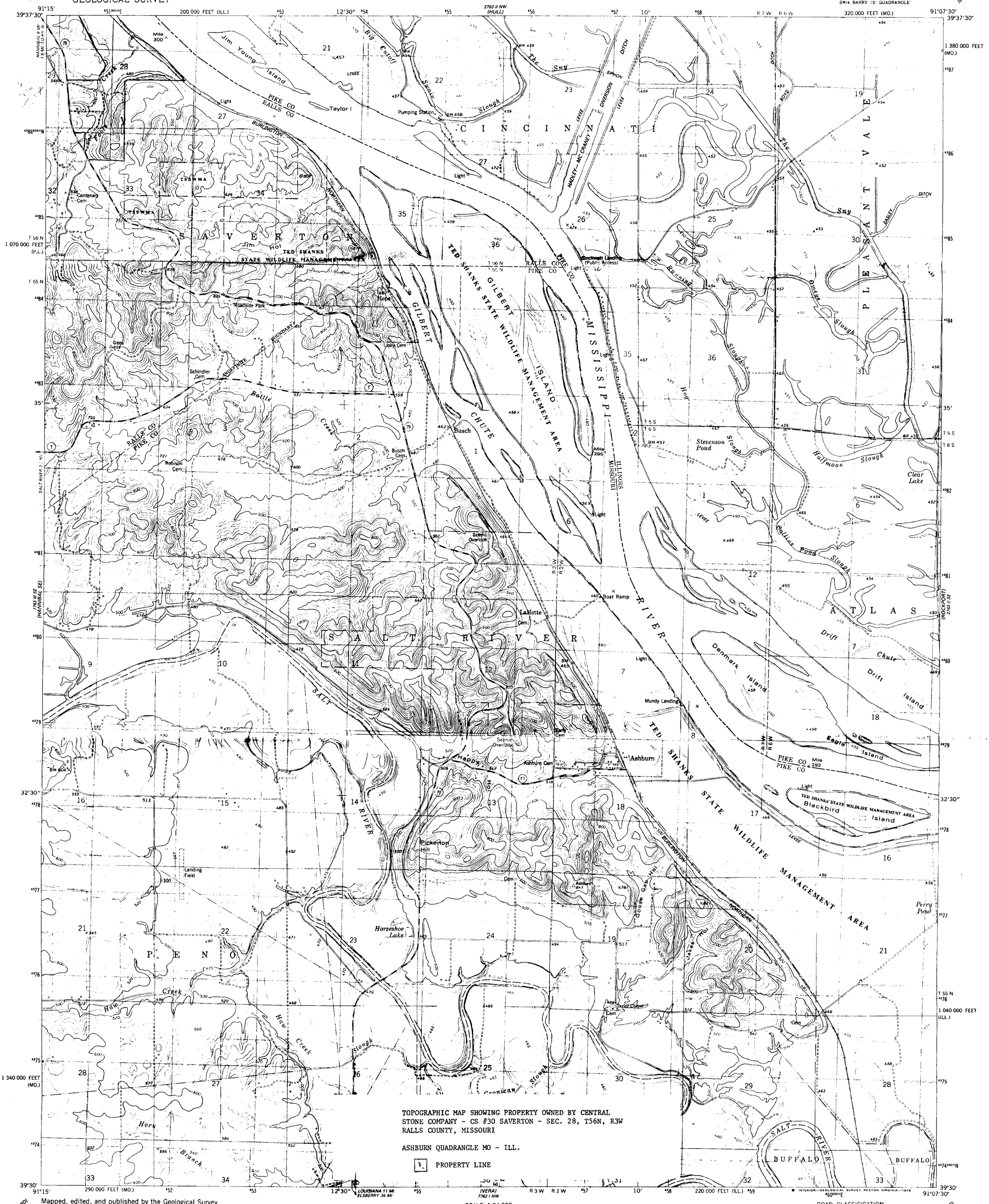
☐ 90AC. WILDLIFE ■ 120 AC. INDUSTRIAL (QUARRY - STOCKPILE)

1" = 955' R. KLIMSTRA


AREA LEFT ON ORIGINAL 40 AC
UNDER BOND 20 AC
INDUSTRIAL STOCKPILE AREA
LONG RANGE MINE PLAN
CENTRAL STONE COMPANY - CS30 SAVERTON
PROPERTY LINE
LONG RANGE MINE PLAN - 150 Ac.
AREA OF ORIGINAL PERMIT - 40 Ac. 1983
QUARRY AREA AFFECTED POST 1990 - 7.5 Ac.
INDUSTRIAL AREA AFFECTED POST 1990 34.8 AC.
LEVEE AREA - AFFECTED POST 1990 - 1 AC.
All areas affected are under original 1983 stripping permit.
They were affected in 1990-1991.
1" = 200'
R. KLIMSTRA 2-20-95

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ASHBURN QUADRANGLE
MISSOURI—ILLINOIS
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 BARRY 15' QUADRANGLE



TOPOGRAPHIC MAP SHOWING PROPERTY OWNED BY CENTRAL STONE COMPANY - CS #30 SAVERTON - SEC. 28, T56N, R3W RALLS COUNTY, MISSOURI

ASHBURN QUADRANGLE MO - ILL.

PROPERTY LINE

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1972 and 1974. Field checked 1975. Map edited 1978

Projection: Missouri coordinate system, east zone (transverse Mercator)
10,000-foot grid ticks based on Missouri coordinate system, east zone and Illinois coordinate system, west zone
1000-meter Universal Transverse Mercator grid, zone 15
1927 North American datum

Unidentified bounded areas in Missouri are part of the Ted Shanks State Wildlife Management Area

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1978 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 5 AND 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092,
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MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
AND STATE GEOLOGICAL SURVEY, URBANA, ILLINOIS 61801
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

CONTOUR INTERVAL

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

ASHBURN, MO.—ILL.
SW/4 BARRY 15' QUADRANGLE
N3930—W9107.5/7.5

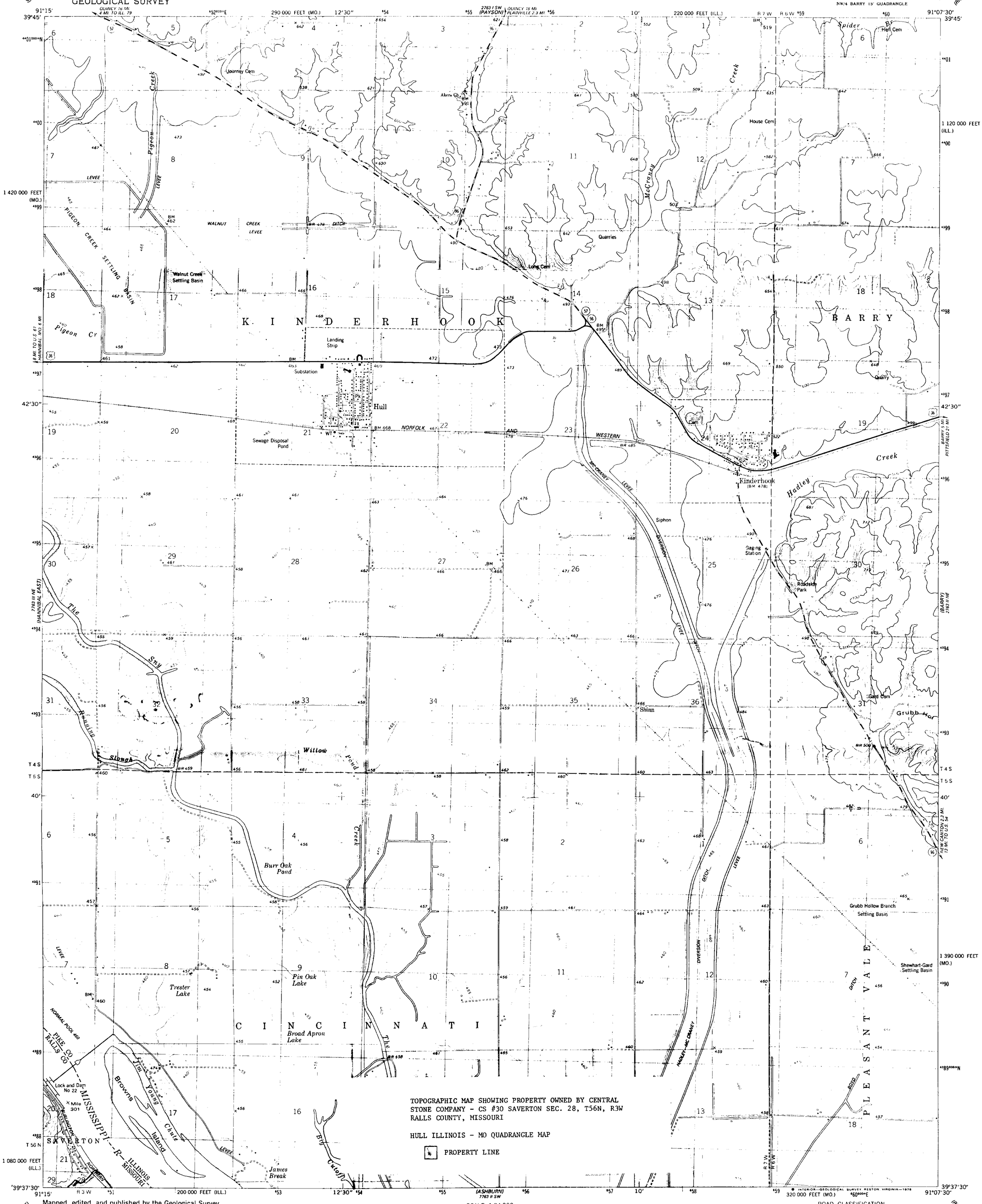
1978

AMS 7763 II SW—SERIES V879

RECEIVED
FEB 1 3 1995
MISSOURI DIVISION

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HULL QUADRANGLE
ILLINOIS—MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)
NW/4 BARRY 15' QUADRANGLE



TOPOGRAPHIC MAP SHOWING PROPERTY OWNED BY CENTRAL STONE COMPANY - CS #30 SAVERTON SEC. 28, T56N, R3W RALLS COUNTY, MISSOURI

HULL ILLINOIS - MO QUADRANGLE MAP

PROPERTY LINE

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1972 and 1974. Field checked 1973. Map edited 1978

Projection: Illinois coordinate system, west zone (transverse Mercator)
10,000-foot grid ticks based on Illinois coordinate system, west zone and Missouri coordinate system, east zone
1000-meter Universal Transverse Mercator grid, zone 15
1927 North American datum

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

UTM GRID AND 1978 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 5 AND 20 FEET
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MISSOURI DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
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CONTOUR INTERVAL

QUADRANGLE LOCATION

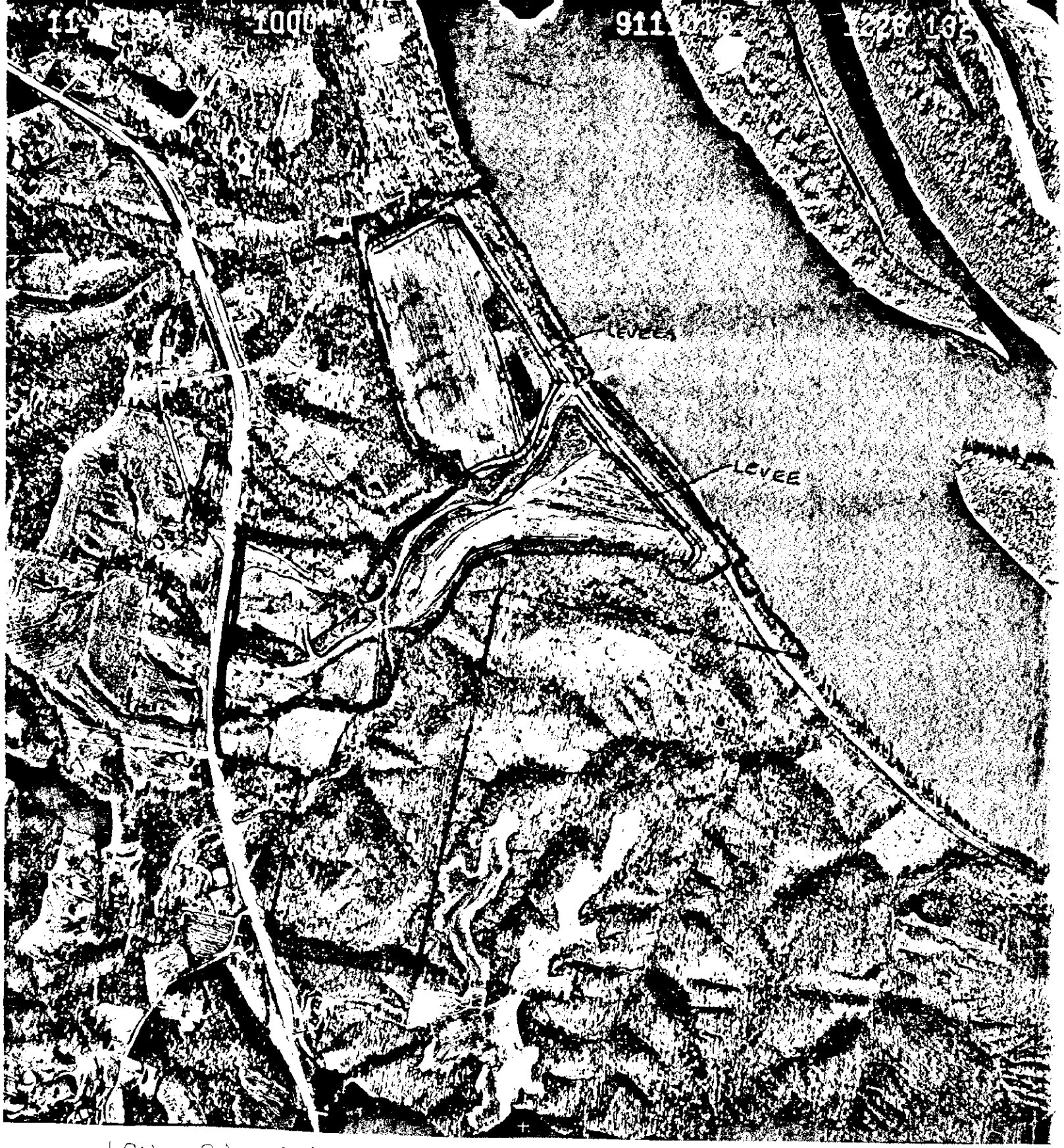
ROAD CLASSIFICATION

Primary highway, hard surface — Light-duty road, hard or improved surface
Secondary highway, hard surface — Unimproved road
Interstate Route — U. S. Route — State Route

HULL, ILL.—MO.
NW/4 BARRY 15' QUADRANGLE
N3937.5—W9107.5/7.5

1978

AMS 2763 II NW—SERIES V863



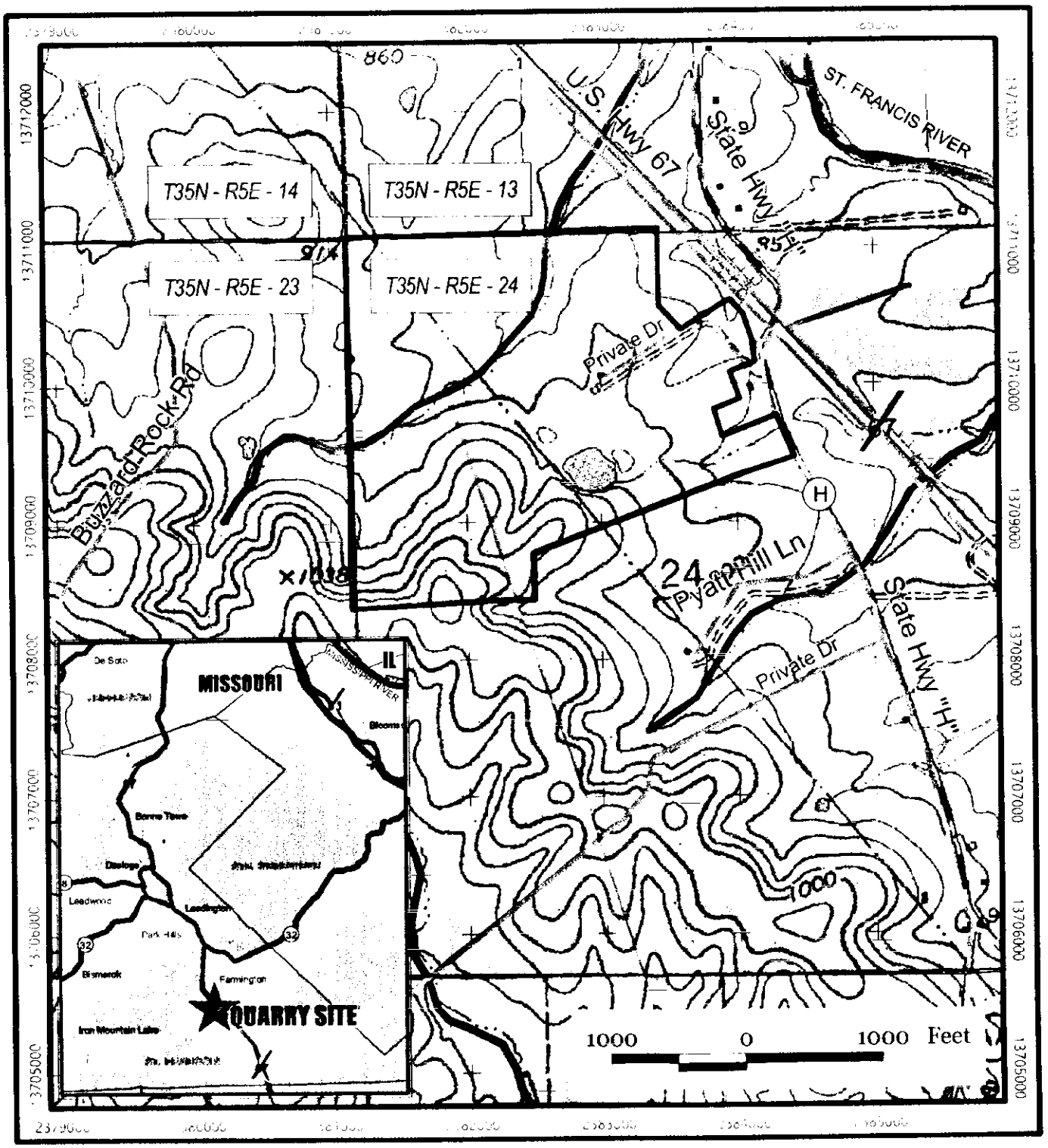
LONG RANGE MAP PLAN - LAND USE MAP - CENTRAL STONE COMPAN
CS30 - SAVERTON MO.

- PRO. LINE
- LONG RANGE MINE PLAN AREA
- INDUSTRIAL - 100 AC
- WILDLIFE AREA - 50 AC.

1" = 1000' R. KLIMSTRA 2-20-95

St. Francois Quarry

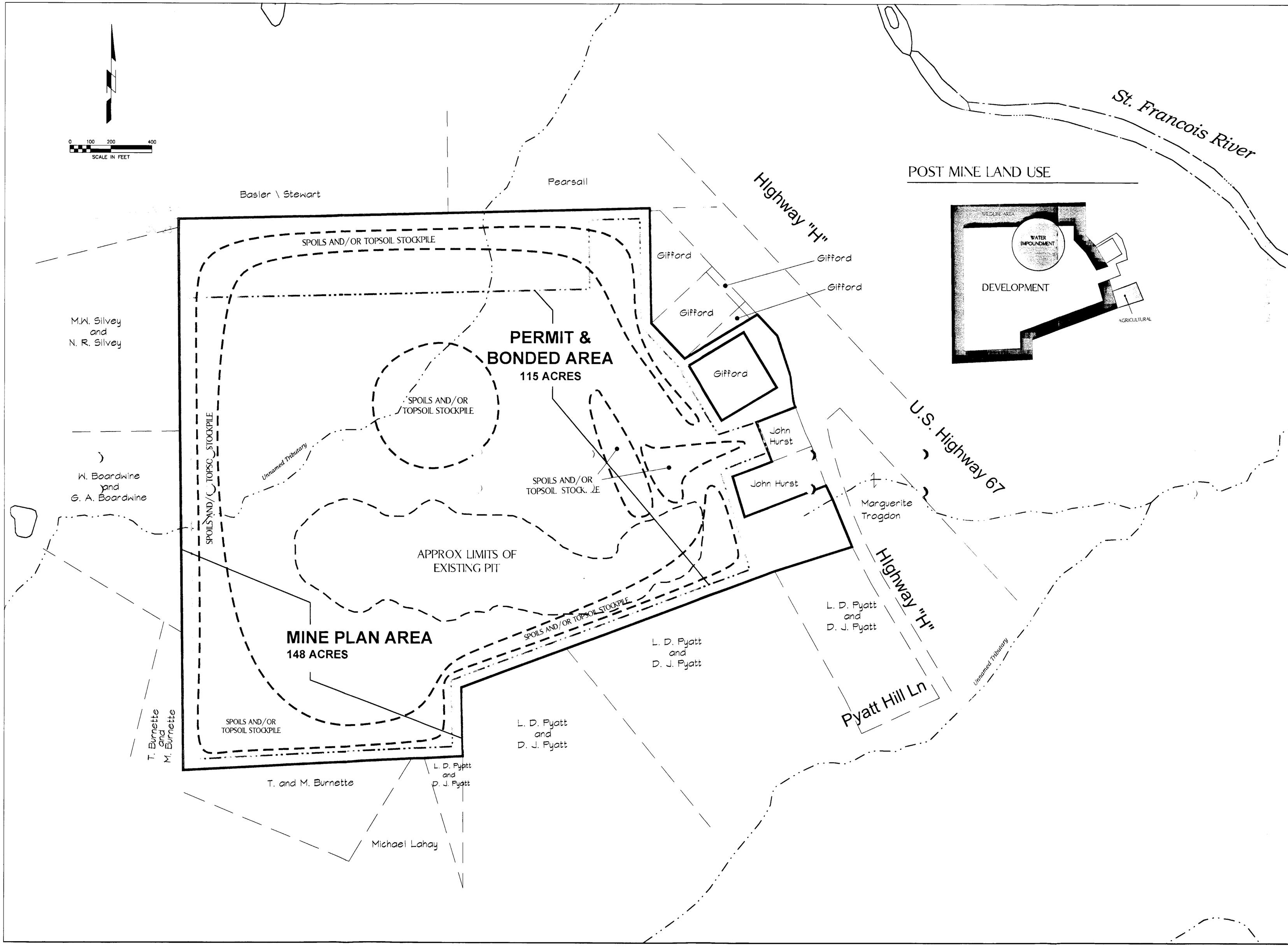
St. Francois County, Missouri



Grid values are in feet and correspond to the UTM, Zone 15, NAD 1983 Datum.

Legend

Quarry Boundary — Section Lines — Roads — Hydrology



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SHIVE-HATTERY, INC. 1701 RIVER DRIVE, SUITE 200 MOLINE,IL 61265
PHONE (309) 764-7650 FAX (309) 764-8616
http://www.shive-hattery.com

ST. FRANCOIS QUARRY CS-54
CENTRAL STONE COMPANY

LAND RECLAMATION PERMIT NO. 0028

T35N - R5E - SEC 24

ST. FRANCOIS COUNTY, MISSOURI

REVISIONS

REV. NO.

APPROVED DATE

REV. NO.

APPROVED DATE

REV. NO.

APPROVED DATE

DRAWN RAW

APPROVED

ISSUED FOR FINAL

DATE 03-26-02

FIELD BOOK

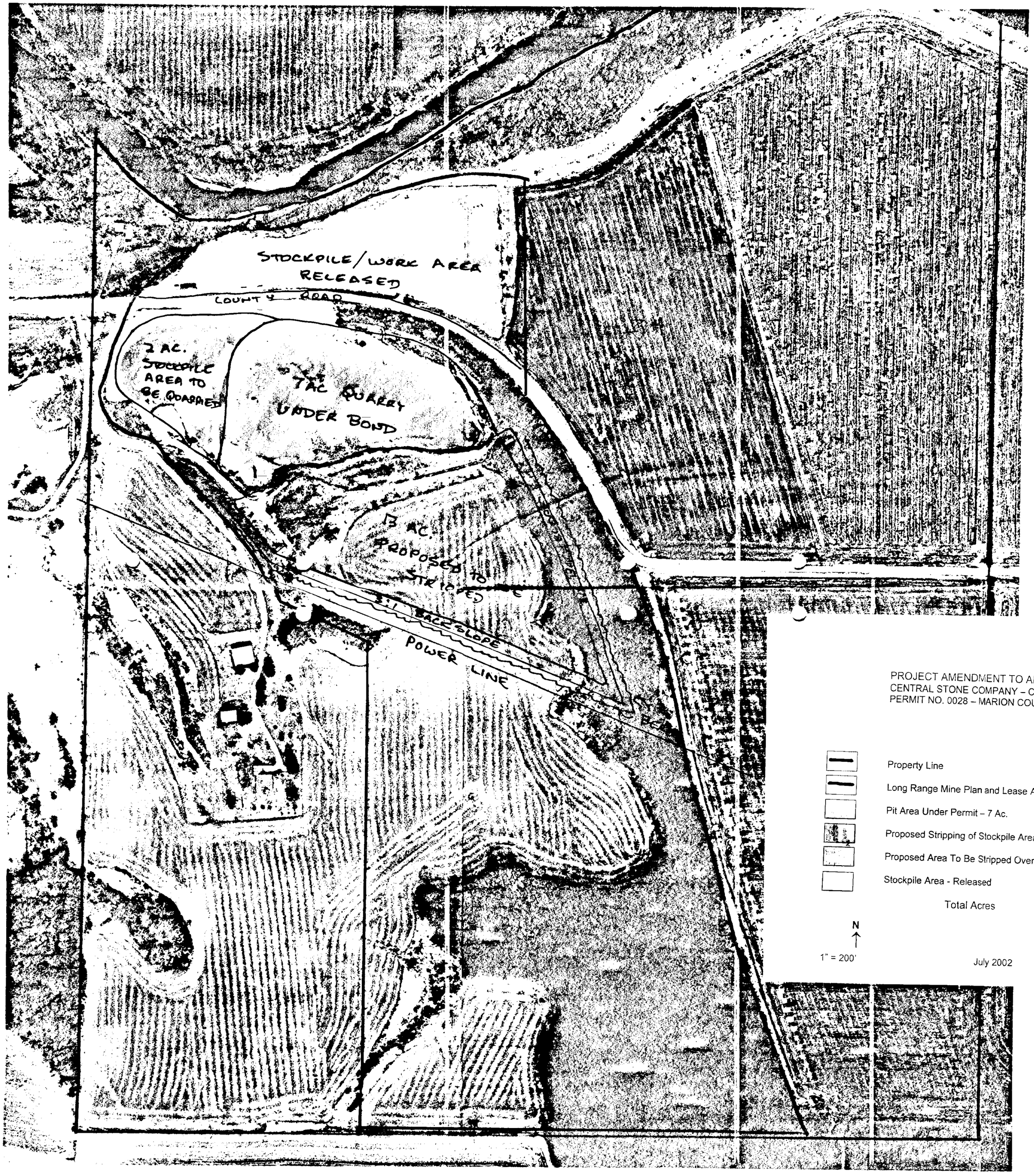
SHEET NAME

DETAIL MAP
ST. FRANCOIS
QUARRY - CS-54

SCALE: 1"=200 FEET

PROJECT NO. 301434-0

SHEET NO.



PROJECT AMENDMENT TO AFFECTED ACRES AT
CENTRAL STONE COMPANY – CS39 – TAYLOR, MO
PERMIT NO. 0028 – MARION COUNTY, MO

Property Line

Long Range Mine Plan and Lease Area

Pit Area Under Permit – 7 Ac.

Proposed Stripping of Stockpile Area Not Under Bond – 2 Ac.

Proposed Area To Be Stripped Over Period of Time – 13 Ac.

Stockpile Area - Released

Total Acres

7 Old
15 New
22 Acres Total

N

1" = 200'

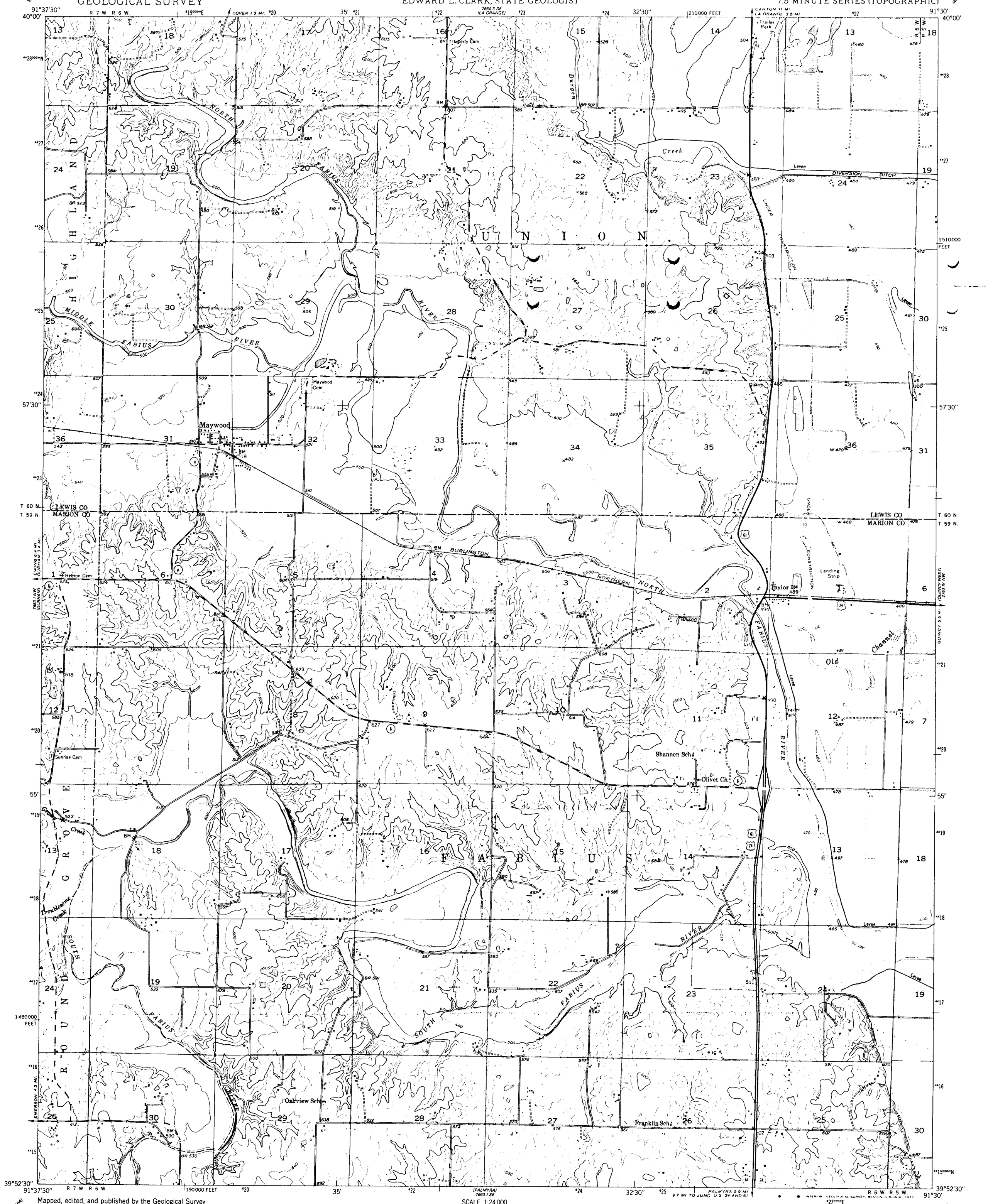
July 2002

Richard Klimstra

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES
EDWARD L. CLARK, STATE GEOLOGIST

MAYWOOD QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)



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Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1947. Field check 1949

Polyconic projection. 1927 North American datum
10,000-foot grid based on Missouri coordinate system, east zone

1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Revisions shown in purple compiled from aerial photographs taken 1975. This information not field checked

UTM GRID AND 1975 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
MISSOURI GEOLOGICAL SURVEY, ROLLA, MISSOURI 65401
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

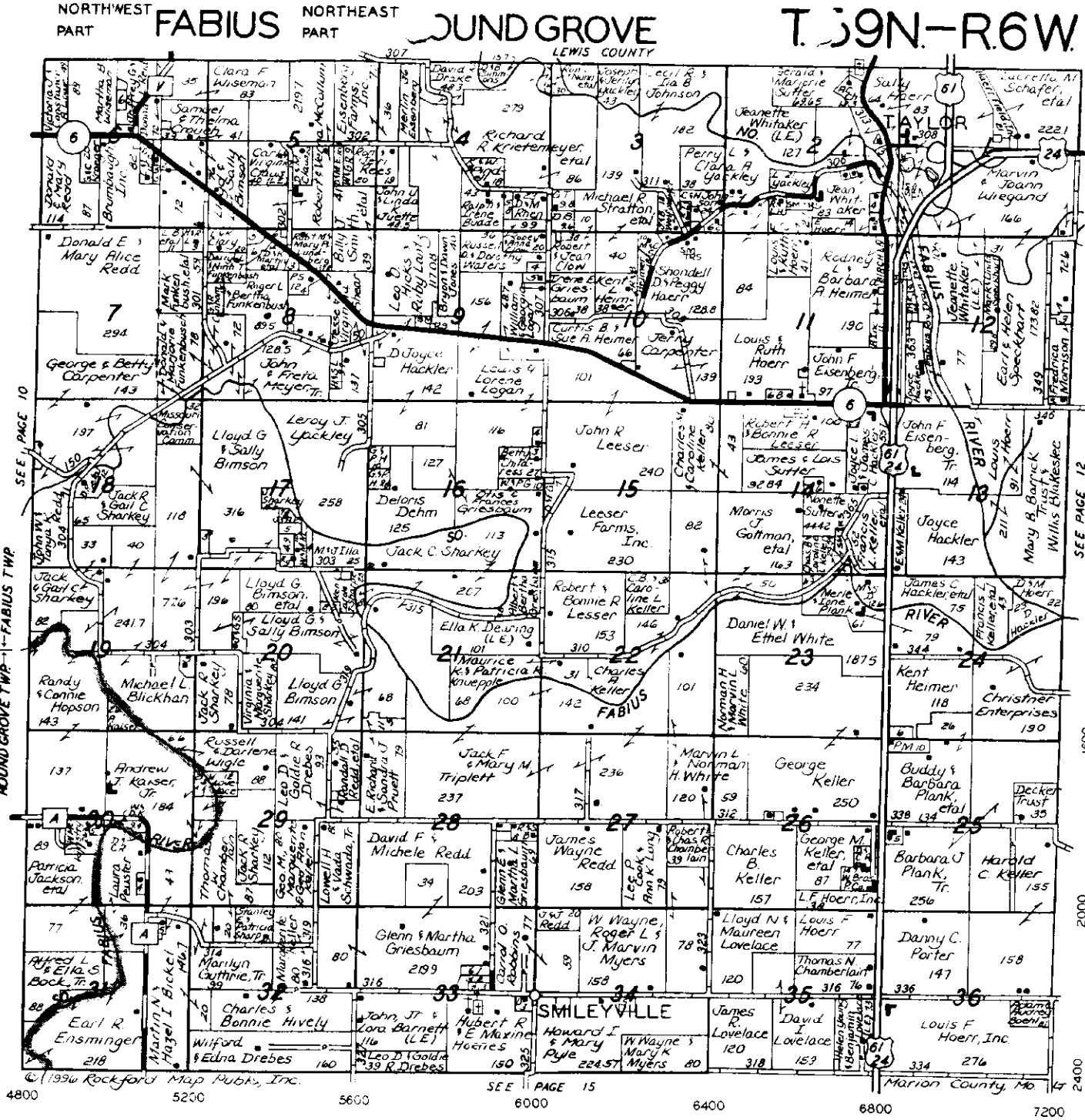
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Primary highway, all weather, hard surface
Light duty road, all weather, improved surface
Secondary highway, all weather, hard surface
Unimproved road, fair or dry weather
U. S. Route
State Route

MAYWOOD, MO.
N3952.5—W9130/7.5

1949
PHOTOREVISED 1975
AMS 7663 I NE—SERIES V879



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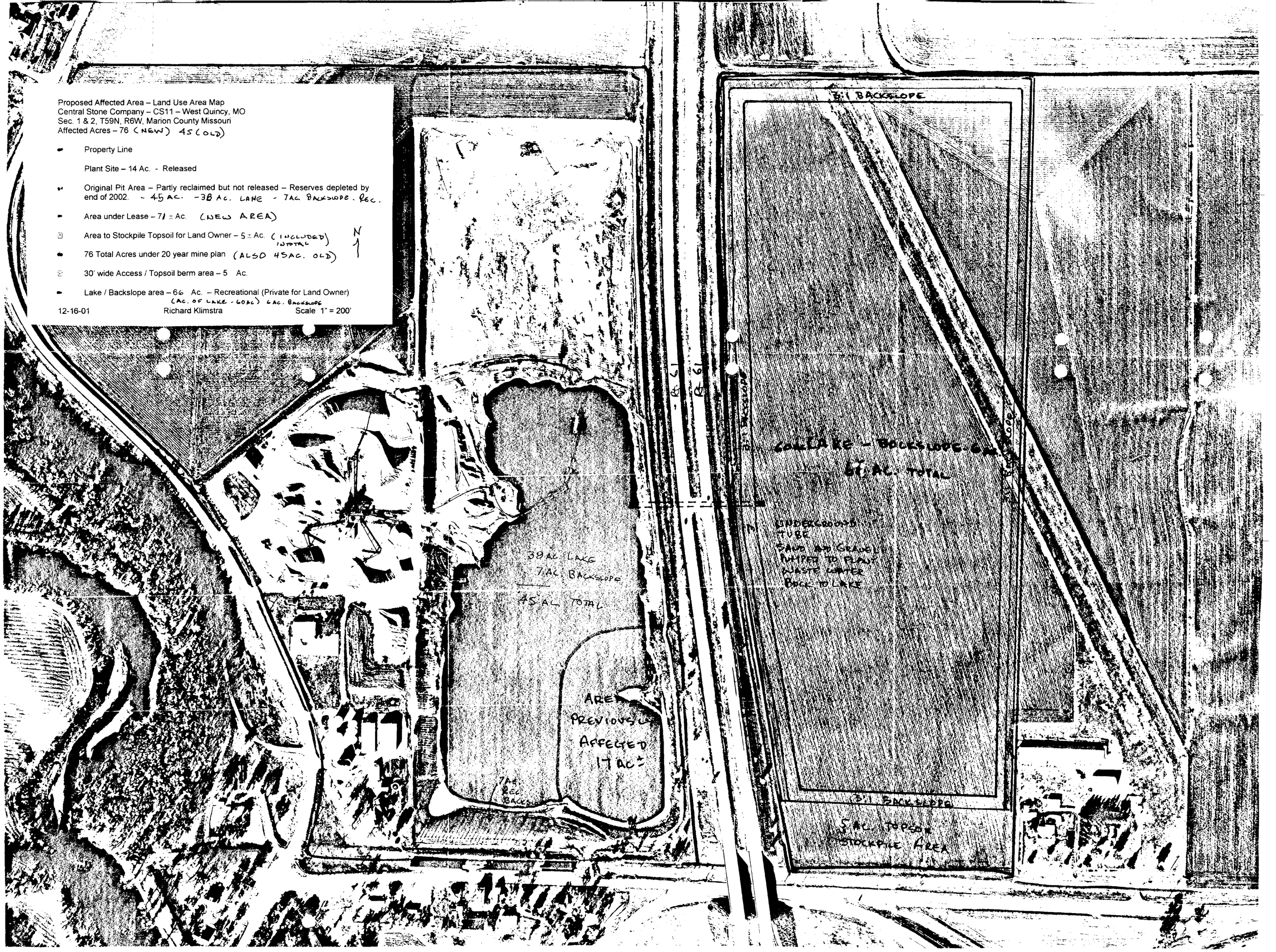
JUL 17 2002
MISSOURI LAND
RECLAMATION COMMISSION

Proposed Affected Area – Land Use Area Map
Central Stone Company – CS11 – West Quincy, MO
Sec. 1 & 2, T59N, R6W, Marion County Missouri
Affected Acres – 76 (NEW) 45 (OLD)

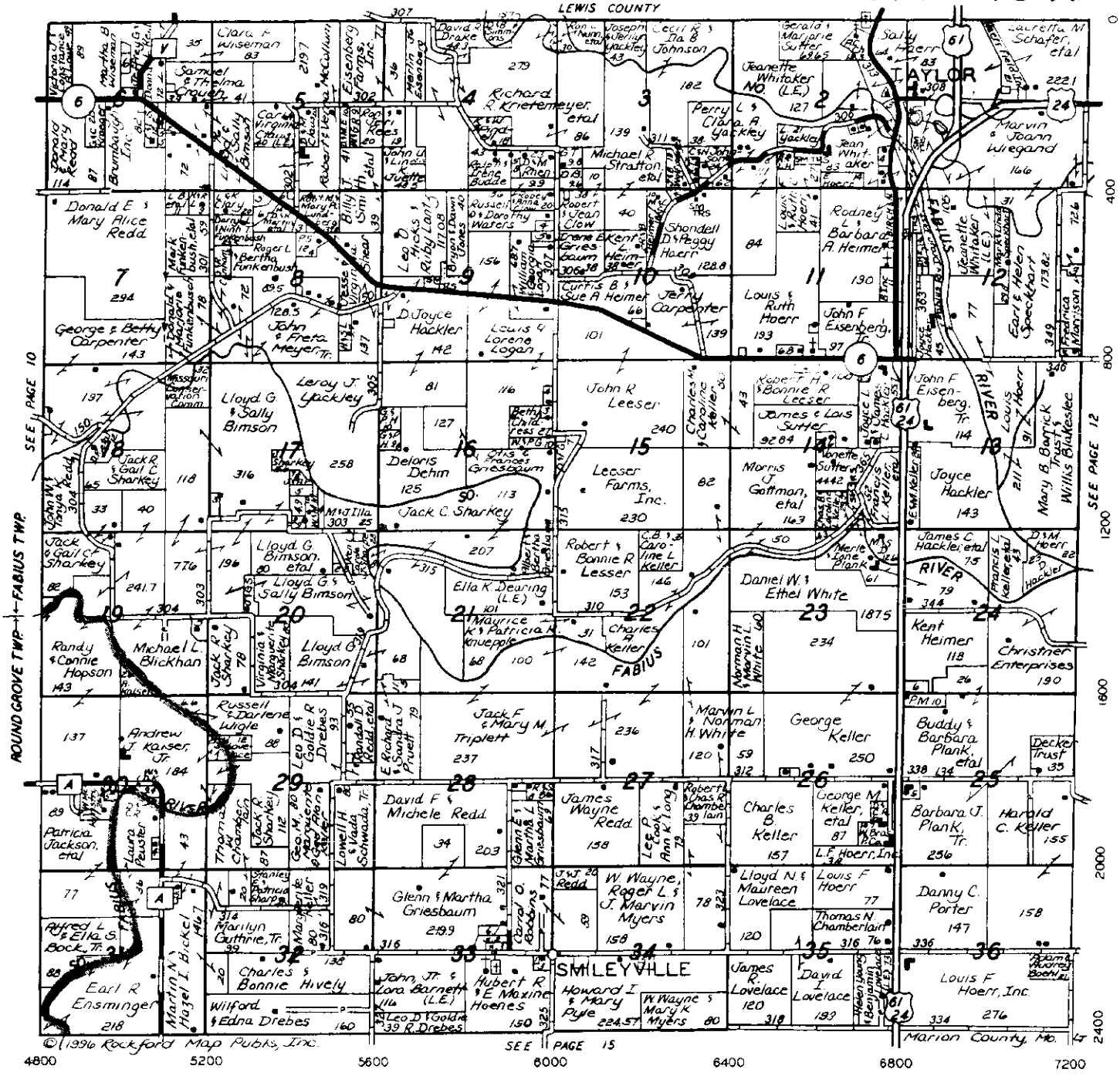
- Property Line
- Plant Site – 14 Ac. - Released
- Original Pit Area – Partly reclaimed but not released – Reserves depleted by end of 2002. - 45 AC. - 38 AC. LAKE - 7AC BACKSLOPE. REC.
- Area under Lease – 71 ± Ac. (NEW AREA)
- Area to Stockpile Topsoil for Land Owner – 5 ± Ac. (INCLUDED IN TOTAL)
- 76 Total Acres under 20 year mine plan (ALSO 45AC. OLD)
- 30' wide Access / Topsoil berm area – 5 Ac.
- Lake / Backslope area – 66 Ac. – Recreational (Private for Land Owner) (AC. OF LAKE - 60AC) 6AC. BACKSLOPE

12-16-01 Richard Klimstra Scale 1" = 200'

N



NORTHWEST PART FABIUS NORTHEA PART ROUND GROVE 59N.—R.6W.



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☐ ORGINAL SAND PIT

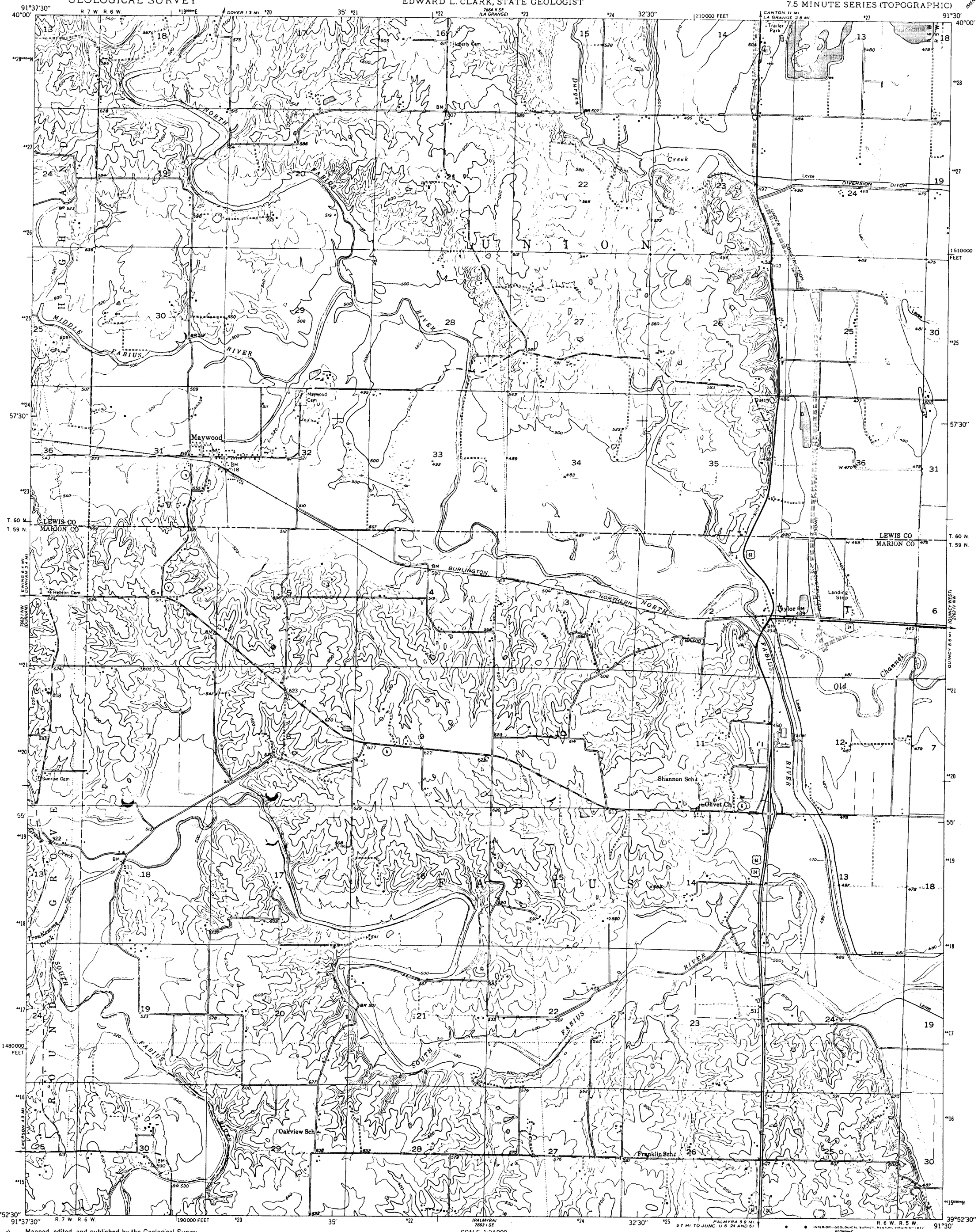
☐ NEW EXPANSION AREA.

RECEIVED
JAN - 3 2002
MISSOURI LAND
RECLAMATION COMMISSION

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MISSOURI
GEOLOGICAL SURVEY AND WATER RESOURCES
EDWARD L. CLARK, STATE GEOLOGIST

MAYWOOD QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)



PRESENT OPERATION
PERMIT EXPANSION

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Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1947. Field check 1949

Polyconic projection. 1927 North American datum
10,000-foot grid based on Missouri coordinate system, east zone

1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

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UTM GRID AND 1975 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

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QUADRANGLE LOCATION

ROAD CLASSIFICATION

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Secondary highway, all weather, hard surface — Unimproved road, fair or dry weather
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MAYWOOD, MO.
N3952.5—W9130/7.5

1949
PHOTOREVISED 1975
AMS 7663 I NE—SERIES V879