

**APPENDIX D:**  
**SUPPORTING DOCUMENTATION**



## Department of Energy

Golden Field Office  
1617 Cole Boulevard  
Golden, Colorado 80401-3393

August 19, 2010

**SUBJECT:** Notice of Scoping – A-Sep-60 – 600 kW Single Wind Turbine at Kenston Local Schools, Geauga County, Bainbridge Township, Chagrin Falls, Ohio

The U.S. Department of Energy (DOE) is proposing to provide federal funding to Kenston Local Schools to construct and operate an approximately 600 kW wind turbine in Geauga County, Ohio. The proposed project would construct and operate a wind turbine located on the Kenston School property within the town of Chagrin Falls. Details of the proposed wind turbine are provided in the attachment to this Scoping Notice. Pursuant to the requirements of the National Environmental Policy Act (NEPA) the Council on Environmental Quality (CEQ) regulations for implementing the procedural provision of NEPA (40 CFR Parts 1500-1508), and DOE's implementing procedures for compliance with NEPA (10 CFR 1021), DOE is preparing an Environmental Assessment (EA) to:

- Identify any adverse environmental effects that cannot be avoided should this proposed project be implemented.
- Evaluate viable alternatives to the proposed project.
- Describe the relationship between local and short-term uses of the environment and the maintenance and enhancement of long-term productivity.
- Characterize any irreversible and irretrievable commitments of resources that would be involved should this proposed project be implemented.

### **Potential Environmental Effects or Issues Identified for the Environmental Assessment**

The EA will describe and analyze any potential impacts on the environment that would be caused by the project and will identify possible mitigation measures to reduce or eliminate those impacts. At a minimum, DOE will evaluate potential impacts that may result from the proposed project related to:

- Land Use
- Biological Resources
- Cultural Resources
- Noise
- Safety and Occupational Health
- Socioeconomics and Environmental Justice
- Utilities
- Traffic and Transportation
- Aviation Hazards
- Electromagnetic Interferences
- Aesthetics and Shadow Flicker
- Water Resources



## **Development of a Reasonable Range of Alternatives**

DOE is required to consider a reasonable range of alternatives to the proposed action during an environmental review. The definition of alternatives is governed by the “rule of reason”, as described within the CEQ regulations regarding the administration of NEPA. An EA must consider a reasonable range of options that could accomplish the agency’s purpose and need and minimize environmental impacts. Reasonable alternatives are those that may be feasibly carried out based on environmental, technical, and economic factors.

The No Action Alternative will be addressed. The need for project redesign, or a project alternative, will be determined during the course of environmental review.

## **Public Scoping**

The DOE is sending this letter to interested federal, state and local agencies to provide information on issues to be addressed in the EA. Agencies are invited to identify the issues within their statutory responsibilities that should be considered in the EA. The general public is also invited to submit comments on the scope of the EA. The general public is also invited to submit comments on the scope of the EA.

This letter and the draft EA, when it is available, will be posted in the DOE Golden Field Office online reading room: [http://www.eere.energy.gov/golden/Reading\\_Room.aspx](http://www.eere.energy.gov/golden/Reading_Room.aspx).

The DOE Golden Field Office welcomes your input throughout our NEPA process, but to ensure that your comments are received in time to be considered in the draft EA, please provide them on or before September 8, 2010 to:

Melissa Rossiter  
NEPA Document Manager  
Department of Energy  
1617 Cole Boulevard  
Golden, CO 80401  
[Melissa.Rossiter@go.doe.gov](mailto:Melissa.Rossiter@go.doe.gov)

We look forward to hearing from you.

Sincerely,



Melissa Rossiter

## Attachment

### Kenston Local Schools Wind Turbine

The U.S. Department of Energy is proposing to provide up to \$630,500 to Kenston Local Schools for construction and operation of an approximate 600 kW single wind turbine. The School District proposes to design, permit, construct, operate and maintain the approximate 600 kW wind turbine located at 17419 Snyder Road, Chagrin Falls, Ohio.

Latitude: 41-23-39.61N NAD 83

Longitude: 81-18-17.98W

The DOE funding for this project would be paid for by the American Recovery and Reinvestment Act of 2009 and would include the following components:

- A single reconditioned approximate 600 KW wind turbine on a 42 or 60 meter tower
- Associated generator and below ground collector cables
- Underground transmission lines and connection to Kenston Local School's meter



EXHIBIT 1

This project has received media coverage from local newspapers (Chagrin Valley Times, West Geauga Sun, News Herald and Plain Dealer) since 2007. The Kenston Board of Education meets monthly and has discussed this project at its public board meetings. Numerous community groups have requested Informational presentations including the Geauga County Department of Development – Renewal Energy Workshops, Bainbridge Civic Club, Cuyahoga Community College regional workshop, Kenston Citizen Advisory Committee and Kenston Business Advisory Council. The general consensus from these public presentations has been positive. Overall, our community is excited about the economical and educational impact of Project K2.

## Documented meetings:

Monday, October 17, 2005	Board of Education Meeting, Superintendent's Report
Monday, October 16, 2006	Board of Education Meeting, 2006-129 Wind Study Agreement
Monday, February 12, 2007	Board of Education Meeting, Superintendent's Report
Monday, June 18, 2007	Board of Education Meeting, Superintendent's Report
Monday, September 17, 2007	Board of Education Meeting, Superintendent's Report
Monday, September 17, 2007	Board of Education Meeting, Educational Agreement with CSU
Monday, December 10, 2007	Board of Education Meeting, Superintendent's Report
Monday, February 11, 2008	Board of Education Meeting, Superintendent's Report
Monday, March 17, 2008	Board of Education Meeting, Superintendent's Report
Monday, March 17, 2008	Board of Education Meeting, 2008-30 Notice to Proceed
Thursday, April 17, 2008	Kenston Citizens Advisory Committee
Monday, April 21, 2008	Board of Education Meeting, Renaissance Group
Monday, April 21, 2008	Board of Education Meeting, Superintendent's Report
Monday, May 19, 2008	Board of Education Meeting, Advertise for Bids
Monday, May 19, 2008	Board of Education Meeting, Superintendent's Report
Thursday, May 29, 2008	Gauga County Renewable Energy Meeting
Monday, June 16, 2008	Kenston Board of Education Meeting, Superintendent's Report
Tuesday, June 24, 2008	Kenston Citizens Advisory Committee
Monday, July 14, 2008	Kenston Board of Education Meeting, New Fund Approval
Monday, July 14, 2008	Kenston Board of Education Meeting, Superintendent's Report
Thursday, August 18, 2008	Kenston Board of Education Meeting, Superintendent's Report
Thursday, August 28, 2008	Kenston Citizens Advisory Committee
Monday, September 15, 2008	Kenston Board of Education Meeting, Superintendent's Report
Wednesday, October 15, 2008	Business Advisory
Thursday, October 16, 2008	Kenston Board of Education Meeting, Special, Rejection of Bid
Monday, October 20, 2008	Kenston Board of Education Meeting, Superintendent's Report
Monday, November 17, 2008	Kenston Board of Education Meeting, Superintendent's Report
Thursday, November 20, 2008	Kenston Citizens Advisory Committee
Wednesday, November 05, 2008	Bainbridge Civic Club
Thursday, December 04, 2008	Kenston Citizens Advisory Committee
Wednesday, December 10, 2008	Business Advisory
Monday, December 15, 2008	Kenston Board of Education Meeting, Advertise for Bids
Monday, December 15, 2008	Kenston Board of Education Meeting, Superintendent's Report
Wednesday, January 28, 2009	Kenston Citizens Advisory Committee
Wednesday, February 11, 2009	Business Advisory
Wednesday, March 04, 2009	Kenston Citizens Advisory Committee
Thursday, April 16, 2009	Kenston Citizens Advisory Committee
Wednesday, April 29, 2009	Business Advisory
Tuesday, June 30, 2009	CAFR
Friday, September 25, 2009	PTO Council
Wednesday, October 14, 2009	Business Advisory
Friday, November 13, 2009	PTO Council
Wednesday, December 09, 2009	Business Advisory
Friday, January 29, 2010	PTO Council
Wednesday, February 03, 2010	Business Advisory
Thursday, March 18, 2010	PTO Council

RECORD OF PROCEEDINGS

Minutes of KENSTON BOARD OF EDUCATION

REGULAR Meeting

7:08 P.M.

Timmons Elementary School Multi-Purpose Room

June 18, 2007

HEARING OF PUBLIC ON NON-AGENDA ITEMS

- Michael and Jean Lanzilotti - Home Education Policy

TREASURER'S REPORT

- News Media Reported
- State Employee Data Theft - No Kenston information was involved.

SUPERINTENDENT'S REPORT

- The Move - One Year Later
- Constitutional Amendment - August is the deadline
- Wind Power - Actively Pursuing Revenue Generation for Project
  1. \$50,000 Cleveland Foundation
- Interviews for Assistant Superintendent
- New High School Principal - Nancy Santilli

NEXT REGULAR MEETING

7:00 P.M. July 23, 2007  
 Location: Timmons Elementary School Multipurpose Room

ADJOURNMENT

At 8:44 P.M., a motion was made by Timmons, seconded by Hastings, to adjourn.

APPROVED: July 23, 2007

SIGNED Joan Hamilton  
 President

ATTEST Linda M. Klein  
 Treasurer

## RECORD OF PROCEEDINGS

Minutes of **KENSTON BOARD OF EDUCATION****REGULAR** Meeting

7:00 P.M.

**Timmons Elementary School Multi-Purpose Room****October 17, 2005**2005-87DONATIONS

Upon the recommendation of the Superintendent a motion was made by Hastings, seconded by Applebaum, to accept the following donations:

- HP Scanjet 4400C from Connie Kramer to KHS Art Department.
- (28) student chairs, library books and a copier/printer from Jim and Katy Donohue to Gardiner Elementary School.

ROLL CALL: Applebaum-Yes, Hamilton-Yes, Hastings-Yes, Moreno-Yes, Timmons-Yes.  
Motion carried.

HEARING OF PUBLIC ON NON-AGENDA ITEMS

- Tom Keck, 17628 Merry Oaks Trail; questions regarding circulation of levy petition

TREASURER'S REPORT

- Update on forecast

SUPERINTENDENT'S REPORT

- Update on move for next summer
- Update on playground equipment for elementary
- January, 2006, design completion for KHS conversion to KMS
- Natural gas prices, checking on wind & solar power grant
- Security grant for present and new high school
- Still reviewing kitchen equipment
- Telephone system - looking to update to new IP phones
- School funding - Alliance for School funding - greater reliance on property taxes. Hope to get a constitutional amendment. Require the state to earmark funds to education
- The Russian trip was too costly (\$3,500). They will wait until next year.
- WKHR - Scott McVay passed away. He stepped forward to save WKHR.

NEXT REGULAR BOARD MEETING

November 21, 2005 7:00 P.M.

LOCATION: Timmons Elementary School Multipurpose Room

RECORD OF PROCEEDINGS

Minutes of **KENSTON BOARD OF EDUCATION**

**REGULAR Meeting**

7:09 P.M.

**Timmons Elementary School Multi-Purpose Room**

**October 16, 2006**

**B. APPROVAL OF DEDUCT CHANGE ORDER - CHAMPION MOVERS**

Approve a deduct change order for Champion Movers for crediting the owner the amount of unused dumpster allowance. Total amount of deduction is \$(3,000.00).

**C. APPROVAL OF DEDUCT CHANGE ORDER - CORPORATE EXPRESS BUSINESS INTERIORS**

Approve a deduct change order for Corporate Express Business Interiors for desks received tan in color and were originally specified as oak top writing surface with blue seat and back. Corporate Express offered an additional 20% off of the original purchase price of the chairs. Total amount of the deduction is \$(3,955.60).

**D. APPROVAL OF CHANGE ORDER - CORPORATE EXPRESS BUSINESS INTERIORS**

Approve a change order for Corporate Express Business Interiors for purchasing (60) CPU holders for educational tables. Total amount of the change order is \$2,959.80.

**E. APPROVAL OF CHANGE ORDER - CORPORATE EXPRESS BUSINESS INTERIORS**

Approve a change order for Corporate Express Business Interiors for purchasing the extra (100) tan student stacking chairs at a reduced price of \$20.00 per chair. Total amount of the change order is \$2,000.00.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

**2006-129 WIND STUDY AGREEMENT**

Upon the recommendation of the Superintendent, a motion was made by Hastings, seconded by Randall, to approve the Wind Study Agreement with Green Energy Ohio.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

**First Reading - Textbooks/Materials**

High School

Life of Pi, Yan Martel (Freshmen Honors Reading)

Middle School

The Definitive Edition - The Diary of a Young Girl - Anne Frank, Edited by Otto H. Frank and Mirjam Pressler (8<sup>th</sup> Grade Honors Reading)

**2006-130 DONATIONS**

Upon the recommendation of the Superintendent, a motion was made by Timmons, seconded by Hamilton, to approve the following:

RECORD OF PROCEEDINGS

Minutes of KENSTON BOARD OF EDUCATION

REGULAR Meeting

7:05 P.M.

Timmons Elementary School Multi-Purpose Room

February 12, 2007

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

2007-23 DONATIONS

Upon the recommendation of the Superintendent, a motion was made by Hastings, seconded by Hamilton, to accept the following donations:

- Keyboard trays to KHS English A110 from Andy Kenen.
- Repair to EMAC computer to KHS English A110 from Andy Kenen
- Wheelchair to KMS Clinic from KMS PTO.
- Hallway painting at KMS from KMS PTO.
- \$50 from the Fisher family to the KHS website.
- Adobe Premier Elements to KHS Room 213 (Mr. Continenza) from Andy Kenen.
- A TEC rookie pitching machine and stand from Mrs. Karen Davis to KHS Athletics.
- \$500 to the KHS Fastpitch team from an anonymous donor.
- \$100 from the Sabo Family to the KHS website.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

HEARING OF PUBLIC ON NON-AGENDA ITEMS

- Mr. Thomas Keck, 17628 Merry Oaks - Regarding Kenston Citizens Advisory Committee.

TREASURER'S REPORT

- STRS Resolution will be sent to STRS, Legislators, Governor Strickland, OSBA, BASA and the media.

SUPERINTENDENT'S REPORT

- Wind Study
  - Connect to present radio tower, 2-3 weeks.
  - Green Energy will work with our science department. Students will be involved with data.
  - Potential of Kenston Wind Turbine site.
- Lighting
  - KHS Gym Lighting - Increased lumen level.
  - Student Entrance - Still need more light.
- Curriculum - Margaret Searle met with 40 staff members. Align our practices - will have a follow up in March.
- Kindergarten Orientation - GELC
- Even Start Program - GELC, hoping to extend parent involvement.

# Appendix D, Attachment D2

## RECORD OF PROCEEDINGS

Minutes of KENSTON BOARD OF EDUCATION

REGULAR Meeting

7:08 P.M.

Timmons Elementary School Multi-Purpose Room

June 18, 2007

Y. APPROVAL OF CONTRACTED SERVICE - ESY

Approve a contract with Sue Hogan to provide ESY summer educational services (reading) at an hourly rate of \$30, for a maximum of 24 hours, not to exceed \$720 from June through August, 2007.

Z. APPROVAL OF WORKERS' COMPENSATION GROUP RATING PROGRAM

Approve the OSBA Workers' Compensation Group Rating Program for the 2007-2008 school year. The projected savings is \$63,076. The enrollment fee is \$3,858.

AA. APPROVAL OF GRANT AGREEMENT

Approve a Grant Agreement with the Cleveland Foundation to accept a grant in the amount of \$50,000 to be used for the wind energy installation project.

BB. APPROVAL OF LEASE

Approve a lease agreement with the Auburn Learning Garden for space at Auburn School for one year beginning August 1, 2007.

CC. APPROVAL OF CONTRACT - CAWRSE AND ASSOCIATES

Approve a contract with Cawrse and Associates to provide construction administration for the parking lot pavement project in the amount of \$1,250.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Timmons-Yes

Motion carried.

2007-55 DONATIONS

\$25 to the KHS Website from the Wandrey Family  
\$500 to the TES 3<sup>rd</sup> Grade Challenge Program from Mr. and Mrs. B. G. Pine  
\$2000 to KIS teachers' classrooms from Mr. James Donohue  
Computer monitor to the TES computer lab  
from Mr. and Mrs. Theodore Frank

\$250 to KIS Principal's Fund from Mr. William Malm.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Timmons-Yes

Motion carried.

First Reading

Textbooks/Materials

Biology, A.P. Edition, Campbell/Reece, Pearson, 7<sup>th</sup> Edition, © 2005 (for A.P. Biology and Biology II - high school)

# Appendix D, Attachment D2

## RECORD OF PROCEEDINGS

Minutes of KENSTON BOARD OF EDUCATION

REGULAR Meeting

7:08 P.M.

Timmons Elementary School Multi-Purpose Room

September 17, 2007

resource room program at Auburn Career Center for the 2007-2008 school year at an estimated cost of \$10,000 per student not to exceed \$20,000.

M. APPROVAL OF CONTRACT - BEECH BROOK

Approve a contract with Beech Brook for consultations and therapeutic services for a student attending the Gund School program for behavior disorders at an estimated daily cost of \$160 not to exceed \$28,800 for the 2007-2008 school year.

N. APPROVAL OF CONTRACT - GEAUGA COUNTY EDUCATIONAL SERVICE CENTER

Approve a contract with the Geauga County Educational Service Center for educational aide services for five Kenston students with multiple disabilities/autism attending MD/AU/PreK satellite classrooms at a cost of \$138,717 for the 2007-2008 school year.

O. APPROVAL OF CONTRACT - KORENKO SERVICES, INC.

Approve a contract with Korenko Services, Inc. for physical therapy services (evaluation, therapy and consultation) at an hourly rate of \$65 for a maximum of 385 hours at a cost not to exceed \$25,000, for the 2007-2008 school year.

P. APPROVAL OF CONTRACT - GEAUGA COUNTY EDUCATIONAL SERVICE CENTER

Approve a contract with the Geauga County Educational Service Center for special education services (supervisors, interventionist, audiological and work/study coordinator) at a cost of \$61,083.61 for the 2007-2008 school year.

Q. APPROVAL OF CONTRACT - GEAUGA COUNTY EDUCATIONAL SERVICE CENTER

Approve a contract with the Geauga County Educational Service Center for related services to six Kenston students with multiple disabilities attending MD satellite classes at an estimated cost of \$54,133 for the 2007-2008 school year.

R. APPROVAL OF CONTRACT - WESTERN RESERVE SPEECH AND LANGUAGE PARTNERS

Approve a contract with Western Reserve Speech and Language Partners, Inc. for a diagnostic evaluation and consultation at a cost of \$600 during August, 2008.

S. APPROVAL OF AGREEMENT - CLEVELAND STATE UNIVERSITY

Approve an agreement between Kenston Local Schools and Cleveland State University to develop an educational partnership with the Wind Turbine Project.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

# Appendix D, Attachment D2

## RECORD OF PROCEEDINGS

Minutes of KENSTON BOARD OF EDUCATION

REGULAR Meeting

7:08 P.M.

Timmons Elementary School Multi-Purpose Room

September 17, 2007

### HEARING OF PUBLIC ON NON-AGENDA ITEMS

- Sandy Cipiti, 17819 Chillicothe Road - Ben Cipiti - Kenston Graduate 1996, Ohio University Graduate 2000, PHD 2004 Graduate from University of Wisconsin-Madison in Nuclear Engineering.  
The Energy Construct, book written by Ben Cipiti, was donated to Kenston Schools.
- Joe Drake, 18220 Washington St. - Landscaping Contract, do a bid in the fall. Bid requirement \$25,000. Kenston Citizen Advisory Committee had a public records request and got prices.
- Lena Roff, 17615 Indian Hills - KHS parking pass cost, School Pictures Commission, 4<sup>th</sup> period lunch - not enough food, Principal's Accounts
- Tom Keck, 17628 Merry Oaks Trail - Hiring Practice

### TREASURER'S REPORT

- Audit
- Permanent Appropriation
- Records

### SUPERINTENDENT'S REPORT

- Suspected Case of Meningitis (ended up not being meningitis) - Health Department Commission
- Agreement with Cleveland State University  
Wind Power Project - working with their tech department  
Grant through Rep. Dolan and Cleveland State - \$300,000
- Risk Management Audit - 10% Discount on Insurance Rate
- October 6<sup>th</sup> - Dedication for the Howard Family  
Marker at Snyder Road Entrance 1 P.M.
- School Start and Open houses went well.

### NEXT REGULAR MEETING

7:00 p.m. October 15, 2007  
Location: Timmons Elementary School Multipurpose Room

# Appendix D, Attachment D2

## RECORD OF PROCEEDINGS

Minutes of KENSTON BOARD OF EDUCATION

REGULAR Meeting

5:37 P.M.

Timmons Elementary School Multi-Purpose Room

December 10, 2007

2007-114 APPROVAL TO APPOINT AUBURN CAREER CENTER BOARD REPRESENTATIVE

Approve Ralph Hastings as the Auburn Career Center board representative for the year 2008.

ROLL CALL: Hamilton-Yes, Hastings-Abstain, Moreno-Yes, Randall-Yes

Motion carried.

OATH OF BOARD MEMBER - Joan Hamilton, Ralph Hastings, Anne Randall

OATH OF TREASURER - Linda Hein

2007-115 DONATIONS

Upon the recommendation of the Superintendent, a motion was made by Moreno, seconded by Randall, to approve the following

- \$25 from Laura and James Flaiz to the KMS Performing Arts Club.
- \$25 from Kathleen Thorn, Alan Thomas and Abra Schweickert to the KMS Performing Arts Club.
- \$25 from Heather and David Long to the KMS Performing Arts Club.
- \$500 from Hoehnen Landscaping to the Kenston Community Stadium Fund.
- \$15 from Tammy Fallon to the KMS Performing Arts Club.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes

Motion carried.

First Reading

Policies

5460 Graduation Requirements

HEARING OF PUBLIC ON NON-AGENDA ITEMS

- None
- 

TREASURER'S REPORT

- Preparation of Tax Budget

SUPERINTENDENT'S REPORT

- Stadium Renovation Committee
- Wind Project
- ODE - High School/Timmons Elementary nominated as Schools of Distinction.

RECORD OF PROCEEDINGS

Minutes of KENSTON BOARD OF EDUCATION

REGULAR Meeting

7:22 P.M.

Kenston Board of Education - Conference Room

February 11, 2008

\$50 from Mr. and Mrs. Jonathan McKnight to the KHS Website.  
HP printer to Kenston Middle School from Mr. Mark Ging.  
20 pairs of cross country skis to the TES Physical Education Department  
from TES Student Council and TES PTO.  
Saxophone and trumpet to the KIS Music Department from Mrs. Nancy  
Olson.  
\$50 from Jon and Leigh Ann Deeter to the KHS website.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

HEARING OF PUBLIC ON NON-AGENDA ITEMS

- Ralph Hastings - Student Directory  
Snow Plowing

TREASURER'S REPORT

- None

SUPERINTENDENT'S REPORT

- 4<sup>th</sup> Snow Day - We can have up to 6 days. We may have a 1 hr/2 hr delay.
- Friday was the Wind Power Architect Interviews. August-October target date.
- First Energy called today regarding energy storage projects.
- Governor's State of the Address - comments

NEXT REGULAR MEETING

7:00 p.m. March 17, 2008  
Location at Timmons Elementary School Multipurpose Room

ADJOURNMENT

At 8:38 P.M., a motion was made by Hastings, seconded by Randall to adjourn.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried

APPROVED: March 17, 2008

SIGNED William C. Timmons  
President

ATTEST Jude M. New  
Treasurer

RECORD OF PROCEEDINGS  
REGULAR Meeting

Minutes of KENSTON BOARD OF EDUCATION  
7:10 P.M.  
Timmons Elementary School Multi-Purpose Room  
March 17, 2008

*Memo  
Mind  
Darker*

- \$1,750 from the Kenston Athletic Boosters to the Kenston Community Stadium Fund.
- \$150 from Mr. and Mrs. Jeff Hanig to Kenston Local Schools.
- (2) minutes for the board in the KHS Auditorium from Andy Karen.
- \$150 from Mr. Michael Tolletson to the KHS Community Stadium Fund.
- \$151 from an anonymous donor to the KHS 6<sup>th</sup> grade trip.
- \$100 from Mr. Charlene Powers to the KHS 6<sup>th</sup> grade trip.
- Recycling bins to the KHS cafeteria from Sodexo Services.
- \$30 from an anonymous donor to the KHS 6<sup>th</sup> grade trip.
- \$25 from Mrs. Brenda Bush to the KHS 8<sup>th</sup> grade trip.
- \$100 from Mr. and Mrs. Timothy Miller to the KHS 7<sup>th</sup> grade camp program.
- \$75 from an anonymous donor to the KHS 6<sup>th</sup> grade trip.
- \$100 from Mr. and Mrs. Thomas Royer to the KHS 7<sup>th</sup> grade camp program.
- \$150 to the Science Olympiad from Benku Thomas and Oksan Yi.
- \$50 from the Cardman family to the KHS 8<sup>th</sup> grade trip.
- \$30 from Mr. and Mrs. Phillip Wandy to the KHS Website.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Timmons-Yes  
Motion carried.

HEARING OF SPORTS OR NON-AGENDA ITEMS

- Mr. Thomas Kock, 17628 Merry Oaks - Questions regarding nepotism.
- Bill Timmons - Questions regarding Transportation Department, Potatoes and paint booth.

TREASURER'S REPORT

- Tax Rate Resolution will be forwarded to Gaauga County Treasurer.

SUPERINTENDENT'S REPORT

- Tracy Jensen did a great job reporting on the shrinking state funding for the county at the Library Forum.
- Show Days - We are out.
- Jared's law - Inspect all school districts on health and safety.
- 11 retired this year. Many with over 30 years of service.
- Discussed an article regarding Gov. Strickland, who is evaluating the roll of the Superintendent of Public Instruction.
- Mind Power Project will allow student involvement.

## RECORD OF PROCEEDINGS

Minutes of KENSTON BOARD OF EDUCATION

REGULAR Meeting

7:10 P.M.

Timmons Elementary School Multi-Purpose Room

March 17, 2008

## F. APPROVAL OF CONTRACT - EYERMAN LANDSCAPING

Approve a contract for cutting grass to Eyerman Landscaping for the 2008 season at a price per cut of \$1400 for the entire Kenston campus, as well as the breakdown pricing for each individual building.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Timmons-Yes

Motion carried.

2008-30 APPROVAL OF NOTICE TO PROCEED

Upon the recommendation of the Superintendent, a motion was made by Moreno, seconded by Hastings, to approve the following:

A notice to proceed, with the Renaissance Group, on the pre-design phase of the wind power project for an amount not to exceed \$4000.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Timmons-Yes

Motion carried.

2008-31 DONATIONS

Upon the recommendation of the Superintendent, a motion was made by Hamilton, seconded by Hastings, to accept the following:

(2) Velbon 607 camera tripods to the KHS English Dept. from Andy Kenen.  
 TV with wall mount to the KHS English Department from Andy Kenen.  
 \$150 to the KHS Science Olympiad Team from Marilyn Callaly.  
 \$50 to the 7<sup>th</sup> grade camp trip from an anonymous donor.  
 \$100 to the 7<sup>th</sup> grade camp trip from Mr. and Mrs. Jim Gray.  
 \$30 to the 7<sup>th</sup> grade camp trip from Mr. and Mrs. Doug Heneghan.  
 \$50 to the 7<sup>th</sup> grade camp trip from Mr. and Mrs. Ted Frank.  
 \$20 to the 7<sup>th</sup> grade camp trip from Mr. and Mrs. Steve Goldsword.  
 \$1675 for TES Student Programs, \$1220 for TES Student Directories and \$500 for skis from the TES PTO.  
 \$100 donation from Tate Coverdale to the KMS 6<sup>th</sup> grade trip.  
 \$50 donation from Patty and Chris Cook to the KMS 6<sup>th</sup> grade trip.  
 \$468 donation from an anonymous donor to the KMS 6<sup>th</sup> grade trip.  
 \$50 donation from Lauri Gross to the KMS 6<sup>th</sup> grade trip.  
 \$50 donation from the Kusner Family to the KMS 6<sup>th</sup> grade trip.  
 \$25 donation from Leigh Miller to the KMS 6<sup>th</sup> grade trip.  
 \$25 donation from Julie Navid to the KMS 6<sup>th</sup> grade trip.  
 \$1000 donation from Tammy and Jeff Fallon to the KMS 6<sup>th</sup> grade trip.  
 \$50 donation from Pete and Beth Krause to the KMS 6<sup>th</sup> grade trip.  
 \$10 donation from Dawn Andrews to the KMS 7<sup>th</sup> grade camp program.  
 \$50 donation from Brian Landsman to the KMS 7<sup>th</sup> grade camp program.  
 \$40 donation from S. Kwon Lee to the KMS 8<sup>th</sup> grade trip.  
 \$100 donation from Dr. and Mrs. Scott Shell to the KMS 8<sup>th</sup> grade trip.  
 \$500 donation from Mr. and Mrs. Kurt Epprecht to the KMS 8<sup>th</sup> grade trip.  
 \$25 donation from Mr. and Mrs. Jeffrey Bush to the KMS 8<sup>th</sup> grade trip.  
 \$12,500 from Auburn Twin Oaks to the GELC - LEAP Program.  
 \$500 from the Auburn Bainbridge Joint Rec Board to the Kenston Community Stadium Fund.

RECORD OF PROCEEDINGS  
 MINUTES OF KENSTON BOARD OF EDUCATION  
 REGULAR Meeting  
 7:10 P.M.

Timmons Elementary School Multi-Purpose Room April 21, 2008

- E. APPROVAL OF CONTRACT - T. WOLFHOPE  
 Approve a contract with Tracy Wolfhope for tutoring services in the Wilson Reading Program at a cost not to exceed \$600 for the 2007-2008 school year.
- F. APPROVAL OF CONTRACT - LENA  
 Approve a contract with LENA (Lake George Educational Assistance Foundation) to provide financial aid advisory services during the 2008-2009 school year at a cost of \$3,150.
- G. APPROVAL OF LETTER OF COMMITMENT  
 Approve a letter of commitment with The Cleveland Clinic One Community and LGCA to partner together to deliver health related media to grades K-12.
- H. APPROVAL OF FACILITY AGREEMENT - AMERICAN RED CROSS  
 Approve a facility agreement with the Greater Cleveland Chapter of the American Red Cross for the use of school buildings in the Kenston School District by the American Red Cross in the event of an emergency.
- I. APPROVAL OF CONTRACT - CAWRISE & ASSOCIATES, INC.  
 Approve a contract with Cawrise & Associates, Inc. to provide engineering and planning services to evaluate the paving at the Kenston Middle School and Kenston Intermediate School.
- J. APPROVAL OF CONTRACT - RENAISSANCE GROUP  
 Approve a contract with the Renaissance Group to provide design services for the wind power project at a cost of \$80,000.
- K. APPROVAL TO ADVERTISE FOR BIDS  
 Approve the advertisement of bids for the summer 2008 paving project.
- L. APPROVAL OF RESOLUTION  
 Approve a resolution to approve two State Waiver Days for the purpose of Professional Development on October 16, 2008 and February 17, 2009.

ROLL CALL: Hamilton-Yes, Hueting-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
 Motion Carried.

2008-29 DONATIONS

Upon the recommendation of the Superintendent, a motion was made by Randall, seconded by Hamilton, to accept the following:  
 1964 Kenstonian Yearbook from Paul Koballa to the Kenston Community Archives.

RECORD OF PROCEEDINGS  
Minutes of KENSTON BOARD OF EDUCATION

REGULAR Meeting

7:10 P.M.

Timmons Elementary School Multi-Purpose Room April 21, 2008

- **Kind Power** - Moving forward with soil borings and design serviced.
- Legislature passed Jarod's Law - Extensive list of Health Department requirements.

EXECUTIVE SESSION - PERSONNEL CONTRACT NEGOTIATIONS

At 7:45 P.M., a motion was made by Moreno, seconded by Hamilton, to recess into executive session for personnel contract negotiations.

ROLL CALL: Hamilton-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes, Meetings-abstained and immediately excused himself. Motion carried.

At 9:18 P.M., the meeting resumed.

ROLL CALL: Hamilton-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes Motion carried.

NEXT REGULAR MEETING

7:00 P.M. May 19, 2008  
Location: Timmons Elementary School Multipurpose Room

ADJOURNMENT

At 9:18 P.M., a motion was made by Moreno, seconded by Randall, to adjourn.

ROLL CALL: Hamilton-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes Motion carried.

APPROVED: May 19, 2008

SIGNED William C. Timmons  
President

ATTEST Jack H. Lee  
Treasurer

RECORD OF PROCEEDINGS  
REGULAR Meeting

Minutes of KENSTON BOARD OF EDUCATION  
7:05 P.M.  
Timmons Elementary School Multi-Purpose Room  
May 19, 2008

II. APPROVAL TO ADVERTISE FOR BIDS - KIMO POWER

Approve the advertisement of bids for the wind power project.

O. APPROVAL OF AGREEMENT - ONE DIRECT CERTIFICATION

Approve an agreement with the Ohio Department of Education, Office for Safety, Health and Nutrition to implement the direct certification process to certify students as eligible for free school meals under the Food Stamp Program.

ROLL CALL: Hamilton-Yes, Hoelings-Yes, Morono-Yes, Randall-Yes, Timmons-Yes  
Holton carried.

2008-4E DONATIONS

Upon the recommendation of the Superintendent, a motion was made by Randall, seconded by Morono, to accept the following:

- Miscellaneous children's storybooks from Mr. and Mrs. Todd Walker to TES teacher, Mrs. Il'Giovane's classroom.
- Miscellaneous weight room equipment to the KHS/RHS weight room from Mr. Phil Lowry.
- \$50 to the Kenston Community Stadium Fund from Dr. Robert A. Lee.
- Holton trumpet to the KIS Music Department from Mr. Anthony Halli.
- Pencils for canteen for KIS from KIS PTO.
- \$1000 to the KIS Principal's fund, \$600 towards the Grade 5 field trip from KIS PTO.
- \$5000 From the Musical Arts Association of Kenston to the Kenston Community Stadium Fund.
- \$5000 from Mr. and Mrs. Jim Althans to the Kenston Community Stadium Fund.
- \$205.75 From KHS Athletics to the Kenston Community Stadium Fund.
- \$1000 from the Corline L. Dodaro Trust for Arts & Science to Mrs. Cathy Zink's 4<sup>th</sup> grade classroom
- Vegetables and dip from Sodakho Food Service to the KIS last day for Students party.

ROLL CALL: Hamilton-Yes, Hoelings-Yes, Morono-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

First Reading - Textbook/Materials

- The Talent Show from the Black League, Mike Thaler (Grade 2 Challenge)
- See You Later, Gladfater, Jon Sclarska (Grade 2 Challenge)
- The Magic Finger, Ronald Dahl (Grade 2 Challenge)
- Skippyjon Jones, Judy Schachnov (Grade 2 Challenge)
- Workshop Statistics - Discovery with Data and the Graphing Calculator, Edition 3, Rosenman, © 2008, Key College Publishing, (Statistics, KHS)

RECORD OF PROCEEDINGS  
Minutes of KENSTON BOARD OF EDUCATION REGULAR Meeting

Timmons Elementary School Multi-Purpose Room May 19, 2008  
7:05 P.M.

HEARING OF PUBLIC ON NON-AGENDA ITEMS

- Katlin Sierra, 19029 Ravenna Rd. - Football and Basketball Cheerleading Tryouts and Judging.
- Melissa Thomas, 8989 Old Meadow Dr. - Concern of public access to bus routes, web site and mailings.

TREASURER'S REPORT

- Thanks to Joan Redmond for years of service.
- Forecast will be on Web Site at ODE.

SUPERINTENDENT'S REPORT

- Review KEA agreement and settlement.
- Wind Power Project will be on TV tonight.
- Thanks to Joan Redmond for years of service.
- Auburn School - church is still there, childcare is still pending. New developments from fire department came in today. Another church is interested.

NEXT REGULAR MEETING:

7:00 P.M. June 16, 2008  
Location: Timmons Elementary School Multipurpose Room

ADJOURNMENT

At 8:15 P.M., a motion was made by Randall, seconded by Hamilton, to adjourn.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

APPROVED: June 16, 2008

SIGNED William C. Timmons  
President

ATTEST Shirley M. Allen  
Treasurer

RECORD OF PROCEEDINGS  
REGULAR Meeting  
Minutes of KENSTON BOARD OF EDUCATION

Timmons Elementary School Multi-Purpose Room June 16, 2008  
7:06 P.M.

TREASURER'S REPORT

- Special Thanks to all retirees.
- Levy Discussion. Thanks to all Principals, Maintenance and Transportation Departments for working on cost saving programs.
- Thanks to Mr. Hastings for work on the Finance Committee Levy Options.

SUPERINTENDENT'S REPORT

- Newbury Annexation - Newbury will not pursue.
- Wind Power
- PAVING - Re Bid will push us into an August project.
- Insurance - Savings, Insurance 3% audit reduction.
- Commencement - Great Ceremony, Congratulations.
- Regarding sudden death of Tim Mass - Thanks to KMS Leadership for their counseling and support for the students. Thanks to Mrs. Santilli and her staff.
- Katie Poe and Jack DiCello, new principals at TSS and KIS.
- Tim Barrett - Best wishes, Thanks for years of service at Kenston.

NEXT REGULAR MEETING

7:00 P.M. July 14, 2008  
Location: Timmons Elementary School Multipurpose Room

ADJOURNMENT

At 8:25 P.M., a motion was made by Randall, seconded by Hamilton, to adjourn.

APPROVED: July 14, 2008

SIGNED: William C. Simmons  
President

ATTEST: Jack H. He.  
Treasurer

RECORD OF PROCEEDINGS  
 REGULAR Meeting  
 Minutes of KENSTON BOARD OF EDUCATION  
 7:09 P.M.  
 Timmons Elementary School Multi-Purpose Room  
 July 14, 2008

A. FINANCIAL REPORTS

Approve the financial reports for the month of June 2008 along with warrant nos. 81136 through 81464 in the amount of \$3,020,102.74.

B. NEW FUND APPROVAL

Approve the following new fund:  
 004-9008 \$50,000 Cleveland Foundation Wind Energy Installation Project Grant

C. TRANSFERS

Approve the following transfers from general fund:

\$20,000 to EBIS  
 \$18,385 to RMS Athletics  
 \$36,500 to Boys Athletics  
 \$41,700 to Girls Athletics

D. AMEND TEMPORARY APPROPRIATION RESOLUTION 2008-2009

Approve the amended temporary appropriation resolution for 2008-2009.

ALL FUNDS TYPES		2008-2009
Fund Class/Name	Fund Number/SCC	Temporary
		Total Appropriation
General Fund	001	34,838,000.00
Special Revenue Class		
Prim Fund/Camp/Washington	018 Stadium	1,000,000.00
Athletic Activities	300	350,000.00
Auxiliary Fund*	401	850,000.00
Teacher Development	416	25,000.00
Lottery	422	25,000.00
M.I.S.	432	0.00
Entry Year	440	50,000.00
OneNet	451	0.00
School Net Prof. Dev	452	55,000.00
State Instr. Materials	455	15,000.00
IVDL	458	0.00
OHIO READS	459	35,000.00
Summer School Subsidy	460	35,000.00
Core	499	75,000.00
Title II	514	5,000.00
Title VI-B	516	16,000.00
Chapter I	572	655,000.00
		320,000.00

RECORD OF PROCEEDINGS  
MINUTES OF KENSTON BOARD OF EDUCATION  
REGULAR Meeting  
7:09 P.M.  
Timmons Elementary School Multi-Purpose Room July 14, 2008

H. APPROVAL OF COURSE OF STUDY  
Approve the following courses of study for the 2008-2009 school year:  
K-5 Language Arts Course of Study  
K-12 Math Course of Study

I. APPROVAL OF PURCHASE  
Approve the purchase of an 84-passenger transit type bus in the amount of \$78,800 and a 77-passenger conventional type bus for \$80,900 from Power City International.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes

2008-65 DONATIONS  
Upon the recommendation of the Superintendent, a motion was made by Hamilton, seconded by Hastings, to approve the following:

- \$5000 from Mrs. Betty Clemens to the Kenston Community Stadium Fund.
- \$150 United Way from Jeff & Lisa Manis to Kenston Local Schools.
- 600 various trade books from Sunny Doney to YES 1<sup>st</sup> grade classrooms.
- 1,137 personal storybook/word books from Gail Petruzzi to YES 2<sup>nd</sup> grade classrooms.
- \$4000 from the Wachovia Foundation to the Kenston Community Stadium Fund.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

First Reading - Textbooks/Materials  
English, Grades 1-5, Houghton Mifflin © 2006  
Spelling & Vocabulary, Grades 3-5, Houghton Mifflin © 2006

HEARING OF PUBLIC ON NON-AGENDA ITEMS

- None

TREASURER'S REPORT

- None
- 

SUPERINTENDENT'S REPORT

- Linda Hein's medical status
- Wind Power Project update
- Paving Bids
- Chinese Language Program



RECORD OF PROCEEDINGS  
Minutes of KENSTON BOARD OF EDUCATION REGULAR Meeting

7:08 P.M. September 15, 2008  
Kenston Board of Education Office

(2) song digital recorders and extended warranties from Andy Kenon to the KHS English Department.  
1994 Volleyball Program and 1994 Volleyball Fan from Bob Hamilton to the Kenston Community Relations Archives.  
\$200 from John Althans to the KHS Stadium Project.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

HEARING OF PUBLIC ON NON-AGENDA ITEMS

- None

TREASURER'S REPORT

- Preparing forecast for October Adoption. ✓

SUPERINTENDENT'S REPORT

- Wind Turbine = Bid ad in today's paper.

NEXT REGULAR MEETING

7:00 p.m. October 20, 2008  
Location: Timmons Elementary School Multipurpose Room

ADJOURNMENT

At 8:37 P.M., a motion was made by Hamilton, seconded by Randall, to adjourn.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

APPROVED: October 20, 2008

*William C. Timmons*  
SIGNED President

*Janet M. New*  
ATTES: Treasurer

RECORD OF PROCEEDINGS  
MINUTES OF KENSTON BOARD OF EDUCATION  
SPECIAL Meeting

Kenston High School, Auburn-Bainbridge Room  
5:45 P.M.  
October 16, 2008

The meeting was called to order by President Timmons.  
The following members answered roll call: Joan Hamilton, Ralph Hastings, Jerry Moreno, Anna Randall, Bill Timmons.

2008-86 NEW BUSINESS

Upon the recommendation of the Superintendent, a motion was made by Hastings, seconded by Moreno, to approve the following:

REJECTION OF BIDS - WIND POWER

Reject the bids for the 2008 wind power project.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

2008-87 BIDS FOR WIND POWER

Upon the recommendation of the Superintendent, a motion was made by Hamilton, seconded by Hastings, to approve the following:

APPROVAL TO ADVERTISE FOR BIDS - WIND POWER

Approve the advertisement of bids for the 2008 wind power project.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

ADJOURNMENT

At 6:00 P.M., a motion was made by Moreno, seconded by Hastings, to adjourn.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

APPROVED: November 17, 2008

SIGNED  
President

ATTEST  
Treasurer

RECORD OF PROCEEDINGS  
MINUTES OF KENSTON BOARD OF EDUCATION  
SPECIAL Meeting

Kenston High School, Auburn-Bainbridge Room  
5:45 P.M.  
October 16, 2008

The meeting was called to order by President Timmons.  
The following members answered roll call: Joan Hamilton, Ralph Hastings, Jerry Moreno, Anna Randall, Bill Timmons.

*Timmons*

2008-86 NEW BUSINESS

Upon the recommendation of the Superintendent, a motion was made by Hastings, seconded by Moreno, to approve the following:

REJECTION OF BIDS - WIND POWER

Reject the bids for the 2008 wind power project.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

2008-87 BIDS FOR WIND POWER

Upon the recommendation of the Superintendent, a motion was made by Hamilton, seconded by Hastings, to approve the following:

APPROVAL TO ADVERTISE FOR BIDS - WIND POWER

Approve the advertisement of bids for the 2008 wind power project.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

ADJOURNMENT

At 6:00 P.M., a motion was made by Moreno, seconded by Hastings, to adjourn.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

SIGNED William C. Timmons President  
ATTEST Judith M. Allen Treasurer

APPROVED: November 17, 2008

RECORD OF PROCEEDINGS  
 Minutes of Kenston Board of Education

REGULAR MEETING

Timmons Elementary School Multi-Purpose Room November 17, 2008  
 7:05 P.M.

SUPERINTENDENT'S REPORT

- Wind Power Bid was opened Thursday, November 14<sup>th</sup>.
- Parker Hannifin - A taller tower could give us a 20-30% increase in power. Will need additional funds for a taller tower. We will explore more funding options.
- Program on Drug and Alcohol Issues was held on November 14<sup>th</sup>.
- Donations for the Stadium Fund - The committee will follow up with Auburn and Bainbridge Trustees.
- KHS auxiliary gym was a polling site for the recent election. Good process for high school students with the November election.
- New President and new State Superintendent, Dr. Deb Delisle. Discussed how the schools will be affected. Hopeful for things to get better.
- Recycling - Check with Tim Stearns about recycling at each building. Potential savings is a free dumpster per building.
- KHS Play is Friday, Saturday, Sunday "Murder at CopperSmith Inn".
- Paul O'Conner from Kenston Citizens Advisory Committee.

2008-102A

SPECIAL MEETING

Upon the recommendation of the Superintendent, a motion was made by Randall, seconded by Hastings, to approve the following:

December 15, 2008 at 6:00 P.M.

Regular Meeting at 7:00 P.M.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
 Motion carried.

2008-102B

JANUARY 2009 ORGANIZATIONAL MEETING AND REGULAR MEETING

Upon the recommendation of the Superintendent, a motion was made by Moreno, seconded by Randall, to approve the following:

January 12, 2009 at 6:30 P.M.

Regular Meeting at 7:00 P.M.

ROLL CALL: Hamilton-Yes, Hastings-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
 Motion Carried.

NEXT REGULAR MEETING:

December 15, 2008  
 6:00 P.M. Special Meeting  
 7:00 P.M. Regular Meeting  
 Location: Timmons Elementary School Multipurpose Room

RECORD OF PROCEEDINGS  
REGULAR Meeting  
Minutes of KENSTON BOARD OF EDUCATION  
7:10 P.M.  
Timmons Elementary School Multi-Purpose Room  
December 15, 2008

TES  
HP monitor, tag #2036\*\*  
NEC monitor, tag #13483\*\*  
ACC monitor, tag #11086\*\*

\*\*Not for bid

9. APPROVAL OF CALENDAR REVISION  
Approve the calendar revision to the 2009-2010 school calendar. ✓

C. FIELD SERVICE AGREEMENT - THE UNIVERSITY OF AKRON  
Approve a field service agreement with The University of Akron to provide assistance in placing University of Akron student teacher candidates in the Kenston Schools for field and student teaching experiences.

D. APPROVAL TO ADVERTISE FOR BIDS - WIND POWER  
Approve the advertisement of bids for the electrical interconnection, foundation and crane erection services for the 2008 wind power project.

E. APPROVAL OF AGREEMENT - WINDSTREAM  
Approve an agreement for communication services with Windstream Western Reserve, Inc. beginning July 1, 2009 through June 30, 2012.

F. ELIMINATION OF BUS RUN - PRIVATE SCHOOL  
Approve the elimination of the private school morning bus runs to Gilmour, Hawken and University Schools effective January 1, 2009

ROLL CALL: Hamilton-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

2008-109 APPOINT PRESIDENT PRO TEM FOR JANUARY, 2009 ORGANIZATIONAL MEETING.  
Upon the recommendation of the Superintendent, a motion was made by Hamilton, seconded by Randall, to approve the following:

Approve Bill Timmons as the Kenston Board of Education President Pro Tem for the January, 2009 Organizational Meeting.  
Hamilton-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

2008-110 APPROVAL TO APPOINT AUBURN CAREER CENTER BOARD REPRESENTATIVE  
Upon the recommendation of the Superintendent, a motion was made by Timmons, seconded by Moreno, to approve the following:

RECORD OF PROCEEDINGS  
MINUTES OF KENSTON BOARD OF EDUCATION  
REGULAR MEETING

7:10 P.M.  
Timmons Elementary School Multi-Purpose Room December 15, 2008

TREASURER'S REPORT

- Tech Garage Sale - Approximately \$600. Thanks to Tom Manning and Staff.
- Financial Report Update.

SUPERINTENDENT'S REPORT

- Garage Sale - Obsolete Equipment.
- Wind Project Update.
- School Funding - Kenston Citizen Advisory Committee member, Dennis Lehman, participated in a regional meeting with the governor last week. Concerns about the withdrawal of the Personal Property Tax reimbursement. The loss is equivalent to around 4 mills for Kennton.
- Congress bail out - might be for school construction. Happy Holiday Season.

NEXT REGULAR MEETING

ORGANIZATIONAL MEETING: 6:30 p.m. January 12, 2009  
NEXT REGULAR MEETING: 7:00 p.m. January 12, 2009

LOCATION: Timmons Elementary School Multipurpose Room

ADJOURNMENT

At 7:55 P.M., a motion was made by Timmons, seconded by Hamilton, to adjourn.

ROLL CALL: Hamilton-Yes, Moreno-Yes, Randall-Yes, Timmons-Yes  
Motion carried.

SIGNED: William C. Timmons  
President

ATTEST: [Signature]  
Treasurer

**KENSTON LOCAL SCHOOL DISTRICT**

CAFR 06-30-09

Superintendent and Treasurer are Council members and, through this Council, maintain school-business communications. The Superintendent is an elected Board of Directors member of the Chagrin Valley Chamber of Commerce. In addition, the trustees of both Auburn and Bainbridge townships are regular participants in the School District's Business Advisory Council.

In 2007, the Board of Education organized the Kenston Citizens Advisory Committee (KCAC) whose overall purpose is to serve as a conduit between the Kenston Board of Education and the Kenston community by communicating, researching and providing education on strategic matters.

The composition of KCAC is nine community members, the School District Treasurer, Superintendent and one Board of Education member. Community members serve for three years (initially, three members for one year, three for two years, and three for three years in order to create staggered terms).

While the School District is primarily residential in nature, there are several areas of commercial and industrial development. The commercial development exists primarily to serve the residents of the area. The industrial development is light manufacturing, but also has a commercial development called Marketplace at Four Corners.

In fiscal year 2008, Geauga Lake Amusement Park announced its decision to close. This amusement park has been one of our community's major individual taxpayers. The impact of the lost personal property taxes has been offset by the state reimbursement with the Commercial Activity Tax revenue. The state reimbursement of \$3,235,990 will be phased out by 2018.

The School District is a member of the Alliance for Adequate School Funding. This organization represents high property value/low state aid school districts at the state legislature level. The organization has successfully protected the financial interest of its member districts from major reductions in state support.

House Bill No. 66 (HB66), the State's biennial budget for fiscal years 2006 and 2007 was enacted in June 2005. This legislation adopted sweeping changes in the State's tax structure. The most significant provisions impacting the School District are the elimination of the Cost of Doing Business (CODB) factor portion of the State Formula Aid calculation and the elimination of the tangible personal property tax on business.

**Major Initiatives**

During the summer of 2008, our major capital project was a continuation of paving replacement/repair. These projects included the TES driveway areas, KIS/KMS parking lot and school bus parking areas.

**Future Projects**

For over two years, the School District has been seeking funding for a wind power project. To date, the School District has received a State grant for \$295,000, the Cleveland Foundation has provided \$50,000 and the Kenston Board Fund has provided \$250,000 towards this project. Also pending is a grant from the Ohio Department of Development for \$460,000. In the fall, bids were advertised for a 600 kW turbine and tower. The contract is currently being prepared for Board approval. This project is expected to be in the \$800,000 to \$1,000,000 range. A 600 kW turbine is projected to produce \$110,000 - \$130,000 in electric utility cost savings per year. The project is estimated to be completed in the spring of 2010.

Another project in the revenue development phase is the renovation of the School District's stadium. A group of citizens initiated the idea to fund a \$2.4 million renovation through private and corporate contributions. The renovation plans include an all-weather playing field, light replacement, and stadium seating replacement. The project was endorsed by the Kenston Board of Education at its July 2007 meeting. The citizen group's goal is

# Get rules in place for wind turbines

The future is now. Municipalities had better get ready for alternative energy — wind, solar, clean coal and others — because it's blowing this way.

Elected or appointed officials should watch what Willoughby City Council does in crafting an ordinance to govern wind-energy systems within city limits.

The Willoughby law — which would be the first of its kind in Lake and Geauga counties — would address the construction, operation and regulation of wind turbines in the city. The ordinance will identify the necessary permit applications, a turbine's visual appearance, noise and shadow issues, setbacks from buildings and roads, and liability insurance, among other things.

This discussion in Willoughby stemmed from a request by Willoughby Coal & Supply to construct a 195-foot turbine on its property at 3872 Erie St. The company would use wind energy to reduce the plant's energy costs, and it would sell some

Local officials had better not be left struggling to catch up.

In addition to this Willoughby business, Kenston School District in Geauga County has expressed interest in utilizing a wind turbine to reduce energy costs.

Other local governments should have their planning and zoning regulations in place before they receive a request. While unique to Northeast Ohio, Willoughby isn't charting new territory. Numerous communities in other states already have rules for wind turbines.

Anyone who's been paying attention knows that there is abundant public policy talk surrounding alternative energy. It has risen as a key element of talks focused on reshaping electric deregulation in Ohio before year's end.

Meanwhile, Gov. Ted Strickland and others are pushing wind energy as a new industry in Ohio.

The governor wants a \$1.7 billion bond issue to stimulate job growth. If approved, as part of his plan, \$250 million would be allocated for advanced renewable energy.

The primary focus in Northeast Ohio has been wind turbine farms out on Lake Erie.

The construction of this project could be a few years away, but that could be one of many similar yet smaller projects as Northeast Ohioans try to tap the strength of wind energy on Lake Erie.

No one can tell how many other businesses are considering this to improve their bottom line. Local officials had better not be left struggling to catch up.

News Herald 2-26-08

# Pressure is on

## Wind-turbine project finally gets off the ground

By SUE HOFFMAN

After a year and a half of research and fund-raising, the Kenston School District has begun construction of a wind turbine.

The school board recently signed a contract with the Renaissance Group to provide design services for the turbine at a cost of \$80,000. Last week, the company evaluated soil conditions at the construction site near the back entrance to the stadium.

School Superintendent Robert A. Lee said the 500-kilowatt wind turbine will save the school district \$80,000 to \$100,000 a year in electric costs. The project is expected to cost \$700,000 to \$800,000, and should be completed by October, he said.

So far, the district has received \$500,000 in aid, including an Ohio grant of \$300,000 through Cleveland State University, \$150,000 from the Ohio Department of Development and \$50,000 from the Lake-Geauga branch of the Cleveland Foundation. "We're still working on the funding," Dr. Lee said, and additional money might be forthcoming once the project is under way.

"There needs to be some local matching money." He said the district had budgeted some of its bond-issue funds to help with the project.

Bidding for the project is scheduled for approval at the May 19 school board meeting, with bid opening in June, Dr. Lee said. There will be separate bids for different parts of the project, including the foundation, pole and generator.

"The higher we can go up on the

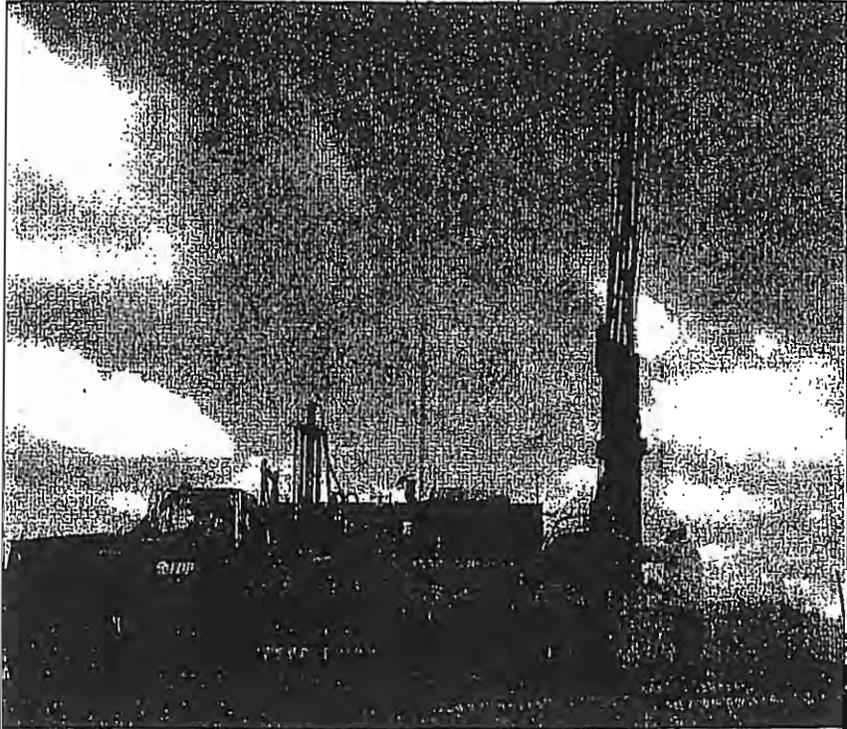


Photo by Itamar Gat

Soil testing got under way at the wind-turbine construction site near the back entrance to the football stadium at Kenston High school in Bainbridge.

...pole, the more wind we can get," Dr. Lee said. A cost-benefit analysis will determine the cost-efficiency of bringing in a special crane to give the turbine greater height, he said.

"There are so many different steps, and one of the challenges will be the delivery of the blades, which are projected to be 100 feet long," Dr. Lee said. "The wind turbine works best at a constant 15 mph wind." An adjustment of

the direction of the blades is required in winds above and below that speed, he said.

The district will be building a reconditioned turbine, rather than a new one, he said. "A brand new turbine would take one or two years to construct."

While the school district will need to go through competitive bidding, it

**Please turn to next page**

CVT 1808

## Wind turbine

has been listed as a collaborative test site for a new hydraulic system in a proposal for Parker Hannifin Corp. by LNE Group, a government relations firm. Parker Hannifin and its partners were awarded a \$1 million grant through Ohio's Third Frontier initiative to commercialize the hydrostatic-wind-turbine-drive-train system it developed. The system uses the company's hydraulic components to improve the overall energy-generating capacity and reliability of wind turbines over their service life, according to LNE Group officials.

The drive-train system "uses hydraulics in lieu of a gear box," said

Jason Smith, vice president of LNE Group. "Gear boxes are prone to failure," he said, which leads to high maintenance costs.

"Parker proposes using a hydraulic transmission as a way of connecting the rotor to the generator," according to the abstract submitted by LNE Group. "The technology eliminates the gear box and improves the productivity of the turbine over its service life."

The Kenston School District was one of two sites that completed a year-long wind-study program through Green Energy Ohio, a not-for-profit organization managing the Ohio Anemometer Loan Program. Green Energy Ohio,

which worked with the Ohio Department of Development to stimulate development of the state's wind resources, placed several anemometers on the tower for radio station WKER on top of Kenston Middle School last summer. Iten Industries, a small plastics manufacturer in Ashtabula County, was the other test site.

The Kenston School Board approved a contract in the fall of 2006 to serve as a site sponsor for a wind study. Dr. Lee then had the radio tower analyzed to assure that it would support instrumentation.

The district incurred no cost for the wind study, Dr. Lee said. Students in

From previous page

Kenston High School's Environment group helped monitor the instruments during the study.

Dr. Lee said his goal has been to make the new high school, which opened in August 2006, a green building. He said he thought of the potential for using wind power when visiting the site prior to construction. "It seemed it was windy all the time, and I thought of it every time we were on site," he said.

He contacted the Ohio Department of Development after reading about the wind-study grant program. After the department inspected the site, Kenston officials were referred to Green Energy Ohio for the study.



THE TIMES, SEPTEMBER 20, 2007 19

# Kenston, Cleveland State plan wind turbine

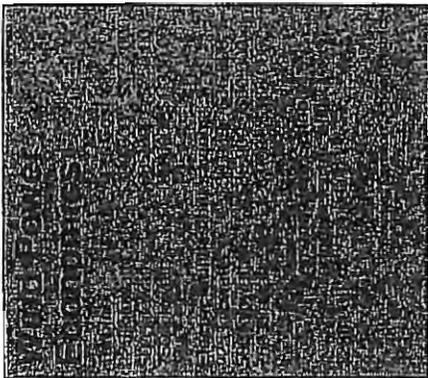
By SUE HOFFMAN

The Kenston School Board approved an agreement Monday with Cleveland State University to develop an educational partnership for a wind-turbine project.

Working with the university's technical and engineering department, the district "will assess and evaluate the wind turbine and offer reciprocal educational opportunities for our students," School Superintendent Robert A. Lee said. He called the new partnership "a great connection."

The district has received a \$300,000 grant from the Ohio Department of Development and U.S. Department of Energy to install a wind turbine on campus, Dr. Lee said. The Lake-Gesuga branch of the Cleveland Foundation has agreed to provide \$50,000 for the project, he said.

Dr. Lee said he is looking at two



other business partnerships and speaking with foundations for funds totaling \$1 million to construct a 750-kilowatt

turbine. Some of the support "may be a way to save money so that the cost is not as high," he said.

"With a \$1 million turbine, we could see savings of more than \$100,000 a year," he said. A wind turbine could be constructed by next spring or summer, he said.

The proposed site is between the football stadium and the new high school.

Green Energy Ohio, a not-for-profit organization, is managing the Ohio anemometer loan program. The Kenston School District is one of two sites that Green Energy selected in the first year of the wind-study program. The other is Iron Industries, a small plastics manufacturer in Ashland County.

The anemometer was installed by Green Energy Ohio in the radio tower at Kenston Middle School last March. Green Energy will study six different

heights to show the optimal height for the turbine, Dr. Lee said.

The district will incur no cost for the wind study, whose goal is "to make the new high school a green building," he said.

Electricity costs for the new high school are running between \$230,000 and \$250,000 a year, Dr. Lee said. "The savings would depend on the size of the turbine."

The Kenston School Board approved the wind turbine study last year.

Dr. Lee said he thought of the potential for using wind power when visiting the site prior to construction of the new high school. "It seemed it was windy all the time, and I thought of it every time we were on site," he said.

He checked with the Ohio Department of Development after reading about the wind study grants. "We applied and qualified for the wind study program," Dr. Lee said.

Monday, September 8, 2008

The Plain Dealer | Breaking news: cleveland.com

Metro | B3

# Mayor raises concern about wind turbine plan

GRANT BRGALL  
Plain Dealer Reporter

MIDDLEBERG HEIGHTS — High above the Ferris wheel, a wind turbine may someday help to power the Cuyahoga County Fair.

But a local mayor is worried about the turbine, with its 200-foot-tall tower and its blades rising another 50 feet.

"It's going to be located next to a nursing home, a hospital and highly concentrated residential areas," said Middleburg Heights

Mayor Gary Starr, who governs the part of the fairgrounds where the turbine would stand. "You have to wait and see how the public will react. You'll be able to see this 250-foot wind turbine for miles around."

The fair board has asked the city for a zoning variance, which such a tall structure would need. Starr expects the city Planning Commission to consider the variance in October.

Last month, the board raised a 164-foot-tall pole holding an instrument called an anemometer

to test the wind for a year. So far, said board President David Stephan, the wind seems strong enough to make the turbine worthwhile.

Stephan thinks the 225-kilowatt turbine may cost a little more than \$1 million but would pay off by generating most of the fairground's electricity and educating fairgoers about energy.

The board pays about \$100,000 for power annually, and the bills always seem to rise.

The fair board received

\$40,000 from Green Energy Ohio for the anemometer. Stephan hopes for similar grants to cover the turbine.

Because of widespread spy wires, the anemometer could stand only on the Berea side of the fairgrounds, in the middle of the race track.

The turbine would rise in the main parking lot off Bagley Road.

But Stephan said the winds should be similar on both sides. So far, he's heard no complaints about the device.

sion for turbines in Ashbabala. Kenston High School plans to raise one soon, and Perry High School has raised an anemometer to test the idea.

Cleveland has plenty of wind to harness: Average winds are 10.5 mph at Cleveland Hopkins International Airport, compared with 10.3 mph at O'Hare International in Chicago, according to the National Climatic Data Center.

Turbines are spreading across Greater Cleveland. They already stand at the Great Lakes Science Center and at Lake Farmpark.

A public commission is looking at raising five to 10 off Cleveland's shore.

A developer is seeking permis-

To reach this Plain Dealer reporter, please call 216-999-4187.



PHOTOGRAPHS BY CHRISTOPHER HORN | THE PLAIN DEALER

Alfredo Myers of Cleveland digs for worms among the last of the fresh produce growing in the Kentucky Community Garden in the Ohio City neighborhood of Cleveland. Myers planned to use the worms for bait. He said his garden yielded more produce this year than ever because he introduced more worms to the soil.

PD 7-2808

# Busy getting green

## Cleveland is changing its colors, not just for fall

LAURA JOHNSTON | PLAIN DEALER REPORTER

Cleveland's reputation leans more gray than green.

But we're trying. We're changing colors through dozens of programs, real estate developments, grants and ideas.

We're building new green neighborhoods and deconstructing old houses, growing food on vacant inner-city lots and considering "gasifying" our trash to create energy. We've even got a kind of fish-friendly pilot project in the Cuyahoga River's shipping channel that folks in Portland, Ore., the darling of sustainability, have never heard of.

And this month, we were rewarded, moving up 12 spots on SustainLane's annual survey to be ranked the 16th most sustainable city in America. The environmental advocacy Web site lauded Cleveland as "hitting their stride." But, of course, first-place honors went to Portland,

"I think that we really are pioneering and proving a lot of the 'sustainability concepts,'" said Lew Wetterson, Cleveland's sustainability director, who moved from Portland to Cleveland in 2002. "We're just not used to talking about what good things we're doing."

Sustainability means meeting the needs of the present without compromising the needs of future generations. The idea is broad, encompassing energy,

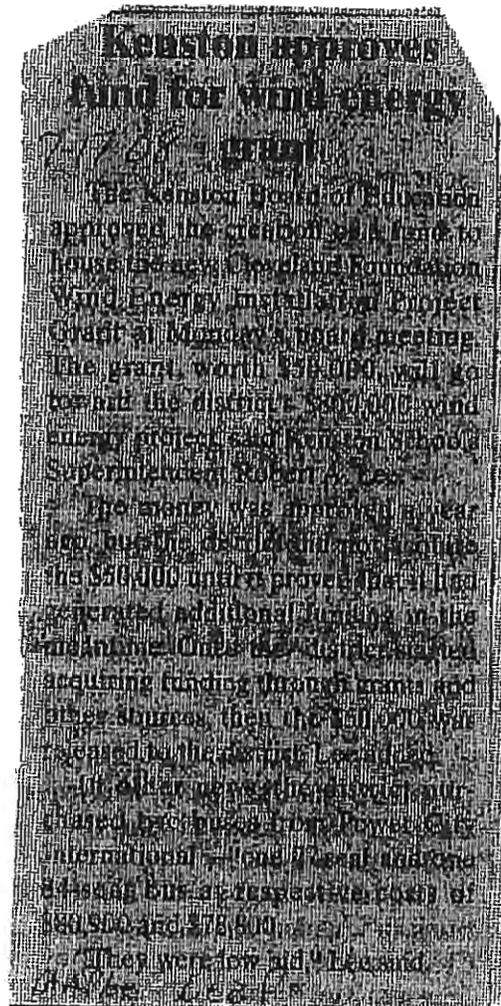
transportation, air, water, solid waste and vegetation. And here, the projects are overseen by an array of businesses, foundations and governments.

Suburbs, such as Bay Village and Shaker Heights, have created "green teams" to brainstorm sustainable ideas. Others, such as Bedford Heights, are helping businesses retrofit their facilities to save energy and money. Community development corporations are training for months with Entrepreneur for Sustainability.

Being green saves energy and money, proponents say. Plus, folks are thinking about the threat of climate change; they're ready to be more conscious of their impact on the Earth.

SEE GREEN | B3





# House OKs economic stimulus

News Herald  
1-29-09

■ President says plan will create 3 million new jobs

David Espo  
Associated Press

WASHINGTON — In a swift victory for President Barack Obama, the Democratic-controlled House approved a historically huge \$819 billion stimulus bill Wednesday night with spending increases and tax cuts at the heart of the young administration's plan to revive a badly ailing economy.

The vote was 244-188, with Republicans unanimous in opposition despite Obama's pleas for bipartisan support.

"This recovery plan will save or create more than three million new jobs over the next few years," the president said in a written statement released moments after the House voted.

Earlier, Obama declared, "We don't have a moment to spare" as congressional allies hastened to do his bidding in the face of the worst economic crisis since the Great Depression.

The vote sent the bill to the

Senate, where debate could begin as early as Monday on a companion measure already taking shape. Democratic leaders have pledged to have legislation ready for Obama's signature by mid-February.

A mere eight days after Inauguration Day, Speaker Nancy Pelosi said Tuesday's events heralded a new era. "The ship of state is difficult to turn," said the California Democrat. "But that is what we must do. That is what President Obama called us to do in his inaugural address."

With unemployment at its highest level in a quarter-century, the banking industry wobbling despite the infusion of staggering sums of bailout money and states struggling with budget crises, Democrats said the legislation was desperately needed.

"Another week that we delay is another 100,000 or more people unemployed. I don't think we want that on our consciences," said Rep. David Obey, D-Wis., chairman of the House Appropriations Committee and one of the leading architects of the legislation.

See Stimulus, Page A4

# Stimulus

From Page A1

Republicans said the bill was a tax cuts and contained too much spending, much of it wasteful and unlikely to help laid-off Americans.

Congressman Steven C. LaTourette, R-Bainbridge Township, voted against the stimulus package.

"Everyone wants President Obama to succeed and the economy to be stimulated except the Democratic leadership that wrote the bill. President Obama wants to get money out the door and create jobs, and this bill in its current form doesn't do this. With millions of Americans losing their jobs and homes, this bill is chock full of ill-timed spending during the biggest economic crisis of our lives.

"The infrastructure component could have been the biggest job-creating component of the bill, but those funds account for only about 3 percent of the bill's price tag," LaTourette said.

The party's leader, Rep. John P. ... of Ohio, said the measure creates many jobs, but it will create plenty of programs and projects through slow-moving government spending." A GOP alternative, comprised almost entirely of tax cuts, was defeated, 266-170, moments before the final vote.

On the final vote, the legislation drew the support of all but 11 Democrats while all Republicans opposed it.

The White House-backed legislation includes an estimated \$544 billion in federal spending and \$275 billion in tax cuts for individuals and businesses.

Included is money for traditional job-creating programs such

## What will area districts get?

Below are the estimated local education allocations under House Appropriations Committee Draft 2009 Stimulus Bill, the "American Recovery and Reinvestment Act of 2009," approved by the House Wednesday night.

Both years' increases are further divided into three categories by the government: boosts for districts with high percentages of low-income students under Title 1-A, special education needs under the Individuals with Disabilities Education Act grants, and major investments in school construction and rehabilitation.

School district	2009	2010
Cardinal	\$1,331,700	\$664,800
Chardon	\$504,200	\$447,900
Euclid	\$3,843,300	\$1,808,300
Kenston	\$475,300	\$408,000
Ladgamont	\$154,800	\$112,000
Mayfield	\$1,016,800	\$709,700
Newbury	\$243,200	\$163,900
Perry	\$343,900	\$269,800
Riverside	\$2,287,300	\$977,400
West Gauga	\$399,800	\$374,500
Willoughby-Eastlake	\$2,441,100	\$1,631,500

as highway construction and mass transit projects. But the measure tickets far more for unemployment benefits, health care and food stamp increases designed to aid victims of the worst economic downturn since the Great Depression of the 1930s.

Tens of billions of additional dollars would go to the states, which confront the prospect of deep budget cuts of their own.

That money marks an attempt to ease the recession's impact on schools and law enforcement. With funding for housing weatherization and other provisions, the bill also makes a down payment on Obama's campaign promise of creating jobs that can reduce the nation's dependence on foreign

oil. The centerpiece tax cut calls for a \$500 break for single workers and \$1,000 for couples, including those who don't earn enough to owe federal income taxes.

The House vote marked merely the first of several major milestones a for the legislation, which Democratic leaders have pledged to deliver to the White House for Obama's signature by mid-February.

Already a more bipartisan — and costlier — measure is taking shape in the Senate, and Obama personally pledged to House and Senate Republicans in closed-door meetings on Tuesday that he is ready to accept modifications as the legislation advances.

Rahm Emanuel, a former Illinois congressman who is Obama's chief of staff, invited nearly a dozen House Republicans to the White House late Tuesday for what one participant said was a soft sales job.

This lawmaker quoted Emanuel as telling the group that polling shows roughly 80 percent support for the legislation, and that Republicans oppose it at their political peril.

The lawmaker spoke on condition of anonymity, saying there was no agreement to speak publicly about the session.

In fact, though, many Republicans in the House are virtually immune from Democratic challenges because of the makeup of their districts and have more to fear from GOP primary challenges in 2010.

As a result, they have relatively little political incentive to break with conservative orthodoxy and support hundreds of billions in new federal spending.

Also, some Republican lawmakers have said in recent days they know they will have a second chance to support a bill when the final House-Senate compromise emerges in a few weeks.

That gave an air of predictability to the proceedings in the House, as Democrats defended the legislation as an appropriate response to the specter of double-digit unemployment in the near future.

Rep. Randy Neugebauer, R-Texas, sought to strip out all the spending from the legislation before final passage, arguing that the entire cost of the bill would merely add to soaring federal deficits. "Where are we going to get the money," he asked, but his attempt failed overwhelmingly, 302-134.

Staff Writer Jacob N. Lammers contributed to this report.

# Wheels turn for Kenston windmill

By Joan Cooper Rusek  
jrusek@sunnews.com

**BAINBRIDGE** — While most residents are coping with wind chill, Kenston Schools Superintendent Bob Lee is trying to get his experimental wind mill project off the ground.

He hopes to iron out some details in the next few weeks that will allow Kenston to award a bid.

Lee hopes to save about \$120,000 to \$125,000 a year on electricity at the high school by generating it on the school campus.

He said the school received and opened a bid, but could not proceed without additional information.

He said he could not discuss the bid nor the potential supplier at this time.

He did say that if the project goes forward, it could be partly funded through grant money and it could spawn demand for more large electric customers to install windmills.

"This could lead to job creation in Ohio," he said.

The proposed windmill would include a 185-foot tower with either a hydraulic or a gear-box drive system for the 600-kilowatt generator.

Lee said the blades will be larger than those on the windmill at Cleveland's Science Center.

Kenston's mill is anticipated to

Jan. 22, 2009  
West Geauga Sun  
generate 240,000 kilowatts of electric power a year, providing 40 to 50 percent of the what is needed to run the high school.

Lee started working on his windmill project more than two years ago. He enlisted help from the school's Envirothon Science Club that monitored wind-measuring equipment installed on the school's radio station tower.

He said Green Ohio loaned the equipment to the school for the study.

"We know one thing for sure — we have a very windy location for it on the high school campus," he said.

Contact Rusek at (216) 986-5474.

# County stimulus money requests top \$18 million

By Glen Miller and Josh Echit

Geauga County governments are requesting more than \$18 million in federal stimulus funding for projects ranging from water and sewer improvements to road paving.

As of now, applicants for 2009 funding include the Geauga County Engineer's Office, the county Department of Water Resources, the City of Chardon, Village of Burton and the Village of Middlefield.

The Village of South Russell discussed the issue at Monday's council meeting but it does not know what projects or funds would be available as of now, said Councilman Jack Binder.

See Stimulus - Page A6

*2/26/09*  
*George County Maple Leaf*

# Stimulus money requests top \$18 million

from page A1

Insurance committee (which includes Blinder and Councilman Bill Koona) will look at this issue this week," Blinder said Tuesday. "There are people in the area that claim that they know what projects are going to be funded or not. But it's too early to tell, because it's only been a week since Washington passed the bill."

The funds will be sought from \$8.2 billion in stimulus money from the American Recovery and Reinvestment Act of 2009. Public officials are eyeing an unknown amount of 2010 stimulus money, although no applications will be made until more is known about the money for 2010.

Gov. Ted Strickland's budget calls for using at least \$5 billion in federal stimulus money. About \$3 billion will be set aside for general revenue fund spending, while \$2 billion will be placed in federal accounts for Medicaid. The proposal would free up \$2 billion in state funds for other causes, according to Amanda Wurt, the governor's press secretary.

A yet unknown amount of billions of dollars is available nationally for discretionary and competitive uses. Information about those funds is still being gathered, she added.

"We know it's confusing. We're trying to get things resolved," Wurt said.

County's largest 2009 stimulus request is \$16 million, submitted by the County Department of Water Resources to the Ohio Environmental Protection Agency. About \$5.5 million of the water and sewer projects are "shovel ready," a term coined by congressmen for projects that can be started within 180 days and immediately create jobs.

Those that cannot be started within six months may not be funded, which angers Water Resources Director Gus Saikaly.

Small public agencies and counties like Geauga do not have the money to do the prerequisite planning, engineering and design work necessary to get projects "shovel ready." Public agencies in large cities and counties, such as Cleveland and Cuyahoga County, have their own engineering and planning staffs, he said.

Therefore, they have a huge advantage over small counties and cities that must go through a lengthy bidding process to hire consultants with the same expertise, Saikaly added.

"It is unrealistic to expect small governments to go out and spend

"You can't be saying use it or lose it. Small cities like us don't have a whole bunch of projects ready to go."

-Chardon Assistant City Manager Randy Sharpe

money they don't have to begin with to get projects ready to they can get the money to build them," Saikaly said. "The people running this stimulus program didn't factor this into their thinking."

Moreover, the Ohio EPA must approve each of the 14 water and sewer projects submitted for possible stimulus money funding, a process usually requiring lengthy review.

The agency has approved about \$500,000 million in improvements to a small wastewater treatment plant in Hambleton Township and a \$3 million upgrade of a sanitary sewer system and a pump station in Auburn Township.

A few other projects totaling \$2 million can be made ready within 180 days, he added.

"The point is, we could have many more ready to go before the end of the year, but right now I don't see that happening," Saikaly said.

Stimulus money will be available in 2010, although the amount and the rules for obtaining it remain unclear, he added.

Chardon's stimulus project submissions total about \$2.6 million. Assistant City Manager Randy Sharpe submitted the city's requests. He agreed with Saikaly's assessment of the situation.

"You can't be saying use it or lose it. Small cities like us don't have a whole bunch of projects ready to go," Sharpe said. "We're limited in our scope. We have to be realistic with what we are planning on doing. It's got to be done right. We do not have the money to throw around."

Chardon's biggest proposed stimulus projects are:

- Completion of the delayed Wilson Mills Road sanitary sewer project, \$532,500.

- Repaving of Wilson Mills Road, \$458,900.

- Improving the intersection of Wilson Mills Road and Park Avenue, about \$1.6 million.

- Repaving 10 city streets, a total of more than \$1 million. The cost of the individual repaving projects range from \$10,100 for Chardon Windsor Road to \$260,600 for Washington Street between Center Street and 5th Avenue.

The county hopes to get more than \$3.1 million in stimulus funds to repave seven county roads this year, but an asphalt plant and pavement marking "it could spend other \$2 million on more than three costly road resurfacing projects depending on how stimulus funding is made available in 2010," according to County Engineer Robert Phillips.

Most projects are ready to be built because planning and engineering work was done months before the stimulus package was hammered out by Congress and signed by President Barack Obama. Many are

Berkshire	\$113,000	\$372,000	\$485,000
Cardinal	\$363,000	\$728,000	\$1,090,000
Chardon	0	\$715,000	\$715,000
Konston	0	\$632,000	\$632,000
Ledgesmont	\$33,000	\$150,000	\$183,000
Newbury	\$56,000	\$213,000	\$269,000
West Geauga	0	\$598,000	\$598,000
<b>Total</b>	<b>\$565,000</b>	<b>\$3,578,000</b>	<b>\$4,153,000</b>

Gauga County Engineer's Office	\$3.1 million
County Dept. of Water Resources	\$6.0 million
City of Chardon	\$2.6 million
Village of Middlefield	\$2.5 million
Village of Burton	\$100,000
Village of South Russell	Pending
Village of Aquilla	Pending
All Geauga County Townships	Pending
<b>Total (incl. SD totals of \$3,992m)</b>	<b>\$13.8 million</b>

Estimated stimulus funding for Geauga County school districts

set to receive 80 percent federal funding, even if officials who oversee stimulus funding for Ohio reject them.

If they are approved, the county will save \$620,000 because it will not have to pay its 20 percent share of the projects, Phillips said.

"That's a sizable savings that we could use for other projects, if we opt to go that route," he added.

The cost of the 2009 resurfacing projects range from \$300,000 for Hemlock Road between Main Street and the Village of Chagrin Falls to \$540,000 for re-paving a portion of Wilson Mills Road between Route 316 and the county line.

The cost of the 2010 projects ranges from \$500,000 for the resurfacing of Auburn Road from Mayfield Road to Wilson Mills to \$800,000 for the repaving of Wilson Mills from Fairmount to Mayfield Road.

Burton Village Fiscal Officer Chris Paquette said the village will seek funding from the Ohio EPA for the estimated \$6 million to \$7 million needed for the construction of a new wastewater treatment plant in the village. The funding will be for 2010 stimulus funds, he said.

The village has applied for at least \$100,000 in 2009 funding to repave North Chesire Street and lay new sewer lines along it, a \$300,000 project.

Middlefield Village Administrator Dan Weir said the village has applied for \$2.5 million in stimulus money for the renovation of a water and sewer pump station near the intersection of routes 608 and 87.

Several township fiscal officers said they would like money to pave township roads. Others said their trustees have not yet discussed applying for stimulus funds.

Munson Township Trustee Todd Ray, president of the countywide Trustee and Clerks Association, said township officials recently received a lengthy e-mail from the office of U.S. Rep. Steward L. Latta, R-Rainbridge Township, outlining the various categories under which applications for stimulus money can be made.

"It's rather lengthy, so it's going to take time to go through it and see if there's any category that fits projects a township may have or want to do," Ray said. "I don't think we (Munson Township) or most others have something ready."

The stimulus funding categories to which township governments may apply for money include infrastructure (roads and bridges) and crime and public safety (emergency services), according to the governor's office.

Chardon Schools Superintendent Joe Bergant said county school officials are confused about how education will benefit from the stimulus bill because of conflicting reports from state sources. Chardon schools are supposed to get \$110,000, according to an e-mail Bergant received from the Ohio Department of Education (ODE).

"But we've also heard, legislatively, they may be pulling the education money back out," he said. "I don't know what to think, I'm not counting it. Let's put it that way."

The status of \$130 billion in federal money earmarked for education remains unclear because of the conflicting reports about how it is to be used. If and when money is available, it will be used to enhance various school security systems, including an upgrade of fire alarms, he said.

ODE spokesman Scott Blake said the agency has not determined how stimulus money will be doled out to each school district in the state, although the U.S. House of Representatives has devised a chart showing "estimates" for each school district in every state.

"There are a lot of unanswered questions," Blake said.

The chart includes funding for Title I-A and IDEA, special funding for special education programs.

Chardon School District Treasurer Stephanie Swain said the estimate school funding is confusing.

"This appears to have been done hastily. We certainly didn't have any input, but at this point, I guess doing something is better than nothing," she said.

## Is there a wind farm in your future?

*State Bill -  
Kenyon is 20  
mentioned!*

by *Damon Asbury*  
director of legislative services

Leaders at all levels of government, including President **Barack Obama**, Gov. **Ted Strickland** and members of the Ohio General Assembly, have repeatedly called for us to "go green" and embrace renewable energy sources for our homes, businesses and communities. The promise of clean, affordable energy, coupled with the potential to spawn new industries and create new jobs, has been a driving force behind these efforts. Schools and school districts have been frequently targeted as the likely beneficiaries from such initiatives.

In Ohio, the General Assembly laid the groundwork in Senate Bill (SB) 221, which required the increased use of advanced and renewable energy technology in the generation of electricity in the state. The bill requires that at least 12.5% of the state's energy supply come from renewable sources by 2025. Among the renewable energy sources identified by the legislation are solar, wind power and wind turbines, geothermal and biomass byproducts.

During the current biennium, several bills have been introduced that seek to encourage even greater use of renewable energy sources. Among these is House Bill (HB) 113, sponsored by **Mike Foley** (D-Cleveland) and **Lou Blessing** (R-Cincinnati), which would establish a two-tiered pilot project for school districts with an average daily membership of 5,000 or greater. Districts with 5,000 to 10,000 students would be required to issue requests for proposals (RFPs) to install renewable energy systems capable of generating 250 kilowatts, while larger districts would be required to issue RFPs for projects that could generate up to 500 kilowatts. Under the bill provisions, districts would not be obligated to go forward with the actual installation if

they were not convinced that they would gain economic benefits over the cost of energy purchased through traditional sources.

Initially, HB 113 was intended to deal only with solar energy, with an eye toward jump-starting the solar industry in Ohio. However, the legislation was subsequently amended and expanded to include wind energy systems and geothermal sources. The original bill also would have required *all* school districts to participate and to generate up to 25% of their electricity through solar means. Efforts of OSBA, Ohio Association of School Business Officials and Buckeye Association of School Administrators lobbying were successful in modifying the requirement to only issue an RFP and to limit the requirement to as few school districts as possible. The bill is currently before the Senate Energy and Public Utilities Committee.

A related bill, HB 218, sponsored by **Roland Winburn** (D-Dayton), seeks to reduce the tax valuation of any public utility tangible personal property (TPP) used to generate electricity from renewable resources. The sponsor hopes the measure will be a boon to attract investment in renewable energy development in Ohio.

Wind energy investors have indicated that the public utility tangible personal property tax rate places Ohio at a competitive disadvantage when compared to surrounding states. In order to level the playing field, HB 218 would reduce the tax rate on wind and solar generation machinery and equipment from the current 24% to 12%.

However, following Strickland's State of the State call to phase out the tax on

wind and solar facilities to make Ohio more competitive for renewable energy jobs, House Democrats are redrafting the bill so as to eliminate the tangible personal property tax on new wind and solar generation equipment. Taxes on transmission and distribution would remain the same.

Meanwhile, the Senate Republicans have introduced SB 232, sponsored by **Chris Widener** (R-Springfield), as an alternative way to encourage the process. Under Widener's proposal, instead of eliminating the tangible personal property tax, renewable energy companies would instead apply to the Ohio Air Quality Development Authority for an exemption from the tax, and pay an annual fee of \$6,000 per megawatt of installed capacity for the life of the facility.

Widener noted that his bill would yield similar results, but would permit local governments and school districts to receive a continued revenue stream, albeit lower than current rates would provide. Some districts currently anticipating major wind or solar projects have expressed support for exempting the facilities from the TPP tax because they expect the installations to create local jobs and bolster the local economy.

Both sides of the aisle agree that fast action is necessary to beat federal stimulus funding deadlines. Both measures call for the facilities to be operational by 2012 and both would require companies to commit to create jobs in Ohio. Based on the level of current legislative and executive office interest in stimulating green energy systems, it is likely that many of the features of HB 113, HB 218 and SB



*Damon Asbury*

232 will soon become law.

A number of school districts have already received federal stimulus funds to add wind and solar power generating technologies at their facilities, including wind turbine funds to **Archbold Area Local (Fulton)**, **Kenston Local (Geauga)** and **Pettisville Local (Fulton)**. **Parkway Local (Mercer)** was awarded funds to support a solar thermal project. **Ashtabula Area City Schools** recently authorized staff to prepare and submit to the Ohio School Facilities Commission an application to erect a 750-kilowatt wind-turbine generator.

Once the legislation becomes enacted, districts can expect to be approached by renewable energy companies to purchase or install equipment, or to bless similar initiatives in the local community. District staff should be prepared to carefully consider all aspects of such proposals to make sure that the projects are economically feasible and beneficial to their communities. □

*Executive outlook, continued from page 3*

**"Restoring Prosperity"**

The National Rural Education Association (NREA), the oldest established national organization of its kind in the United States, conducted a thorough study of school consolidation history and research. The study found that there is no "ideal" size for schools or districts. The larger a district becomes, the more resources are devoted to secondary or non-essential activities.

Further, the NREA study maintained that there is no solid foundation for the belief that eliminating school districts will improve education, enhance cost-effectiveness or promote equality. Consequently, there should not be "forced" consolidation.

In some situations, consolidation may make absolute sense. In others, it may be inevitable. However, school

boards and communities must be able to examine all possible variables and make well-informed decisions based on all available data, rather than be subjected to a mandate that "one size is best for all."

School district consolidation is not a new concept in Ohio. In 1915, there were 2,674 school districts in the state. By 1935, the number of school districts fell to 1,986. By 1959 the number was down to 984. Today, as the report notes, there are 613 Ohio public school districts, excluding educational service centers and joint vocational districts.

Ohio schools have always had the option to consolidate or merge. This is a matter that is best determined at the local level, where districts can look in depth at the implications of fiscal, educational, and community advantages and disadvantages. □

# Pepple & Waggoner

ATTORNEYS AT LAW

Empowering Ohio's Boards of Education with Effective Legal Counsel to Make Quality Choices for Children



An Outcome-Driven Philosophy

"Something Good is Happening in Our Schools"  
submitted by: Dr. Robert A. Lee, Superintendent  
Kenston Local Schools

Kenston Bombers are going green! No, we are not changing the Kenston mascot or the school colors, we are becoming more environmentally conscious. We are using Bio-diesel to fuel our buses, recycling programs are implemented at the high school and middle school and a wind turbine to generate electricity for the high school is planned for installation in 2008.

During site development for the high school, we discovered that the location on the top of a hill to the south of our stadium consistently had stronger winds than the surrounding area. It was at this time in 2005 that Kenston began to explore wind power. Through the Ohio Department of Development, a grant was secured for a wind study. After further study by Aaron Godwin of The Renaissance Group, this site was found to be a micro wind site that experiences more wind than typical areas in our portion of the state.

In the fall of 2006, Kenston Schools were competitively selected to participate as one of only two sites for the "Monitoring Ohio Wind," anemometer loan program managed by Green Energy Ohio. According to Program Coordinator, Steven Watts, Kenston is the first school district in the state of Ohio to participate in the program and the first in the state, known to consider a project of this scale. The program's instrumentation has been installed on our existing campus radio station tower located on top of Kenston Middle School. Information gathered was used to confirm the Ohio Wind Map and support the data originally provided by the Renaissance Group.

In January 2007, Kenston was notified by State Representative Matthew Dolan that Kenston received funding through House Bill 699. The funding amounted to \$300,000. The Lake-Geauga branch of the Cleveland Foundation has agreed to provide \$50,000 for the project. Currently the district is looking at other business partnerships and is speaking with foundations to reach a goal of \$1million to fund the construction of a 750 kilowatt turbine.

With a \$1 million turbine, we could see savings of more that \$100,000 a year. Electricity costs for the new high school are running between \$230,000 and \$250,000 per year.

With the wind turbine Kenston plans to save money and while educating students. The high school Science department has incorporated the wind study into our classes and the student Envirothon Club. An educational partnership with Cleveland State University, will allow our students the opportunity to work with the technical and engineering department to assess and evaluate the wind turbine.

Wind power as a renewable source of energy is an excellent alternative for schools. Renewable energy sources are the wave of the future. Kenston has the site and the electrical power need to put a highly visible and effective wind power project in place.

## Notice of Availability for Draft EA List Kenston Schools

---

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Auburn Township Board of Trustees  
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Notice of Availability for Draft EA List Kenston Schools

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Tribal Chairman and all Council/Government Operations  
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Notice of Availability for Draft EA List Kenston Schools

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Honorable Roger Hill, Chief

[Tonawanda Seneca Nation](#)

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## NOTICE OF AVAILABILITY

The U.S. Department of Energy (DOE) is proposing to provide American Reinvestment and Recovery Act federal funding to the State of Ohio for the purchase and installation of a single 750 kW wind turbine:

**Kilowatts for Kenston Wind Energy Project  
Kenston High School 9500 Bainbridge Road,  
Chagrin Falls, Geauga County, Ohio  
DOE EA 1819D**

DOE's Golden Field Office is preparing an Environmental Assessment (EA) in accordance with the National Environmental Policy Act (NEPA). Interested persons are invited to submit written comments on the draft EA for consideration by DOE by **January 13, 2011**. All comments received will be considered in preparation of the final EA. DOE encourages your participation in this process. The draft EA is available for review on the following websites:

**[http://www.eere.energy.gov/golden/Reading\\_Room.aspx](http://www.eere.energy.gov/golden/Reading_Room.aspx).**

**[http://nepa.energy.gov/draft\\_environmental\\_assessments.htm](http://nepa.energy.gov/draft_environmental_assessments.htm)**

You can submit comments by either mail or email. Please mail comments to the **Golden Field Office**, c/o Melissa Rossiter, 1617 Cole Boulevard, Golden, CO 80401, or send them by email to [Melissa.Rossiter@go.doe.gov](mailto:Melissa.Rossiter@go.doe.gov).

For  
IEC Class III  
Wind Sites

# AERONAUTICA

## 54-750



### When Megawatt-Class Turbines Are Just Too Big

These workhorses provide plenty of power for schools, industrial parks, shopping centers, neighborhood net-metering, Green Communities, wind parks and more!

- ◆ 3/4 Megawatt (750kW) design - for Class III winds
- ◆ Low profile: less than 270' tall on a 55m tower
- ◆ Active Stall Regulation (ASR) allows blades to be optimized for both low and high wind conditions
- ◆ Dual-wound 200/750 kW Generator

Located in an IEC Class III wind area? *Aeronautica Windpower* is proud to introduce the 54-750: a Queen-size machine designed with a larger rotor for 'distributed wind' applications at lower wind sites. Many good wind sites just cannot accommodate huge, utility-scale turbines. A large number of sites, especially populated areas, are better suited to a smaller size machine. The 54-750 is the perfect fit.

More easily permitted, erected, and financed than its larger brothers, the 54-750 is a great choice for municipal projects, commercial/industrial sites, college or high school campuses, and other places where 'behind the meter', or net-metered power can be utilized.

With its low profile, ultra-low noise signature, and highly efficient output, the 54-750 provides the perfect balance between economic output and acceptable size. And *Aeronautica* wind turbines are *all manufactured in the United States*, reducing shipping costs and delivery times.

#### Fast Facts:

Orientation: <i>Upwind</i>	Rotor Diameter: <i>54m</i>
Rotor Speed: <i>~25.3RPM</i>	Active-Stall Regulated
Hub Height: <i>65 or 55m</i>	Blades: <i>Fiber Reinforced Polyester</i>

**Made in  
America**

*American Energy from America's Hometown*

AERONAUTICA  
Windpower



Plymouth, MA 1-800-360-0132 [www.AeronauticaWind.com](http://www.AeronauticaWind.com)

Attachment 3, Appendix E Page 1 of 2

**54-750 kW System Specifications:**

**Blades**

3 blades, upwind orientation  
Fiberglass reinforced polyester

**Rotor**

Power regulation: Active Stall Regulation (ASR).  
Rotor size: 54m diameter (177') (std—other configs. avail.)  
Rotor speed: 25.3 rpm nominal  
Swept area: 2,289 m<sup>2</sup>  
Tilt angle: 4°  
Coning angle: 3.0° forward.

Tip speed: 62 – 63 m/s at full load.  
Pitch angle: Active Stall Regulation  
Pitch bearings: 4-point ball bearings.  
Air brake, normal: Pitch to -20°, actuated by the Active Stall Regulation system.  
Air brake, emergency: Pitch to -85° fail safe, actuated by accumulators in hub.

Nominal pitch speed: 7.5 °/sec  
Mechanical brake: A fail-safe type disk brake.  
Brake torque: 1.8 times of nominal torque (approx).  
RPM max. value: 1920 (60 Hz), 1600 (50 Hz), on the high-speed shaft.

**Generator**

Nom. Electric Power: 200/750 kW (dual wound)  
Generator: Closed, Synchronous induction, 4/6 pole DW, IP54 or 55.  
Generator speed: 1200/1800 (60 Hz) or 1000/1500 (50 Hz) rpm synchronous  
Loss in generator: 3 - 4 % at nominal power dependent on type  
Generator cut-in: Thyristor controlled gradual cut-in  
Grid connection: 60 Hz – 690V or 50 Hz – 690V

**Operational:**

Yaw motors: 4 pcs. w/electrical brakes built in  
Yaw brakes: 4 pcs. disk hydraulic brakes  
Yaw bearing: 4-point ball bearing  
Cut-in wind speed: 3-4 m/s, based on 10 min average  
Cut-out wind speed: 25 m/s, based on 2 min average  
Controller: CC—Electronic (Mitsubishi PLC)  
Noise: 100 dBA Sound Power (at Nacelle)

**Monopole Tower**

Conical Steel, White, 65m and 50m towers available  
Nacelle access: interior tower ladder through locked door

**Weights:**

Mass of blades: ( 3 ): Approx. 16,000 lbs ( 7,200 kg)  
Mass of nacelle: Approx. 48,400 lbs (22,000 kg)  
Mass of hub: Approx. 17,600 lbs ( 8,000 kg)  
Mass total, excl tower: Approx. 81,200 lbs (36,909 kg)

**Certification:** Variant of our 47-750 turbine, which is design Certified by DNV for IEC 61400 Ed. 3 Class IB and IIA

**Safety Issues**

Induction generator has inherent anti-islanding  
Fail-safe hydraulic disk brake  
Grid monitoring for shutdown and operational performance

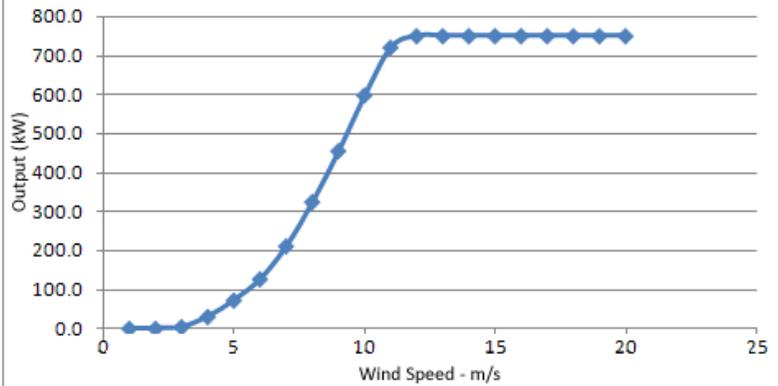
**Shipping:** All Prices are FOB our plant

**Warranty:** Standard warranty is for two years on the drive train and on all major parts. Extended warranties are available.

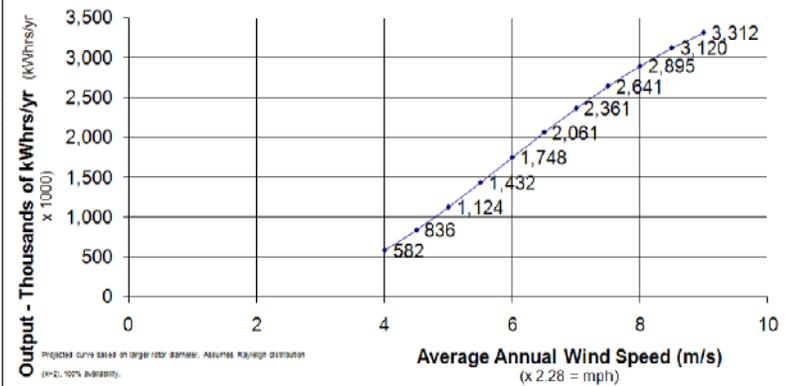
**Installation:** Aeronautica Windpower, LLC is only a supplier of equipment. We can, however, refer you to local installers or dealers for a complete installation.

**Service Agreements:** Annual Service Contracts are strongly advised and are available from local dealers and installers.

**Estimated Power Output - 54-750**



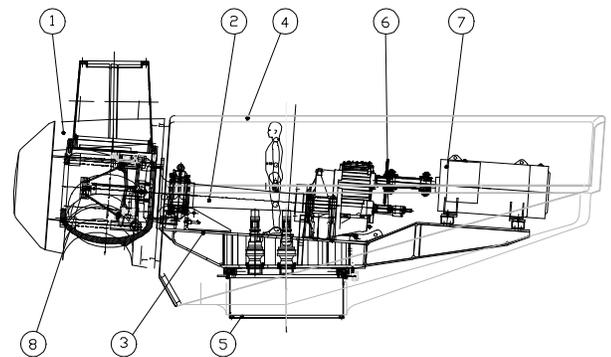
**54-750 Projected Energy Graph**



The Power and Energy Curves shown are estimated for a 750kW turbine, with a 54m rotor, double wound generator, and Active Stall Regulation. The power curve is valid for 1.225kg/m<sup>3</sup> air density, clean blades and undisturbed horizontal air flow. For the Energy Graph, a Rayleigh wind speed distribution and 100% availability is assumed.

**Power Curve Table**

m/s	kW
1	0.0
2	0.0
3	4.0
4	30.4
5	72.6
6	126.7
7	211.2
8	324.7
9	455.4
10	598.0
11	720.7
12	750.0
13	750.0
14	750.0
15	750.0
16	750.0
17	750.0
18	750.0
19	750.0
20	750.0



- 1. Rotor System 2. Transmission 3. Yaw System and Mainframe
- 4. Nacelle Cover 5. Tower 6. Hydraulic Station (not shown) 7. Generator 8. Pitch system



## Technical note

## NOISE EMISSION FROM NORWIN-47-ASR-600 / 750 kW

### Summary:

The noise emission at the reference wind speed 8 m/s, 10 m above ground, expressed as the A-weighted sound level in dB re. 1 pW, ( $L_{WA,ref}$ ), is 100.00 dB. The relation between the noise emission and the wind speed is +0.3 dB pr. m/s.

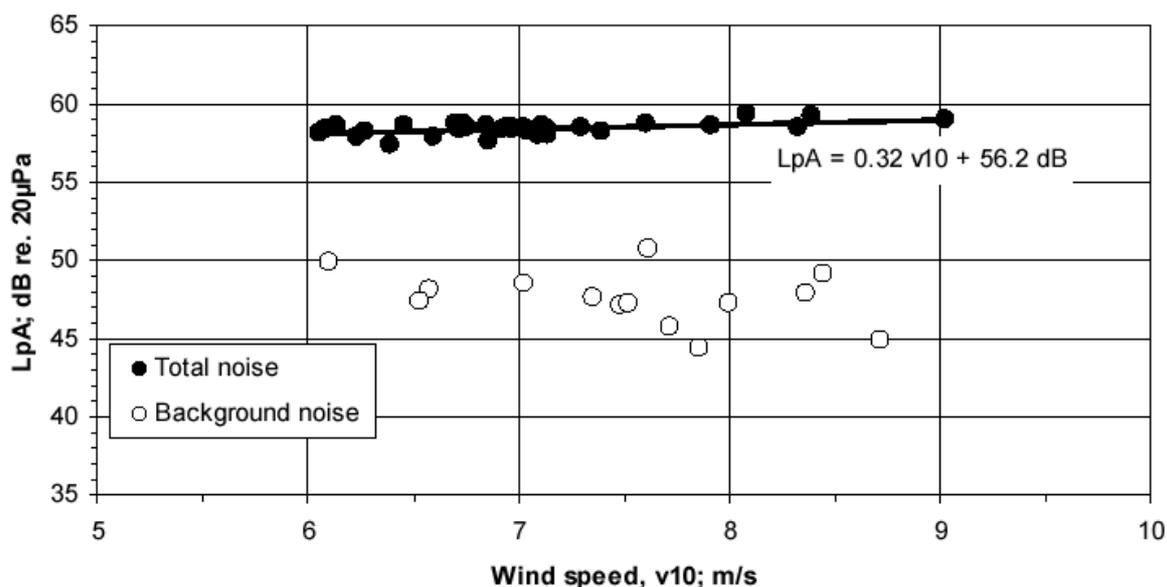
### Measuring setup and method:

The noise emission is measured in compliance to the guidelines given in regulation no. 304/1991, *Bekendtgørelse om støj fra vindmøller*, published by the Danish Environmental Agency. The noise is measured with a microphone placed on the ground (acoustically reflecting plate 1.5 x 2.0 m<sup>2</sup>), 50 m down-wind from the turbine. The noise is measured with and without the wind turbine operating, to establish the signal to noise relation.

The wind speed is measured with a cup-anemometer placed 10 m above ground, 50 m up-wind from the turbine.

### Noise emission curves:

Figure 1.: A-weighted sound pressure level on the ground 50 m down-wind from the turbine.



There are no clearly audible tones present in the noise.

Figure 2.: The A-weighted sound pressure level,  $L_{pA}$  in dB re 20  $\mu\text{Pa}$ , 1.5 m above ground, calculated as function of the distance from the wind turbine, according to DEA regulation no. 304/1991

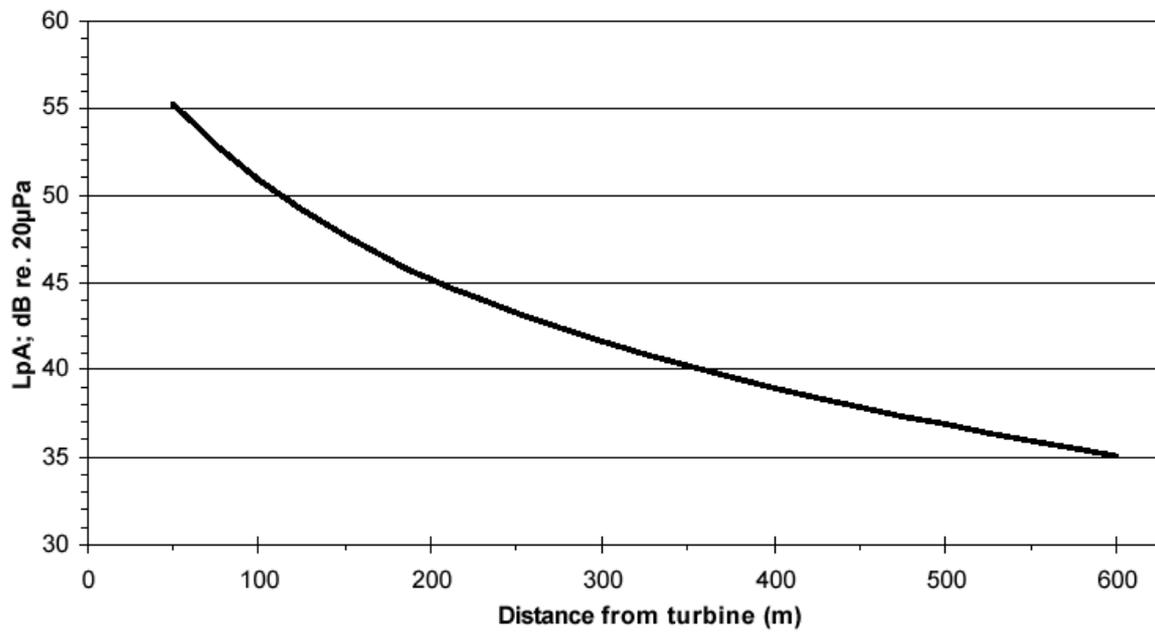


Figure 3.: From calculations the following key values have been extracted:

$L_{pA}$ ; dB re 20 $\mu\text{Pa}$	Distance, m
35	607
40	359
45	206

**SUBSURFACE EXPLORATION  
KENSTON LOCAL SCHOOLS  
WIND TURBINE  
CHAGRIN FALLS, OHIO  
EDP PROJECT No.: 10263G  
SEPTEMBER 28, 2010**

Prepared at the request of:

**Mr. John Camiscioni  
Kenston Local School District  
17419 Snyder Road  
Chagrin Falls, Ohio 44023  
Phone: 440-543-9677  
Cell: 440-622-5007**

 **EDP Consultants, Inc.**  
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Kirtland, Ohio 44094-8501  
Phone: 440-256-6500  
Fax: 440-256-6507  
[www.edpconsultants.com](http://www.edpconsultants.com)**

---



September 28, 2010

Mr. John Camiscioni  
Director of Facilities  
Kenston Local School District  
17419 Snyder Road  
Chagrin Falls, Ohio 44023

Re: Kenston Schools Wind Turbine  
Chagrin Falls, Ohio  
EDP Project No. 10263G

Dear Mr. Camiscioni:

We have completed the subsurface exploration for a wind turbine foundation proposed at the Kenston Local Schools Chagrin Falls campus. This letter summarizes the results of our field exploration and laboratory testing, and provides parameters for design of the structure's foundation.

#### **FIELD AND LABORATORY TESTING**

Subsurface conditions were studied by an exploration program consisting of one Standard Penetration Test boring in the area of the wind turbine. The boring location was marked in the field by EDP personnel, and its ground surface elevation was measured by differential leveling with reference to the top of a catch basin west of the visitor stands, with a given elevation of 1258.50 ft. The approximate test location and the measured ground surface elevation are shown on the enclosed *Boring Location Plan*.

B-1 was drilled and sampled in general accordance with ASTM Standards to a nominal depth of 22 ft, where auger refusal was encountered. Sampling consisted of driving a two inch O.D. split-barrel sampler at selected intervals. The number of blows of a 140 pound hammer dropping 30 inches was recorded for each six inch penetration interval at each sample location. When sampling in rock, where a penetration of less than six inches was obtained for 50 hammer blows, we recorded the actual blow count and depth of penetration in inches for that interval. The standard penetration number (N) can be obtained from the log data by summing the number of blows required for driving through the second and third six inch intervals.

The borehole was checked for the presence of groundwater during drilling, at the completion of the boring, and before backfilling. The borehole was backfilled with soil and rock cuttings at the completion of field testing.

Three inch O.D. thin-wall Shelby tube samples were hydraulically pressed at the depths indicated as "ST" on the boring log.

*Geotechnical • Geoenvironmental • Construction Materials Consultants*

Kenston Local Schools Wind Turbine  
September 28, 2010  
Page 2 of 3

Samples were taken to our laboratory where they were examined and classified by a geotechnical engineer. Soil samples were classified in general accordance with ASTM Standards. Bedrock samples were classified following the guidelines in ASCE Manual 56, "Subsurface Investigation for Design and Construction of Foundations of Buildings," dated 1976. Our rock classifications are based on judgment using split-barrel samples. Split-barrel samples of relatively cohesive soils were tested for their water contents to provide indications of material consistency, strength, and compressibility. The results of these tests are presented on the enclosed boring log.

### ***SUBSURFACE PROFILE***

The area was grass-covered at the time of our field testing. Four inches of topsoil was present. Below the topsoil, brown, lean clay fill was encountered extending about 4½ ft below grade. The fill was underlain by medium stiff, gray, lean clay with organics extending about 8 ft below grade.

Below the fill and organic materials, stiff, brown, lean clay with sand layers and sandstone was encountered, extending to about 12½ ft below grade. The clay was underlain by very stiff to hard, brown and dark gray, sandy lean clay of residual origin, resulting from the weathering of its parent shale bedrock.

The residual clay was underlain by very soft, gray with brown, shale, beginning at a depth of about 13½ ft below grade. At 16 ft, very soft, brown and gray, sandstone was encountered. Layers of sandy lean clay were encountered in this very soft sandstone. B-1 was advanced through the softer shale and sandstone to encounter moderately hard, gray, sandstone at about 19 ft below grade.

Groundwater was not encountered during our exploration. Based upon the limited data that is available, it appears that the groundwater table is within the gray sandstone. Seepage will likely be encountered in more granular seams higher in the profile.

### ***FOUNDATION DESIGN PARAMETERS***

Considering the variability of the upper level soils at the currently proposed location, the wind turbine should be supported using a drilled pier foundation. Lateral subgrade modulus values for the suitable soil layers and the upper shale and sandstone, and the estimated unconfined compressive strength of the sandstone bedrock for use in the design of the drilled pier foundation are given in Table 1. These are all ultimate values. The term "D" in the expression for the subgrade modulus is the pier diameter in feet. The resulting units on  $K_b$  will be pounds per cubic inch (pci). Lateral resistance should be neglected for the upper 8 ft, through the fill and clay with organics.

Kenston Local Schools Wind Turbine  
 September 28, 2010  
 Page 3 of 3

Table 1. Recommended ultimate lateral subgrade modulus and compressive strength values for soil layers and shale and sandstone bedrock.

Soil Layer and approx. depth	Lateral Subgrade Modulus, $K_h$	$\epsilon_{50}$ (%)
Fill and clay with organics (0 to 8 ft)	---	---
Stiff to very stiff lean clay (8 to 13½ ft)	200/D pci, (using D in feet)	3
Very soft shale and sandstone (13½ to 19 ft)	2000/D pci, (using D in feet)	1
Sandstone (>19 ft)	Compressive strength 5,000 psi	N/A

We appreciate the opportunity to work with you on this project. If you have any questions relative to our findings, or if we can be of further assistance, please call.

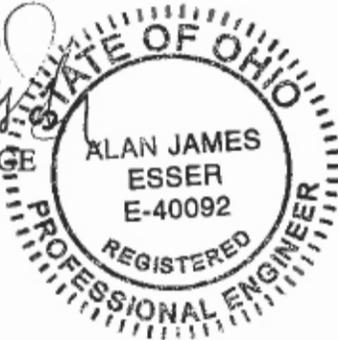
Very truly yours,

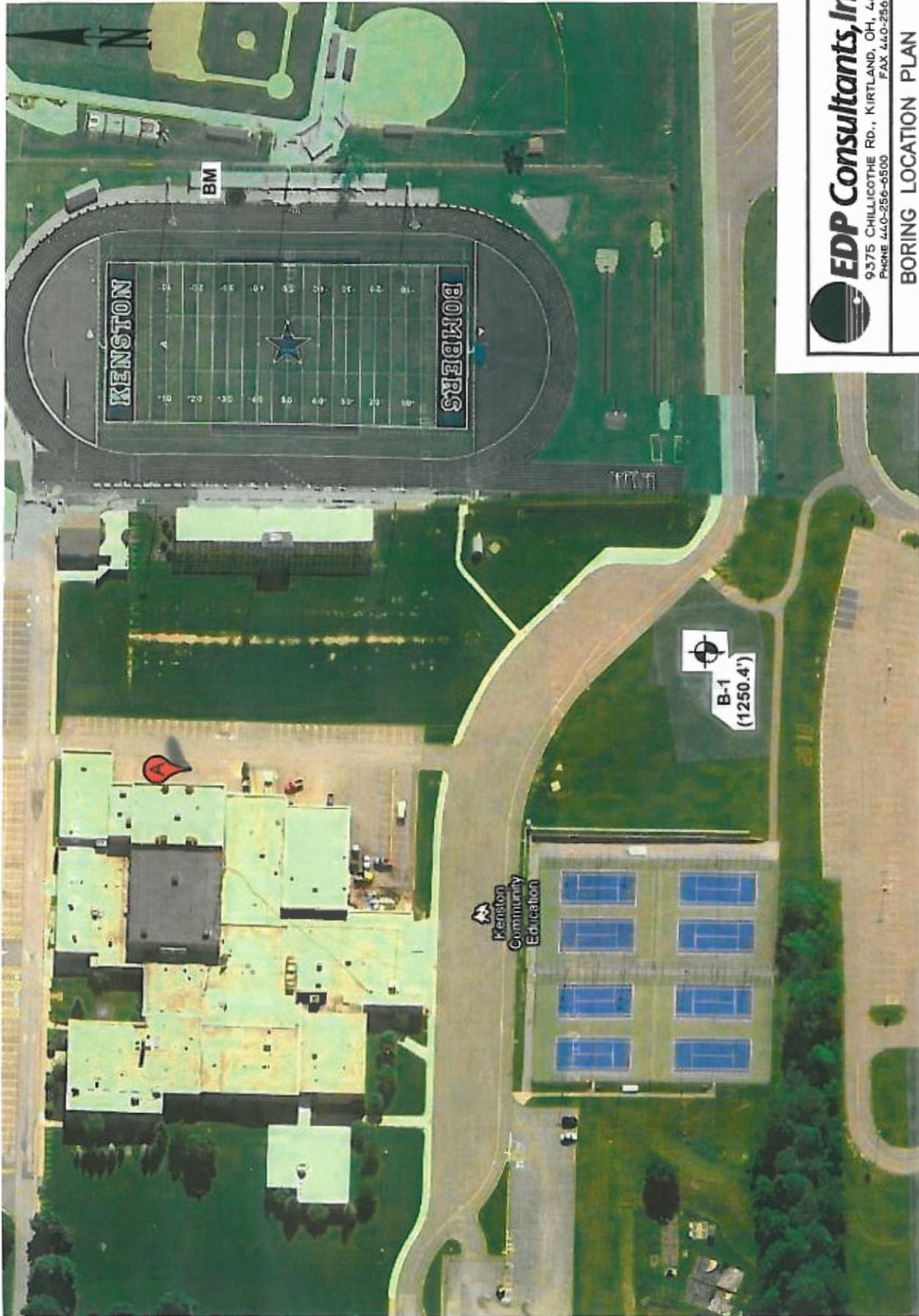
EDP CONSULTANTS, INC.

*Dagny Nycz*  
(cp)

Dagny A. Nycz, P.E.  
 Project Engineer

*Alan J. Esser*  
 Alan J. Esser, P.E., D.GE  
 Reviewing Engineer





NOTE:  
 BENCHMARK (BM) IS TOP OF CATCH BASIN  
 WITH GIVEN ELEVATION 1258.50 FT.

NOT TO SCALE

**EDP Consultants, Inc.**  
 9375 CHILICOTHE RD., KIRTLAND, OH, 44094  
 PHONE 440-256-0500 FAX 440-256-6507

**BORING LOCATION PLAN**  
**KENSTON SCHOOLS WIND TURBINE**  
 CHAGRIN FALLS, OHIO  
 PROJECT NO. 10263G

DWG DATE	DWG BY	APPROVED BY
9-22-10	HRP	DAN

### LABORATORY LOG OF BORING



**EDP Consultants, Inc.**

PROJECT NAME Kenston Schools - Wind Turbine		LOCATION Chagrin Falls, Ohio		BORING NUMBER B-1		BORING DEPTH 22.0 ft		SHEET 1 of 1	
CLIENT Kenston Local Schools		PROJECT NUMBER 10263G				WATER LEVEL None $\nabla$		None $\nabla$	
DRILLING METHOD Hollow Stem Auger		DRILLER/HELPER/LOGGED BY: RH/CS/DAN		DATE 9/17/10		9/17/10		9/17/10	
BORING START & COMPLETION Date/Time 9/17/10-9:35 am, 9/17/10-11:45 am		SURFACE ELEVATION 1250.4 ft		TIME Encount.		W.B.P.A.		Compleat.	
				BOREHOLE OPEN				20.5 ft	

DEPTH (FT)	SAMPLE	TYPE	SAMPLE RECOVERY, in CORE RECOVERY %	SYMBOL	SOIL DESCRIPTION	STANDARD PEN. Blows/6in. RQD %	Qu (tsf)	DRY UNIT WEIGHT (pcf)	PL (%)	WC (%)	LL (%)
				TOPSOIL (4")							
	1	SB	18	[diagonal lines]	FILL: Brown lean CLAY with sand	6-8-9				15	
5	2	ST	20	[dots]							
	3	SB	18	[diagonal lines]	Medium stiff gray lean CLAY with organics (CL)	3-2-3				22 23	
10	4	SB	18	[diagonal lines]	Stiff brown lean CLAY with sand layers and sandstone (CL)	4-6-7				17	
	5	ST	24	[dots]							
	6	SB	6	[diagonal lines]	Very stiff to hard brown and dark gray sandy lean CLAY, residual (CL)	50/6"				13 7	
15				[horizontal lines]	Very soft gray with brown SHALE						
	7	SB	8	[dots]	Very soft brown and gray SANDSTONE with sandy lean clay layers	19-50/2"				10	
20				[dots]	Moderately hard gray SANDSTONE						
	8	SB	1/8	[dots]	Auger refusal at 22 ft.	50/1/2"					

SB = SPLIT-BARREL/SPLIT-SPOON  
 ST = SHELBY TUBE  
 AS = AUGER SAMPLE  
 GP = GEOPROBE

REMARKS:

EDP\_10263.GPJ EDP-1.GDT 9/27/10

## BORING LOG TERMINOLOGY

### CLASSIFICATION TERMINOLOGY AND CORRELATIONS

COHESIVE SOILS			NON COHESIVE SOILS		
N value (blows/ft)	Consistency Term	Unconfined Compressive Strength (tsf)	N value (blows/ft)	Relative Density Term	Relative Density
0-2	very soft	<0.25	0-4	very loose	<0.15
2-4	soft	0.25-0.5	4-10	loose	0.15-0.35
4-8	medium stiff	0.5-1.0	10-30	medium dense	0.35-0.65
8-15	stiff	1.0-2.0	30-50	dense	0.65-0.85
15-30	very stiff	2.0-4.0	>50	very dense	>0.85
>30	hard	>4.0			

### UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

MAJOR DIVISION		SYMBOLS	DESCRIPTION
<b>COARSE GRAINED SOILS</b> more than 50% of material coarser than #200 sieve	<b>GRAVEL and GRAVELLY SOILS</b> more than 50% of material coarse fraction retained #4 sieve	CLEAN GRAVELS little or no fines	GW Well-graded GRAVELS, GRAVEL-SAND mixtures, little or no fines
		GRAVELS with appreciable amount of fines	GP Poorly-graded GRAVELS, GRAVEL-SAND mixtures, little or no fines
	<b>SAND and SANDY SOILS</b> more than 50% of material coarse fraction passing #4 sieve	CLEAN SANDS little or no fines	SW Well-graded SANDS, gravelly SANDS, little or no fines
		SANDS with appreciable amount of fines	SP Poorly-graded SANDS, gravelly SANDS, little or no fines
		SANDS with appreciable amount of fines	SM Silty SANDS, SAND-SILT mixtures
		SANDS with appreciable amount of fines	SC Clayey SANDS, SAND-CLAY mixtures
<b>FINE GRAINED SOILS</b> more than 50% of material finer than #200 sieve	<b>SILTS and CLAYS</b> LIQUID LIMIT less than 50	ML Inorganic SILTS and very fine SANDS, ROCK FLOUR, or CLAYEY SILTS with slight plasticity	
		CL Inorganic CLAYS of low to medium plasticity, gravelly CLAYS, sandy CLAYS, silty CLAYS, lean CLAYS	
		OL Organic SILTS and organic silty CLAYS of low plasticity	
	<b>SILTS and CLAYS</b> LIQUID LIMIT greater than 50	MH Inorganic SILTS, micaceous or diatomaceous fine sandy or silty SOILS, elastic SILTS	
		CH Inorganic CLAYS of high plasticity, fat CLAYS	
		OH Organic CLAYS of medium to high plasticity, organic SILTS	
<b>HIGHLY ORGANIC SOILS</b>		Pt PEAT and other highly organic SOILS	

### PARTICLE SIZE IDENTIFICATION

BOULDERS	>300	mm
COBBLES	75-300	mm
coarse GRAVEL	19-75	mm
fine GRAVEL	4.75-19	mm
coarse SAND	2-4.75	mm
medium SAND	0.425-2	mm
fine SAND	0.075-0.425	mm
SILT & CLAY	<0.075	mm

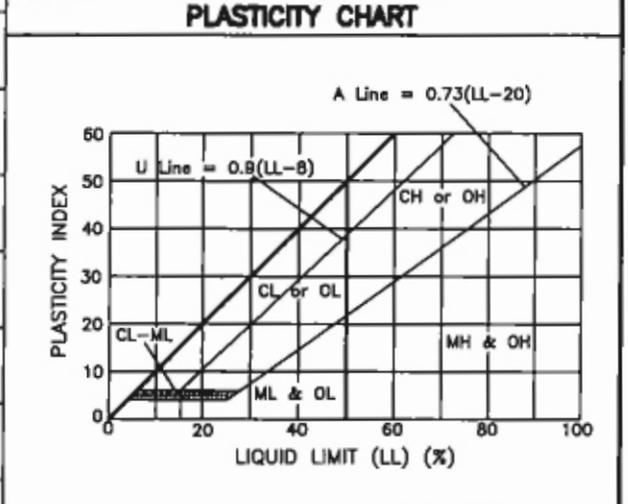
SILT: Plastic Index less than 4 or below the A-Line  
 CLAY: Plasticity Index equal to or greater than 4 or on or above the A-Line

WELL GRADED GRAVEL:  
 Less than 5% passing no. 200 sieve and  $C_u > 4.0$

WELL GRADED SAND:  $C_u > 6.0$  and  $1.0 < C_c < 3.0$

POORLY GRADED GRAVEL or SAND:  
 If either the  $C_u$  or  $C_c$  criteria for well graded soils are not satisfied

$C_u = D_{60}/D_{10}$        $C_c = (D_{30}^2)/(D_{10} \times D_{60})$   
 $D_{10}$ ,  $D_{30}$ , and  $D_{60}$  = Particle-size diameters corresponding to 10, 30, & 60% passing 200 sieve



### SAMPLER AND WATER SYMBOLS

SB=Split-Barrel/Split-Spoon	ST=Shelby Tube
AS=Auger Sample	NX=Diamond Bit Core
	Water at encounter
	2nd water level measurement
	3rd water level measurement
	4th water level measurement

SPT blow count "N": The number of blows of a 140 pound hammer dropping 30" required to drive a split-barrel sampler through each of three 6" increments of penetration through soil or rock.

### OTHER MATERIAL SYMBOLS

	TOPSOIL		VOID		SANDSTONE
	ASPHALT		GLACIAL TILL		CONGLOMERATE
	BASE		COAL		SILTSTONE
	CONCRETE		SHALE		LIMESTONE

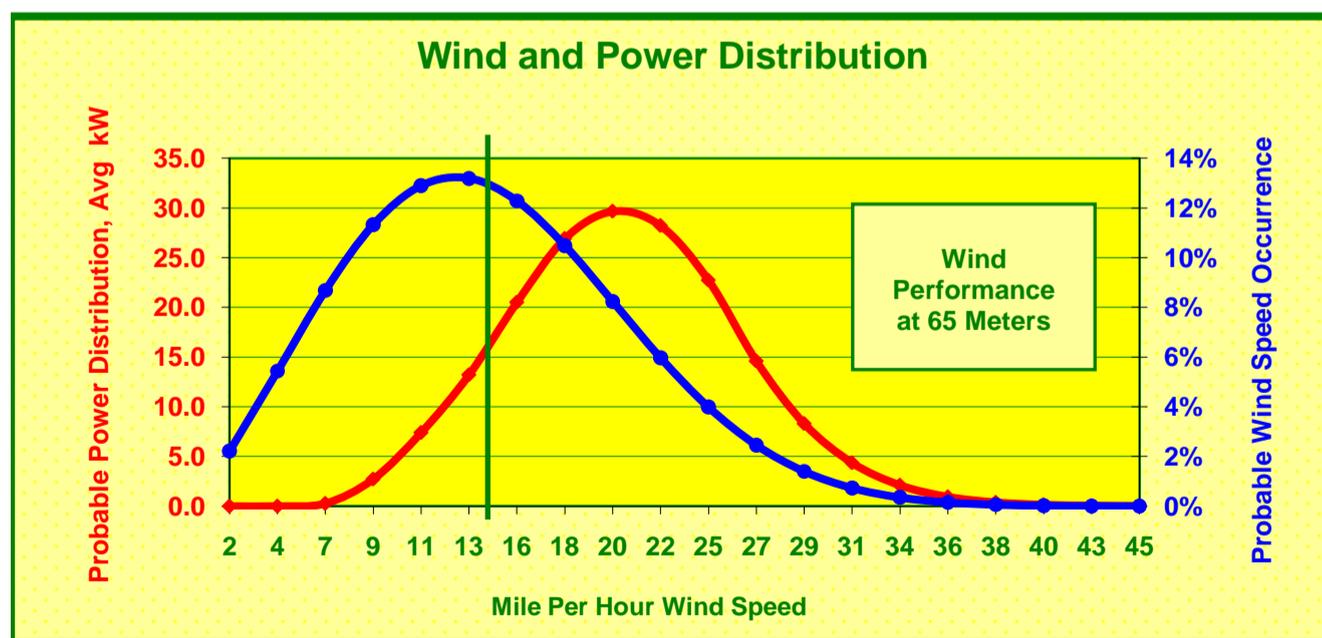
## Wind Resource Report, Site Wind Characteristics Kenston High School

Turbine Model Used For Estimates: Aeronautica / Norwin 54-750  
 Meter Description: High School 1

### Weibull Performance Calculations:

Yearly Average Wind Speed		Turbine Power Curve For Given Average Wind Speeds (kW)	Site Weather Constants	Wind Probability (f)	Average Net kW @ V	Area Wind Dist.:	Area Power Dist.:
Bin (m/s)	(mph)						
1	2.24	0	0.00	2.33%	0.000	67.7%	25.6%
2	4.47	0	0.00	5.67%	0.000		
3	6.71	4	3.07	9.03%	0.277		
4	8.95	30.4	23.31	11.71%	2.729		
5	11.18	72.6	55.68	13.23%	7.366		
6	13.42	126.7	97.16	13.40%	13.015		
7	15.66	211.2	161.96	12.31%	19.945		
8	17.90	324.7	249.01	10.35%	25.774	31.1%	70.7%
9	20.13	455.4	349.24	7.98%	27.882		
10	22.37	598	458.59	5.66%	25.962		
11	24.61	720.7	552.69	3.69%	20.410		
12	26.84	750	575.16	2.22%	12.746		
13	29.08	750	575.16	1.22%	7.034		
14	31.32	750	575.16	0.62%	3.567	1.1%	3.7%
15	33.55	750	575.16	0.29%	1.661		
16	35.79	750	575.16	0.12%	0.709		
17	38.03	750	575.16	0.05%	0.277		
18	40.26	750	575.16	0.02%	0.099		
19	42.50	750	575.16	0.01%	0.033		
20	44.74	750	575.16	0.00%	0.010		
Totals				99.91%	169.496	99.9%	100.0%

14.18    Site Average Wind Speed (MPH) at 65 Meters

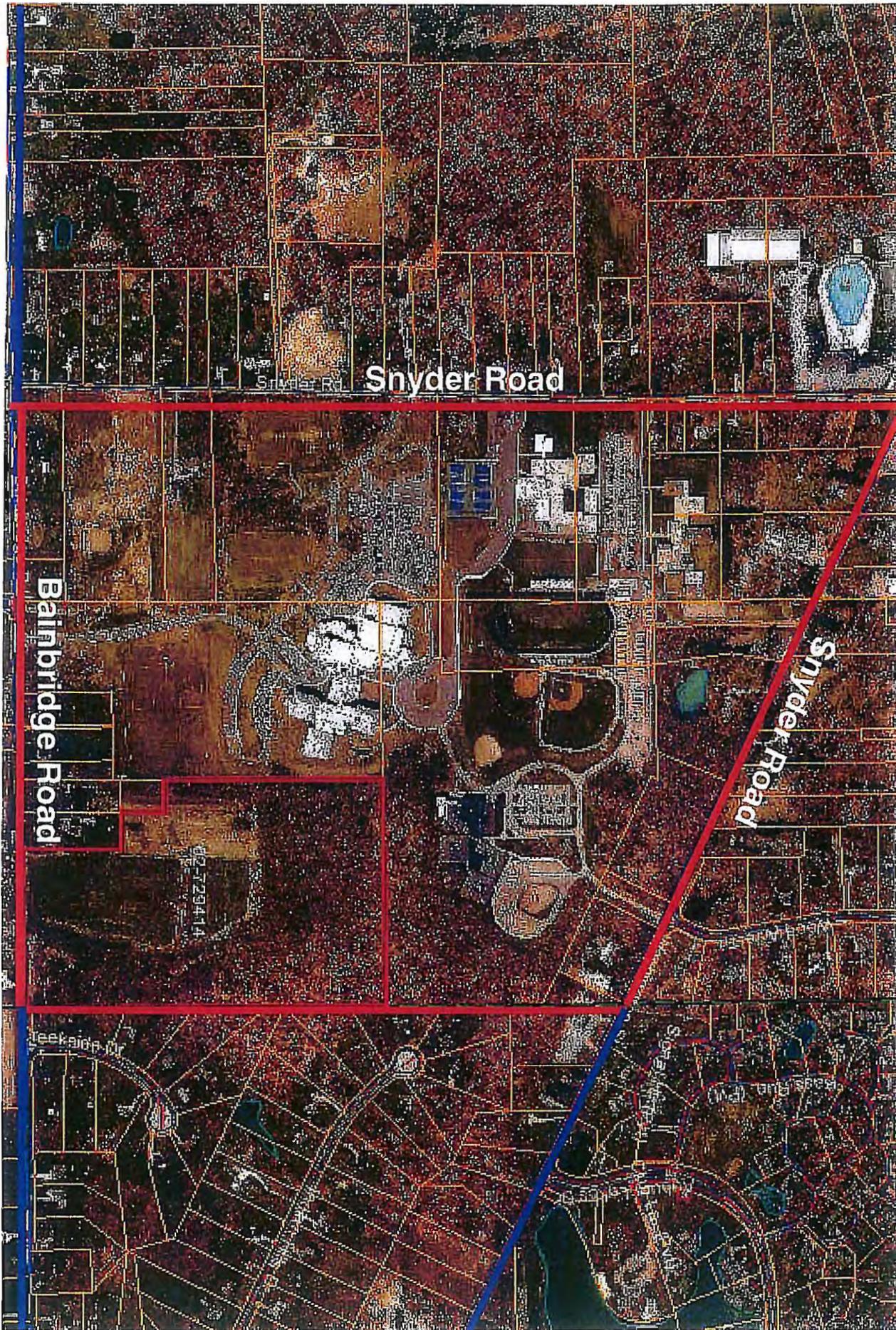




**KENSTON**  
S C H O O L S

# **Street Level Map**

## **Exhibit 6**





**KENSTON**  
S C H O O L S

# **Project Inventory Exhibit 7**

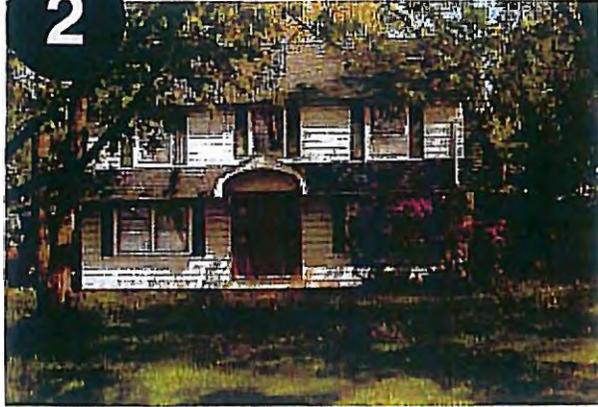


1



**Year Built: 1893 Remodeled: 1999**

2



**Year Built: 1940 Remodeled: na**

3



**Year Built: 1900 Remodeled: 1960**

4



**Year Built: 1857 Remodeled: 1989**

5



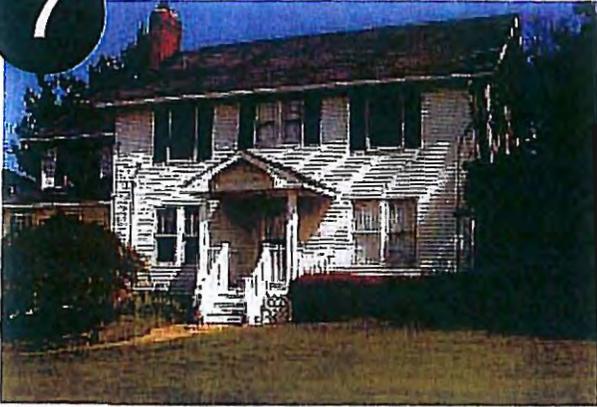
**Year Built: 1990 Remodeled: na**

6



**Year Built: 1998 Remodeled: na**

7



**Year Built: 1926 Remodeled: 1960**

8



**Year Built: 1901 Remodeled: 1996**

9



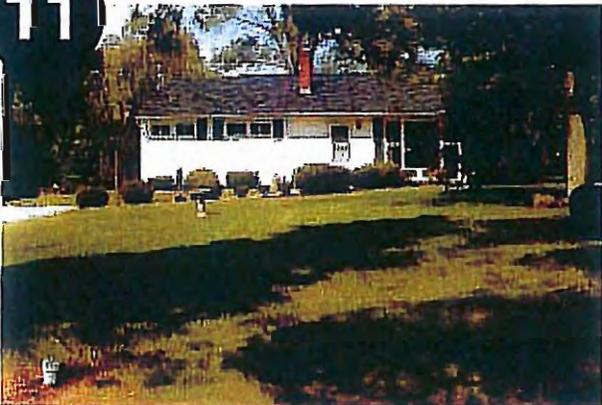
**Year Built: 1930 Remodeled: 1982**

10



**Year Built: 1978 Remodeled: na**

11

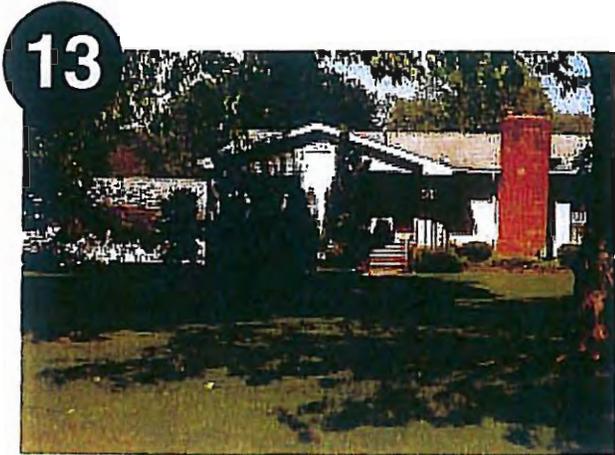


**Year Built: 1950 Remodeled: na**

12



**Year Built: 1958 Remodeled: na**



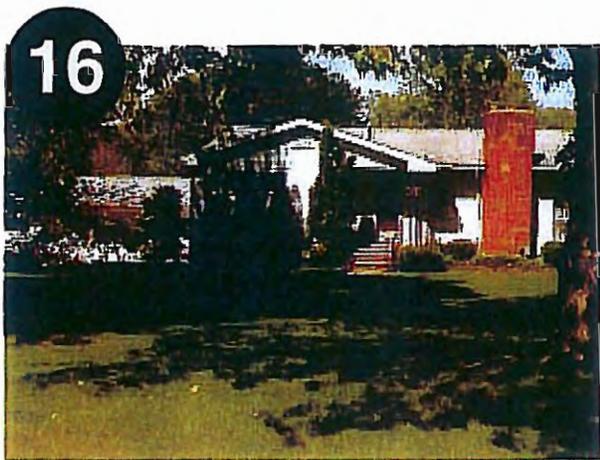
**Year Built: : 1959 Remodeled: na**



**Year Built: 1980 Remodeled: na**



**Year Built: 1958 Remodeled: 2000**



**Year Built:: 1955 Remodeled: 2000**



**Year Built: 1955 Remodeled: 1976**



**Year Built: : 1961 Remodeled: 1988**

13



Year Built: : 1959 Remodeled: na

14



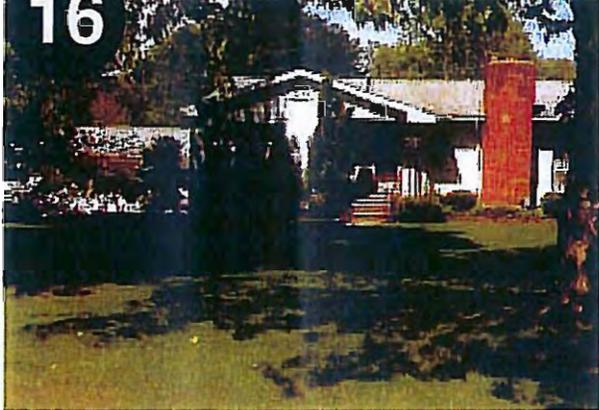
Year Built: 1980 Remodeled: na

15



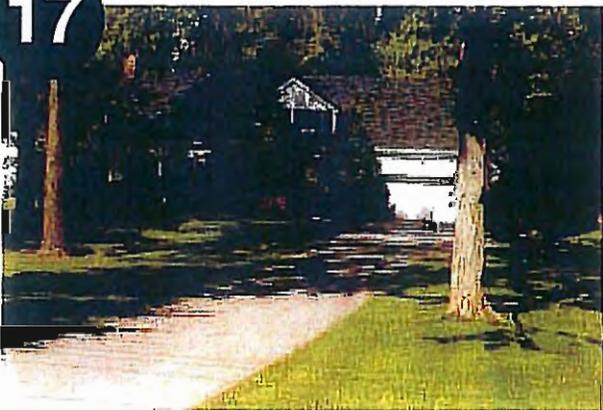
Year Built: 1958 Remodeled: 2000

16



Year Built:: 1955 Remodeled: 2000

17



Year Built: 1955 Remodeled: 1976

18



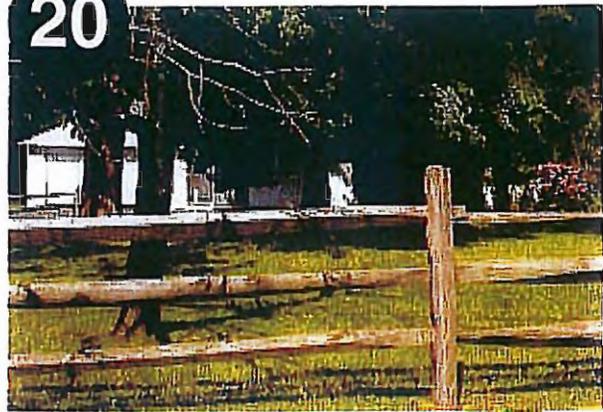
Year Built: : 1961 Remodeled: 1988

19



Year Built: 1972 Remodeled: na

20



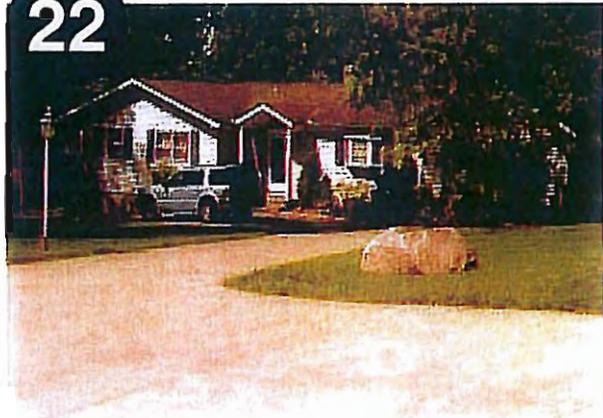
Year Built: 1961 Remodeled: 1999

21



Year Built: 1954 Remodeled: 2003

22



Year Built: 1956 Remodeled: na

23



Year Built: 1910 Remodeled: 1950

24



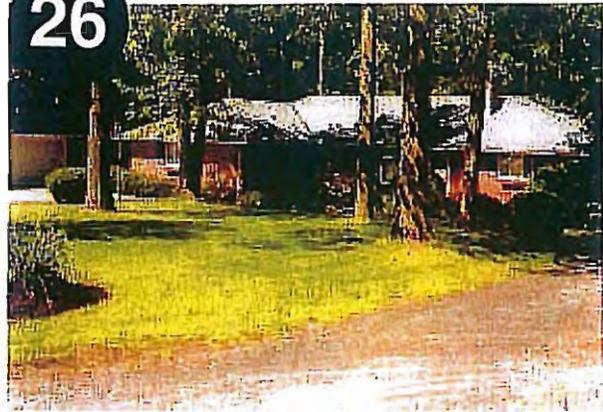
Year Built: 1900 Remodeled: 2005

25



**Year Build: 1900 Remodeled: 1987**

26



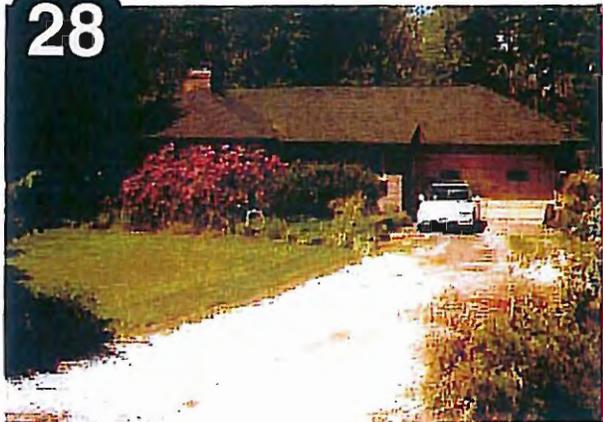
**Year Build: 1954 Remodeled: 1989**

27



**Year Build: 1943 Remodeled: 1995**

28



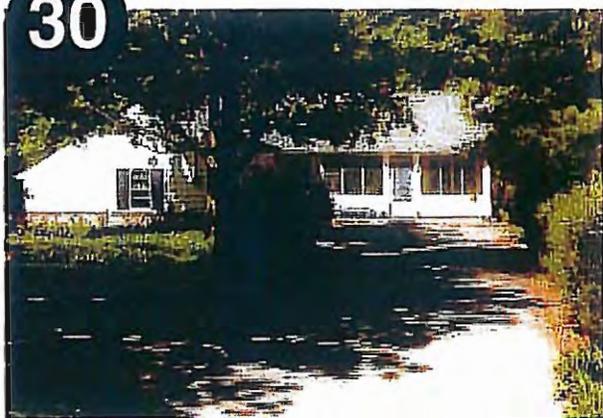
**Year Build: 1956 Remodeled: na**

29



**Year Build: 1956 Remodeled: 1991**

30



**Year Build: 1955 Remodeled: 1989**

31



Year Build: 1963 Remodeled: 1999

32



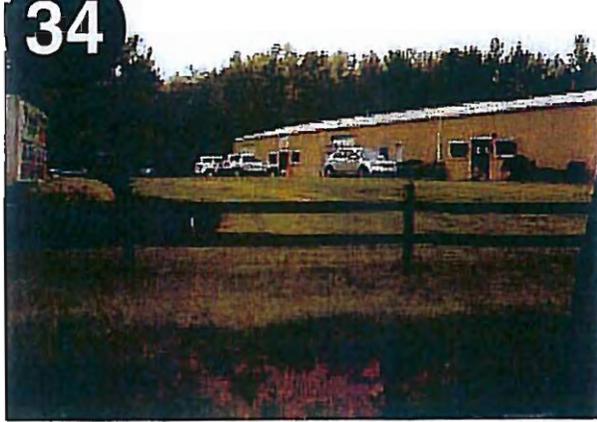
Year Build: na Remodeled: na  
Business

33



Year Build: 1955 Remodeled: na

34



Year Build: na Remodeled: na  
Business

35



Year Build: 1945 Remodeled: 1975

36



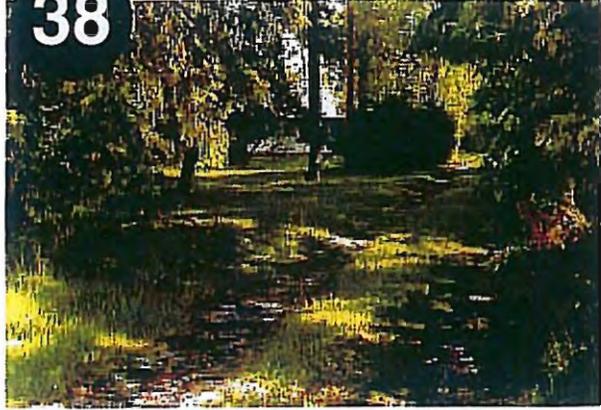
Year Build: na Remodeled: na  
Business

37



Year Built: 1942 Remodeled: 1978

38



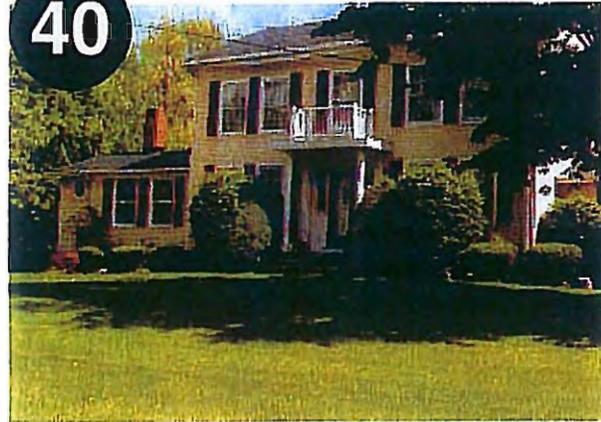
Year Built: 1945 Remodeled: na

39



Year Built: 1942 Remodeled: na

40



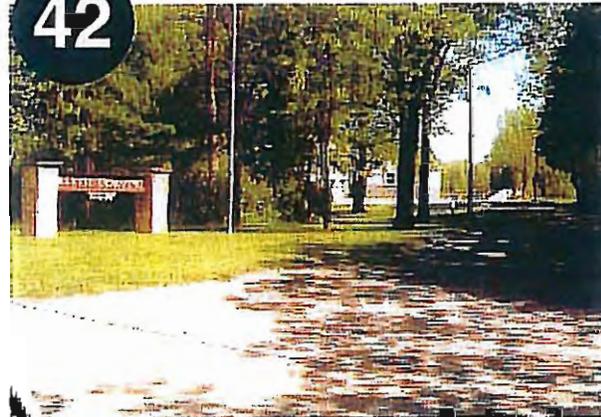
Year Built: 1932 Remodeled: na  
Business

41



Year Built: 1950 Remodeled: na  
Business

42



Year Built: na Remodeled: na  
Business

43



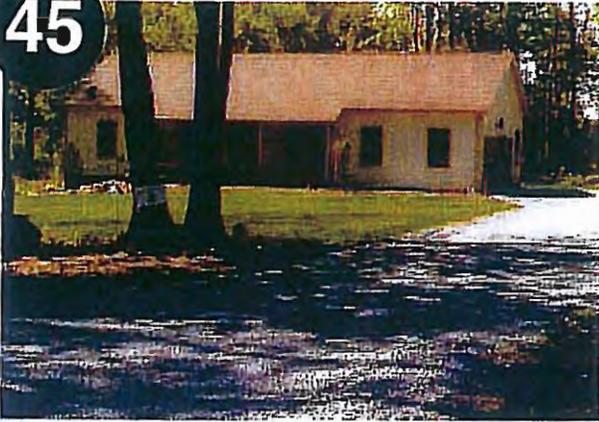
Year Built: 1958 Remodeled: na

44



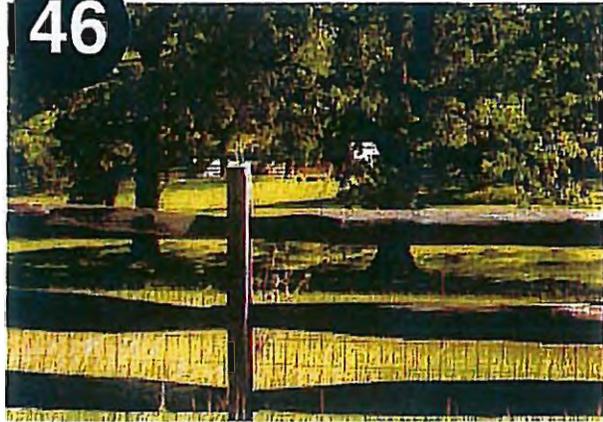
Year Built: 1941 Remodeled: 1998

45



Year Built: 2009 Remodeled: na

46



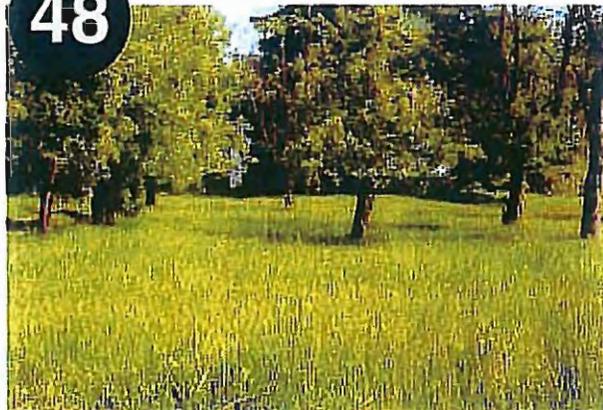
Year Built: 1950 Remodeled: 2003

47



Year Built: 1940 Remodeled: 2003

48



Year Built: 1956 Remodeled: 1980

49



**Year Built: 1955 Remodeled: 1988**

50



**Year Built: 1979 Remodeled: na**

**A**



**Gardiner Early Learning Center**  
Year Built: 1962 + 2 additions  
1964, 1995

**B**



**Timmons Elementary School**  
Year Built: 1994 + 1 addition  
2006

**C**



**Kenston Intermediate School**  
Year Built: 1967 + 3 additions  
1969, 1994, 2000

**D**



**Kenston Middle School**  
Year Built: 1956 + 5 additions  
1958, 1964, 1973, 1974, 1988

**E**



**Kenston High School**  
Year Built: 2006

N - S

# Aerial View



Exhibit 6

N - S

# Aerial View



Exhibit 6

W - E

# Aerial View

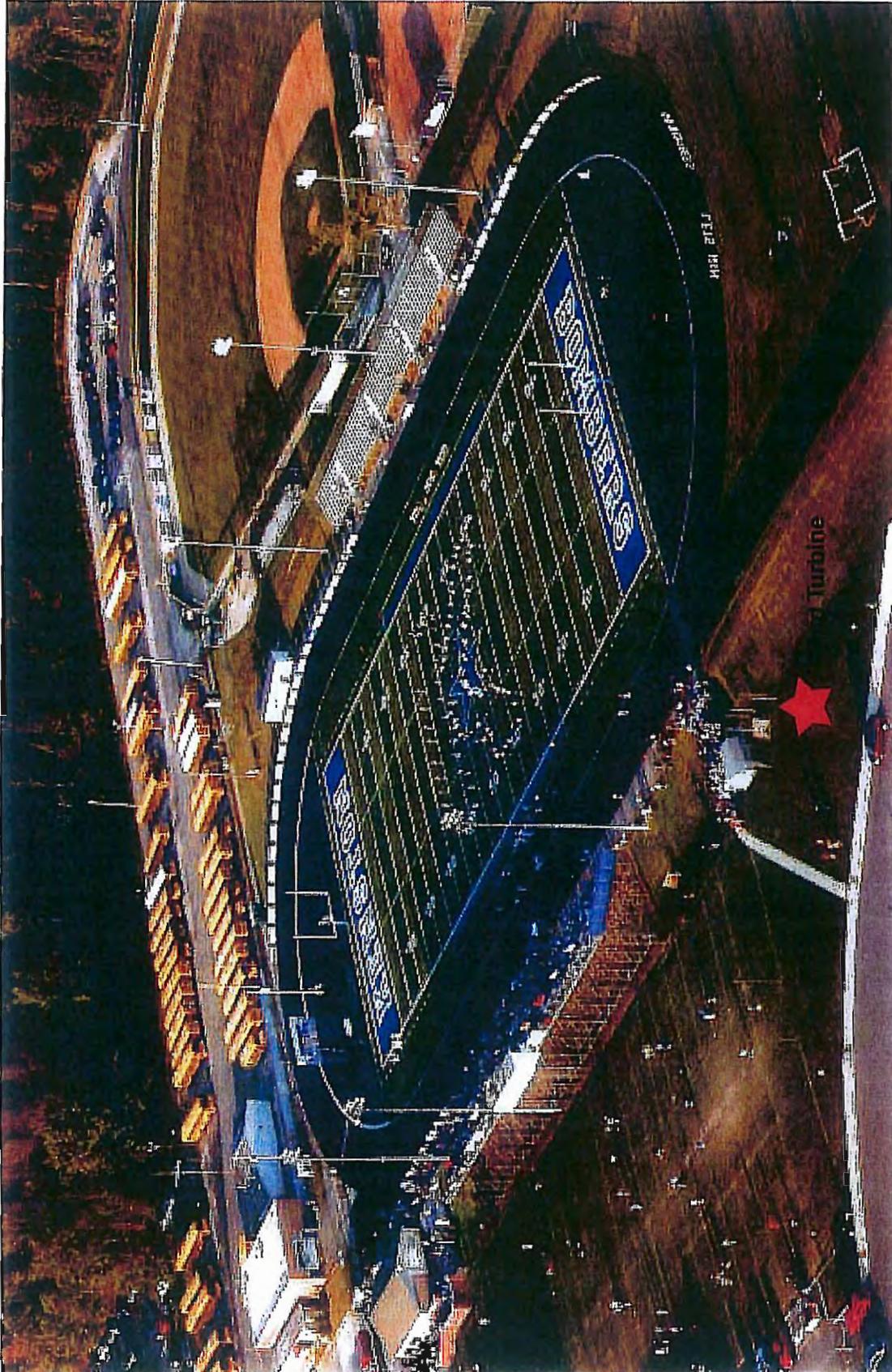


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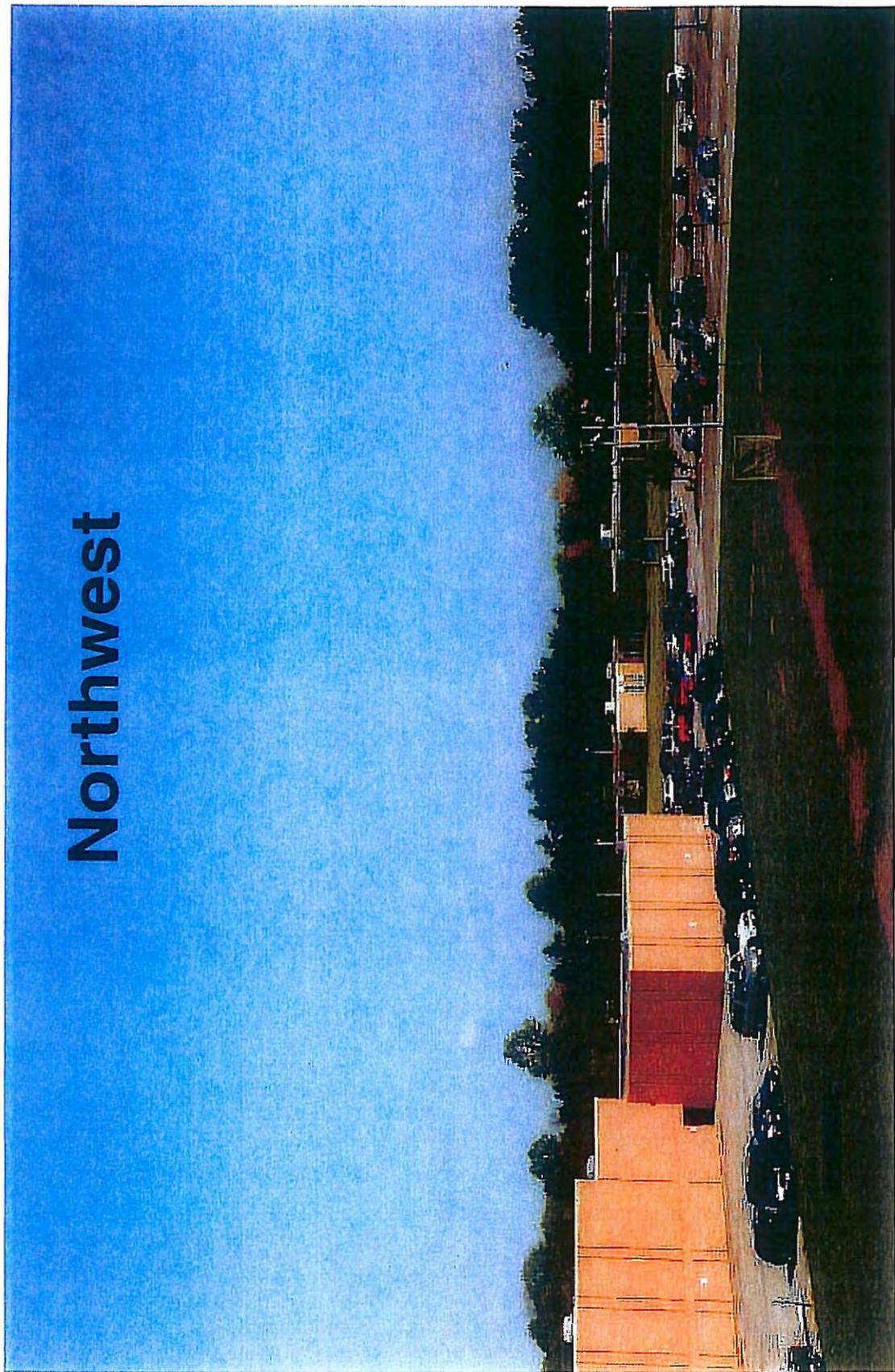


Exhibit 6

**East**



Exhibit 6

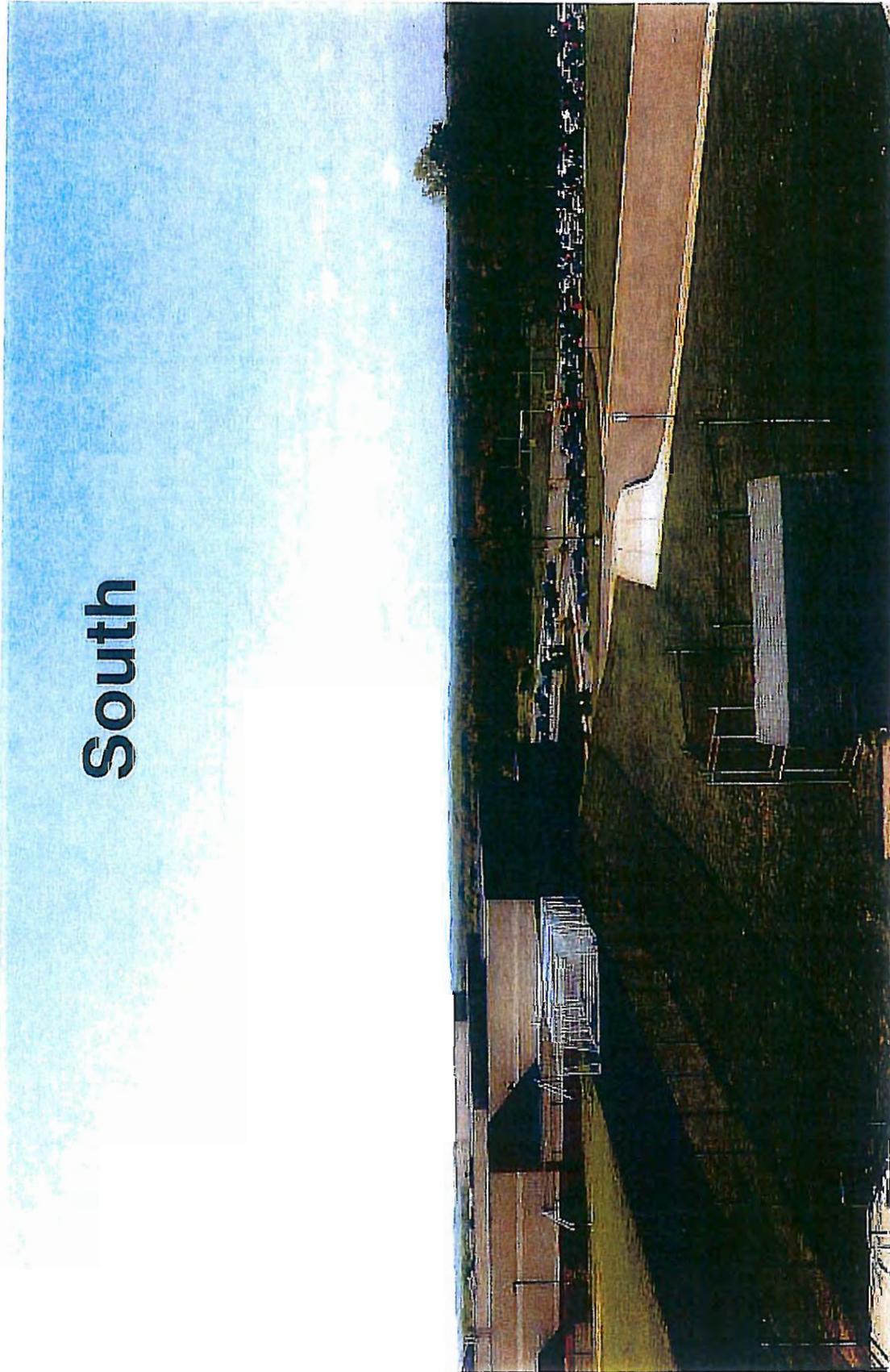


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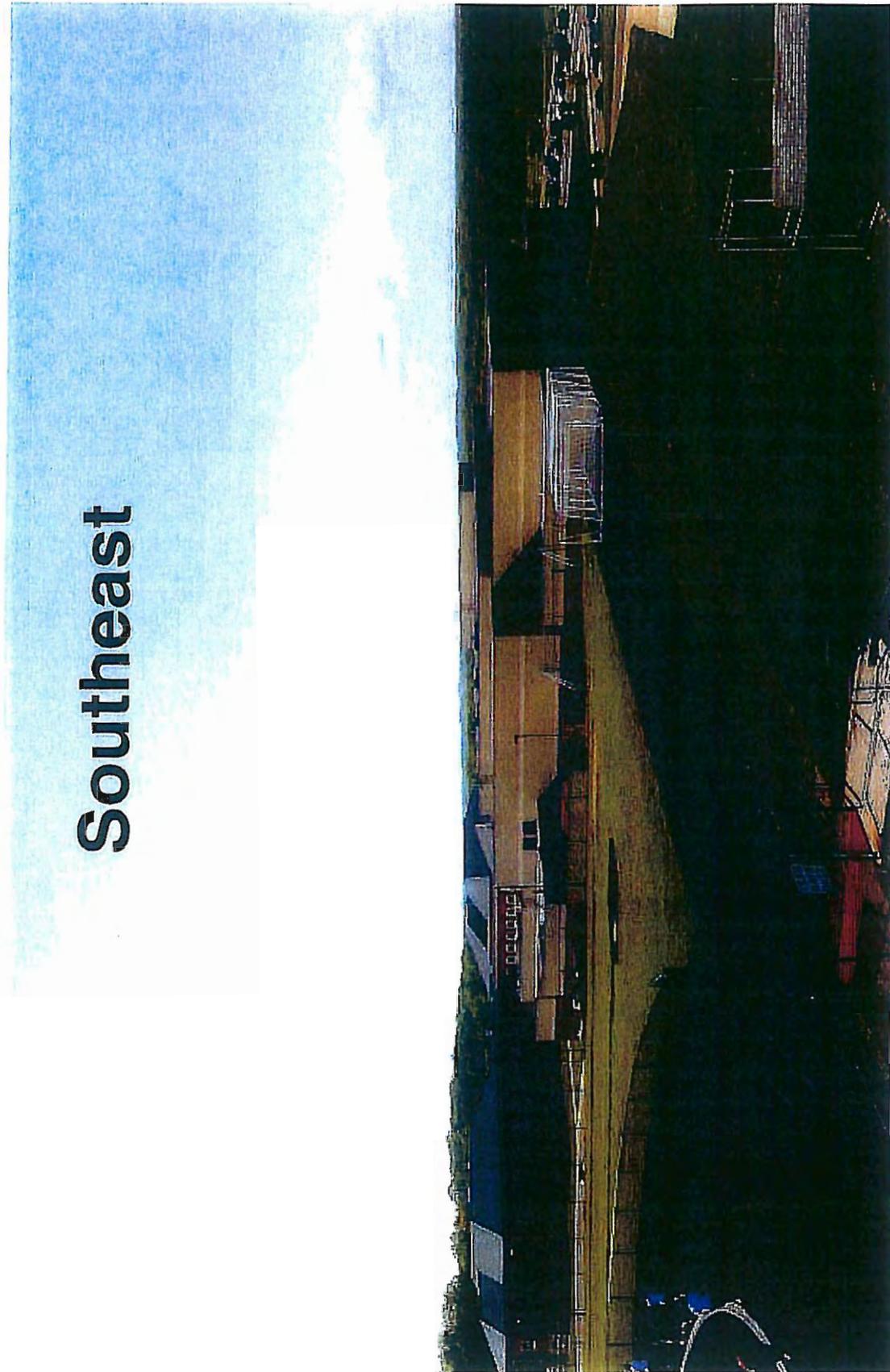


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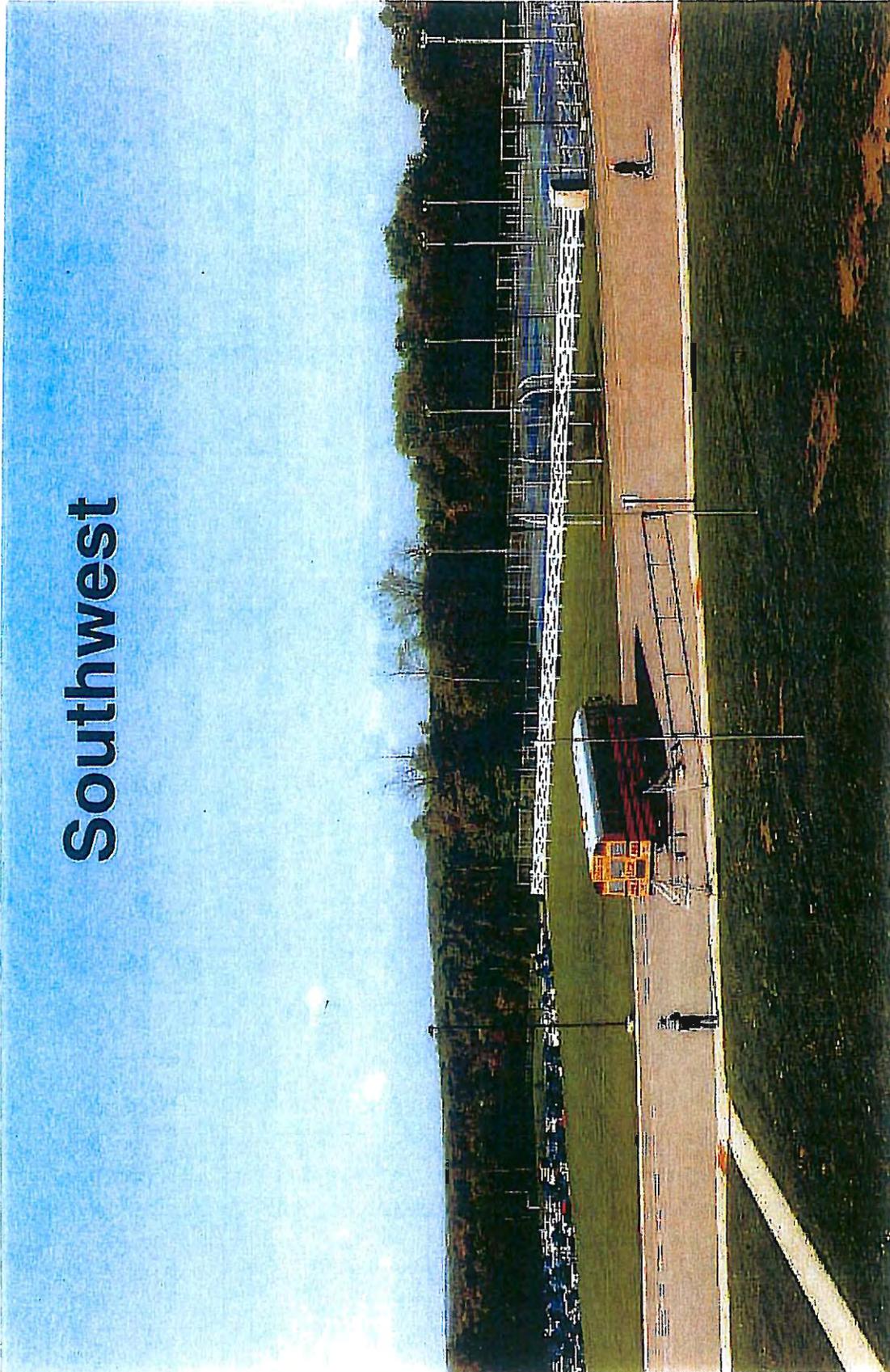


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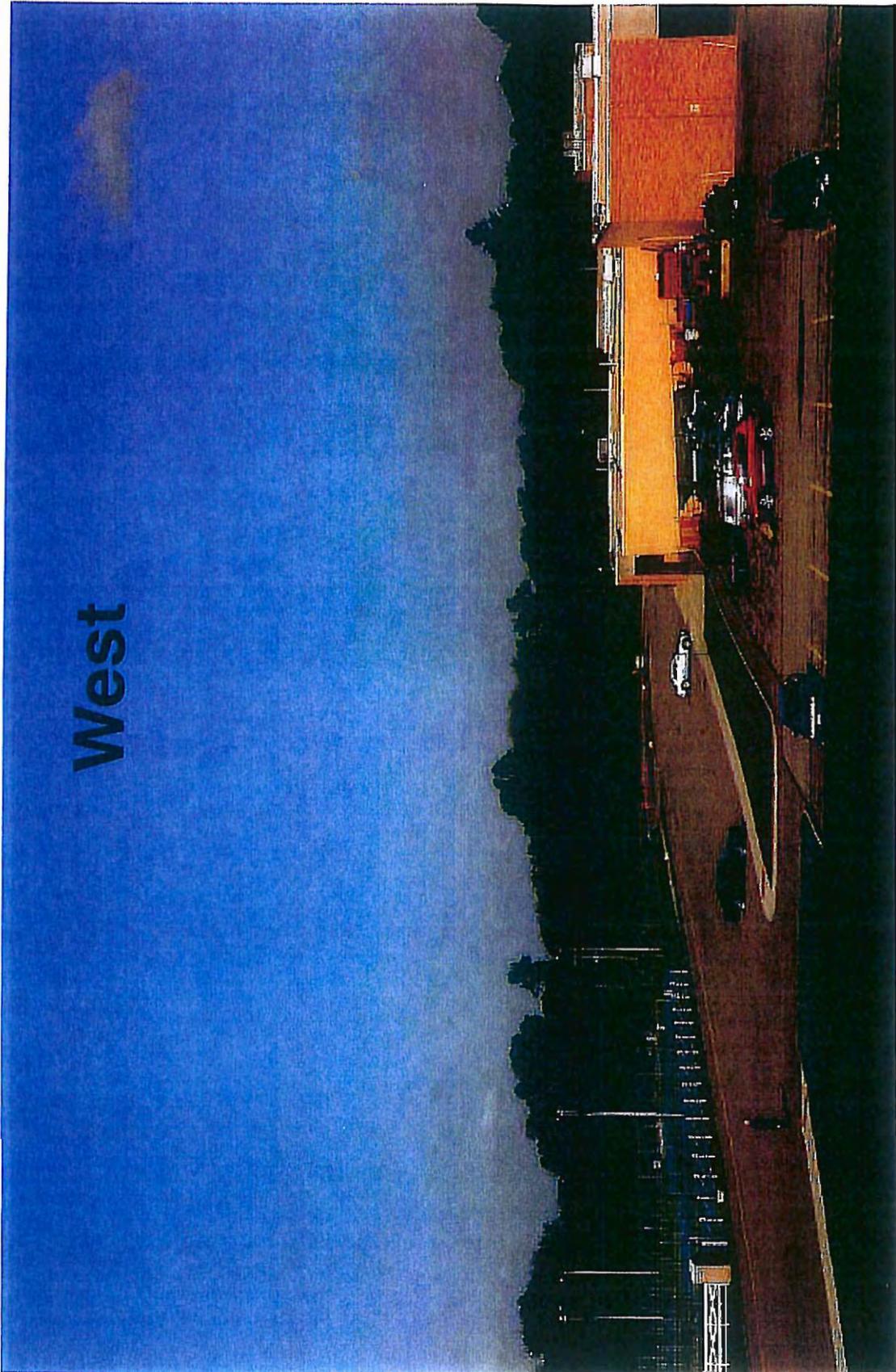


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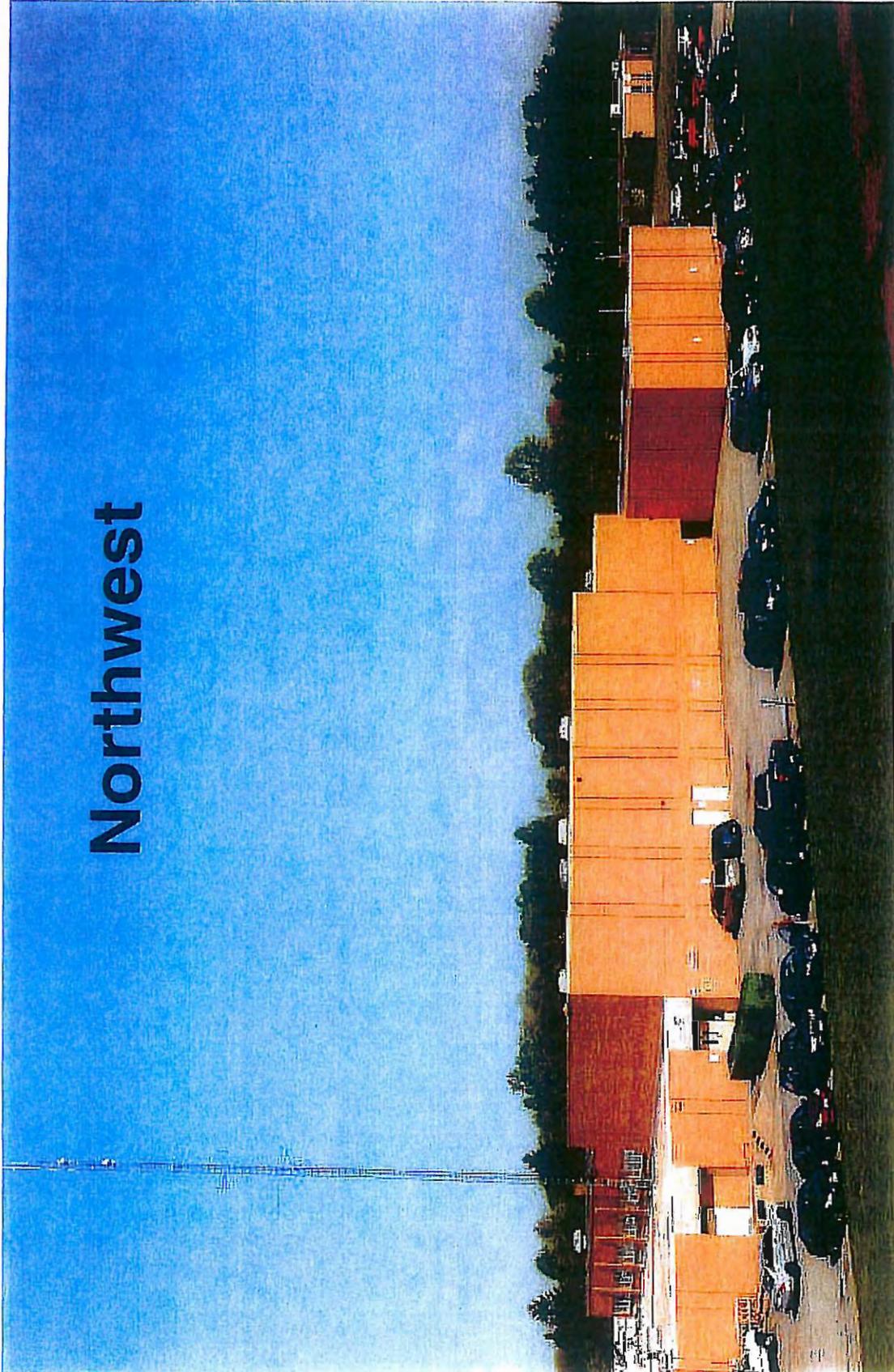


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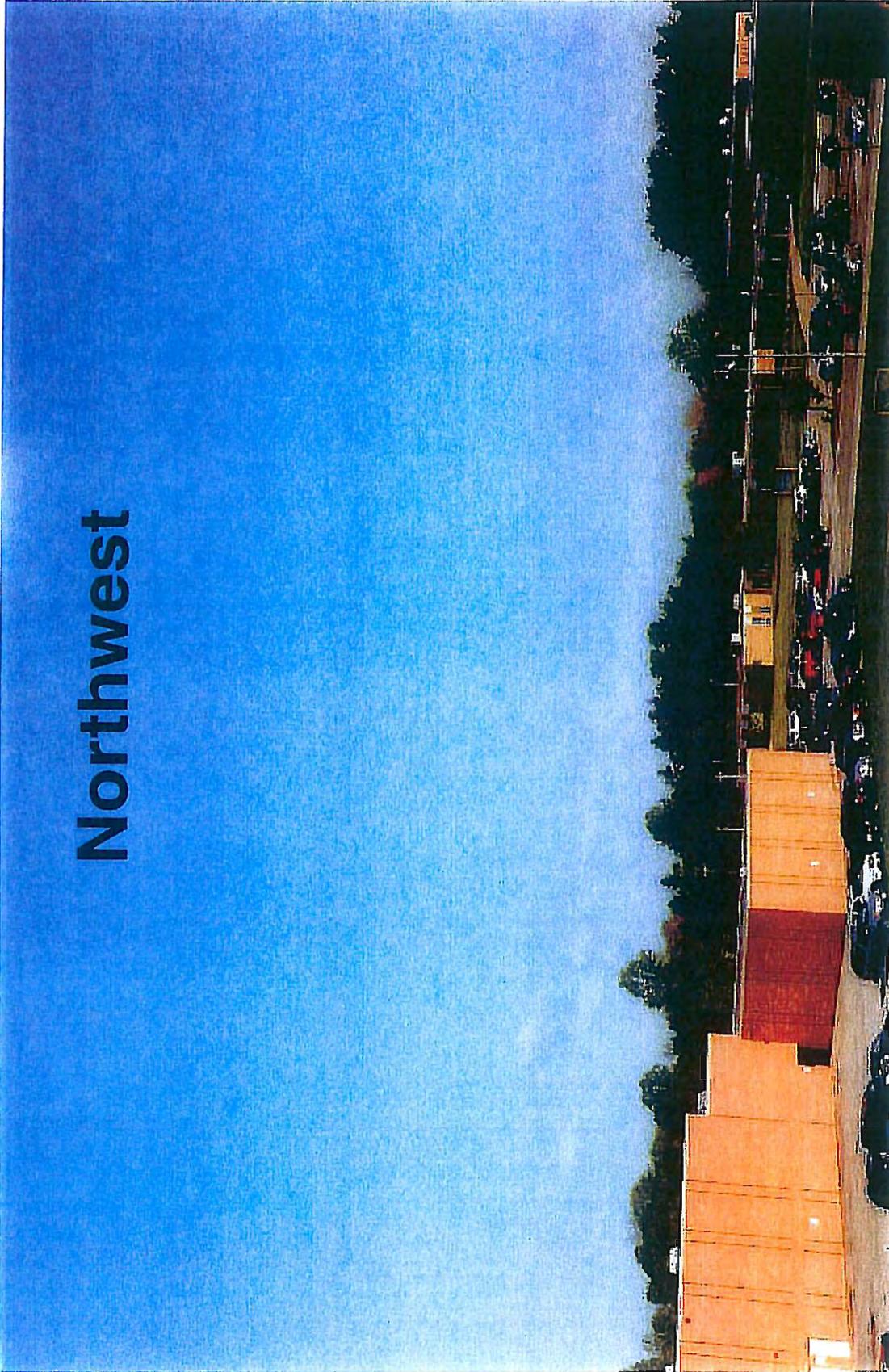


Exhibit 6



Exhibit 6



# Northeast



Exhibit 6

**East**

100  
100  
100  
100

100  
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100  
100

100  
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100  
100

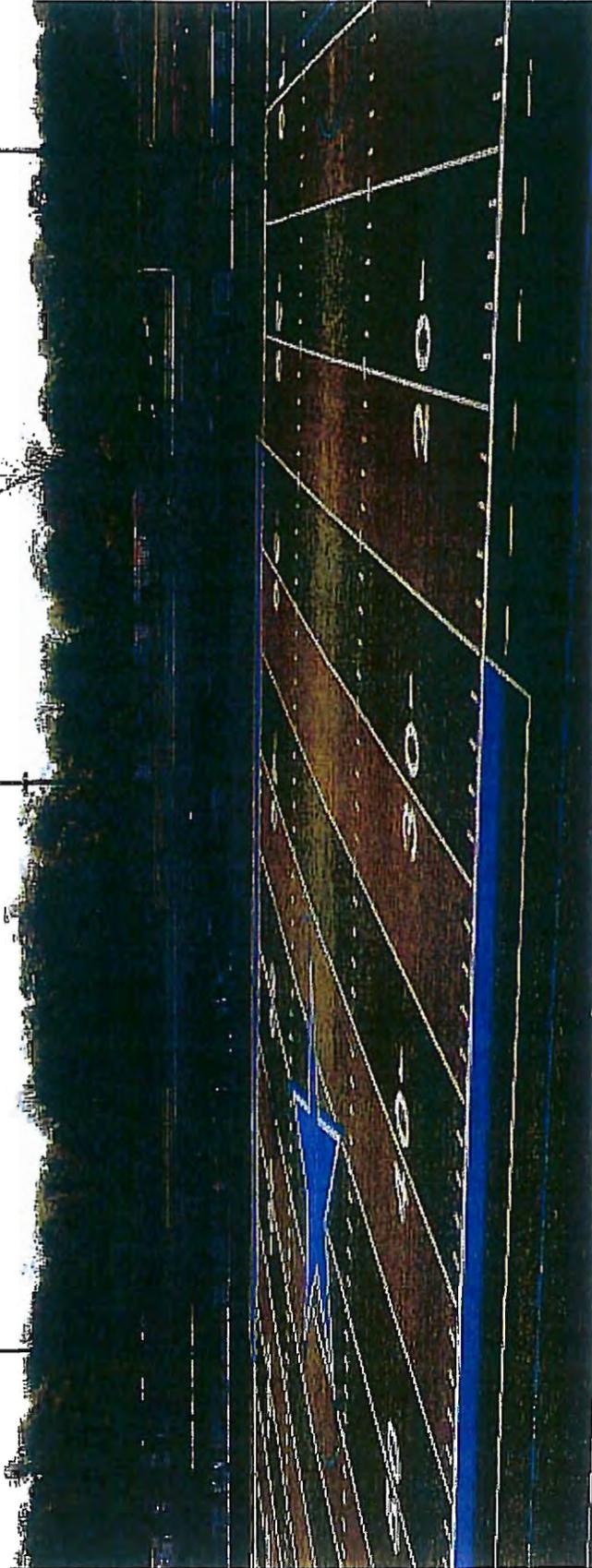


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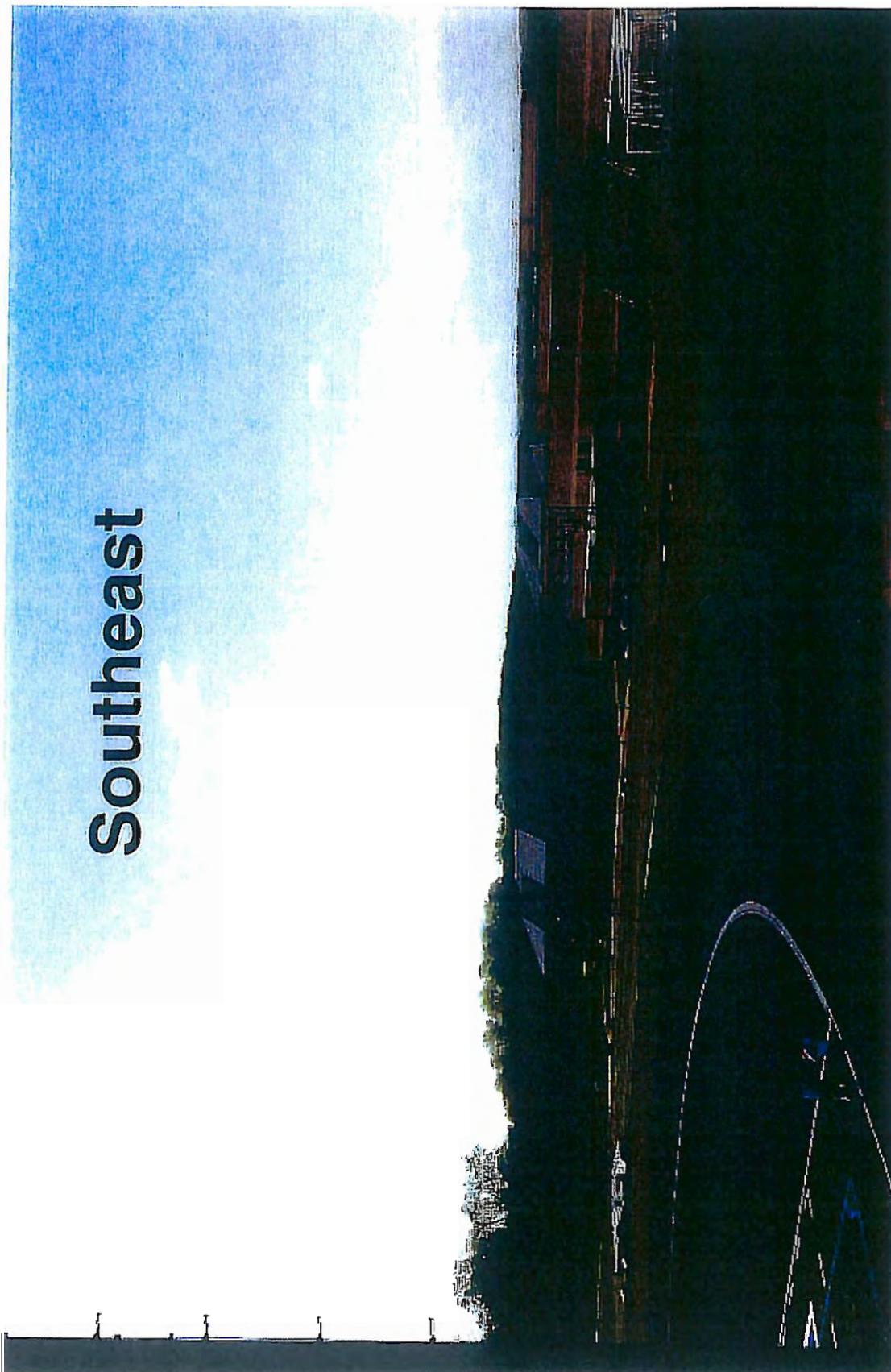


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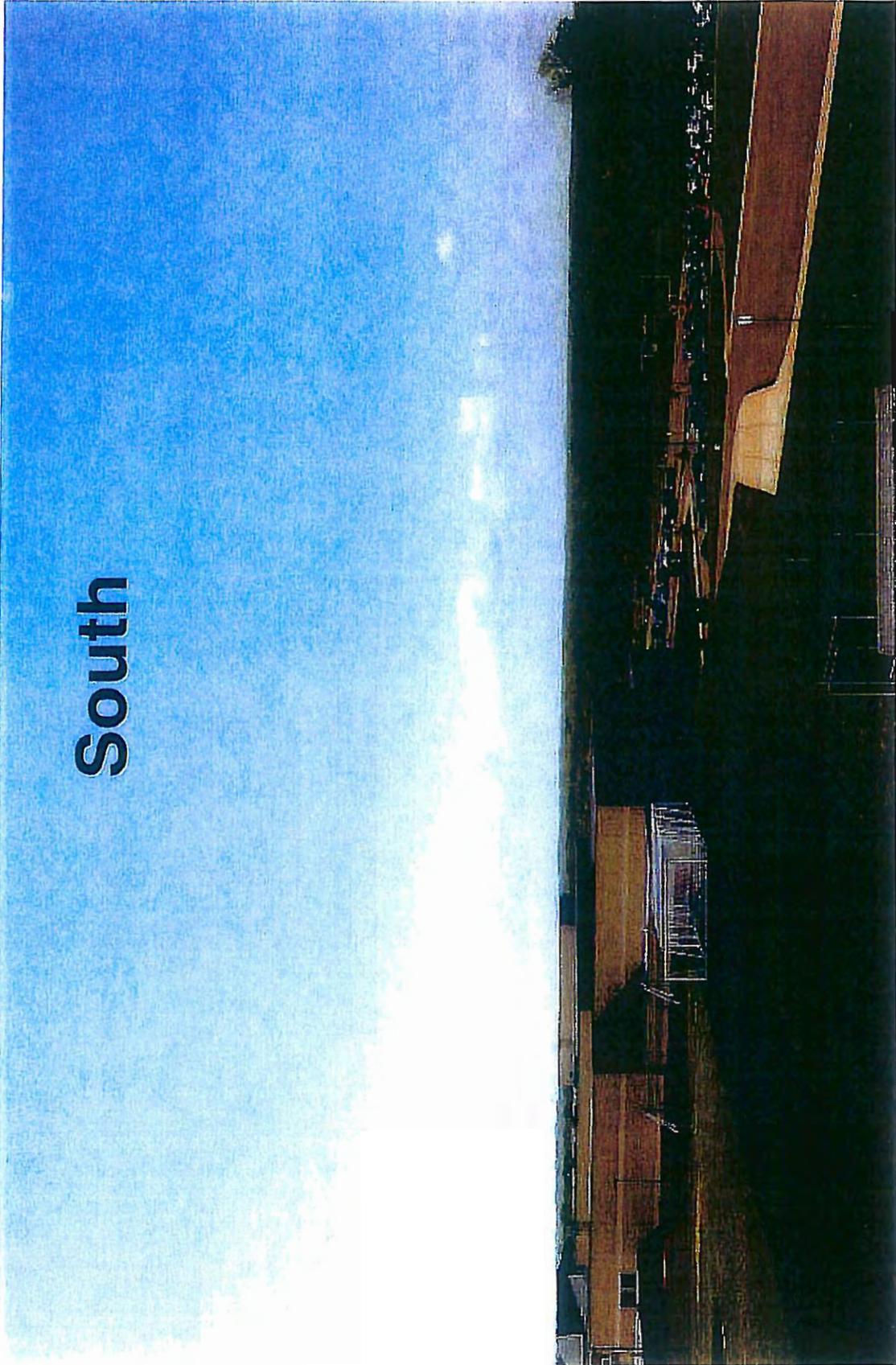


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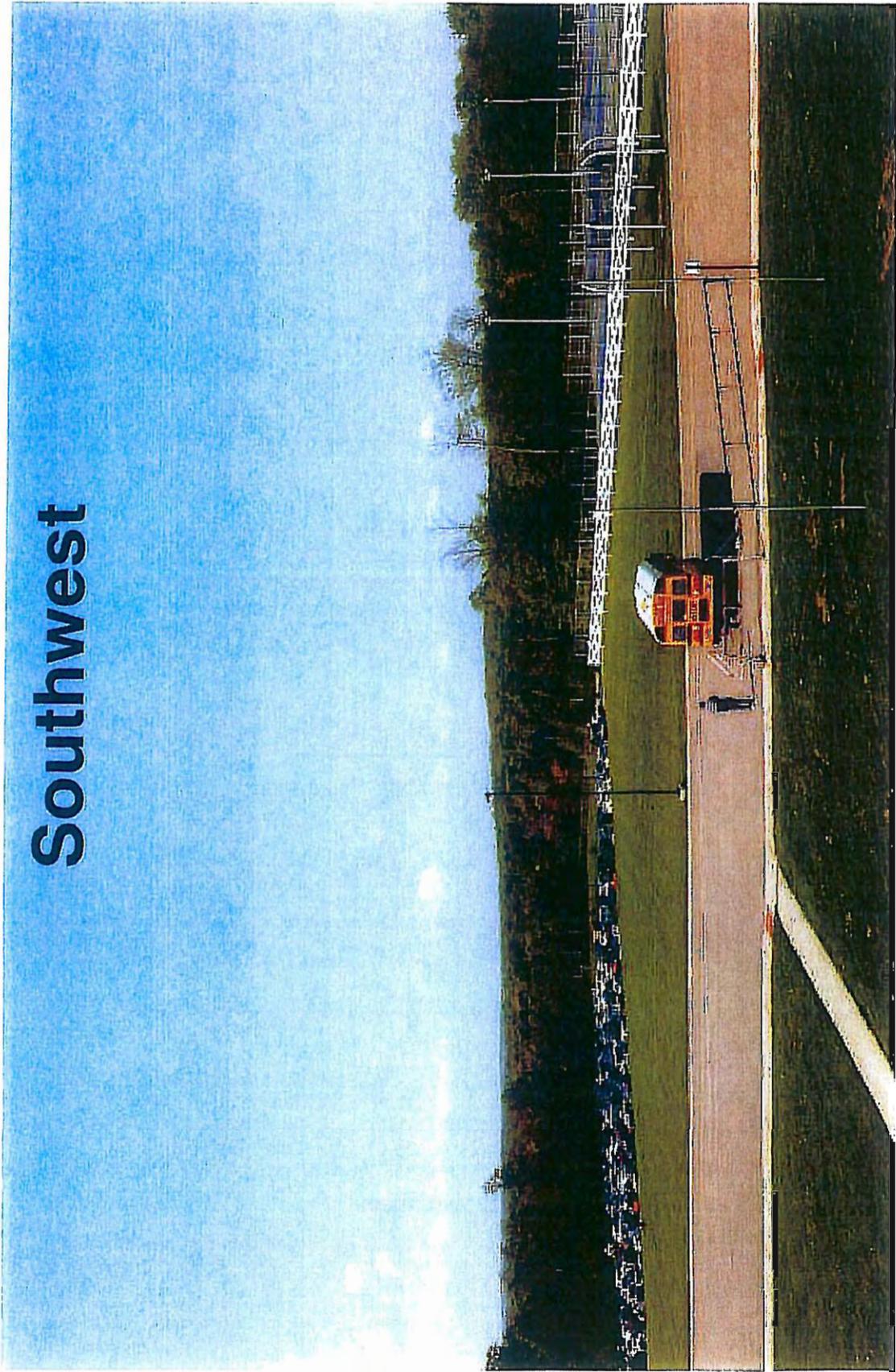


Exhibit 6