



Ralph C. Wilson, Jr.

Niagara

Community Center

**JENS PONIKAU**

CERTIFIED GEOTHERMAL DESIGNER

VICE PRESIDENT NY-GEO ENERGY ASSOCIATION

PRESIDENT, BUFFALO GEOTHERMAL LLC

APRIL 13, 2021



# GARY HALL

## A LIFE OF PHILANTHROPIES

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- Board of Directors at the Niagara Falls Boys and Girls Club
- Co-Founder of the Hanci Reading All Stars program
- Hosts the Lower Niagara Annual Steelhead Challenge fishing tournament for the Cystic Fibrosis Foundation
- Provided two schools for children in Sierra Leone through EDU-nations.



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MAVIC PRO

# BUILDING FEATURES

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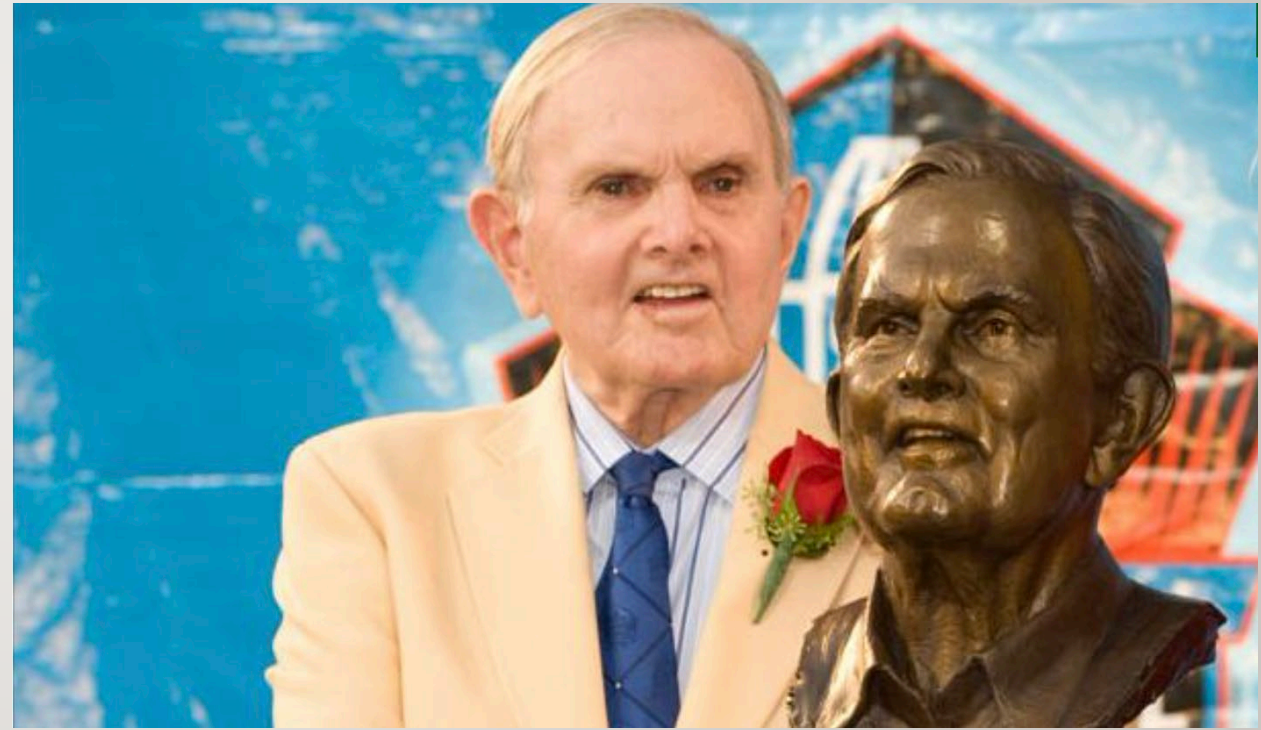
- 22,000 sqf
- 3 tennis courts
- Multi use
- 40ft high
- Net Zero emissions
- Clean power from Niagara Falls
- No gas or backup heat for geo



# RALPH WILSON JR

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- Founder & Owner of Buffalo Bills
- Last of the original AFL owners
- Owner Bills until 95 years of age, for 54 years
- Founding owner of the American Football League (AFL)
- 2009 Pro Football Hall of Fame





## JOHN BON JOVI OFFERED \$1,05B FOR BILLS HAD A CHECK ALONG FOR \$1.3B

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“We showed up with a billion three, sitting there with a check”  
Bon Jovi told GQ.

“And we could have easily bought it at any price.  
We didn’t get to get back in the room.”

# LOWEST BIDDER

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- Trump's efforts to take down the Toronto the Bon Jovi bid –  
was orchestrated by Michael Caputo
- Pushed the narrative that if Bon Jovi and his partners got the team, they would move the Bills to Toronto.
- Was behind a group called "Bills Fans Thunder"  
(originally 12th Man Thunder), and the group created  
"Bon Jovi-free zones," which sprung up at local bars and businesses.



In this Aug. 16, 2014, file photo, a Buffalo Bills fan displays a shirt and a sign in protest of Jon Bon Jovi's interest in the Buffalo Bills, during an NFL preseason football game between the Bills and Pittsburgh Steelers in Pittsburgh. Don Wright,



# Donald Trump: Terry Pegula overpaid for Bills because of me

Donald Trump says Terry Pegula overpaid for the Bills because of Donald Trump.



Trump bid \$1B for Buffalo Bills



# KIM AND TERRY PEGULA

- Sold natural gas assets in Pennsylvania for \$4.7 B
- Had bidden \$1.3B for Bills
- (Pegula) said, ‘What do I have to do to not leave this table without owning the team?’ ”
- Answer: Write a check for \$1.4B



Philanthropy & Nonprofits

# Ralph Wilson Foundation awards \$1M to Niagara Community Center





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- Designed and built the geo system free of charge
  - Foundation paid for equipment and material at cost
  - Reduced the 34 ton geo system cost to \$152,000
  - \$4,470/ton
  - Bringing gas onsite and installing conventional heating A/C system \$350,000
  - \$2.4 M total budget
  - \$1M came from Ralph Wilson Jr Foundation
  - Gary Hall underwrote the remaining \$1.4M

THE STATE OF MINNESOTA  
COUNTY OF WASHINGTON  
PROJECT NO. 1-18-14-12

8" o.g.s in placement

West mechanical room

East mechanical room

SOUTH LINE OF LEVEL 201  
540.26'

125.98'

87.00'

50.00'

100.08'

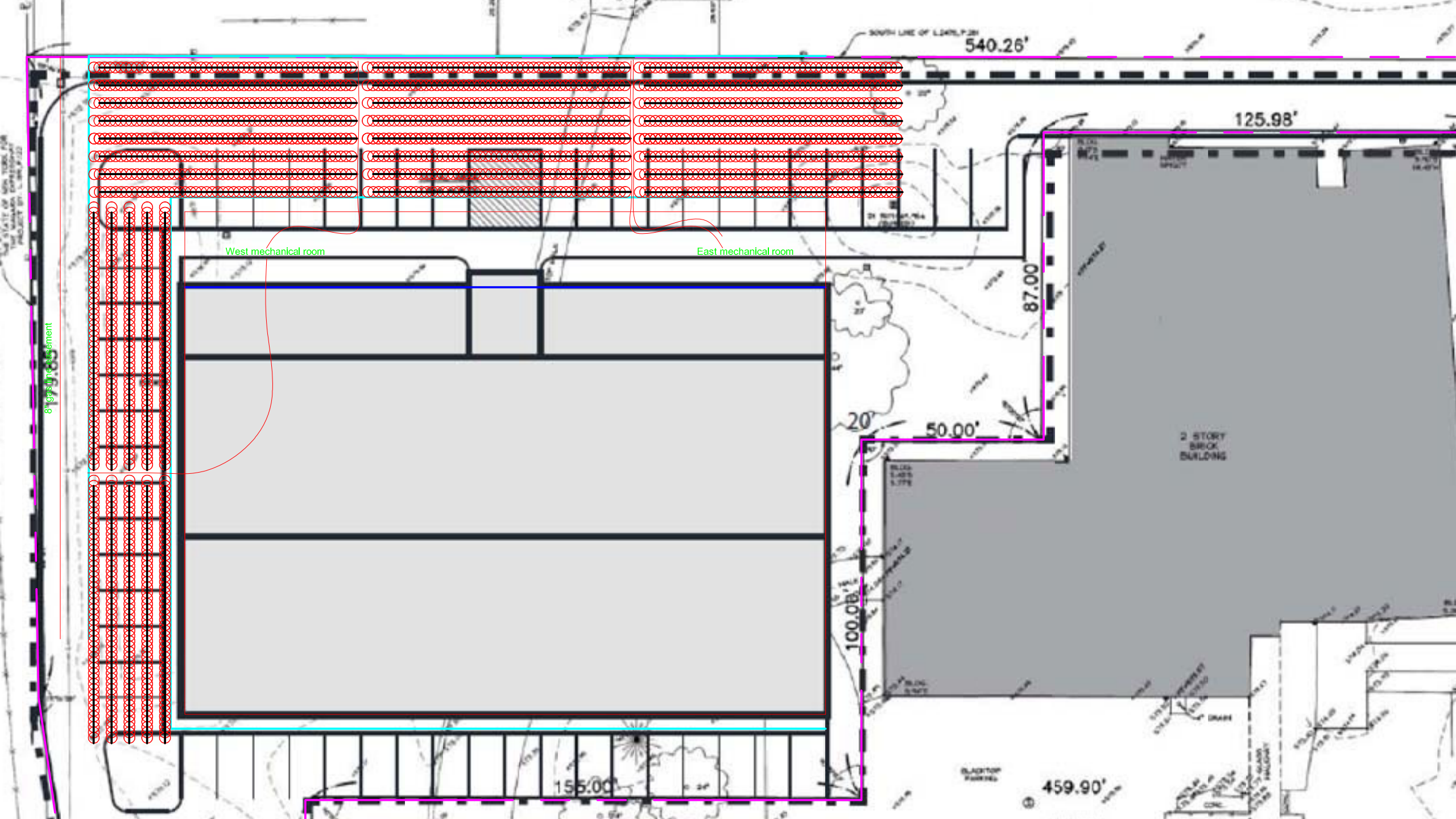
155.00'

459.90'

2 STORY  
BRICK  
BUILDING

BLACKTOP  
PARKING

STAIR  
WALKWAY



# GEOSYSTEM FEATURES

- 34 Ton forced air
- 2 slinky loop fields
- 2 mechanical rooms
- Serve east and west side of building
- 2 flow centers, variable speed pumping
- Remote controlling and monitoring'
- Simple, cost effective, high performing
- “Lean but mean”

# HORIZONTAL SLINKY LOOP FIELD

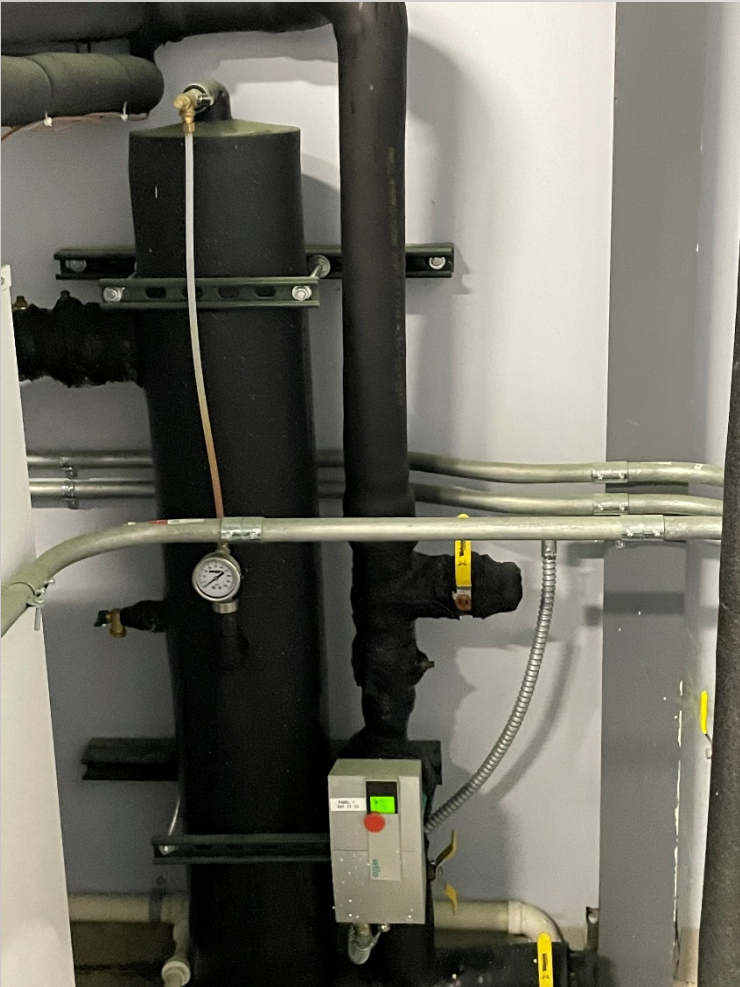


# 2 MECHANICAL ROOMS



# VARIABLE SPEED PUMPING

“ONLY PUMP AS MUCH AS YOU NEED”



- 2.4% of system energy use is pumping
- Variable pressure strategy
- Automatically revs up when more heat pumps come online







# NO ROOF PENETRATION AVOIDED HEAVY OUTDOOR EQUIPMENT

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# REMOTE CONTROLLED SYSTEM

## 4 ZONES

Zones	▼
Bathroom	65 °F
East Wall	66 °F
North Wall	65 °F
West Wall	66 °F

°F Heat

− 65 +

°F Cool

− 70 +

°F Currently

66

°F Outside

58

# REMOTE MONITORING

## Inputs Status



Name	Measurement	Currently
East Sensor - Unit 5 / Unit 6	Temperature	65.64 °F
Bathroom Sensor - Unit 4	Temperature	65.4 °F
West Sensor - Unit 1/2	Temperature	66.02 °F
North Sensor - Unit 3	Temperature	65.39 °F
Outdoor Temperature	Temperature	57.65 °F
East Water In	Temperature	35.23 °F
East Water Out	Temperature	34.51 °F
West Water In	Temperature	38.23 °F
West Water Out	Temperature	38.87 °F
East Water Diff (Out - In)		-0.72
West Water Diff (Out - In)		0.64

# THINGS LEARNED

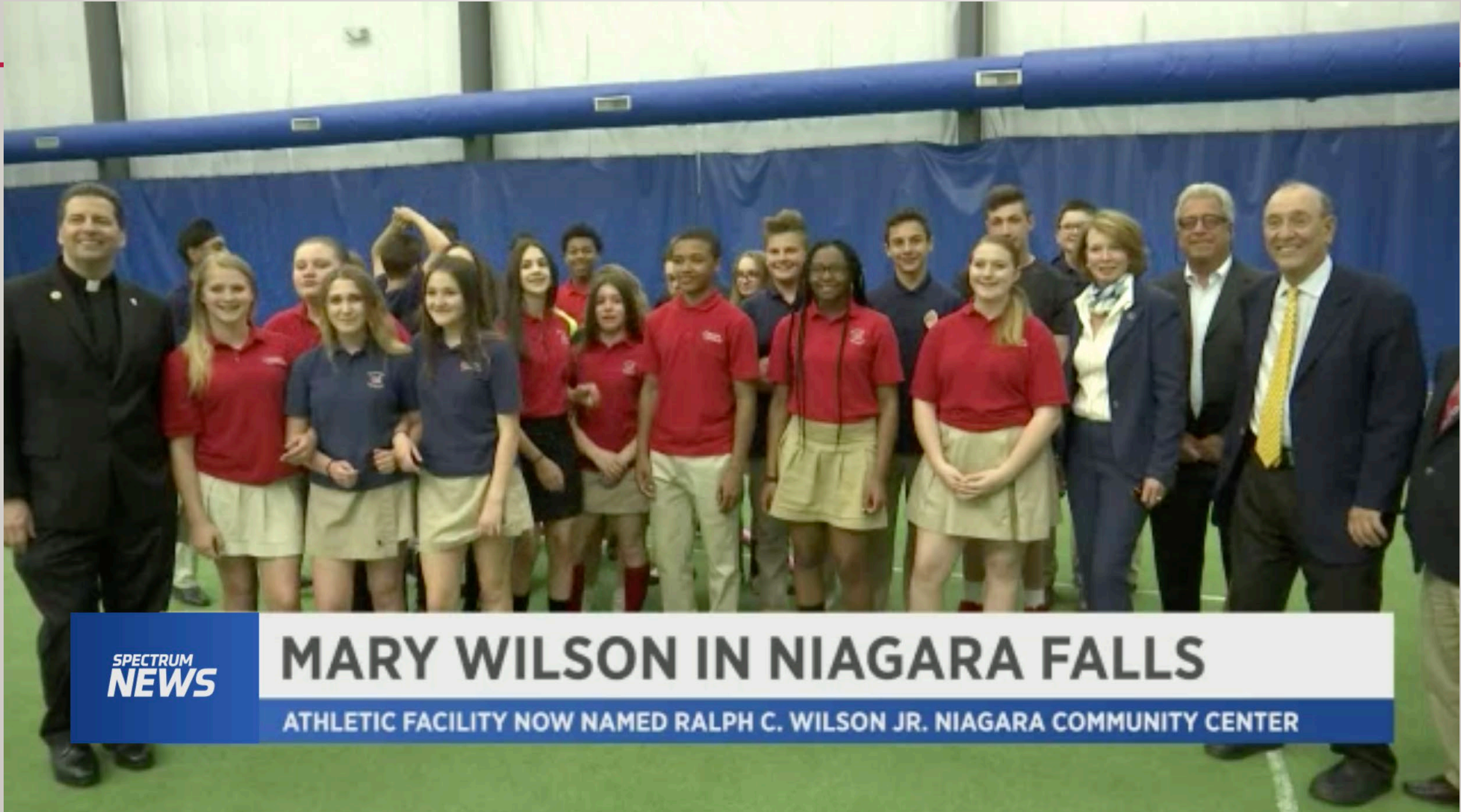


# THINGS LEARNED

## #1 THREAT TO MODERN GEO SYSTEM



# DUCTWORK PADDING



**SPECTRUM  
NEWS**

## MARY WILSON IN NIAGARA FALLS

ATHLETIC FACILITY NOW NAMED RALPH C. WILSON JR. NIAGARA COMMUNITY CENTER

# IRONY

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Terry Pegula,  
John Bon Jovi,  
Donald Trump, and the  
late Ralph Wilson Jr.....

What mattered was Gary Hall and Mary Wilson!

- Proceeds from gas asset sales found their ways back to ensure a sustainable building...gas free!

Buffalo Bills

## Trump inflated worth by \$4 billion in bid for Buffalo Bills, Cohen says

Updated Feb 28, 2019; Posted Feb 28, 2019





# CONCLUSION

- Very rewarding to be part of project like this
  - Free of charge to the community
  - The art becomes to find ways to make a difference
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THANKS TO EVERYONE WHO HELP MAKING IT HAPPEN

