

# Indian Head Park Village Infrastructure Information



**VILLAGE BOARD MEETING  
SEPTEMBER 12, 2013**

**FRANK ALONZO, VILLAGE ADMINISTRATOR  
BRIAN BAILEY, PUBLIC WORKS TRUSTEE  
AMY JO WITTENBERG, PUBLIC WORKS TRUSTEE**

# Project Goals:

## Identify & Prioritize Infrastructure Needs In IHP

- Collect data to understand the short and long-term infrastructure needs in the Village to facilitate discussion regarding these needs with the residents of Indian Head Park.
- Analyze and present data to enable the prioritization of these short and long-term needs across the infrastructure in Indian Head Park with Village Administration and IHP residents.
- Understand the financial and human resources needed in the short and long-term to update and optimize our infrastructure in IHP.
- Discuss alternatives for funding and scheduling the completion of these projects.

# Why Establish A Formal Plan

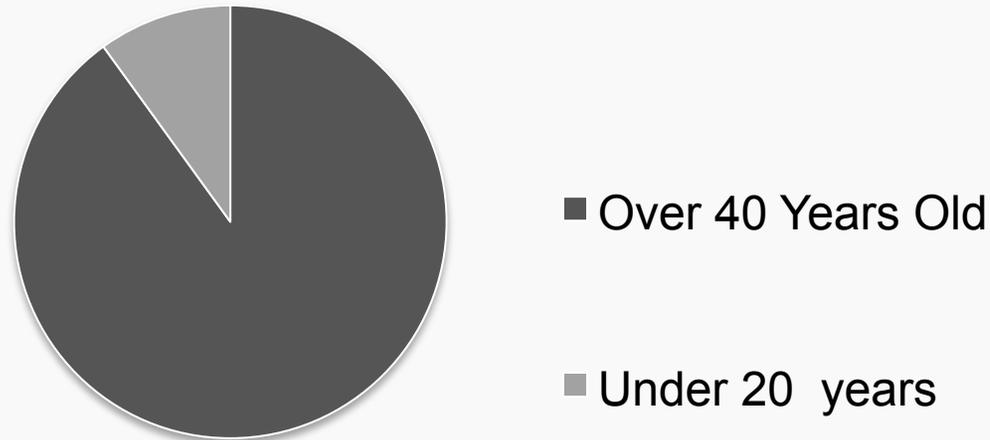
- A short and long-term capital infrastructure plan is the most effective way to organize all of our infrastructure needs.
- The plan will focus the Village to assess its current infrastructure, prioritize what needs to be fixed, and analyze how the cost of fixing the infrastructure will affect the village.
- Because of the economic downturn and budget limitations, the Village has not aggressively managed the replacement and updating of its water, sewer, street or general infrastructure.
- We must analyze, review and come to conclusions on investing in our infrastructure so that we can provide Village services for years to come.

# Assessing the Infrastructure – Water/Sewer

- Water Infrastructure Facts:

- Village has 16.22 miles (85,641 feet) of water main infrastructure
- 90% of water mains (14.6 miles) are > forty (40) years old.
- 1.62 miles are < twenty (20) years old

**Miles of Watermain**



# Assessing the Infrastructure: Water/Sewer

The list below indicates areas that are most in need of repairs over the next two years:

<b>Location</b>	<b># of feet</b>	<b>Approximate Cost</b>
1. 6820 Joliet Road West to Wolf Road	800 ft	\$200,000
2. 6500 block of Blackhawk Trail	800 ft.	\$200,000
3. 6500 of Pontiac Drive	1,000 ft	\$250,000
4. Shabbona Lane	1,000 ft	\$250,000
5. 1 – 130 Cascade Drive	900 ft	\$225,000

**Total Short Term Water/Sewer Capital**

**\$1,125,000**

# Water Main Breaks by Date & Location

## (3) 6500 Block of Pontiac Drive & Tecumseh Lane

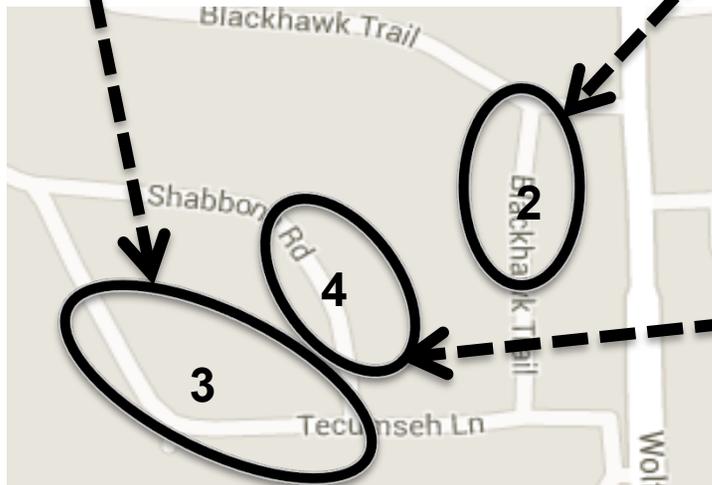
12/17/12	6588 Shabbona (corner)
12/31/09	6550 Pontiac Drive
5/19/09	11320 Tecumseh Lane
9/13/07	6543 Pontiac Drive
12/29/04	6521 Pontiac Drive
2/26/04	6521 Pontiac Drive
12/24/01	6543 Pontiac Drive
1/8/94	6529 Pontiac Drive
2/26/88	11320 Tecumseh Lane
3/12/86	6588 Shabbona (corner)
1/10/86	11320 Tecumseh Lane
4/15/81	6520 Pontiac Drive
5/19/80	11320 Tecumseh Lane

## (2) 6500 Block of Blackhawk Trail

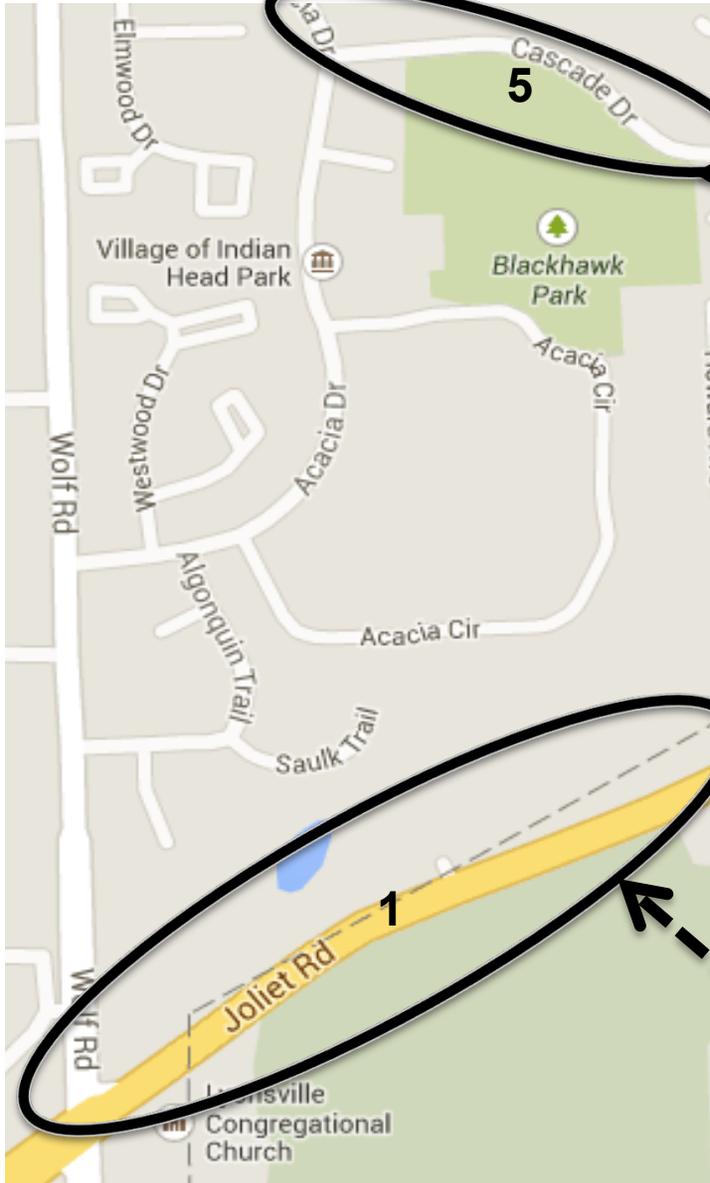
6/21/11	6501 Blackhawk Trail
10/10/03	6509 Blackhawk Trail
9/30/03	6501 Blackhawk Trail
5/15/03	6509 Blackhawk Trail
10/6/99	6501 Blackhawk Trail
5/26/99	6533 Blackhawk Trail
11/16/96	6533 Blackhawk Trail
2/5/96	6501 Blackhawk Trail
2/21/91	6533 Blackhawk Trail
11/11/89	6517 Blackhawk Trail

## (4) Shabbona Lane

12/4/12	6588 Shabbona Lane
5/20/08	6574 Shabbona Lane
2/6/07	6525 Shabbona Lane
8/2/04	6525 Shabbona Lane
5/21/00	6574 Shabbona Lane
12/30/99	6531 Shabbona Lane
2/21/97	6577 Shabbona Lane
1/12/94	6551 Shabbona Lane
3/10/90	6574 Shabbona Lane
5/14/89	6574 Shabbona Lane
1/20/81	6588 Shabbona Lane
1/29/80	6555 Shabbona Lane



## Water Main Breaks by Date & Location



### 5. 1 Cascade Drive to 130 Cascade Drive

#### Date Of Break

#### Address

12/5/09	111 Cascade Drive
1/26/06	102 Cascade Drive
12/10/05	104 Cascade Drive
1/18/05	124 Cascade Drive
12/11/99	126 Cascade Drive
11/29/94	106 Cascade Drive
11/12/93	111 Cascade Drive
7/22/91	110 Cascade Drive
11/5/90	110 Cascade Drive
10/16/88	111 Cascade Drive
2/18/83	124 Cascade Drive

### 1. 6820 Joliet Road West to Wolf Road

# Assessing the Infrastructure - Streets

- 9 Streets Need Immediate Attention over the next 12-24 months
- Replacement cost: \$ 1,059,791

• Arrowhead Trail	• Deercrest Lane	• Cascade Drive	
• Glenbrook Lane	• Ashbrook Lane	• Pembroke Drive	
• Edgebrook Lane	• Keokuk	• Buttonwood Court	

- How were streets evaluated and prioritized?
  - Pacer rating, structure, quality, use and location by the Village Engineer and Public Works Superintendent.
- 3 streets identified need repairs but were removed from list due to location and low use parameters - 186 K removed.
  - 65<sup>th</sup> Street, Eastern & Vine Street
- Many streets need crack filling and some repairs – Cost \$551,000
- Detailed List Available online on village website and copies are attached..
- **Total immediate capital need for Streets: \$1,610,791**

# Assessing the Infrastructure - General

## Short Term General Infrastructure List

Item	1-5 Years Cost
Sanitary Sewer Collection system televising	\$50,000
Ash Borer/Tree Project	\$Est. Coming
Interconnection to LHSD on Planfield Road	\$25,000
500,000 Gallon underground reservoir interior rehab	\$75,000
Install emergency general to entire pump house	\$100,000
Instituform line in sanitary sewer main that flows	\$100,000
Sanitary sewer manhole rehab	\$15,000
Laptop computer for Sanitary & Water Dept	\$7,000
Drainage Improvement surroundings 500k gallon	\$20,000
Pumphouse roof and soffit replacement	\$17,500
Well number 3 rehab	\$35,000
Water meter vault corrosion equipment	\$6,500
2 New IH 3 ton dump trucks	\$185,000
1 F-350 Service Vehicle	\$40,000
Paint interior of public works	\$15,000
Diesel Fuel station at Public Works	\$20,000
Road Salt Pre-Wetting System	\$17,500
Exercising 200 main line water system valves	\$20,000
Storm sewer outfall to Flagg Creek	\$200,000

# Assessing the Infrastructure - General

<b>Long-Term General Infrastructure List</b>	<b>5-10 Years</b>
<u>Item</u>	<u>Cost</u>
• Blackhawk Trail Water Main Improvement	\$594,000
• Eastgate water main	\$87,750
• Buttonwood Court Water Main Improvement	\$20,625
• Exterior rehab of 500k tank	\$75,000
• Fire Hydrant Painting (sandblast & paint 200)	\$20,000
• Pump House Interior Painting	\$20,000
• Tecumseh Lane & Pontiac Water Main	\$121,500
• Reservoir Addition	\$750,000
• Replace John Deere Tractor Series 4200	\$40,000
• Enclose Storage Bins at Public Works	\$35,000
• Heritage Center (tuck point, foundation)	\$25,000
• Village Hall Meeting Room/Admin HVAC	\$7,000
• Village Street Signs	\$22,500

# Assessing the Infrastructure - General

## Completed Projects

## Last 5 years

### Long-Term General Infrastructure List

- |   |           |
|---|-----------|
| • Rehabilitation of sanitary sewer main       | \$26,250  |
| • Sanitary Sewer main replacement Cascade Dr. | \$45,000  |
| • Cochise Drive Water Main Improvement        | \$225,000 |
| • Replace Deere 1989 Tractor                  | \$65,000  |
| • Replacement vehicle for Water Dept.         | \$40,000  |
| • Well Number 2 Wolf Road – Sealed/Removed    | \$25,000  |

- **Total of Short Term Projects General = \$948,500**
- **Total of Long-Term Projects General = \$1,818,375**
- **Total cost of completed projects = \$426,250**

# Summarizing the Costs

• Water/Sewer Infrastructure Short Term -	<b>\$1,125,000</b>
• Street Infrastructure Short Term -	<b>\$1,610,791</b>
• General Infrastructure Short Term -	<b>\$ 948,400</b>
<b>Total Capital for Short-Term Needs:</b>	<b>\$3,684,191</b>
• General Infrastructure Long-Term	<b>\$1,818.375</b>

# Next Steps:

- **Further Prioritize Short Term Needs**
  - Schedule Town Hall Meeting In October for Further Discussion with Residents and Village Administration to further prioritize the most urgent needs.
  - Identify a Phase 1 (immediate), Phase 2 (next 3 years) and Phase 3 (3-5 years)
- **Identify and Discuss Funding Options**
  - Municipal Bond Sale
  - Prepare for Referendum Next April
  - Hybrid Plan (MFT, Bond Sale & Referendum)
  - Increase revenue through sewer or water fees on a temporary basis for water main replacements and sewer projects.

# Thank You!

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- Additional information can be found on Village Web site