# VILLAGE OF POPLAR GROVE

"A Great Place to Call Home"

## VILLAGE BOARD OF TRUSTEES

## Wednesday, October 21, 2020 - 7:00 PM

200 N. Hill Street, Poplar Grove, IL 61065

## AGENDA

**CALL TO ORDER**

**ROLL CALL**

**PLEDGE OF ALLEGIANCE**

**APPROVAL OF PHONE PARTICIPATION (Roll Call)**

**APPROVAL OF AGENDA (Voice Vote)**

**APPROVAL OF MINUTES (Voice Vote)**

1. Motion to approve minutes from the September 16, 2020 and October 12, 2020 meeting.

**PUBLIC COMMENT** *Public Comment is encouraged. The Village Board will receive comments from the public, pursuant to State Statutes. Comments will be limited to five minutes on topics relating to the Village of Poplar Grove. Be further advised that matters brought up at this time may be referred to the appropriate committee or individual for further discussion or consideration.*

**ADMINISTRATION & ZONING, TRUSTEE QUIMBY**

2. Motion to approve **Ordinance 20-25** an ordinance granting a special use for solar farm with the LI, light industrial district (4324 Illinois Route 173 (East Half)
3. Motion to the Village Board approving **Ordinance 20-26** an ordinance granting a special use for a solar farm within the LI, light industrial district (4324 Illinois Route 174 (west half))
4. Motion to approve **Resolution 20-35** a resolution of the Village of Poplar Grove, Illinois temporally amending the Village of Poplar Grove employee handbook to include a families first coronavirus response act policy

**FINANCE AND PUBLIC WORKS, TRUSTEE MILLER**

5. Motion to the Village Board to approve check disbursement in the amount of $162,894.24 in AP Checks $ 9,839.51 in insurances expenses and $7,853.15 in EFTS for a total of $180,586.90
6. Motion to approve **Resolution 20-33** a resolution of the Village of Poplar Grove, Illinois to approve and authorize the Village President to execute renewal for operations management and supervision agreement for wastewater treatment plants, lift stations and water treatment plants for the Village of Poplar Grove with Test, INC
7. Motion to approve **Resolution 20-34** a resolution of the Village of Poplar Grove to procure geothechnical site exploration services for the public works building site.
8. Motion to approve **Ordinance 20-24** an ordinance of the Village of Poplar Grove, Illinois authorizing the Village to execute a promissory note evidencing an general obligation of the Village in an amount not to exceed $1,500,000.00 for the purposes of financing the construction of a new public works building and appurtenances thereto

**NEW BUSINESS**

9. Motion to approve **Resolution 20-36** a resolution of the Village of Poplar Grove, Illinois to approve and authorize the purchase and installation of a heater by Comfort Solutions Heating and Air Conditioning and authorize the Village President to execute an agreement with Comfort Solutions Heating and Air Conditioning
10. Motion to approve **Resolution 20-37** a resolution of the Village of Poplar Grove, Illinois to authorize an emergency purchase of a 6" legend "I" version blower for the wastewater treatment facility in the amount of $5,245.00
11. Motion to approve **Resolution 20-38** a resolution of the Village of Poplar Grove, Illinois to approve an authorize the Village President to execute a renewal agreement with Illinois Counties Risk Management Trust to supply worker's compensation and liability insurance
12. Motion to approve **Ordinance 20-27** an ordinance of the Village of Poplar Grove Authorizing the Disposal of certain personal property owned by the Village of Poplar Grove

**GOOD OF THE VILLAGE**

**13. Trick or Treating - Saturday October 31, 2020 4:00 pm - 7:00 pm**
**Election Day - Tuesday November 3, 2020 6:00 am - 7:00 pm**
Administration and Zoning - Monday November 9, 2020 - 6:30 pm
Finance and Public Works - Monday November 9, 2020 - 6:30 pm
Board of Trustees Wednesday November 18, 2020 - 7:00 pm

**ADJOURNMENT (Voice Vote)**

KJA 10/19/2020

# VILLAGE OF POPLAR GROVE

"A Great Place to Call Home"

## VILLAGE BOARD OF TRUSTEES

## Wednesday, September 16, 2020 - 7:00 PM

200 N. Hill Street, Poplar Grove, IL 61065

## MINUTES

**CALL TO ORDER**
Meeting called to order by President Costanza 7:01 pm

**ROLL CALL**
PRESENT
President Owen Costanza
Finance Trustee Eric Miller
Admin Trustee Ron Quimby
Trustee Jeff Goings
Trustee Ed Wethington (on phone)
Trustee David Allgood
Trustee James Wehrle
Attorney Roxanne Sosnowski
Attorney James Kane
Treasurer Carina Boyd
Public Works Director Mitch Hilden
Engineer Chris Dopkins

**PLEDGE OF ALLEGIANCE**

**APPROVAL OF PHONE PARTICIPATION (Roll Call)**
Motion made by Trustee Goings, Seconded by Trustee Wethington.
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington
Ed Wethington was approved to attend the meeting by phone.

**APPROVAL OF AGENDA (Voice Vote)**
Motion made by Finance Trustee Miller, Seconded by Trustee Goings.
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington

Motion made by Finance Trustee Miller, Seconded by Trustee Wethington to amend the agenda to move agenda item 4 to after agenda item 6.
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington

**APPROVAL OF MINUTES (Voice Vote)**

1. Motion to approve the August 19, 2020 board minutes
   Motion made by Trustee Goings, Seconded by Finance Trustee Miller.
   Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington

**PUBLIC COMMENT** *Public Comment is encouraged. The Village Board will receive comments from the public, pursuant to State Statutes. Comments will be limited to five minutes on topics relating to the Village of Poplar Grove. Be further advised that matters brought up at this time may be referred to the appropriate committee or individual for further discussion or consideration.*

no public comment

**NEW BUSINESS**

2. Motion to approve Resolution 20-29 a resolution of the Village of Poplar Grove to appoint an individual to fill a vacancy in the off of trustee
   Motion made by Finance Trustee Miller, Seconded by Admin Trustee Quimby.
   Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington

3. Motion to approve **Resolution 20-30** a resolution of the Village of Poplar Grove appointing individuals to fill a vacancy in the Planning and Zoning Committee

   Motion made by Finance Trustee Miller, Seconded by Admin Trustee Quimby.
   Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington
   Motion made by Admin Trustee Quimby, Seconded by Finance Trustee Miller to amend resolution to change James to Jason.
   Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington

4. Swearing in of David Allgood and James Wehrle for Trustee
   Clerk Anderberg swore in new Trustees Allgood and Wehrle
5. Swearing in of Jason James Vodnansky and Dan Cheek for Planning and Zoning Commission
6. Motion to approve Resolution 20-32 a Resolution of the Village of Poplar Grove, Illinois approving the annual audit for fiscal year May 1, 2019 - April 30, 2020

Motion made by Finance Trustee Miller, Seconded by Admin Trustee Quimby.
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington Trustee Wehrle Abstain: Trustee Allgood
Jennifer Martin presented that Audit. The Village had two items on the management letter that need to be addressed. No major issues with the audit and The Village gained to highest marking that can be gained.

Clerk Anderberg swore in new Commissioners Jason Vodnasky and Dan Cheek.

7. motion to approve commercial electricity agreement bids, Rock River Energy
Motion made by Finance Trustee Miller, Seconded by Admin Trustee Quimby.
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington, Trustee Allgood, Trustee Wehrle
Chad Hickman presented the Village's commercial electricity bid for the Village.
Motion made by Finance Trustee Miller, Seconded by Admin Trustee Wethington to amend the motion to approve contract with Direct Energy for 3 years.
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington Trustee Allgood, Trustee Wehrle
President Costanza would like to see if a1 year contract due to being a election year for the Village President.
Motion made by Finance Trustee Miller, Seconded by Trustee Allgood to amend the motion to approve the contract with AEP for 1 year.
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington, Trustee Allgood, Trustee Wehrle

8. Motion to approve Resolution 20-31 a resolution of the Village of Poplar Grove to award construction contract for main and Washington improvements
Motion made by Finance Trustee Miller, Seconded by Trustee Goings.
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington, Trustee Allgood, Trustee Wehrle

**ADMINISTRATION & ZONING, TRUSTEE QUIMBY**

9. Motion to approve **Ordinance 20-21** an ordinance of the Village of Poplar Grove amending section 6-2-6 and 6-2-4-5A of the Village of Poplar Grove code of ordinances regarding the combined waterworks and sewerage system
Motion made by Admin Trustee Quimby, Seconded by Finance Trustee Miller.
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington, Trustee Allgood, Trustee Wehrle

**FINANCE AND PUBLIC WORKS, TRUSTEE MILLER**

10. Discussion and possible recommendation to the Village board to approve check disbursement in the amount of $107,098.10 in in AP checks, $13,001.79 in Insurance Expense checks, and $7,853.15 in EFTS for a total of $127,953.04

Motion made by Admin Trustee Quimby, Seconded by Finance Trustee Miller.
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington, Trustee Allgood, Trustee Wehrle

11. Motion to approve **Ordinance 20-22** an ordinance of the Village of Poplar Grove, Illinois adopting local coronavirus urgent remediation emergency support program financial support conditions and certifications
Motion made by Finance Trustee Miller, Seconded by Trustee Allgood
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington, Trustee Allgood, Trustee Wehrle

12. Motion to approve **Resolution 20-28** a resolution of the Village of Poplar Grove resolving to award the contract for phase II clean and televise sanitary sewer.
Motion made by Finance Trustee Miller, Seconded by Trustee Goings.

Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington, Trustee Allgood, Trustee Wehrle

**GOOD OF THE VILLAGE**

13. Planning and Zoning Meeting - Wednesday September 23, 2020 6:00 pm
**Recycling Event Saturday September 26, 2020- Sunday September 27, 2020 8:00 am-7:00 pm**
Administration and Zoning-Monday October 12, 2020 6:30 pm
Finance and Public Works-Monday October 12, 2020 6:30 pm
Board of Trustees - Wednesday October 21, 2020 7:00 pm
**Trick or Treating - Saturday October 31, 2020 4:00 pm -7:00 pm**

**EXECUTIVE SESSION**

14. Motion to go into closed session pursuant to 5 ILCS 120/2 (c) (5) purchase of real estate and Personnel exempt pursuant to 5 ILCS 120/2(c)(1).
Motion made by Finance Trustee Miller, Seconded by Admin Trustee Quimby.
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Wethington Trustee Allgood, Trustee Wehrle
Board went into executive session at 7:40 pm
Board came out of executive session at 8:52 pm
PRESENT
President Owen Costanza
Finance Trustee Eric Miller
Admin Trustee Ron Quimby
Trustee Jeff Goings
Trustee David Allgood
Trustee James Wehrle
Clerk Karri Anderberg

Atttorney Roxanne Sosnowski
Attorney James Kane
Public Works Director Mitch Hilden
Treasurer Carina Boyd

**ADJOURNMENT (Voice Vote)**

Motion made by Trustee Goings, Seconded by Admin Trustee Quimby.
Voting Yea: Finance Trustee Miller, Admin Trustee Quimby, Trustee Goings, Trustee Allgood, Trustee Wehrle
Meeting Adjourned at 8:52 pm

# VILLAGE OF POPLAR GROVE

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## VILLAGE BOARD OF TRUSTEES

**Monday, October 12, 2020 - 7:00 PM**

200 N. Hill Street, Poplar Grove, IL 61065

## MINUTES

**CALL TO ORDER**
Meeting called to order by President Costanza at 7:07 pm

**ROLL CALL**
PRESENT
President Owen Costanza
Finance Trustee Eric Miller
Admin Trustee Ron Quimby
Trustee Jeff Goings
Trustee Ed Wethington
Trustee David Allgood
Trustee James Wehrle
Attorney Roxanne Sosnowski
Clerk Karri Anderberg
Public Works Director Mitch Hilden
Treasurer Carina Boyd

**APPROVAL OF PHONE PARTICIPATION (Roll Call)**

**APPROVAL OF AGENDA (Voice Vote)**
Motion made by Trustee Wethington, Seconded by Trustee Goings. Motion passed by voice vote.

Motion made by Finance Trustee Miller, Seconded by Admin Trustee Quimby to amend item 1. to add in the amount of $67,500. Motion passed by voice vote.

**PUBLIC COMMENT** *Public Comment is encouraged. The Village Board will receive comments from the public, pursuant to State Statutes. Comments will be limited to five minutes on topics relating to the Village of Poplar Grove. Be*

*further advised that matters brought up at this time may be referred to the appropriate committee or individual for further discussion or consideration.*

no public comment

**NEW BUSINESS**

1. Motion to approve Ordinance 20-23 an ordinance of the Village of Poplar Grove approving agreement for the purchase of real property located at 211,215 and 217 Saratoga Lane, Poplar Grove, Illinois by the Village
   Motion made by Finance Trustee Miller, Seconded by Admin Trustee Quimby. Motion passed by voice vote.

   Motion made by Finance Trustee Miller, Seconded by Trustee Wethington to add the language under number 2 "and authorizes the Village Attorney Aaron Szeto to execute the same along with any other documents necessary to effectuate the acquisition contemplated herein" in the ordinance. Motion passed by voice vote.
   The plan is to give the land to the Belvidere Park District and then they will build a park on the property. If that falls through the Village will look at grants to build a park.

**ADJOURNMENT (Voice Vote)**

Motion made by Finance Trustee Miller, Seconded by Admin Trustee Quimby. Motion passed by voice vote.
meeting adjourned at 7:12 pm

# Memorandum

**DATE:** September 17, 2020

**TO:** Village of Poplar Grove Planning and Zoning Commission

**FROM:** Gina DelRose, Community Development Planner

**SUBJECT:** Staff advisory memo for case: 2020-05: Poplar Grove Solar, LLC, 4324 IL Route 173 (East Half)

**REQUEST AND LOCATION:**
The applicant, Poplar Grove Solar, PO Box 310, Highland Park, IL 60035, on behalf of the property owner, DYN 173, LLC (First Midwest Group), 6801 Spring Creek Road, Rockford, IL 61114, is requesting a special use to install non-building mounted solar collectors (total of 18 acres, eastern phase) for export of energy for use by an electrical utility at 4324 Illinois Route 173 within LI, Light Industrial District (Poplar Grove Zoning Ordinance Sections 8-6-11-B-2 and 8-5-7 Special Use). Part of PIN: 03-14-300-002. The property is rectangular in shape and is currently being farmed. The solar farm will be on the northeastern part of the property away from Illinois Route 173. There is a cluster of single family residential to the east and a farmstead to the northwest. Please note that this is the same special use that was requested in 2018 but was never constructed.

**BACKGROUND:**
On November 14, 2018, the Poplar Grove Village Board approved Ordinance 2018-35 rezoning the northeastern part of PIN: 03-14-300-002 to Light Industrial and Ordinance 2018-36 approving an 18 acre solar farm. Rather than asking for a second extension of the previously approved special use, the applicant has resubmitted the special use for approval. The site plan and overall request has not changed since it was previously approved in 2018. It is anticipated that the State of Illinois will be releasing more funding for renewable energy projects such as the one being proposed. In order to be prepared for potential state funding, solar projects will need to have local approval in place.

The property was annexed into the Village of Poplar Grove in 2005. Additional land uses allowed within the Light Industrial District are vehicle related sales/services, light manufacturing/industrial and wireless communication facilities by right and rail transit stations, airports/heliports and indoor warehouse/wholesale by special use. Development in the light industrial district can create 65% lot coverage, buildings can be 50 feet in height and constructed 20 feet from the side lot line and 30 feet from the rear lot line.

Although traditional development is permitted 20 feet from the eastern property line and 30 feet from the northern property line, the solar panels will be constructed a minimum of 100 feet from the eastern property line and 30 feet from the northern property line.

The special use consists of Phase I of a two phase solar farm. Each phase is approximately 18 acres. The total project encompasses an area approximately 2,215 feet wide and 600 feet deep, not including access roads and power lines. The front portion of the property will remain in agricultural production. The projects are designed to be Community Solar projects, allowing residences and businesses to subscribe to use the electricity. The projects will be 2 MW AC each in size and are anticipated to power 600-800 homes. Once the projects are completed,

there will be minimal traffic generated from the routine monitoring and maintenance of the property.

The solar panels will be up to 12 feet in height and mounted into the ground on poles, not concrete pads. The panels will be configured in a north-south layout with the capability to rotate in order to track the sun throughout the day. There will be an anti-reflective coating placed on the panels to help minimize glare. Due to the mounting style of the solar panels, there will be minimal lot coverage; however, there will be a 6'x10' concrete pad for the transformer associated with each project as well as a set of three onsite poles that will convey power lines to the utility owned poles. Electrical collection lines will be underground and brought together for connection to the transmission network rather than directly to a substation. Security lighting is not anticipated to be used; there will, however, be a 7' chain link fence and warning signs around the perimeter of the projects.

The project has a 25-year design life and all equipment (above and below ground) will be required to be removed and the site restored per the approved decommissioning plan. The projects will be required to be landscaped with low maintenance plants that act as natural pollinators. These plantings shall be reviewed and approved by the Boone County Conservation District.

According to the Natural Resources Inventory Report (NRI) #1594 there is a drainage way on the western half of the property and agricultural drainage tiles that serve the properties to the west and north that traverse the western half of the subject property (Case 2020-06).

The adjacent property owners were sent certified notices on September 2, 2020 and the green cards have been returned. The request was published in the Boone County Journal on September 4, 2020. The appropriate village staff and other agencies were notified on September 2, 2020. No objections from the agencies were received.

**FINDINGS OF FACT:**
Per Section 8-5-7(D) of the Village of Poplar Grove Zoning Ordinance, the criteria for granting a Special Use Permit are as follows:

**A.** **Findings: The establishment, maintenance or operation of the special use would not be detrimental to or endanger the public health, safety, morals, comfort or general welfare.**

There are many kinds of solar farms, each having their own set of environmental impacts. Solar farms can be thousands of acres in size. Some require that all vegetation be removed which impacts wildlife by loss of habitat; some are constructed on cement pads that increase surface water run-off; some radiate heat and some feed into a tower that can be dangerous for birds and insects. Phase I of the proposed solar farm will be 18 acres in size, have adequate vegetation, create minimal surface water run-off and is not anticipated to create a noticeable amount of heat or glare.

Considering the zoning of the property and the potential development that is permitted, the solar farms, with proper conditions of approval, would have less of an impact to neighboring properties. An increased setback is being utilized along the east property lines to provide an additional buffer between the projects and nearby residences. The addition of pollinating plants will benefit the community while providing a low maintenance vegetative cover rather than grass seed which can become unsightly.

B. **Findings: The special use would not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted or substantially diminish or impair property values within the neighborhood.**

Industrial and limited commercial development is already permitted. The solar farm will be required to adhere to all local, state and federal regulations in addition to the conditions of approval. The height (and potential shadow casting) and lot coverage of the solar panels are less than the amount permitted while the setbacks are greater. The amount of traffic generated by the solar farm is less than that created by an industrial or commercial development.

Although the NRI report indicated agricultural drainage tiles on the western half of the property, through the special use process, a study can be conducted on the eastern half of the property. This will ensure that any potential agricultural drainage tiles are discovered and can now be protected.

C. **Findings: The establishment of the special use will not impede the normal or orderly development and improvements of the surrounding property for uses permitted in the district.**

The solar farms are not anticipated to impact the ability of the surrounding properties to be used agriculturally. The addition of pollinators is intended to be a benefit to the agricultural community. The solar farm is not anticipated to create additional heat, odor, light or noise that would infringe on the nearby residents' enjoyment of their properties.

D. **Findings: Adequate utilities, access roads, drainage and/or necessary facilities will be provided.**

The property is located along Illinois Route 173 which can adequately handle construction equipment and increased traffic during construction. Access roads, drainage and additional power lines and power poles will be installed by the developer in accordance to the project's needs and submitted narrative and site plan.

E. **Findings: Adequate measures have been taken to provide ingress or egress so designed as to minimize traffic congestion in the public streets.**

Once construction of the special use is complete, there will be minimal traffic generated by the routine maintenance and monitoring of the site. An access road will be wide enough to handle two-way traffic, for instance, when multiple vehicles are present.

F. **Findings: The special use shall, in all other respects, conform to the applicable regulations of the districts in which it is located.**

The special use will be required to conform to all the applicable regulations of the Zoning Ordinance, the Subdivision Ordinance, all other regulations and to any conditions of approval enacted by the Village Board.

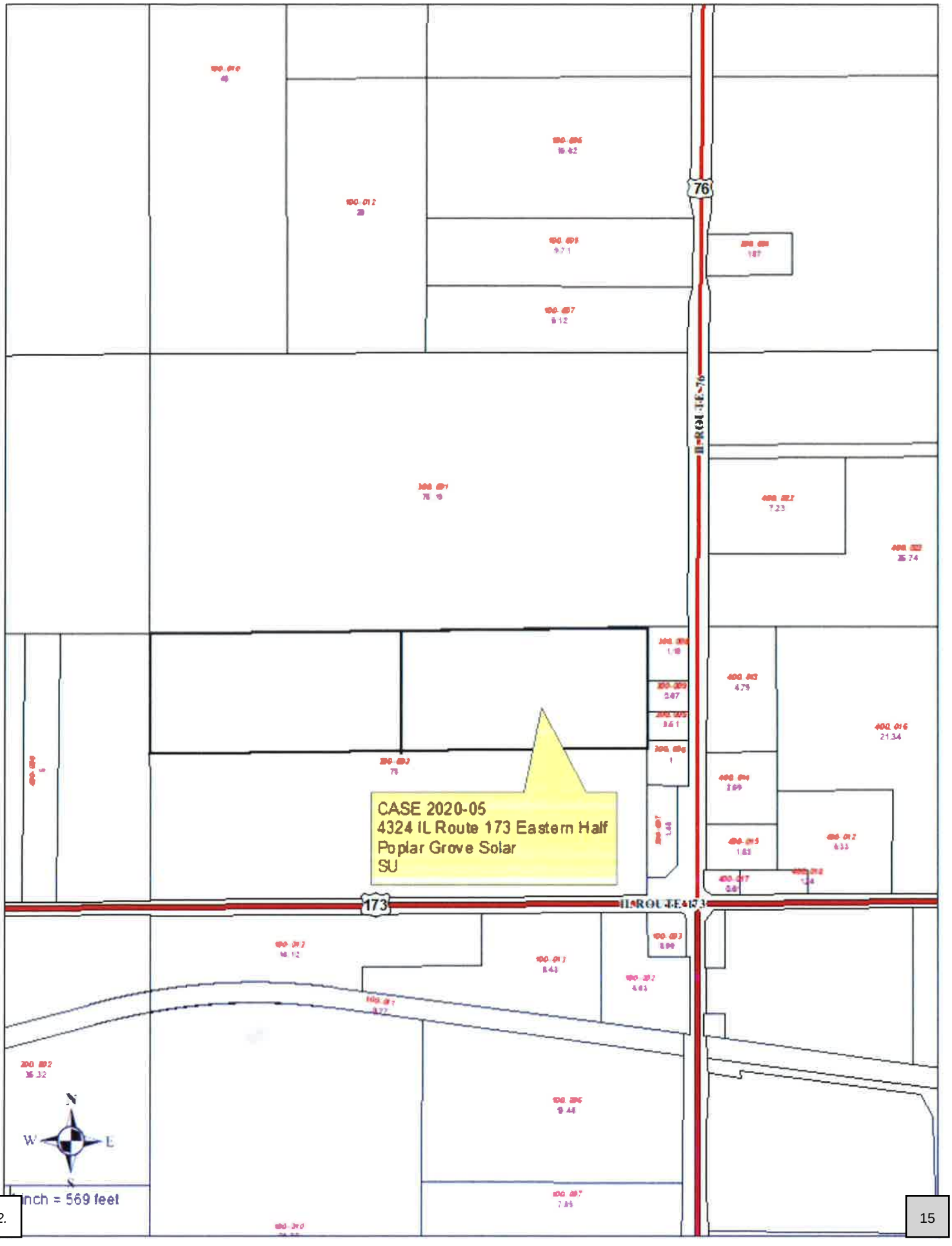
**RECOMMENDATION:**
The planning staff recommends approval of case 2020-05 subject to following conditions:

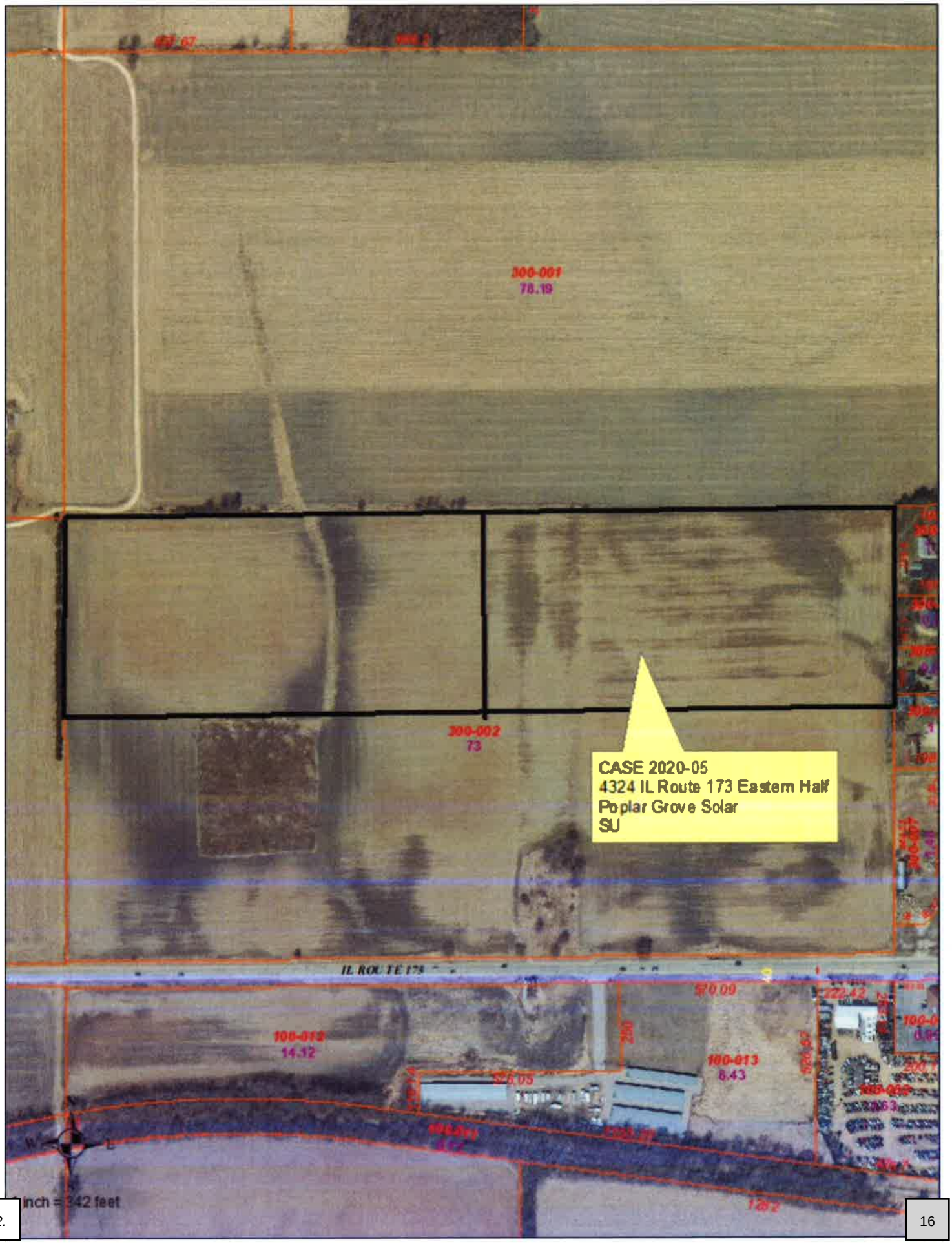
1. Substantial compliance with the narrative and site plan submitted, unless otherwise noted.
2. All vegetation shall be approved by the Boone County Conservation District. Pollinator friendly vegetation shall be used.
3. A decommissioning and reclamation plan shall be submitted to and approved by the Village of Poplar Grove prior to the commencement of the development.
4. A surety, covering the complete execution of the decommissioning and reclamation plan for when the project ends shall be posted prior to the commencement of the development.
5. An agricultural drainage tile system survey shall be conducted prior to commencement of the project. All identified drain tile shall be protected and repaired if damaged.
6. The applicant shall provide training to Boone County Fire District 3 pertaining to the hazards in conducting fire control and extinguishment of the proposed solar system.
7. Inspection risers shall be installed between PINs: 03-14-300-001 and 03-14-300-002 and Illinois Route 173

**PLANNING AND ZONING COMMISSION/VILLAGE BOARD ACTION**
The Planning and Zoning Commission shall make and forward findings of fact as to the compliance of the proposed special use with the standards and make a recommendation to the Village Board. The Village Board shall review the findings and recommendation and may accept or reject the findings and recommendation of the Planning and Zoning Commission in whole or in part; or the Village Board may refer the matter back to the Planning and Zoning Commission for further consideration. Any approval shall be considered the approval of a unique request and not be construed as precedent for any other proposed special use.

## ATTACHMENTS

1. Location Map submitted by Planning Staff.
2. Aerial Photo submitted by Planning Staff.
3. Narrative submitted by the Applicant.
4. Site Plan submitted by the Applicant.
5. Site pictures from NRI #1594.
6. Overview and Opinion from NRI #1594.
7. Drainage way and agricultural drainage tile information from NRI #1594.
8. Letter from Boone County Health Department, Amanda Mehl, September 4, 2020.
9. EcoCat Result for IDNR Project 1900789.


CASE 2020-05
4324 IL Route 173 Eastern Half
Poplar Grove Solar
SU
76
173
ROUTE 76
ROUTE 173
N
W
E
S
inch = 569 feet


300-001
78.19
300-002
73
CASE 2020-05
4324 IL Route 173 Eastern Half
Poplar Grove Solar
SU
IL ROUTE 173
100-012
14.12
100-013
8.43
1 inch = 342 feet

## EXECUTIVE SUMMARY

### Poplar Grove Solar – Phase 1

Poplar Grove Solar, LLC - Phase 1 (the "Applicant") proposes to develop a community solar project approximately 2 MW AC in size, on approximately 17 acres of land located north of Illinois Route 173 and west of Fairgrounds Road in the Village of Poplar Grove, Boone County, Illinois. The Poplar Grove Solar, LLC community solar project (the "Solar Project") will be located within a portion of the parcel with PIN 03-14-300-002 (the "Project Parcel") owned by DYN 173, LLC (the "Landowner"). The Applicant is submitting this Petition for Special Use pursuant to and in compliance with the requirements set forth under Sections 8-5-4 and 8-5-7 of the Village of Poplar Grove Zoning Ordinance (the "Zoning Ordinance"), as amended by the Applicant's approved Text Amendment Submitted July 24th, 2017.

The proposed Solar Project will serve the electricity needs of 300 to 400 homes. Once installed and commissioned, the Solar Project will be continuously monitored, and engineers and maintenance technicians will visit the Solar Project a few times a year for routine maintenance and any required repairs. Post-construction, the Solar Project will generate minimal traffic, with visits to the site occurring solely in connection with routine and required maintenance.

### About Trajectory Energy Partners, LLC

Poplar Grove Solar, LLC is a wholly owned indirect subsidiary of Trajectory Energy Partners, LLC. Trajectory Energy Partners, LLC brings together communities, organizations, and land owners to develop clean energy projects that are integrated into the local landscape and community.

### The Future Energy Jobs Act and Community Solar Projects

Under Illinois Public Act 99-0906, commonly known as the Future Energy Jobs Act ("FEJA"), the Illinois Power Agency is currently promulgating a set of regulations and incentives to allow the creation of such community solar projects. The Solar Project is intended to be a community solar project under FEJA, which would allow residential and commercial customers to subscribe to the Solar Project. The Solar Project will support FEJA's goals of increasing the adoption and availability of renewable energy to Illinois residents and businesses.

### Economic and Environmental Benefits

The Solar Project will provide economic and environmental benefits to the community. Poplar Grove residents and businesses will have an opportunity to subscribe to the Solar Project. These subscribers will support clean energy in their community while benefiting from savings

on their electricity bills. In addition, the Solar Project will create new tax revenues for the community and generate economic activity through local construction, materials, and services.

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II. PROJECT DESCRIPTION ..... 4

**Exhibit A**: Project Location

**Exhibit B**: Site Plan

**Exhibit C**: Zoning Diagram

**Exhibit D**: EcoCAT Consultation

**Exhibit E**: Impacts Study

Trajectory Energy Partners

# I. APPLICANT INFORMATION

The Applicant is a limited liability company, a wholly owned indirect subsidiary of Trajectory Energy Partners, LLC. Jonathan Carson is an Authorized Representative of the Applicant.

Applicant:

Poplar Grove Solar, LLC
c/o Trajectory Energy Partners, LLC
Attn: Jon Carson
P.O. Box 310
Highland Park, IL 60035
(312) 882-3713
legal@trajectoryenergy.com

Landowner:

DYN 173, LLC
c/o First Midwest Group
Attn: Marvin L. Keys
6801 Spring Creek Road
Rockford, IL, 61114
(815)-229-3000

# II. PROJECT DESCRIPTION

## a. General Description

The Solar Project will be located on approximately 17 acres in the Village of Poplar Grove, Section 14, Township 45 North, Range 3, Boone County, Illinois, Property Index Numbers: 03-14-300-002. See Exhibit A: Project Location.

Legal Description

PIN 03-14-300-002:

THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 14; ALSO ALL THAT PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 23, LYING NORTH OF THE RIGHT OF WAY OF THE CHICAGO NORTHWESTERN RAILWAY COMPANY, EXCEPTING FROM THE ABOVE ONE ACRE IN SAID NORTHWEST QUARTER OF SECTION 23, DEEDED TO WAYNE WHEELER, AS APPEARS OF RECORD IN BOOK 94 OF DEEDS, PAGE 533, BOONE COUNTY RECORDS, AND EXCEPTING 4.84 ACRES IN THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 14, DEED TO FLOYD NEWHOUSE, AS APPEARS OF RECORD IN BOOK 103 OF DEEDS, ON PAGE 444 ALSO EXCEPTING "TRACT A" CONTAINING .971 ACRES AND "TRACT B" CONTAINING 4.856 ACRES IN SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 14 DEED TO FLOYD NEWHOUSE AND WIFE, AS APPEARS OF RECORD IN BOOK 111 OF DEEDS PAGE 359 BOONE COUNTY RECORDS AND ALSO EXCEPTING THAT PART OF THE NORTHWEST QUARTER OF SAID SECTION 23 DEED TO JOHN BULLARD AND

WIFE, AS APPEARS OF RECORD IN BOOK 106 OF DEEDS, ON PAGE 504 BOONE COUNTY RECORDS ALL OF THE ABOVE SITUATED IN TOWNSHIP 45 NORTH, RANGE 3 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN BOONE COUNTY, STATE OF ILLINOIS AND MORE PARTICULARLY DESCRIBED AS FOLLOWS TO WIT:

PART OF THE SOUTHWEST QUARTER (1/4) OF SECTION FOURTEEN (14), TOWNSHIP FORTY-FIVE (45) NORTH, RANGE THREE (3) EAST OF THE THIRD (3RD) PRINCIPAL MERIDIAN, BOUNDED AND DESCRIBED AS FOLLOWS, TO WIT: BEGINNING AT THE SOUTHWEST CORNER OF THE SOUTHWEST QUARTER OF SAID SECTION; THENCE NORTH 00°36'51" EAST, ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 1326.34 FEET TO
THE NORTH LINE OF THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SAID SECTION; THENCE SOUTH 89°49'33" EAST, ALONG THE NORTH LINE OF THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SAID SECTION, 2400.02 FEET TO THE WEST LINE OF TRACT "A" OF PREMISES CONVEYED ALLAN B. WARES TO FLOYD NEWHOUSE AND SHIRLEY NEWHOUSE BY QUIT CLAIM DEED DATED DECEMBER 26, 1952 AND RECORDED IN BOOK 111 OF DEEDS ON PAGE 359 IN THE RECORDER'S OFFICE OF BOONE COUNTY, ILLINOIS; THENCE SOUTH 00°38'50" WEST, ALONG THE WEST LINE OF TRACT "A" OF SAID PREMISES SO CONVEYED TO NEWHOUSE AS AFORESAID AND THE SOUTHERLY EXTENSION THEREOF, 1324.88 FEET TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION; THENCE NORTH 89°51'38" WEST, ALONG THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION, 2399.26 FEET TO THE POINT OF BEGINNING. SUBJECT TO THE RIGHTS OF THE PUBLIC AND STATE OF ILLINOIS IN AND TO THOSE PORTIONS THEREOF TAKEN, USE OR DEDICATED FOR PUBLIC ROAD PURPOSES. SITUATED IN THE COUNTY OF BOONE AND STATE OF ILLINOIS

The project is located on the portion of the Project Parcel that is currently zoned as Light Industrial District.

### b. Site Plan and Phases

A Site Plan detailing the placement of the solar arrays and proposed access is included in this application. The proposed Solar Project is indicated on the Site Plan as Phase 1. The Applicant is concurrently submitting a Special Use Application for Phase 2. Each Phase contains a single 2MW AC community solar farm. Pursuant to the regulations and policies implementing FEJA, a single parcel may contain up to two 2MW AC community solar farms. The incentives required to construct each community solar farm are intended to be allocated by lottery, and thus each Phase may be awarded such incentives separately, and if both receive incentives, at different times. Thus, the Applicant may construct Phase 2 prior to Phase 1, or may only construct one of the two Phases if incentives are not available for both Phases. See Exhibit B: Site Plan.

### c. Equipment Detail

The Solar Project will consist of equipment to generate electricity from solar energy, including rows of photovoltaic cell panels on a single-axis tracking system, racking, inverters, and perimeter fencing. Support poles will be driven into the ground. Transformers and other electrical equipment will be located on one to two small concrete pads measuring approximately 6' x 10' for each Phase. Panels will be installed in a north-south configuration on

a rotating mounting system that will track the sun throughout the day. The panels will be designed with an anti-reflective coating to minimize glare from the Solar Project and prevent impacts to avian wildlife including birds and bats. The Solar Project is intended to operate for a period of at least 25 years and will be constructed with solar panels and other electrical equipment with long-term warranties and very low expected rates of replacement.

The components of the Solar Project will comply with the current edition of the National Electric Code and be UL listed or meet a comparable safety standard. The Solar Project's electrical collection lines will be underground and then brought together for connection to the transmission network rather than directly to a substation. For each Phase, three on-site poles will convey powerlines to utility-owned poles and on to a proposed interconnection point within the Solar Project's footprint. See Exhibit B: Site Plan.

### d. Fencing, Access, Drainage and Landscaping

Each Phase of the Solar Project will be enclosed by a 7' chain-link fence, as required by the National Electrical Code. The Solar Project will be accessed from IL 173 along a dedicated access road and through a gated entrance with a maximum width of 24'.

Landscaping plans include plantings that buffer the residential parcels to the east within the proposed 100' setback along the eastern edge of the Solar Project. Vegetation under and around the Solar Project will be maintained by periodic mowing, inspections, and weed management as appropriate. The Solar Project will add cover vegetation to the site that traditionally been utilized for row crop. In doing so, drainage and runoff is expected to improve through the improved absorption of rain and melting snow and ice. No impervious surfaces will be added to Parcel, with the exception of one to two small concrete pads measuring roughly 6' x 10' for each Phase. The Solar Project will adhere to the Illinois Environmental Protection Agency (IEPA) Construction Stormwater Permit Requirements.

In addition, the Solar Project will work with the Village and the Landowner to specify low-growing grasses or pollinator-friendly plantings to be planted as a buffer around the Solar Project. The pollinator-friendly species are intended to facilitate local pollinator habitat, improve water infiltration, prevent compaction, and control erosion while increasing microbial activity and production of organic matter.

### e. Total Height of Solar Arrays and Other Structures

The total overall height of the facility will not exceed 12'.

### f. Requested Duration

The Applicant will not be able to move forward with constructing either Phase of the Solar Project until it has recived approval for Renewable Energy Credits. Both phases are currently on a waitlist for such Renewable Energy Credits (REC) and the Illinois Power Agency is expected to release additional information on additional REC awards in the future.

### g. Proposed Setback Dimensions

See Exhibit B: Site Plan

TABLE 1: SETBACK TABLE

| | Village Requirement | Proposed Setbacks |
|---|---|---|
| Light Industrial: Front | 30' | > 650' |
| Light Industrial: Western Side | 20' | > 700' |
| Light Industrial: Eastern Side | 20' | 100' with buffer plantings proposed. |
| Light Industrial: Rear | 30' | 30' |

See Exhibit B: Site Plan.

### h. Environmental Impact

The Illinois Department of Natural Resources' Ecological Compliance Assessment Tool (EcoCAT) consultation has been terminated with respect to the Solar Project site. See Exhibit D: EcoCAT Consultation.

The Solar Project will comply with all local, state, and federal environmental regulations. A Natural Resource Inventory (NRI) has been requested from the Boone County Soil and Water Conservation District.

The Solar Project shall be constructed, operated and maintained in compliance with federal, state, and local laws, including with respect to the removal and disposal of solid waste generated thereby. The Solar Project will also be maintained in a clean and neat manner, and any such solid waste will be removed as appropriate, with all costs borne by the Applicant.

### i. Ingress and Egress During Construction and Thereafter

One Improved, gravel access road will provide ingress and egress from the Solar Project site to IL 173 both during construction and thereafter. The applicant will use a watering truck as necessary to control dust during construction. See Exhibit B: Site Plan.

### j. Construction and Maintenance; Traffic

The active construction period for each Phase of the Solar Project is expected to begin at the earliest in Spring 2021 and the construction of each Phase will last approximately 3 to 6

months. Construction will require trucks no larger than a typical 18-wheeler to deliver materials to the site, and onsite equipment will be used to drive pilings into the ground and install the panels, supports, and tracking equipment. Construction workers and personnel will arrive in pick-up trucks. Typically, solar installations do not require the use of cranes. Construction hours will follow a typical daily construction schedule.

The operations and maintenance of the Solar Project will generate minimal traffic. Because the Solar Project will be continuously monitored electronically off-site, engineers and maintenance technicians will visit the Solar Project a few times a year for routine maintenance and any repairs. Landscaping will be managed regularly during the growing season as described below.

### k. Public Road Routes

The public road route will utilize IL 173, which is paved and designed for construction traffic.

### l. Warning Signage

The Applicant will place signs warning of high voltage at the entrance to the solar facility as well as on the base of all pad mounted transformers. In addition, the Solar Project will prominently display a sign providing emergency contact information including the name of the solar facility, address, and the emergency contact telephone numbers for the Solar Project and the Operations and Maintenance contractor.

### m. Conformance to Industry and Code Standards/Engineer Certification

The Solar Project will comply with all applicable local and county codes for the electrical, mechanical, and structural components of the facility.

### n. Lighting

The Solar Project does not require lighting. No lighting will be installed.

### o. Decommissioning

Upon the cessation of operations of the Solar Project, the Applicant will remove the installed Solar Project equipment and restore the site pursuant to its obligations to the Landowner, and will comply with the requirements of any governmental agency respecting the decommissioning and reclamation obligations for the Parcel. In connection with such decommissioning, the Applicant will remove the above-ground structures as well as the installed underground electrical equipment.

### p. Property Value Impacts

Property valuation experts from CohnReznick have studied the value of properties that adjoin solar farms in Illinois and Indiana and concluded that the solar farms do not adversely affect the property values in either the short or long term.

The study included solar farms in Lasalle and Winnebago Counties in Illinois; as well as Elkhart, Lake, Madison, Marion and Porter Counties in Indiana. Experts analyzed property sale prices

and marketability of single family homes and agricultural land that adjoins solar farms and compared this data to comparable properties in the same county. The study also included interviews with county assessors and local real estate professionals, all of whom concluded that solar farms in their area had not impacted property values. Similar research has been conducted in other states across the U.S. and none of these studies have found that solar farms adversely affect nearby property values. Please see Exhibit E: Impacts Study.

## q. Owners of Record

The following landowners are adjacent to the Project Parcel:

| PIN# | Name/Trust No. | Street | City | Zip |
|---|---|---|---|---|
| 03-15-400-011 | LINDBERG, DONALD A TR | 3952 IL ROUTE 173 | Caledonia | 61011 |
| 03-15-400-010 | LINDBERG, DONALD A TR | 3952 IL ROUTE 173 | Caledonia | 61011 |
| 03-14-300-001 | LINDBERG, DONALD A TR | 3952 IL ROUTE 173 | Caledonia | 61011 |
| 03-14-300-008 | MCINTYRE, MICHAEL S & JANE A (HAAS) | 15302 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-009 | RABE, DALE A & CANDY E | 15270 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-005 | RABE, BENJAMIN | 15246 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-006 | GUTHRIE, GLENN S & COLLEEN | 15214 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-007 | DELIJAHN INCORPORATED | PO BOX 305 | Caledonia | 61011 |
| 03-23-100-003 | NEBIU, ERGEN & NADRIT & MURAT | 4481 IL ROUTE 173 | Caledonia | 61011 |
| 03-23-100-002 | GRACEFFA, PETER J | 4557 IL ROUTE 173 | Caledonia | 61011 |
| 03-23-100-013 | POPLAR GROVE STORAGE LLC | 6801 SPRING CREEK RD | Rockford | 61114 |
| 03-23-100-012 | DYN 173 LLC | 6801 SPRING CREEK RD | Rockford | 61114 |
| 03-22-200-002 | BOONE/POPLAR GROVE LLC | 6277 E RIVERSIDE BLVD | Rockford | 61114 |

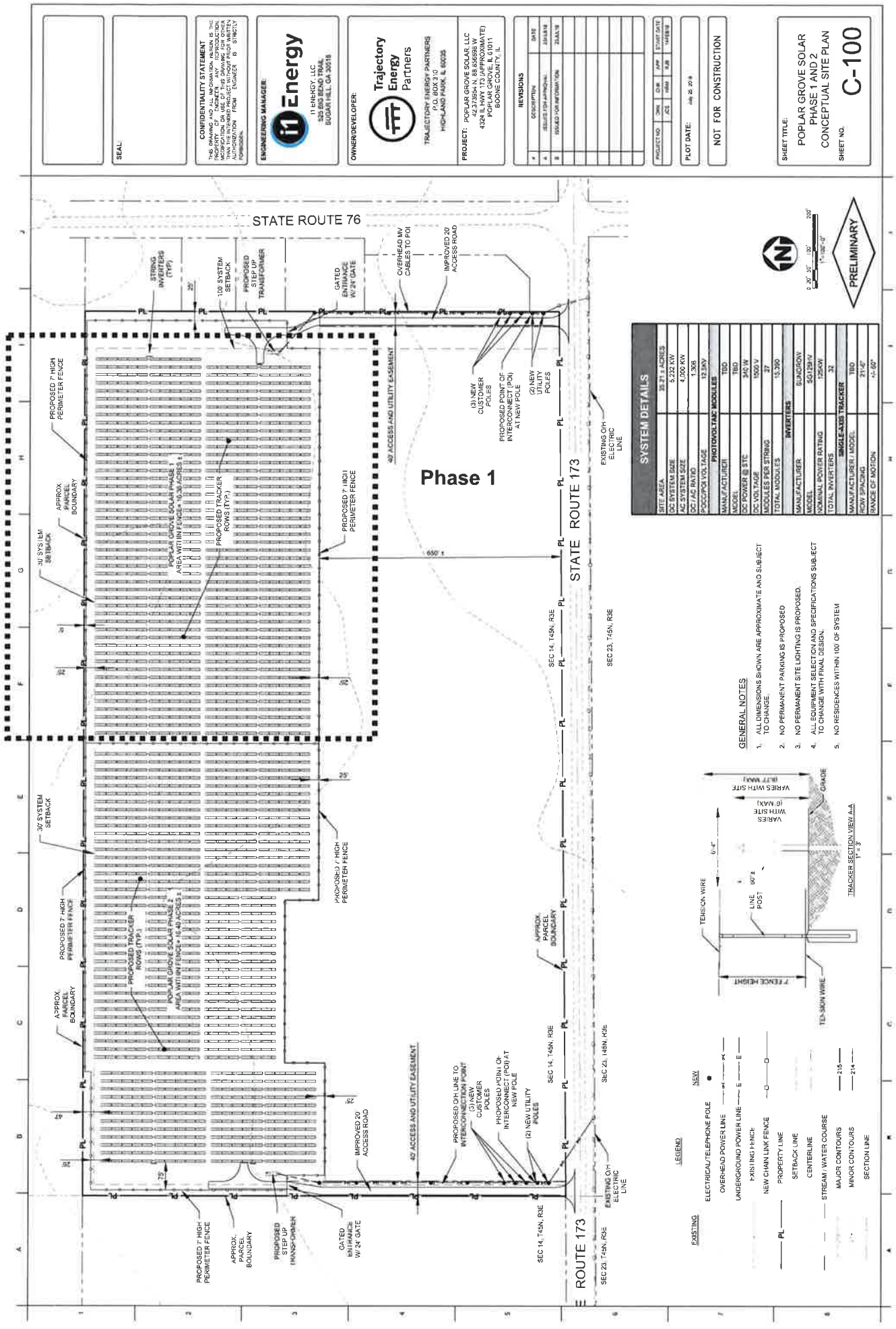
## r. Special Use for Corporations, Partnerships, and Joint Venture

a. The Applicant is not a corporation, partnership or joint venture.
b. The Applicant is not doing business under an assumed name.
c. The Applicant is acting on its behalf.
d. Poplar Grove Solar, LLC is a wholly owned indirect subsidiary of Trajectory Energy Partners, LLC, P.O. Box 310, Highland Park, IL 60035.

## s. Special Use Fees

The Applicant has enclosed the filing fee with this application.

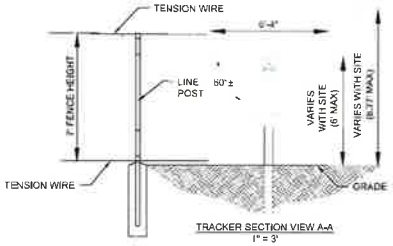
**Exhibit B**: Site Plan






LEGEND

| EXISTING | NEW |
|---|---|
| ELECTRICAL/TELEPHONE POLE | ● |
| OVERHEAD POWER LINE | OHE OHE |
| UNDERGROUND POWER LINE | E E |
| EXISTING FENCE | |
| NEW CHAIN LINK FENCE | |
| PL PROPERTY LINE | |
| SETBACK LINE | |
| CENTERLINE | |
| STREAM / WATER COURSE | |
| MAJOR CONTOURS | 215 |
| MINOR CONTOURS | 214 |
| SECTION LINE | |




TRACKER SECTION VIEW A-A
1" = 3'

GENERAL NOTES

1. ALL DIMENSIONS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE.
2. NO PERMANENT PARKING IS PROPOSED
3. NO PERMANENT SITE LIGHTING IS PROPOSED.
4. ALL EQUIPMENT SELECTION AND SPECIFICATIONS SUBJECT TO CHANGE WITH FINAL DESIGN.
5. NO RESIDENCES WITHIN 100' OF SYSTEM

| SYSTEM DETAILS | |
|---|---|
| SITE AREA | 35.21 ± ACRES |
| DC SYSTEM SIZE | 9,232 KW |
| AC SYSTEM SIZE | 4,000 KW |
| DC / AC RATIO | 1.308 |
| POCC/POI VOLTAGE | 12.5KV |
| **PHOTOVOLTAIC MODULES** | |
| MANUFACTURER | TBD |
| MODEL | TBD |
| DC POWER @ STC | 340 W |
| DC VOLTAGE | 1500 V |
| MODULES PER STRING | 27 |
| TOTAL MODULES | 15,300 |
| **INVERTERS** | |
| MANUFACTURER | SUNGROW |
| MODEL | SG125HV |
| NOMINAL POWER RATING | 1250W |
| TOTAL INVERTERS | 32 |
| **SINGLE-AXIS TRACKER** | |
| MANUFACTURER / MODEL | TBD |
| ROW SPACING | 21'-6" |
| RANGE OF MOTION | +/- 60° |

N

0 20' 50' 100' 200'
1"=100'-0"

PRELIMINARY

CONFIDENTIALITY STATEMENT

THIS DRAWING AND ALL INFORMATION HEREIN IS THE PROPERTY OF ENGINEER. ANY REPRODUCTION, MODIFICATION OR USE OF THIS DRAWING FOR OTHER THAN THE INTENDED PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION FROM ENGINEER IS STRICTLY FORBIDDEN

ENGINEERING MANAGER:

i1 Energy

i1 ENERGY, LLC
525 BIG BEND TRAIL
SUGAR HILL, GA 30518

OWNER/DEVELOPER:

Trajectory Energy Partners

TRAJECTORY ENERGY PARTNERS
P.O. BOX 310
HIGHLAND PARK, IL 60035

PROJECT: POPLAR GROVE SOLAR, LLC
42.373954 N, 88.856898 W
4324 IL HWY 173 (APPROXIMATE)
POPLAR GROVE, IL 61011
BOONE COUNTY, IL

REVISIONS

| # | DESCRIPTION | DATE |
|---|---|---|
| A | ISSUED FOR APPROVAL | 20FEB19 |
| B | ISSUED FOR INFORMATION | 25JUL19 |

| PROJECT NO | DWN | CHK | APP | START DATE |
|---|---|---|---|---|
| | JCS | HRM | RJB | 14FEB19 |

PLOT DATE: July 25, 2019

NOT FOR CONSTRUCTION

SHEET TITLE:
POPLAR GROVE SOLAR
PHASE 1 AND 2
CONCEPTUAL SITE PLAN

SHEET NO.
C-100

## 15. Overview

This report details information for several natural resource topics. Most of the details for individual topics are presented in a special section. This section highlights the natural resource concerns, which are most important to this site, the environment, and the community:

1. The land evaluation score for this site is 84.42 (Table 13) and most soils are listed as prime farmland or prime farmland when drained (Table 6). The BCSWCD Board has historically opposed zoning changes with land evaluation scores of 69 points or higher; however, characteristics of the proposed project may also influence the Board's final decision.

2. It appears some solar arrays are proposed within a main drainage way (Figures 15 & 16). These areas should be left unobstructed to avoid additional ponding (Tables 9, & 10). Likewise, within a main drainage way Sable silty clay loam (68A) is present. This soil has characteristics that describe it as 85 percent hydric (Figure 9; Table 8), poorly drained (Table 9), and frequently ponds (Table 10). Approximately eight percent of the AOI contains hydric soils (Figure 9; Table 8)

3. Based on mapped soil types, topography, watershed data, and an onsite investigation, a complex agricultural drainage tile system is likely present and should be ***located and protected prior to construction***. During onsite inspection a main drainage way was noticeable near the northwest AOI boundary (Figure 2). Drainage tile maps have been provided from adjacent properties and illustrate several existing drainage tiles (some old clay tiles are also included) (Appendix D). References and maps show a natural drainage from northern border of the AOI trending south-southeast towards Illinois Route 173. Corn crop on this parcel currently masks evidence of any physical drainage way. Additionally, a tile breather south of Illinois Route 173 across from expected natural drainage way was observed during the site inspection, indicated water is likely being intercepted from the AOI and neighboring properties. If drainage tile systems are disrupted, additional ponding and flooding will likely occur.

4. Hydric soils are expected at this site, with approximately eight percent of the AOI expected to be hydric (Figure 9; Table 8).

5. Approximately 197 acres drain through this parcel and into Beaver Creek (Figure 10).

6. If this special use is approved and acreage of land disturbance is greater than one acre in size, a National Pollutant Discharge Elimination System Permit (NPDES Permit) will be required. Temporary soil stabilization, control of sediment during construction and permanent site stabilization after construction is completed is required under a NPDES permit.

## 4. Site Photographs




**Figure 2.** View toward AOI, looking northwest toward structures at 3952 Illinois Route 173, Caledonia, Illinois (top left); Area for proposed access road and chain link fence along western property boundary, looking north (top right); Drainage way (circled in orange), looking southeast (bottom).

## 2. Opinion of the BCSWCD Board

Jon Carson, on behalf of Trajectory Energy Partners, LLC., has submitted a request for a Natural Resources Information Report as part of an application for a Special Use for a solar energy facility in Section 14 of Poplar Grove Township. The Area of Interest (AOI) is less than a tenth of a mile west of the intersection of Illinois Route 76 and Illinois Route 173. The parcel identification number is 03-14-300-002; however, only about half of this parcel is proposed for the solar facility project.

The Boone County Soil & Water Conservation District Board has a

- [x] Favorable
- [ ] Unfavorable
- [ ] Other: _____

opinion of the proposed land use change. The Board concerns are stressed in the "Overview" section of the report. More detailed information is presented throughout the various sections of this document.

Signature of Board Chairman:

Bill Hall on 8-17-2018




**Figure 16.** Preliminary Conceptual Plan with Aerial Photograph. Preliminary site plan (provided by Trajectory Solar Partners) illustrates some solar arrays are proposed within main drainage way (circled in orange). This drainage area should be left unobstructed to avoid additional ponding (Tables 9 & 10). Approximate location of tile breather, south of Illinois Route 173, is also circled in orange, but not in AOI. The tile breather indicates water is likely being intercepted from the AOI and neighboring properties. If drainage tile systems are disrupted, additional ponding and flooding will likely occur. Drainage tiles should be located and protected prior to construction. Disruptions of tiles can also lead to additional ponding (Table 10).

Appendix D—Adjacent Property Tile Drainage Maps

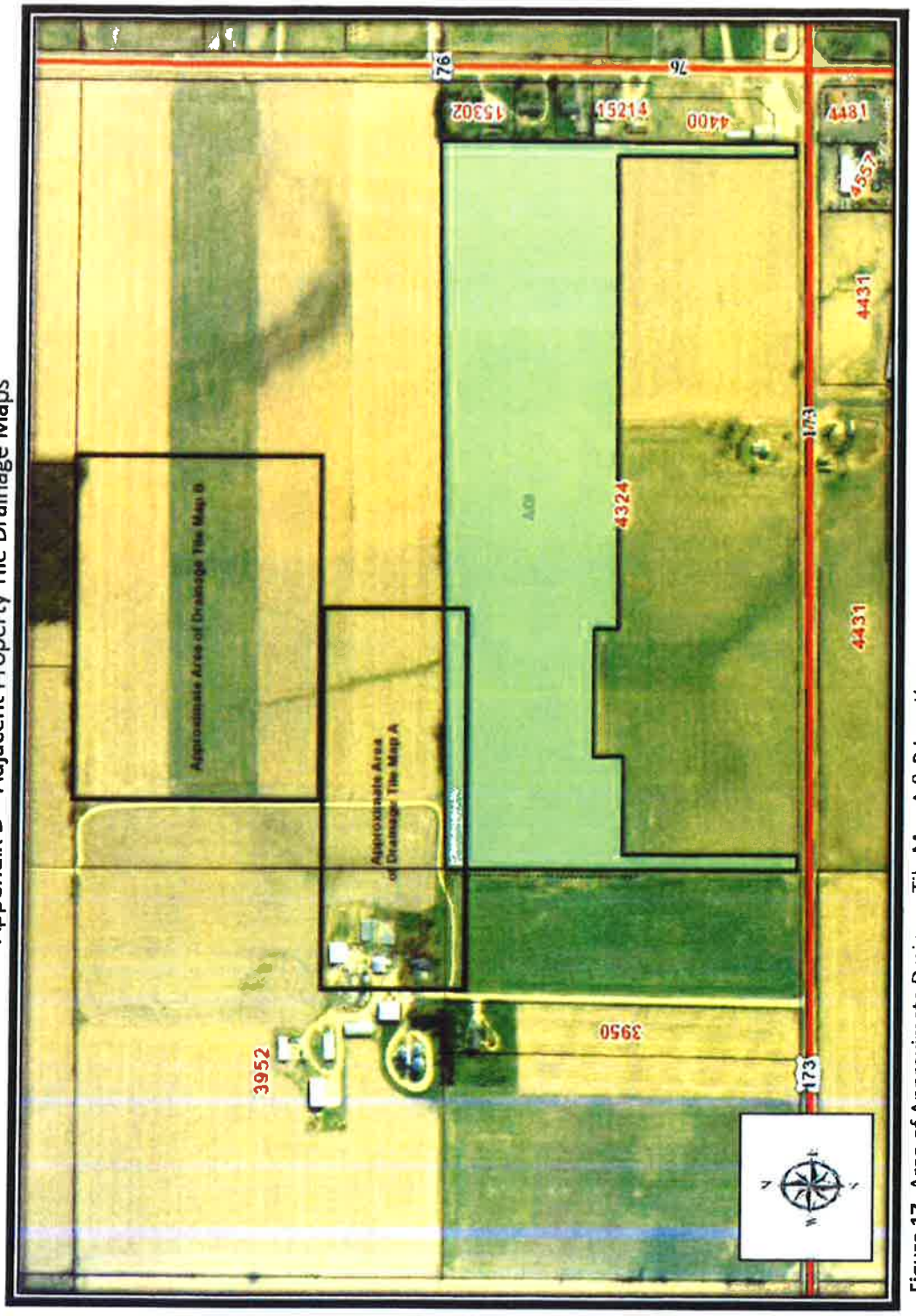



***Figure 17.*** Area of Approximate Drainage Tile Map A & B Locations.

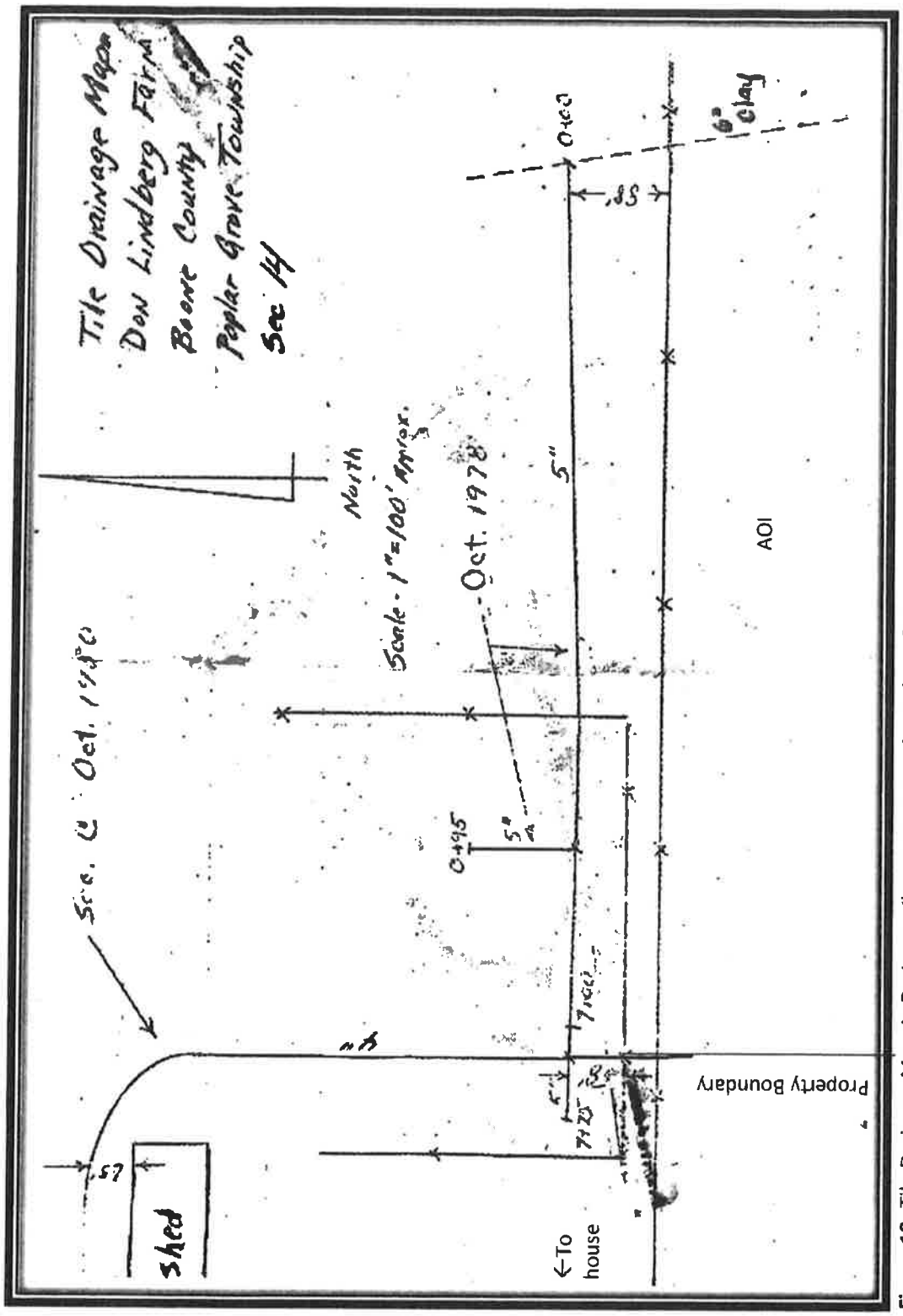



**Figure 18.** Tile Drainage Map A. Drainage tiles were mapped October of 1978 and 1980 by Lischka Drainage. Map illustrates there is a 6" clay tile present and enters into the AOI. There is approximately 2,980 linear feet of drainage tile mapped. Tile drainage map was provided by Don Lindberg August 15, 2018 and modified to define property boundary, location to house, and AOI.

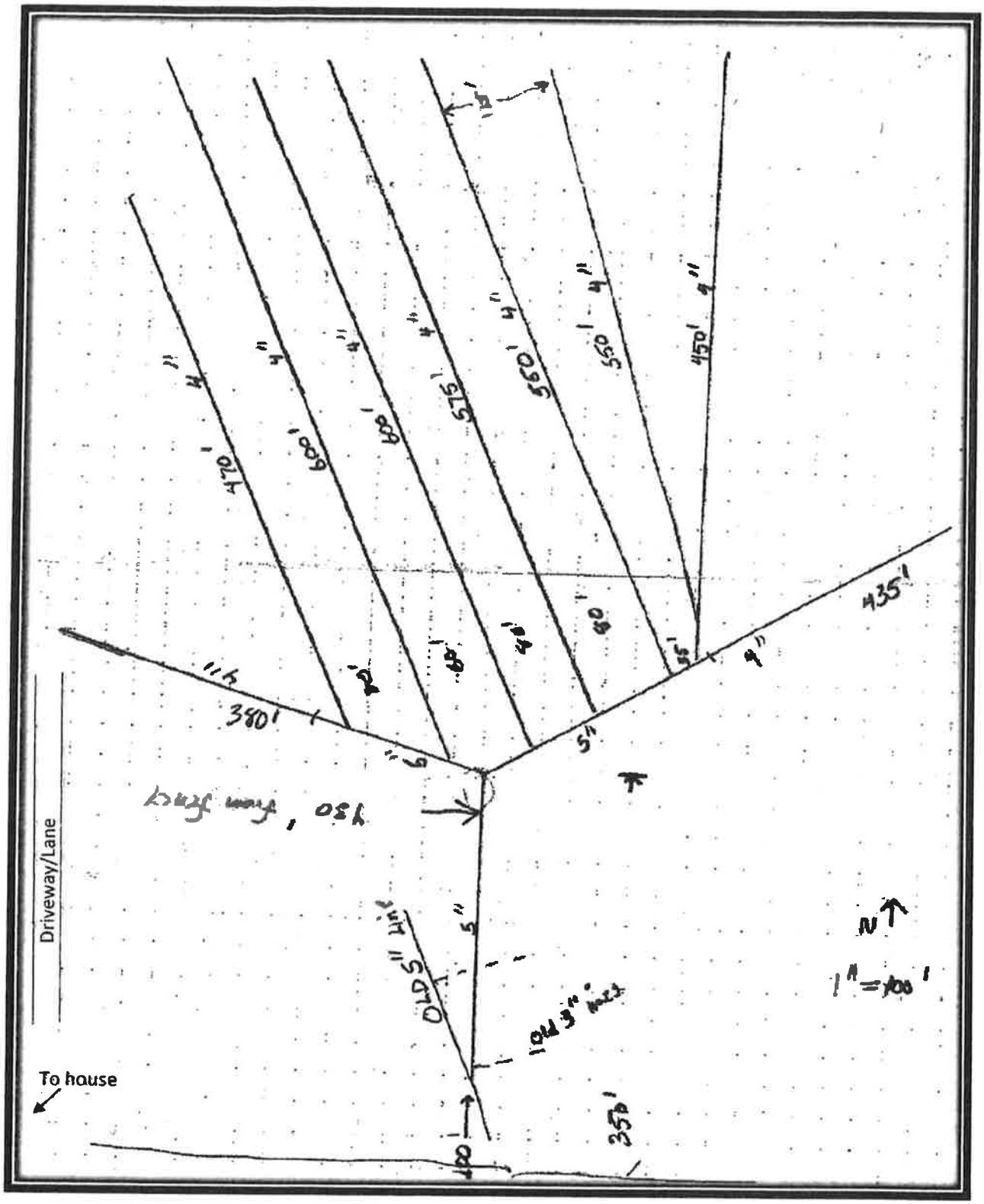



**Figure 19.** Tile Drainage Map B. Drainage tiles were mapped November 2000. There is approximately 5,040 linear feet of drainage tile mapped. This also indicates there are old 3" and 5" clay tiles. Tile drainage map was provided by Don Lindberg August 15, 2018 and was modified to include location to house and driveway/ lane boundary locations.

xiii

Public Health
Prevent. Promote. Protect.

**Boone County Health Department**
1204 Logan Avenue, Belvidere, Illinois 61008
Main Office 815.544.2951 Clinic 815.544.9730 Fax 815.544.2050
www.boonehealth.org

***The mission of the Boone County Health Department is to serve our community by preventing the spread of disease, promoting optimal wellness & protecting the public's health.***

September 04, 2020

FAX: 815-547-0789

Gina DelRose
Community Development Planer
401 Whitney Blvd Suite 300
Belvidere, IL 61008

Planning Services for Village of Poplar Grove

Re: Case: 2020-05, Poplar Grove Solar, LLC, 4324 IL Route 173 (East half)

Dear Gina,

We are in receipt of a copy for a Special use request. Specifically, to install non-building mounted solar collectors (total of 18 acres, eastern phase).

Our office has no objections or comments on this request.

Thank you,

Amanda Mehl
Administrator of Public Health
AT

# **Exhibit D**: EcoCAT Consultation

EcoCAT
Ecological Compliance Assessment Tool

| | | | |
|---|---|---|---|
| *Applicant:* | Trajectory Energy Partners, LLC | *IDNR Project Number:* | 1900789 |
| *Contact:* | Joshua Bushinsky | *Date:* | 07/24/2018 |
| *Address:* | PO Box 310<br>Highland Park, IL 60035 | *Alternate Number:* | COM_BOO_001 |
| *Project:* | Trajectory-Boone County-Poplar Grove | | |
| *Address:* | 4324 IL 173, Poplar Grove | | |

*Description:* Install solar energy infrastructure

## Natural Resource Review Results

**Consultation for Endangered Species Protection and Natural Areas Preservation (Part 1075)**

The Illinois Natural Heritage Database contains no record of State-listed threatened or endangered species, Illinois Natural Area Inventory sites, dedicated Illinois Nature Preserves, or registered Land and Water Reserves in the vicinity of the project location.

**Consultation is terminated.** This consultation is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Termination does not imply IDNR's authorization or endorsement.

**Location**
The applicant is responsible for the accuracy of the location submitted for the project.

*County:* Boone

*Township, Range, Section:*
45N, 3E, 14



**IL Department of Natural Resources Contact**
Bradley Hayes
217-785-5500
Division of Ecosystems & Environment

**Government Jurisdiction**
Village of Poplar Grove
Gina DelRose
200 N. Hill Street
Village of Poplar Grove, Illinois 61065

**Disclaimer**

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

RENO&ZAHM LLP
ATTORNEYS AND COUNSELORS

MICHAEL G. SCHULTZ
MGS@RENOZAHM.COM

September 22, 2020

Poplar Grove Planning and Zoning Commission
200 N. Hill Street
Poplar Grove IL 61065

**Re: Cases 2020-05 and 2020-06**
**Poplar Grove Solar, 4324 IL Rt. 173**

Dear Commissioners:

This firm represents Don and Karen Lindberg who own three parcels of property adjacent to the proposed solar projects. One adjacent parcel (03-15-400-010) includes two residences, including Don and Karen's home on the southeast corner of the parcel closest to the proposed solar power facility. The Lindbergs have lived and farmed this property for generations (over 100 years). When this project was originally proposed (and approved) in 2018, the Lindbergs raised a number of concerns relating to drainage, setbacks and decommissioning. The Lindbergs feel comfortable with the conditions imposed on the previous special use (and request those same conditions be imposed), with one exception.

Condition number five (5) reads: "An agricultural drainage tile system survey shall be completed prior to commencement of the project. All identified drain tile shall be protected and repaired if damaged." We are concerned that this condition leaves ambiguity both in terms of the extent/definition of an "agricultural drainage tile system survey" and the time period during which the applicant must protect and repair damaged tile or the drainage system. We believe the protection and repair condition should apply to the entire period of the special use.

On September 20, 2020, the Boone County Soil & Water Conservation District sent the Village a letter of concern (attached for your ease of reference). The BCSWCD recommended certain conditions. Based on the recommended conditions from the BCSWCD, we request the Village adopt the following condition to replace condition number five (5) for both applications:

> "A subsurface agricultural investigation and survey shall be performed to accurately locate, map, and protect tiles, prior to any construction activity. The drainage system shall be protected and repaired or replaced, as necessary, during

the term of the Special Use to avoid any issues with the Illinois Drainage Law and any unforeseen flooding or impact to drainage that could negatively impact this project or any adjacent landowners."

We believe the above language closes any ambiguities, complies with Illinois drainage law, and ensures the BCSWCD's concerns are addressed. We also do not believe the condition imposes any undue burden or expense on the applicant. Rather the condition ensures the status quo and enables the Lindbergs to continue farming their adjacent property.

We appreciate your consideration.

Sincerely,

Michael G. Schultz

MGS:smc
Enclosure
cc: Don and Karen Lindberg
Gina DelRose, Zoning/Planning (gdelrose@ci.belvidere.il.us)
Aaron Szeto, Village Attorney (aaron@sosnowskiszeto.com)
Owen Costanza, Village President (president@villageofpoplargrove.com)
Trajectory Energy Partners, LLC, Applicant (jcarson@trajectoryenergy.com)

Boone County
**Soil & Water**
Conservation District

211 N. Appleton Road
Belvidere, IL 61008
815-544-2677 x3

September 20, 2020

Village of Poplar Grove
200 S. Hill St.
Poplar Grove, Il 60165

Planning Officials of Poplar Grove:

Mr. Donald Lindberg contacted our office last week regarding concern for agricultural drainage tile on his farmland, adjacent and upslope to a proposed site for solar development on Illinois Route 173 within the Village of Poplar Grove jurisdiction. I would like to highlight a couple comments and emphasize the utilization of our natural resource's information report #1594, which was completed on August 17, 2018. Within this report on page 40 there is the proposed conceptual solar array plan. Based on site inspections and discussions with the adjacent landowner, Mr. Lindberg, there is an agricultural tile that goes through an area of proposed development (a tile riser is found on the southside of Illinois Route 173 that also supports this).

To protect this agricultural tile, it is ***highly recommended*** a subsurface agricultural investigation shall be performed to accurately locate, map, and protect tiles, prior to any construction activity. The system shall be protected during the term of the Special Use and to avoid any issues with the Illinois Drainage Law and any unforeseen flooding that could negatively impact this project, as well as the adjacent landowner upslope of the proposed project. A potential to protect both adjacent upslope landowner and project area, could include installation of an agricultural inspection riser; which would allow easier access to visually monitor water leaving the Lindberg property and entering the proposed project area. Here is it also emphasized to remind the applicant to abide by the Illinois Department of Agriculture's (IDOA) Agricultural Impact Mitigation Agreement (AIMA) where if tile is compromised it should be replaced to better or like kind.

Sincerely:

Jennifer Becker

Jennifer Becker
Administrative Coordinator/ Resource Analyst
Boone County SWCD

# MEMO

**DATE:** September 24, 2020

**TO:** Poplar Grove Village Board

**FROM:** Village of Poplar Grove Planning and Zoning Commission

**SUBJECT:** Recommendation— Case 2020-05: Poplar Grove Solar, LLC, 4324 IL Route 173 (East Half)

**REQUEST AND LOCATION:**
The applicant, Poplar Grove Solar, PO Box 310, Highland Park, IL 60035, on behalf of the property owner, DYN 173, LLC (First Midwest Group), 6801 Spring Creek Road, Rockford, IL 61114, is requesting a special use to install non-building mounted solar collectors (total of 18 acres, eastern phase) for export of energy for use by an electrical utility at 4324 Illinois Route 173 within LI, Light Industrial District (Poplar Grove Zoning Ordinance Sections 8-6-11-B-2 and 8-5-7 Special Use). Part of PIN: 03-14-300-002. The property is rectangular in shape and is currently being farmed. The solar farm will be on the northeastern part of the property away from Illinois Route 173. There is a cluster of single family residential to the east and a farmstead to the northwest. Please note that this is the same special use that was requested in 2018 but was never constructed.

**RECOMMENDATION:**
The Planning and Zoning Commission **approved** case number 2020-05 subject to the following *amended* conditions:

1. Substantial compliance with the narrative and site plan submitted, unless otherwise noted.
2. All vegetation shall be approved by the Boone County Conservation District. Pollinator friendly vegetation shall be used.
3. A decommissioning and reclamation plan shall be submitted to and approved by the Village of Poplar Grove prior to the commencement of the development.
4. A surety, covering the complete execution of the decommissioning and reclamation plan for when the project ends shall be posted prior to the commencement of the development.
5. *A subsurface agricultural investigation and survey shall be performed to accurately locate, map, and protect tiles, prior to any construction activity. The drainage system shall be protected and repaired or replaced, as necessary, during the term of the special use to avoid any issues with the Illinois Drainage Law and any unforeseen flooding or impact to drainage that could negatively impact this project or any adjacent landowners.*
6. The applicant shall provide training to Boone County Fire District 3 pertaining to the hazards in conducting fire control and extinguishment of the proposed solar system.
7. Inspection risers shall be installed between PINs: 03-14-300-001 and 03-14-300-002 and Illinois Route 173

**The motion to amend condition 5 and approve case 2020-05 for a solar farm at 4324 IL Route 173 (east half) carried with a 4-0 roll call vote.**

_____
Jessica Roberts, Chairman
Poplar Grove Planning and Zoning Commission

# MEMO

**DATE:** September 24, 2020

**TO:** Poplar Grove Village Board

**FROM:** Village of Poplar Grove Planning and Zoning Commission

**SUBJECT:** Findings of Fact for Case 2020-05: Poplar Grove Solar, LLC, 4324 IL Route 173 (East Half)

**REQUEST AND LOCATION:**
The applicant, Poplar Grove Solar, PO Box 310, Highland Park, IL 60035, on behalf of the property owner, DYN 173, LLC (First Midwest Group), 6801 Spring Creek Road, Rockford, IL 61114, is requesting a special use to install non-building mounted solar collectors (total of 18 acres, eastern phase) for export of energy for use by an electrical utility at 4324 Illinois Route 173 within LI, Light Industrial District (Poplar Grove Zoning Ordinance Sections 8-6-11-B-2 and 8-5-7 Special Use). Part of PIN: 03-14-300-002. The property is rectangular in shape and is currently being farmed. The solar farm will be on the northeastern part of the property away from Illinois Route 173. There is a cluster of single family residential to the east and a farmstead to the northwest. Please note that this is the same special use that was requested in 2018 but was never constructed.

**FINDINGS OF FACT:**
Per Section 8-5-7(D) of the Village of Poplar Grove Zoning Ordinance, the criteria for granting a Special Use Permit are as follows:

**A.** **Findings: The establishment, maintenance or operation of the special use would not be detrimental to or endanger the public health, safety, morals, comfort or general welfare.**

There are many kinds of solar farms, each having their own set of environmental impacts. Solar farms can be thousands of acres in size. Some require that all vegetation be removed which impacts wildlife by loss of habitat; some are constructed on cement pads that increase surface water run-off; some radiate heat and some feed into a tower that can be dangerous for birds and insects. Phase I of the proposed solar farm will be 18 acres in size, have adequate vegetation, create minimal surface water run-off and is not anticipated to create a noticeable amount of heat or glare.

Considering the zoning of the property and the potential development that is permitted, the solar farms, with proper conditions of approval, would have less of an impact to neighboring properties. An increased setback is being utilized along the east property lines to provide an additional buffer between the projects and nearby residences. The addition of pollinating plants will benefit the community while providing a low maintenance vegetative cover rather than grass seed which can become unsightly.

**B.** **Findings: The special use would not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted or substantially diminish or impair property values within the neighborhood.**

Industrial and limited commercial development is already permitted. The solar farm will be required to adhere to all local, state and federal regulations in addition to the conditions of approval. The height (and potential shadow casting) and lot coverage of the solar panels are less than the amount permitted while the setbacks are greater. The amount of traffic generated by the solar farm is less than that created by an industrial or commercial development.

Although the NRI report indicated agricultural drainage tiles on the western half of the property, through the special use process, a study can be conducted on the eastern half of the property. This will ensure that any potential agricultural drainage tiles are discovered and can now be protected.

**C. Findings: The establishment of the special use will not impede the normal or orderly development and improvements of the surrounding property for uses permitted in the district.**

The solar farms are not anticipated to impact the ability of the surrounding properties to be used agriculturally. The addition of pollinators is intended to be a benefit to the agricultural community. The solar farm is not anticipated to create additional heat, odor, light or noise that would infringe on the nearby residents' enjoyment of their properties.

**D. Findings: Adequate utilities, access roads, drainage and/or necessary facilities will be provided.**

The property is located along Illinois Route 173 which can adequately handle construction equipment and increased traffic during construction. Access roads, drainage and additional power lines and power poles will be installed by the developer in accordance to the project's needs and submitted narrative and site plan.

**E. Findings: Adequate measures have been taken to provide ingress or egress so designed as to minimize traffic congestion in the public streets.**

Once construction of the special use is complete, there will be minimal traffic generated by the routine maintenance and monitoring of the site. An access road will be wide enough to handle two-way traffic, for instance, when multiple vehicles are present.

**F. Findings: The special use shall, in all other respects, conform to the applicable regulations of the districts in which it is located.**

The special use will be required to conform to all the applicable regulations of the Zoning Ordinance, the Subdivision Ordinance, all other regulations and to any conditions of approval enacted by the Village Board.

**The motion to adopt the Findings of Fact for case 2020-05 for a special use to permit a solar farm at 4324 IL Route 173 (East Half) carried with a (4-0) roll call vote.**

_____

Jessica Roberts, Chairman
Poplar Grove Planning and Zoning Commission

**ORDINANCE # 2020_____**

**AN ORDINANCE GRANTING A SPECIAL USE FOR A SOLAR FARM WITHIN THE LI, LIGHT INDUSTRIAL DISTRICT (4324 Illinois Route 173 (East Half)**

**WHEREAS,** the Village of Poplar Grove has adopted Title 8, Zoning in accordance with the provisions of Illinois Compiled Statutes, to regulate the use of land and specify the minimum requirements for improvements on land in the Village of Poplar Grove; and

**WHEREAS,** special uses are certain municipal or private uses that due to their physical or operational characteristics may pose a threat to the value, use and enjoyment of adjoining property and are reviewed on a case by case basis, and are permitted only by permission of the Poplar Grove Village Board; and,

**WHEREAS,** the applicant, Poplar Grove Solar, PO Box 310, Highland Park, IL 60035 on behalf of the property owner, DYN 173 LLC (First Midwest Group), 6801 Spring Creek Road, Rockford, IL 61114 has petitioned the Village for a special use for a solar farm at 4324 Illinois Route 173 (East Half); and,

**WHEREAS,** after due notice by publication pursuant to the Illinois State Statutes, the Village of Poplar Grove Planning and Zoning Commission held a public hearing on September 23, 2020 concerning the proposed special use; and,

**WHEREAS,** the Village of Poplar Grove Planning and Zoning Commission having examined said application and having considered the evidence, both oral and documentary, and being fully advised about the premises did make findings of fact and a recommendation; and,

**WHEREAS,** the corporate authorities of the Village considered the findings of fact and concur with the recommendation of the Planning and Zoning Commission.

**NOW THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND VILLAGE BOARD OF THE VILLAGE OF POPLAR GROVE, BOONE COUNTY, ILLINOIS, AS FOLLOWS:**

**Section 1.** That a special use in the LI, Light Industrial District for a solar farm on the property (as depicted on Attachment A) legally described as:

> The South Half of the Southwest Quarter of Section 14; also all that part of the North Half of the Northwest Quarter of Section 23, lying North of the right of way of the Chicago Northwestern Railway Company, excepting

from the above one acre in said Northwest Quarter of Section 23, deeded to Wayne Wheeler, as appears of record in Book 94 of Deeds, Page 533, Boone County Records, and excepting 4.84 acres in the South Half of the Southwest Quarter of Section 14, deed to Floyd Newhouse, as appears of record in Book 103 of Deeds, on Page 444 also excepting "Tract A" containing .971 acres and "Tract B" containing 4.856 acres in South Half of the Southwest Quarter of Section 14 deed to Floyd Newhouse and Wife, as appears of record in Book 111 of Deeds, Page 359 Boone County Records and also excepting that part of the Northwest Quarter of said Section 23 Deed to John Bullard and Wife, as appears of Record in Book 106 of Deeds, on Page 504 Boone County Records all of the above situated in Township 45 North, Range 3 East of the Third Principal Meridian, in Boone County, State of Illinois and more particularly described as follows to wit:

Part of the Southwest Quarter (1/4) of Section Fourteen (14), Township Forty-Five (45) North, Range Three (3) East of the Third Principal Meridian, bounded and described as follows, to wit: Beginning at the Southwest Corner of the Southwest Quarter of said Section; thence North 00 degrees 36 minutes 51 seconds East, along the West line of the Southwest Quarter of said Section 1326.34 feet to the North Line of the South Half of the Southwest Quarter of said Section; thence South 89 degrees 49 minutes 33 seconds East, along the North Line of the South Half of the Southwest Quarter of said Section 2400.02 feet to the West Line of "Tract A" of premises conveyed Allan B. Wares to Floyd Newhouse and Shirley Newhouse by quit claim deed dated December 26, 1952 and recorded in Book 111 of Deeds on Page 359 in the Recorder's Office of Boone County, Illinois; thence South 00 degrees 38 minutes 50 seconds West, along the West Line of "Tract A" of said premises so conveyed to Newhouse as aforesaid and the Southerly extension thereof, 1324.88 feet to the South Line of the Southwest Quarter of said Section; thence North 89 degrees 51 minutes 38 seconds West, along the South Line of the Southwest Quarter of said Section 2399.26 feet to the Point of Beginning, subject to the rights of the public and State of Illinois in and to those portions thereof taken, used or dedicated for public road purposes. Situated in the County of Boone and State of Illinois. Part of PIN: 03-14-300-002.

Be and is hereby approved, subject to the following conditions:

1. Substantial compliance with the narrative and site plan submitted, unless otherwise noted. (Attachment B)
2. All vegetation shall be approved by the Boone County Conservation District. Pollinator friendly vegetation shall be used.

3. A decommissioning and reclamation plan shall be submitted to and approved by the Village of Poplar Grove prior to the commencement of the development.
4. A surety, covering the complete execution of the decommissioning and reclamation plan for when the project ends shall be posted prior to the commencement of the development.
5. A subsurface agricultural investigation and survey shall be performed to accurately locate, map, and protect tiles, prior to any construction activity. The drainage system shall be protected and repaired or replaced, as necessary, during the term of the special use to avoid any issues with the Illinois Drainage Law and any unforeseen flooding or impact to drainage that could negatively impact this project or any adjacent landowners.
6. The applicant shall provide training to Boone County Fire District 3 pertaining to the hazards in conducting fire control and extinguishment of the proposed solar system.
7. Inspection risers shall be installed between PINs: 03-14-300-001 and 03-14-300-002 and Illinois Route 173

**Section 2.** That the premises shall be used in accordance with and subject to the applicable provisions of the Zoning Ordinance of the Village of Poplar Grove and shall not be used except as may otherwise be expressly authorized by this Special Use.

**Section 3.** That acceptance of any of the benefits of this Special Use shall be deemed acceptance of all the terms and conditions set forth herein.

**Section 4.** This ordinance shall be in full force and effect from and after its passage, approval, and publication in pamphlet form as provided by law.

**Section 5.** Except as expressly modified or amended in this Ordinance, all other terms, conditions, and provisions of the Village Code of Ordinances not so modified or amended, shall remain in full force and effect; provided, however, that any provision of the Village Code of Ordinances shall be deemed modified as necessary to give practical effect to the provisions of this Ordinance. To the extent that the terms and provisions of this Ordinance conflict the Village Code of Ordinances, the terms and provisions of this Ordinance shall control.

**PASSED** by the Village Board of the Village of Poplar Grove this ____ day of _____, 2020.

**APPROVED** by the President of the Village of Poplar Grove this ____ day of _____, 2020.

_____
Owen Costanza, Village President

**ATTEST:**

_____
Karri Anderberg, Village Clerk

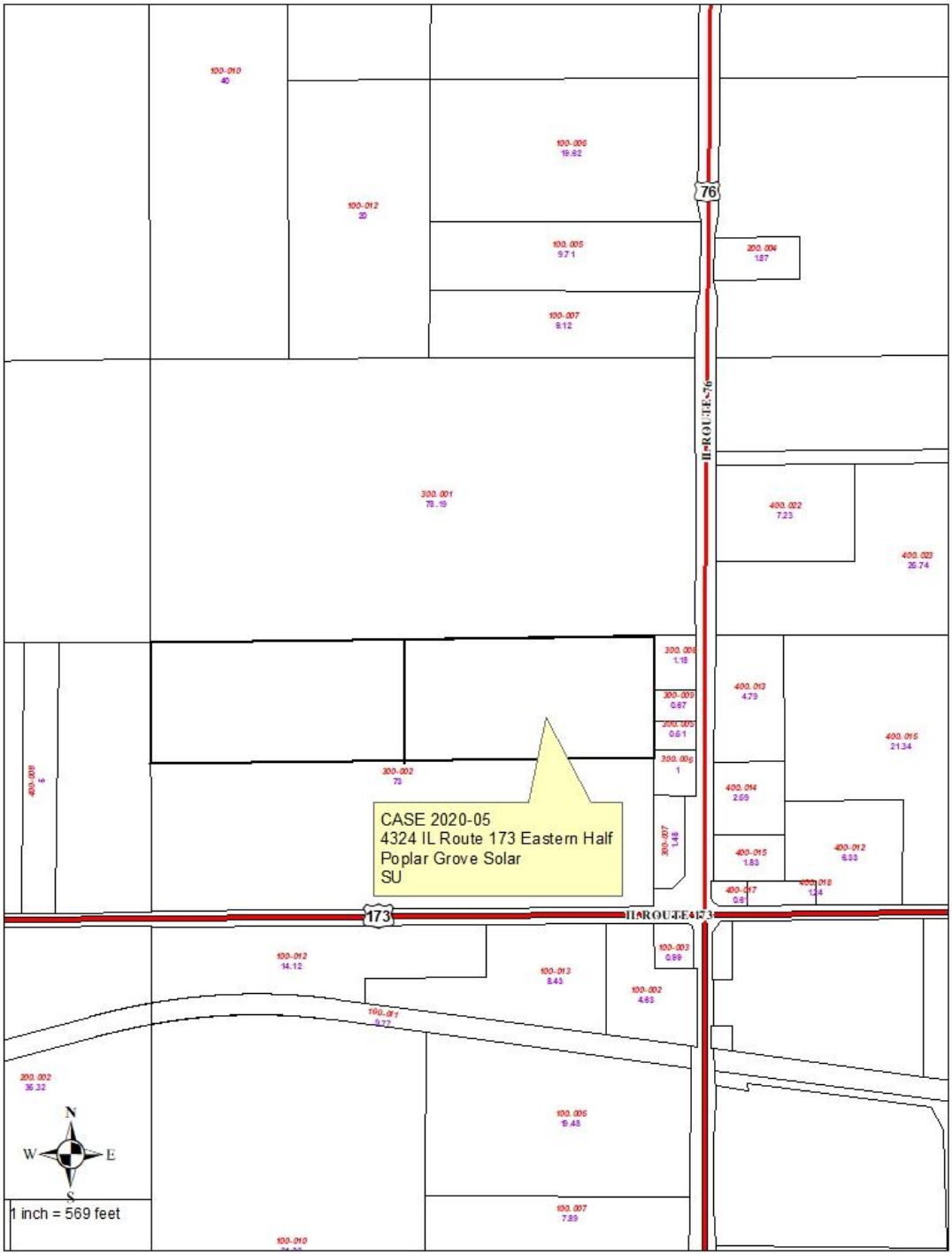
Ayes:____ Nays: ____ Absent ____

Village Board Members Voting Aye:____

Village Board Members Voting Nay:____

Date Published: _____ Sponsor:_____

# Attachment A



# Attachment B

Trajectory Energy Partners

**EXECUTIVE SUMMARY**

**Poplar Grove Solar – Phase 1**

Poplar Grove Solar, LLC - Phase 1 (the "Applicant") proposes to develop a community solar project approximately 2 MW AC in size, on approximately 17 acres of land located north of Illinois Route 173 and west of Fairgrounds Road in the Village of Poplar Grove, Boone County, Illinois. The Poplar Grove Solar, LLC community solar project (the "Solar Project") will be located within a portion of the parcel with PIN 03-14-300-002 (the "Project Parcel") owned by DYN 173, LLC (the "Landowner"). The Applicant is submitting this Petition for Special Use pursuant to and in compliance with the requirements set forth under Sections 8-5-4 and 8-5-7 of the Village of Poplar Grove Zoning Ordinance (the "Zoning Ordinance"), as amended by the Applicant's approved Text Amendment Submitted July 24th, 2017.

The proposed Solar Project will serve the electricity needs of 300 to 400 homes. Once installed and commissioned, the Solar Project will be continuously monitored, and engineers and maintenance technicians will visit the Solar Project a few times a year for routine maintenance and any required repairs. Post-construction, the Solar Project will generate minimal traffic, with visits to the site occurring solely in connection with routine and required maintenance.

**About Trajectory Energy Partners, LLC**

Poplar Grove Solar, LLC is a wholly owned indirect subsidiary of Trajectory Energy Partners, LLC. Trajectory Energy Partners, LLC brings together communities, organizations, and land owners to develop clean energy projects that are integrated into the local landscape and community.

**The Future Energy Jobs Act and Community Solar Projects**

Under Illinois Public Act 99-0906, commonly known as the Future Energy Jobs Act ("FEJA"), the Illinois Power Agency is currently promulgating a set of regulations and incentives to allow the creation of such community solar projects. The Solar Project is intended to be a community solar project under FEJA, which would allow residential and commercial customers to subscribe to the Solar Project. The Solar Project will support FEJA's goals of increasing the adoption and availability of renewable energy to Illinois residents and businesses.

**Economic and Environmental Benefits**

The Solar Project will provide economic and environmental benefits to the community. Poplar Grove residents and businesses will have an opportunity to subscribe to the Solar Project. These subscribers will support clean energy in their community while benefiting from savings

on their electricity bills. In addition, the Solar Project will create new tax revenues for the community and generate economic activity through local construction, materials, and services.

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II. PROJECT DESCRIPTION ..... 4

**Exhibit A**: Project Location

**Exhibit B**: Site Plan

**Exhibit C**: Zoning Diagram

**Exhibit D**: EcoCAT Consultation

**Exhibit E**: Impacts Study

Trajectory Energy Partners

## I. APPLICANT INFORMATION

The Applicant is a limited liability company, a wholly owned indirect subsidiary of Trajectory Energy Partners, LLC. Jonathan Carson is an Authorized Representative of the Applicant.

Applicant:

Poplar Grove Solar, LLC
c/o Trajectory Energy Partners, LLC
Attn: Jon Carson
P.O. Box 310
Highland Park, IL 60035
(312) 882-3713
legal@trajectoryenergy.com

Landowner:

DYN 173, LLC
c/o First Midwest Group
Attn: Marvin L. Keys
6801 Spring Creek Road
Rockford, IL, 61114
(815)-229-3000

## II. PROJECT DESCRIPTION

### a. General Description

The Solar Project will be located on approximately 17 acres in the Village of Poplar Grove, Section 14, Township 45 North, Range 3, Boone County, Illinois, Property Index Numbers: 03-14-300-002. See Exhibit A: Project Location.

Legal Description

PIN 03-14-300-002:

THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 14; ALSO ALL THAT PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 23, LYING NORTH OF THE RIGHT OF WAY OF THE CHICAGO NORTHWESTERN RAILWAY COMPANY, EXCEPTING FROM THE ABOVE ONE ACRE IN SAID NORTHWEST QUARTER OF SECTION 23, DEEDED TO WAYNE WHEELER, AS APPEARS OF RECORD IN BOOK 94 OF DEEDS, PAGE 533, BOONE COUNTY RECORDS, AND EXCEPTING 4.84 ACRES IN THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 14, DEED TO FLOYD NEWHOUSE, AS APPEARS OF RECORD IN BOOK 103 OF DEEDS, ON PAGE 444 ALSO EXCEPTING "TRACT A" CONTAINING .971 ACRES AND "TRACT B" CONTAINING 4.856 ACRES IN SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 14 DEED TO FLOYD NEWHOUSE AND WIFE, AS APPEARS OF RECORD IN BOOK 111 OF DEEDS PAGE 359 BOONE COUNTY RECORDS AND ALSO EXCEPTING THAT PART OF THE NORTHWEST QUARTER OF SAID SECTION 23 DEED TO JOHN BULLARD AND

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WIFE, AS APPEARS OF RECORD IN BOOK 106 OF DEEDS, ON PAGE 504 BOONE COUNTY RECORDS ALL OF THE ABOVE SITUATED IN TOWNSHIP 45 NORTH, RANGE 3 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN BOONE COUNTY, STATE OF ILLINOIS AND MORE PARTICULARLY DESCRIBED AS FOLLOWS TO WIT:

PART OF THE SOUTHWEST QUARTER (1/4) OF SECTION FOURTEEN (14), TOWNSHIP FORTY-FIVE (45) NORTH, RANGE THREE (3) EAST OF THE THIRD (3RD) PRINCIPAL MERIDIAN, BOUNDED AND DESCRIBED AS FOLLOWS, TO WIT: BEGINNING AT THE SOUTHWEST CORNER OF THE SOUTHWEST QUARTER OF SAID SECTION; THENCE NORTH 00°36'51" EAST, ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 1326.34 FEET TO
THE NORTH LINE OF THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SAID SECTION; THENCE SOUTH 89°49'33" EAST, ALONG THE NORTH LINE OF THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SAID SECTION, 2400.02 FEET TO THE WEST LINE OF TRACT "A" OF PREMISES CONVEYED ALLAN B. WARES TO FLOYD NEWHOUSE AND SHIRLEY NEWHOUSE BY QUIT CLAIM DEED DATED DECEMBER 26, 1952 AND RECORDED IN BOOK 111 OF DEEDS ON PAGE 359 IN THE RECORDER'S OFFICE OF BOONE COUNTY, ILLINOIS; THENCE SOUTH 00°38'50" WEST, ALONG THE WEST LINE OF TRACT "A" OF SAID PREMISES SO CONVEYED TO NEWHOUSE AS AFORESAID AND THE SOUTHERLY EXTENSION THEREOF, 1324.88 FEET TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION; THENCE NORTH 89°51'38" WEST, ALONG THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION, 2399.26 FEET TO THE POINT OF BEGINNING. SUBJECT TO THE RIGHTS OF THE PUBLIC AND STATE OF ILLINOIS IN AND TO THOSE PORTIONS THEREOF TAKEN, USE OR DEDICATED FOR PUBLIC ROAD PURPOSES. SITUATED IN THE COUNTY OF BOONE AND STATE OF ILLINOIS

The project is located on the portion of the Project Parcel that is currently zoned as Light Industrial District.

### b. Site Plan and Phases

A Site Plan detailing the placement of the solar arrays and proposed access is included in this application. The proposed Solar Project is indicated on the Site Plan as Phase 1. The Applicant is concurrently submitting a Special Use Application for Phase 2. Each Phase contains a single 2MW AC community solar farm. Pursuant to the regulations and policies implementing FEJA, a single parcel may contain up to two 2MW AC community solar farms. The incentives required to construct each community solar farm are intended to be allocated by lottery, and thus each Phase may be awarded such incentives separately, and if both receive incentives, at different times. Thus, the Applicant may construct Phase 2 prior to Phase 1, or may only construct one of the two Phases if incentives are not available for both Phases. See Exhibit B: Site Plan.

### c. Equipment Detail

The Solar Project will consist of equipment to generate electricity from solar energy, including rows of photovoltaic cell panels on a single-axis tracking system, racking, inverters, and perimeter fencing. Support poles will be driven into the ground. Transformers and other electrical equipment will be located on one to two small concrete pads measuring approximately 6' x 10' for each Phase. Panels will be installed in a north-south configuration on

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a rotating mounting system that will track the sun throughout the day. The panels will be designed with an anti-reflective coating to minimize glare from the Solar Project and prevent impacts to avian wildlife including birds and bats. The Solar Project is intended to operate for a period of at least 25 years and will be constructed with solar panels and other electrical equipment with long-term warranties and very low expected rates of replacement.

The components of the Solar Project will comply with the current edition of the National Electric Code and be UL listed or meet a comparable safety standard. The Solar Project's electrical collection lines will be underground and then brought together for connection to the transmission network rather than directly to a substation. For each Phase, three on-site poles will convey powerlines to utility-owned poles and on to a proposed interconnection point within the Solar Project's footprint. See Exhibit B: Site Plan.

### d. Fencing, Access, Drainage and Landscaping

Each Phase of the Solar Project will be enclosed by a 7' chain-link fence, as required by the National Electrical Code. The Solar Project will be accessed from IL 173 along a dedicated access road and through a gated entrance with a maximum width of 24'.

Landscaping plans include plantings that buffer the residential parcels to the east within the proposed 100' setback along the eastern edge of the Solar Project. Vegetation under and around the Solar Project will be maintained by periodic mowing, inspections, and weed management as appropriate. The Solar Project will add cover vegetation to the site that traditionally been utilized for row crop. In doing so, drainage and runoff is expected to improve through the improved absorption of rain and melting snow and ice. No impervious surfaces will be added to Parcel, with the exception of one to two small concrete pads measuring roughly 6' x 10' for each Phase. The Solar Project will adhere to the Illinois Environmental Protection Agency (IEPA) Construction Stormwater Permit Requirements.

In addition, the Solar Project will work with the Village and the Landowner to specify low-growing grasses or pollinator-friendly plantings to be planted as a buffer around the Solar Project. The pollinator-friendly species are intended to facilitate local pollinator habitat, improve water infiltration, prevent compaction, and control erosion while increasing microbial activity and production of organic matter.

### e. Total Height of Solar Arrays and Other Structures

The total overall height of the facility will not exceed 12'.

### f. Requested Duration

The Applicant will not be able to move forward with constructing either Phase of the Solar Project until it has recived approval for Renewable Energy Credits. Both phases are currently on a waitlist for such Renewable Energy Credits (REC) and the Illinois Power Agency is expected to release additional information on additional REC awards in the future.

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### g. Proposed Setback Dimensions

See Exhibit B: Site Plan

TABLE 1: SETBACK TABLE

| | Village Requirement | Proposed Setbacks |
|---|---|---|
| Light Industrial: Front | 30' | > 650' |
| Light Industrial: Western Side | 20' | > 700' |
| Light Industrial: Eastern Side | 20' | 100' with buffer plantings proposed. |
| Light Industrial: Rear | 30' | 30' |

See Exhibit B: Site Plan.

### h. Environmental Impact

The Illinois Department of Natural Resources' Ecological Compliance Assessment Tool (EcoCAT) consultation has been terminated with respect to the Solar Project site. See Exhibit D: EcoCAT Consultation.

The Solar Project will comply with all local, state, and federal environmental regulations. A Natural Resource Inventory (NRI) has been requested from the Boone County Soil and Water Conservation District.

The Solar Project shall be constructed, operated and maintained in compliance with federal, state, and local laws, including with respect to the removal and disposal of solid waste generated thereby. The Solar Project will also be maintained in a clean and neat manner, and any such solid waste will be removed as appropriate, with all costs borne by the Applicant.

### i. Ingress and Egress During Construction and Thereafter

One improved, gravel access road will provide ingress and egress from the Solar Project site to IL 173 both during construction and thereafter. The applicant will use a watering truck as necessary to control dust during construction. See Exhibit B: Site Plan.

### j. Construction and Maintenance; Traffic

The active construction period for each Phase of the Solar Project is expected to begin at the earliest in Spring 2021 and the construction of each Phase will last approximately 3 to 6

months. Construction will require trucks no larger than a typical 18-wheeler to deliver materials to the site, and onsite equipment will be used to drive pilings into the ground and install the panels, supports, and tracking equipment. Construction workers and personnel will arrive in pick-up trucks. Typically, solar installations do not require the use of cranes. Construction hours will follow a typical daily construction schedule.

The operations and maintenance of the Solar Project will generate minimal traffic. Because the Solar Project will be continuously monitored electronically off-site, engineers and maintenance technicians will visit the Solar Project a few times a year for routine maintenance and any repairs. Landscaping will be managed regularly during the growing season as described below.

### k. Public Road Routes

The public road route will utilize IL 173, which is paved and designed for construction traffic.

### l. Warning Signage

The Applicant will place signs warning of high voltage at the entrance to the solar facility as well as on the base of all pad mounted transformers. In addition, the Solar Project will prominently display a sign providing emergency contact information including the name of the solar facility, address, and the emergency contact telephone numbers for the Solar Project and the Operations and Maintenance contractor.

### m. Conformance to Industry and Code Standards/Engineer Certification

The Solar Project will comply with all applicable local and county codes for the electrical, mechanical, and structural components of the facility.

### n. Lighting

The Solar Project does not require lighting. No lighting will be installed.

### o. Decommissioning

Upon the cessation of operations of the Solar Project, the Applicant will remove the installed Solar Project equipment and restore the site pursuant to its obligations to the Landowner, and will comply with the requirements of any governmental agency respecting the decommissioning and reclamation obligations for the Parcel. In connection with such decommissioning, the Applicant will remove the above-ground structures as well as the installed underground electrical equipment.

### p. Property Value Impacts

Property valuation experts from CohnReznick have studied the value of properties that adjoin solar farms in Illinois and Indiana and concluded that the solar farms do not adversely affect the property values in either the short or long term.

The study included solar farms in Lasalle and Winnebago Counties in Illinois; as well as Elkhart, Lake, Madison, Marion and Porter Counties in Indiana. Experts analyzed property sale prices

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and marketability of single family homes and agricultural land that adjoins solar farms and compared this data to comparable properties in the same county. The study also included interviews with county assessors and local real estate professionals, all of whom concluded that solar farms in their area had not impacted property values. Similar research has been conducted in other states across the U.S. and none of these studies have found that solar farms adversely affect nearby property values. Please see Exhibit E: Impacts Study.

### q. Owners of Record

The following landowners are adjacent to the Project Parcel:

| PIN# | Name/Trust No. | Street | City | Zip |
|---|---|---|---|---|
| 03-15-400-011 | LINDBERG, DONALD A TR | 3952 IL ROUTE 173 | Caledonia | 61011 |
| 03-15-400-010 | LINDBERG, DONALD A TR | 3952 IL ROUTE 173 | Caledonia | 61011 |
| 03-14-300-001 | LINDBERG, DONALD A TR | 3952 IL ROUTE 173 | Caledonia | 61011 |
| 03-14-300-008 | MCINTYRE, MICHAEL S & JANE A (HAAS) | 15302 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-009 | RABE, DALE A & CANDY E | 15270 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-005 | RABE, BENJAMIN | 15246 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-006 | GUTHRIE, GLENN S & COLLEEN | 15214 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-007 | DELIJAHN INCORPORATED | PO BOX 305 | Caledonia | 61011 |
| 03-23-100-003 | NEBIU, ERGEN & NADRIT & MURAT | 4481 IL ROUTE 173 | Caledonia | 61011 |
| 03-23-100-002 | GRACEFFA, PETER J | 4557 IL ROUTE 173 | Caledonia | 61011 |
| 03-23-100-013 | POPLAR GROVE STORAGE LLC | 6801 SPRING CREEK RD | Rockford | 61114 |
| 03-23-100-012 | DYN 173 LLC | 6801 SPRING CREEK RD | Rockford | 61114 |
| 03-22-200-002 | BOONE/POPLAR GROVE LLC | 6277 E RIVERSIDE BLVD | Rockford | 61114 |

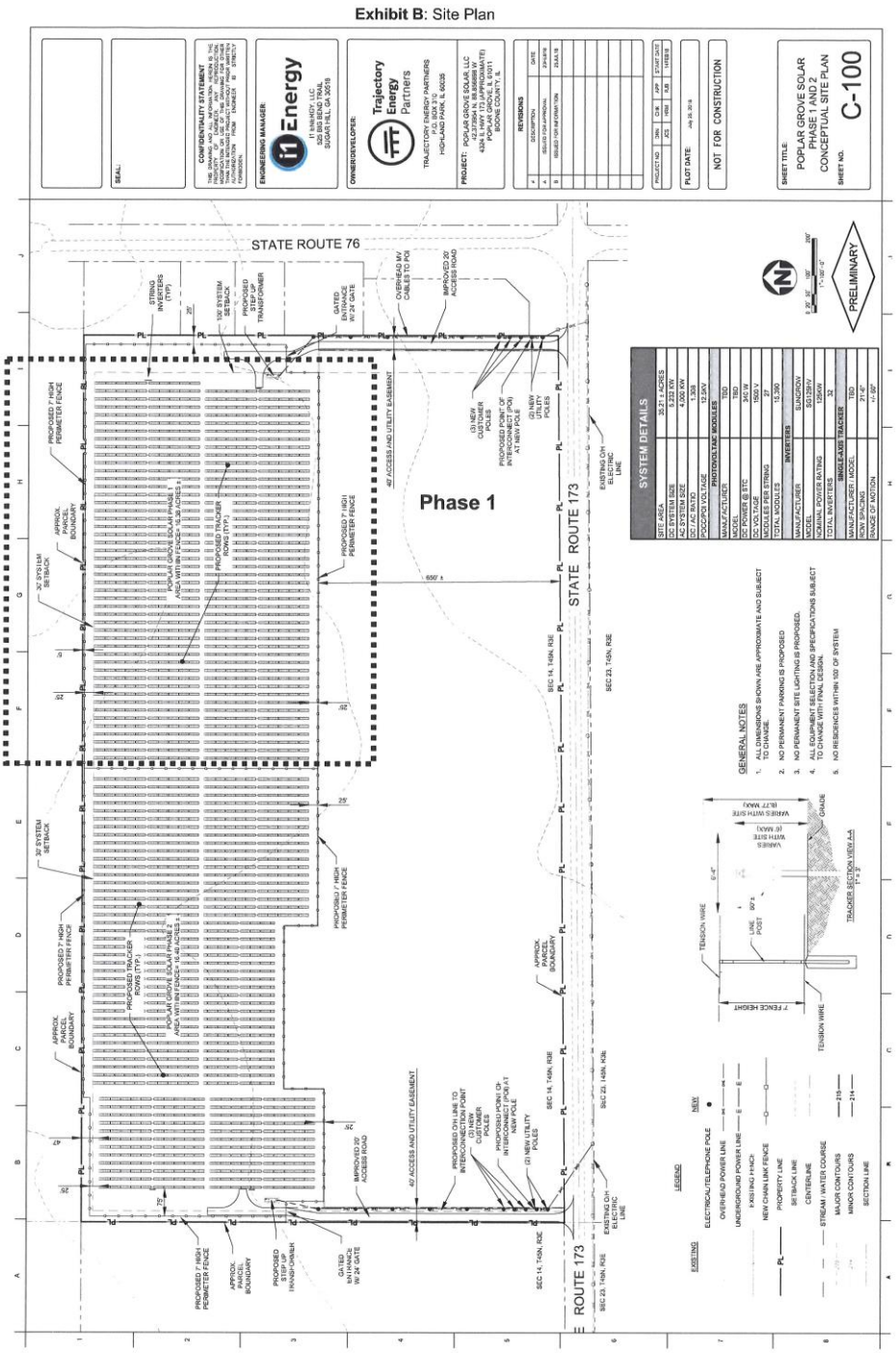
### r. Special Use for Corporations, Partnerships, and Joint Venture

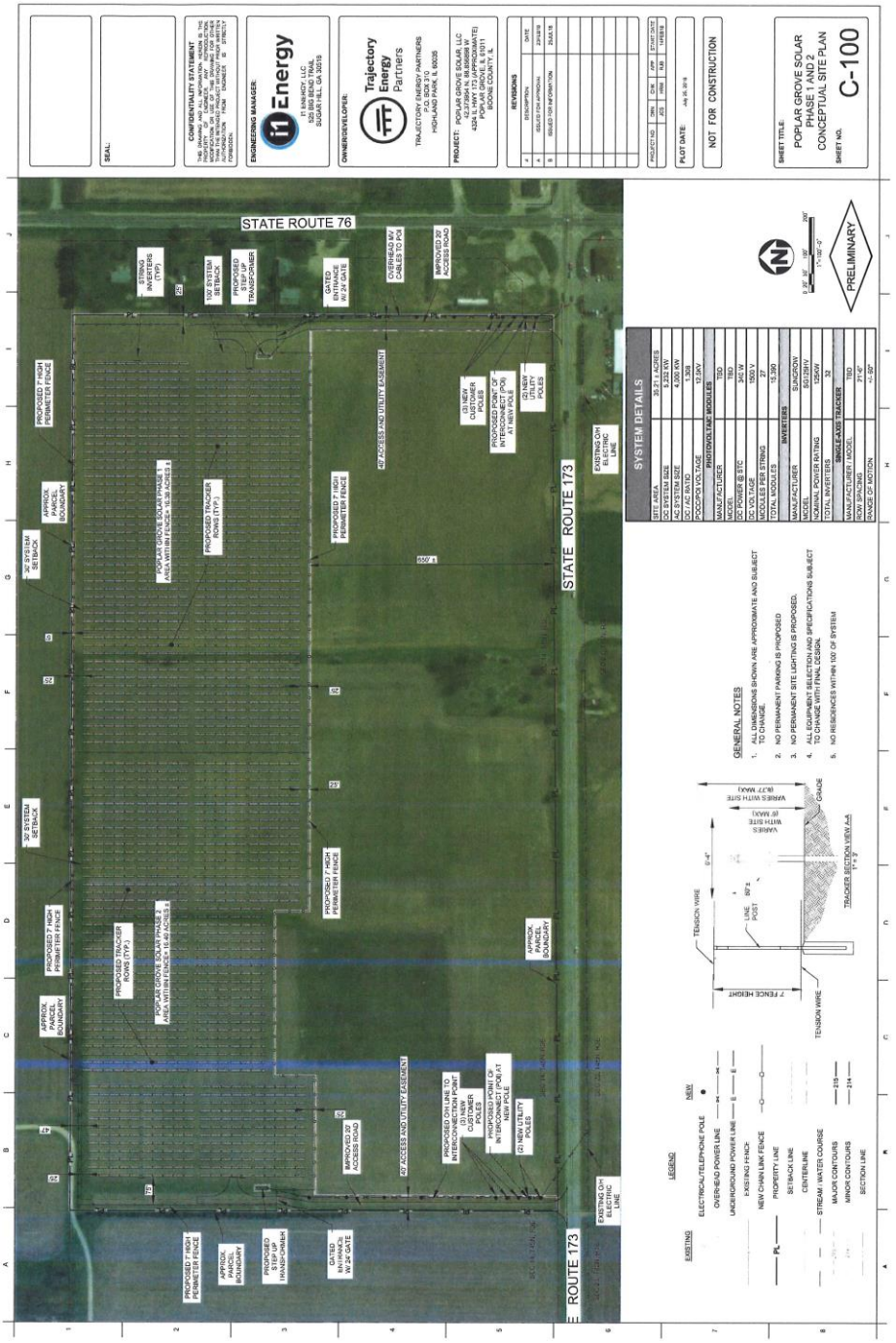
a. The Applicant is not a corporation, partnership or joint venture.
b. The Applicant is not doing business under an assumed name.
c. The Applicant is acting on its behalf.
d. Poplar Grove Solar, LLC is a wholly owned indirect subsidiary of Trajectory Energy Partners, LLC, P.O. Box 310, Highland Park, IL 60035.

### s. Special Use Fees

The Applicant has enclosed the filing fee with this application.

**Exhibit B**: Site Plan




STATE ROUTE 76
STATE ROUTE 173
ROUTE 173
PROPOSED POPLAR GROVE SOLAR PHASE 2 AREA WITH 8ft FENCE± 16.49 ACRES ±
PROPOSED POPLAR GROVE SOLAR PHASE 1 AREA WITH 8ft FENCE± 15.39 ACRES ±
PROPOSED 7' HIGH PERIMETER FENCE
APPROX. PARCEL BOUNDARY
PROPOSED TRACKER ROWS (TYP.)
50' SYSTEM SETBACK
100' SYSTEM SETBACK
STRING INVERTERS (TYP.)
PROPOSED STEP UP TRANSFORMER
GATED 24' ENTRANCE W/ 24' GATE
OVERHEAD MV CABLES TO POI
IMPROVED 20' ACCESS ROAD
40' ACCESS AND UTILITY EASEMENT
PROPOSED POINT OF INTERCONNECTION (POI) (1) NEW CUTOVER POLES
(2) NEW UTILITY POLES
EXISTING OH ELECTRIC LINE
PROPOSED OH LINE TO INTERCONNECTION POINT (3) NEW CUTOVER POLES
GATED 24' ENTRANCE W/ 24' GATE
650' ±
SYSTEM DETAILS
SITE AREA 30.21 ± ACRES
AC SYSTEM SIZE 3,295 kW
DC SYSTEM SIZE 4,944 kWp
DC/AC RATIO 1.500
POCC/POI VOLTAGE 12.5kV
PHOTOVOLTAIC MODULES
MANUFACTURER TBD
MODEL TBD
DC POWER @ STC 345 W
DC VOLTAGE 1500 V
MODULES PER STRING 27
TOTAL MODULES 13,280
INVERTERS
MANUFACTURER SUNGROW
MODEL 50/125kV
NOMINAL POWER RATING 1250W
TOTAL INVERTERS 28
SINGLE-AXIS TRACKER
MANUFACTURER / MODEL TBD
ROW SPACING 21'-6"
RANGE OF MOTION +/- 52°
GENERAL NOTES
1. ALL DIMENSIONS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE.
2. NO PERMANENT PARKING IS PROPOSED
3. NO PERMANENT SITE LIGHTING IS PROPOSED.
4. ALL EQUIPMENT SELECTION AND SPECIFICATIONS SUBJECT TO CHANGE WITH FINAL DESIGN.
5. NO RESIDENCES WITHIN 100' OF SYSTEM
LEGEND
EXISTING
NEW
ELECTRICAL/TELEPHONE POLE
OVERHEAD POWER LINE
UNDERGROUND POWER LINE
EXISTING FENCE
NEW CHAIN LINK FENCE
PROPERTY LINE
SETBACK LINE
CENTERLINE
STREAM / WATER COURSE
MAJOR CONTOURS
MINOR CONTOURS
SECTION LINE
TENSION WIRE
LINE POST
7' FENCE HEIGHT
VARIES WITH SITE (6'-7" MAX)
GRADE
TRACKER SECTION VIEW A-A
CONFIDENTIALITY STATEMENT
SEAL:
ENGINEERING MANAGER:
i1 Energy
11 ENERGY, LLC
1075 MAIN STREET #344
SUGAR HILL, GA 30518
OWNER/DEVELOPER:
Trajectory Energy Partners
TRAJECTORY ENERGY PARTNERS
P.O. BOX 310
HIGHLAND PARK, IL 60035
PROJECT: POPLAR GROVE SOLAR, LLC
42.273994 N, 89.656666 W
-SE OF INTERSECTION OF STATE ROUTE 76 AND STATE ROUTE 173
POPLAR GROVE, IL 61011
BOONE COUNTY, IL
REVISIONS
DESCRIPTION
DATE
A ISSUED FOR APPROVAL 2/14/19
B ISSUED FOR INFORMATION 2/14/19
PROJECT NO. 2019
DRN. CHK. APP.
EXHIBIT 2019
PLOT DATE: JUL 16, 2019
NOT FOR CONSTRUCTION
SHEET TITLE:
POPLAR GROVE SOLAR PHASE 1 AND 2 CONCEPTUAL SITE PLAN
SHEET NO. C-100
PRELIMINARY

# Memorandum

**DATE:** September 17, 2020

**TO:** Village of Poplar Grove Planning and Zoning Commission

**FROM:** Gina DelRose, Community Development Planner

**SUBJECT:** Staff advisory memo for case: 2020-06: Poplar Grove Solar, LLC, 4324 IL Route 173 (West Half)

**REQUEST AND LOCATION:**
The applicant, Poplar Grove Solar, PO Box 310, Highland Park, IL 60035, on behalf of the property owner, DYN 173, LLC (First Midwest Group), 6801 Spring Creek Road, Rockford, IL 61114, is requesting a special use to install non-building mounted solar collectors (total of 18 acres, western phase) for export of energy for use by an electrical utility at 4324 Illinois Route 173 within LI, Light Industrial District (Poplar Grove Zoning Ordinance Sections 8-6-11-B-2 and 8-5-7 Special Use. Part of PIN: 03-14-300-002. The property is rectangular in shape and is currently being farmed. The solar farm will be on the northwestern part of the property, away from Illinois Route 173. There is a cluster of single family residential to the east and a farmstead to the northwest. Please note that this is the same special use that was requested in 2018 but was never constructed.

**BACKGROUND:**
On November 14, 2018, the Poplar Grove Village Board approved Ordinance 2018-37 approving an 18 acre solar farm. Rather than asking for a second extension of the previously approved special use, the applicant has resubmitted the special use for approval. The site plan and overall request has not changed since it was previously approved in 2018. It is anticipated that the State of Illinois will be releasing more funding for renewable energy projects such as the one being proposed. In order to be prepared for potential state funding, solar projects will need to have local approval in place.

The property was annexed into the Village of Poplar Grove in 2005. Additional land uses allowed within the Light Industrial District are vehicle related sales/services, light manufacturing/industrial and wireless communication facilities by right and rail transit stations, airports/heliports and indoor warehouse/wholesale by special use. Development in the light industrial district can create 65% lot coverage, buildings can be 50 feet in height and constructed 20 feet from the side lot line and 30 feet from the rear lot line.

Although traditional development is permitted 20 feet from the western property line and 30 feet from the northern property line, the solar panels will be constructed 75 feet from the western property line and 30 feet from the northern property line.

The special uses consist of Phase II of a two phase soar The special use consists of two adjacent projects totaling 36 acres and encompassing an area approximately 2,215 feet wide and 600 feet deep, not including access roads and power lines. The front portion of the property will remain in agricultural production. The projects are designed to be Community Solar projects, allowing residences and businesses to subscribe to use the electricity. The projects will be 2 MW AC each in size and are anticipated to power 600-800 homes. Once the

projects are completed, there will be minimal traffic generated from the routine monitoring and maintenance of the property.

The solar panels will be up to 12 feet in height and mounted into the ground on poles, not concrete pads. The panels will be configured in a north-south layout with the capability to rotate in order to track the sun throughout the day. There will be an anti-reflective coating placed on the panels to help minimize glare. Due to the mounting style of the solar panels, there will be minimal lot coverage; however, there will be a 6'x10' concrete pad for the transformer associated with each project as well as a set of three onsite poles that will convey power lines to the utility owned poles. Electrical collection lines will be underground and brought together for connection to the transmission network rather than directly to a substation. Security lighting is not anticipated to be used; there will, however, be a 7' chain link fence and warning signs around the perimeter of the projects.

The projects have a 25-year design life and all equipment (above and below ground) will be required to be removed and the site restored per the approved decommissioning plan. The projects will be required to be landscaped with low maintenance plants that act as natural pollinators. These plantings shall be reviewed and approved by the Boone County Conservation District.

According to the Natural Resources Inventory Report (NRI) #1594 there is a drainage way on the western half of the property (Phase II) and agricultural drainage tiles that serve the properties to the west and north that traverse the subject property. The tiles feed into a tile breather located south of Illinois 173. Since an NRI was not done at time of annexation or rezoning, these factors were not considered during the rezoning of the property. Through the special use process conditions such as leaving the drainage ways unobstructed and locating and protecting the agricultural drainage tile system can be enacted to help minimize the negative impacts to adjacent property owners.

The adjacent property owners were sent certified notices on September 2, 2020 and the green cards have been returned. The request was published in the Boone County Journal on September 4, 2020. The appropriate village staff and other agencies were notified on September 2, 2020. No objections from the agencies were received.

**FINDINGS OF FACT:**
Per Section 8-5-7(D) of the Village of Poplar Grove Zoning Ordinance, the criteria for granting a Special Use Permit are as follows:

**A.** **Findings: The establishment, maintenance or operation of the special use would not be detrimental to or endanger the public health, safety, morals, comfort or general welfare.**

There are many kinds of solar farms, each having their own set of environmental impacts. Solar farms can be thousands of acres in size. Some require that all vegetation be removed which impacts wildlife by loss of habitat; some are constructed on cement pads that increase surface water run-off; some radiate heat and some feed into a tower that can be dangerous for birds and insects. The proposed solar farm will be 36 acres in size, have adequate vegetation, create minimal surface water run-off and is not anticipated to create a noticeable amount of heat or glare.

Considering the existing zoning of the property and the potential development that is permitted, the solar farms, with proper conditions of approval, would have less of an impact to neighboring properties. An increased setback is being utilized along the west property line to provide an additional buffer between the project and nearby properties. The addition of pollinating plants will benefit the community while providing a low maintenance vegetative cover rather than grass seed which can become unsightly.

B. **Findings: The special use would not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted or substantially diminish or impair property values within the neighborhood.**

Industrial and commercial development are already permitted. The solar farm will be required to adhere to all local, state and federal regulations in addition to the conditions of approval. The height (and potential shadow casting) and lot coverage of the solar panels are less than the amount permitted while the setbacks are greater. The amount of traffic generated by the solar farm is less than that created by an industrial or commercial development. Due to the NRI report, drainage ways and agricultural drainage tiles were discovered and can now be protected.

C. **Findings: The establishment of the special use will not impede the normal or orderly development and improvements of the surrounding property for uses permitted in the district.**

The solar farms are not anticipated to impact the ability of the surrounding properties to be used agriculturally. The addition of pollinators is intended to be a benefit to the agricultural community. The solar farm is not anticipated to create additional heat, odor, light or noise that would infringe on the nearby residents' enjoyment of their properties.

D. **Findings: Adequate utilities, access roads, drainage and/or necessary facilities will be provided.**

The property is located along Illinois Route 173 which can adequately handle construction equipment and increased traffic during construction. Access roads, drainage and additional power lines and power poles will be installed by the developer in accordance to the project's needs and submitted narrative and site plan.

E. **Findings: Adequate measures have been taken to provide ingress or egress so designed as to minimize traffic congestion in the public streets.**

Once construction of the special use is complete, there will be minimal traffic generated by the routine maintenance and monitoring of the site. An access road will be wide enough to handle two-way traffic, for instance, when multiple vehicles are present.

F. **Findings: The special use shall, in all other respects, conform to the applicable regulations of the districts in which it is located.**

The special use will be required to conform to all the applicable regulations of the Zoning Ordinance, the Subdivision Ordinance, all other regulations and to any conditions of approval enacted by the Village Board.

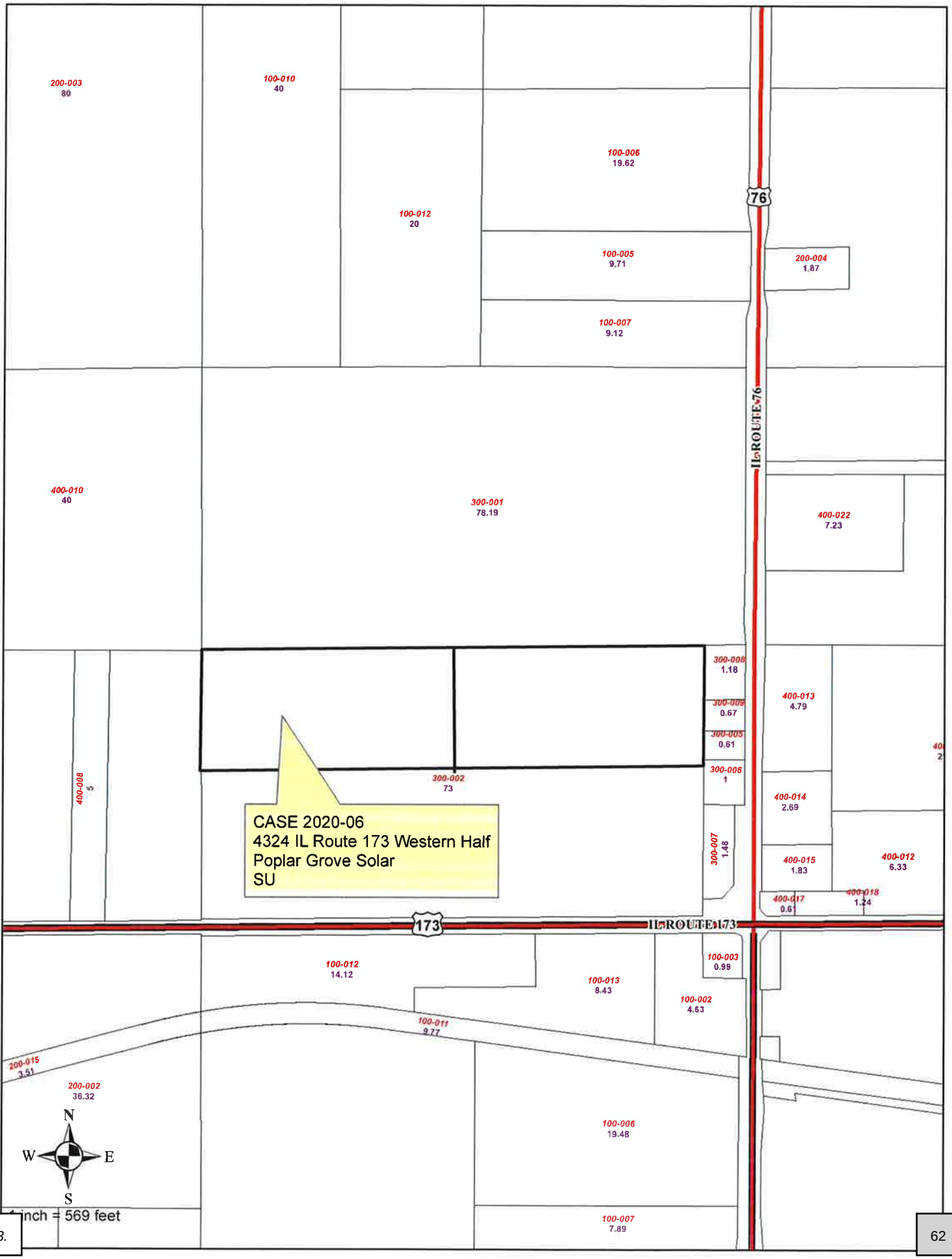
**RECOMMENDATION:**
The planning staff recommends approval of case 2020-06 subject to following conditions:

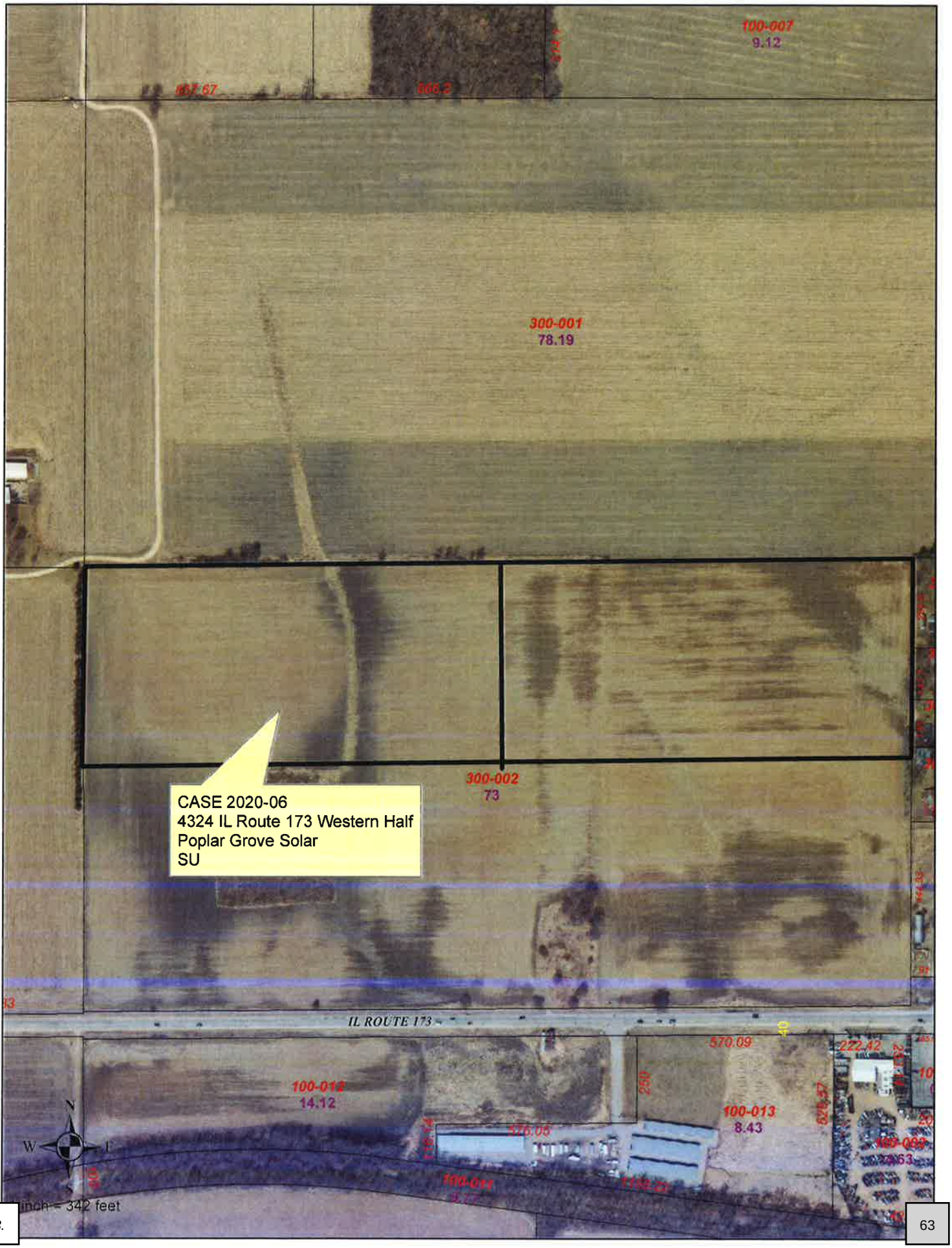
1. Substantial compliance with the narrative and site plan submitted, unless otherwise noted.
2. All vegetation shall be approved by the Boone County Conservation District. Pollinator friendly vegetation shall be used.
3. A decommissioning and reclamation plan shall be submitted to and approved by the Village of Poplar Grove prior to the commencement of the development.
4. A surety, covering the complete execution of the decommissioning and reclamation plan for when the project ends shall be posted prior to the commencement of the development.
5. An agricultural drainage tile system survey shall be conducted prior to commencement of the project. All identified drain tile shall be protected and repaired if damaged.
6. The drainage way located in Phase II shall be left unobstructed.
7. The applicant shall provide training to Boone County Fire District 3 pertaining to the hazards in conducting fire control and extinguishment of the proposed solar system.
8. Inspection risers shall be installed between PINs: 03-14-300-001 and 03-14-300-002 and Illinois Route 173

**PLANNING AND ZONING COMMISSION/VILLAGE BOARD ACTION**
The Planning and Zoning Commission shall make and forward findings of fact as to the compliance of the proposed special use with the standards and make a recommendation to the Village Board. The Village Board shall review the findings and recommendation and may accept or reject the findings and recommendation of the Planning and Zoning Commission in whole or in part; or the Village Board may refer the matter back to the Planning and Zoning Commission for further consideration. Any approval shall be considered the approval of a unique request and not be construed as precedent for any other proposed special use.

## ATTACHMENTS

1. Location Map submitted by Planning Staff.
2. Aerial Photo submitted by Planning Staff.
3. Narrative submitted by the Applicant.
4. Site Plan submitted by the Applicant.
5. Site pictures from NRI #1594.
6. Overview and Opinion from NRI #1594.
7. Drainage way and agricultural drainage tile information from NRI #1594.
8. Letter from Boone County Health Department, Amanda Mehl, September 4, 2020.
9. EcoCat result for IDNR Project 1900789.


200-003
80
100-010
40
100-006
19.62
100-012
20
100-005
9.71
200-004
1.87
100-007
9.12
76
IL ROUTE 76
400-010
40
300-001
78.19
400-022
7.23
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1.18
300-009
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300-005
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300-006
1
400-013
4.79
400-008
5
300-002
73
400-014
2.69
300-007
1.48
400-015
1.83
400-012
6.33
400-017
0.6
400-018
1.24
CASE 2020-06
4324 IL Route 173 Western Half
Poplar Grove Solar
SU
173
IL ROUTE 173
100-012
14.12
100-013
8.43
100-003
0.99
100-002
4.63
100-011
9.77
200-015
3.51
200-002
36.32
N
W
E
S
100-006
19.48
1 inch = 569 feet
100-007
7.89


100-007
9.12
667.67
666.2
300-001
78.19
300-002
73
CASE 2020-06
4324 IL Route 173 Western Half
Poplar Grove Solar
SU
IL ROUTE 173
570.09
222.42
100-012
14.12
100-013
8.43
526.05
N
W
E
S
inch = 342 feet

## EXECUTIVE SUMMARY

### Poplar Grove Solar – Phase 2

Poplar Grove Solar, LLC - Phase 2 (the "Applicant") proposes to develop a community solar project approximately 2 MW AC in size, on approximately 17 acres of land located north of Illinois Route 173 and west of Fairgrounds Road in the Village of Poplar Grove, Boone County, Illinois. The Poplar Grove Solar, LLC community solar project (the "Solar Project") will be located within a portion of the parcel with PIN 03-14-300-002 (the "Project Parcel") owned by DYN 173, LLC (the "Landowner"). The Applicant is submitting this Petition for Special Use pursuant to and in compliance with the requirements set forth under Sections 8-5-4 and 8-5-7 of the Village of Poplar Grove Zoning Ordinance (the "Zoning Ordinance"), as amended by the Applicant's approved Text Amendment Submitted July 24th, 2017.

The proposed Solar Project will serve the electricity needs of 300 to 400 homes. Once installed and commissioned, the Solar Project will be continuously monitored, and engineers and maintenance technicians will visit the Solar Project a few times a year for routine maintenance and any required repairs. Post-construction, the Solar Project will generate minimal traffic, with visits to the site occurring solely in connection with routine and required maintenance.

### About Trajectory Energy Partners, LLC

Poplar Grove Solar, LLC is a wholly owned indirect subsidiary of Trajectory Energy Partners, LLC. Trajectory Energy Partners, LLC brings together communities, organizations, and land owners to develop clean energy projects that are integrated into the local landscape and community.

### The Future Energy Jobs Act and Community Solar Projects

Under Illinois Public Act 99-0906, commonly known as the Future Energy Jobs Act ("FEJA"), the Illinois Power Agency is currently promulgating a set of regulations and incentives to allow the creation of such community solar projects. The Solar Project is intended to be a community solar project under FEJA, which would allow residential and commercial customers to subscribe to the Solar Project. The Solar Project will support FEJA's goals of increasing the adoption and availability of renewable energy to Illinois residents and businesses.

### Economic and Environmental Benefits

The Solar Project will provide economic and environmental benefits to the community. Poplar Grove residents and businesses will have an opportunity to subscribe to the Solar Project. These subscribers will support clean energy in their community while benefiting from savings on their electricity bills. In addition, the Solar Project will create new tax revenues for the community and generate economic activity through local construction, materials, and services.

Trajectory Energy Partners

**CONTENTS**


I. APPLICANT INFORMATION ..... 4

II. PROJECT DESCRIPTION ..... 4

III. TEXT AMENDMENT ..... **Error! Bookmark not defined.**

**Exhibit A**: Project Location

**Exhibit B**: Site Plan

**Exhibit C**: Zoning Diagram

**Exhibit D**: EcoCAT Consultation

**Exhibit E**: Impacts Study

Trajectory Energy Partners

# I. APPLICANT INFORMATION

The Applicant is a limited liability company, a wholly owned indirect subsidiary of Trajectory Energy Partners, LLC. Jonathan Carson is an Authorized Representative of the Applicant.

Applicant:

Poplar Grove Solar, LLC
c/o Trajectory Energy Partners, LLC
Attn: Jon Carson
P.O. Box 310
Highland Park, IL 60035
(312) 882-3713
legal@trajectoryenergy.com

Landowner:

DYN 173, LLC
c/o First Midwest Group
Attn: Marvin L. Keys
6801 Spring Creek Road
Rockford, IL, 61114
(815)-229-3000

# II. PROJECT DESCRIPTION

## a. General Description

The Solar Project will be located on approximately 17 acres in the Village of Poplar Grove, Section 14, Township 45 North, Range 3, Boone County, Illinois, Property Index Number: 03-14-300-002. See Exhibit A: Project Location.

Legal Description

PIN 03-14-300-002:

THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 14; ALSO ALL THAT PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 23, LYING NORTH OF THE RIGHT OF WAY OF THE CHICAGO NORTHWESTERN RAILWAY COMPANY, EXCEPTING FROM THE ABOVE ONE ACRE IN SAID NORTHWEST QUARTER OF SECTION 23, DEEDED TO WAYNE WHEELER, AS APPEARS OF RECORD IN BOOK 94 OF DEEDS, PAGE 533, BOONE COUNTY RECORDS, AND EXCEPTING 4.84 ACRES IN THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 14, DEED TO FLOYD NEWHOUSE, AS APPEARS OF RECORD IN BOOK 103 OF DEEDS, ON PAGE 444 ALSO EXCEPTING "TRACT A" CONTAINING .971 ACRES AND "TRACT B" CONTAINING 4.856 ACRES IN SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 14 DEED TO FLOYD NEWHOUSE AND WIFE, AS APPEARS OF RECORD IN BOOK 111 OF DEEDS PAGE 359 BOONE COUNTY RECORDS AND ALSO EXCEPTING THAT PART OF THE NORTHWEST QUARTER OF SAID SECTION 23 DEED TO JOHN BULLARD AND

WIFE, AS APPEARS OF RECORD IN BOOK 106 OF DEEDS, ON PAGE 504 BOONE COUNTY RECORDS ALL OF THE ABOVE SITUATED IN TOWNSHIP 45 NORTH, RANGE 3 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN BOONE COUNTY, STATE OF ILLINOIS AND MORE PARTICULARLY DESCRIBED AS FOLLOWS TO WIT:

PART OF THE SOUTHWEST QUARTER (1/4) OF SECTION FOURTEEN (14), TOWNSHIP FORTY-FIVE (45) NORTH, RANGE THREE (3) EAST OF THE THIRD (3RD) PRINCIPAL MERIDIAN, BOUNDED AND DESCRIBED AS FOLLOWS, TO WIT: BEGINNING AT THE SOUTHWEST CORNER OF THE SOUTHWEST QUARTER OF SAID SECTION; THENCE NORTH 00°36'51" EAST, ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 1326.34 FEET TO
THE NORTH LINE OF THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SAID SECTION; THENCE SOUTH 89°49'33" EAST, ALONG THE NORTH LINE OF THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SAID SECTION, 2400.02 FEET TO THE WEST LINE OF TRACT "A" OF PREMISES CONVEYED ALLAN B. WARES TO FLOYD NEWHOUSE AND SHIRLEY NEWHOUSE BY QUIT CLAIM DEED DATED DECEMBER 26, 1952 AND RECORDED IN BOOK 111 OF DEEDS ON PAGE 359 IN THE RECORDER'S OFFICE OF BOONE COUNTY, ILLINOIS; THENCE SOUTH 00°38'50" WEST, ALONG THE WEST LINE OF TRACT "A" OF SAID PREMISES SO CONVEYED TO NEWHOUSE AS AFORESAID AND THE SOUTHERLY EXTENSION THEREOF, 1324.88 FEET TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION; THENCE NORTH 89°51'38" WEST, ALONG THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION, 2399.26 FEET TO THE POINT OF BEGINNING. SUBJECT TO THE RIGHTS OF THE PUBLIC AND STATE OF ILLINOIS IN AND TO THOSE PORTIONS THEREOF TAKEN, USE OR DEDICATED FOR PUBLIC ROAD PURPOSES. SITUATED IN THE COUNTY OF BOONE AND STATE OF ILLINOIS

The project is located on the portion of the Project Parcel that is currently zoned as Light Industrial District. Pursuant to the Applicant's requested text amendment under Sections 8-5-4 the Zoning Ordinance, solar farms are permitted as a special use in the Light Industrial District. See Exhibit C: Zoning Diagram.

### b. Site Plan and Phases

A Site Plan detailing the placement of the solar arrays and proposed access is included in this application. The proposed Solar Project is indicated on the Site Plan as Phase 2. The Applicant is concurrently submitting a Special Use Application for Phase 1. Each Phase contains a single 2MW AC community solar farm. Pursuant to the regulations and policies implementing FEJA, a single parcel may contain up to two 2MW AC community solar farms. The incentives required to construct each community solar farm are intended to be allocated by lottery, and thus each Phase may be awarded such incentives separately, and if both receive incentives, at different times. Thus, the Applicant may construct Phase 2 prior to Phase 1, or may only construct one of the two Phases if incentives are not available for both Phases. See Exhibit B: Site Plan.

### c. Equipment Detail

The Solar Project will consist of equipment to generate electricity from solar energy, including rows of photovoltaic cell panels on a single-axis tracking system, racking, inverters, and perimeter fencing. Support poles will be driven into the ground. Transformers and other electrical equipment will be located on one to two small concrete pads measuring approximately 6' x 10' for each Phase. Panels will be installed in a north-south configuration on a rotating mounting system that will track the sun throughout the day. The panels will be

designed with an anti-reflective coating to minimize glare from the Solar Project and prevent impacts to avian wildlife including birds and bats. The Solar Project is intended to operate for a period of at least 25 years and will be constructed with solar panels and other electrical equipment with long-term warranties and very low expected rates of replacement.

The components of the Solar Project will comply with the current edition of the National Electric Code and be UL listed or meet a comparable safety standard. The Solar Project's electrical collection lines will be underground and then brought together for connection to the transmission network rather than directly to a substation. For each Phase, three on-site poles will convey powerlines to utility-owned poles and on to a proposed interconnection point within the Solar Project's footprint. See Exhibit B: Site Plan.

### d. Fencing, Access, Drainage and Landscaping

Each Phase of the Solar Project will be enclosed by a 7' chain-link fence, as required by the National Electrical Code. The Solar Project will be accessed from IL 173 along a dedicated access road and through a gated entrance with a maximum width of 24'.

Vegetation under and around the Solar Project will be maintained by periodic mowing, inspections, and weed management as appropriate. The Solar Project will add cover vegetation to the site that traditionally been utilized for row crop. In doing so, drainage and runoff is expected to improve through the improved absorption of rain and melting snow and ice. No impervious surfaces will be added to Parcel, with the exception of one to two small concrete pads measuring roughly 6' x 10' for each Phase. The Solar Project will adhere to the Illinois Environmental Protection Agency (IEPA) Construction Stormwater Permit Requirements.

In addition, the Solar Project will work with the Village and the Landowner to specify low-growing grasses or pollinator-friendly plantings to be planted as a buffer around the Solar Project. The pollinator-friendly species are intended to facilitate local pollinator habitat, improve water infiltration, prevent compaction, and control erosion while increasing microbial activity and production of organic matter.

### e. Total Height of Solar Arrays and Other Structures

The total overall height of the facility will not exceed 12'.

### f. Requested Duration

The Applicant will not be able to move forward with constructing either Phase of the Solar Project until it has received approval for Renewable Energy Credits. Both phases are currently on a waitlist for such Renewable Energy Credits (REC) and the Illinois Power Agency is expected to release additional information on additional REC awards in the future.

## g. Proposed Setback Dimensions

See Exhibit B: Site Plan

TABLE 1: SETBACK TABLE

| | Village Requirement | Proposed Setbacks |
|---|---|---|
| Light Industrial: Front | 30' | > 650' |
| Light Industrial: Western Side | 20' | > 700' |
| Light Industrial: Eastern Side | 20' | 100' with buffer plantings proposed. |
| Light Industrial: Rear | 30' | 30' |

See Exhibit B: Site Plan.

## h. Environmental Impact

The Illinois Department of Natural Resources' Ecological Compliance Assessment Tool (EcoCAT) consultation has been terminated with respect to the Solar Project site. See Exhibit D: EcoCAT Consultation.

The Solar Project will comply with all local, state, and federal environmental regulations. A Natural Resource Inventory (NRI) has been requested from the Boone County Soil and Water Conservation District.

The Solar Project shall be constructed, operated and maintained in compliance with federal, state, and local laws, including with respect to the removal and disposal of solid waste generated thereby. The Solar Project will also be maintained in a clean and neat manner, and any such solid waste will be removed as appropriate, with all costs borne by the Applicant.

## i. Ingress and Egress During Construction and Thereafter

One improved, gravel access road will provide ingress and egress from the Solar Project site to IL 173 both during construction and thereafter. The applicant will use a watering truck as necessary to control dust during construction. See Exhibit B: Site Plan.

## j. Construction and Maintenance; Traffic

The active construction period for each Phase of the Solar Project is expected to begin at the earliest in Spring 2021 and the construction of each Phase will last approximately 3 to 6 months. Construction will require trucks no larger than a typical 18-wheeler to deliver materials to the site, and onsite equipment will be used to drive pilings into the ground and install the panels, supports, and tracking equipment. Construction workers and personnel will

arrive in pick-up trucks. Typically, solar installations do not require the use of cranes. Construction hours will follow a typical daily construction schedule.

The operations and maintenance of the Solar Project will generate minimal traffic. Because the Solar Project will be continuously monitored electronically off-site, engineers and maintenance technicians will visit the Solar Project a few times a year for routine maintenance and any repairs. Landscaping will be managed regularly during the growing season as described below.

### k. Public Road Routes

The public road route will utilize IL 173, which is paved and designed for construction traffic.

### l. Warning Signage

The Applicant will place signs warning of high voltage at the entrance to the solar facility as well as on the base of all pad mounted transformers. In addition, the Solar Project will prominently display a sign providing emergency contact information including the name of the solar facility, address, and the emergency contact telephone numbers for the Solar Project and the Operations and Maintenance contractor.

### m. Conformance to Industry and Code Standards/Engineer Certification

The Solar Project will comply with all applicable local and county codes for the electrical, mechanical, and structural components of the facility.

### n. Lighting

The Solar Project does not require lighting. No lighting will be installed.

### o. Decommissioning

Upon the cessation of operations of the Solar Project, the Applicant will remove the installed Solar Project equipment and restore the site pursuant to its obligations to the Landowner, and will comply with the requirements of any governmental agency respecting the decommissioning and reclamation obligations for the Parcel. In connection with such decommissioning, the Applicant will remove the above-ground structures as well as the installed underground electrical equipment.

### p. Property Value Impacts

Property valuation experts from CohnReznick have studied the value of properties that adjoin solar farms in Illinois and Indiana and concluded that the solar farms do not adversely affect the property values in either the short or long term.

The study included solar farms in Lasalle and Winnebago Counties in Illinois; as well as Elkhart, Lake, Madison, Marion and Porter Counties in Indiana. Experts analyzed property sale prices and marketability of single family homes and agricultural land that adjoins solar farms and compared this data to comparable properties in the same county. The study also included interviews with county assessors and local real estate professionals, all of whom concluded that

solar farms in their area had not impacted property values. Similar research has been conducted in other states across the U.S. and none of these studies have found that solar farms adversely affect nearby property values. Please see Exhibit E: Impacts Study.

## q. Owners of Record

The following landowners are adjacent to the Project Parcel:

| PIN# | Name/Trust No. | Street | City | Zip |
|---|---|---|---|---|
| 03-15-400-011 | LINDBERG, DONALD A TR | 3952 IL ROUTE 173 | Caledonia | 61011 |
| 03-15-400-010 | LINDBERG, DONALD A TR | 3952 IL ROUTE 173 | Caledonia | 61011 |
| 03-14-300-001 | LINDBERG, DONALD A TR | 3952 IL ROUTE 173 | Caledonia | 61011 |
| 03-14-300-008 | MCINTYRE, MICHAEL S & JANE A (HAAS) | 15302 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-009 | RABE, DALE A & CANDY E | 15270 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-005 | RABE, BENJAMIN | 15246 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-006 | GUTHRIE, GLENN S & COLLEEN | 15214 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-007 | DELIJAHN INCORPORATED | PO BOX 305 | Caledonia | 61011 |
| 03-23-100-003 | NEBIU, ERGEN & NADRIT & MURAT | 4481 IL ROUTE 173 | Caledonia | 61011 |
| 03-23-100-002 | GRACEFFA, PETER J | 4557 IL ROUTE 173 | Caledonia | 61011 |
| 03-23-100-013 | POPLAR GROVE STORAGE LLC | 6801 SPRING CREEK RD | Rockford | 61114 |
| 03-23-100-012 | DYN 173 LLC | 6801 SPRING CREEK RD | Rockford | 61114 |
| 03-22-200-002 | BOONE/POPLAR GROVE LLC | 6277 E RIVERSIDE BLVD | Rockford | 61114 |

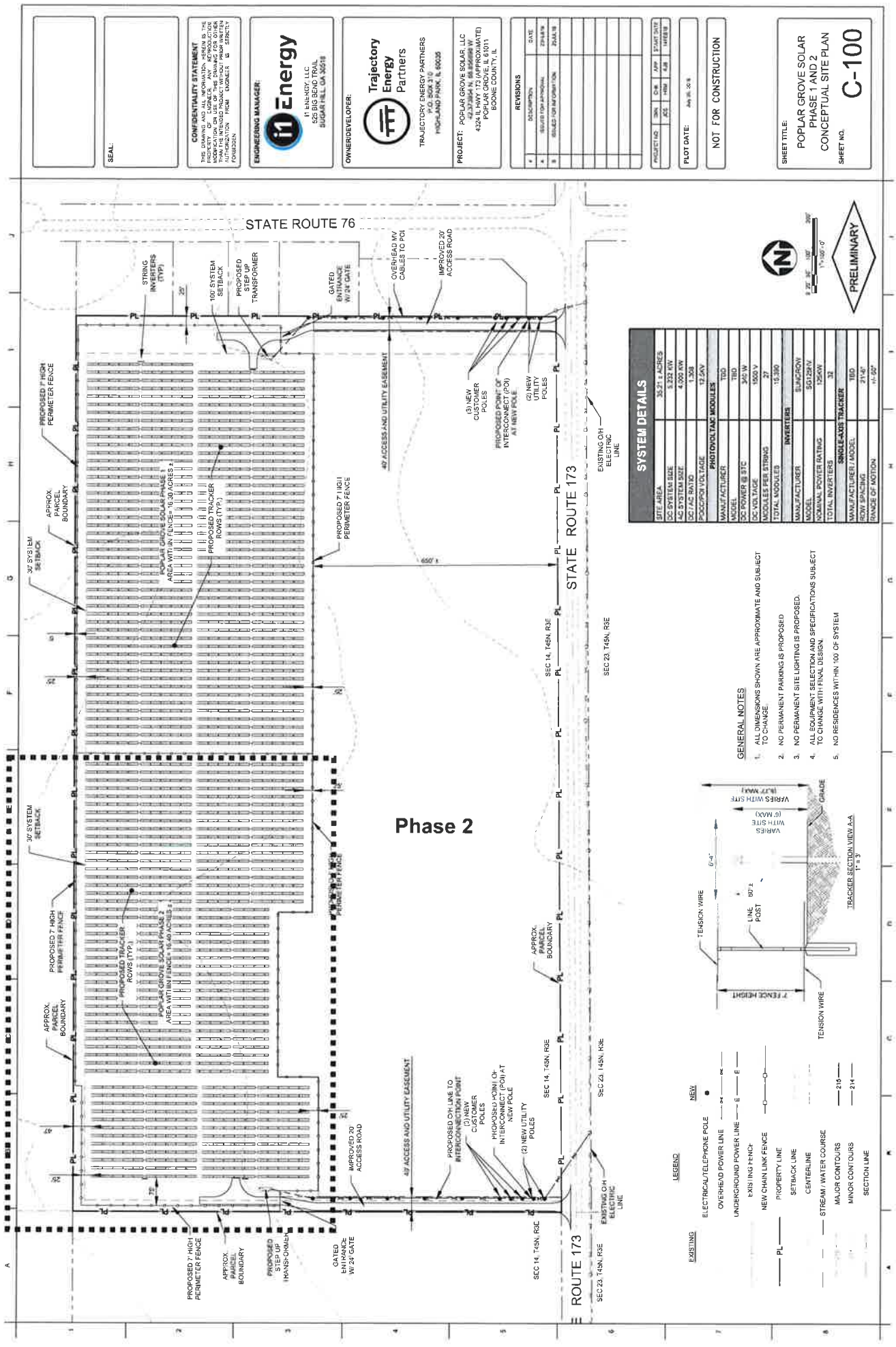
## r. Special Use for Corporations, Partnerships, and Joint Venture

a. The Applicant is not a corporation, partnership or joint venture.
b. The Applicant is not doing business under an assumed name.
c. The Applicant is acting on its behalf.
d. Poplar Grove Solar, LLC is a wholly owned indirect subsidiary of Trajectory Energy Partners, LLC, P.O. Box 310, Highland Park, IL 60035.

## s. Special Use Fees

The Applicant has enclosed the filing fee with this application.

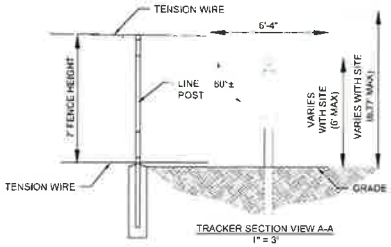
**Exhibit B**: Site Plan






LEGEND

| EXISTING | NEW |
|---|---|
| | ELECTRICAL/TELEPHONE POLE |
| | OVERHEAD POWER LINE |
| | UNDERGROUND POWER LINE |
| | EXISTING FENCE |
| | NEW CHAIN LINK FENCE |
| PL | PROPERTY LINE |
| | SETBACK LINE |
| | CENTERLINE |
| | STREAM / WATER COURSE |
| | MAJOR CONTOURS |
| | MINOR CONTOURS |
| | SECTION LINE |




TRACKER SECTION VIEW A-A
1" = 3'

GENERAL NOTES

1. ALL DIMENSIONS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE.
2. NO PERMANENT PARKING IS PROPOSED
3. NO PERMANENT SITE LIGHTING IS PROPOSED.
4. ALL EQUIPMENT SELECTION AND SPECIFICATIONS SUBJECT TO CHANGE WITH FINAL DESIGN.
5. NO RESIDENCES WITHIN 100' OF SYSTEM

| SYSTEM DETAILS | |
|---|---|
| SITE AREA | 35.21 ± ACRES |
| DC SYSTEM SIZE | 5,232 KW |
| AC SYSTEM SIZE | 4,000 KW |
| DC / AC RATIO | 1.308 |
| POCC/POI VOLTAGE | 12.5KV |
| **PHOTOVOLTAIC MODULES** | |
| MANUFACTURER | TBD |
| MODEL | TBD |
| DC POWER @ STC | 340 W |
| DC VOLTAGE | 1500 V |
| MODULES PER STRING | 27 |
| TOTAL MODULES | 15,390 |
| **INVERTERS** | |
| MANUFACTURER | SUNGROW |
| MODEL | SG125HV |
| NOMINAL POWER RATING | 125KW |
| TOTAL INVERTERS | 32 |
| **SINGLE-AXIS TRACKER** | |
| MANUFACTURER / MODEL | TBD |
| ROW SPACING | 21'-6" |
| RANGE OF MOTION | +/- 60° |

N

0 20' 50' 100' 200'
1"=100'-0"

PRELIMINARY

SEAL:

CONFIDENTIALITY STATEMENT

THIS DRAWING AND ALL INFORMATION HEREIN IS THE PROPERTY OF ENGINEER. ANY REPRODUCTION, MODIFICATION OR USE OF THIS DRAWING FOR OTHER THAN THE INTENDED PROJECT WITHOUT PRIOR WRITTEN AUTHORIZATION FROM ENGINEER IS STRICTLY FORBIDDEN.

ENGINEERING MANAGER:

i1 Energy

i1 ENERGY, LLC
525 BIG BEND TRAIL
SUGAR HILL, GA 30518

OWNER/DEVELOPER:

Trajectory Energy Partners

TRAJECTORY ENERGY PARTNERS
P.O. BOX 310
HIGHLAND PARK, IL 60035

PROJECT: POPLAR GROVE SOLAR, LLC
42.373954 N, 88.856898 W
4324 IL HWY 173 (APPROXIMATE)
POPLAR GROVE, IL 61011
BOONE COUNTY, IL

| REVISIONS | | |
|---|---|---|
| # | DESCRIPTION | DATE |
| A | ISSUED FOR APPROVAL | 10/11/18 |
| B | ISSUED FOR INFORMATION | 10/4/18 |

| PROJECT NO | DRN | CHK | APP | START DATE |
|---|---|---|---|---|
| | JCS | HWM | RJB | 10/FEB/18 |

PLOT DATE: July 25, 2019

NOT FOR CONSTRUCTION

SHEET TITLE:
POPLAR GROVE SOLAR
PHASE 1 AND 2
CONCEPTUAL SITE PLAN

SHEET NO.
C-100

4. Site Photographs




**Figure 2.** View toward AOI, looking northwest toward structures at 3952 Illinois Route 173, Caledonia, Illinois (top left); Area for proposed access road and chain link fence along western property boundary, looking north (top right); Drainage way (circled in orange), looking southeast (bottom).

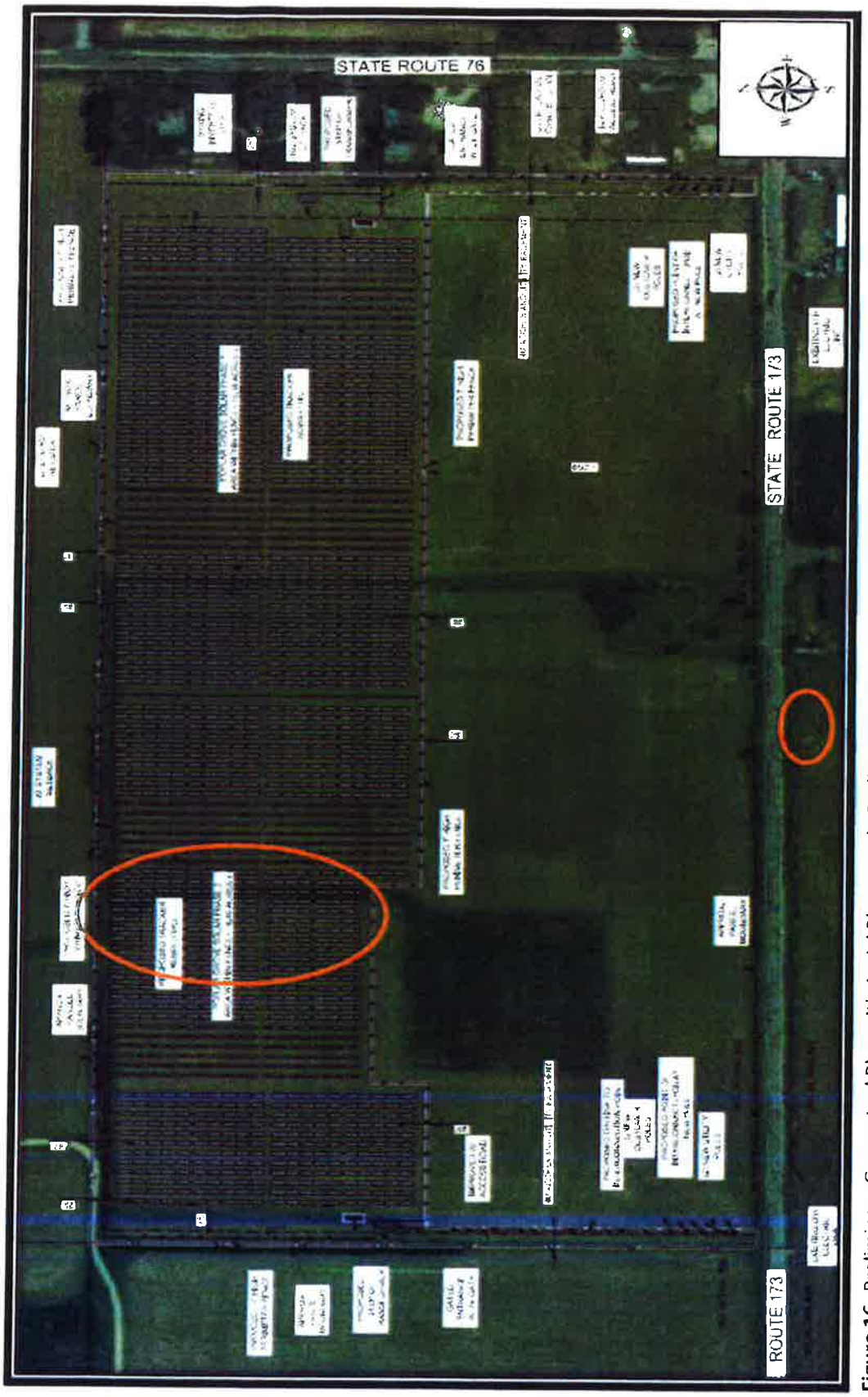



**Figure 16.** Preliminary Conceptual Plan with Aerial Photograph. Preliminary site plan (provided by Trajectory Solar Partners) illustrates some solar arrays are proposed within main drainage way (circled in orange). This drainage area should be left unobstructed to avoid additional ponding (Tables 9 & 10). Approximate location of tile breather, south of Illinois Route 173, is also circled in orange, but not in AOI. The tile breather indicates water is likely being intercepted from the AOI and neighboring properties. If drainage tile systems are disrupted, additional ponding and flooding will likely occur. Drainage tiles should be located and protected prior to construction. Disruptions of tiles can also lead to additional ponding (Table 10).

Appendix D—Adjacent Property Tile Drainage Maps

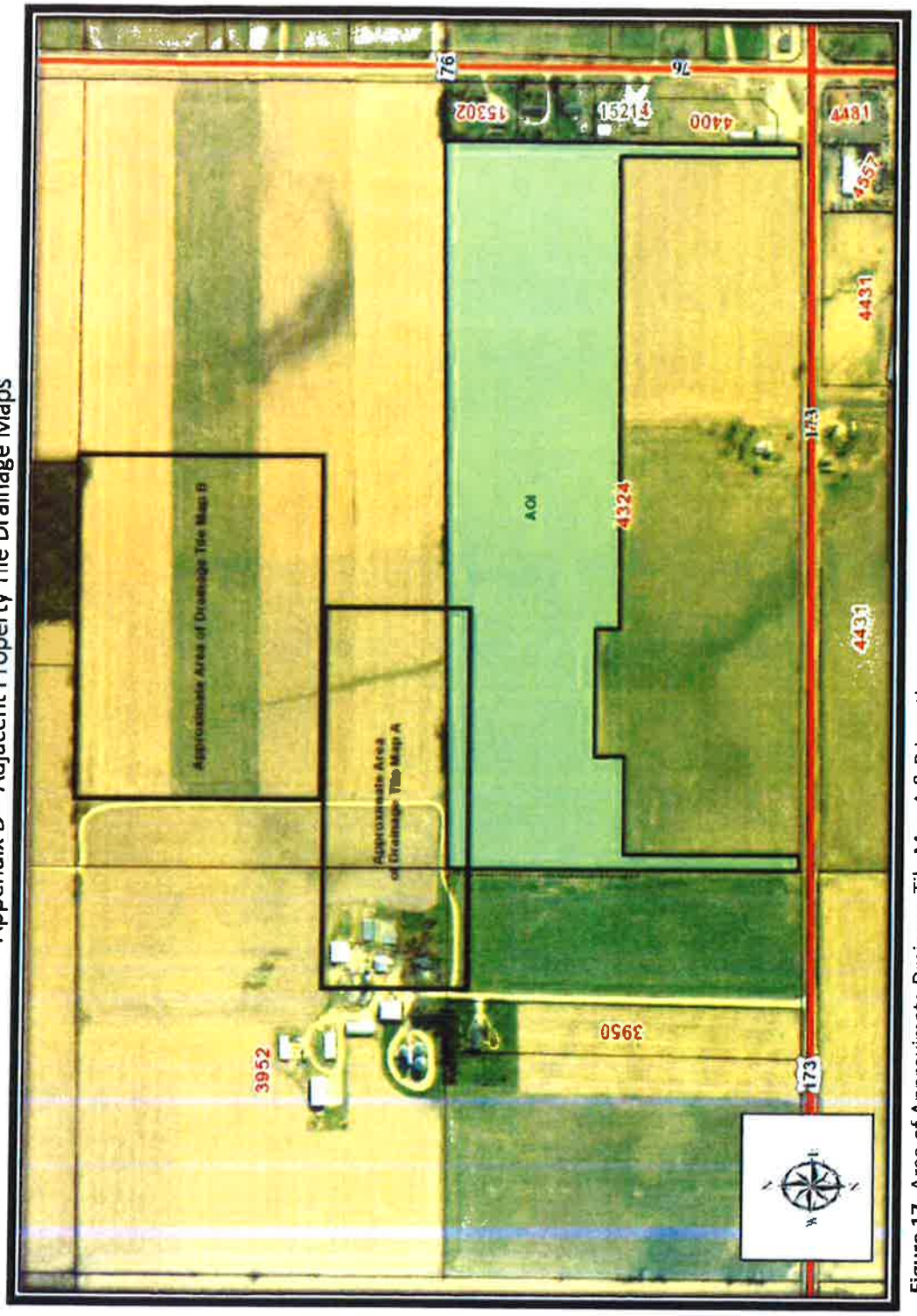



**Figure 17.** Area of Approximate Drainage Tile Map A & B Locations.

## 15. Overview

This report details information for several natural resource topics. Most of the details for individual topics are presented in a special section. This section highlights the natural resource concerns, which are most important to this site, the environment, and the community:

1. The land evaluation score for this site is 84.42 (Table 13) and most soils are listed as prime farmland or prime farmland when drained (Table 6). The BCSWCD Board has historically opposed zoning changes with land evaluation scores of 69 points or higher; however, characteristics of the proposed project may also influence the Board's final decision.

2. It appears some solar arrays are proposed within a main drainage way (Figures 15 & 16). These areas should be left unobstructed to avoid additional ponding (Tables 9, & 10). Likewise, within a main drainage way Sable silty clay loam (68A) is present. This soil has characteristics that describe it as 85 percent hydric (Figure 9; Table 8), poorly drained (Table 9), and frequently ponds (Table 10). Approximately eight percent of the AOI contains hydric soils (Figure 9; Table 8)

3. Based on mapped soil types, topography, watershed data, and an onsite investigation, a complex agricultural drainage tile system is likely present and should be ***located and protected prior to construction***. During onsite inspection a main drainage way was noticeable near the northwest AOI boundary (Figure 2). Drainage tile maps have been provided from adjacent properties and illustrate several existing drainage tiles (some old clay tiles are also included) (Appendix D). References and maps show a natural drainage from northern border of the AOI trending south-southeast towards Illinois Route 173. Corn crop on this parcel currently masks evidence of any physical drainage way. Additionally, a tile breather south of Illinois Route 173 across from expected natural drainage way was observed during the site inspection, indicated water is likely being intercepted from the AOI and neighboring properties. If drainage tile systems are disrupted, additional ponding and flooding will likely occur.

4. Hydric soils are expected at this site, with approximately eight percent of the AOI expected to be hydric (Figure 9; Table 8).

5. Approximately 197 acres drain through this parcel and into Beaver Creek (Figure 10).

6. If this special use is approved and acreage of land disturbance is greater than one acre in size, a National Pollutant Discharge Elimination System Permit (NPDES Permit) will be required. Temporary soil stabilization, control of sediment during construction and permanent site stabilization after construction is completed is required under a NPDES permit.

## 2. Opinion of the BCSWCD Board

Jon Carson, on behalf of Trajectory Energy Partners, LLC., has submitted a request for a Natural Resources Information Report as part of an application for a Special Use for a solar energy facility in Section 14 of Poplar Grove Township. The Area of Interest (AOI) is less than a tenth of a mile west of the intersection of Illinois Route 76 and Illinois Route 173. The parcel identification number is 03-14-300-002; however, only about half of this parcel is proposed for the solar facility project.

The Boone County Soil & Water Conservation District Board has a

- [x] Favorable
- [ ] Unfavorable
- [ ] Other: _____

opinion of the proposed land use change. The Board concerns are stressed in the "Overview" section of the report. More detailed information is presented throughout the various sections of this document.

Signature of Board Chairman:

Bill Hall on 8-17-2018

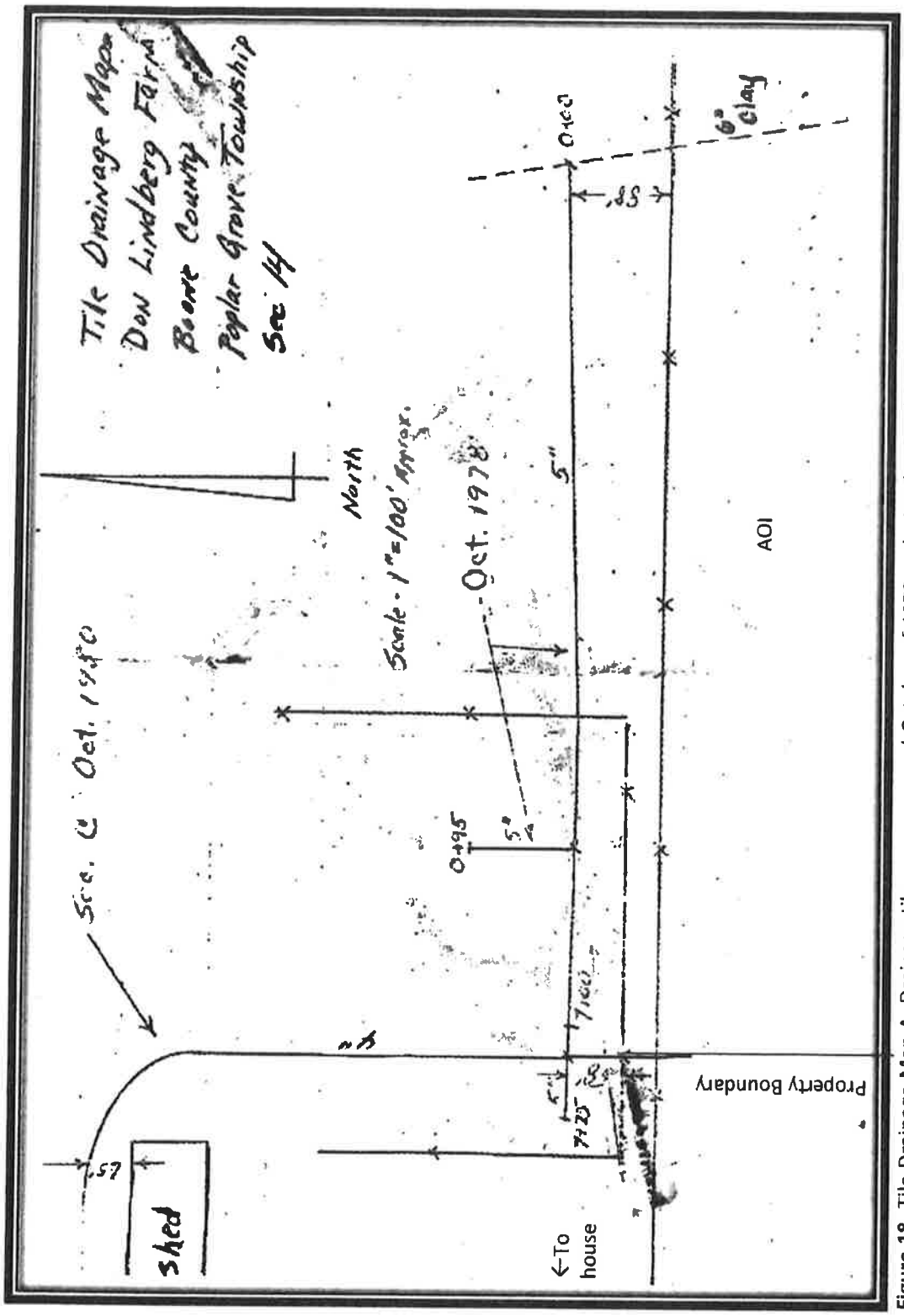



**Figure 18.** Tile Drainage Map A. Drainage tiles were mapped October of 1978 and 1980 by Lischka Drainage. Map illustrates there is a 6" clay tile present and enters into the AOI. There is approximately 2,980 linear feet of drainage tile mapped. Tile drainage map was provided by Don Lindberg August 15, 2018 and modified to define property boundary, location to house, and AOI.

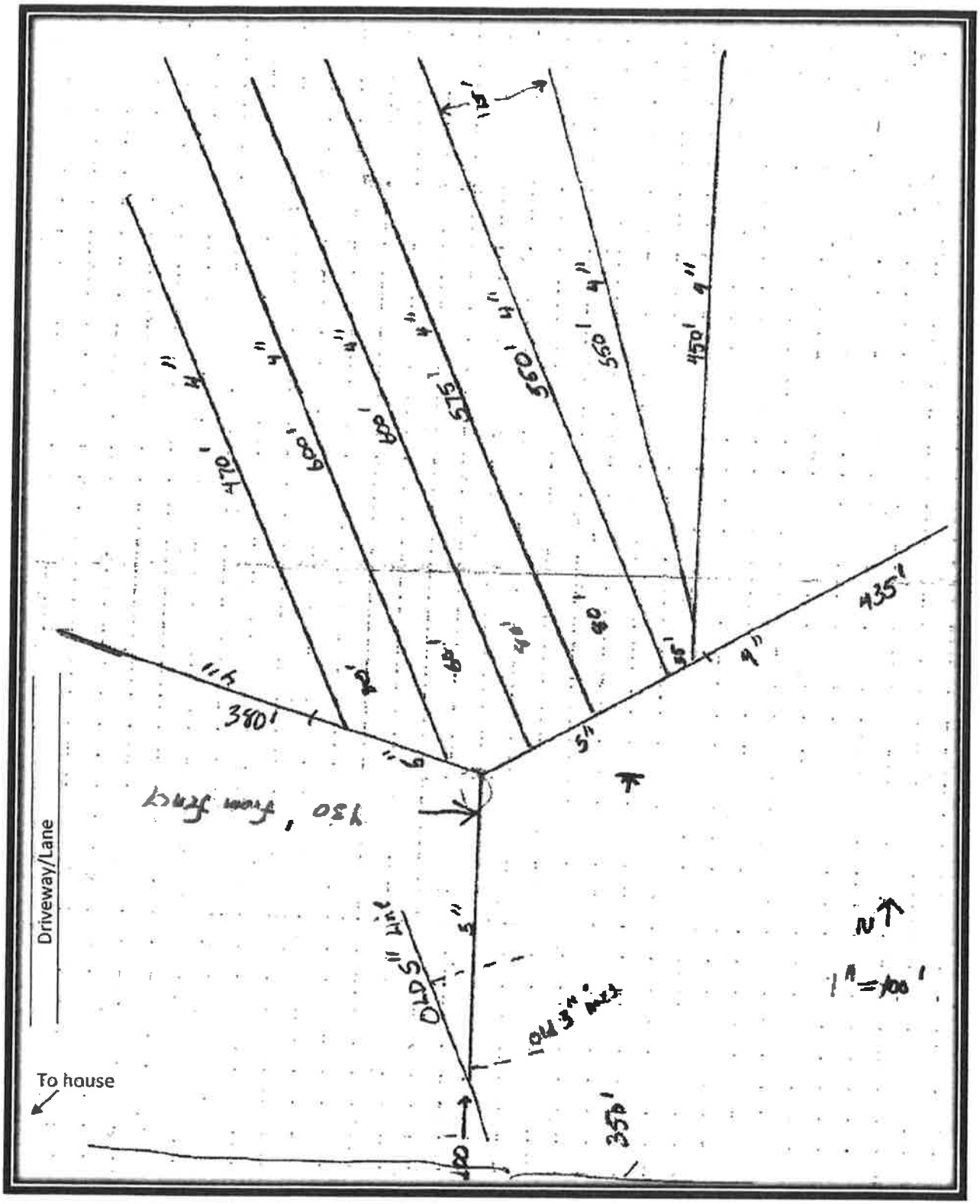



**Figure 19.** Tile Drainage Map B. Drainage tiles were mapped November 2000. There is approximately 5,040 linear feet of drainage tile mapped. This also indicates there are old 3" and 5" clay tiles. Tile drainage map was provided by Don Lindberg August 15, 2018 and was modified to include location to house and driveway/ lane boundary locations.

xiii

Public Health
Prevent. Promote. Protect.

**Boone County Health Department**
1204 Logan Avenue, Belvidere, Illinois 61008
Main Office 815.544.2951 Clinic 815.544.9730 Fax 815.544.2050
www.boonehealth.org

***The mission of the Boone County Health Department is to serve our community by preventing the spread of disease, promoting optimal wellness & protecting the public's health.***

September 04, 2020

FAX: 815-547-0789

Gina DelRose
Community Development Planer
401 Whitney Blvd Suite 300
Belvidere, IL 61008

Planning Services for Village of Poplar Grove

Re: Case: 2020-06, Poplar Grove Solar, LLC, 4324 IL Route 173 (West half)

Dear Gina,

We are in receipt of a copy for a Special use request. Specifically, to install non-building mounted solar collectors (total of 18 acres, western phase).

Our office has no objections or comments on this request.

Thank you,

Amanda Mehl
Administrator of Public Health
AT

# Exhibit D: EcoCAT Consultation

EcoCAT
Ecological Compliance Assessment Tool

| | | | |
|---|---|---|---|
| *Applicant:* | Trajectory Energy Partners, LLC | *IDNR Project Number:* | 1900789 |
| *Contact:* | Joshua Bushinsky | *Date:* | 07/24/2018 |
| *Address:* | PO Box 310<br>Highland Park, IL 60035 | *Alternate Number:* | COM_BOO_001 |
| *Project:* | Trajectory-Boone County-Poplar Grove | | |
| *Address:* | 4324 IL 173, Poplar Grove | | |

*Description:* Install solar energy infrastructure

## Natural Resource Review Results

**Consultation for Endangered Species Protection and Natural Areas Preservation (Part 1075)**

The Illinois Natural Heritage Database contains no record of State-listed threatened or endangered species, Illinois Natural Area Inventory sites, dedicated Illinois Nature Preserves, or registered Land and Water Reserves in the vicinity of the project location.

**Consultation is terminated.** This consultation is valid for two years unless new information becomes available that was not previously considered; the proposed action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the project has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary. Termination does not imply IDNR's authorization or endorsement.

**Location**
The applicant is responsible for the accuracy of the location submitted for the project.

*County:* Boone

*Township, Range, Section:*
45N, 3E, 14



**IL Department of Natural Resources Contact**
Bradley Hayes
217-785-5500
Division of Ecosystems & Environment

**Government Jurisdiction**
Village of Poplar Grove
Gina DelRose
200 N. Hill Street
Village of Poplar Grove, Illinois 61065

**Disclaimer**

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

**Terms of Use**

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.

2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.

3. IDNR reserves the right to enhance, modify, alter, or suspend the website at any time without notice, or to terminate or restrict access.

**Security**

EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law.

Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

**Privacy**

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.

# MEMO

**DATE:** September 24, 2020

**TO:** Poplar Grove Village Board

**FROM:** Village of Poplar Grove Planning and Zoning Commission

**SUBJECT:** Findings of Fact for Case 2020-06: Poplar Grove Solar, LLC, 4324 IL Route 173 (West Half)

**REQUEST AND LOCATION:**
The applicant, Poplar Grove Solar, PO Box 310, Highland Park, IL 60035, on behalf of the property owner, DYN 173, LLC (First Midwest Group), 6801 Spring Creek Road, Rockford, IL 61114, is requesting a special use to install non-building mounted solar collectors (total of 18 acres, western phase) for export of energy for use by an electrical utility at 4324 Illinois Route 173 within LI, Light Industrial District (Poplar Grove Zoning Ordinance Sections 8-6-11-B-2 and 8-5-7 Special Use. Part of PIN: 03-14-300-002. The property is rectangular in shape and is currently being farmed. The solar farm will be on the northwestern part of the property, away from Illinois Route 173. There is a cluster of single family residential to the east and a farmstead to the northwest. Please note that this is the same special use that was requested in 2018 but was never constructed.

**FINDINGS OF FACT:**
Per Section 8-5-7(D) of the Village of Poplar Grove Zoning Ordinance, the criteria for granting a Special Use Permit are as follows:

**A.** **Findings: The establishment, maintenance or operation of the special use would not be detrimental to or endanger the public health, safety, morals, comfort or general welfare.**

There are many kinds of solar farms, each having their own set of environmental impacts. Solar farms can be thousands of acres in size. Some require that all vegetation be removed which impacts wildlife by loss of habitat; some are constructed on cement pads that increase surface water run-off; some radiate heat and some feed into a tower that can be dangerous for birds and insects. The proposed solar farm will be 36 acres in size, have adequate vegetation, create minimal surface water run-off and is not anticipated to create a noticeable amount of heat or glare.

Considering the existing zoning of the property and the potential development that is permitted, the solar farms, with proper conditions of approval, would have less of an impact to neighboring properties. An increased setback is being utilized along the west property line to provide an additional buffer between the project and nearby properties. The addition of pollinating plants will benefit the community while providing a low maintenance vegetative cover rather than grass seed which can become unsightly.

**B.** **Findings: The special use would not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted or substantially diminish or impair property values within the neighborhood.**

Industrial and commercial development are already permitted. The solar farm will be required to adhere to all local, state and federal regulations in addition to the conditions of approval. The height (and potential shadow casting) and lot coverage of the solar panels are less than the amount permitted while the setbacks are greater. The amount of traffic generated by the solar farm is less than that created by an industrial or commercial development. Due to the NRI report, drainage ways and agricultural drainage tiles were discovered and can now be protected.

**C. <u>Findings</u>: The establishment of the special use will not impede the normal or orderly development and improvements of the surrounding property for uses permitted in the district.**

The solar farms are not anticipated to impact the ability of the surrounding properties to be used agriculturally. The addition of pollinators is intended to be a benefit to the agricultural community. The solar farm is not anticipated to create additional heat, odor, light or noise that would infringe on the nearby residents' enjoyment of their properties.

**D. <u>Findings:</u> Adequate utilities, access roads, drainage and/or necessary facilities will be provided.**

The property is located along Illinois Route 173 which can adequately handle construction equipment and increased traffic during construction. Access roads, drainage and additional power lines and power poles will be installed by the developer in accordance to the project's needs and submitted narrative and site plan.

**E. <u>Findings:</u> Adequate measures have been taken to provide ingress or egress so designed as to minimize traffic congestion in the public streets.**

Once construction of the special use is complete, there will be minimal traffic generated by the routine maintenance and monitoring of the site. An access road will be wide enough to handle two-way traffic, for instance, when multiple vehicles are present.

**F. <u>Findings:</u> The special use shall, in all other respects, conform to the applicable regulations of the districts in which it is located.**

The special use will be required to conform to all the applicable regulations of the Zoning Ordinance, the Subdivision Ordinance, all other regulations and to any conditions of approval enacted by the Village Board.

**The motion to adopt the Findings of Fact for case 2020-06 for a special use to permit a solar farm at 4324 IL Route 173 (West Half) carried with a (4-0) roll call vote.**

_____

Jessica Roberts, Chairman
Poplar Grove Planning and Zoning Commission

RENO&ZAHM LLP
ATTORNEYS AND COUNSELORS

MICHAEL G. SCHULTZ
MGS@RENOZAHM.COM

September 22, 2020

Poplar Grove Planning and Zoning Commission
200 N. Hill Street
Poplar Grove IL 61065

**Re: Cases 2020-05 and 2020-06**
**Poplar Grove Solar, 4324 IL Rt. 173**

Dear Commissioners:

This firm represents Don and Karen Lindberg who own three parcels of property adjacent to the proposed solar projects. One adjacent parcel (03-15-400-010) includes two residences, including Don and Karen's home on the southeast corner of the parcel closest to the proposed solar power facility. The Lindbergs have lived and farmed this property for generations (over 100 years). When this project was originally proposed (and approved) in 2018, the Lindbergs raised a number of concerns relating to drainage, setbacks and decommissioning. The Lindbergs feel comfortable with the conditions imposed on the previous special use (and request those same conditions be imposed), with one exception.

Condition number five (5) reads: "An agricultural drainage tile system survey shall be completed prior to commencement of the project. All identified drain tile shall be protected and repaired if damaged." We are concerned that this condition leaves ambiguity both in terms of the extent/definition of an "agricultural drainage tile system survey" and the time period during which the applicant must protect and repair damaged tile or the drainage system. We believe the protection and repair condition should apply to the entire period of the special use.

On September 20, 2020, the Boone County Soil & Water Conservation District sent the Village a letter of concern (attached for your ease of reference). The BCSWCD recommended certain conditions. Based on the recommended conditions from the BCSWCD, we request the Village adopt the following condition to replace condition number five (5) for both applications:

> "A subsurface agricultural investigation and survey shall be performed to accurately locate, map, and protect tiles, prior to any construction activity. The drainage system shall be protected and repaired or replaced, as necessary, during

the term of the Special Use to avoid any issues with the Illinois Drainage Law and any unforeseen flooding or impact to drainage that could negatively impact this project or any adjacent landowners."

We believe the above language closes any ambiguities, complies with Illinois drainage law, and ensures the BCSWCD's concerns are addressed. We also do not believe the condition imposes any undue burden or expense on the applicant. Rather the condition ensures the status quo and enables the Lindbergs to continue farming their adjacent property.

We appreciate your consideration.

Sincerely,

Michael G. Schultz

MGS:smc
Enclosure
cc: Don and Karen Lindberg
Gina DelRose, Zoning/Planning (gdelrose@ci.belvidere.il.us)
Aaron Szeto, Village Attorney (aaron@sosnowskiszeto.com)
Owen Costanza, Village President (president@villageofpoplargrove.com)
Trajectory Energy Partners, LLC, Applicant (jcarson@trajectoryenergy.com)

Boone County
**Soil & Water**
Conservation District

211 N. Appleton Road
Belvidere, IL 61008
815-544-2677 x3

September 20, 2020

Village of Poplar Grove
200 S. Hill St.
Poplar Grove, Il 60165

Planning Officials of Poplar Grove:

Mr. Donald Lindberg contacted our office last week regarding concern for agricultural drainage tile on his farmland, adjacent and upslope to a proposed site for solar development on Illinois Route 173 within the Village of Poplar Grove jurisdiction. I would like to highlight a couple comments and emphasize the utilization of our natural resource's information report #1594, which was completed on August 17, 2018. Within this report on page 40 there is the proposed conceptual solar array plan. Based on site inspections and discussions with the adjacent landowner, Mr. Lindberg, there is an agricultural tile that goes through an area of proposed development (a tile riser is found on the southside of Illinois Route 173 that also supports this).

To protect this agricultural tile, it is ***highly recommended*** a subsurface agricultural investigation shall be performed to accurately locate, map, and protect tiles, prior to any construction activity. The system shall be protected during the term of the Special Use and to avoid any issues with the Illinois Drainage Law and any unforeseen flooding that could negatively impact this project, as well as the adjacent landowner upslope of the proposed project. A potential to protect both adjacent upslope landowner and project area, could include installation of an agricultural inspection riser; which would allow easier access to visually monitor water leaving the Lindberg property and entering the proposed project area. Here is it also emphasized to remind the applicant to abide by the Illinois Department of Agriculture's (IDOA) Agricultural Impact Mitigation Agreement (AIMA) where if tile is compromised it should be replaced to better or like kind.

Sincerely:

Jennifer Becker

Jennifer Becker
Administrative Coordinator/ Resource Analyst
Boone County SWCD

**ORDINANCE # 2020_____**

**AN ORDINANCE GRANTING A SPECIAL USE FOR A SOLAR FARM WITHIN THE LI, LIGHT INDUSTRIAL DISTRICT (4324 Illinois Route 173 (West Half))**

**WHEREAS,** the Village of Poplar Grove has adopted Title 8, Zoning in accordance with the provisions of Illinois Compiled Statutes, to regulate the use of land and specify the minimum requirements for improvements on land in the Village of Poplar Grove; and

**WHEREAS,** special uses are certain municipal or private uses that due to their physical or operational characteristics may pose a threat to the value, use and enjoyment of adjoining property and are reviewed on a case by case basis, and are permitted only by permission of the Poplar Grove Village Board; and,

**WHEREAS,** the applicant, Poplar Grove Solar, PO Box 310, Highland Park, IL 60035 on behalf of the property owner, DYN 173 LLC (First Midwest Group), 6801 Spring Creek Road, Rockford, IL 61114 has petitioned the Village for a special use for a solar farm at 4324 Illinois Route 173 (West Half); and,

**WHEREAS,** after due notice by publication pursuant to the Illinois State Statutes, the Village of Poplar Grove Planning and Zoning Commission held a public hearing on September 23, 2020 concerning the proposed special use; and,

**WHEREAS,** the Village of Poplar Grove Planning and Zoning Commission having examined said application and having considered the evidence, both oral and documentary, and being fully advised about the premises did make findings of fact and a recommendation; and,

**WHEREAS,** the corporate authorities of the Village considered the findings of fact and concur with the recommendation of the Planning and Zoning Commission.

**NOW THEREFORE, BE IT ORDAINED BY THE PRESIDENT AND VILLAGE BOARD OF THE VILLAGE OF POPLAR GROVE, BOONE COUNTY, ILLINOIS, AS FOLLOWS:**

**Section 1.** That a special use in the LI, Light Industrial District for a solar farm on the property (as depicted on Attachment A) legally described as:

> The South Half of the Southwest Quarter of Section 14; also all that part of the North Half of the Northwest Quarter of Section 23, lying North of the right of way of the Chicago Northwestern Railway Company, excepting

from the above one acre in said Northwest Quarter of Section 23, deeded to Wayne Wheeler, as appears of record in Book 94 of Deeds, Page 533, Boone County Records, and excepting 4.84 acres in the South Half of the Southwest Quarter of Section 14, deed to Floyd Newhouse, as appears of record in Book 103 of Deeds, on Page 444 also excepting "Tract A" containing .971 acres and "Tract B" containing 4.856 acres in South Half of the Southwest Quarter of Section 14 deed to Floyd Newhouse and Wife, as appears of record in Book 111 of Deeds, Page 359 Boone County Records and also excepting that part of the Northwest Quarter of said Section 23 Deed to John Bullard and Wife, as appears of Record in Book 106 of Deeds, on Page 504 Boone County Records all of the above situated in Township 45 North, Range 3 East of the Third Principal Meridian, in Boone County, State of Illinois and more particularly described as follows to wit:

Part of the Southwest Quarter (1/4) of Section Fourteen (14), Township Forty-Five (45) North, Range Three (3) East of the Third Principal Meridian, bounded and described as follows, to wit: Beginning at the Southwest Corner of the Southwest Quarter of said Section; thence North 00 degrees 36 minutes 51 seconds East, along the West line of the Southwest Quarter of said Section 1326.34 feet to the North Line of the South Half of the Southwest Quarter of said Section; thence South 89 degrees 49 minutes 33 seconds East, along the North Line of the South Half of the Southwest Quarter of said Section 2400.02 feet to the West Line of "Tract A" of premises conveyed Allan B. Wares to Floyd Newhouse and Shirley Newhouse by quit claim deed dated December 26, 1952 and recorded in Book 111 of Deeds on Page 359 in the Recorder's Office of Boone County, Illinois; thence South 00 degrees 38 minutes 50 seconds West, along the West Line of "Tract A" of said premises so conveyed to Newhouse as aforesaid and the Southerly extension thereof, 1324.88 feet to the South Line of the Southwest Quarter of said Section; thence North 89 degrees 51 minutes 38 seconds West, along the South Line of the Southwest Quarter of said Section 2399.26 feet to the Point of Beginning, subject to the rights of the public and State of Illinois in and to those portions thereof taken, used or dedicated for public road purposes. Situated in the County of Boone and State of Illinois. Part of PIN: 03-14-300-002.

Be and is hereby approved, subject to the following conditions:

1. Substantial compliance with the narrative and site plan submitted, unless otherwise noted.
2. All vegetation shall be approved by the Boone County Conservation District. Pollinator friendly vegetation shall be used.

3. A decommissioning and reclamation plan shall be submitted to and approved by the Village of Poplar Grove prior to the commencement of the development.
4. A surety, covering the complete execution of the decommissioning and reclamation plan for when the project ends shall be posted prior to the commencement of the development.
5. A subsurface agricultural investigation and survey shall be performed to accurately locate, map, and protect tiles, prior to any construction activity. The drainage system shall be protected and repaired or replaced, as necessary, during the term of the special use to avoid any issues with the Illinois Drainage Law and any unforeseen flooding or impact to drainage that could negatively impact this project or any adjacent landowners.
6. The drainage way located in Phase II shall be left unobstructed.
7. The applicant shall provide training to Boone County Fire District 3 pertaining to the hazards in conducting fire control and extinguishment of the proposed solar system.
8. Inspection risers shall be installed between PINs: 03-14-300-001 and 03-14-300-002 and Illinois Route 173

**Section 2.** That the premises shall be used in accordance with and subject to the applicable provisions of the Zoning Ordinance of the Village of Poplar Grove and shall not be used except as may otherwise be expressly authorized by this Special Use.

**Section 3.** That acceptance of any of the benefits of this Special Use shall be deemed acceptance of all the terms and conditions set forth herein.

**Section 4.** This ordinance shall be in full force and effect from and after its passage, approval, and publication in pamphlet form as provided by law.

**Section 5.** Except as expressly modified or amended in this Ordinance, all other terms, conditions, and provisions of the Village Code of Ordinances not so modified or amended, shall remain in full force and effect; provided, however, that any provision of the Village Code of Ordinances shall be deemed modified as necessary to give practical effect to the provisions of this Ordinance. To the extent that the terms and provisions of this Ordinance conflict the Village Code of Ordinances, the terms and provisions of this Ordinance shall control.

**PASSED** by the Village Board of the Village of Poplar Grove this ____ day of _____, 2020.

**APPROVED** by the President of the Village of Poplar Grove this ____ day of _____, 2020.

_____
Owen Costanza, Village President

**ATTEST:**

_____
Karri Anderberg, Village Clerk

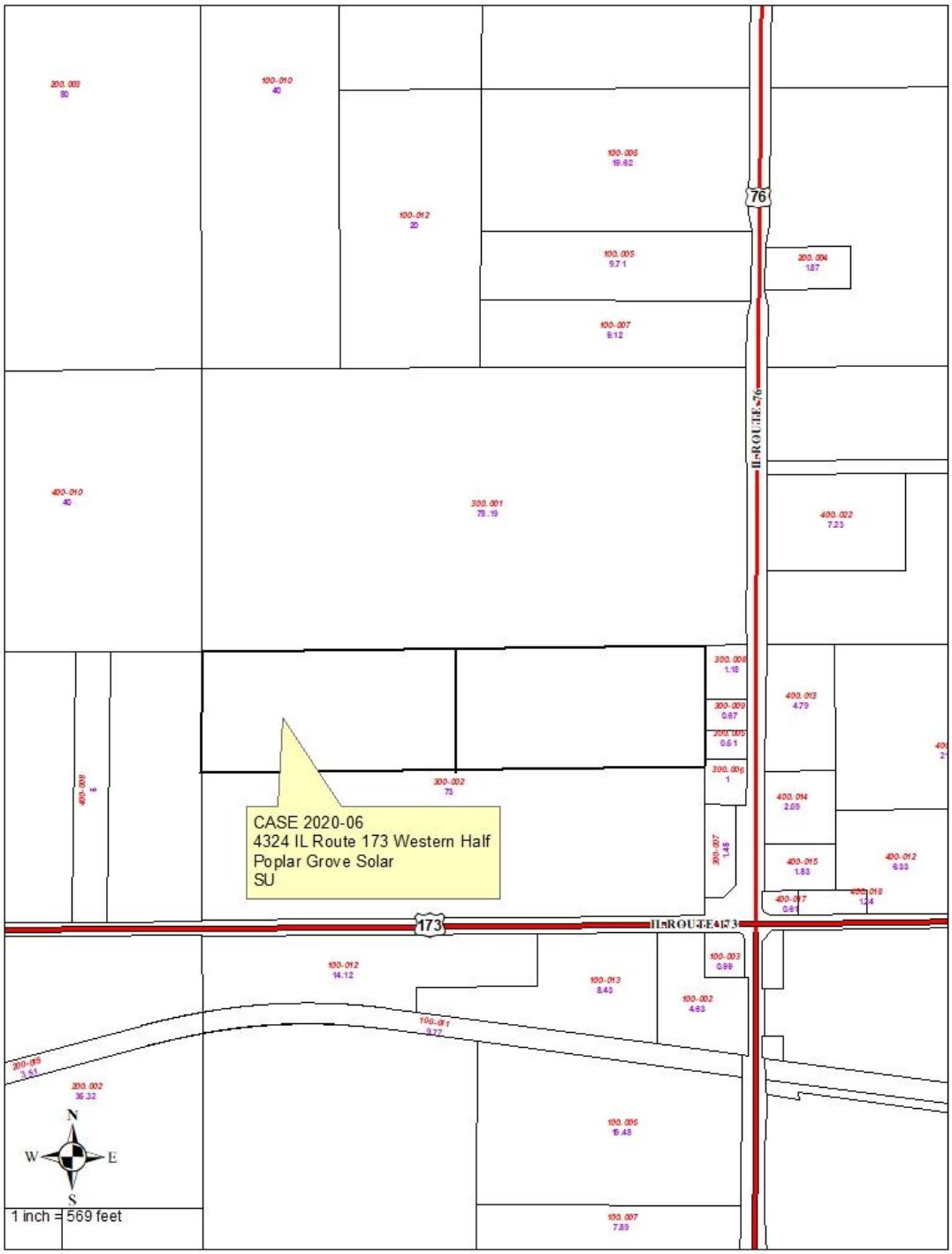
Ayes:____ Nays: ____ Absent ____

Village Board Members Voting Aye:____

Village Board Members Voting Nay:____

Date Published: _____ Sponsor:_____

# Attachment A



# Attachment B

Trajectory Energy Partners

**EXECUTIVE SUMMARY**

**Poplar Grove Solar – Phase 2**

Poplar Grove Solar, LLC - Phase 2 (the "Applicant") proposes to develop a community solar project approximately 2 MW AC in size, on approximately 17 acres of land located north of Illinois Route 173 and west of Fairgrounds Road in the Village of Poplar Grove, Boone County, Illinois. The Poplar Grove Solar, LLC community solar project (the "Solar Project") will be located within a portion of the parcel with PIN 03-14-300-002 (the "Project Parcel") owned by DYN 173, LLC (the "Landowner"). The Applicant is submitting this Petition for Special Use pursuant to and in compliance with the requirements set forth under Sections 8-5-4 and 8-5-7 of the Village of Poplar Grove Zoning Ordinance (the "Zoning Ordinance"), as amended by the Applicant's approved Text Amendment Submitted July 24th, 2017.

The proposed Solar Project will serve the electricity needs of 300 to 400 homes. Once installed and commissioned, the Solar Project will be continuously monitored, and engineers and maintenance technicians will visit the Solar Project a few times a year for routine maintenance and any required repairs. Post-construction, the Solar Project will generate minimal traffic, with visits to the site occurring solely in connection with routine and required maintenance.

**About Trajectory Energy Partners, LLC**

Poplar Grove Solar, LLC is a wholly owned indirect subsidiary of Trajectory Energy Partners, LLC. Trajectory Energy Partners, LLC brings together communities, organizations, and land owners to develop clean energy projects that are integrated into the local landscape and community.

**The Future Energy Jobs Act and Community Solar Projects**

Under Illinois Public Act 99-0906, commonly known as the Future Energy Jobs Act ("FEJA"), the Illinois Power Agency is currently promulgating a set of regulations and incentives to allow the creation of such community solar projects. The Solar Project is intended to be a community solar project under FEJA, which would allow residential and commercial customers to subscribe to the Solar Project. The Solar Project will support FEJA's goals of increasing the adoption and availability of renewable energy to Illinois residents and businesses.

**Economic and Environmental Benefits**

The Solar Project will provide economic and environmental benefits to the community. Poplar Grove residents and businesses will have an opportunity to subscribe to the Solar Project. These subscribers will support clean energy in their community while benefiting from savings on their electricity bills. In addition, the Solar Project will create new tax revenues for the community and generate economic activity through local construction, materials, and services.

Trajectory Energy Partners

## I. APPLICANT INFORMATION

The Applicant is a limited liability company, a wholly owned indirect subsidiary of Trajectory Energy Partners, LLC. Jonathan Carson is an Authorized Representative of the Applicant.

Applicant:

Poplar Grove Solar, LLC
c/o Trajectory Energy Partners, LLC
Attn: Jon Carson
P.O. Box 310
Highland Park, IL 60035
(312) 882-3713
legal@trajectoryenergy.com

Landowner:

DYN 173, LLC
c/o First Midwest Group
Attn: Marvin L. Keys
6801 Spring Creek Road
Rockford, IL, 61114
(815)-229-3000

## II. PROJECT DESCRIPTION

### a. General Description

The Solar Project will be located on approximately 17 acres in the Village of Poplar Grove, Section 14, Township 45 North, Range 3, Boone County, Illinois, Property Index Number: 03-14-300-002. See Exhibit A: Project Location.

Legal Description

PIN 03-14-300-002:

THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 14; ALSO ALL THAT PART OF THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 23, LYING NORTH OF THE RIGHT OF WAY OF THE CHICAGO NORTHWESTERN RAILWAY COMPANY, EXCEPTING FROM THE ABOVE ONE ACRE IN SAID NORTHWEST QUARTER OF SECTION 23, DEEDED TO WAYNE WHEELER, AS APPEARS OF RECORD IN BOOK 94 OF DEEDS, PAGE 533, BOONE COUNTY RECORDS, AND EXCEPTING 4.84 ACRES IN THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 14, DEED TO FLOYD NEWHOUSE, AS APPEARS OF RECORD IN BOOK 103 OF DEEDS, ON PAGE 444 ALSO EXCEPTING "TRACT A" CONTAINING .971 ACRES AND "TRACT B" CONTAINING 4.856 ACRES IN SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 14 DEED TO FLOYD NEWHOUSE AND WIFE, AS APPEARS OF RECORD IN BOOK 111 OF DEEDS PAGE 359 BOONE COUNTY RECORDS AND ALSO EXCEPTING THAT PART OF THE NORTHWEST QUARTER OF SAID SECTION 23 DEED TO JOHN BULLARD AND

Trajectory Energy Partners

WIFE, AS APPEARS OF RECORD IN BOOK 106 OF DEEDS, ON PAGE 504 BOONE COUNTY RECORDS ALL OF THE ABOVE SITUATED IN TOWNSHIP 45 NORTH, RANGE 3 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN BOONE COUNTY, STATE OF ILLINOIS AND MORE PARTICULARLY DESCRIBED AS FOLLOWS TO WIT:

PART OF THE SOUTHWEST QUARTER (1/4) OF SECTION FOURTEEN (14), TOWNSHIP FORTY-FIVE (45) NORTH, RANGE THREE (3) EAST OF THE THIRD (3RD) PRINCIPAL MERIDIAN, BOUNDED AND DESCRIBED AS FOLLOWS, TO WIT: BEGINNING AT THE SOUTHWEST CORNER OF THE SOUTHWEST QUARTER OF SAID SECTION; THENCE NORTH 00°36'51" EAST, ALONG THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 1326.34 FEET TO
THE NORTH LINE OF THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SAID SECTION; THENCE SOUTH 89°49'33" EAST, ALONG THE NORTH LINE OF THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SAID SECTION, 2400.02 FEET TO THE WEST LINE OF TRACT "A" OF PREMISES CONVEYED ALLAN B. WARES TO FLOYD NEWHOUSE AND SHIRLEY NEWHOUSE BY QUIT CLAIM DEED DATED DECEMBER 26, 1952 AND RECORDED IN BOOK 111 OF DEEDS ON PAGE 359 IN THE RECORDER'S OFFICE OF BOONE COUNTY, ILLINOIS; THENCE SOUTH 00°38'50" WEST, ALONG THE WEST LINE OF TRACT "A" OF SAID PREMISES SO CONVEYED TO NEWHOUSE AS AFORESAID AND THE SOUTHERLY EXTENSION THEREOF, 1324.88 FEET TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION; THENCE NORTH 89°51'38" WEST, ALONG THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION, 2399.26 FEET TO THE POINT OF BEGINNING. SUBJECT TO THE RIGHTS OF THE PUBLIC AND STATE OF ILLINOIS IN AND TO THOSE PORTIONS THEREOF TAKEN, USE OR DEDICATED FOR PUBLIC ROAD PURPOSES. SITUATED IN THE COUNTY OF BOONE AND STATE OF ILLINOIS

The project is located on the portion of the Project Parcel that is currently zoned as Light Industrial District. Pursuant to the Applicant's requested text amendment under Sections 8-5-4 the Zoning Ordinance, solar farms are permitted as a special use in the Light Industrial District. See Exhibit C: Zoning Diagram.

### b. Site Plan and Phases

A Site Plan detailing the placement of the solar arrays and proposed access is included in this application. The proposed Solar Project is indicated on the Site Plan as Phase 2. The Applicant is concurrently submitting a Special Use Application for Phase 1. Each Phase contains a single 2MW AC community solar farm. Pursuant to the regulations and policies implementing FEJA, a single parcel may contain up to two 2MW AC community solar farms. The incentives required to construct each community solar farm are intended to be allocated by lottery, and thus each Phase may be awarded such incentives separately, and if both receive incentives, at different times. Thus, the Applicant may construct Phase 2 prior to Phase 1, or may only construct one of the two Phases if incentives are not available for both Phases. See Exhibit B: Site Plan.

### c. Equipment Detail

The Solar Project will consist of equipment to generate electricity from solar energy, including rows of photovoltaic cell panels on a single-axis tracking system, racking, inverters, and perimeter fencing. Support poles will be driven into the ground. Transformers and other electrical equipment will be located on one to two small concrete pads measuring approximately 6' x 10' for each Phase. Panels will be installed in a north-south configuration on a rotating mounting system that will track the sun throughout the day. The panels will be

designed with an anti-reflective coating to minimize glare from the Solar Project and prevent impacts to avian wildlife including birds and bats. The Solar Project is intended to operate for a period of at least 25 years and will be constructed with solar panels and other electrical equipment with long-term warranties and very low expected rates of replacement.

The components of the Solar Project will comply with the current edition of the National Electric Code and be UL listed or meet a comparable safety standard. The Solar Project's electrical collection lines will be underground and then brought together for connection to the transmission network rather than directly to a substation. For each Phase, three on-site poles will convey powerlines to utility-owned poles and on to a proposed interconnection point within the Solar Project's footprint. See Exhibit B: Site Plan.

### d. Fencing, Access, Drainage and Landscaping

Each Phase of the Solar Project will be enclosed by a 7' chain-link fence, as required by the National Electrical Code. The Solar Project will be accessed from IL 173 along a dedicated access road and through a gated entrance with a maximum width of 24'.

Vegetation under and around the Solar Project will be maintained by periodic mowing, inspections, and weed management as appropriate. The Solar Project will add cover vegetation to the site that traditionally been utilized for row crop. In doing so, drainage and runoff is expected to improve through the improved absorption of rain and melting snow and ice. No impervious surfaces will be added to Parcel, with the exception of one to two small concrete pads measuring roughly 6' x 10' for each Phase. The Solar Project will adhere to the Illinois Environmental Protection Agency (IEPA) Construction Stormwater Permit Requirements.

In addition, the Solar Project will work with the Village and the Landowner to specify low-growing grasses or pollinator-friendly plantings to be planted as a buffer around the Solar Project. The pollinator-friendly species are intended to facilitate local pollinator habitat, improve water infiltration, prevent compaction, and control erosion while increasing microbial activity and production of organic matter.

### e. Total Height of Solar Arrays and Other Structures

The total overall height of the facility will not exceed 12'.

### f. Requested Duration

The Applicant will not be able to move forward with constructing either Phase of the Solar Project until it has received approval for Renewable Energy Credits. Both phases are currently on a waitlist for such Renewable Energy Credits (REC) and the Illinois Power Agency is expected to release additional information on additional REC awards in the future.

Trajectory Energy Partners

### g. Proposed Setback Dimensions

See Exhibit B: Site Plan

TABLE 1: SETBACK TABLE

| | Village Requirement | Proposed Setbacks |
|---|---|---|
| Light Industrial: Front | 30' | > 650' |
| Light Industrial: Western Side | 20' | > 700' |
| Light Industrial: Eastern Side | 20' | 100' with buffer plantings proposed. |
| Light Industrial: Rear | 30' | 30' |

See Exhibit B: Site Plan.

### h. Environmental Impact

The Illinois Department of Natural Resources' Ecological Compliance Assessment Tool (EcoCAT) consultation has been terminated with respect to the Solar Project site. See Exhibit D: EcoCAT Consultation.

The Solar Project will comply with all local, state, and federal environmental regulations. A Natural Resource Inventory (NRI) has been requested from the Boone County Soil and Water Conservation District.

The Solar Project shall be constructed, operated and maintained in compliance with federal, state, and local laws, including with respect to the removal and disposal of solid waste generated thereby. The Solar Project will also be maintained in a clean and neat manner, and any such solid waste will be removed as appropriate, with all costs borne by the Applicant.

### i. Ingress and Egress During Construction and Thereafter

One improved, gravel access road will provide ingress and egress from the Solar Project site to IL 173 both during construction and thereafter. The applicant will use a watering truck as necessary to control dust during construction. See Exhibit B: Site Plan.

### j. Construction and Maintenance; Traffic

The active construction period for each Phase of the Solar Project is expected to begin at the earliest in Spring 2021 and the construction of each Phase will last approximately 3 to 6 months. Construction will require trucks no larger than a typical 18-wheeler to deliver materials to the site, and onsite equipment will be used to drive pilings into the ground and install the panels, supports, and tracking equipment. Construction workers and personnel will

arrive in pick-up trucks. Typically, solar installations do not require the use of cranes. Construction hours will follow a typical daily construction schedule.

The operations and maintenance of the Solar Project will generate minimal traffic. Because the Solar Project will be continuously monitored electronically off-site, engineers and maintenance technicians will visit the Solar Project a few times a year for routine maintenance and any repairs. Landscaping will be managed regularly during the growing season as described below.

### k. Public Road Routes

The public road route will utilize IL 173, which is paved and designed for construction traffic.

### l. Warning Signage

The Applicant will place signs warning of high voltage at the entrance to the solar facility as well as on the base of all pad mounted transformers. In addition, the Solar Project will prominently display a sign providing emergency contact information including the name of the solar facility, address, and the emergency contact telephone numbers for the Solar Project and the Operations and Maintenance contractor.

### m. Conformance to Industry and Code Standards/Engineer Certification

The Solar Project will comply with all applicable local and county codes for the electrical, mechanical, and structural components of the facility.

### n. Lighting

The Solar Project does not require lighting. No lighting will be installed.

### o. Decommissioning

Upon the cessation of operations of the Solar Project, the Applicant will remove the installed Solar Project equipment and restore the site pursuant to its obligations to the Landowner, and will comply with the requirements of any governmental agency respecting the decommissioning and reclamation obligations for the Parcel. In connection with such decommissioning, the Applicant will remove the above-ground structures as well as the installed underground electrical equipment.

### p. Property Value Impacts

Property valuation experts from CohnReznick have studied the value of properties that adjoin solar farms in Illinois and Indiana and concluded that the solar farms do not adversely affect the property values in either the short or long term.

The study included solar farms in Lasalle and Winnebago Counties in Illinois; as well as Elkhart, Lake, Madison, Marion and Porter Counties in Indiana. Experts analyzed property sale prices and marketability of single family homes and agricultural land that adjoins solar farms and compared this data to comparable properties in the same county. The study also included interviews with county assessors and local real estate professionals, all of whom concluded that

solar farms in their area had not impacted property values. Similar research has been conducted in other states across the U.S. and none of these studies have found that solar farms adversely affect nearby property values. Please see Exhibit E: Impacts Study.

### q. Owners of Record

The following landowners are adjacent to the Project Parcel:

| PIN# | Name/Trust No. | Street | City | Zip |
|---|---|---|---|---|
| 03-15-400-011 | LINDBERG, DONALD A TR | 3952 IL ROUTE 173 | Caledonia | 61011 |
| 03-15-400-010 | LINDBERG, DONALD A TR | 3952 IL ROUTE 173 | Caledonia | 61011 |
| 03-14-300-001 | LINDBERG, DONALD A TR | 3952 IL ROUTE 173 | Caledonia | 61011 |
| 03-14-300-008 | MCINTYRE, MICHAEL S & JANE A (HAAS) | 15302 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-009 | RABE, DALE A & CANDY E | 15270 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-005 | RABE, BENJAMIN | 15246 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-006 | GUTHRIE, GLENN S & COLLEEN | 15214 IL ROUTE 76 | Poplar Grove | 61065 |
| 03-14-300-007 | DELIJAHN INCORPORATED | PO BOX 305 | Caledonia | 61011 |
| 03-23-100-003 | NEBIU, ERGEN & NADRIT & MURAT | 4481 IL ROUTE 173 | Caledonia | 61011 |
| 03-23-100-002 | GRACEFFA, PETER J | 4557 IL ROUTE 173 | Caledonia | 61011 |
| 03-23-100-013 | POPLAR GROVE STORAGE LLC | 6801 SPRING CREEK RD | Rockford | 61114 |
| 03-23-100-012 | DYN 173 LLC | 6801 SPRING CREEK RD | Rockford | 61114 |
| 03-22-200-002 | BOONE/POPLAR GROVE LLC | 6277 E RIVERSIDE BLVD | Rockford | 61114 |

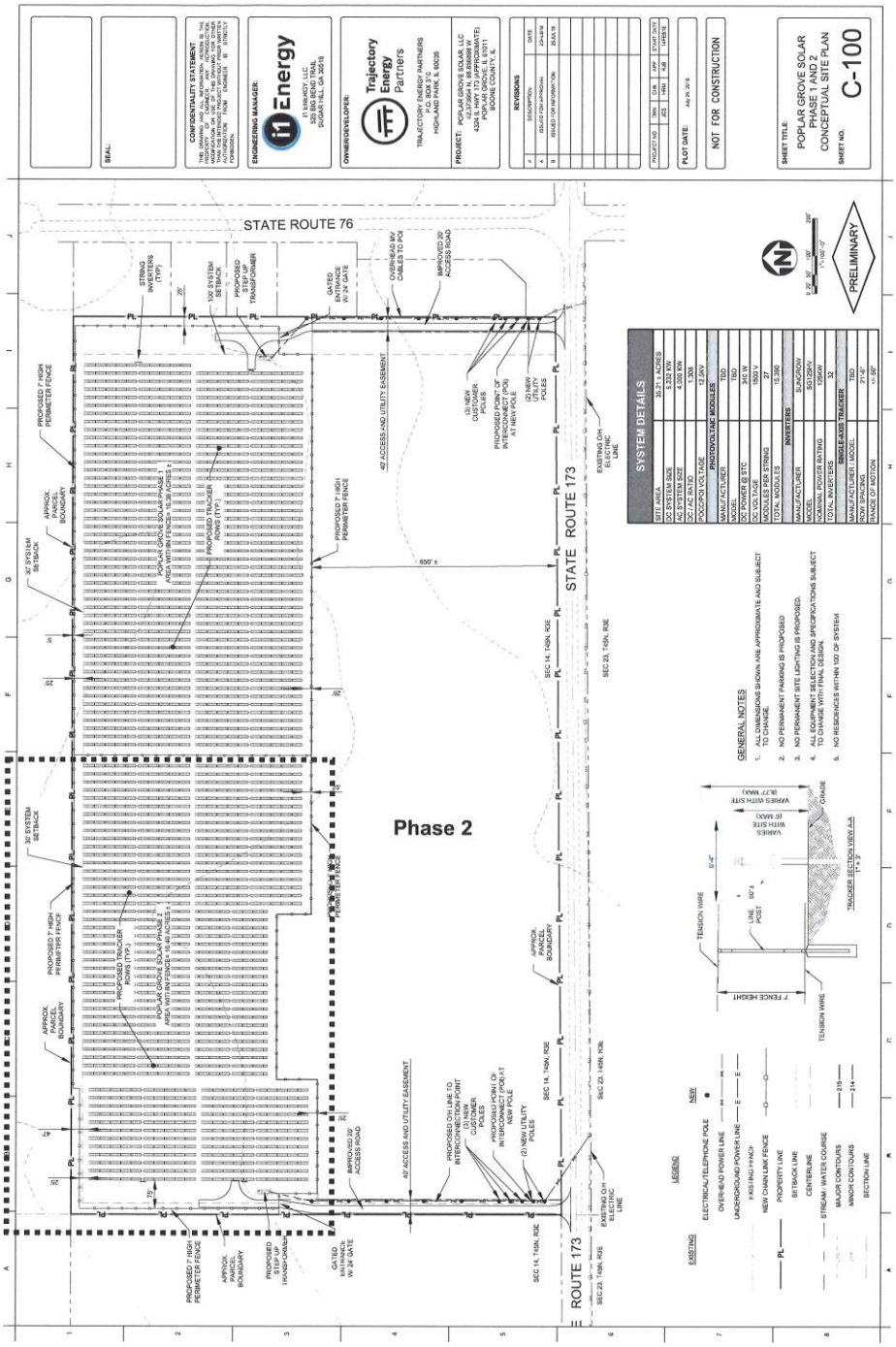
### r. Special Use for Corporations, Partnerships, and Joint Venture

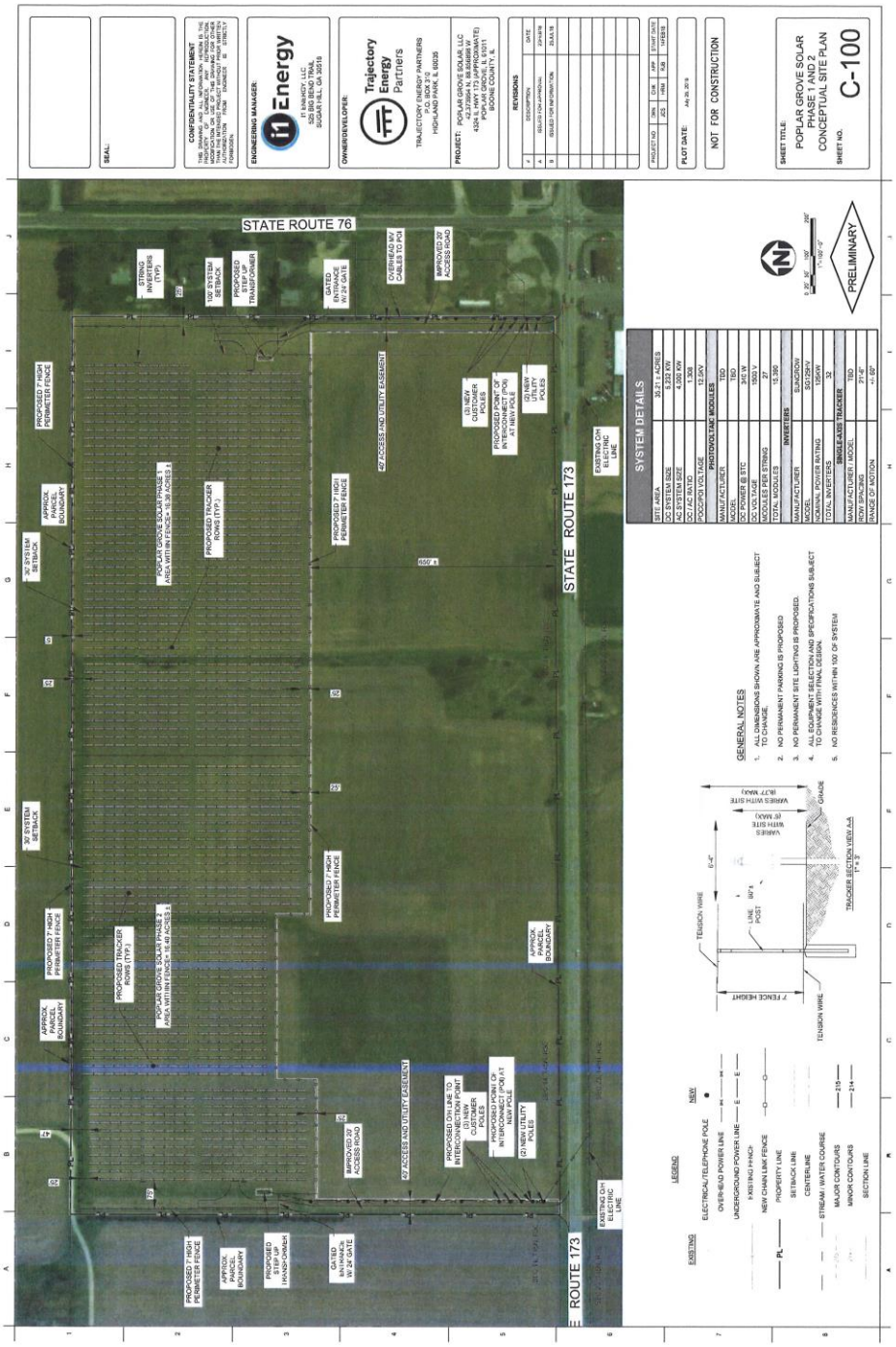
a. The Applicant is not a corporation, partnership or joint venture.
b. The Applicant is not doing business under an assumed name.
c. The Applicant is acting on its behalf.
d. Poplar Grove Solar, LLC is a wholly owned indirect subsidiary of Trajectory Energy Partners, LLC, P.O. Box 310, Highland Park, IL 60035.

### s. Special Use Fees

The Applicant has enclosed the filing fee with this application.

**Exhibit B**: Site Plan




STATE ROUTE 76
STATE ROUTE 173
ROUTE 173
PROPOSED 7' HIGH PERIMETER FENCE
APPROX. ARRAY BOUNDARY
PROPOSED TRACKER ROWS (TYP.)
POPLAR GROVE SOLAR PHASE 1 AREA WITHIN FENCE= 16.39 ACRES ±
POPLAR GROVE SOLAR PHASE 2 AREA WITHIN FENCE= 15.81 ACRES ±
42' ACCESS AND UTILITY EASEMENT
IMPROVED 20' ACCESS ROAD
PROPOSED STEP UP TRANSFORMER
GATED KNOX BOX ACCESS
PROPOSED POINT OF INTERCONNECT (POI) (3) NEW CUTOFF POLES
(2) NEW UTILITY POLES
PROPOSED OH LINE TO INTERCONNECTION POINT
EXISTING OH ELECTRIC LINE
STRING INVERTERS (TYP.)
100' SYSTEM SETBACK
GATED ENTRANCE W/ 24' GATE
OVERHEAD MV CABLES TO POI
APPROVED 20' ACCESS ROAD
30' SYSTEM SETBACK
50' SYSTEM SETBACK
650' ±
(2) NOT UTILITY POLES
EXISTING OH ELECTRIC LINE
LEGEND
EXISTING
NEW
ELECTRICAL/TELEPHONE POLE
OVERHEAD POWER LINE
UNDERGROUND POWER LINE
EXISTING FENCE
NEW CHAIN LINK FENCE
PROPERTY LINE
SETBACK LINE
CENTERLINE
STREAM / WATER COURSE
MAJOR CONTOURS
MINOR CONTOURS
SECTION LINE
GENERAL NOTES
1. ALL DIMENSIONS SHOWN ARE APPROXIMATE AND SUBJECT TO CHANGE.
2. NO PERMANENT PARKING IS PROPOSED
3. NO PERMANENT SITE LIGHTING IS PROPOSED.
4. ALL EQUIPMENT SELECTION AND SPECIFICATIONS SUBJECT TO CHANGE WITH FINAL DESIGN.
5. NO RESIDENCES WITHIN 100' OF SYSTEM
TRACKER SECTION VIEW A-A
SYSTEM DETAILS
SITE AREA 32.2 ± ACRES
DC SYSTEM SIZE 8,232 KW
DC STC RATING 8,436 KW
DC / AC RATIO 1.302
POC/GPOI VOLTAGE 12.5KV
PHOTOVOLTAIC MODULES TBD
MANUFACTURER
DC POWER @ STC 345 W
DC VOLTAGE 1500 V
MODULES PER STRING 27
TOTAL MODULES 15,360
INVERTERS SUNGROW
MANUFACTURER
MODEL SG125HV
NOMINAL POWER RATING 125kW
TOTAL INVERTER QTY 32
SINGLE AXIS TRACKER TBD
MANUFACTURER / MODEL 21'-0"
ROW SPACING ~0.05°
RANGE OF MOTION
PRELIMINARY
CONFIDENTIALITY STATEMENT
ENGINEERING MANAGER:
Energy
SUGAR HILL, GA 30518
OWNER/DEVELOPER:
Trajectory Energy Partners
TRAJECTORY ENERGY PARTNERS
HIGHLAND PARK, IL 60035
PROJECT: POPLAR GROVE SOLAR, LLC
POPLAR GROVE, IL 61071
BOONE COUNTY, IL
REVISIONS
DESCRIPTION
DATE
SEAL:
NOT FOR CONSTRUCTION
SHEET TITLE:
POPLAR GROVE SOLAR PHASE 1 AND 2 CONCEPTUAL SITE PLAN
SHEET NO.
C-100

# MEMO

**DATE:** September 24, 2020

**TO:** Poplar Grove Village Board

**FROM:** Village of Poplar Grove Planning and Zoning Commission

**SUBJECT:** Recommendation— Case 2020-06: Poplar Grove Solar, LLC, 4324 IL Route 173 (West Half)

**REQUEST AND LOCATION:**
The applicant, Poplar Grove Solar, PO Box 310, Highland Park, IL 60035, on behalf of the property owner, DYN 173, LLC (First Midwest Group), 6801 Spring Creek Road, Rockford, IL 61114, is requesting a special use to install non-building mounted solar collectors (total of 18 acres, western phase) for export of energy for use by an electrical utility at 4324 Illinois Route 173 within LI, Light Industrial District (Poplar Grove Zoning Ordinance Sections 8-6-11-B-2 and 8-5-7 Special Use. Part of PIN: 03-14-300-002. The property is rectangular in shape and is currently being farmed. The solar farm will be on the northwestern part of the property, away from Illinois Route 173. There is a cluster of single family residential to the east and a farmstead to the northwest. Please note that this is the same special use that was requested in 2018 but was never constructed.

**RECOMMENDATION:**
The Planning and Zoning Commission **approved** case number 2020-06 subject to the following *amended* conditions:

1. Substantial compliance with the narrative and site plan submitted, unless otherwise noted.
2. All vegetation shall be approved by the Boone County Conservation District. Pollinator friendly vegetation shall be used.
3. A decommissioning and reclamation plan shall be submitted to and approved by the Village of Poplar Grove prior to the commencement of the development.
4. A surety, covering the complete execution of the decommissioning and reclamation plan for when the project ends shall be posted prior to the commencement of the development.
5. *A subsurface agricultural investigation and survey shall be performed to accurately locate, map, and protect tiles, prior to any construction activity. The drainage system shall be protected and repaired or replaced, as necessary, during the term of the special use to avoid any issues with the Illinois Drainage Law and any unforeseen flooding or impact to drainage that could negatively impact this project or any adjacent landowners.*
6. The drainage way located in Phase II shall be left unobstructed.
7. The applicant shall provide training to Boone County Fire District 3 pertaining to the hazards in conducting fire control and extinguishment of the proposed solar system.
8. Inspection risers shall be installed between PINs: 03-14-300-001 and 03-14-300-002 and Illinois Route 173

**The motion to amend condition 5 and approve case 2020-06 for a solar farm at 4324 IL Route 173 (west half) carried with a 4-0 roll call vote.**

_____
Jessica Roberts, Chairman
Poplar Grove Planning and Zoning Commission

## Families First Coronavirus Response Act Policy

It is the policy of the Village of Poplar Grove to comply with the requirements of the Federal Families First Coronavirus Response Act (FFCRA). The FFCRA provides employees with Emergency Paid Sick Leave (PSLA) and Emergency Paid Family and Medical Leave (EFMLA) for those affected by the COVID-19 pandemic, from April 1, 2020, through December 31, 2020.

### *Definitions*

As used in this policy, the following definitions shall apply:

a) Child is defined as a biological, adopted or foster child, a stepchild, a legal ward, or a child of a person standing in loco parentis, who is:
   a. Under the age of 18 (and if your child is over the age of 14, and your normal shift is during daylight hours, you must certify that special circumstances exist requiring you to provide care for such child), or
   b. 18 or older and incapable of self-care because of a mental or physical disability.

b) Individual is defined as an immediate family member, roommate, or similar person with whom the employee has a relationship that creates an expectation that the employee would care for the person if he or she self-quarantined or was quarantined.

c) Childcare provider is defined as a provider who receives compensation for providing childcare services on a regular basis, including:
   a. A center-based childcare provider.
   b. A group home childcare provider.
   c. A family childcare provider (one individual who provides childcare services for fewer than 24 hours per day, as the sole caregiver, and in a private residence).
   d. Other licensed provider of childcare services for compensation.
   e. A childcare provider that is 18 years of age or older who provides child care services to children who are either the grandchild, great grandchild, sibling (if such provider lives in a separate residence), niece or nephew of such provider, at the direction of the parent.

d) School closure is defined as the physical location (building) where your child receives instruction, which is not open to your child. This is true even if some or all instruction is being provided online and your child is participating in said online instruction. Further in the case of a part-time in-person instruction model, on days in which a school is closed to your child for purposes of in-person instruction, the school shall be considered closed. The following shall be true for purposes of EFMLA leave eligibility:
   a. If a school is partially open for in-person instruction and an employee's child attends in-person instruction when available, the employee would not be eligible for EFMLA leave on in-person instruction days.
   b. Given the option to attend in-person instruction or entirely virtual instruction, an employee selects virtual instruction rather than a hybrid or in-person instruction model, the employee may be ineligible to take EFMLA leave.

**Emergency Paid Sick Leave (PSLA)**

***Eligibility***

All current full-time and part-time employees, regardless of the amount of time the employee has worked for the Village of Poplar Grove, who are unable to work (or telework) due to one of the following reasons for leave:

1. An employee is subject to a federal, state, or local quarantine or isolation order related to COVID–19.
2. An employee has been advised by a health care provider to self-quarantine due to concerns related to COVID–19 including: a) the belief that the individual has COVID-19; b) The individual may have COVID-19 due to know exposure or symptoms; or the individual is particularly vulnerable to COVID-19. (A health care provider is defined as a medical doctor or nurse practitioner or other health care provider authorized to issue a certification under FMLA).
3. An employee is experiencing symptoms of COVID–19 and seeking a medical diagnosis.
4. An employee is caring for an individual who is subject to an order as described in subparagraph (1) or has been advised as described in paragraph (2).
5. An employee is caring for their child/children if the school or place of care of the child/children has been closed, or the childcare provider of such child/children is unavailable for reasons related to COVID-19.
6. An employee is experiencing any other substantially similar condition specified by the Secretary of Health and Human Services in consultation with the Secretaries of Labor and Treasury.

***Amount of Paid Sick Leave***

All eligible full-time employees will have up to Eighty (80) hours or Ten (10) days of PSLA leave available to use for the qualifying reasons above. Eligible part-time employees are entitled to the number of hours worked, on average, over a two-week period.

For employees with varying hours, one of two methods for computing the number of hours paid will be used:

a) If the employee has worked Six (6) months or more, the average number of hours that the employee was scheduled per day over the Six (6) month period ending on the date in which the employee takes leave, including hours for which the employee took leave of any type.
b) If the employee has worked less than Six (6) months, the expected number of hours to be scheduled per day at the time of hire.

***Increments and Intermittent Use of Leave***

For those employees who are teleworking, the Village of Poplar Grove has authorized employees to take PSLA leave intermittently and, in any increment to which the employee and their Department Head or Supervisor have agreed to that is not inconsistent with the provisions

contained in the Employee Handbook, applicable Village of Poplar Grove policies, or applicable Collective Bargaining Agreement.

For those employees who are not teleworking and are currently working onsite, the Village of Poplar Grove has authorized employees to take PSLA leave intermittently ONLY for reason number Five (5) as listed above, that is an employee is caring for their child/children if their child/children's school or place of care has been closed, or the childcare provider of such child/children is unavailable due to COVID–19-related reasons.

According to FFCRA regulations, an employee taking leave for reasons 1-4 or 6 above could potentially expose an employee or others in the workplace to COVID-19. As such, employees taking leave for reasons 1-4 or 6 above must either use the full amount of PSLA leave or use it in full-day increments until the reason for leave is over and it is safe for the employee to return to work.

***Rate of Pay***

PSLA leave will be paid at the employee's regular rate of pay, or minimum wage, whichever is greater, for leave taken for reasons 1-3 above. Pay for leave taken for reasons 1-3 will not exceed $511 per day and $5,110 in total.

Employees taking leave for reasons 4-6 will be compensated at two-thirds their regular rate of pay, or two-thirds of the applicable federal or state minimum wage, whichever is greater. Pay for leave taken for reasons 4-6 will not exceed $200 per day and $2,000 in total.

Employees taking leave for reasons 4-6 may also supplement the two-thirds pay with accrued, applicable paid leaves not to exceed 100% of regular pay. The determination of which accrued paid leaves are applicable will be consistent with the Village of Poplar Grove Employee Handbook and/or the applicable Collective Bargaining Agreement. For example, an employee may choose to use one-third of an hour of accrued, applicable paid leave for each hour of PSLA leave taken to reach 100% of normal pay per hour.

***Interaction with Other Paid Leave***

The employee may use PSLA leave under this policy before using any other accrued paid time off for the qualifying reasons stated above.

Employees on EFMLA leave under this policy may use PSLA leave concurrently with that leave. PSLA leave may also be used when an employee is on leave under traditional FMLA for his or her own COVID-19-related serious health condition or to care for a qualified family member with such a condition.

***Procedure for Requesting Emergency Paid Sick Leave***

Employees must notify their Department Head or Supervisor of the need and specific reason for leave under this policy either prior to leave within one day of leave commencing. A FFCRA leave

request form will be provided to all employees via email or in person. Verbal notification will be accepted until practicable to complete and return the designated FFCRA leave form.

The Village of Poplar Grove has the right to request reasonable documentation to substantiate an employee's need to take the leave including: a) employee's name; b) date(s) for which leave is requested; c) the qualifying reason for the leave; and d) an oral or written statement that an employee is unable to work because of the qualified reason for leave.

Additionally, an employee must provide the following information for the below reasons:

1. For reason 1 an employee must provide:
    a. A copy of the federal, state or local quarantine or isolation order related to COVID-19 applicable to the employee or the name of the government entity that issued the order.
2. For reason 2 an employee must provide:
    a. Written documentation by a health care provider advising the employee to self-quarantine due to concerns related to COVID-19 or the name of the provider who advised the employee.
3. For reason 3 an employee must provide either:
    a. A copy of the federal, state or local quarantine or isolation order related to COVID-19 applicable to the employee or the name of the government entity that issued the order; or
    b. Written documentation by a health care provider advising the employee to self-quarantine due to concerns related to COVID-19 or the name of the provider who advised the employee.
4. For reason 4 an employee must provide:
    a. The name and relation of the individual the employee is taking leave to care for who is subject to a quarantine or isolation order or is advised to self-quarantine.
5. For reason 5 an employee must provide:
    a. The name(s) of the child/children being cared for;
        i. A certification that your child/children are under the age of 18 (and if your child/children are over the age of 14, and your normal shift is during daylight hours, you must certify that special circumstances exist requiring you to provide care for such child/children), or
        ii. A certification that your child/children are 18 years of age or older and incapable of self-care because of a mental or physical disability.
    b. The name of the school, place of care, or childcare provider that has closed or become unavailable; and
    c. A statement representing that no other suitable person will be caring for the child during the period for which an employee takes PLSA leave.
6. For reason 6 an employee must provide:
    a. Documentation which substantiates that an employee is experiencing a substantially similar condition to COVID-19 as specified by the Secretary of Health and Human Services in consultation with the Secretaries of Labor and Treasury.
7. Further, an employer may also request that an employee provide such additional material as needed for the employer to support a request for tax credits.

Once PSLA leave has commenced, the employee and his or her Department Head or Supervisor must determine reasonable procedures for the employee to report periodically on the employee's status and intent to continue to receive paid sick time or the intent to return to work.

Failure to provide the required documentation listed above will result in a delay in the approval or a denial of PSLA leave. **In cases of a non-emergent leave, the Village of Poplar Grove will request at least one (1) week notice prior to the leave being taken.**

***Carryover***

PSLA leave under this policy will not be provided beyond December 31, 2020, unless further extended by future legislation. Any unused paid sick leave will not carry over to the next year or be paid out to employees.

***Job Protections***

No employee who appropriately utilizes emergency paid sick leave under this policy will be discharged, disciplined or discriminated against for use of this leave.

The employer must maintain the employees' same level of health insurance while an employee is on PSLA leave.

**Emergency Family Medical Leave Act**

***Employee Eligibility***

All current employees who have been employed with the Village of Poplar Grove for at least thirty (30) calendar days are eligible for leave under this policy.

Employees laid off or otherwise terminated on or after March 1, 2020, who are rehired on or before December 31, 2020, are eligible for leave upon reinstatement if they had previously been employed with Village of Poplar Grove for Thirty (30) or more of the Sixty (60) calendar days prior to their layoff or termination.

***Reason for Leave***

An employee is only eligible for EFMLA leave if they *cannot work or telework* because their child's school or place of child care has been closed, or the child care provider of such child is unavailable as declared by a federal, state or local authority due to a public health emergency with respect to COVID-19.

***Duration of Leave***

An eligible employee is allowed a total of Twelve (12) weeks of leave under FMLA and EFMLA combined (not Twelve (12) weeks under both FMLA and EFMLA). The criteria used to determine if an employee is eligible for FMLA leave, that is, has worked for Twelve (12) months and at least 1,250

hours in the previous year (as defined by employers policy) do not apply if the employee is requesting EFMLA leave.

***Increments & Intermittent Use of Leave***

The Village of Poplar Grove has authorized employees to take EFMLA leave intermittently and, in any increment to which the employee and their Department Head or Supervisor have agreed to that is not inconsistent with the provisions contained in the Employee Handbook, applicable Village of Poplar Grove policies, or applicable Collective Bargaining Agreement.

***Pay During Leave***

Leave will be unpaid for the first Ten (10) days of leave; however, employees may use accrued paid vacation, compensatory, or personal leave during this time. Employers cannot require an employee to use accrued, applicable paid leaves during these Ten (10) days. The employee may also elect to use the paid leave provided under the PSLA, as further explained below.

After the first Ten (10) days, employees requiring additional EFMLA leave (up to Ten (10) additional weeks) will be required to use any accrued, applicable paid leaves concurrently with EFMLA leave. In other words, after the first Ten (10) days of unpaid leave, employees will be required to use any accrued, applicable paid leave for the number of hours the employee would otherwise be scheduled to work. These hours will be paid at the employees' full daily rate of pay.

Should an employee's accrued, applicable paid leaves be exhausted, any additional leave will be paid at Two-Thirds (2/3)of an employee's regular rate of pay for the number of hours the employee would otherwise be scheduled to work. Pay will not exceed $200 per day and $10,000 in total, or $12,000 in total if using PSLA leave for the first Two (2) weeks. If you are required to use your accrued, applicable paid leaves and your daily wages would exceed $200 per day, the above limits will not apply for those days in question. Any unused portion of this pay will not carry over to the next year.

For employees with varying hours, one of two methods for computing the number of hours paid will be used:

a) If the employee has worked Six (6) months or more, the average number of hours that the employee was scheduled per day over the Six (6) month period ending on the date in which the employee takes leave, including hours for which the employee took leave of any type.
b) If the employee has worked less than Six (6) months, the expected number of hours to be scheduled per day at the time of hire.

***Employee Status and Benefits During Leave***

While an employee is on leave, the Village of Poplar Grove will continue the employee's health benefits during the leave period at the same level and under the same conditions as if the employee had continued to work. While on paid leave, the Village of Poplar Grove will continue to make payroll deductions to collect the employee's share of the premium. During any unpaid portions of

leave, the employee must continue to make this payment per instructions from your Department Head or Supervisor.

If the employee contributes to a life insurance or disability plan, the employer will continue making payroll deductions while the employee is on paid leave. During any portion of unpaid leave, the employee may request continuation of such benefits and must make arrangements to pay his or her portion of the premiums. If the employee does not continue these payments, the employer may discontinue coverage during the leave. If the employer maintains coverage, the employer may recover the costs incurred for paying the employee's share of any premiums, whether or not the employee returns to work.

***Procedure for Requesting Leave***

All employees requesting EFMLA leave must provide written notice of the need for leave to their Department Head or Supervisor as soon as practicable. Verbal notification will be accepted until practicable to complete and return the designated FFCRA leave form.

To be eligible to take EFMLA leave, an employee must provide the following information:

1. Employee's name;
2. Date(s) for which leave is requested;
3. The COVID-19 qualifying reason for the leave;
4. A statement representing that you are unable to work because of the qualified reason for leave;
5. The name(s) of the child/children being cared for;
    a. Certifying that your child/children are under the age of 18 (and if your child/children are over the age of 14, and your normal shift is during daylight hours, you must certify that special circumstances exist requiring you to provide care for such child/children), or
    b. Certifying that your child/children are 18 years of age or older and incapable of self-care because of a mental or physical disability.
6. The name of the school, place of care, or childcare provider that has closed or become unavailable;
7. A statement representing that no other suitable person will be caring for your child/children during the period for which you take EFMLA leave.

Failure to provide the required documentation listed above will result in a delay in the approval or a denial of EFMLA leave. **In cases of a non-emergent leave, the Village of Poplar Grove will request at least one (1) week notice prior to the leave being taken.**

***Employee Status After Leave***

Generally, an employee who takes FMLA leave will be able to return to the same position or a position with equivalent status, pay, benefits and other employment terms. The Village of Poplar Grove may choose to exempt certain key employees from this requirement and not return them to the same or similar position when doing so will cause substantial and grievous economic injury to

business operations. Key employees will be given written notice at the time FMLA leave is requested of their status as a key employee.

Please do not hesitate to reach out to your Department Head or Supervisor with any questions regarding the above information.

**Village of Poplar Grove**
**FFCRA FORMS**

DATE

NAME
ADDRESS

Dear FIRSTNAME:

**FAMILIES FIRST CORONAVIRUS RESPONSE ACT (FFCRA)**

Under a recently passed Federal law that remains effective until December 31, 2020, the Families First Coronavirus Response Act (FFCRA), you may be eligible to take leave under Emergency Paid Sick Leave (PSLA) and/or Emergency Family and Medical Leave (EFMLA) upon the submission of the appropriate qualifying documentation and provided you are unable to work or telework. If appropriate, the Village of Poplar Grove will notify you if you are eligible to telework and what your telework assignments are.

Under the FFCRA, you may qualify for PSLA and the EFMLA if you are unable to work (including unable to telework) due to a need for leave because you:

Reason 1: are subject to a federal, state, or local quarantine or isolation order related to COVID-19;

Reason 2: have been advised by a health care provider to self-quarantine related to COVID-19;

i) This means that a healthcare provider has advised you to self-quarantine based on a belief that:
   a. You have COVID-19;
   b. You may have COVID-19;
   c. Or you are particularly vulnerable to COVID-19.

Reason 3: are experiencing COVID-19 symptoms and are seeking a medical diagnosis;

i) This means that you are unable to work because you are taking affirmative steps to obtain a medical diagnosis, such as making, waiting for, or attending an appointment for a COVID-19 test.

Reason 4: are caring for an individual subject to an order described in Reason 1 or self-quarantine as described in Reason 2;

i) This means you are caring for an individual who expects or depends on your care during their quarantine or self-quarantine.
ii) The individual may be an immediate family member or someone who regularly resides in your home. The individual may also be someone with whom your relationship creates and expectation that you care for the person in a quarantine or self-quarantine situation, and that individual depends on you for care during the quarantine or self-quarantine.

Reason 5: are caring for a child whose school or place of care is closed (or child care provider is unavailable) for reasons related to COVID-19;

i) An employee requesting leave under PSLA or EFMLA to care for his/her child must provide the following information:
   a. This applies to a biological, adopted, or foster child, stepchild, legal ward, or child for whom you stand in loco parentis, and that is either:
      i. under the age of 18 (and if my child is over the age of 14, and my normal shift is during daylight hours, I certify that special circumstances exist requiring me to provide care to such child), or
      ii. 18 years of age or older and incapable of self-care because of a mental or physical disability.
   b. There must also be no other suitable person available to care for the child during the period of requested leave.
   c. To qualify for EFMLA, a school or place of care is closed or whose child care provider is unavailable due to a public health emergency, defined as an emergency with respect to COVID-19, declared by a federal, state, or local authority.

Reason 6: are experiencing any other substantially-similar condition specified by the Secretary of Health and Human Services, in consultation with the Secretaries of Labor and Treasury

i) The U.S. Department of Health and Human Services (HHS) has not yet identified any "substantially similar condition" that would allow an employee to take paid sick leave. If HHS does identify any such condition, the Department of Labor will issue guidance explaining when you may take paid sick leave on the basis of a "substantially similar condition."

In order to qualify for leave under PSLA or EFMLA, certain information must be submitted. Please carefully read the attached forms and provide the required information.

To the extent necessary based on the information provided, I am sending you a "*HIPAA release authorization"* form. You are directed to return the appropriate forms (attached to this memorandum), along with the appropriate supporting documentation, within fifteen (15) calendar days. Failure to return this form by the specified date can delay or negate your rights under EPSL and EFMLA.

**FAMILY MEDICAL LEAVE ACT (FMLA)**

In certain circumstances, should an employee qualify for leave under FMLA, an employee will be able to take leave for a COVID-19 related serious health condition. For leave taken under the FMLA for an employee's own serious health condition related to COVID-19, or to care for the employee's spouse, son, daughter, or parent with a serious health condition related to COVID-19, the normal FMLA certification requirements still apply. If you would like to be considered for FMLA leave, please request the FMLA certification paperwork.

Feel free to contact me at _____ or by email at _____should you have any questions.

Sincerely,

_____

PSLA ABSENCE FORM

I, _____ (employee name), request that I be granted leave in accordance with the following reason(s):

☐Reason 1: I am currently subject to a federal, state, or local quarantine or isolation order related to COVID-19;

- The government entity that issued the quarantine or isolation order to which I am subject is _____;

☐Reason 2: I have been advised by a health care provider to self-quarantine related to COVID-19 because my health care provider believes I have or may have COVID-19 or that I am particularly vulnerable to COVID-19;

- The name of the health care provider who advised me to self-quarantine for COVID-19 related reasons is: _____.

☐Reason 3: I am experiencing COVID-19 symptoms and am seeking a medical diagnosis;

☐Reason 4: I am caring for an individual subject to an order described in Reason 1 or self-quarantine as described in Reason 2. The individual expects or depends on me for care during his or her quarantine or self-quarantine and is (a) an immediate family member, (b) someone who regularly resides in my home, or (c) someone with whom my relationship creates an expectation that I would care for the person in a quarantine or self-quarantine situation, and that individual depends on me for care during the quarantine or self-quarantine;

- The government entity that issued the quarantine or isolation order to which the individual is subject is _____; or
- The name of the health care provider who advised him or her to self-quarantine for the COVID-19 related reasons set forth in Reason 2 is _____.
    - The name of the individual who has been advised to self-quarantine is _____ and his/her relation to me is _____.

☐Reason 5: I am caring for a child whose school or place of care is closed (or child care provider is unavailable) for reasons related to COVID-19; or

- The name of the child (children) is/are: _____.
- The name of the school, place of care, or child care provider is (if more than one, please specify): _____.
    - Provide appropriate documentation in support of the requested leave (examples below):
        - A letter, document, or email that has been published on a government, school, daycare, or childcare provider affirming that they are closed due to a public health emergency/COVID-19.
- ☐ I (check the box if true) certify that there is no other suitable person available to care for the above named child/children during the period of requested leave and that the information I have provided is true and accurate to the best of my knowledge.
- ☐ I (check the box if true) certify that, my request is for a biological, adopted, or foster child, stepchild, legal ward, or child for whom I stand in loco parentis, and that is either (a) under the age

of 18 (and if my child is over the age of 14, and my normal shift is during daylight hours, I certify that special circumstances exist requiring me to provide care to such child), or (b) 18 years of age or older and incapable of self-care because of a mental or physical disability.

☐Reason 6: I am experiencing any other substantially-similar condition specified by the Secretary of Health and Human Services, in consultation with the Secretaries of Labor and Treasury.

☐ I am requesting leave due to the above reason for the time period: _____(date)-_____(date) or for the following dates: _____ (dates).

For purposes of non-emergent leave (i.e. for purposes of foreseeable childcare leave), the Village of Poplar Grove asks that all required leave dates are requested at least one (1) week in advance.

☐ I certify that I am unable to work/telework due to the above reason.

☐ The following written support/documentation for the above reason for my request is (specify) (e.g., doctor's note, notice from daycare provider regarding closure):
_____
_____
_____.

☐ I certify that the information I have provided is true and accurate and I understand that providing false or misleading information about my absence(s) could result in disciplinary action, up to and including immediate termination of my employment.

Employee Signature: _____ Date: _____

Employer Signature: _____ Date: _____

EFMLA ABSENCE FORM

I, _____ (employee name), request that I be granted leave in accordance with the following reason:

I am caring for a child whose school or place of care is closed (or child care provider is unavailable) for reasons related to COVID-19 (this means that a school or place of care is closed or whose child care provider is unavailable due to a public health emergency, defined as an emergency with respect to COVID-19, declared by a federal, state, or local authority);

- I am requesting leave to care for a child (children) named: _____.
- The name of the school, place of care, or childcare provider is _____.
    - Provide appropriate documentation in support of the requested leave (examples below):
        - A letter, document, or email that has been published on a government, school, daycare, or childcare provider website affirming that they are closed due to a public health emergency defined as an emergency with respect to COVID-19, declared by a Federal, State, or local authority.
- ☐ I am requesting leave due to the above reason for the time period: _____ (date)-_____(date) or for the following dates: _____.
    - The Village of Poplar Grove asks that all foreseeable leave dates are requested at least one (1) week in advance.
- ☐ (check the box if true) I certify that there is no other suitable person available to care for the above-named child during the period of requested leave.
- ☐ (check the box if true) I certify that my request is for a biological, adopted, or foster child, stepchild, legal ward, or child for whom I stand in loco parentis, and that is either (a) under the age of 18 (and if my child is over the age of 14, and my normal shift is during daylight hours, I certify that special circumstances exist requiring me to provide care to such child), or (b) 18 years of age or older and incapable of self-care because of a mental or physical disability.

☐ (check the box if true) I certify that there is no other suitable person available to care for the above named child (children) during the period of requested leave and that the information I have provided is true and accurate to the best of my knowledge.

☐ (check the box if true) I certify that I am unable to work/telework due to the above reason.

☐ The following written support/documentation for the above reason for my request is (specify) (e.g., doctor's note, notice from daycare provider regarding closure):
_____
_____
_____.

☐ I certify that the information I have provided is true and accurate and I understand that providing false or misleading information about my absence(s) could result in disciplinary action, up to and including immediate termination of my employment.

Employee Signature: _____ Date: _____

Employer Signature: _____ Date: _____

**RESOLUTION NO. 20-35**

**A RESOLUTION OF THE VILLAGE OF POPLAR GROVE, ILLINOIS TEMPORARILY AMENDING THE VILLAGE OF POPLAR GROVE EMPLOYEE HANDBOOK TO INCLUDE A FAMILIES FIRST CORONAVIRUS RESPONSE ACT POLICY**

**WHEREAS**, the Village of Poplar Grove, Illinois ("Village") has an Employee Handbook; and

**WHEREAS**, currently, the Village does not have a written policy governing the administration of the Families First Coronavirus Response Act ("FFCRA") in the Employee Handbook; and

**WHEREAS**, in response to the ongoing COVID-19 Pandemic, the Village recognizes the need to include a policy in the Employee Handbook which sets forth the process, procedure, and rules which shall govern the Village's administration of said requests to take leave under the FFCRA; and

**WHEREAS**, the Village wishes to adopt said FFCRA policy to be effective from April 1, 2020 through December 31, 2020, unless otherwise extended by Federal Law; and

**WHEREAS**, the Village wishes to amend its Employee Handbook to include the FFCRA Policy attached hereto as Exhibit A; and

**WHEREAS**, the Village finds that such temporary amendments are in the best interest of the Village and its citizens.

**NOW, THEREFORE, BE IT RESOLVED** by the President and Board of Trustees of the Village of Poplar Grove, Illinois as follows:

1. The above recitals are incorporated herein and made a part hereof.

2. The Village Board hereby accepts and retroactively approves the Village of Poplar Grove's temporary amendment to the Employee Handbook to include a FFCRA Policy as of April 1, 2020, such amendment is attached hereto as Exhibit A.

3. The Village President is hereby authorized to execute this said resolution and any other documents necessary to effectuate the same.

PASSED UPON MOTION BY _____

SECONDED BY _____

BY ROLL CALL VOTE THIS _____ DAY OF _____, 2020

AS FOLLOWS:

VOTING “AYE”: _____

_____

VOTING “NAY”: _____

_____

ABSENT, ABSTAIN, OTHER _____

_____

APPROVED_____, 2020

ATTEST:

_____ _____

CLERK PRESIDENT

## EXHIBIT A: FAMILIES FIRST CORONAVIRUS RESPONSE ACT POLICY

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/24/2020 | AP | A.A. ANDERSON, INC | Invoice: 01-21510 Ref#: 17292(ZERO TURN BLADES) | | |
| AP Trx #: 10716 | | | | | |
| | | ZERO TURN BLADES | 01-53-4227 | 109.98 | |
| | | Vnd: 0002 Invoice: 01-21510 | 01-00-2200 | | 109.98 |
| | | Expected Check Run: 10/07/2020 | | | |
| | | | | 109.98 | 109.98 |
| 09/30/2020 | AP | ABBOTT RUBBER COMPANY, INC. | Invoice: 5371135 Ref#: 17364(SNOW PLOW HOSES) | | |
| AP Trx #: 10717 | | | | | |
| | | SNOW PLOW HOSES | 01-53-4229 | 353.72 | |
| | | Vnd: 0380 Invoice: 5371135 | 01-00-2200 | | 353.72 |
| | | Expected Check Run: 10/21/2020 | | | |
| | | | | 353.72 | 353.72 |
| 09/24/2020 | AP | ABBY PEST ELIMINATION LLC | Invoice: 8801,8802,8803 Ref#: 17291(PEST CONTROL@VH, PW SHOP, NWWTP) | | |
| AP Trx #: 10718 | | | | | |
| | | PEST CONTROL @VH | 01-50-4240 | 45.00 | |
| | | PEST CONTROL @PW SHOP | 01-53-4240 | 65.00 | |
| | | PEST CONTROL @NWWTP | 31-77-4240 | 160.00 | |
| | | Vnd: 0371 Invoice: 8801,8802,8803 | 01-00-2200 | | 110.00 |
| | | Vnd: 0371 Invoice: 8801,8802,8803 | 31-00-2200 | | 160.00 |
| | | Expected Check Run: 10/07/2020 | | | |
| | | | | 270.00 | 270.00 |
| 10/06/2020 | AP | ABBY PEST ELIMINATION LLC | Invoice: 9129,9130,9131 Ref#: 17363(PEST CONTROL@VH, PW SHOP, NWWTP) | | |
| AP Trx #: 10719 | | | | | |
| | | PEST CONTROL @VH | 01-50-4240 | 45.00 | |
| | | PEST CONTROL @PW SHOP | 01-53-4240 | 65.00 | |
| | | PEST CONTROL @NWWTP | 31-77-4240 | 160.00 | |
| | | Vnd: 0371 Invoice: 9129,9130,9131 | 01-00-2200 | | 110.00 |
| | | Vnd: 0371 Invoice: 9129,9130,9131 | 31-00-2200 | | 160.00 |
| | | Expected Check Run: 10/21/2020 | | | |
| | | | | 270.00 | 270.00 |
| 09/30/2020 | AP | ADOBE SYSTEMS INCORPORATED | Invoice: 091620 Ref#: 17397(ADOBE RENEWAL ACCT CLERK) | | |
| AP Trx #: 10720 | | | | | |
| | | ADOBE RENEWAL ACCT CLERK LICENSE | 01-50-4214 | 191.12 | |
| | | Vnd: 0423 Invoice: 091620 | 01-00-2200 | | 191.12 |
| | | Expected Check Run: 10/07/2020 | | | |
| | | | | 191.12 | 191.12 |
| 09/30/2020 | AP | ADT COMMERCIAL LLC | Invoice: 136363531 Ref#: 17365(FIRE & SECURITY SERVICE 10/26-11/25/20) | | |
| AP Trx #: 10721 | | | | | |
| | | FIRE & SECURITY SERVICE 9/26-10/25/20 | 01-50-4206 | 163.49 | |
| | | Vnd: 0006 Invoice: 136363531 | 01-00-2200 | | 163.49 |
| | | Expected Check Run: 10/21/2020 | | | |
| | | | | 163.49 | 163.49 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/30/2020 | AP | AMAZON.COM | Invoice: 764649588436 Ref#: 17389(HAND SANITIZER) | | |
| AP Trx #: 10722 | | | | | |
| | | OPERATING SUPPLIES HAND SANITIZER | 01-53-4302 | 57.72 | |
| | | Vnd: 0338 Invoice: 764649588436 | 01-00-2200 | | 57.72 |
| | | Expected Check Run: 10/07/2020 | | 57.72 | 57.72 |
| 09/30/2020 | AP | AMAZON.COM | Invoice: 113-7305239-1284263 Ref#: 17390(SWEEPER OIL FILTERS) | | |
| AP Trx #: 10723 | | | | | |
| | | SWEEPER OIL FILTERS | 01-53-4227 | 107.96 | |
| | | Vnd: 0338 Invoice: 113-7305239-1284263 | 01-00-2200 | | 107.96 |
| | | Expected Check Run: 10/07/2020 | | 107.96 | 107.96 |
| 09/30/2020 | AP | ARNESON OIL COMPANY | Invoice: 462205 Ref#: 17366(15W40) | | |
| AP Trx #: 10724 | | | | | |
| | | VEHCLE MAINTENANCE 15W40 1 DRUM | 01-53-4226 | 499.99 | |
| | | Vnd: 0459 Invoice: 462205 | 01-00-2200 | | 499.99 |
| | | Expected Check Run: 10/07/2020 | | 499.99 | 499.99 |
| 09/24/2020 | AP | B&F CONSTRUCTION CODE SERVICE, INC. | Invoice: 54491 Ref#: 17293(PLAN REVIEW: 418 CLARK CT. SOLAR PANELS) | | |
| AP Trx #: 10725 | | | | | |
| | | PLAN REVIEW: 418 CLARK CT. SOLAR PANELS | 01-55-4215 | 225.00 | |
| | | Vnd: 0356 Invoice: 54491 | 01-00-2200 | | 225.00 |
| | | Expected Check Run: 10/07/2020 | | 225.00 | 225.00 |
| 09/24/2020 | AP | B&F CONSTRUCTION CODE SERVICE, INC. | Invoice: 13363 Ref#: 17294(BLDG/MISC.PLAN REVIEW & CODE INSPECTIONS) | | |
| AP Trx #: 10726 | | | | | |
| | | BLDG/MISC.PLAN REVIEW INSPECTIONS AUG | 01-55-4215 | 5,065.00 | |
| | | CODE INSPECTIONS AUG | 01-55-4216 | 2,112.50 | |
| | | Vnd: 0356 Invoice: 13363 | 01-00-2200 | | 7,177.50 |
| | | Expected Check Run: 10/07/2020 | | 7,177.50 | 7,177.50 |
| 09/30/2020 | AP | B&F CONSTRUCTION CODE SERVICE, INC. | Invoice: 54529 Ref#: 17336(PLAN REVIEW: 427 SHADED RUE DR LOT 19) | | |
| AP Trx #: 10727 | | | | | |
| | | PLAN REVIEW:427 SHADED RUE DR LOT 19 | 01-55-4215 | 275.00 | |
| | | Vnd: 0356 Invoice: 54529 | 01-00-2200 | | 275.00 |
| | | Expected Check Run: 10/07/2020 | | 275.00 | 275.00 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/30/2020 | AP | B&F CONSTRUCTION CODE SERVICE, INC. Invoice: 54530 Ref#: 17337(PLAN REVIEW: 440 OLD ORCHARD, LOT 26) | | | |
| AP Trx #: 10728 | | | | | |
| | | PLAN REVIEW:440 OLD ORCHARD LOT 26 | 01-55-4215 | 275.00 | |
| | | Vnd: 0356 Invoice: 54530 | 01-00-2200 | | 275.00 |
| | | Expected Check Run: 10/07/2020 | | 275.00 | 275.00 |
| 09/30/2020 | AP | B&F CONSTRUCTION CODE SERVICE, INC. Invoice: 54545 Ref#: 17338(PLAN REVIEW: 418 MAPLE LEAF LOT 7) | | | |
| AP Trx #: 10729 | | | | | |
| | | PLAN REVIEW:418 MAPLE LEAF LOT 7 | 01-55-4215 | 275.00 | |
| | | Vnd: 0356 Invoice: 54545 | 01-00-2200 | | 275.00 |
| | | Expected Check Run: 10/07/2020 | | 275.00 | 275.00 |
| 09/30/2020 | AP | BLAIN'S FARM & FLEET Invoice: 9884 Ref#: 17367(BATTERY GREASE GUN) | | | |
| AP Trx #: 10730 | | | | | |
| | | BATTERY GREASE GUN | 31-75-4301 | 179.00 | |
| | | Vnd: 0361 Invoice: 9884 | 31-00-2200 | | 179.00 |
| | | Expected Check Run: 10/21/2020 | | 179.00 | 179.00 |
| 09/30/2020 | AP | BLAKE OIL COMPANY Invoice: 411918 Ref#: 17339(DIESEL FUEL) | | | |
| AP Trx #: 10731 | | | | | |
| | | GASOLINE AND OIL | 01-53-4303 | 342.69 | |
| | | Vnd: 0049 Invoice: 411918 | 01-00-2200 | | 342.69 |
| | | Expected Check Run: 10/07/2020 | | 342.69 | 342.69 |
| 09/24/2020 | AP | BOBCAT OF ROCKFORD Invoice: 01-164379 Ref#: 17295(ME ADAPTER) | | | |
| AP Trx #: 10732 | | | | | |
| | | EQUIPMENT MAINTENANCE ME ADAPTER | 01-53-4227 | 24.64 | |
| | | Vnd: 0051 Invoice: 01-164379 | 01-00-2200 | | 24.64 |
| | | Expected Check Run: 10/07/2020 | | 24.64 | 24.64 |
| 09/24/2020 | AP | BOBCAT OF ROCKFORD Invoice: 01-164138 Ref#: 17296(DOG PARK GRADING) | | | |
| AP Trx #: 10733 | | | | | |
| | | PARKS EQUIPMENT RENTAL | 01-52-4440 | 667.50 | |
| | | Vnd: 0051 Invoice: 01-164138 | 01-00-2200 | | 667.50 |
| | | Expected Check Run: 10/07/2020 | | 667.50 | 667.50 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/30/2020 | AP | BOBCAT OF ROCKFORD | Invoice: 01-164698 Ref#: 17340(RENTAL DAMAGES REPLACE BROKEN TEETH) | | |
| AP Trx #: 10734 | | | | | |
| | | RENTAL DAMAGES REPLACE BROKEN TEETH | 01-52-4440 | 238.97 | |
| | | Vnd: 0051 Invoice: 01-164698 | 01-00-2200 | | 238.97 |
| | | Expected Check Run: 10/07/2020 | | 238.97 | 238.97 |
| 09/24/2020 | AP | BOONE COUNTY HIGHWAY FUND | Invoice: 4077-B Ref#: 17298(LABOR FOR ROAD STRIPING 2020) | | |
| AP Trx #: 10735 | | | | | |
| | | ROAD CONSTR LABOR FOR ROAD STRIP 2020 | 20-00-4409 | 272.38 | |
| | | Vnd: 0039 Invoice: 4077-B | 20-00-2200 | | 272.38 |
| | | Expected Check Run: 10/07/2020 | | 272.38 | 272.38 |
| 09/24/2020 | AP | BOONE COUNTY MOTOR FUEL TAX FUND | Invoice: 4077-A Ref#: 17297(STRIPING PAINT FOR 2020) | | |
| AP Trx #: 10736 | | | | | |
| | | ROAD CONSTRUCTION STRIPING PAINT 2020 | 20-00-4409 | 787.34 | |
| | | Vnd: 0040 Invoice: 4077-A | 20-00-2200 | | 787.34 |
| | | Expected Check Run: 10/07/2020 | | 787.34 | 787.34 |
| 09/30/2020 | AP | CERONI PIPING COMPANY | Invoice: 45534 Ref#: 17368(ANNUAL BACKFLOW INSPECTION) | | |
| AP Trx #: 10737 | | | | | |
| | | PROFESSIONAL SERVICES | 01-50-4240 | 150.00 | |
| | | Vnd: 0065 Invoice: 45534 | 01-00-2200 | | 150.00 |
| | | Expected Check Run: 10/21/2020 | | 150.00 | 150.00 |
| 09/24/2020 | AP | CINTAS CORPORATION #355 | Invoice: 4058668479 Ref#: 17299(SOAP,SANI-CLIPS,FLOORMAT,UNIFORM/JEAN C | | |
| AP Trx #: 10738 | | | | | |
| | | SOAP,SANI-CLIPS,FLOORMAT WK# | 01-50-4301 | 14.28 | |
| | | UNIFORM/JEAN CLEANING WK# | 01-53-4107 | 22.98 | |
| | | Vnd: 0098 Invoice: 4058668479 | 01-00-2200 | | 37.26 |
| | | Expected Check Run: 10/07/2020 | | 37.26 | 37.26 |
| 09/24/2020 | AP | CINTAS CORPORATION #355 | Invoice: 4060568665 Ref#: 17300(SOAP,SANI-CLIPS,FLOORMAT,UNIFORM/JEAN C | | |
| AP Trx #: 10739 | | | | | |
| | | SOAP,SANI-CLIPS,FLOORMAT WK# | 01-50-4301 | 14.28 | |
| | | UNIFORM/JEAN CLEANING WK# | 01-53-4107 | 22.98 | |
| | | Vnd: 0098 Invoice: 4060568665 | 01-00-2200 | | 37.26 |
| | | Expected Check Run: 10/07/2020 | | 37.26 | 37.26 |

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| Post Date | Journal | Description | GL Number | DR Amount | CR Am |
|---|---|---|---|---|---|
| 09/24/2020 | AP | CINTAS CORPORATION #355 | Invoice: 4061158107 Ref#: 17301(SOAP,SANI-CLIPS,FLOORMAT,UNIFORM/JEAN C | | |
| AP Trx #: 10740 | | | | | |
| | | SOAP,SANI-CLIPS,FLOORMAT WK# | 01-50-4301 | 14.28 | |
| | | UNIFORM/JEAN CLEANING WK# | 01-53-4107 | 22.98 | |
| | | Vnd: 0098 Invoice: 4061158107 | 01-00-2200 | | 37.26 |
| | | Expected Check Run: 10/07/2020 | | 37.26 | 37.26 |
| 09/30/2020 | AP | CINTAS CORPORATION #355 | Invoice: 4062529817 Ref#: 17342(SOAP,SANI-CLIPS,FLOORMAT,UNIFORM/JEAN C | | |
| AP Trx #: 10741 | | | | | |
| | | SOAP,SANI-CLIPS,FLOORMAT WK# | 01-50-4301 | 14.28 | |
| | | UNIFORM/JEAN CLEANING WK# | 01-53-4107 | 22.98 | |
| | | Vnd: 0098 Invoice: 4062529817 | 01-00-2200 | | 37.26 |
| | | Expected Check Run: 10/07/2020 | | 37.26 | 37.26 |
| 09/30/2020 | AP | CINTAS CORPORATION #355 | Invoice: 4061951678 Ref#: 17343(SOAP,SANI-CLIPS,FLOORMAT,UNIFORM/JEAN C | | |
| AP Trx #: 10742 | | | | | |
| | | SOAP,SANI-CLIPS,FLOORMAT WK# | 01-50-4301 | 14.28 | |
| | | UNIFORM/JEAN CLEANING WK# | 01-53-4107 | 22.98 | |
| | | Vnd: 0098 Invoice: 4061951678 | 01-00-2200 | | 37.26 |
| | | Expected Check Run: 10/07/2020 | | 37.26 | 37.26 |
| 10/06/2020 | AP | CINTAS CORPORATION #355 | Invoice: 4063193454 Ref#: 17369(SOAP,SANI-CLIPS,FLOORMAT,UNIFORM/JEAN C | | |
| AP Trx #: 10743 | | | | | |
| | | SOAP,SANI-CLIPS,FLOORMAT WK# | 01-50-4301 | 14.28 | |
| | | UNIFORM/JEAN CLEANING WK# | 01-53-4107 | 22.98 | |
| | | Vnd: 0098 Invoice: 4063193454 | 01-00-2200 | | 37.26 |
| | | Expected Check Run: 10/21/2020 | | 37.26 | 37.26 |
| 09/30/2020 | AP | CITY OF BELVIDERE | Invoice: 09-2020 Ref#: 17350(PLANNING AND ZONING SEPT 20) | | |
| AP Trx #: 10744 | | | | | |
| | | PLANNING AND ZONING SERVICES SEPT 2020 | 01-50-4237 | 240.00 | |
| | | Vnd: 0079 Invoice: 09-2020 | 01-00-2200 | | 240.00 |
| | | Expected Check Run: 10/07/2020 | | 240.00 | 240.00 |
| 09/24/2020 | AP | CLARKE ENV MOSQUITO MGMT SVC | Invoice: 001012583 Ref#: 17302(MOSQUITO MANAGEMENT SERVICE) | | |
| AP Trx #: 10745 | | | | | |
| | | PROFESSIONAL SERVICES MOSQUITO MANAGEMT | 01-55-4240 | 1,800.00 | |
| | | Vnd: 0529 Invoice: 001012583 | 01-00-2200 | | 1,800.00 |
| | | Expected Check Run: 10/07/2020 | | 1,800.00 | 1,800.00 |

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| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/24/2020 | AP | COMED | Invoice: 0150062061SEPT2020 Ref#: 17303(#0150062061 MULTI-VPG ACCTS) | | |
| AP Trx #: 10746 | | | | | |
| | | 0582051009 4194 DAWSON LK L/S | 31-75-4204 | 109.06 | |
| | | 0099144153 502 WACO WAY L/S | 31-75-4204 | 29.80 | |
| | | 0699087057 12305 RT 76 L/S | 31-75-4204 | 28.82 | |
| | | 0798466001 105 BULLARD ST L/S | 31-75-4204 | 98.59 | |
| | | 2151017026 13505 HARVEST WAY L/S | 31-75-4204 | 124.37 | |
| | | 4659084049 203 BEAVER DR L/S | 31-75-4204 | 59.60 | |
| | | 2143026020 5500 WHITING RD L/S | 31-75-4204 | 88.16 | |
| | | 3399123028 1000 WACO WAY C/L/S | 31-75-4204 | 249.04 | |
| | | 1659118047 100 S STATE ST W#2 | 31-68-4204 | 45.26 | |
| | | 0507019070 RT 173 W#3 & W/T | 31-68-4204 | 681.58 | |
| | | 5691014002 4420 MENGE LN W#4 | 31-68-4204 | 639.85 | |
| | | 5379007025 4870 WOODSTOCK RD W#5&6 | 31-68-4204 | 1,155.12 | |
| | | 1419002002 228 BOEING TRL P/S & W/T | 31-68-4204 | 50.78 | |
| | | 1923071033 610 S STATE ST NWWTP | 31-77-4204 | 3,586.07 | |
| | | 3291029012 12211 RT 76 SWWTP | 31-79-4204 | 6,860.83 | |
| | | 0027089050 291 PRAIRIE KNOLL L/S | 31-75-4204 | 140.49 | |
| | | Vnd: 0278 Invoice: 0150062061SEPT2020 | 31-00-2200 | | 13,947.42 |
| | | Expected Check Run: 10/07/2020 | | 13,947.42 | 13,947.42 |
| 09/30/2020 | AP | COMED | Invoice: 1233092031SEPT20 Ref#: 17341(COMMUNITY & DUSK TO DAWN STREET L | | |
| AP Trx #: 10747 | | | | | |
| | | COMMUNITY STREET LIGHTING | 01-53-4230 | 4,084.87 | |
| | | DUSK2DAWN STREET LIGHTING | 01-53-4230 | 71.51 | |
| | | Vnd: 0278 Invoice: 1233092031SEPT20 | 01-00-2200 | | 4,156.38 |
| | | Expected Check Run: 10/07/2020 | | 4,156.38 | 4,156.38 |
| 09/24/2020 | AP | CONSERV FS INC | Invoice: 33020093 Ref#: 17304(ROUNDUP PROMAX 1.67 GAL X 2) | | |
| AP Trx #: 10748 | | | | | |
| | | ROUNDUP PROMAX 1.67 GAL X 2 | 01-52-4225 | 143.90 | |
| | | Vnd: 0073 Invoice: 33020093 | 01-00-2200 | | 143.90 |
| | | Expected Check Run: 10/07/2020 | | 143.90 | 143.90 |
| 09/25/2020 | AP | CORE & MAIN LP | Invoice: M953077 Ref#: 17305(STORM SEWER CASTING OLSON WOODS) | | |
| AP Trx #: 10749 | | | | | |
| | | STORM SEWER CASTING OLSON WOODS | 01-53-4228 | 243.00 | |
| | | Vnd: 0347 Invoice: M953077 | 01-00-2200 | | 243.00 |
| | | Expected Check Run: 10/07/2020 | | 243.00 | 243.00 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/30/2020 | AP | CORE & MAIN LP | Invoice: N049063 Ref#: 17344(METERS) | | |
| AP Trx #: 10750 | | | | | |
| | | METER & MXU PURCHASES | 31-70-4306 | 1,000.00 | |
| | | Vnd: 0347 Invoice: N049063 | 31-00-2200 | | 1,000.00 |
| | | Expected Check Run: 10/07/2020 | | 1,000.00 | 1,000.00 |
| 09/25/2020 | AP | COUNTRYSIDE AUTO REPAIR | Invoice: 25894 Ref#: 17306(RECHARGE A/C KUBOTA TRACTOR) | | |
| AP Trx #: 10751 | | | | | |
| | | RECHARGE A/C KUBOTA TRACTOR | 01-53-4227 | 149.71 | |
| | | Vnd: 0352 Invoice: 25894 | 01-00-2200 | | 149.71 |
| | | Expected Check Run: 10/07/2020 | | 149.71 | 149.71 |
| 09/25/2020 | AP | FASTENAL | Invoice: ILBEV70637 Ref#: 17307(NWWTP BOLTS FOR DECANTER BRACE) | | |
| AP Trx #: 10752 | | | | | |
| | | MAINTENANCE SUPPLIES | 31-77-4301 | 16.92 | |
| | | Vnd: 0094 Invoice: ILBEV70637 | 31-00-2200 | | 16.92 |
| | | Expected Check Run: 10/07/2020 | | 16.92 | 16.92 |
| 09/30/2020 | AP | FOX VALLEY INTERNET, INC. | Invoice: 3884966 Ref#: 17345(NWWTP & SWWTP INTERNET) | | |
| AP Trx #: 10753 | | | | | |
| | | NWWTP INTERNET 4/25-5/24/2020 | 31-77-4202 | 29.95 | |
| | | SWWTP INTERNET 4/25-5/24/2020 | 31-79-4202 | 24.95 | |
| | | Vnd: 0097 Invoice: 3884966 | 31-00-2200 | | 54.90 |
| | | Expected Check Run: 10/07/2020 | | 54.90 | 54.90 |
| 09/30/2020 | AP | FRINK'S SEWER & DRAIN INC. | Invoice: 94963 Ref#: 17346(TRAILER JETTING MAIN LINE TO CITY MAIN) | | |
| AP Trx #: 10754 | | | | | |
| | | PROFESSIONAL SERVICES | 31-75-4240 | 279.00 | |
| | | Vnd: 0346 Invoice: 94963 | 31-00-2200 | | 279.00 |
| | | Expected Check Run: 10/07/2020 | | 279.00 | 279.00 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/30/2020 | AP | FRONTIER | Invoice: 2241590281SEPT2020 Ref#: 17370(VILLAGE PHONE LINES X13) | | |
| AP Trx #: 10755 | | | | | |
| | | 2170497024 SPECIAL ACCESS LINES W#2 | 31-68-4202 | 82.60 | |
| | | 8155440520 PRAIRIE KNOLL L/S | 31-50-4202 | 47.39 | |
| | | 8155443817 WACO WAY L/S | 31-50-4202 | 59.74 | |
| | | 8155476487 WOODSTOCK W#5&6 | 31-68-4202 | 47.39 | |
| | | 8155477209 12211 RT76 SWWTP | 31-79-4202 | 60.00 | |
| | | 8157650565 COUNTRYSIDE L/S | 31-50-4202 | 52.77 | |
| | | 8157650940 RT173 W#3 | 31-68-4202 | 47.39 | |
| | | 8157651774 NWWTP TOWER | 31-77-4202 | 82.42 | |
| | | 8157651859 BEAVER RD L/S | 31-50-4202 | 45.26 | |
| | | 8157651914 WHITING RD L/S | 31-50-4202 | 66.04 | |
| | | 8157652456 610 S STATE NWWTP | 31-77-4202 | 109.89 | |
| | | 8157659169 COUNTYSIDE W#4 | 31-68-4202 | 47.39 | |
| | | 8157659391 DAWSON LK L/S | 31-50-4202 | 45.19 | |
| | | Vnd: 0096 Invoice: 2241590281SEPT2020 | 31-00-2200 | | 793.47 |
| | | Expected Check Run: 10/07/2020 | | 793.47 | 793.47 |
| 09/30/2020 | AP | GRUBHUB | Invoice: 090220 Ref#: 17398(GRUB HUB STEAK AND SHAKE) | | |
| AP Trx #: 10756 | | | | | |
| | | GRUB HUB STEAK AND SHAKE | 01-57-4205 | 32.29 | |
| | | Vnd: MISC Invoice: 090220 | 01-00-2200 | | 32.29 |
| | | Expected Check Run: 10/07/2020 | | 32.29 | 32.29 |
| 09/30/2020 | AP | HAWKINS, INC. | Invoice: 4794060 Ref#: 17347(TEFLON BALLS, CHECK VALVES) | | |
| AP Trx #: 10757 | | | | | |
| | | MAINTENANCE SUPPLIES | 31-70-4301 | 187.01 | |
| | | Vnd: 0109 Invoice: 4794060 | 31-00-2200 | | 187.01 |
| | | Expected Check Run: 10/07/2020 | | 187.01 | 187.01 |
| 09/30/2020 | AP | HAWKINS, INC. | Invoice: 4795707 Ref#: 17348(ALUMINUM SULFATE) | | |
| AP Trx #: 10758 | | | | | |
| | | UTILITY SYSTEM CHEMICALS ALUM SULFATE | 31-79-4305 | 1,390.90 | |
| | | Vnd: 0109 Invoice: 4795707 | 31-00-2200 | | 1,390.90 |
| | | Expected Check Run: 10/07/2020 | | 1,390.90 | 1,390.90 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/30/2020 | AP | HAWKINS, INC. | Invoice: 4794050 Ref#: 17349(AZONE HYDROFLU ACID LPC-AM`) | | |
| AP Trx #: 10759 | | | | | |
| | | AZONE 15 | 31-70-4305 | 277.77 | |
| | | FREIGHT | 31-70-4305 | 37.50 | |
| | | HYDROFLUOSILICIC ACID | 31-70-4305 | 262.69 | |
| | | LPC-AM | 31-70-4305 | 743.37 | |
| | | Vnd: 0109 Invoice: 4794050 | 31-00-2200 | | 1,321.33 |
| | | Expected Check Run: 10/07/2020 | | | |
| | | | | 1,321.33 | 1,321.33 |
| 09/25/2020 | AP | HEARTLAND BANK & TRUST COMPANY | Invoice: SERIES 2015 110120 Ref#: 17308(G.O. BONDS SERIES 2015 INTEREST | | |
| AP Trx #: 10760 | | | | | |
| | | INTEREST - SERIES 2015 | 31-50-4815 | 45,162.50 | |
| | | Vnd: 0110 Invoice: SERIES 2015 110120 | 31-00-2200 | | 45,162.50 |
| | | Expected Check Run: 10/07/2020 | | | |
| | | | | 45,162.50 | 45,162.50 |
| 09/25/2020 | AP | HEARTLAND BANK & TRUST COMPANY | Invoice: SERIES 2012A 110120 Ref#: 17309(G.O. BONDS SERIES 2012A INTER | | |
| AP Trx #: 10761 | | | | | |
| | | INTEREST - SERIES 2012A | 31-50-4813 | 1,572.50 | |
| | | Vnd: 0110 Invoice: SERIES 2012A 110120 | 31-00-2200 | | 1,572.50 |
| | | Expected Check Run: 10/07/2020 | | | |
| | | | | 1,572.50 | 1,572.50 |
| 09/25/2020 | AP | HEARTLAND BANK & TRUST COMPANY | Invoice: SERIES 2012B 110120 Ref#: 17310(GO BONDS SERIES 2012B INTEREST | | |
| AP Trx #: 10762 | | | | | |
| | | INTEREST - SERIES 2012B | 31-50-4814 | 15,687.50 | |
| | | Vnd: 0110 Invoice: SERIES 2012B 110120 | 31-00-2200 | | 15,687.50 |
| | | Expected Check Run: 10/07/2020 | | | |
| | | | | 15,687.50 | 15,687.50 |
| 09/25/2020 | AP | JACK'S TIRE SALES & SERVICE | Invoice: 1-274846 Ref#: 17312(54" ZERO TURN TIRES) | | |
| AP Trx #: 10763 | | | | | |
| | | 54" ZERO TURN TIRES | 01-53-4227 | 282.50 | |
| | | Vnd: 0531 Invoice: 1-274846 | 01-00-2200 | | 282.50 |
| | | Expected Check Run: 10/07/2020 | | | |
| | | | | 282.50 | 282.50 |
| 09/30/2020 | AP | JEFF & KIM GISS | Invoice: REFUND100720 Ref#: 17335(UB refund for account: 0011001000) | | |
| AP Trx #: 10764 | | | | | |
| | | WATER BASE | 31-00-1401 | 57.49 | |
| | | Vnd: MISC Invoice: REFUND100720 | 31-00-2200 | | 57.49 |
| | | Expected Check Run: 10/07/2020 | | | |
| | | | | 57.49 | 57.49 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/30/2020 | AP | JOHNSON TRACTOR | Invoice: WJ94927 Ref#: 17351(KUBOTA REPAIRS INS CLAIM) | | |
| AP Trx #: 10765 | | KUBOTA REPAIRS INS CLAIM | 01-53-4407 | 15,871.84 | |
| | | Vnd: 0351 Invoice: WJ94927 | 01-00-2200 | | 15,871.84 |
| | | Expected Check Run: 10/07/2020 | | 15,871.84 | 15,871.84 |
| 09/30/2020 | AP | LAKESIDE INTERNATIONAL, LLC | Invoice: 7172551P Ref#: 17391(RADIATOR HOSE 05) | | |
| AP Trx #: 10766 | | RADIATOR HOSE 05 | 01-53-4226 | 42.91 | |
| | | Vnd: 0152 Invoice: 7172551P | 01-00-2200 | | 42.91 |
| | | Expected Check Run: 10/07/2020 | | 42.91 | 42.91 |
| 09/30/2020 | AP | LAUTERBACH & AMEN, LLP | Invoice: 48951 Ref#: 17352(AUDIT SERVICES FY20) | | |
| AP Trx #: 10767 | | AUDITING SERVICES | 01-50-4211 | 2,000.00 | |
| | | Vnd: 0144 Invoice: 48951 | 01-00-2200 | | 2,000.00 |
| | | Expected Check Run: 10/07/2020 | | 2,000.00 | 2,000.00 |
| 09/25/2020 | AP | MARVS TOWING & REPAIR, INC. | Invoice: 73690 Ref#: 17314(FITTING FOR PESTICIDE SPRAYER) | | |
| AP Trx #: 10768 | | FITTING FOR PESTICIDE SPRAYER | 01-53-4302 | 5.34 | |
| | | Vnd: 0532 Invoice: 73690 | 01-00-2200 | | 5.34 |
| | | Expected Check Run: 10/07/2020 | | 5.34 | 5.34 |
| 09/30/2020 | AP | MCMAHON ASSOCIATES, INC. | Invoice: 0702273 Ref#: 17354(IL 173 WATER MAIN IMPROVEMENTS) | | |
| AP Trx #: 10769 | | IL 173 WATER MAIN IMPROVEMENTS | 90-53-4460 | 1,385.60 | |
| | | Vnd: 0159 Invoice: 0702273 | 90-00-2200 | | 1,385.60 |
| | | Expected Check Run: 10/07/2020 | | 1,385.60 | 1,385.60 |
| 09/30/2020 | AP | MCMAHON ASSOCIATES, INC. | Invoice: 0702274 Ref#: 17355(MAIN & WASHINGTON IMPROVEMENTS) | | |
| AP Trx #: 10770 | | MAIN & WASHINGTON IMPROVEMENTS | 90-53-4460 | 7,055.00 | |
| | | Vnd: 0159 Invoice: 0702274 | 90-00-2200 | | 7,055.00 |
| | | Expected Check Run: 10/07/2020 | | 7,055.00 | 7,055.00 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/30/2020 | AP | MCMAHON ASSOCIATES, INC. | Invoice: 0702275 Ref#: 17356(NEW PUBLIC WORKS BUILDING) | | |
| AP Trx #: 10771 | | | | | |
| | | NEW PUBLIC WORKS BUILDING | 90-50-4412 | 11,414.00 | |
| | | Vnd: 0159 Invoice: 0702275 | 90-00-2200 | | 11,414.00 |
| | | Expected Check Run: 10/07/2020 | | 11,414.00 | 11,414.00 |
| 09/30/2020 | AP | MCMAHON ASSOCIATES, INC. | Invoice: 0702277 Ref#: 17357(ENGINERING AS NEEDED AUG 20) | | |
| AP Trx #: 10772 | | | | | |
| | | ENGINEERING SERVICES AUG 20 | 01-50-4212 | 505.30 | |
| | | ENGINEERING SERVICES AUG 20 | 01-55-4212 | 461.10 | |
| | | Vnd: 0159 Invoice: 0702277 | 01-00-2200 | | 966.40 |
| | | Expected Check Run: 10/07/2020 | | 966.40 | 966.40 |
| 09/30/2020 | AP | MCMAHON ASSOCIATES, INC. | Invoice: 0702276 Ref#: 17358(PHASE II CLEAN & TELEVISE SEWER) | | |
| AP Trx #: 10773 | | | | | |
| | | PHASE II CLEAN & TELEVISE SEWER | 01-50-4212 | 2,500.00 | |
| | | Vnd: 0159 Invoice: 0702276 | 01-00-2200 | | 2,500.00 |
| | | Expected Check Run: 10/07/2020 | | 2,500.00 | 2,500.00 |
| 09/28/2020 | AP | MEDIACOM | Invoice: 838491225009006OSEPT Ref#: 17320(PHONE, INTERNET VH) | | |
| AP Trx #: 10774 | | | | | |
| | | TELEPHONE & INTERNET SERVICES | 01-50-4202 | 692.92 | |
| | | Vnd: 0163 Invoice: 838491225009006OSEPT | 01-00-2200 | | 692.92 |
| | | Expected Check Run: 10/07/2020 | | 692.92 | 692.92 |
| 09/25/2020 | AP | MENARDS | Invoice: 45095 Ref#: 17315(SUPPLIES) | | |
| AP Trx #: 10775 | | | | | |
| | | OPERATING SUPPLIES | 01-53-4302 | 39.45 | |
| | | Vnd: 0165 Invoice: 45095 | 01-00-2200 | | 39.45 |
| | | Expected Check Run: 10/07/2020 | | 39.45 | 39.45 |
| 09/25/2020 | AP | MENARDS | Invoice: 45002 Ref#: 17316(NWWTP SUPPLIES DECANTER) | | |
| AP Trx #: 10776 | | | | | |
| | | NWWTP SUPPLIES DECANTER | 31-77-4301 | 21.15 | |
| | | Vnd: 0165 Invoice: 45002 | 31-00-2200 | | 21.15 |
| | | Expected Check Run: 10/07/2020 | | 21.15 | 21.15 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/25/2020 | AP | MENARDS | Invoice: 43287 Ref#: 17317(PUSH MOWER & SHOP SUPPLIES) | | |
| AP Trx #: 10777 | | | | | |
| | | PUSH MOWER AND SHOP SUPPLIES | 01-53-4302 | 502.61 | |
| | | Vnd: 0165 Invoice: 43287 | 01-00-2200 | | 502.61 |
| | | Expected Check Run: 10/07/2020 | | 502.61 | 502.61 |
| 09/30/2020 | AP | MENARDS | Invoice: 46409 Ref#: 17353(MISC SUPPLIES) | | |
| AP Trx #: 10778 | | | | | |
| | | OPERATING SUPPLIES | 31-75-4302 | 273.02 | |
| | | Vnd: 0165 Invoice: 46409 | 31-00-2200 | | 273.02 |
| | | Expected Check Run: 10/07/2020 | | 273.02 | 273.02 |
| 09/30/2020 | AP | MICROSOFT CORPORATION | Invoice: E0300BYQDM Ref#: 17394(ONLINE SERVICES -EMAIL) | | |
| AP Trx #: 10779 | | | | | |
| | | ONLINE SERVICES EMAIL | 01-50-4214 | 36.00 | |
| | | Vnd: 0410 Invoice: E0300BYQDM | 01-00-2200 | | 36.00 |
| | | Expected Check Run: 10/07/2020 | | 36.00 | 36.00 |
| 09/30/2020 | AP | MICROSOFT CORPORATION | Invoice: E0300BYQDL Ref#: 17395(ONLINE SERVICES MS OFFICE) | | |
| AP Trx #: 10780 | | | | | |
| | | ONLINE SERVICES MS OFFICE | 01-50-4214 | 159.38 | |
| | | Vnd: 0410 Invoice: E0300BYQDL | 01-00-2200 | | 159.38 |
| | | Expected Check Run: 10/07/2020 | | 159.38 | 159.38 |
| 09/25/2020 | AP | MR. GOODWATER | Invoice: 527025 Ref#: 17311(4 5 GALLON WATER + DEPOSIT) | | |
| AP Trx #: 10781 | | | | | |
| | | 4 5 GALLON WATER + DEPOSIT | 01-50-4302 | 31.76 | |
| | | Vnd: 0329 Invoice: 527025 | 01-00-2200 | | 31.76 |
| | | Expected Check Run: 10/07/2020 | | 31.76 | 31.76 |
| 09/30/2020 | AP | MR. GOODWATER | Invoice: 527819 Ref#: 17371(COOLER RENTAL/DRINKING WATER) | | |
| AP Trx #: 10782 | | | | | |
| | | COOLER RENTAL/DRINKING WATER@VH | 01-50-4302 | 12.88 | |
| | | Vnd: 0329 Invoice: 527819 | 01-00-2200 | | 12.88 |
| | | Expected Check Run: 10/07/2020 | | 12.88 | 12.88 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 10/06/2020 | AP | MR. GOODWATER | Invoice: 529728 Ref#: 17372(COOLER RENTAL/DRINKING WATER) | | |
| AP Trx #: 10783 | | COOLER RENTAL/DRINKING WATER@VH | 01-50-4302 | 8.00 | |
| | | Vnd: 0329 Invoice: 529728 | 01-00-2200 | | 8.00 |
| | | Expected Check Run: 10/21/2020 | | 8.00 | 8.00 |
| 10/06/2020 | AP | MR. GOODWATER | Invoice: 529729 Ref#: 17373(COOLER RENTAL/DRINKING WATER) | | |
| AP Trx #: 10784 | | COOLER RENTAL @WWTP | 31-75-4302 | 8.00 | |
| | | Vnd: 0329 Invoice: 529729 | 31-00-2200 | | 8.00 |
| | | Expected Check Run: 10/21/2020 | | 8.00 | 8.00 |
| 09/25/2020 | AP | NAPA AUTO PARTS | Invoice: 310242 Ref#: 17318(EQUIPMENT SERVICE) | | |
| AP Trx #: 10785 | | EQUIPMENT MAINTENANCE | 01-53-4227 | 369.87 | |
| | | Vnd: 0053 Invoice: 310242 | 01-00-2200 | | 369.87 |
| | | Expected Check Run: 10/07/2020 | | 369.87 | 369.87 |
| 09/25/2020 | AP | NAPA AUTO PARTS | Invoice: 310110 Ref#: 17319(OIL AND OIL FILTER, EP GREASE) | | |
| AP Trx #: 10786 | | EQUIPMENT MAINTENANCE | 01-53-4227 | 134.96 | |
| | | Vnd: 0053 Invoice: 310110 | 01-00-2200 | | 134.96 |
| | | Expected Check Run: 10/07/2020 | | 134.96 | 134.96 |
| 10/06/2020 | AP | NAPA AUTO PARTS | Invoice: 311686 Ref#: 17375(CLIPS 05 DOOR) | | |
| AP Trx #: 10787 | | VEHCLE MAINTENANCE CLIP 05 DOOR | 01-53-4226 | 11.98 | |
| | | Vnd: 0053 Invoice: 311686 | 01-00-2200 | | 11.98 |
| | | Expected Check Run: 10/21/2020 | | 11.98 | 11.98 |
| 10/06/2020 | AP | NAPA AUTO PARTS | Invoice: 311607 Ref#: 17376(SUPPLIES SERVICE DUMP TRUCKS) | | |
| AP Trx #: 10788 | | VEHCLE MAINTENANCE SERVICE DUMP TRUCKS | 01-53-4226 | 126.51 | |
| | | SHOP SUPPLIES | 01-53-4302 | 314.27 | |
| | | Vnd: 0053 Invoice: 311607 | 01-00-2200 | | 440.78 |
| | | Expected Check Run: 10/21/2020 | | 440.78 | 440.78 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/28/2020 | AP | NICOR GAS | Invoice: 12314476859SEPT20 Ref#: 17321(4194 DAWSON LK RD L/S) | | |
| AP Trx #: 10789 | | | | | |
| | | 4194 DAWSON LK RD L/S | 31-75-4204 | 39.13 | |
| | | Vnd: 0186 Invoice: 12314476859SEPT20 | 31-00-2200 | | 39.13 |
| | | Expected Check Run: 10/07/2020 | | 39.13 | 39.13 |
| 09/28/2020 | AP | NICOR GAS | Invoice: 17034425508 SEPT20 Ref#: 17322(13505 HARVEST WAY L/S) | | |
| AP Trx #: 10790 | | | | | |
| | | 13505 HARVEST WAY L/S | 31-75-4204 | 122.91 | |
| | | Vnd: 0186 Invoice: 17034425508 SEPT20 | 31-00-2200 | | 122.91 |
| | | Expected Check Run: 10/07/2020 | | 122.91 | 122.91 |
| 09/28/2020 | AP | NICOR GAS | Invoice: 22409207747SEPT20 Ref#: 17323(12211 RT76 SWWTP) | | |
| AP Trx #: 10791 | | | | | |
| | | 12211 RT76 SWWTP | 31-79-4204 | 122.27 | |
| | | Vnd: 0186 Invoice: 22409207747SEPT20 | 31-00-2200 | | 122.27 |
| | | Expected Check Run: 10/07/2020 | | 122.27 | 122.27 |
| 09/28/2020 | AP | NICOR GAS | Invoice: 22898582741 Ref#: 17324(203 BEAVER DR. L/S) | | |
| AP Trx #: 10792 | | | | | |
| | | 203 BEAVER DR. L/S | 31-75-4204 | 39.69 | |
| | | Vnd: 0186 Invoice: 22898582741 | 31-00-2200 | | 39.69 |
| | | Expected Check Run: 10/07/2020 | | 39.69 | 39.69 |
| 09/28/2020 | AP | NICOR GAS | Invoice: 30139401027SEPT20 Ref#: 17325(4420 MENGE LN W#4) | | |
| AP Trx #: 10793 | | | | | |
| | | 4420 MENGE LN W#4 | 31-68-4204 | 38.69 | |
| | | Vnd: 0186 Invoice: 30139401027SEPT20 | 31-00-2200 | | 38.69 |
| | | Expected Check Run: 10/07/2020 | | 38.69 | 38.69 |
| 09/28/2020 | AP | NICOR GAS | Invoice: 31857320001SEPT20 Ref#: 17326(100 S STATE ST. W#2) | | |
| AP Trx #: 10794 | | | | | |
| | | 100 S STATE ST. W#2 | 31-68-4204 | 40.04 | |
| | | Vnd: 0186 Invoice: 31857320001SEPT20 | 31-00-2200 | | 40.04 |
| | | Expected Check Run: 10/07/2020 | | 40.04 | 40.04 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/28/2020 | AP | NICOR GAS | Invoice: 72878472371SEPT20 Ref#: 17327(610 S STATE ST. NWWTP) | | |
| AP Trx #: 10795 | | | | | |
| | | 610 S STATE ST. NWWTP | 31-77-4204 | 39.15 | |
| | | Vnd: 0186 Invoice: 72878472371SEPT20 | 31-00-2200 | | 39.15 |
| | | Expected Check Run: 10/07/2020 | | 39.15 | 39.15 |
| 09/30/2020 | AP | NICOR GAS | Invoice: 24868703307SEPT20 Ref#: 17359(1001 WACO WAY C/L/S) | | |
| AP Trx #: 10796 | | | | | |
| | | 1001 WACO WAY C/L/S | 31-75-4204 | 41.11 | |
| | | Vnd: 0186 Invoice: 24868703307SEPT20 | 31-00-2200 | | 41.11 |
| | | Expected Check Run: 10/07/2020 | | 41.11 | 41.11 |
| 09/30/2020 | AP | NICOR GAS | Invoice: 77254215526SEPT20 Ref#: 17360(287 PRAIRIE KNOLL L/S) | | |
| AP Trx #: 10797 | | | | | |
| | | 287 PRAIRIE KNOLL L/S | 31-75-4204 | 39.60 | |
| | | Vnd: 0186 Invoice: 77254215526SEPT20 | 31-00-2200 | | 39.60 |
| | | Expected Check Run: 10/07/2020 | | 39.60 | 39.60 |
| 09/30/2020 | AP | NICOR GAS | Invoice: 07465530330SEPT20 Ref#: 17361(4870 WOODSTOCK RD W#5&6) | | |
| AP Trx #: 10798 | | | | | |
| | | 4870 WOODSTOCK RD W#5&6 | 31-68-4204 | 38.60 | |
| | | Vnd: 0186 Invoice: 07465530330SEPT20 | 31-00-2200 | | 38.60 |
| | | Expected Check Run: 10/07/2020 | | 38.60 | 38.60 |
| 09/30/2020 | AP | NICOR GAS | Invoice: 94988910009SEPT20 Ref#: 17362(211 W GROVE RT 173 W#3) | | |
| AP Trx #: 10799 | | | | | |
| | | 211 W GROVE RT 173 W#3 | 31-68-4204 | 38.63 | |
| | | Vnd: 0186 Invoice: 94988910009SEPT20 | 31-00-2200 | | 38.63 |
| | | Expected Check Run: 10/07/2020 | | 38.63 | 38.63 |
| 09/30/2020 | AP | PHYSICIANS IMMEDIATE CARE | Invoice: 092420 Ref#: 17399(TESTING OF 4 EMPLOYEES) | | |
| AP Trx #: 10800 | | | | | |
| | | TESTING OF 4 EMPLOYEES | 01-50-4500 | 240.00 | |
| | | Vnd: 0212 Invoice: 092420 | 01-00-2200 | | 240.00 |
| | | Expected Check Run: 10/07/2020 | | 240.00 | 240.00 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/28/2020 | AP | R.J. DANIELS FUEL & TIRE | Invoice: 323738 Ref#: 17328(TURF MOWER TIRE FINISH MOWER) | | |
| AP Trx #: 10801 | | TURF MOWER TIRE FINISH MOWER | 01-53-4227 | 113.99 | |
| | | Vnd: 0225 Invoice: 323738 | 01-00-2200 | | 113.99 |
| | | Expected Check Run: 10/07/2020 | | 113.99 | 113.99 |
| 09/30/2020 | AP | R.J. DANIELS FUEL & TIRE | Invoice: 324213 Ref#: 17377(TURF MOWER TIRE) | | |
| AP Trx #: 10802 | | TURF MOWER TIRE | 01-53-4227 | 65.99 | |
| | | Vnd: 0225 Invoice: 324213 | 01-00-2200 | | 65.99 |
| | | Expected Check Run: 10/07/2020 | | 65.99 | 65.99 |
| 09/28/2020 | AP | S&H NURSERY | Invoice: 1667 Ref#: 17329(PLAYGROUND MULCH SHERMAN PARK) | | |
| AP Trx #: 10803 | | PLAYGROUND MULCH SHERMAN PARK | 01-52-4225 | 695.00 | |
| | | Vnd: 0512 Invoice: 1667 | 01-00-2200 | | 695.00 |
| | | Expected Check Run: 10/07/2020 | | 695.00 | 695.00 |
| 09/30/2020 | AP | SELECTCHICAGO FDI CONFERENCE 2020 | Invoice: 1449351085 Ref#: 17396(2 TICKETS VIRTUAL CONFERENCE) | | |
| AP Trx #: 10804 | | SELECTCHICAGO VIRTUAL CONFERENCE | 01-50-4207 | 150.00 | |
| | | Vnd: MISC Invoice: 1449351085 | 01-00-2200 | | 150.00 |
| | | Expected Check Run: 10/07/2020 | | 150.00 | 150.00 |
| 09/28/2020 | AP | SHERMAN WILLIAMS CO. | Invoice: 5958-3 Ref#: 17330(SPRAYER PARTS) | | |
| AP Trx #: 10805 | | SPRAYER PARTS | 01-53-4227 | 25.97 | |
| | | Vnd: 0239 Invoice: 5958-3 | 01-00-2200 | | 25.97 |
| | | Expected Check Run: 10/07/2020 | | 25.97 | 25.97 |
| 09/30/2020 | AP | SHERMAN WILLIAMS CO. | Invoice: 4540-2 Ref#: 17378(PAINT SPRAYER REPAIR) | | |
| AP Trx #: 10806 | | PAINT SPRAYER REPAIR | 01-53-4227 | 45.05 | |
| | | Vnd: 0239 Invoice: 4540-2 | 01-00-2200 | | 45.05 |
| | | Expected Check Run: 10/07/2020 | | 45.05 | 45.05 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 09/30/2020 | AP | SHERMAN WILLIAMS CO. | Invoice: 4542-8 Ref#: 17379(PAINT SPRAYER REPAIR) | | |
| AP Trx #: 10807 | | PAINT SPRAYER REPAIR | 01-53-4227 | 10.00 | |
| | | Vnd: 0239 Invoice: 4542-8 | 01-00-2200 | | 10.00 |
| | | Expected Check Run: 10/07/2020 | | 10.00 | 10.00 |
| 09/30/2020 | AP | SOSNOWSKI SZETO, LLP | Invoice: 6227 Ref#: 17384(LEGAL SERVICES GENERAL) | | |
| AP Trx #: 10808 | | LEGAL SERVICES GENERAL | 01-50-4213 | 6,747.00 | |
| | | Vnd: 0319 Invoice: 6227 | 01-00-2200 | | 6,747.00 |
| | | Expected Check Run: 10/07/2020 | | 6,747.00 | 6,747.00 |
| 09/30/2020 | AP | SOSNOWSKI SZETO, LLP | Invoice: 6228 Ref#: 17385(LEGAL SERVICES LABOR) | | |
| AP Trx #: 10809 | | LEGAL SERVICES LABOR | 01-50-4213 | 2,907.00 | |
| | | Vnd: 0319 Invoice: 6228 | 01-00-2200 | | 2,907.00 |
| | | Expected Check Run: 10/07/2020 | | 2,907.00 | 2,907.00 |
| 09/30/2020 | AP | SOSNOWSKI SZETO, LLP | Invoice: 6230 Ref#: 17386(LEGAL SERVICES VILLAGE CLERK) | | |
| AP Trx #: 10810 | | LEGAL SERVICES VILLAGE CLERK | 01-57-4213 | 570.00 | |
| | | Vnd: 0319 Invoice: 6230 | 01-00-2200 | | 570.00 |
| | | Expected Check Run: 10/07/2020 | | 570.00 | 570.00 |
| 09/30/2020 | AP | SOSNOWSKI SZETO, LLP | Invoice: 6231 Ref#: 17387(LEGAL SERVICES STABLIZATION GRANT) | | |
| AP Trx #: 10811 | | LEGAL SERVICES STABLIZATION GRANT | 01-50-4213 | 79.50 | |
| | | Vnd: 0319 Invoice: 6231 | 01-00-2200 | | 79.50 |
| | | Expected Check Run: 10/07/2020 | | 79.50 | 79.50 |
| 09/30/2020 | AP | SOSNOWSKI SZETO, LLP | Invoice: 6232 Ref#: 17388(LEGAL SERVICES 201 N. STATE STREET) | | |
| AP Trx #: 10812 | | LEGAL SERVICES 201 N. STATE STREET | 01-55-4213 | 108.70 | |
| | | Vnd: 0319 Invoice: 6232 | 01-00-2200 | | 108.70 |
| | | Expected Check Run: 10/07/2020 | | 108.70 | 108.70 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 10/06/2020 | AP | SUBLETTE MECHANICAL, INC. | Invoice: 31823 Ref#: 17380(3 CYLINDERS FOR PLOW) | | |
| AP Trx #: 10813 | | 3 CYLINDERS FOR PLOW | 01-53-4229 | 1,224.90 | |
| | | Vnd: 0534 Invoice: 31823 | 01-00-2200 | | 1,224.90 |
| | | Expected Check Run: 10/07/2020 | | 1,224.90 | 1,224.90 |
| 09/30/2020 | AP | SURVEY MONKEY | Invoice: 082820 Ref#: 17393(ADVANTAGE RENEWAL) | | |
| AP Trx #: 10814 | | SURVEY MONKEY RENEWAL | 01-50-4214 | 384.00 | |
| | | Vnd: 0503 Invoice: 082820 | 01-00-2200 | | 384.00 |
| | | Expected Check Run: 10/07/2020 | | 384.00 | 384.00 |
| 09/28/2020 | AP | TEST INC. | Invoice: 200900198 Ref#: 17331(IL0070300-SOUTH W#5&6 IEPA TESTING) | | |
| AP Trx #: 10815 | | SOUTH W#5&6 IEPA TESTING | 31-68-4310 | 15.50 | |
| | | Vnd: 0355 Invoice: 200900198 | 31-00-2200 | | 15.50 |
| | | Expected Check Run: 10/07/2020 | | 15.50 | 15.50 |
| 09/28/2020 | AP | TEST INC. | Invoice: 200900200 Ref#: 17332(IL0070350 WEST W#4 IEPA TESTING) | | |
| AP Trx #: 10816 | | WEST W#4 IEPA TESTING | 31-68-4310 | 15.50 | |
| | | Vnd: 0355 Invoice: 200900200 | 31-00-2200 | | 15.50 |
| | | Expected Check Run: 10/07/2020 | | 15.50 | 15.50 |
| 09/28/2020 | AP | TEST INC. | Invoice: 200900201 Ref#: 17333(IL0070150 NORTH W#3 IEPA TESTING) | | |
| AP Trx #: 10817 | | NORTH W#3 IEPA TESTING | 31-68-4310 | 15.50 | |
| | | Vnd: 0355 Invoice: 200900201 | 31-00-2200 | | 15.50 |
| | | Expected Check Run: 10/07/2020 | | 15.50 | 15.50 |
| 10/06/2020 | AP | TEST INC. | Invoice: 200900978 Ref#: 17381(IL0070150 NORTH W#3 IEPA TESTING) | | |
| AP Trx #: 10818 | | NORTH W#3 IEPA TESTING | 31-68-4310 | 72.00 | |
| | | Vnd: 0355 Invoice: 200900978 | 31-00-2200 | | 72.00 |
| | | Expected Check Run: 10/21/2020 | | 72.00 | 72.00 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| 10/06/2020 | AP | TEST INC. | Invoice: 200900976 Ref#: 17382(IL0070300-SOUTH W#5&6 IEPA TESTING) | | |
| AP Trx #: 10819 | | SOUTH W#5&6 IEPA TESTING | 31-68-4310 | 72.00 | |
| | | Vnd: 0355 Invoice: 200900976 | 31-00-2200 | | 72.00 |
| | | Expected Check Run: 10/21/2020 | | 72.00 | 72.00 |
| 10/06/2020 | AP | TEST INC. | Invoice: 200900977 Ref#: 17383(IL0070350 WEST W#1 IEPA TESTING) | | |
| AP Trx #: 10820 | | WEST W#1 IEPA TESTING | 31-68-4310 | 36.00 | |
| | | Vnd: 0355 Invoice: 200900977 | 31-00-2200 | | 36.00 |
| | | Expected Check Run: 10/21/2020 | | 36.00 | 36.00 |
| 09/30/2020 | AP | THE HENRY P THOMPSON COMPANY | Invoice: 7893B5600 Ref#: 17374(COLLECTION POINT CONTROLLER) | | |
| AP Trx #: 10821 | | COLLECTION POINT CONTROLLER | 31-75-4301 | 2,160.86 | |
| | | Vnd: 0533 Invoice: 7893B5600 | 31-00-2200 | | 2,160.86 |
| | | Expected Check Run: 10/21/2020 | | 2,160.86 | 2,160.86 |
| 09/28/2020 | AP | TWIN TOWERS INC. | Invoice: 24672 Ref#: 17334(NAME PLATES FOR TRUSTEES) | | |
| AP Trx #: 10822 | | OFFICE SUPPLIES | 01-50-4300 | 18.00 | |
| | | Vnd: 0259 Invoice: 24672 | 01-00-2200 | | 18.00 |
| | | Expected Check Run: 10/07/2020 | | 18.00 | 18.00 |
| 09/30/2020 | AP | U.S. CELLULAR | Invoice: 0396786724 Ref#: 17392(PW,WWTP,CLERK PHONE,TABLET&HOTSPOT 2020 | | |
| AP Trx #: 10823 | | PWD CELL PHONE 2020 | 01-53-4202 | 36.19 | |
| | | VPG CLERK CELL PHONE 2020 | 01-57-4202 | 36.19 | |
| | | HOT SPOT / TABLET W&S READS 2020 | 31-50-4202 | 57.18 | |
| | | WWTP CELL PHONE 2020 | 31-50-4202 | 49.38 | |
| | | Vnd: 0261 Invoice: 0396786724 | 01-00-2200 | | 72.38 |
| | | Vnd: 0261 Invoice: 0396786724 | 31-00-2200 | | 106.56 |
| | | Expected Check Run: 10/07/2020 | | 178.94 | 178.94 |
| 09/25/2020 | AP | WEX BANK - MARATHON FLEET CARD | Invoice: 67544635 Ref#: 17313(PW FUEL SEPT 20) | | |
| AP Trx #: 10824 | | PUBLIC WORKS FUEL | 01-53-4303 | 702.89 | |
| | | Vnd: 0429 Invoice: 67544635 | 01-00-2200 | | 702.89 |
| | | Expected Check Run: 10/07/2020 | | 702.89 | 702.89 |
| | | | | 162,894.24 | 162,894.24 |

| Post Date | Journal | Description | GL Number | DR Amount | CR Amount |
|---|---|---|---|---|---|
| Cash/Payable Account Totals: | | | | | |
| | | ACCOUNTS PAYABLE | 01-00-2200 | | 56,614.07 |
| | | MFT ACCOUNTS PAYABLE | 20-00-2200 | | 1,059.72 |
| | | ACCOUNTS PAYABLE | 31-00-2200 | | 85,365.85 |
| | | ACCOUNTS PAYABLE | 90-00-2200 | | 19,854.60 |
| | | | TOTAL INCREASE IN PAYABLE: | | 162,894.24 |

# Comparative Balance Sheet

Period Ending 09/30/2020



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| DEPT/ACCOUNT | DESCRIPTION | FUND 01 GENERAL FUND | FUND 20 MOTOR FUEL FUND | FUND 31 WATER & SEWER FUN | FUND 32 DEBT SERVICE FUND | FUND 90 GOV FUNDS CAPITAL | Total |
|---|---|---|---|---|---|---|---|
| **ASSETS** | | | | | | | |
| 00-1010 | PETTY CASH | 203 | | | | | 203 |
| 00-1020 | CASH IN BANK | (565,508) | 209,869 | 542,972 | 195,640 | 588,107 | 971,080 |
| 00-1021 | CASH IN BANK MONEY MARKET | 954,232 | | | | | 954,232 |
| 00-1022 | CASH IN BANK - BYRON BANK | | | 4,975 | | | 4,975 |
| 00-1030 | MONEY MARKET | 25,361 | | | 27,546 | | 52,907 |
| 00-1040 | MFT MONEY MARKET | | 117,675 | | | | 117,675 |
| 00-1070 | CASH WITH PAYING AGENT | | | 559,535 | | | 559,535 |
| 00-1075 | ILLINOIS FUNDS INVESTMENT ACCT. | 1,632,171 | | | | | 1,632,171 |
| 00-1100 | PROPERTY TAXES RECEIVABLE | 279,381 | | | | | 279,381 |
| 00-1400 | ACCOUNTS RECEIVABLE - OTHER | 4,476 | | 3,295 | | | 7,771 |
| 00-1401 | ACCOUNTS RECEIVABLE | | | 183,370 | | | 183,370 |
| 00-1500 | PREPAID ITEMS | 18,899 | | | | | 18,899 |
| 00-1605 | VEHICLES | | | 42,017 | | | 42,017 |
| 00-1610 | VILLAGE WATER SYSTEM | | | 13,349,804 | | | 13,349,804 |
| 00-1620 | WATER/SEWER UITLITY SYSTEM | | | 8,063,260 | | | 8,063,260 |
| 00-1630 | STREETS | | | 66,551 | | | 66,551 |
| 00-1705 | ACCUMULATED DEPRECIATION - VEHICL | | | (12,659) | | | (12,659) |
| 00-1710 | ACCUM DEP-VILLAGE NORTH WATER SY | | | (1,202,642) | | | (1,202,642) |
| 00-1711 | ACCUM DEP-VILLAGE SOUTH WATER SY | | | (3,270,628) | | | (3,270,628) |
| 00-1720 | ACCUMULATED DEPRECIATION - WATER/ | | | (5,510,133) | | | (5,510,133) |
| 00-1730 | ACCUM DEP-STREET | | | (24,124) | | | (24,124) |
| 00-1850 | DEFERRED OUTFLOW | | | 14,200 | | | 14,200 |
| 00-1900 | UNAMORTIZED LOSS ON REFUNDING | | | 66,459 | | | 66,459 |
| **TOTAL ASSETS** | | 2,349,215 | 327,544 | 12,876,252 | 223,186 | 588,107 | 16,364,304 |
| **LIABILITIES** | | | | | | | |
| 00-1330 | ESCROW HAWTHORN MEADOWS PROF SERV | 6,378 | | | | | 6,378 |
| 00-2100 | UNAVAILABLE PROPERTY TAXES | 279,381 | | | | | 279,381 |
| 00-2200 | ACCOUNTS PAYABLE | 54,781 | 1,060 | 85,018 | | 19,855 | 160,714 |
| 00-2201 | COMPENSATED ABSENCES - CURRENT PO | | | 7,110 | | | 7,110 |
| 00-2203 | BONDS PAYABLE 2012A - CURRENT POR | | | 25,000 | | | 25,000 |
| 00-2204 | BONDS PAYABLE 2012B - CURRENT POR | | | 130,000 | | | 130,000 |
| 00-2205 | BONDS PAYABLE 2015 - CURRENT PORT | | | 335,000 | | | 335,000 |
| 00-2230 | DUE TO AIRPORT - BEL AIR | | | 23,500 | | | 23,500 |
| 00-2240 | ACCRUED INTEREST PAYABLE | | | 69,535 | | | 69,535 |
| 00-2303 | BONDS PAYABLE 2012A - LONG-TERM P | | | 85,000 | | | 85,000 |
| 00-2304 | BONDS PAYABLE 2012B - LONG-TERM P | | | 1,035,000 | | | 1,035,000 |
| 00-2305 | BONDS PAYABLE 2015 - LONG-TERM PO | | | 2,680,000 | | | 2,680,000 |
| 00-2340 | HEALTH INSURANCE DEDUCTIONS PAYAB | (3,478) | | | | | (3,478) |
| 00-2360 | UNION DUES/NCPRS PAYABLE | 96 | | | | | 96 |
| 00-2370 | SUI PAYABLE | 337 | | | | | 337 |
| 00-2400 | OTHER DEFERRED REVENUE | 19,741 | | | | | 19,741 |
| 00-2410 | CUSTOMER DEPOSITS HELD | 1,900 | | | | | 1,900 |
| 00-2650 | NET PENSION LIABILITY | | | 22,832 | | | 22,832 |
| 00-2660 | DEFERRED INFLOWS | | | 7,223 | | | 7,223 |
| 00-2690 | UNAMORTIZED BOND PREMIUM | | | 116,099 | | | 116,099 |
| **TOTAL LIABILITIES** | | 359,136 | 1,060 | 4,621,317 | | 19,855 | 5,001,368 |
| **FUND BALANCES** | | | | | | | |
| 00-3000 | FUND BALANCE | 1,926,996 | 399,148 | | 27,422 | 267,002 | 2,620,568 |
| 00-3001 | NET POSITION | | | 8,034,040 | | | 8,034,040 |
| **TOTAL FUND EQUITY** | | 1,926,996 | 399,148 | 8,034,040 | 27,422 | 267,002 | 10,[illegible]08 |

Period Ending 09/30/2020

| DEPT/ACCOUNT DESCRIPTION | FUND 01 GENERAL FUND | FUND 20 MOTOR FUEL FUND | FUND 31 WATER & SEWER FUN DEBT | FUND 32 SERVICE FUND GOV FUNDS | FUND 90 CAPITAL | Total |
|---|---|---|---|---|---|---|
| Beginning Fund Balance | | | | | | |
| Net of Revenues Vs Expenditures | (8,383) | (9,114) | 309,915 | 194,124 | 97,123 | |
| Ending Fund Balance | (8,383) | (9,114) | 309,915 | 194,124 | 97,123 | |
| Total Liabilities And Fund Balance | 2,277,749 | 391,094 | 12,965,272 | 221,546 | 383,980 | |

| DEPT/ACCOUNT | DESCRIPTION | FUND 01 GENERAL FUND | FUND 31 WATER & SEWER FU | FUND 20 MOTOR FUEL FUND | FUND 32 DEBT SERVICE FUN | FUND 90 GOV FUNDS CAPITA | Total |
|---|---|---|---|---|---|---|---|
| **REVENUES** | | | | | | | |
| 00-3010 | PROPERTY TAXES - CORPORATE | 215,105 | | | | | 215,105 |
| 00-3011 | PROPERTY TAXES - ROAD & BRIDGE | 78,824 | | | | | 78,824 |
| 00-3012 | PROPERTY TAXES - AUDIT | 14,446 | | | | | 14,446 |
| 00-3013 | PROPERTY TAXES - LIABILITY INSURA | 20,223 | | | | | 20,223 |
| 00-3014 | PROPERTY TAXES - SOCIAL SECURITY | 19,262 | | | | | 19,262 |
| 00-3100 | STATE INCOME TAXES | 238,513 | | | | | 238,513 |
| 00-3101 | STATE USE TAXES | 39,601 | | | | | 39,601 |
| 00-3102 | STATE TELECOMMUNICATIONS TAX | 9,783 | | | | | 9,783 |
| 00-3103 | STATE SALES TAXES | 45,280 | | | | | 45,280 |
| 00-3104 | STATE VIDEO GAMING TAX | 7,946 | | | | | 7,946 |
| 00-3105 | REPLACEMENT TAX | 1,184 | | | | | 1,184 |
| 00-3106 | STATE LOCAL SHARE OF CANNABIS USE | 658 | | | | | 658 |
| 00-3120 | MOTOR FUEL TAX | | | 65,061 | | | 65,061 |
| 00-3130 | LOCAL RDS & STS REBUILD IL | | | 110,345 | | | 110,345 |
| 00-3200 | MUNICIPAL UTILITY TAX - ELECTRICI | 51,727 | | | | | 51,727 |
| 00-3201 | MUNICIPAL UTILITY TAX - NATURAL G | 12,902 | | | | | 12,902 |
| 00-3300 | CODE VIOLATION FEES | 715 | | | | | 715 |
| 00-3301 | FILING FEES | 1,750 | | | | | 1,750 |
| 00-3400 | BUILDING PERMIT FEES | 32,483 | | | | | 32,483 |
| 00-3405 | TRUCK PERMITS | 125 | | | | | 125 |
| 00-3406 | LIQUOR LICENSES | (1,250) | | | | | (1,250) |
| 00-3500 | RENTS RECEIVED | 8,870 | | | | | 8,870 |
| 00-3600 | WATER & SEWER SALES | | 666,652 | | | | 666,652 |
| 00-3601 | WATER / SEWER PENALTIES | | (156) | | | | (156) |
| 00-3603 | BULK WATER SALES | | 171 | | | | 171 |
| 00-3604 | METER & MXU SALES | | 2,070 | | | | 2,070 |
| 00-3605 | TURN ON/OFF WATER FEES | | 245 | | | | 245 |
| 00-3800 | MISCELLANEOUS INCOME | 1,373 | 194 | | | | 1,567 |
| 00-3900 | INTEREST | 2,270 | 342 | 356 | 10 | 523 | 3,501 |
| 00-5010 | TRANSFERS IN - FROM GENERAL FUND | | | | 213,228 | 123,000 | 336,228 |
| **TOTAL REVENUES** | | 801,790 | 669,518 | 175,762 | 213,238 | 123,523 | 1,983,831 |
| **EXPENDITURES** | | | | | | | |
| 00-4232 | MFT ENGINEERING SERVICES | | | 7,749 | | | 7,749 |
| 00-4240 | PROFESSIONAL SERVICES | | | 765 | | | 765 |
| 00-4409 | ROAD CONSTRUCTION | | | 176,362 | | | 176,362 |
| 50-4000 | SALARIES | 58,743 | | | | | 58,743 |
| 50-4010 | SALARIES - OVERTIME | 100 | | | | | 100 |
| 50-4100 | SOCIAL SECURITY - EMPLOYER | 3,463 | | | | | 3,463 |
| 50-4101 | MEDICARE - EMPLOYER | 810 | | | | | 810 |
| 50-4103 | UNEMPLOYMENT COMPENSATION | 362 | | | | | 362 |
| 50-4104 | IMRF EMPLOYER | 2,900 | | | | | 2,900 |
| 50-4105 | LIFE INSURANCE - EMPLOYER | 208 | | | | | 208 |
| 50-4106 | HEALTH INSURANCE EXPENSE | 14,470 | | | | | 14,470 |
| 50-4200 | GENERAL INSURANCE EXPENSE | 29,773 | | | | | 29,773 |
| 50-4202 | TELEPHONE & INTERNET SERVICES | 4,292 | 2,112 | | | | 6,404 |
| 50-4203 | WEB SITE MAINTENANCE | 4,050 | | | | | 4,050 |
| 50-4205 | TRAVEL/MEALS/LODGING | 332 | | | | | 332 |
| 50-4206 | SECURITY SYSTEM | 981 | | | | | 981 |
| 50-4207 | TRAINING | 230 | | | | | 230 |
| 50-4208 | POSTAGE | 500 | | | | | 500 |
| 50-4209 | PUBLICATION COST | 639 | | | | | 639 |
| 50-4211 | AUDITING SERVICES | 16,500 | | | | | 00 |
| 50-4212 | ENGINEERING SERVICES | 10,329 | | | | | 29 |
| 50-4213 | LEGAL SERVICES | 38,978 | | | | | 78 |

| DEPT/ACCOUNT | DESCRIPTION | FUND 01 GENERAL FUND | FUND 31 WATER & SEWER FU | FUND 20 MOTOR FUEL FUND | FUND 32 DEBT SERVICE FUN | FUND 90 GOV FUNDS CAPITA | Total |
|---|---|---|---|---|---|---|---|
| **EXPENDITURES** | | | | | | | |
| 50-4214 | OFFICE SYSTEM SUPPORT | 12,509 | | | | | 12,509 |
| 50-4215 | CONTRACT INSPECTION SERVICES | 6,872 | | | | | 6,872 |
| 50-4216 | CONTRACT CODE ENFORCEMENT | 992 | | | | | 992 |
| 50-4217 | PROFESSIONAL DUES | 370 | | | | | 370 |
| 50-4219 | CUSTODIAL SERVICES | 961 | | | | | 961 |
| 50-4223 | IT SERVICES | 2,129 | | | | | 2,129 |
| 50-4237 | PLANNING SERVICES | 740 | | | | | 740 |
| 50-4240 | PROFESSIONAL SERVICES | 570 | | | | | 570 |
| 50-4300 | OFFICE SUPPLIES | 487 | | | | | 487 |
| 50-4301 | MAINTENANCE SUPPLIES | 689 | | | | | 689 |
| 50-4302 | OPERATING SUPPLIES | 321 | | | | | 321 |
| 50-4400 | CAPITAL OUTLAY - VILLAGE HALL EQU | 306 | | | | | 306 |
| 50-4412 | CIP GENERAL ADMINISTRATION | | | | | (21,864) | (21,864) |
| 50-4500 | MISCELLANEOUS EXPENSE | 454 | | | | | 454 |
| 50-4811 | INTEREST EXPENSE 2015B | | | | 19,114 | | 19,114 |
| 50-4813 | INTEREST - SERIES 2012A | | 1,573 | | | | 1,573 |
| 50-4814 | INTEREST - SERIES 2012B | | 15,688 | | | | 15,688 |
| 50-4815 | INTEREST - SERIES 2015 | | 45,163 | | | | 45,163 |
| 50-4970 | SIMERL LAND REPAYMENT | 12,916 | | | | | 12,916 |
| 52-4000 | SALARIES | 23,269 | | | | | 23,269 |
| 52-4010 | SALARIES - OVERTIME | 262 | | | | | 262 |
| 52-4100 | SOCIAL SECURITY - EMPLOYER | 1,356 | | | | | 1,356 |
| 52-4101 | MEDICARE - EMPLOYER | 317 | | | | | 317 |
| 52-4103 | UNEMPLOYMENT COMPENSATION | 174 | | | | | 174 |
| 52-4104 | IMRF EMPLOYER | 1,249 | | | | | 1,249 |
| 52-4105 | LIFE INSURANCE - EMPLOYER | 80 | | | | | 80 |
| 52-4106 | HEALTH INSURANCE | 8,720 | | | | | 8,720 |
| 52-4225 | LANDSCAPING PARKS | 3,437 | | | | | 3,437 |
| 52-4304 | MAINTENANCE SUPPLIES | 1,730 | | | | | 1,730 |
| 52-4440 | PARKS EQUIPMENT | 3,080 | | | | | 3,080 |
| 53-4000 | SALARIES | 20,722 | | | | | 20,722 |
| 53-4010 | SALARIES - OVERTIME | 262 | | | | | 262 |
| 53-4100 | SOCIAL SECURITY - EMPLOYER | 1,198 | | | | | 1,198 |
| 53-4101 | MEDICARE - EMPLOYER | 280 | | | | | 280 |
| 53-4104 | IMRF - EMPLOYER | 1,249 | | | | | 1,249 |
| 53-4105 | LIFE INSURANCE - EMPLOYER | 80 | | | | | 80 |
| 53-4106 | HEALTH INSURANCE | 8,734 | | | | | 8,734 |
| 53-4107 | UNIFORM CLEANING SERVICES | 509 | | | | | 509 |
| 53-4202 | TELEPHONE & INTERNET SERVICES | 870 | | | | | 870 |
| 53-4205 | TRAVEL/MEALS/LODGING | 51 | | | | | 51 |
| 53-4226 | VEHCLE MAINTENANCE | 2,652 | | | | | 2,652 |
| 53-4227 | EQUIPMENT MAINTENANCE | 3,157 | | | | | 3,157 |
| 53-4228 | MAINTENANCE | 4,343 | | | | | 4,343 |
| 53-4229 | SNOW PLOW MAINTENANCE | 354 | | | | | 354 |
| 53-4230 | STREET LIGHTING SERVICES | 16,627 | | | | | 16,627 |
| 53-4232 | ENGINEERING SERVICES | 249 | | | | | 249 |
| 53-4240 | PROFESSIONAL SERVICES | 8,029 | | | | | 8,029 |
| 53-4301 | MAINTENANCE SUPPLIES | 542 | | | | | 542 |
| 53-4302 | OPERATING SUPPLIES | 1,334 | | | | | 1,334 |
| 53-4303 | GASOLINE AND OIL | 5,297 | | | | | 5,297 |
| 53-4407 | CAPITAL OUTLAY - VEHICLES & EQUIP | 35,644 | | | | | 35,644 |
| 53-4409 | CAPITAL OUTLAY - ROAD CONSTRUCTIO | 21,267 | | | | | 21,267 |
| 53-4460 | CIP STREETS ADMINISTRATION | | | | | 43,688 | 43,688 |
| 53-4462 | CIP STREETS MAINTENANCE | | | | | 4,576 | 4,576 |
| 53-4811 | INTEREST EXPENSE | 4,841 | | | | | 4,841 |
| 55-4209 | PUBLICATION COST | 229 | | | | | 229 |

| DEPT/ACCOUNT | DESCRIPTION | FUND 01 GENERAL FUND | FUND 31 WATER & SEWER FU | FUND 20 MOTOR FUEL FUND | FUND 32 DEBT SERVICE FUN | FUND 90 GOV FUNDS CAPITA | Total |
|---|---|---|---|---|---|---|---|
| **EXPENDITURES** | | | | | | | |
| 55-4212 | ENGINEERING | 2,487 | | | | | 2,487 |
| 55-4213 | LEGAL | 221 | | | | | 221 |
| 55-4215 | CONTRACT INSPECTION SERVICES | 18,234 | | | | | 18,234 |
| 55-4216 | CONTRACT CODE ENFORCEMENT | 5,260 | | | | | 5,260 |
| 55-4237 | PLANNING SERVICES | 5,000 | | | | | 5,000 |
| 55-4240 | PROFESSIONAL SERVICES | 14,943 | | | | | 14,943 |
| 55-4302 | OPERATING SUPPLIES | 1,036 | | | | | 1,036 |
| 57-4000 | SALARIES | 6,592 | | | | | 6,592 |
| 57-4010 | SALARIES - OVERTIME | 10 | | | | | 10 |
| 57-4100 | SOCIAL SECURITY - EMPLOYER | 387 | | | | | 387 |
| 57-4101 | MEDICARE - EMPLOYER | 91 | | | | | 91 |
| 57-4103 | UNEMPLOYMENT COMPENSATION | 81 | | | | | 81 |
| 57-4104 | IMRF EMPLOYER | 113 | | | | | 113 |
| 57-4105 | LIFE INSURANCE - EMPLOYER | 16 | | | | | 16 |
| 57-4106 | HEALTH INSURANCE | 1,565 | | | | | 1,565 |
| 57-4202 | TELEPHONE & INTERNET SERVICES | 265 | | | | | 265 |
| 57-4205 | TRAVEL/MEALS/LODGING | 32 | | | | | 32 |
| 57-4207 | TRAINING | 25 | | | | | 25 |
| 57-4213 | LEGAL | 690 | | | | | 690 |
| 57-4214 | OFFICE SYSTEM SUPPORT | 3,591 | | | | | 3,591 |
| 57-4217 | DUES | 305 | | | | | 305 |
| 57-4218 | CODIFICATION | 1,638 | | | | | 1,638 |
| 57-4223 | IT SERVICES | 1,194 | | | | | 1,194 |
| 68-4202 | TELEPHONE & INTERNET SERVICES | | 1,125 | | | | 1,125 |
| 68-4204 | UTILITIES | | 23,055 | | | | 23,055 |
| 68-4236 | WATER &SEWER CONTRACT LABOR | | 20,926 | | | | 20,926 |
| 68-4301 | MAINTENANCE SUPPLIES | | 23 | | | | 23 |
| 68-4302 | OPERATING SUPPLIES | | 18 | | | | 18 |
| 68-4310 | IEPA REQUIRED TESTING | | 3,442 | | | | 3,442 |
| 70-4000 | SALARIES | | 20,724 | | | | 20,724 |
| 70-4010 | SALARIES - OVERTIME | | 261 | | | | 261 |
| 70-4100 | SOCIAL SECURITY - EMPLOYER | | 1,198 | | | | 1,198 |
| 70-4101 | MEDICARE - EMPLOYER | | 280 | | | | 280 |
| 70-4104 | IMRF EMPLOYER | | 1,249 | | | | 1,249 |
| 70-4105 | LIFE INSURANCE - EMPLOYER | | 80 | | | | 80 |
| 70-4106 | HEALTH INSURANCE | | 8,720 | | | | 8,720 |
| 70-4204 | UTILITIES | | (2,703) | | | | (2,703) |
| 70-4208 | POSTAGE | | 1,750 | | | | 1,750 |
| 70-4240 | PROFESSIONAL SERVICES | | 1,618 | | | | 1,618 |
| 70-4301 | MAINTENANCE SUPPLIES | | 521 | | | | 521 |
| 70-4302 | OPERATING SUPPLIES | | 1,231 | | | | 1,231 |
| 70-4305 | UTILITY SYSTEM CHEMICALS | | 5,136 | | | | 5,136 |
| 70-4306 | METER & MXU PURCHASES | | 9,959 | | | | 9,959 |
| 75-4000 | SALARIES | | 20,721 | | | | 20,721 |
| 75-4010 | SALARIES - OVERTIME | | 261 | | | | 261 |
| 75-4100 | SOCIAL SECURITY - EMPLOYER | | 1,198 | | | | 1,198 |
| 75-4101 | MEDICARE - EMPLOYER | | 280 | | | | 280 |
| 75-4104 | IMRF EMPLOYER | | 1,248 | | | | 1,248 |
| 75-4105 | LIFE INSURANCE - EMPLOYER | | 80 | | | | 80 |
| 75-4106 | HEALTH INSURANCE | | 8,718 | | | | 8,718 |
| 75-4204 | UTILITIES | | (4,738) | | | | (4,738) |
| 75-4208 | POSTAGE | | 1,750 | | | | 1,750 |
| 75-4214 | OFFICE SYSTEM SUPPORT | | 495 | | | | 495 |
| 75-4236 | WATER &SEWER CONTRACT LABOR | | 12,556 | | | | 12,556 |
| 75-4240 | PROFESSIONAL SERVICES | | 12,799 | | | | 99 |
| 75-4301 | MAINTENANCE SUPPLIES | | 3,513 | | | | 13 |

| DEPT/ACCOUNT | DESCRIPTION | FUND 01 GENERAL FUND | FUND 31 WATER & SEWER FU | FUND 20 MOTOR FUEL FUND | FUND 32 DEBT SERVICE FUN | FUND 90 GOV FUNDS CAPITA | Total |
|---|---|---|---|---|---|---|---|
| **EXPENDITURES** | | | | | | | |
| 75-4302 | OPERATING SUPPLIES | | 2,215 | | | | 2,215 |
| 75-4930 | CAPITAL OUTLAY | | 2,500 | | | | 2,500 |
| 77-4202 | TELEPHONE & INTERNET SERVICES | | 1,136 | | | | 1,136 |
| 77-4204 | UTILITIES | | 16,991 | | | | 16,991 |
| 77-4236 | WATER &SEWER CONTRACT LABOR | | 25,112 | | | | 25,112 |
| 77-4240 | PROFESSIONAL SERVICES | | 800 | | | | 800 |
| 77-4301 | MAINTENANCE SUPPLIES | | 1,495 | | | | 1,495 |
| 77-4302 | OPERATING SUPPLIES | | 494 | | | | 494 |
| 77-4305 | UTILITY SYSTEM CHEMICALS | | 1,762 | | | | 1,762 |
| 77-4307 | NPDS PERMIT | | 7,500 | | | | 7,500 |
| 77-4310 | IEPA REQUIRED TESTING | | 268 | | | | 268 |
| 79-4202 | TELEPHONE & INTERNET SERVICES | | 446 | | | | 446 |
| 79-4204 | UTILITIES | | 30,162 | | | | 30,162 |
| 79-4236 | WATER &SEWER CONTRACT LABOR | | 25,112 | | | | 25,112 |
| 79-4301 | MAINTENANCE SUPPLIES | | 900 | | | | 900 |
| 79-4302 | OPERATING SUPPLIES | | 728 | | | | 728 |
| 79-4305 | UTILITY SYSTEM CHEMICALS | | 4,173 | | | | 4,173 |
| 79-4307 | NPDS PERMIT | | 15,000 | | | | 15,000 |
| 79-4310 | IEPA REQUIRED TESTING | | 779 | | | | 779 |
| 99-6032 | TRANSFER TO DEBT SERVICE | 213,227 | | | | | 213,227 |
| 99-6050 | TRANSFER TO GOV FUNDS CIP FUND | 123,000 | | | | | 123,000 |
| **TOTAL EXPENDITURES** | | 810,173 | 359,603 | 184,876 | 19,114 | 26,400 | 1,400,166 |
| NET OF REVENUES & EXPENDITURES | | (8,383) | 309,915 | (9,114) | 194,124 | 97,123 | |

TEST Inc.

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www.testinc.com

September 1, 2020

Village of Poplar Grove
Attn: President Costanza
200 Hill Street
Poplar Grove, IL 61065

Dear President Costanza:

As you know, it has almost been three years since we entered into our current contract agreement with the Village of Poplar Grove. We want to thank you for allowing TEST, Inc. to serve the Village of Poplar Grove at the Water and Wastewater Plants for the past year. Currently, our agreement allows for a cost adjustment at this time of the contract period. The defined price adjustment means that the amount will increase to the new price of $16,992.27 per month, for contract operations as of November 1, 2020.

Though there is no contract paperwork for our files to complete for this 4th year renewal, the EPA requires us to resubmit their paperwork with the additional 2 contract extension years listed. I have attached one for each of the wastewater plants and one to update the water plant contract as well.

We look forward to continued work with the Village of Poplar Grove for many years to come. If you have any questions, please do not hesitate to contact me.

Sincerely,
Total Environmental Service Technologies, Inc.

Christopher M. Perra
President

## CERTIFIED WATER SYSTEM OPERATOR CONTRACT
## EPA Required Language

WHEREAS, Poplar Grove, Illinois, hereinafter designated as the Supply, is desirous to employ a certified water plant operator; and

WHEREAS, Ion Stear (#26198999) of TEST, Inc., Peru, Illinois, hereinafter designated as Contractor Operator, is capable of performing the duties required of a certified water system operator in the State of Illinois, and

WHEREAS, said Supply and Contractor have entered into an agreement for certified operator for the water system operator, agree on the following terms and conditions:

1. That said Contractor, Ion Stear of TEST, Inc., is the holder of an Illinois EPA Class C Certificate as a public water supply operator and that the said Poplar Grove requires the services of such a person in the operation of its' water system.
2. That said parties herein agree that said Independent Contractor will be responsible for operations of Poplar Grove in accordance with the rules and regulations of the Illinois Environmental Protection Agency.
3. Said Independent Contractor hereby agrees to act as the Certified Water Plant Operator on a contractual basis for said Poplar Grove.
4. It is further agreed among the parties herein that Ion Stear of TEST, Inc. is an Independent Contractor and is not an employee of Poplar Grove and is not subject to employee provisions of employment by said Poplar Grove.
5. It is further agreed that this Contract shall be effective on November 1, 2020 and shall be fully operative and binding on all parties to this Contract until October 31, 2022 or canceled by either party by giving 30 days in writing by certified U. S. Mail, postage prepaid.
6. That said parties agree to the requirements set forth in the addendum to this agreement in regard to the responsibilities of both parties.
7. That this agreement and its addendum have been approved by the Illinois Environmental Protection Agency.

This Contract entered into this ____ day of _____, 2020 by the parties hereinbelow mentioned.

_____Title_____
Owner (OW), Official Custodian (OC), OR Administrative Contact (AC)

_____
Christopher Perna, President, TEST, Inc.

_____
Ion Stear, Certified Operator

ATTEST:

_____
(RECORDING CLERK OF SYSTEM)

## ADDENDUM TO CONTRACTUAL PUBLIC WATER SUPPLY AGREEMENT

**1. Information Regarding Parties Involved:**

**Community Water Supply Information**:
Name of Supply: Poplar Grove
System ID #: IL0070150
System ID #: IL0070300
System ID #: IL0070350
Name of Official Custodian: Owen Costanza, Village President
Name of System Contact: Owen Costanza, Village President
Mailing Address: 200 Hill St. PO Box 01, Poplar Grove, IL 61065
Phone: Official Custodian: 815-765-3201

**Certified Public Water Supply Operator**
Name of Certified Operator: Ion Stear
Operator 9-digit ID number: 261989999
Mailing Address: 2323 4th St., PO Box 483, Peru, IL 61354
Phone: 815-224-1650
Email: istear@testinc.com

**2. Starting Date of Agreement:**

**Starting Date: November 1, 2020**

The Owner, Official Custodian, or Administrative Contact of the community water supply must submit this contract delegating responsibility and authority to the contract operator to the IEPA (hereafter known as the Agency) for approval within thirty (30) days following the execution of the contract.

Submit contract to the following address:
Illinois EPA, Drinking Water Compliance Assurance Section #19, 1021 North Grand Avenue East, Springfield, Illinois 62794-9276.

The Agency shall, not later than 45 days following the receipt of this contract, provide notice to the community water supply of its decision to approve or disapprove the contract.

**3. Expiration Date of Agreement:**

**Expiration Date: October 31, 2022**

This contract must include an expiration date. While there is no required length of duration for this contract, the expiration date should be agreeable to both the community water supply and the contract operator.

If any contract approved by the Agency is terminated before the expiration date in the contract, the Owner, Official Custodian, or Administrative Contact of the community water supply and the contract operator must provide written notice to the Agency no less than 15 days before the contract is terminated.

**4. Minimum number of visits (or hours) the contract operator must be on-site each week (or month) to the community water supply:**

**Continual Operation (24/7) and a minimum of 1 weekly visit to each plant by Ion Stear**

**5. The Duties and Responsibilities of Each Party Involved:**

**Community Water Supply Duties and Responsibilities will include but not be limited to:**

A. Provide all needed equipment required to maintain proper day-to-day operation of the community water supply.
B. Provide labor and materials for correcting any maintenance and/or operational problems.
C. Provide necessary monetary funds to cover the costs of requirements outlined in A and B.
D. Ensure that all projects requiring construction and operating permits meet Agency requirements.
E. Ensure that all NPDES permit effluents are being met (if applicable).
F. Party will ensure that the community water supply remains in compliance with, but not limited to, the following:
Design, Operation and Maintenance Criteria, 35 Ill. Adm. Code 604
Raw and Finished Water Quality and Quantity, 35 Ill Adm. Code 604 Subpart B
Primary Drinking Water Standards, 35 Ill. Adm. Code 611
Permits, 35 Ill. Adm. Code 602
Emergency Operation Requirements found in 35 Ill. Adm. Code 604.135(c)
G. Maintain copies of all pertinent reports and records at the treatment plant or other system facility site.
H. Maintain and implement an up-to-date Emergency Operating Plan (EOP).
I. Provide manpower to perform preventive maintenance on equipment as recommended by the manufacturer.
J. Must maintain and submit in a timely matter to the Agency all required operating records and reports. The Contract Operator will complete and submit these but the Supply must keep a record of them in their files.
These records and reports include, but are not limited to:
-Consumer Confidence Report
-Drinking Water Compliance Monitoring Reports
-Discharge Monitoring Reports (if applicable)
-Monthly Operating Reports

**Contractor operator duties and responsibilities will include but not be limited to:**

A. Performing the required number of visits (or hours) as specified in this agreement.
B. Maintaining proper records of the specified visits.
C. Must maintain and submit in a timely manner to the Agency all required operating records and reports. These records and reports include, but are not limited to:
    - Consumer Confidence Report
    - Drinking Water Compliance Monitoring Reports
    - Discharge Monitoring Reports (if applicable)
    - Monthly Operating Reports
D. In addition to the specified visits, the contractual operator must also ensure a means of communication for the community water supply and/or regulatory agencies in the event of routine or emergency operational problems.
E. Ensure by personal action or by directives to system personnel that system is being operated in a matter that provides for the safe and proper production and distribution of potable water.
F. Ensure by personal action and by directives to system personnel that all necessary and required routine operational control testing is being performed.
G. Issue boil orders (when required). This includes notification of affected water system customers by appropriate means, the Illinois Environmental Protection Agency regional office, and the local and/or county public health department, per regulatory guidelines.
H. Issue public notices (when required). This includes notification of affected water system customers, the Illinois Environmental Protection Agency Compliance Assurance Section, and local and/or county public health department. The Illinois Dept. of Public Health must almost be notified in certain situations.
I. Responding to Agency requests for information, site visits, or any other requested data.
J. Provide manpower for the collection of all required samples and submission of these samples to a certified laboratory for analysis.
K. Provide all needed manpower required to maintain proper day-to-day operation of the community water supply.
L. Provide manpower for daily equipment checks.
M. Provide a spare parts inventory.

# Illinois Environmental Protection Agency

Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Wastewater Operator Contract

### Facility Information:

Facility Name: Village of Poplar Grove (North) NPDES Permit Number: IL0023451

Facility Owner/Contact: Owen Costanza Email Address: president@villageofpoplargrove.com

**Facility Physical Address:**

Street: 205 Edson Road County: Boone

City: Poplar Grove State: IL Zip Code: 61065

Phone (w/area code): 815-765-3201

**Facility Mailing Address:**

Street: 200 Hill Street

City: Poplar Grove State: IL Zip Code: 61065

**Facility Type (Check One):**

What is the Group Level of the facility engaged in this contract?

- ○ **Group 1** - Greater than 1.0 MGD
- ◉ **Group 2**
  - ○ Activated Sludge Plant
  - ○ Small Package Plant
- ○ **Group 3**
  - ○ Fixed Film Processes ○ RBCs
  - ○ Imhoff Tanks/Sand Filters ○ Trickling Filters
  - ○ Other
- ○ **Group 4**
  - ○ Non-aerated Lagoons **With** Lift Stations ○ Aerated Lagoons
  - ○ Non-aerated Lagoons **Without** Lift Stations ○ Other

What is the Design Average Flow (DAF) of the facility engaged in this contract? ○ 1.0 MGD or greater ◉ Less than 1.0 MGD

### Contract Operator Personal Information:

Contract Operator Name: Ion Stear

Operator ID # (if known): 261989999 or Last 4 Digits of Social Security #:

Certified Class Level: 1

**Home Address**

Street Address: 9618 Wood Lane P.O. Box:

City: Hebron State: IL Zip Code: 60034

Cell Phone #: 815-560-7399 (with area code first) Home Phone #: (with area code first)

**Contractor Operator Business Information:**

Business Name (if applicable): TEST Inc.

Mailing Address: 2323 4th St. P.O. Box: 483

City: Peru State: IL Zip Code: 61354

Phone Number (with Area Code: 815-224-1650

**Contract Start Date:** Nov 1, 2020 **Contract Expiration Date:** Oct 31, 2022

*The contract must specify a Start and Expiration Date. If no expiration date is specified, or is specified as 'open', the contract will automatically expire one year from the Contract Start Date. Contracts are only allowed a maximum of a 3-year timeframe. Contracts that list the Contract Expiration Date as any date beyond 3 years from the Contract Start Date will automatically expire 3 years from the Contract Start Date.*

**Minimum Number of Visits per:** Week: 7 Month: _____ **Number of Hours/Visit:** _____

*Contracts MUST specify the appropriate minimum number of visits and/or hours per week or month that is required for the Group Level of the facility type. Refer to the Recommended Guidelines for Wastewater Contract Operator Facility Site Visits.*

| **Party in Responsible Charge For (at a minimum):** ***N/A IS NOT AN OPTION FOR ITEMS MARKED WITH AN ASTERISK(*)*** | **Operator** | **Owner** | **N/A** |
|---|---|---|---|
| 1. Proper operation of the wastewater treatment plant, including meeting all NPDES permit effluent requirements; | ☒ | ☒ | * |
| 2. Sample collection pursuant to the NPDES permit; | ☒ | ☐ | ☐ |
| 3. Preparation, signature, **and** submittal of Discharge Monitoring Reports; | ☒ | ☐ | * |
| 4. Laboratory analysis; | ☒ | ☐ | ☐ |
| 5. Maintaining lift stations; | ☒ | ☒ | ☐ |
| 6. Maintaining spare parts inventory; | ☒ | ☒ | ☐ |
| 7. Maintaining required operating records and reports; | ☒ | ☒ | * |
| 8. Providing labor and materials for correcting any maintenance and operational problems; | ☒ | ☒ | ☐ |
| 9. Maintaining, and if necessary, implementing emergency operating plan; | ☒ | ☒ | * |
| 10. Performing preventative maintenance on equipment as recommended by the manufacturer; | ☒ | ☒ | ☐ |
| 11. Performing routine operational control testing as recommended by the Agency. | ☒ | ☒ | * |

**Operator's PRIMARY Role with this Contract (please check one):**

- ◉ Active, hands-on operations and maintenance
- ○ Reports and record-keeping only (Please mark applicable items above).
- ○ Supervisory only (Please mark the items above in which you will be supervising).

**Please attach any additional contract provisions between the operator and facility to this form. If a contract narrative is attached to the contract form it MUST reflect the party responsibilities as noted on the contract form. If there is a discrepancy between the contract form and the contract narrative, the contract will be returned unapproved.**

**Signatures:**

*Contracts MUST be signed by BOTH the Owner and the Operator. If either original signature is missing, the contract will be returned unapproved.*

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h)). Falsification of any information in this application by either party, applicant or supervisor, will disqualify the application and be grounds for sanctions of current certificates held by either party (35 Ill. Adm. Code, Subtitle C, Chapter II, Part 380, Section 380.515(b)).

| | |
|---|---|
| Owen Constanza | Village President |
| Responsible Party/Facility Owner: | Title: |
| | |
| Signature: | Date: |
| | |
| Jon Stear | Certified Operator |
| Properly Certified Operator | Title: |
| | 9-8-20 |
| Signature: | Date: |

**Return Completed Contract Form To:**

Illinois Environmental Protection Agency
Wastewater Operator Certification Program
BOW/DWPC/CAS #19
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Pursuant to 35 Ill. Adm. Code 380.1020, the Agency will approve a contract agreement when the contractual operator is properly certified and the provisions of Sections 380.1000, 380.1005 and 380.1010 are satisfied. The Agency will withdraw an approval when it is determined that the contract provisions are not being met or are inadequate to assure proper operation of the wastewater treatment works.

Pursuant to 35 Ill. Adm. Code 380.1015, the contract operator shall maintain records to document that all contract provisions are being met. Pursuant to 35 Ill. Adm. Code 380.1025, modification or extensions to contractual agreements must be submitted to the Agency as a new contract.

**********IEPA USE ONLY**********

| Approved By: | Date Approved: | FSP #: | New Contract Expiration Date: |
|---|---|---|---|
| | | | |

# Illinois Environmental Protection Agency

Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

## Wastewater Operator Contract

### Facility Information:

Facility Name: Village of Poplar Grove (South) NPDES Permit Number: IL0071447

Facility Owner/Contact: Owen Costanza, Village President Email Address: president@villageofpoplargrove.com

**Facility Physical Address:**

Street: 12211 State Route 76 County: Boone

City: Poplar Grove State: IL Zip Code: 61065

Phone (w/area code): 815-765-3201

**Facility Mailing Address:**

Street: 200 Hill Street

City: Poplar Grove State: IL Zip Code: 61065

**Facility Type (Check One):**

What is the Group Level of the facility engaged in this contract?

- (•) **Group 1** - Greater than 1.0 MGD
- ( ) **Group 2**
  - ( ) Activated Sludge Plant
  - ( ) Small Package Plant
- ( ) **Group 3**
  - ( ) Fixed Film Processes ( ) RBCs
  - ( ) Imhoff Tanks/Sand Filters ( ) Trickling Filters
  - ( ) Other
- ( ) **Group 4**
  - ( ) Non-aerated Lagoons **With** Lift Stations ( ) Aerated Lagoons
  - ( ) Non-aerated Lagoons **Without** Lift Stations ( ) Other

What is the Design Average Flow (DAF) of the facility engaged in this contract? (•) 1.0 MGD or greater ( ) Less than 1.0 MGD

### Contract Operator Personal Information:

Contract Operator Name: Ion Stear

Operator ID # (if known): 261989999 or Last 4 Digits of Social Security #:

Certified Class Level: 1

**Home Address**

Street Address: 9618 Wood Lane P.O. Box:

City: Hebron State: IL Zip Code: 60034

Cell Phone #: 815-560-7399 (with area code first) Home Phone #: (with area code first)

**Contractor Operator Business Information:**

Business Name (if applicable): TEST Inc.

Mailing Address: 2323 4th St. P.O. Box: 483

City: Peru State: IL Zip Code: 61354

Phone Number (with Area Code: 815-224-1650

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*The contract must specify a Start and Expiration Date. If no expiration date is specified, or is specified as 'open', the contract will automatically expire one year from the Contract Start Date. Contracts are only allowed a maximum of a 3-year timeframe. Contracts that list the Contract Expiration Date as any date beyond 3 years from the Contract Start Date will automatically expire 3 years from the Contract Start Date.*

**Minimum Number of Visits per:** Week: 7 Month: _____ **Number of Hours/Visit:** _____

*Contracts MUST specify the appropriate minimum number of visits and/or hours per week or month that is required for the Group Level of the facility type. Refer to the Recommended Guidelines for Wastewater Contract Operator Facility Site Visits.*

| **Party in Responsible Charge For (at a minimum):** ***N/A IS NOT AN OPTION FOR ITEMS MARKED WITH AN ASTERISK(*)*** | Operator | Owner | N/A |
|---|---|---|---|
| 1. Proper operation of the wastewater treatment plant, including meeting all NPDES permit effluent requirements; | ☒ | ☒ | * |
| 2. Sample collection pursuant to the NPDES permit; | ☒ | ☐ | ☐ |
| 3. Preparation, signature, **and** submittal of Discharge Monitoring Reports; | ☒ | ☐ | * |
| 4. Laboratory analysis; | ☒ | ☐ | ☐ |
| 5. Maintaining lift stations; | ☒ | ☒ | ☐ |
| 6. Maintaining spare parts inventory; | ☒ | ☒ | ☐ |
| 7. Maintaining required operating records and reports; | ☒ | ☒ | * |
| 8. Providing labor and materials for correcting any maintenance and operational problems; | ☒ | ☒ | ☐ |
| 9. Maintaining, and if necessary, implementing emergency operating plan; | ☒ | ☒ | * |
| 10. Performing preventative maintenance on equipment as recommended by the manufacturer; | ☒ | ☒ | ☐ |
| 11. Performing routine operational control testing as recommended by the Agency. | ☒ | ☒ | * |

**Operator's PRIMARY Role with this Contract (please check one):**

- (•) Active, hands-on operations and maintenance
- ( ) Reports and record-keeping only (Please mark applicable items above).
- ( ) Supervisory only (Please mark the items above in which you will be supervising).

**Please attach any additional contract provisions between the operator and facility to this form. If a contract narrative is attached to the contract form it MUST reflect the party responsibilities as noted on the contract form. If there is a discrepancy between the contract form and the contract narrative, the contract will be returned unapproved.**

**Signatures:**

*Contracts MUST be signed by BOTH the Owner and the Operator. If either original signature is missing, the contract will be returned unapproved.*

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h)). Falsification of any information in this application by either party, applicant or supervisor, will disqualify the application and be grounds for sanctions of current certificates held by either party (35 Ill. Adm. Code, Subtitle C, Chapter II, Part 380, Section 380.515(b)).

| | |
|---|---|
| Owen Costanza<br>Responsible Party/Facility Owner: | Village President<br>Title: |
| Signature: | Date: |
| Ion Stear<br>Properly Certified Operator | Certified Operator<br>Title: |
| Signature: | 9-8-20<br>Date: |

**Return Completed Contract Form To:**

Illinois Environmental Protection Agency
Wastewater Operator Certification Program
BOW/DWPC/CAS #19
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Pursuant to 35 Ill. Adm. Code 380.1020, the Agency will approve a contract agreement when the contractual operator is properly certified and the provisions of Sections 380.1000, 380.1005 and 380.1010 are satisfied. The Agency will withdraw an approval when it is determined that the contract provisions are not being met or are inadequate to assure proper operation of the wastewater treatment works.

Pursuant to 35 Ill. Adm. Code 380.1015, the contract operator shall maintain records to document that all contract provisions are being met. Pursuant to 35 Ill. Adm. Code 380.1025, modification or extensions to contractual agreements must be submitted to the Agency as a new contract.

**********IEPA USE ONLY**********

| Approved By: | Date Approved: | FSP #: | New Contract Expiration Date: |
|---|---|---|---|
| | | | |

**RESOLUTION NUMBER: 20-33**

**A RESOLUTION OF THE VILLAGE OF POPLAR GROVE, ILLINOIS TO APPROVE AND AUTHORIZE THE VILLAGE PRESIDENT TO EXECUTE A RENEWAL FOR OPERATIONS MANAGEMENT AND SUPERVISION AGREEMENT FOR WASTEWATER TREATMENT PLANTS, LIFT STATIONS, AND WATER TREATMENT PLANTS FOR THE VILLAGE OF POPLAR GROVE WITH TEST, INC.**

**WHEREAS**, the Village of Poplar Grove (the "Village") operates a water and wastewater utility system; and

**WHEREAS,** Test, Inc. ("Test") contracts with municipalities for management, supervision, operation and maintenance of the Village's water and wastewater utilities; and

**WHEREAS**, November 1, 2017, the Village and Test entered into an agreement for services; and

**WHEREAS**, the Village and Test wish to renew the agreement for services effective November 1, 2020 until October 31, 2022; and

**WHEREAS,** Test has prepared an Operations Management and Supervision Agreement for Wastewater Treatment Plants, Lift Stations, and Water Treatment Plants for the Village of Poplar Grove to memorialize the terms of services between the parties; and

**WHEREAS**, the Village Board of the Village of Poplar Grove has reviewed the proposed Operations Management and Supervision Agreement for Wastewater Treatment Plants, Lift Stations, and Water Treatment Plants for the Village of Poplar Grove with Test and approves of the same; and

**WHEREAS**, the Village now desires to renew the Operations Management and Supervision Agreement for Wastewater Treatment Plants, Lift Stations, and Water Treatment Plants for the Village of Poplar Grove with Test for management, supervision, operation and maintenance of the Village's water and wastewater utilities services by Test.

**NOW THEREFORE, BE IT RESOLVED** by the Village President and Board of Trustees of the Village of Poplar Grove, Illinois as follows:

1. The above recitals are incorporated herein and made a part hereof.

2. The Village hereby accepts and approves the renewal of the Operations Management and Supervision Agreement for Wastewater Treatment Plants, Lift Stations, and Water Treatment Plants for the Village of Poplar Grove effective November 1, 2020 until October 31, 2022, attached hereto as Exhibit A, with Test.

3. The Village President and Village Clerk are hereby authorized to execute and attest the Operation Management and Supervision Agreement for Wastewater Treatment Plants, Lift

Stations, and Water Treatment Plants for the Village of Poplar Grove with Test for the Village's water and wastewater utilities services attached hereto as Exhibit A.

PASSED UPON MOTION BY _____

SECONDED BY _____

BY ROLL CALL VOTE THIS ____ DAY OF _____, 2020

AS FOLLOWS:

VOTING "AYE": _____

_____

VOTING "NAY": _____

_____

ABSENT, ABSTAIN, OTHER _____

_____

APPROVED_____, 2020

_____
VILLAGE PRESIDENT

ATTEST:

_____
VILLAGE CLERK

**EXHIBIT A: Renewal Operations Management and Supervision Agreement for Wastewater Treatment Plants, Lift Stations, and Water Treatment Plants for the Village of Poplar Grove**

# Resolution 20 - 34

## A RESOLUTION OF THE VILLAGE OF POPLAR GROVE TO PROCURE GEOTECHNICAL SITE EXPLORATION SERVICES FOR THE PUBLIC WORKS BUILDING SITE

**WHEREAS,** the Village of Poplar Grove (Village) is currently designing a new Public Works Building; and,

**WHEREAS,** the Village desires to retain a professional consulting firm to complete a Geotechnical Site Exploration to determine soil types and bearing strengths for use in preliminary foundation and site design: and,

**WHEREAS,** Testing Service Corporation and Geocon Professional Services have submitted a proposal for the Geotechnical Site Exploration; and,

**WHEREAS,** after close and careful consideration, the Village desires to enter into a professional service agreement with Geocon Professional Services; and,

**WHEREAS,** the Village has determined that it is in the best interest of the Village and its citizens to retain the services of the Geocon Professional Services for the Geotechnical Site Exploration.

NOW THEREFORE BE IT RESOLVED by the President and Board of Trustees of the Village of Poplar Grove, Boone County, Illinois, that:

1. The above recitals are incorporated herein and made part hereof.

2. The Village President is authorized to execute a professional service agreement with Geocon Professional Services for the Geotechnical Site Exploration Services for the Public Works Building for the amount of $5,837.00.

3. FURTHER, said agreement is attached to and made part of this resolution.

PASSED UPON MOTION BY _____

SECONDED BY _____

BY ROLL CALL VOTE THIS _____ DAY OF _____, 2020.

AS FOLLOWS:

VOTING “AYE”: _____

_____

VOTING “NAY”: _____

_____

ABSENT, ABSTAIN, OTHER _____

APPROVED_____, 2020

_____
VILLAGE PRESIDENT

ATTEST:

VILLAGE CLERK:_____

SOLUTIONS BANK

October 6, 2020

Village of Poplar Grove
Mr. Owen Costanza, President
200 N. Hill Street
Poplar Grove, IL 61065

Dear Owen:

Thank you for allowing Solutions Bank the opportunity to offer financing terms for the construction of your new maintenance building. Please accept the following as our loan commitment:

- Borrower: Village of Poplar Grove, an Illinois Municipality
- Loan Amount: $1,500,000.00
- Purpose: Construct maintenance building
- Interest rate: 1.75% fixed (line of credit - construction period)
- Interest rate: 2.10% fixed (term period)
- Payments (construction period): Accrued interest, monthly
- Payments (term period): $13,870 per month (principal and interest)
- Maturity: Two (2) years (construction period); Ten (10) years (term period)
- Amortization: Ten (10) years (term period)
- Prepayment penalty: None
- Expiration Date: This proposal will be in effect until December 31, 2020.

- Authorization: Borrower agrees to provide copies of meeting minutes detailing the amount of the loan, intention to borrow from Solutions Bank, names/titles of the loan document signers and that the loan will be a General Obligation to the Village.

- Financial Disclosure: Borrower agrees to provide Bank with appropriate Board authorized annual financial statements and budgets.

Again, we thank you for the opportunity to offer financing and if you have any questions, please feel free to give me a call.

Sincerely,

Scott A. Greenlee
Senior Vice President

**ORDINANCE NO. 2020-24**

**AN ORDINANCE OF THE VILLAGE OF POPLAR GROVE, ILLINOIS AUTHORIZING THE VILLAGE TO EXECUTE A PROMISSORY NOTE EVIDENCING A GENERAL OBLIGATION OF THE VILLAGE IN AN AMOUNT NOT TO EXCEED $1,500,000.00 FOR THE PURPOSES OF FINANCING THE CONSTRUCTION OF A NEW PUBLIC WORKS BUILDING AND APPURTENANCES THERETO**

WHEREAS, the Village of Poplar Grove, Illinois ("Village") is a duly organized and existing municipality created under the provisions of the laws of the State of Illinois, and is now operating under the provisions of the Illinois Municipal Code, as supplemented and amended;

WHEREAS, the President and Board of Trustees of the Village have determined that it is advisable, necessary, and in the best interest of the Village and its residents to construct a new public works building and appurtenances thereto (the "Project"); and

WHEREAS, the estimated costs of the Project is anticipated to be $1,500,000.00; and

WHEREAS, the Village Board has determined that there are insufficient funds on hand and lawfully available to pay up-front these costs of the Project, and it is necessary to issue additional obligations of the Village to pay such costs; and

WHEREAS, these costs of the Project are expected to be defrayed by the $1,500,000.00 proceeds of the obligations authorized by this Ordinance; and

WHEREAS, Section 8-1-3.1 of the Illinois Municipal Code provides that the corporate authorities of a municipality may borrow money from any bank or other financial institution provided such money shall be repaid within 10 years from the time the money is borrowed. The mayor or president of the municipality, as the case may be, shall execute a promissory note or similar debt instrument, but not a bond, to evidence the indebtedness incurred by the borrowing. The obligation to make the payments due under the promissory note or other debt instrument shall be a lawful direct general obligation of the municipality payable from the general funds of the municipality and such other sources of payment as are otherwise lawfully available. The promissory note or other debt instrument shall be authorized by an ordinance passed by the corporate authorities and shall be valid whether or not an appropriation with respect to that ordinance is included in any annual or supplemental appropriation adopted by the corporate authorities. The indebtedness incurred under Section 8-1-3.1., when aggregated with the existing indebtedness of the municipality, may not exceed the debt limitation provided in Section 8-5-1 of the Illinois Municipal Code; and

WHEREAS, pursuant to Section 8-1-3.1 of the Illinois Municipal Code, the Village desires to borrow $1,500,000.00 from Solutions Bank f/k/a Poplar Grove State Bank and evidence such borrowing through a promissory note from the Village to such bank for purposes of financing the costs of the Project; and

WHEREAS, the promissory note shall be repaid within 10 years (or less) from the time the money is borrowed; and

WHEREAS, the indebtedness evidenced by the promissory note, when aggregated with the existing indebtedness of the Village will not exceed the debt limitation provided in Section 8-5-1 of the Illinois Municipal Code; and

WHEREAS, the promissory note shall be a General Obligation to the Village; and

WHEREAS, the promissory note shall be issued in accordance with the terms listed in the loan commitment, a copy of which is attached hereto as Exhibit A and incorporated herein; and

WHEREAS, the promissory note shall also be secured by the full faith and credit of the Village.

**NOW THEREFORE**, be it ordained by the President and Board of Trustees of the Village of Poplar Grove, Illinois as follows:

1. **Incorporation of Preambles.** The Village Board finds and determines that all of the recitals contained in the preambles to this ordinance are true, correct and complete and incorporates them into this Ordinance by this reference.

2. **Determination to Authorize Borrowing via Promissory Note.** It is necessary and in the best interest of the Village to undertake the Project for the public health, welfare, safety and convenience of the residents of the Village. Accordingly, the Project shall be undertaken. For the purpose of paying the costs of the Project, a promissory note, along with any other documents necessary to effectuate the intent of this Ordinance, are authorized to be executed by the Village President pursuant to Section 8-1-3.1 of the Illinois Municipal Code in an amount not to exceed $1,500,000.00, payable from (among other things) the general fund of the Village and subject to terms in the loan commitment in Exhibit A. Such indebtedness shall be repaid within 10 years (or less) from the date of the borrowing.

3. **Authorized Signers.** Each draw on the promissory note shall be authorized by two account signers.

4. **Full Faith and Credit Obligation.** The indebtedness evidenced by the promissory note shall also be secured by the full faith and credit of the Village.

5. **Severability.** If any section, paragraph, clause or provision of this ordinance shall be held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any other provision of this ordinance.

6. **Repealer, and Effective Date**. All ordinances, resolutions, or orders or parts of ordinances, resolutions or orders, in conflict with the provisions of this ordinance are

repealed to the extent of such conflict. This ordinance shall be in full force and effect after its adoption, approval and publication, as provided by law.

PASSED UPON MOTION BY _____

SECONDED BY _____

BY ROLL CALL VOTE THIS _____ DAY OF _____, 2020

AS FOLLOWS:

VOTING "AYE": _____

_____

VOTING "NAY": _____

_____

ABSENT, ABSTAIN, OTHER _____

_____

APPROVED_____, 2020

ATTEST:

_____ _____

CLERK PRESIDENT

# EXHIBIT A – LOAN COMMITMENT

Comfort Solutions Heating and Air Conditioning
130 Cross Dr.
Poplar Grove, IL. 61065
815-218-6271

10/14/2020

Village of Poplar Grove
200 N Hill St
Poplar Grove, IL. 61065

Waste Water Treatment
Hwy 76
Poplar Grove, IL. 61065
(Grit Room)

Comfort Solutions Heating and Air Conditioning replaced the furnace for the Grit room.

Schwanke 175,000 Btu natural gas radiant tube heater, 60' in length will be suspended from the ceiling. All venting, intake from outside for combustion air, gas pipe connection, electrical and low voltage hookups, thermostat (heat only), removal of 1 old unit heater, all labor to complete the job. $5,260.00

Sky lift rental $400.00

Terms: 35% down payment and the balance due upon completion
Comfort Solutions heating and Air Conditioning is insured and bonded.
We except Cash, Checks, Visa, Master Card, Discover.

Acceptence:_____ Date:_____

Company: Keith Anderson Date: 10/14/2020

# VILLAGE OF POPLAR GROVE

*"A Great Place to Call Home"*

**200 Hill Street, P.O. Box 1, Poplar Grove, IL 61065**
**Phone: (815) 765-3201 – Fax: (815)765-3571**
www.villageofpoplargrove.com

To: Village Board of Trustees

Date: 10/14/2020

Reason: Grit Room Furnace SWWTP

---

Currently, there are two hanging, forced air heaters located in the grit room at the south wastewater treatment plant. One of the heaters has not operated in over a year and the other has been temporarily repaired by Comfort Solutions to get us by at the moment. It is only a matter of time before the second unit malfunctions in a way that it can not be repaired and we will be without heat all together. This unit also has cracks and multiple holes in the heat exchanger. In short, it is time for a replacement.

The grit room has a very corrosive environment due to the wastewater gasses within the room. Ion and myself decided it would be best to convert the room over to a radiant style tube heater because it will be sealed and not allow the corrosive environment to reach the internal components of the furnace. A radiant style heater also heats surfaces, instead of just the air, which will allow one heater to more evenly heat the room instead of replacing both hanging style forced air units.

Three quotes were obtained for a replacement heater. Comfort Solutions (who does all of our heating and A/C PM's) was the lowest quote at $5,660.00. I have attached their quote and recommend using them to install a radiant tube heater in the SWWTP grit room as soon as possible.

Regards,

Mitch Hilden
Director of Public Works

**RESOLUTION NUMBER:** 20-36

**A RESOLUTION OF THE VILLAGE OF POPLAR GROVE, ILLINOIS TO APPROVE AND AUTHORIZE THE PURCHASE AND INSTALLATION OF A HEATER BY COMFORT SOLUTIONS HEATING AND AIR CONDITIONING AND AUTHORIZE THE VILLAGE PRESIDENT TO EXECUTE AN AGREEMENT WITH COMFORT SOLUTIONS HEATING AND AIR CONDITIONING**

**WHEREAS**, the Village of Poplar Grove, Illinois ("Village") has two (2) nonfunctional forced air heaters at the South Wastewater Treatment Plant; and

**WHEREAS**, the Village desires to install a radiant style tube heater to replace the two (2) nonfunctional forced air heaters at the South Wastewater Treatment Plant; and

**WHEREAS**, pursuant to Section 1-10-3 of the Village of Poplar Grove Code of Ordinances ("Village Code"), in accordance with Subsection C, Category B, Non-Emergency purchases, "Purchases between $2,501.00 and the state limit require three written quotes and the approval of the Village Administrator, Village Treasurer and Village President. Physical records regarding dates, contacts, and quotes received should be retained in the Department's files. Due diligence must be done to obtain three written quotes. If three written quotes are unable to be obtained, formal approval from the Village Administrator, Village Treasurer, and Village President must be obtained prior to purchase."; and

**WHEREAS**, in accordance with the Village Code, the Village solicited three (3) quotes for the purchase and installation of a radiant style tube heater; and

**WHEREAS**, Comfort Solutions Heating and Air Conditioning ("Comfort Heating") is a company that sells and installs heaters and heating components; and

**WHEREAS**, Comfort Heating submitted the lowest quote for the purchase and installation of a radiant style tube heater; and

**WHEREAS**, the Village desires to enter into a contract with Comfort Heating for the purchase and installation of a radiant style tube heater; and

**WHEREAS**, the Village and Comfort Heating have reached an accord as to the terms and conditions upon which Comfort Heating will provide and install a radiant style tube heater and have memorialized the same in the agreement attached hereto as Exhibit A and incorporated herein ("Agreement"); and

**WHEREAS**, the Village has determined it is in the best interest of the Village and its citizens to enter into the Agreement.

NOW THEREFORE, BE IT RESOLVED by the Village Board of Trustees of the Village of Poplar Grove, Illinois as follows:

1. The above recitals are incorporated herein and made a part hereof.

2. The Village hereby accepts and approves the Agreement attached hereto as Exhibit A, or one in substantially similar form.

3. The Village President and Village Clerk are hereby authorized to execute and attest the Agreement.

PASSED UPON MOTION BY _____

SECONDED BY _____

BY ROLL CALL VOTE THIS _____ DAY OF _____, 2020

AS FOLLOWS:

VOTING "AYE": _____

_____

VOTING "NAY": _____

_____

ABSENT, ABSTAIN, OTHER _____

_____

APPROVED_____, 2020

_____
VILLAGE PRESIDENT

ATTEST:

_____
VILLAGE CLERK

# EXHIBIT A: AGREEMENT

Comfort Solutions Heating and Air Conditioning
130 Cross Dr.
Poplar Grove, IL. 61065
815-218-6271

10/14/2020

Village of Poplar Grove
200 N Hill St
Poplar Grove, IL. 61065

Waste Water Treatment
Hwy 76
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Comfort Solutions Heating and Air Conditioning replaced the furnace for the Grit room.

Schwanke 175,000 Btu natural gas radiant tube heater, 60' in length will be suspended from the ceiling. All venting, intake from outside for combustion air, gas pipe connection, electrical and low voltage hookups, thermostat (heat only), removal of 1 old unit heater, all labor to complete the job. $5,260.00

Sky lift rental $400.00

Terms: 35% down payment and the balance due upon completion
Comfort Solutions heating and Air Conditioning is insured and bonded.
We except Cash, Checks, Visa, Master Card, Discover.

Acceptence:_____ Date:_____

Company: Keith Anderson Date: 10/14/2020

**RESOLUTION NUMBER:** 20-37

**A RESOLUTION OF THE VILLAGE OF POPLAR GROVE, ILLINOIS TO AUTHORIZE AN EMERGENCY PURCHASE OF A 6" LEGEND "T" VERSION BLOWER FOR THE WASTEWATER TREATMENT FACILITY IN THE AMOUNT OF $5,245.00.**

WHEREAS, the Village of Poplar Grove ("Village") operates a Wastewater Treatment Facility;

WHEREAS, recently the Village has become aware of an emergency relating to a need to replace critical equipment at the Wastewater Treatment Facility; and

WHEREAS, the purchase of a 6" Legend "T" Version Blower is required to ensure proper function of the facility; and

WHEREAS, pursuant to Section 1-10-3 of the Village of Poplar Grove Code of Ordinances, Emergency Purchases, "In the event of enemy caused, other disaster, or other exigent circumstances, the Village President or his/her designee is authorized on behalf of the village to procure such services, supplies, equipment, or materials as may be necessary for such purposes, in view of exigency, without regard to the statutory procedures or formalities normally prescribed by law pertaining to village contracts or obligations, as authorized by the Village Code."; and

WHEREAS, in this case, it was necessary for the continued operation of the municipal Wastewater Treatment Facility for the Village to purchase a 6" Legend "T" Version Blower; and

WHEREAS, the Village believes the purchase of the 6" Legend "T" Version Blower is in the best interest of the Village.

NOW THEREFORE, BE IT RESOLVED by the Village President and Board of Trustees of the Village of Poplar Grove, Illinois as follows:

1. The above recitals are incorporated herein and made a part hereof.

2. The Village hereby retroactively approves the emergency expenditure for the 6" Legend "T" Version Blower from WMW Meyer at a cost not to exceed $5,245.00 for the purchase of the equipment and installation pursuant to the terms and provisions as set forth in the proposal attached hereto as Exhibit A.

3. By the adoption of this Resolution, any prior actions of the Village relating to the purchase of equipment and service related to the installation of the 6" Legend "T" Version Blower referenced herein are hereby approved.

PASSED UPON MOTION BY: _____

SECONDED BY:_____

BY ROLL CALL VOTE THIS _____, _____, 2020

AS FOLLOWS:

VOTING "AYE": _____

VOTING "NAY": _____

_____

ABSENT, ABSTAIN, OTHER: _____

_____

APPROVED: _____

_____
VILLAGE PRESIDENT

ATTEST:

_____
VILLAGE CLERK

**EXHIBIT A- 6" LEGEND "T" VERSION BLOWER PROPOSAL**

**From:** Greg Buric <GregBuric@wmwmeyer.com>
**Date:** August 5, 2020 at 1:37:23 PM EDT
**Subject: 6" Sutorbilt Legend "T" Series**

Ion,
We are pleased to quote the following:
GD MODEL: GAFMCTA
Desc: 6MT-LHC (Left hand shaft location),  Bare Blower
Meyer Price $ 4445.00 net each including oil and freight to plant
Field install is $800.00
Delivery Note:  5-6 weeks due to blower lead time at 4-5 weeks ARO
Thanks

Greg Buric
**President**

Gardner Denver

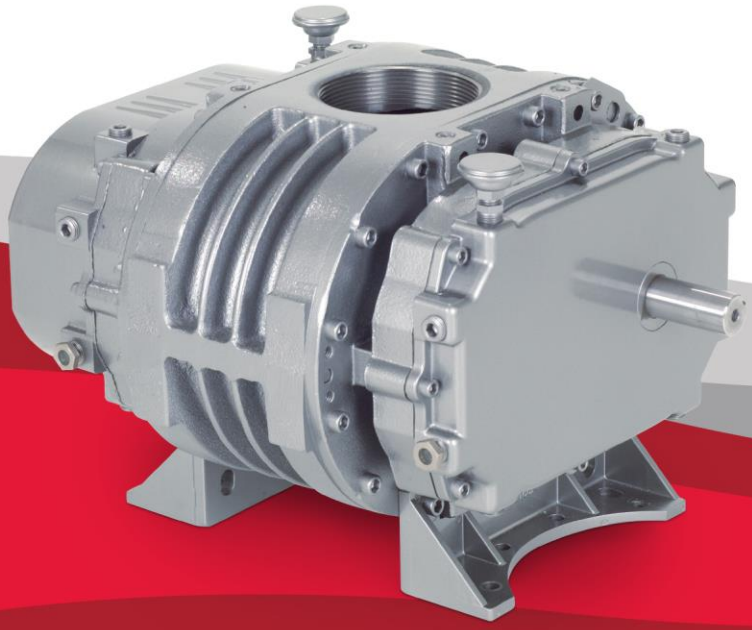
# PD BLOWERS & VACUUM PUMPS
# LEGEND BLOWER | 6” GEAR DIAMETER

## Operating, Service & Parts List Manual

## LEGEND 6” GEAR DIAMETER

**MODELS:**

GAF_ _T_



SB-7-637
Version 00
April 7, 2020

## MAINTAIN BLOWER RELIABILITY AND PERFORMANCE WITH GENUINE GARDNER DENVER PARTS AND SUPPORT SERVICES

Factory genuine parts, manufactured to design tolerances, are developed for optimum dependability, specifically for your blower. Design and material innovations are born from years of experience with hundreds of different blower applications. When you specify factory genuine parts you are assured of receiving parts that incorporate the most current design advancements manufactured in our state-of-the-art blower factory under exacting quality standards.

Your AUTHORIZED DISTRIBUTOR offers all the backup you require. A worldwide network of authorized distributors provides the finest product support in the blower industry.

Your AUTHORIZED DISTRIBUTOR can support your blower investment with these services:

1. Trained parts technical representatives to assist you in selecting the correct replacement parts.

2. Complete inventory of new machines and new, genuine factory parts.

3. A full line of factory tested AEON™ PD Series blower lubricants specifically formulated for optimum performance in all blowers.

4. Authorized distributor service technicians are factory-trained and skilled in blower maintenance and repair. They are ready to respond and assist you by providing fast, expert maintenance and repair service.

## INSTRUCTIONS FOR DETERMINING BLOWER CONFIGURATION

1. Face the blower drive shaft.
2. In a **VERTICAL** configuration, air flow is horizontal.
3. In a **HORIZONTAL** configuration, air flow is vertical.
4. In a vertical configuration, a **BOTTOM HAND** exists when the drive shaft is below the horizontal center line of the blower. A **TOP HAND** exists when the drive shaft is above the horizontal center line of the blower.
5. In a horizontal configuration, a **RIGHT HAND** exists when the drive shaft is to the right of the vertical center line of the blower. A **LEFT HAND** exists when the drive shaft is to the left of the vertical center line of the blower.

### INSTRUCTIONS FOR ORDERING REPAIR PARTS

For pricing, and ordering information contact your nearest AUTHORIZED FACTORY DISTRIBUTOR. When ordering parts, specify Blower **MODEL** and **SERIAL NUMBER** (see nameplate on unit).

Rely upon the knowledge and experience of you AUTHORIZED DISTRIBUTOR and let them assist you in making the proper parts selection for your blower.

To Contact Gardner Denver or locate your local distributor:

Visit: www.gardnerdenver.com/en-us/gdproducts/products/blowers

Or

Call: (800) 682-9868

## GARDNER DENVER LUBRICANT ORDER INFORMATION

Re-order Part Numbers for Factory Recommended Lubricants.

### Gear and Drive End

| AEON PD Synthetic Lubricant | |
|---|---|
| **Description** | **Part Number** |
| 1 Quart | 28G23 |
| Case/12Quarts | 28G24 |
| 1 Gallon Container | 28G40 |
| Case/6 Gallons | 28G41 |
| 5 Gallon Pail | 28G25 |
| 55 Gallon Drum | 28G28 |

| AEON PD-XD Extreme Duty Synthetic Lubricant | |
|---|---|
| **Description** | **Part Number** |
| 1 Quart | 28G46 |
| Case/12Quarts | 28G47 |
| 1 Gallon Container | 28G42 |
| Case/6 Gallons | 28G43 |
| 5 Gallon Pail | 28G44 |
| 55 Gallon Drum | 28G45 |

| AEON PD-FG Food Grade Synthetic Lubricant | |
|---|---|
| **Description** | **Part Number** |
| 1 Quart | 28H97 |
| Case/12Quarts | 28H98 |
| 1 Gallon Container | 28H333 |
| Case/6 Gallons | 28H334 |
| 5 Gallon Pail | 28H99 |
| 55 Gallon Drum | 28H100 |

### Drive End

| AEON PD Grease | |
|---|---|
| **Description** | **Part Number** |
| Case/10 Tubes (14oz/Tube) | 28H283 |

**Call your local Gardner Denver Distributor to place your order for Gardner Denver lubricants. Your Authorized Gardner Denver Distributor is:**

_____

_____

## FOREWORD

Sutorbilt® blowers are the result of advanced engineering and skilled manufacturing. To be assured of receiving maximum service from this machine, the owner must exercise care in its operation and maintenance. This manual is written to give the operator and maintenance department essential information for day-to-day operation, maintenance and adjustment. Careful adherence to these instructions will result in economical operation and minimum downtime.

| |
|---|
| **⚠ DANGER** |
| **Danger is used to indicate the presence of a hazard which will cause severe personal injury, death, or substantial property damage if the warning is ignored.** |

| |
|---|
| **⚠ WARNING** |
| **Warning is used to indicate the presence of a hazard which can cause severe personal injury, death, or substantial property damage if the warning is ignored.** |

| |
|---|
| **⚠ CAUTION** |
| **Caution is used to indicate the presence of a hazard which will or can cause minor personal injury or property damage if the warning is ignored.** |

| **NOTICE** |
|---|
| **Notice is used to notify people of installation, operation or maintenance information which is important but not hazard-related.** |

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# SUTORBILT LEGEND SERIES BLOWERS
# MATRIX/MENU

NOTICE TO CUSTOMER – To find the construction options for Your blower unit, FILL IN THE BALANCE OF LETTERS OR NUMBERS FROM YOUR UNIT NAMEPLATE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | G | A | | | | T | |
| COLUMN NUMBER: | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

FOLLOW THE LINE DOWN AND OVER FROM EACH SPACE THUS FILLED IN TO FIND THE APPROPRICATE CONSTRUCTION OPTION WITH WHICH YOUR MACHINE IS EQUIPPED.

COLUMN 1 – BASIC DESIGNATOR

COLUMN 2 – PRODUCT FAMILY

COLUMN 3 – GEAR DIAMETER

| | |
|---|---|
| F | 6” |

COLUMN 4 – CASE LENGTH

| | | |
|---|---|---|
| L | - | Low Pressure |
| M | - | Medium Pressure |
| H | - | High Pressure |

COLUMN 5 – CONFIGURATION

| | |
|---|---|
| A | Vertical-Top Hand -Central Timed |
| B | Vertical-Bottom Hand – Central Timed |
| C | Horizontal – Left Hand – Central Timed |
| D | Horizontal – Right Hand – Central Timed |

COLUMN 6 – DESIGN VERSION

COLUMN 7 – ADDITIONAL DESCRIPTION

| | SEALS | CLEARANCES | LUBRICATION |
|---|---|---|---|
| A. | Lip | Standard | Grease-Splash |
| B. | Mechanical | Standard | Grease-Splash |
| C. | Lip | High Temperature | Grease-Splash |
| D. | Lip | Standard | Dual-Splash |
| E. | Mechanical | Standard | Dual-Splash |
| F. | Lip | High Temperature | Dual-Splash |
| G. | Mechanical | High Temperature | Dual-Splash |

## SAFETY PRECAUTIONS

Safety is everybody's business and is based on your use of good common sense. All situations or circumstances cannot always be predicted and covered by established rules. Therefore, use your past experience, watch out for safety hazards and be cautious. Some general safety precautions are given below:

**⚠ DANGER**

**Failure to observe these notices could result in injury to or death of personnel.**

- **Keep fingers and clothing away from blower inlet and discharge ports, revolving belts, sheaves, drive coupling, etc.**
- **Do not use the air discharge from this unit for breathing, not suitable for human consumption.**
- **Do not loosen or remove the oil filler plug, drain plugs, covers or break any connections, etc., in the blower air or oil system until the unit is shut down and the air pressure has been relieved.**
- **Electrical shock can and may be fatal.**
- **Blower unit must be grounded in accordance with the National Electrical Code. A ground jumper equal to the size of the equipment ground conductor must be used to connect the blower motor base to the unit base.**
- **Open main disconnect switch, tag and lockout before working on the control.**
- **Disconnect the blower from its power source, tag and lockout before working on the unit, this machine is automatically controlled and may start at any time.**

**⚠ WARNING**

**Failure to observe these notices could result in damage to equipment.**

- **Stop the unit if any repairs or adjustments on or around the blower are required.**
- **Disconnect the blower from its power source, tag and lockout before working on the unit, this machine is automatically controlled and may start at any time.**
- **Do not exceed the rated maximum speed value shown on the nameplate.**
- **Do not operate unit if safety devices are not operating properly. Check periodically. Never bypass safety devices.**

## INTRODUCTION
## YOUR KEY TO TROUBLE FREE SERVICE

Thank you for investing in Gardner Denver quality. The Gardner Denver reputation for rugged dependability has been earned by over 50 years of service in demanding, industrial operations where downtime cannot be tolerated and efficient blower performance is expected.

Your Gardner Denver Sutorbilt blower is a precision engineered blower that has been carefully manufactured and thoroughly tested at the state-of the art Gardner Denver Blower Factory in Sedalia, Missouri.

As with other precision machinery, there are several relatively simple installation, operation and maintenance procedures that you must observe to assure optimum blower performance. There is no guesswork in the manufacture of your highly advanced Sutorbilt blower and there must be none in preparing the blower to get the job done in the field.

The purpose of this manual is to help you properly install, operate and maintain your Sutorbilt blower. It is essential that you review all sections of this manual in preparation for installing your blower. Follow the instructions for installing your blower. Follow the instructions carefully and you will be rewarded with trouble-free Gardner Denver Sutorbilt service year in and year out.

## SECTION 1
## EQUIPMENT CHECK

Before uncrating, check the packing slip carefully to be sure all the parts have been received. All accessories are listed as separate items on the packing slip, and small important accessories such as relief valves can be overlooked or lost. After every item on the packing slip has been checked off, uncrate carefully. Register a claim with the carrier for lost or damaged equipment.

**⚠WARNING**

**Customers are cautioned to provide adequate protection, warning and safety equipment necessary to protect personnel against hazards involved in installation and operation of this equipment in the system or facility.**

### STORAGE

Your Gardner Denver Blower was packaged at the factory with adequate protection to permit normal storage for up to six (6) months.

If the unit is to be stored under adverse conditions or for extended periods of time, the following additional measures should be taken to prevent damage.

1. Store the blower in a clean, dry, heated (if possible) area.
2. Make certain inlet and discharge air ports are tightly covered to prevent foreign material from entering the air box.
3. All exposed, non-painted surfaces should be protected against rust and corrosion.
4. Provide adequate protection to avoid accidental mechanical damage.
5. In high humidity or corrosive environments, additional measures may be required to prevent rusting of the blower internal surfaces.
6. To prevent rusting of gears, bearings, etc., the oil reservoirs may be filled with normal operating oil.

**⚠CAUTION**

**Before running the blower, drain the oil and replace to the proper operating level with clean, fresh lubricant.**

7. Rotate the blower shaft (10 to 25 turns) weekly during storage. Inspect the blower shaft (near the shaft seal area) monthly and spray with rust inhibitor if needed.

8. For long term storage (over six (6) months), contact Gardner Denver Compressor Division Customer Service for recommendations.

**REMOVING PROTECTIVE MATERIALS**

The shaft extension is protected with rust inhibitor which can be removed with any standard solvent.

**⚠CAUTION**

**Follow the safety directions of the solvent manufacturer.**

Blower inlet and outlet are temporarily capped to keep out dirt and other contaminants during shipment. These covers must be removed before start-up.

The internal surfaces of all Sutorbilt units are mist sprayed with a rust preventative to protect the machine during shipment. Remove this film upon initial startup, using any commercial safety solvent. Position the blower so that the inlet and discharge connections are in the vertical position (vertical airflow). On vertically mounted units, it will be necessary to lay the unit on its side supporting the ends of the unit so as not to restrict the port on the bottom side. Place a shallow pan on the underside of the unit. With the blower disconnected from power, spray the solvent in the top port, rotating the impellers by spinning the shaft manually. Continue this procedure until the unit is visibly clean.

**⚠WARNING**

**Rotating components will cause severe injury in case of personal contact. Keep hands and loose clothing away from blower inlet and discharge ports.**

## SECTION 2
## INSTALLATION

**GENERAL** – The Sutorbilt Legend is a compact, rotary straight bi-lobe blower. The meshing of two bi-lobe type rotors synchronized by timing gears provides controlled compression of the air.

**OPERATING PRINCIPLE** – Compression is achieved by the driven (2 lobe) and drive (2 lobe) rotors meshing enclosed in the housing. The timing gears maintain close rotor clearances. The rotors do not touch each other or the housing. Although clearances are small, lubrication in the compression chamber is not required, insuring oil-free air delivery.

The compression cycle begins as the rotors unmesh at the inlet port. Air is drawn into the rotor cavities, trapped, and compressed by the reducing cavities as rotation continues. When full compression is made, the cavities cross the discharge port, completing the cycle. The cycle occurs two times for each revolution of the shaft and is continuous.

**CONSTRUCTION** – All models of the Sutorbilt Legend series of Blowers are of similar design and construction. The housing is a one-piece design with flanged or threaded inlet and discharge openings.

The rotors are ductile iron attached to a steel shaft. Rotors are dynamically balanced for vibration-free operation. Timing gears are made of alloy steel and are ground for quiet operation.

One double row angular-contact ball bearing is used on each rotor shaft at the gear end as a fixed bearing to maintain rotor axial end clearance.

A cylindrical roller bearing is used on the drive shaft rotor at the drive end as a floating bearing to maintain rotor radial clearance and to support belt loads. A single row deep groove ball bearing is used on the short shaft rotor at the drive end to maintain rotor radial clearance.

All gears and bearings on the gear end are oil splash lubricated. Drive end bearings may be splash or grease lubricated depending on type of unit configuration.

A vent opening is provided between the air chamber seal and the oil sump seal. This vent prevents any air seal leakage from flowing through the oil seal and must be left open to atmosphere.

**LOCATION –** Select a clean, dry, well-ventilated area for installing blower and allow ample room for normal maintenance. Proper ventilation is necessary for blower cooing and cool air intake. Do not exceed any of the limits listed in the table below without consulting the factory.

| | |
|---|---|
| Maximum Ambient | 113°F (45°C) |
| Minimum Inlet Temperature | -20°F (-29°C) |
| Minimum Ambient Temperature* | -10°F (-23°C) |

*Operation at ambient temperatures below 10°F requires sump heaters, heated enclosure, and synthetic lubricant. These precautions are recommended for operation below 32°F.

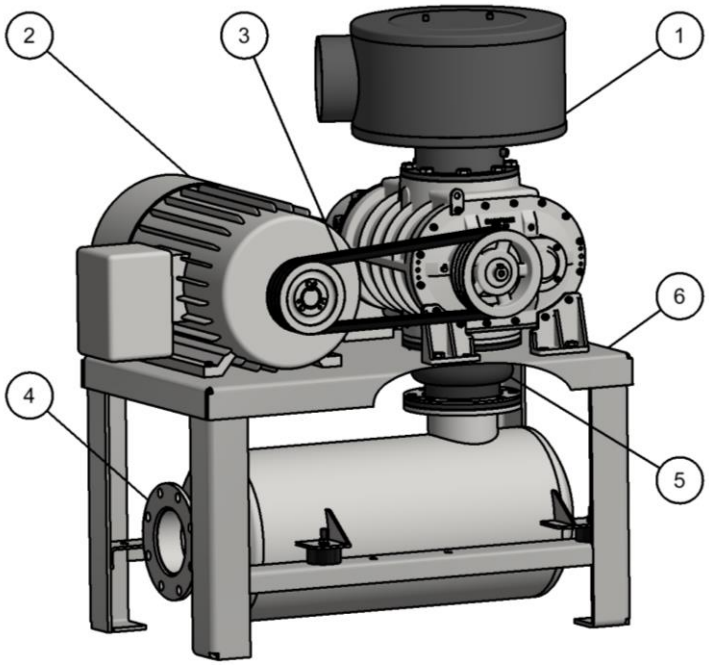
**FIGURE 2-1 ENVIRONMENTAL LIMITS**

**⚠WARNING**

**Do not electric weld on the blower or base; bearings can be damaged by the passage of current.**

**FOUNDATIONS –** Correct supporting is important. Distortion by incorrect supporting will affect internal operating clearances. The foundation or base must provide a level, rigid, nonworking support for the blower. It must be on a uniform and solid footing. Complete foundation design cannot be given because of varying conditions. Contact the factory for application specific recommendations.

For permanent installations, we recommend concrete foundations be provided. The equipment should be grouted to the concrete. Use non-shrinking grout only. It is necessary that a suitable base be used, such as steel combination base under the blower and motor, or a separate sole plate under each. The blower feet must be 100% supported. Before grouting, equipment must be leveled, free of all strains, and anchored so no movement will occur during curing of grout. After grout has completely hardened, a recheck is necessary to compensate for shrinkage. If required, add shims under blower feet after final tightening of foundation anchor bolts to remove strain from the blower housing. Where jack screws or wedges are used during grouting, they must be backed off or removed before final tightening of anchor bolts. Where a concrete foundation is not feasible, care must be taken to insure that equipment is firmly anchored to adequate structural members. The blower must be installed on a flat, level surface and bolted down evenly to prevent warping or strain. Internal clearances are very critical and serious damage or failure can result from housing distortion. Shim under the blower feet as required to achieve less than 0.002” [50 µm] gap.




GAF797_T_29 / 00

**ACCESSORIES**– The type of service determines the accessory group required. The typical items are listed as follows:

1. Inlet Filter or Filter-silencer.
2. Driver (Electric Motor)
3. Simple V-Belt Drive
4. Discharge Silencer
5. Expansion Joint(s), Inlet and/or Discharge.
6. Base Plate.

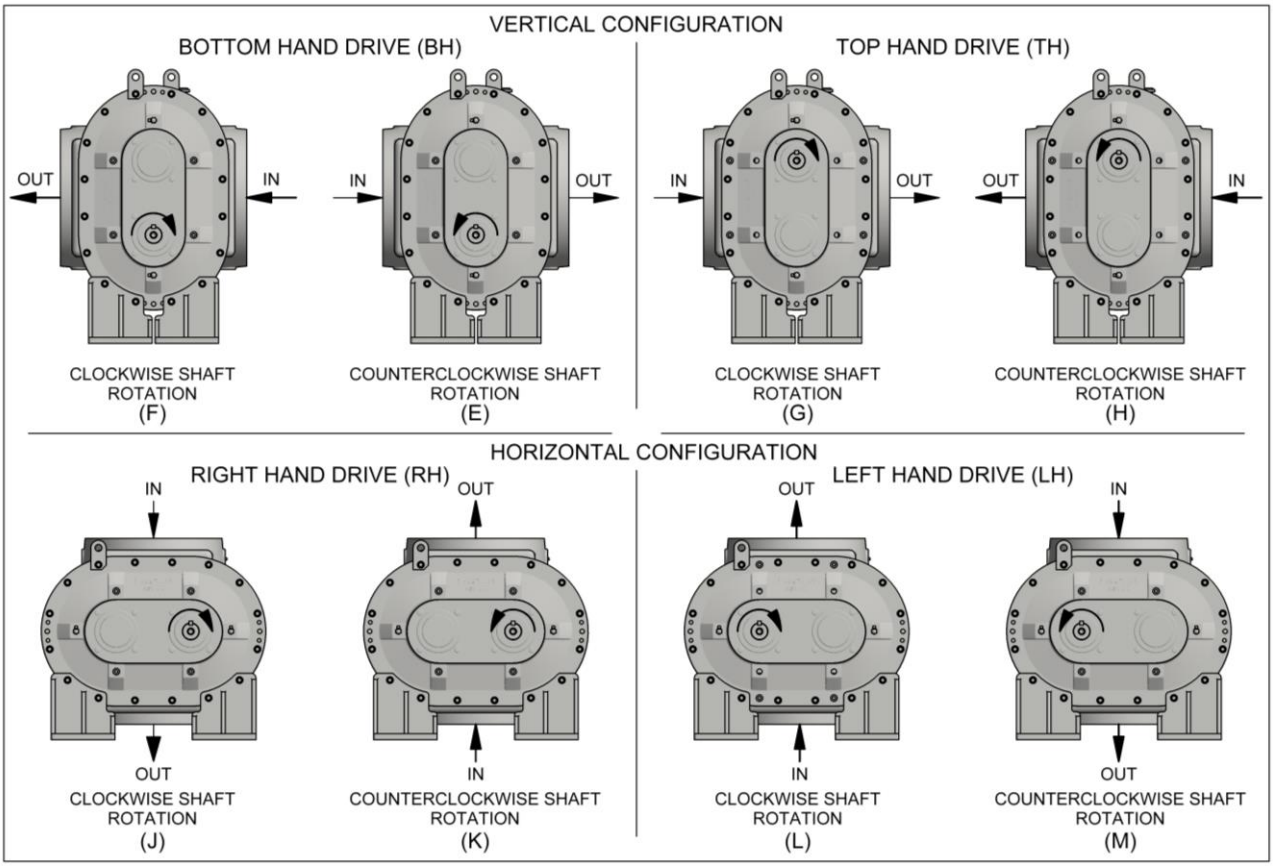
**MOUNTING CONFIGURATIONS**

The blower flex-mount design enables horizontal and vertical mounting configurations with top or bottom hand, right or left hand shaft positioning. The units are center timed allowing rotation in either direction (refer to Figure 2-2). If converting a blower from vertical to horizontal, or horizontal to vertical mounting configuration, additional mounting feet will be required.

**REPOSITIONING THE MOUNTING FEET.**

1. Position the mounting feet to the desired location and snug the cap screw.
2. Place the blower on its feet on a flat surface.
3. Loosen mounting feet cap screws and level unit up. The bench or blower base flatness should be within .002 of an inch.

| NOTICE |
| --- |
| **If the unit is not flat within .002 of an inch, it will be necessary to shim the blower feet at installation.** |




GAF797_T_30 / 00

**FIGURE 2-2 BLOWER MOUNTING CONFIGURATIONS**

**Inlet Filter or Filter-Silencer** – For pressure service handling air, the blower inlet must be protected by a filter of suitable size to allow full flow of air to the blower inlet. The filter must be of adequate efficiency to trap any foreign materials which may be in the general area of the air inlet. If noise is a factor, filter-silencers should be used. A differential pressure indicator is recommended to on the filter for measuring filter life.

**⚠WARNING**

***Rotating components will cause severe injury in case of personal contact. Keep hands away from the blower inlet and discharge ports.***

In choosing a location for the filter, select a source of cool, clean, and dry air with access for maintenance.

For vacuum service, the type of system used and materials being handled will determine the necessity for an in-line filter.

**Couplings** – For direct-coupled units, a flexible type coupling, accurately aligned, should be used between the blower and power unit. A grid type coupling is recommended. Misaligned couplings may cause vibration, additional bearing loads and stresses which will affect life of parts involved. **Do not drive the couplings on shaft**. Check shaft and coupling bore for burrs. Polish the shaft and bore if necessary for proper fit. Fit keys to keyways. Check coupling alignment. Exact alignment will vary with the type of couplings; however total indicator reading (TIR) should not exceed 0.003" [75 µm]. With lubricated or special couplings, follow the manufacturer's instructions for installation and maintenance. Do not use couplings that may cause an axial thrust during operation.

**DRIVE INSTALLATION**

**V-Belt Drive** – Follow normal specifications recommended by the belt manufacturers for installation of belt drive on blowers. To provide the most compact drive, it is suggested that high capacity V-belt drives be used. Blower shaft and power unit shaft should be parallel, with sheaves aligned on shafts so belts run true. Use only matched belt sets and replace belts in complete sets only. Belt tension should be according to manufacturer's recommendations. Slippage can be detected by belt squeal, overheating or loss of speed. A few hours after initial starting with new belts, it is advisable to recheck belt tension and provide tension adjustment as necessary.

**⚠WARNING**

***Over tightening belts leads to heavy bearing loads and premature failure.***

When selecting a V-belt drive, check to be sure the maximum allowable moment limitation is not exceeded. Refer to Figure 2-3 on next page for V-belt drive overhung load calculations. Figure 2-3 applies to V-belt calculations only. Exceeding overhung load limitations may result in rapid blower failure due to removal of all gear backlash. Premature bearing failure and potential shaft breakage may also result. Increasing sheave diameter and belt speed can reduce belt pull.

**NOTICE**

***When a simple V-belt drive is not available, to stay within the maximum allowable moment, a jackshaft V-belt drive is required.***

Belt drives must be carefully aligned. Motor and blower pulleys must be parallel to each other and in the same plane within 1/16 inch [1.6 mm]. Belt tension should be carefully adjusted and belts tightened using a tension meter per belt manufacturer's recommendations.

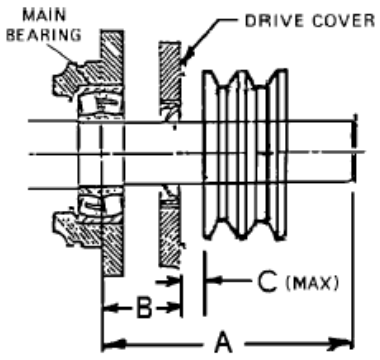
**NOTICE**

**The sheave should be positioned as close as possible to the drive cover. This will reduce the overhung load and extend the bearing life.**

**Synchronous-Belt Drive** – Synchronous belts are not recommended for usage on Gardner Denver positive displacement blowers. Installation of synchronous belts is critical and can result in alignment, tensioning and vibration problems, which contribute to higher than normal loads and stresses on the blowers.

| Gear Diameter (inches) | GREASE SPLASH Dimensions - Inches | | | Maximum Allowable Moment - lbf·in [N·m] |
|---|---|---|---|---|
| | A | B | C (Max) | |
| 6 | 4.08 | 1.14 | .38 | 1788 |

| Gear Diameter (inches) | DUAL SPLASH Dimensions - Inches | | | Maximum Allowable Moment - lbf·in [N·m] |
|---|---|---|---|---|
| | A | B | C (Max) | |
| 6 | 4.08 | 1.14 | .38 | 1788 |




**MAXIMUM ALLOWABLE MOMENT**

**DRIVE SHAFT ILLUSTRATION**

| Z | Ac | Z | Ac | Z | Ac | Z | Ac | Z | Ac | Z | Ac |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.000 | 1.000 | 0.250 | 0.966 | 0.500 | 0.926 | 0.750 | 0.879 | 1.000 | 0.823 | 1.250 | 0.751 |
| 0.025 | 0.997 | 0.275 | 0.962 | 0.525 | 0.922 | 0.775 | 0.874 | 1.025 | 0.816 | 1.275 | 0.742 |
| 0.050 | 0.994 | 0.300 | 0.958 | 0.550 | 0.917 | 0.800 | 0.869 | 1.050 | 0.810 | 1.300 | 0.734 |
| 0.075 | 0.990 | 0.325 | 0.954 | 0.575 | 0.913 | 0.825 | 0.864 | 1.075 | 0.803 | 1.325 | 0.725 |
| 0.100 | 0.987 | 0.350 | 0.951 | 0.600 | 0.908 | 0.850 | 0.858 | 1.100 | 0.796 | 1.350 | 0.716 |
| 0.125 | 0.983 | 0.375 | 0.947 | 0.625 | 0.904 | 0.875 | 0.852 | 1.125 | 0.789 | 1.375 | 0.706 |
| 0.150 | 0.980 | 0.400 | 0.943 | 0.650 | 0.899 | 0.900 | 0.847 | 1.150 | 0.782 | 1.400 | 0.697 |
| 0.175 | 0.977 | 0.425 | 0.939 | 0.675 | 0.894 | 0.925 | 0.841 | 1.175 | 0.774 | 1.425 | 0.687 |
| 0.200 | 0.973 | 0.450 | 0.935 | 0.700 | 0.889 | 0.950 | 0.835 | 1.200 | 0.767 | | |
| 0.225 | 0.969 | 0.475 | 0.930 | 0.725 | 0.884 | 0.975 | 0.829 | 1.225 | 0.759 | | |

$$Z = \frac{(\text{Large Sheave Pitch Diameter} - \text{Small Sheave Pitch Diameter})}{\text{Sheave Center Distance}} \; [Unitless - Use\ inches\ or\ mm]$$

**ARC OF CONTACT FACTORS**

**IMPERIAL CALCULATION (lbf·in):**

$$\boldsymbol{Belt\ Pull\ [lbf]} = \left(\frac{2.5 - Ac}{Ac}\right)\left(\frac{125954 \cdot HP \cdot S.F.}{D \cdot RPM}\right)$$

Where,
Belt Pull = Total belt force on blower shaft [lbf]
Ac = Arc of Contact Factor (Refer to Chart above)
HP = Blower shaft power for Operating Conditions [hp]
S.F. = Drive Service Factor (=1.4 for continuous duty applications)
D = Blower Sheave Pitch Diameter [in]
RPM = Blower Sheave Speed [rpm]

$$\boldsymbol{Shaft\ Moment\ [lbf \cdot in]} = \boldsymbol{Belt\ Pull} \cdot \left(B + C + \frac{W}{2}\right)$$

Where,
Shaft Moment = Total moment on blower shaft [lbf·in]
Belt Pull = Total belt force on blower shaft [lbf]
B = Dimension B from model table above [in]
C = Dimension C from model table above [in]
W = Width of Blower Sheave [in]

**METRIC CALCULATION (N·m):**

$$\boldsymbol{Belt\ Pull\ [N]} = \left(\frac{2.5 - Ac}{Ac}\right)\left(\frac{19083940 \cdot kW \cdot S.F.}{D \cdot RPM}\right)$$

Where,
Belt Pull = Total belt force on blower shaft [N]
Ac = Arc of Contact Factor (Refer to Chart above)
kW = Blower shaft power for Operating Conditions [kW]
S.F. = Drive Service Factor (=1.4 for continuous duty applications)
D = Blower Sheave Pitch Diameter [mm]
RPM = Blower Sheave Speed [rpm]

$$\boldsymbol{Shaft\ Moment\ [N \cdot m]} = \boldsymbol{Belt\ Pull} \cdot \frac{\left(B + C + \frac{W}{2}\right)}{1000}$$

Where,
Shaft Moment = Total moment on blower shaft [N·m]
Belt Pull = Total belt force on blower shaft [N]
B = Dimension B from model table above [mm]
C = Dimension C from model table above [mm]
W = Width of Blower Sheave [mm]

**CALCULATION OF SHAFT MOMENT**

**FIGURE 2-3 V-BELT DRIVE OVERHUNG LOAD CALCULATIONS**

**SAFETY DEVICES –** For all installations the following safety devices are a requirement for safe blower operation.

**Check Valve**
When the blower is used in a pneumatic conveying system, a check valve must be used to prevent backflow of material into the blower. In any system it is a safety device preventing the downstream pressure from discharging through the blower during shutdown periods and causing reverse rotation of the blower. A check valve must be provided for each blower when several blowers are connected to a common manifold.

**Relief Valve**
The relief valve must be installed as close to blower ports as possible. There should be no accessories such as valves, check valves, silencers, etc. between the relief valve and blower ports. It should be set a maximum of 2 PSI [140 mbar] above blower process pressure (1" Hg. [34 mbar] below process pressure in vacuum service).

| **NOTICE** |
| --- |
| **Relief valves should be placed as close as possible to the blower inlet port (vacuum operation) or discharge port (pressure operation).** |

**High Temperature and High Pressure Shutdown** – All blower installations should be protected with a high temperature shutdown switch. The controls should be set to stop the blower when the discharge temperature reaches 350°F [177°C]. In some installations, a high pressure shutdown switch may also be advisable. The sensing element of these controls should be installed as close to the blower discharge as possible.

**INLET PIPING** – During the installation of piping make sure dirt and other foreign materials do not enter blower openings. When inlet piping is used **IT MUST BE CLEAN, AND FREE OF SCALE AND OTHER FOREIGN MATERIALS WHICH COULD ENTER THE BLOWER**. It is suggested that an expansion joint be installed near blower openings to prevent stressing of the blower housing. Support the pipe to relieve weight on the expansion joint and the blower. Make sure the pipe size is adequate for the rated flow and as straight as possible to prevent pressure drop at the blower inlet. Where bends are necessary use long radius fittings. All connections must be air tight.

For vacuum service, an accurate vacuum gauge must be used near the blower inlet to indicate operating vacuum and a suitable vacuum relief valve must be used. A vacuum blower in pneumatic conveying service requires pre-inlet separation and filtering to prevent material carry-over into the blower.

Estimated inlet pipe size is determined as follows:

0 to 10 feet long [0-3 m], use pipe size equal to blower inlet flange size.

10 to 17 feet long [3-5 m], use pipe size larger than blower inlet.

17 to 33 feet long [5-10 m], two pipe sizes larger than blower inlet.

**DISCHARGE PIPING** – In general, the type of system used will govern the piping arrangement. However, the following suggestions should be followed for blower protection and efficiency.

An expansion joint should be installed as close to the blower opening as possible to protect the blower housing from stresses. Where a flexible connection is not possible, the weight of the rigid connection and piping must be separately supported, and thermal pipe growth must be accommodated. All pipe connections should be square and even to prevent distortion from misalignment. Piping strain and misalignment stress will distort the blower during operation, resulting in loss of critical internal clearances. Loss of internal clearances will result in serious machine damage and premature, unwarrantable blower failure.

An accurate pressure gauge must be provided near the blower discharge to indicate operation pressure. If noise level is a factor, a discharge silencer should be used. The discharge line should be as straight as possible. Where bends are necessary, use long radius fittings. Provision for condensate drainage at the lowest point in the piping may be required.

**SILENCERS –** The gear pitch line velocity is typically above the transition speed for inlet and discharge silencers (unless operating near minimum speed). Combination chamber-absorptive silencers are recommended for effective noise attenuation.

**VENTILATION –** If the blower is to operate in a housing or enclosure, proper ventilation must be provided for adequate blower cooling. Cooling air should be taken from outside the enclosure. The enclosure ambient temperature should be within the limits specified in Figure 2-1.

## SECTION 3
## MAINTENANCE

**GENERAL –** Blower efficiency and life depend on the quality of maintenance the blower receives. Maintenance must be done regularly and with care. Clean work space, tools, solvents and wiping rags are necessary to avoid transferring dirt into the unit. A maintenance chart listing each blower and scheduling regular maintenance of the unit is valuable. A good program, well carried out, will insure long trouble-free service from the blower. Figure 3-1 shows recommended maintenance schedules for different duty cycles.

| | **RECOMMENDED FREQUENCY**<br>**These intervals are general recommendations and should be adjusted for actual site conditions.** | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Daily** | | | **Weekly** | | | **3 Weeks** | | | **6 Weeks** | | | **12 Weeks** | | | **24 Weeks** | | | **36 Weeks** | | | **52 Weeks** | | | | | |
| **Duty Cycle:**<br>**(Note 1)** | Light | Standard | Extreme | Light | Standard | Extreme | Light | Standard | Extreme | Light | Standard | Extreme | Light | Standard | Extreme | Light | Standard | Extreme | Light | Standard | Extreme | Light | Standard | Extreme | | | |
| **Bare Blower** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lube level | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | |
| Lube Sample (Note 2) | | | | | | ■ | | | | ■ | ■ | | | | | | | | | | | | | | | | |
| Lube change (Note 3) | | | | | | | | | | | | | | | ■ | | | | | ■ | | ■ | ■ | | | | |
| Lube flush (Note 4) | | | | | | | | | | | | | | | ■ | | | ■ | | | | ■ | ■ | ■ | | | |
| Lube Temperature | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | |
| Discharge Temperature | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | |
| Discharge Pressure | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | |
| Vibration | | | | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | | |
| **System Components**<br>**(Note 5)** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Air filter Inspect | | | | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | |
| Air filter Change (Note 6) | | | | | | | | | | | | ■ | | | | | | | | ■ | | ■ | | | | | |
| Expansion Joint Inspect | | | | | | | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | |
| Silencer Inspect | | | | | | | | | | | | | | | | | | ■ | | | | ■ | ■ | | | | |
| Check valve inspect | | | | | | | | | | | | | | | | | | ■ | ■ | ■ | | | | | | | |
| Check valve Test | | | | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | | |
| PRV inspect | | | | | | | | | | | | | | | | | | | | | | ■ | ■ | ■ | | | |
| PRV Test | | | | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | | |

**NOTES:**

**1)** Duty Cycle:
Light: 8-10hr day 40hr week
Standard:8-24hr day 40-168hr week
Extreme: 8-24hr day 40-168hr week (Harsh Environments: High/Low Ambient Temperature, High Humidity, Altitude, Contaminates, Cycling Pressure/Flow)

**2)** Lube Sample: A lube sampling program is the recommended method of determining lubricant life.

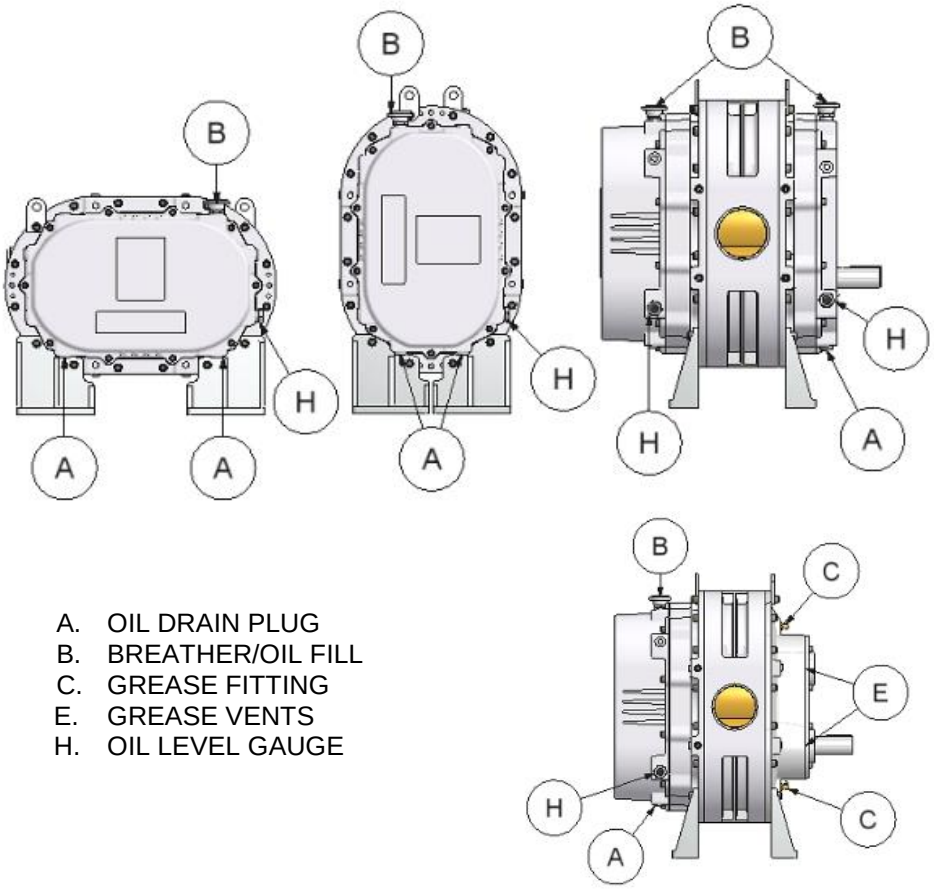
**3)** Lube Change: The lube change intervals are based on Aeon PD lubricants.
Minimum 52 week oil change frequency may vary dependent upon process or environmental conditions and lube sample results
Duty Cycle may not accrue 6000hrs at 52 weeks. Extreme Duty may require increased frequency dependent upon lube sample results

**4)** Lube Flush: Periodic cleaning of lube sumps is required to remove accumulated contaminates
Extreme Duty may require increased frequency dependent upon Lube Sample results

**5)** System Components: System components are not typically supplied by Gardner Denver.
Contact the system component provider or packager for appropriate service intervals.

**6)** Air Filter Change: The air filter change interval is dependent upon environmental conditions and contamination.
Extreme Duty may require increased frequency dependent upon filter element differential pressure

**FIGURE 3-1 RECOMMENDED MAINTENANCE SCHEDULE**




A. OIL DRAIN PLUG
B. BREATHER/OIL FILL
C. GREASE FITTING
E. GREASE VENTS
H. OIL LEVEL GAUGE

**FIGURE 3-2 LUBRICATION**

**DRIVE END LUBRICATION (For Grease, Splash Lube Blowers)**

Drive end bearings are grease lubricated at the factory with Lithium Complex based grease. **For re-lubrication, use Gardner Denver AEON PD Grease, Part Number 28H283.** AEON PD Grease is a high temperature, high performance grease that is formulated with anti-wear additives to provide superior service under the severe operating conditions of positive displacement blowers. It contains rust inhibitors which provide excellent protection against rust and corrosion.
If you choose not to use AEON PD Grease, select compatible base grease. The grease should be NLGI Grade 2 EP, contain rust inhibitors, and be suitable for blower discharge temperatures up to 350°F (177°C). Completely clean or purge the factory-filled grease from the blower. **Do not mix different types of grease as they may not be compatible. Substitutions may cause early bearing failure.**

Re-grease bearings every 500 hours of operation. Lubricate each bearing through the grease fittings located at C in Figure 3-2 (2 places). When re-greasing, the old grease will be forced out of the vents (E in Figure 3-2). To prevent damage to seals, these vents must be open at all times.

| |
|---|
| **⚠WARNING** |
| **Do not over grease bearings as this could cause premature bearing failure.** |

**DRIVE END LUBRICATION (For Dual Splash Lube Blowers)**

At the drive end, the bearings are lubricated by the slinger, which must be on the lowest rotor when in a vertical configuration.

Approximate oil sump capacities are listed in Figure 3-2.

| NOTICE |
| --- |
| **Machines are shipped without oil in the sump. Do not operate before adding lubricant.** |

**Lubrication Instructions**

Filling procedure
Refer to Figure 3-2, page 20. Remove the breather (B) from the drive cover. Add oil to the drive sump until oil reaches the center of the oil level gauge (H). Secure breather (B) in the drive cover.

Add fresh oil as required to maintain proper level. The oil level should be at the middle of the sight glass when the machine is not operating. Refer to Figure 3-3 for approximate oil capacities.

**Legend "T" Series, Grease-Splash Lube Blower Oil Capacities**

| Approximate Sump capacity in pints or ounces | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| | | Vertical Configuration | | | Horizontal Configuration | | |
| Series | Gear Diameter (in) | Gear End | Drive End | Total | Gear End | Drive End | Total |
| 6 | 6 | 1.8 PT (29 oz.) | Grease | 1.8 PT (29 oz.) | 4.3 PT (68 oz.) | grease | 4.3 PT (68 oz.) |

Note: Quantities are for purchase estimates only.

**Legend "T" Series, Dual Splash Lube Blower Oil Capacities**

| Approximate Sump capacity in pints or ounces | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| | | Vertical Configuration | | | Horizontal Configuration | | |
| Series | Gear Diameter (in) | Gear End | Drive End | Total | Gear End | Drive End | Total |
| 6 | 6 | 1.8 PT (29 oz.) | 1.1 PT (17 oz.) | 2.9 PT (46 oz.) | 4.3 PT (68 oz.) | 2 PT (32 oz.) | 6.3 PT (100 oz.) |

Note: Quantities are for purchase estimates only.

**FIGURE 3-3 APPROXIMATE OIL CAPACITIES**

**GEAR END LUBRICATION (For Grease, Splash Lube and Dual Splash Lube Blowers)**
At the gear end, the timing gear teeth are lubricated by being partially submerged in oil. The gear teeth serve as oil slingers for gear end bearings.

Approximate oil sump capacities are listed in Figure 3-3.

**⚠WARNING**

**Do not overfill as this will tend to cause excessive heating of the gears and may damage the unit.**

**NOTICE**

**Machines are shipped without oil in the sump. Do not operate before adding lubricant.**

## LUBRICATION INSTRUCTIONS

**Filling procedure -** Refer to Figure 3-2, page 20. Remove the breather (B) from the gear cover. Add oil to the gear case until oil reaches the center of the oil level gauge (H). Secure breather (B) in the gear cover.

Add fresh oil as required to maintain proper level. The oil level should be at the middle of the sight glass when the machine is not operating. Refer to Figure 3-3, page 21, for approximate oil capacities.

## RECOMMENDED LUBRICANT

AEON PD Synthetic Blower Lubricant is recommended. Refer to Figure 3-4 for AEON PD, AEON PD-FG (Food Grade) and AEON PD-XD (Extreme Duty) part numbers. Order AEON PD from your Gardner Denver Distributor or call Gardner Denver directly.

| Convenient Package Sizes | AEON PD Part No. | AEON PD-FG Part No. | AEON PD-XD Part No. |
|---|---|---|---|
| 1 quart | 28G23 | 28H97 | 28G46 |
| Case 12 quarts | 28G24 | 28H98 | 28G47 |
| 1 gallon | 28G40 | 28H333 | 28G42 |
| Case 6 gallons | 28G41 | 28H334 | 28G43 |
| 5 gallon pail | 28G25 | 28H99 | 28G44 |
| 55 gallon drum | 28G28 | 28H100 | 28G45 |

**FIGURE 3-4 AEON PD SYNTHETIC LUBRICANT**

AEON PD is formulated especially for positive displacement blower service to provide maximum blower protection at any temperature. One fill of AEON PD will last a minimum of 4 times longer than a premium mineral oil. Refer to Figure 3-3.

| | | Ambient Temperatures | | | |
|---|---|---|---|---|---|
| | | Less than 10° F | 10°F to 32°F | 32°F to 90°F | Greater than 90°F |
| Blower Discharge Temperature | Less than 32°F | AEON PD AEON PD-FG | AEON PD AEON PD-FG | | |
| | 32° F to 100° F | AEON PD AEON PD-FG | AEON PD AEON PD-FG | AEON PD AEON PD-FG | |
| | 100° F to 225°F | AEON PD AEON PD-FG | AEON PD AEON PD-FG | AEON PD AEON PD-FG | AEON PD AEON PD-FG |
| | 225° F to 300° F | AEON PD AEON PD-FG | AEON PD AEON PD-FG | AEON PD AEON PD-FG | AEON PD XD |
| | Greater than 300°F | | | AEON PD XD | AEON PD XD |

**FIGURE 3-5 SYNTHETIC LUBRICANT CHART**

AEON PD Synthetic Lubricant should be drained after 6000 hours of operation. Re-fill with fresh AEON PD oil. If mineral oil is used, perform the above oil change maintenance every 1500 hours. Recommended service intervals are for normal blower operating conditions. Severe operating conditions may warrant more frequent oil changes. Laboratory analysis of lubricant should be used to help determine the optimum oil change interval.

For best performance and equipment protection, use AEON PD Synthetic Lubricant, which has been specifically formulated for positive displacement blowers. If you choose not to use AEON PD Synthetic Blower Lubricant, select an oil with rust and oxidation inhibitors, anti-foam additives, and the viscosities listed in Figure 3-6. Do not use an oil that contains EP additives.

| **NOTICE** |
| --- |
| **Flush the oil whenever a change is made from one type of oil to another.** |

Drain the current lubricant as thoroughly as possible. Refill with the new lubricant. Fill to normal level of the blower, which is at the middle of the sight glass when the machine is not operating. Run the blower for one hour. Shut off the blower and drain the lubricant completely. Refill the blower again with the new lubricant.

| **Blower Discharge Temperature** | **Ambient Temperature** | | | |
| --- | --- | --- | --- | --- |
| | **Less than 10°F*** | **10°F to 32°F**** | **32°F to 90°F** | **Greater than 90°F** |
| Less than 32°F (0°C) | ISO 100 | ISO 100 | | |
| 32°F to 100°F (0°C to 38°C) | ISO 100 | ISO 100 | ISO 150 | |
| 100°F to 225°F (38°C to 105°C) | ISO 100 | ISO 100 | ISO 150 | ISO 220 |
| 225°F to 300°F (105°C to 149°C) | ISO 150 | ISO 150 | ISO 220 | ISO 220 |
| Greater than 300°F (149°C) | | | *** | *** |

***** For ambient temperatures less than 10°F, but not less than –20°F, the use of oil sump heaters, heated enclosures or synthetic lubricant is required.

****** For ambient temperatures 10°F to 32°F, the use of oil sump heaters, heated enclosures or synthetic lubricant is recommended.

******* The lubricant viscosity must be 70 SUS minimum at the lubricant operating temperature.

The pour point of the lubricant should be at least 5° to 10°F below the minimum expected ambient temperature.

For continuous operation, where the lubricant temperature exceeds 200°F, synthetic lubricant is recommended.

**FIGURE 3-6 LUBRICATION RECOMMENDATION**

## MAINTENANCE

**Air Filter and Filter-Silencer** – When the outside surface of the element appears to be evenly coated with dirt, it should be replaced. A differential pressure indicator can be used to determine filter status as well.

**DISCHARGE SILENCER** – A drain may be provided in the silencer at the lowest point for draining condensate. Draining intervals will depend upon humidity conditions and must be established by the user.

## SEALS

**PERIODIC INSPECTIONS** – A well-organized maintenance program will provide for periodic inspection of the blower, drive and components. These inspections may prevent major repair and downtime.

1. Observe the blower for vibration, heating, noise, oil seal leaks, and excessive shaft air leaks.
2. Check for proper operation of the filters, coupling, drive, power unit, relief and check valves, gauges and other controls.
3. Disconnect the drive and turn the blower by hand to check for drag, tight spots, bearing wear (radial and axial) and gear backlash. Rotation should be free with no indication of drag or metallic interference.
4. Inspect the interior through the inlet or discharge port for cleanliness, corrosion or parts contact.

**⚠WARNING**

**Rotating components will cause severe injury in case of personal contact. Keep hands away from the blower inlet and discharge ports.**

5. Check tightness of all screws and bolts.

**VIBRATION MONITORING –** All Sutorbilt® Models are vibration tested at the factory to ensure blower quality. The total vibration measured at the factory may be different from the site installation. Vibration is dependent on many factors including foundation construction, shaft alignment, piping configuration, drive type, and operating conditions. High vibration at commissioning may indicate an installation issue or system resonance. Increasing vibration levels over time typically indicate the onset of a failure mode. Periodic or continuous vibration readings can be used to detect problems early.

## SOME COMMON CAUSES OF BLOWER FAILURE

1. Poor air filter maintenance or incorrect selection.
2. Inadequate lubrication (wrong, dirty or low oil).
3. Backflow of materials into the blower.
4. Discharge pressure or inlet vacuum above blower rating.
5. Blower speed below minimum rating.
6. Blower speed too low for discharge pressure or inlet vacuum.

**TROUBLESHOOTING -** shows possible causes and solutions for problems that may be encountered during operation.

| Problem | Possible Causes | Solution |
|---|---|---|
| Excessive Discharge Temperature | Restricted inlet flow | Clean air filter. Correct any restrictions. |
| | Excessive discharge pressure | Reduce discharge pressure. Correct any restrictions. |
| | Operation below allowable speed (pressure dependent) | Increase speed. Reduce pressure or vacuum. |
| | Worn clearances | Rebuild by factory trained personnel. |
| Excessive Oil Sump Temperature or Bearing Temperature | Incorrect oil level | Restore oil level to recommended level. |
| | Excessive bearing load | Reduce belt tension. Check shaft coupling alignment. |
| | Worn bearings | Rebuild by factory trained personnel. |
| Low Air Flow | Restricted inlet flow | Clean air filter. Correct any restrictions. |
| | Slipping Belts | Tighten Belts |
| | Low speed | Check speed with tachometer or strobe. |
| | Excessive discharge pressure | Reduce discharge pressure. Correct any restrictions. |
| | Worn clearances | Rebuild by factory trained personnel. |
| No Air Flow | Wrong rotation direction | Correct rotation direction. |
| Oil Leak | Plugged breathers | Clean sump breathers |
| | Too much oil in sump | Reduce oil level to recommended level. |
| | Worn oil seal | Rebuild by factory trained personnel. |
| Knocking, Rotor Tip Drag, Contact | Housing distortion | Properly shim feet to foundation. Correct piping induced strains. |
| | Excessive pressure or vacuum | Reduce operating pressure or vacuum. Check relief valve. |
| | Excessive discharge temperature | Remove cause. |
| | Bearing failure | Rebuild by factory trained personnel. |
| | Incorrect timing | Rebuild by factory trained personnel. |
| Excessive Power Consumption | Speed high | Reduce speed |
| | Pressure or vacuum high | Remove cause |
| | Knocking, Rotor Tip Drag, Contact | Remove cause |
| | Worn clearances | Rebuild by factory trained personnel. |
| Excessive Vibration | Misalignment | Align couplings and belt drives |
| | Knocking, Rotor Tip Drag, Contact | Remove cause |
| | Unbalanced Rotors | Make sure rotors are free of scale and process material. |
| | Loose Blower or Driver Bolts | Check all mounting bolts and tighten as necessary. |
| | Piping resonance. | Correct piping configuration |
| | Foundation resonance | Increase rigidity and mass of foundation. |
| | Worn bearings or gears | Rebuild by factory trained personnel. |

**FIGURE 3-7 TROUBLESHOOTING TABLE**

## SECTION 4
## OPERATION

Future operating problems can be avoided if proper precautions are observed when the equipment is first put into service.

Before starting under power, the blower should be turned over by hand to make certain there is no binding or internal contact.

Each blower has limits on pressure differential, running speed, and discharge temperature which must not be exceeded. These limits are shown in the following tables and text in section 4.

**GENERAL** – A new blower from the factory must be checked and serviced before operation. The blower must be lubricated and operated according to the following instructions. Blower failure can be caused by operation at above rated pressure or below rated minimum speed. Both cause excessive discharge temperature and seizure of rotating parts.

**STARTING BLOWER** – Start at reduced speed and no-load if possible. If speed is fixed, start without load by bleeding discharge to atmosphere. Starting should be smooth and free of vibrations. After initial no-load start, and operation is satisfactory, apply load gradually until maximum operating conditions are attained. **BE SURE OPERATING CONDITIONS ARE WITHIN BLOWER RATINGS**. Maintain a close check for severe vibrations, unusual noise, leaks and undue heating. The blower will gradually heat up due to compression, but after a reasonable length of time, temperature will stabilize. With very cold ambient conditions, warm up blower at no-load before going into full load service.

If the blower is used as part of a specific system, check the system's manual for any procedures that may be necessary when starting the blower.

**PRESTART CHECK** (For New or Overhauled Blower), see "Blower Startup Checklist" on page 30.

**ROTATION** – Rotation is clockwise when facing the drive shaft. An arrow indicating rotation is cast on the blower end cover near the drive shaft.

**DAILY CHECK**

1. Air filter tight, clean and serviced.
2. Proper oil level in oil sumps.
3. Observe pressure.
4. Relief valve functions.
5. Blower turns freely.

|  |
|---|
| **Operating beyond the specified operating limitations will result in damage to the unit.** |

It is important that the pressures and temperatures are measured directly at the ports of the blower to avoid error that may be caused by intervening pipe runs, fittings, etc.

Relief valves must be used to protect against excessive pressure or vacuum conditions. These valves should be tested at initial startup to be sure they are adjusted to relieve at or below the maximum pressure differential rating of the blower.

| NOTICE |
|---|
| **Relief valves should be placed as close as possible to the blower inlet or discharge.** |

In some instances, pressure may be relieved at a lower point than the blower maximum in order to protect the motor or the equipment served by the blower.

Discharge temperature switches are recommended to protect against excessive inlet restriction or inlet temperatures. Check valves in the discharge line on pressure blowers and in the inlet line on vacuum blowers are recommended to protect the blower from motoring backwards when shut down under load.

**LIMITATIONS**

For information regarding limitations, refer to Figure 4-1 below,

| MAXIMUM / MINIMUM OPERATING LIMITATIONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| **SIZE** | **RPM** | **MIN RPM VERT** | **MIN RPM HORIZ.** | **MAX PRESSURE PSI.** | **MAX VAC IN HG** | **MAX. TEMPERATURE RISE °F** | **MAX. DISCHARGE TEMPERATURE °F** |
| 6L | 2350 | 891 | 637 | 7 | 14 | 160 | 260 |
| 6M | 2350 | 891 | 637 | 14 | 16 | 180 | 325 |
| 6H | 2350 | 891 | 637 | 15 | 16 | 200 | 340 |

**DO NOT EXCEED THESE LIMITS**

| NOTICE |
|---|
| **Blower speed, line losses, elevation, and increased inlet temperatures will affect the maximum operating limitations. The minimum RPM for the blowers is based on lubrication only. The blowers may only be operated down to the minimum RPM, when the temperature rise and discharge temperature are below the maximum limitations as shown.** |

**FIGURE 4-1 OPERATING LIMITATIONS**

**TYPE OF SERVICE** – The blower can be operated in either pressure or vacuum service.

**Pressure** – Never operate the blower above the maximum pressure shown in Figure 4-1. Excessive pressure may cause overheating and blower failure, it is therefore most important to have an accurate pressure gauge in the discharge line as close to the blower discharge as possible. Reduced speeds have a direct effect on allowable pressure (Figure 4-2, page 28). A bypass valve to bleed air from the discharge to atmosphere may be used to control the pressure. **NEVER** reduce the blower speed to maintain a certain pressure before it is determined if the reduced speed is adequate for that pressure. An accurate pressure gauge must be maintained

**Vacuum** – Do not operate the blower above the maximum vacuums shown in Figure 4-1, or below the minimum speed shown in Figure 4-3, page 28. All vacuum ratings are based on standard atmospheric discharge. An accurate vacuum gauge and vacuum relief valve must be used as close to the blower inlet as possible.

**ALTITUDE** – Maximum discharge pressure ratings and inlet vacuum ratings, shown in Figure 4-1, are decreased with operation at higher altitudes, see Figure 4-2. Above 5000 feet [1525 m], consult the nearest Gardner Denver Office.

| Altitude (Feet Above Mean Sea Level) | Allowable Pressure or Vacuum (% of Rating) |
|---|---|
| 0 [0 m] | 100.0% |
| 1000 [305 m] | 96.6% |
| 2000 [610 m] | 93.2% |
| 3000 [915 m] | 89.8% |
| 4000 [1220 m] | 86.4% |
| 5000 [1525 m] | 83.0% |

**FIGURE 4-2 ALTITUDE, PRESSURE/VACUUM RATING**

Example 1: 6LS, Altitude 4000 ft. [1220 m].
Maximum pressure rating is 7 psig [483 mbar] at sea level from Figure 4-2.
Allowable pressure at 4000 ft. is 86.4% of rating: 0.864 * 7 = 6.05 psig [417 mbar].

Example 2: 6HS, Altitude 5000 ft. [1525 m].
Maximum vacuum rating is 16 inches of mercury [540 mbar] at sea level from Figure 4-2.
Allowable vacuum at 4000 ft. is 83.0% of rating: 0.83 * 16 = 13.28 inches of mercury [450 mbar]

**SPEED** – Refer to Figure 4-1, page 27, for maximum and minimum speeds. Never operate the blower below the minimum or above the maximum speed shown. There is a definite relationship between blower speed, discharge pressure and/or inlet vacuum, and the resulting discharge air temperature. Reduced speed at high pressure or vacuum can cause excessive heating which may result in rapid blower failure. For engine-driven units provide an accurate speed indicator.

Examples of minimum allowable speed at given pressures or vacuums for vertical units are listed in Figure 4-3, as speed is reduced, pressure or vacuum must also be reduced.

EXAMPLE: Using a 6M blower, operating against 14 PSIG [965 mbar], minimum allowable speed is 1185 RPM.

| Model | Minimum Speed (RPM) – Pressure | | |
|---|---|---|---|
| | Up to 7 PSIG [483 mbar] | 14 PSIG [965 mbar] | 15 PSIG [1034 mbar] |
| 6L | 891 | - | - |
| 6M | 891 | 1185 | - |
| 6H | 891 | 1381 | 1479 |

| Model | Minimum Speed (RPM) - Vacuum | |
|---|---|---|
| | Up to 12” Hg. [406 mbar] | 16” Hg. [542 mbar] |
| 6L | 891 | - |
| 6M | 891 | 1381 |
| 6H | 891 | 1479 |

**FIGURE 4-3 MINIMUM SPEED, BASED ON PRESSURE OR VACUUM**

## NOTICE

**Blower speed, line losses, elevation, and increased inlet temperatures will affect the maximum operating limitations.**

**⚠WARNING**

**Do not continue to run a blower that is overheating. Check the blower for damage before restarting.**

Lubricating oil temperature will increase with increasing discharge air temperature. Oil temperature in the discharge end sump will exceed that in the inlet end sump. Oil sump temperatures at the discharge end in the 200–250°F [93-121°C]. range are not uncommon.

**STOPPING BLOWER** – Where possible, reduce the system pressure to zero gauge before stopping the blower. To prevent backflow of foreign material into the blower on shutdown, provide a check valve in the discharge line.

On engine-driven units, idle the engine for a few minutes prior to shutdown

**EMERGENCIES** – In event of system failures, shutdown the blower immediately. Inspect the blower for foreign material backflow. If materials are found inside the blower housing, a thorough cleaning is necessary before restarting.

**⚠WARNING**

**Do not operate a blower which is noisy, vibrating, or heating excessively.**

**SAFETY PRECAUTIONS**

1. Do not operate blower with open inlet or outlet port.
2. Do not exceed specified vacuum or pressure limitations.
3. Do not operate above or below recommended blower speed range.
4. Blower is not to be used where non-sparking equipment is specified.
5. Do not operate without belt guard or coupling shield.

**⚠WARNING**

**Do not exceed sheave or coupling manufacturer's rim speed limit.**

6. The blower and blower discharge piping may be extremely hot and cause skin burns on contact.

## BLOWER STARTUP CHECKLIST

This startup procedure should be followed during the initial installation and after any shutdown periods or after the blower has been worked on or moved to new location. It is suggested that the steps be followed in sequence and checked off (√) in the boxes provided.

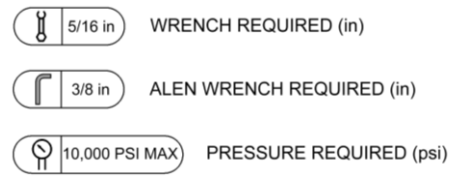
- ☐ 1. Check the unit and all piping for foreign material and clean if required.
- ☐ 2. Check the flatness of the feet and the alignment of the drive. Feet that are bolted down in a bind can cause housing distortion and internal rubbing. Misaligned V-drives can cause the rotors to rub against the head plates and cause a reduction in the volumetric efficiency of the unit. Misaligned couplings can ruin bearings.
- ☐ 3. If the blower is V-belt driven, check the belt tension and alignment. Over-tensioned belts can remove gear backlash and cause blower destruction. They also create heavy bearing/shaft loads which lead to premature failure.
- ☐ 4. Be sure adequate drive guards are in place to protect the operator from severe personal injury from incidental contact.
- ☐ 5. Check the unit for proper lubrication. Proper oil level cannot be over-emphasized. Too little oil will ruin bearings and gears. Too much oil will cause overheating and can ruin gears and cause other damage.
- ☐ 6. Turn the drive shaft by hand to be certain the rotors do not bind.
- ☐ 7. “Jog” the unit with the motor a few times to check that rotation is in the proper direction, and to be certain it turns freely and smoothly.
- ☐ 8. Start the unit and operate 15 minutes at no load. During this time, check for hot spots and other indications of interference.
- ☐ 9. Apply the load and observe the operation of the unit for one hour. Check frequently during the first day of operation.
- ☐ 10. If malfunctions occur, do not continue to operate. Problems such as knocking rotors can cause serious damage if the unit is operated without correction.

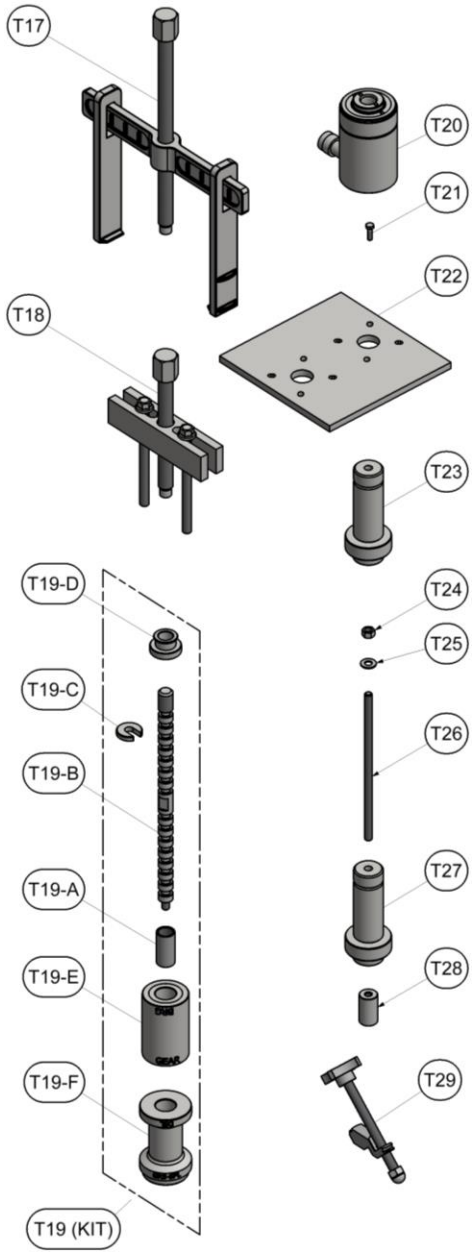
## TOOLS

| | | |
|---|---|---|
| | Grease or Light Oil | |
| | Loctite 243 (Thread Sealant) | |
| T1 | Nylon Wedge | |
| T2 | Center Punch | |
| T3 | Punch | |
| T4 | Ball Peen Hammer | |
| T5 | Ratchet | |
| T6 | Torque Wrench | |
| T7 | Hex Key Socket Set, 3/8” Drive (SAE) | |
| T8 | Hydraulic Press with Pressure Gauge | |
| T9 | Depth Micrometer | |
| T10 | Feeler Gauges (1/2” x 12”) 0.004” Thickness | |
| T11 | Feeler Gauges (1/2” x 12”) 0.009” Thickness | |
| T12 | Feeler Gauges (1/2” x 12”) 0.012” Thickness | |
| T13 | Feeler Gauges (1/2” x 12”) 0.016” Thickness | |
| T14 | Feeler Gauges (1/2” x 12”) 0.019” Thickness | |
| T15 | Pliers or Hook Tool | |
| T16 | (2) Blocks of Wood (Approx. 3-1/2” x 3-1/2” x 24”) | |
| T17 | (2) Two Jaw Puller | |
| T18 | Gear Puller Assembly – Includes all of the following items: | |
| | T18-A Crossbar | |
| | T18-B Forcing Screw | |
| | T18-C (2) Puller Screws | |
| T19 | Pull Rod & Driver Kit | GD P/N: 318GAF074 |
| | Includes all of the following items: | |
| | T19-A Coupling, Pull Rod to Rotor Shaft | |
| | T19-B Pull Rod/Screw Assembly | |
| | T19-C “C” Washer | |
| | T19-D Cap | |
| | T19-E Driver, Gear/Bearing (Gear End) | |
| | T19-F Driver, Bearing (Drive End) | |
| T20+ | Hollow Hydraulic Ram with Pressure Gauge | GD P/N: TEN001154 |
| T21 | (4) Screws (for Puller Plate mounting) | GD P/N: 75A10Z |
| T22 | Puller Plate | GD P/N: 336GAF074 |
| T23 | Driver, Lip Seal | GD P/N: 333GAF074 |
| T24 | Nut | GD P/N: 50AQ5 |
| T25 | Washer | GD P/N: 95W49 |
| T26 | Threaded Rod | GD P/N: 79L231 |
| T27 | Driver, Mechanical Seal | GD P/N: 335GAF074 |
| T28 | Coupling, Pull Rod to Rotor Shaft | GD P/N: 338GAF074 |
| T29 | Select Rotor Lock Tool from below as required | |
| | 6H (less feeler gauge) | GD P/N: 319GAF074 |
| | 6M (less feeler gauge) | GD P/N: 320GAF074 |
| | 6L (less feeler gauge) | GD P/N: 320GAF074 |
| | 6MQ (less feeler gauge) | GD P/N: 322GAF074 |
| | Master Tool Kit (Includes all four) | GD P/N: 300GAF6031 |

+ Enerpac hydraulic tool T20 sold separately.
Must be used with a hand pump or electric pump.

**KEY SYMBOLS USED**




GAF797_T_01 / 00

## DISASSEMBLY INSTRUCTIONS

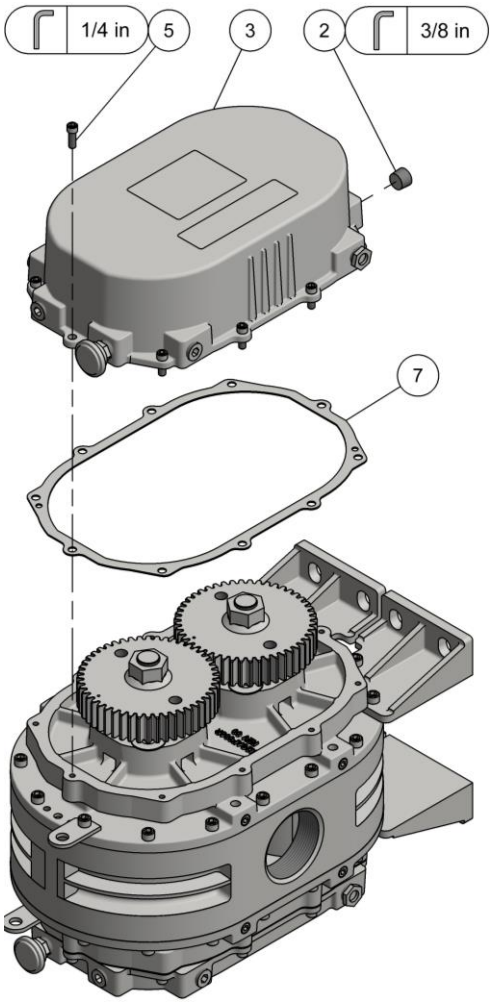
| NOTICE |
| --- |
| **Numbers in parentheses ( ) refer to key numbers in assembly drawings on pages 56 & 58.** |

## IMPORTANT: MARK ALL PARTS WITH A CENTER PUNCH SO THEY CAN BE REASSEMBLED IN THE SAME POSITION (IMPELLERS, HEADPLATES, AND GEARS)

| NOTICE |
| --- |
| **The cover and gear headplate gasket tends to bond tightly to both surfaces. After socket head bolt removal, it is sometimes necessary to take a ball peen hammer and a blunt chisel and drive off the cover.** |

### 5-1 Gear Cover Removal

- Drain oil by removing plug (2) from gear end cover (3).
- **NOTE:** For DSL units, repeat previous step to drain oil on drive end.
- Remove gear cover (3) by removing screws (30).
- Remove gasket (7).




GAF797_T_02 / 00

## 5-2 Check Gear Backlash (Undamaged Gears Only)

- If the timing gears appear undamaged, the gear backlash must be checked to see if the gears can be salvaged.
- Mount a magnetic base dial indicator on gear headplate (see Figure 5-1).
- Lock one Impeller stationary by wedging a feeler gauge between the impeller and the headplate.
- Place the tip of the indicator at the center of the contact surface on a tooth of the gear on the free shaft.
- Rock the impeller back and forth by hand and read the total rotational movement to the nearest 0.0005 inches. Do this at four gear mesh positions 90° apart.
- Permissible gear backlash 0.002/0.003 inches.

| NOTICE |
| --- |
| **If backlash is above the specified limit, the gears are not necessarily unusable. Excessive play could be caused by worn bearings.** |

- If timing gears appear to be reusable, match mark timing gear tooth mesh by making small punch marks on the ends of meshing gear teeth with a pin punch and hammer (see Figure 5-2). The impeller tip to valley (throat) blower reassembly

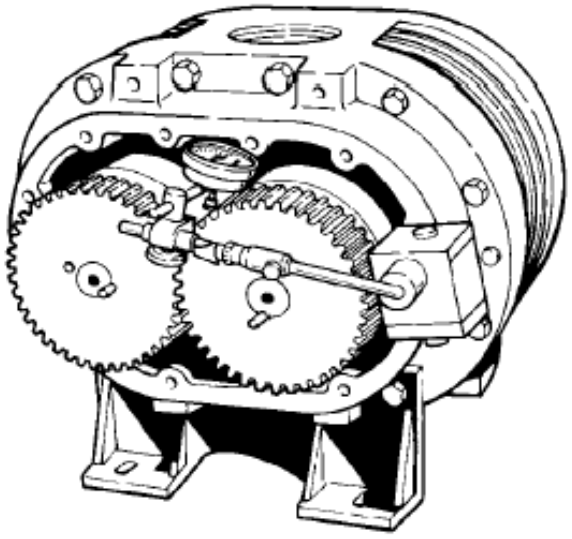


**FIGURE 5-1**

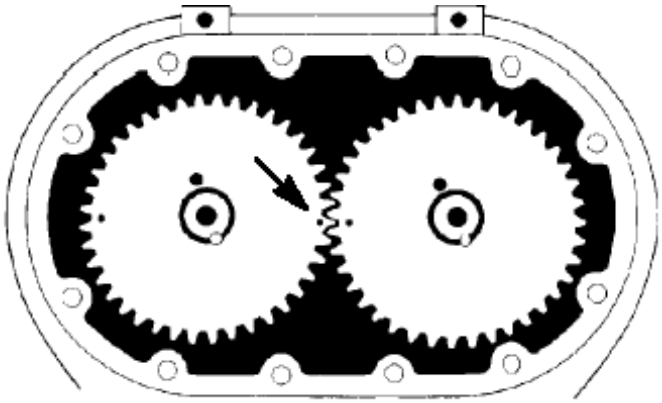
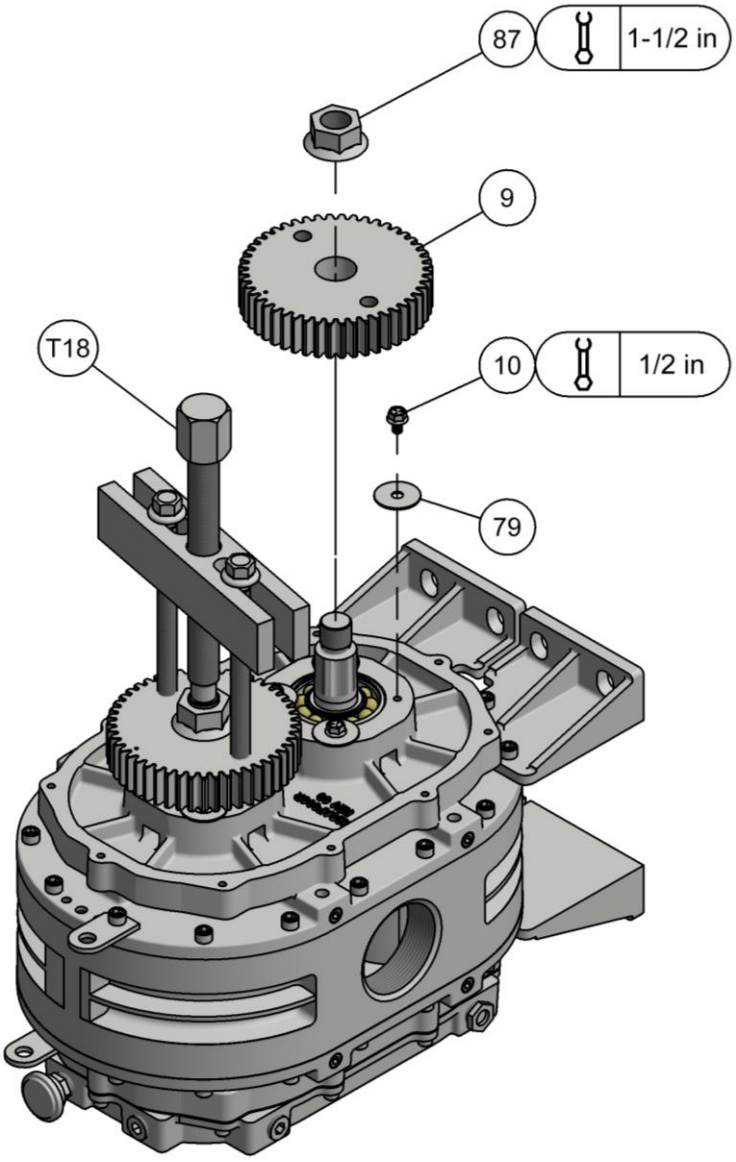


**FIGURE 5-2**

## 5-3 Gear Removal

- Loosen flanged nuts (87) so that they are flush with end of shaft by placing a nylon wedge (t1) or shop rag between gears to stop rotation while loosening flanged nuts.
- Install gear puller (T9) as shown.
- Loosen gear (9) by using a ratchet to tighten forcing screw pressing against shaft.
  **(DO NOT USE IMPACT WRENCH)**
- Repeat for other gear.
- Remove flanged nuts (87) by placing a nylon wedge (T1) or shop rag between gears to stop rotation while removing flanged nuts.
- Remove gears (9).



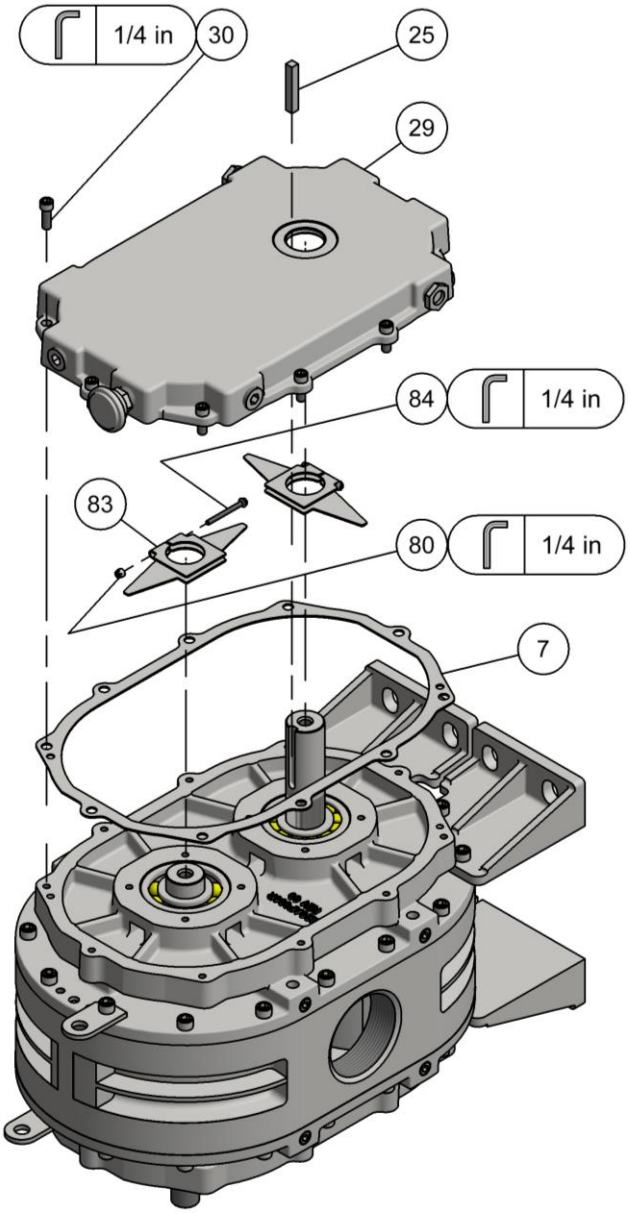

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## 5-4 Bearing Retainer Removal

- Remove 8 bearing retainer screws (10).
- Remove 8 bearing retainers (79).

## 5-5 Drive Cover Removal (DSL UNITS ONLY)

- Remove key (25) from drive shaft.
- Remove drive cover (29) by removing 10 screws (30).
- Remove gasket (7).



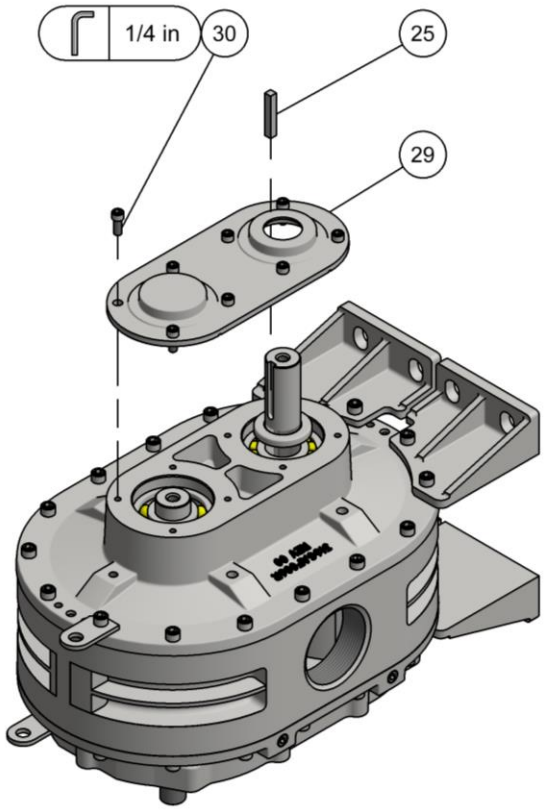

GAF797_T_04 / 00

## 5-6 Oil Slinger Removal (DSL UNITS ONLY)

- Loosen slinger nut (80) and screw (84).
- Remove slinger (83) by sliding slinger off end of shaft.
- Repeat for other slinger.

## 5-7 Drive Cover Removal (GRS-SPL UNITS ONLY)

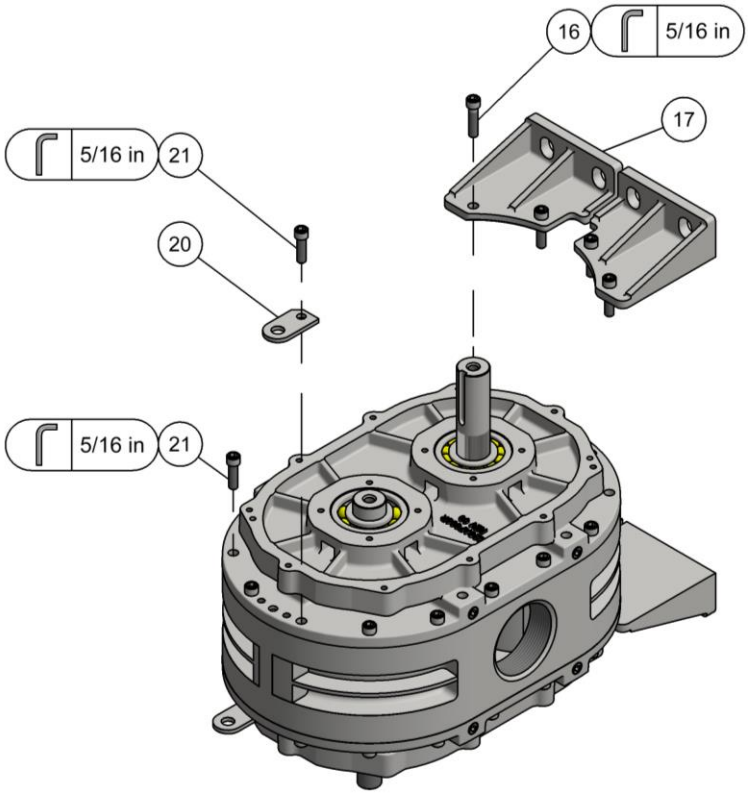
- Remove key (25).
- Remove drive cover (29) by removing 8 screws (30).




GAF797_T_05 / 00

## 5-8 Foot and Lifting Lug Removal

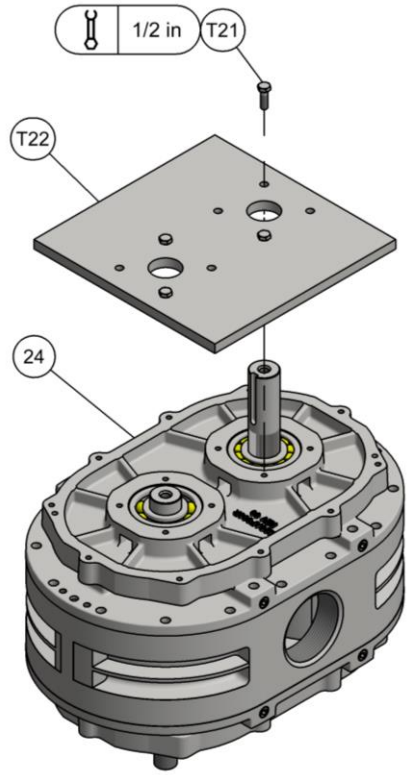
- Remove 2 lifting lugs (20) by removing 2 screws (21).
- Remove 4 feet (17) by removing 8 screws (16).
- Remove remaining headplate screws (21).




GAF797_T_06 / 00

## 5-9 Puller Plate Installation (DRIVE END)

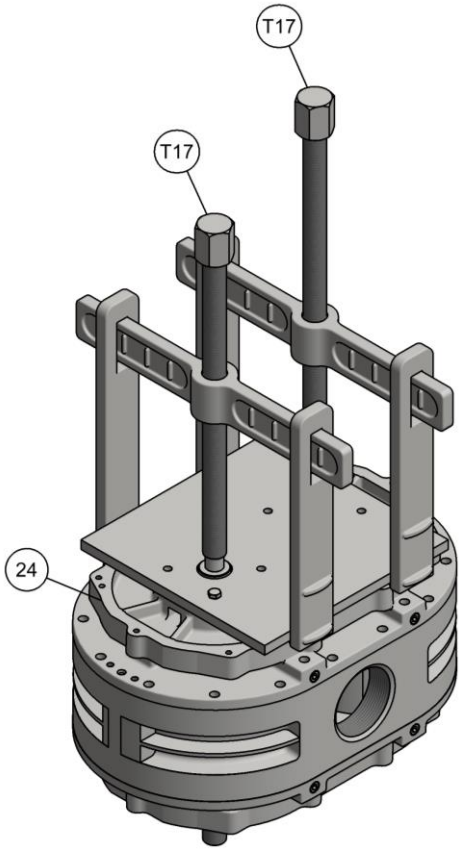
- Install puller plate (T22) with 4 screws (T21) to drive end headplate (24).




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## 5-10 Headplate Removal (DRIVE END)

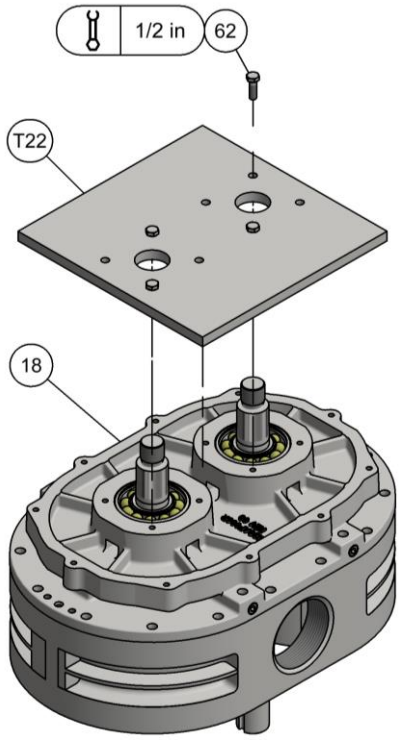
- Install 2 (two jaw) pullers (T17) as shown.
- Tighten each puller forcing screw to extract headplate (24) keeping each side advancing evenly by switching back and forth between each puller only rotating each forcing screw 1/2 turn at a time.
- Remove headplate (24).




GAF797_T_08 / 00

## 5-11 Puller Plate Installation (GEAR END)

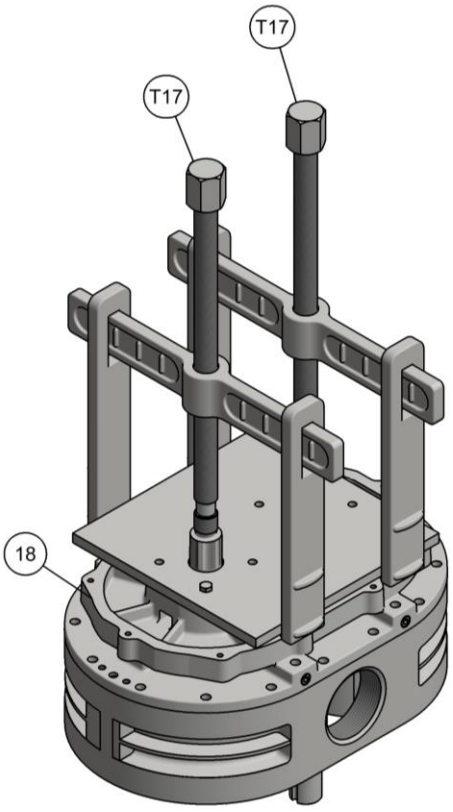
- Install puller plate (T22) with 4 screws (T21) to drive end headplate (18).




GAF797_T_09 / 00

## 5-12 Headplate Removal (GEAR END)

- Install 2 (two jaw) pullers (T17) as shown.
- Tighten each puller forcing screw to extract headplate (18) keeping each side advancing evenly by switching back and forth between each puller only rotating each forcing screw 1/2 turn at a time.
- Remove headplate (18).



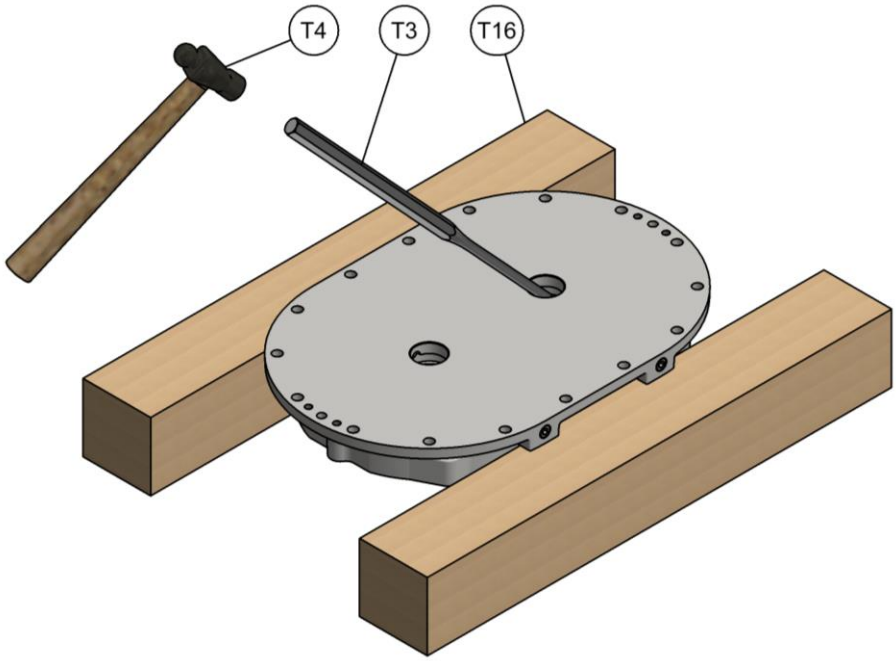

GAF797_T_10 / 00

## 5-13 Bearing Removal

- **NOTE:** Bearing should be replaced during overhaul.
- Bearings are a slip fit in housings and should be removed by hand.
- Remove bearing from headplate.

## 5-14 Seal Removal

- **NOTE:** Seals should be replaced during overhaul.
- Place headplate between 2 blocks of wood (T16) as shown.
- Using hammer (T4) and punch (T3) remove oil seals from headplates.

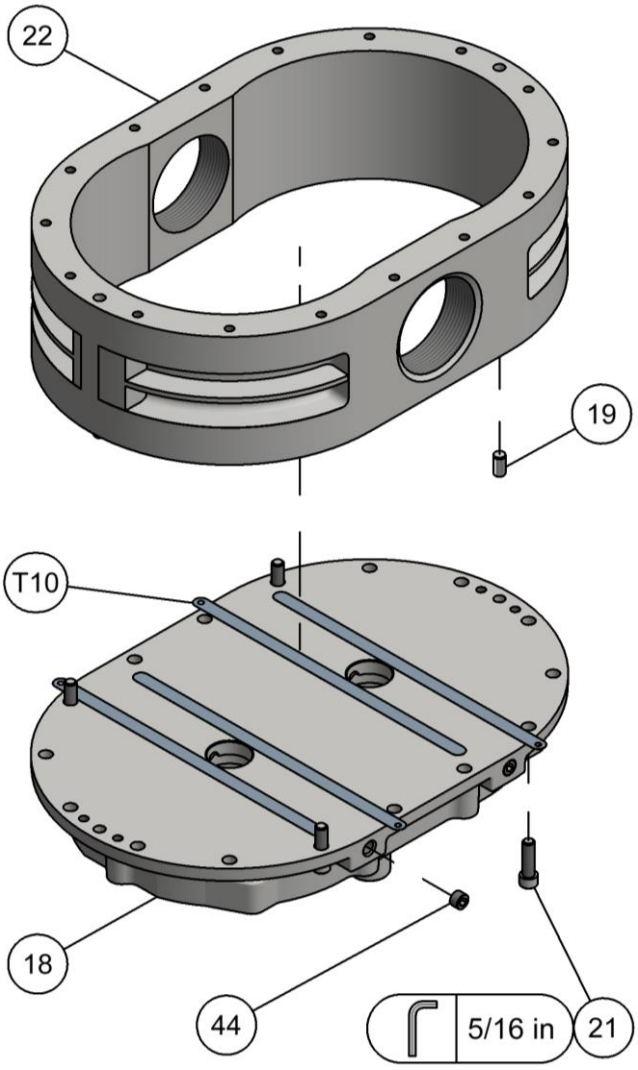



GAF797_T_11 / 00

## ASSEMBLY INSTRUCTIONS

### 5-15 Cylinder Installation

- Inspect Dowel Pins (19) for damage and make sure they are installed in cylinder.
- Position four 0.004” feeler gauges (T10) on headplate (18) as shown.
- **NOTE:** Feeler gauges are to be used to set rotor end clearance. Ensure enough of gauge is extended and accessible for removal.
- Mount cylinder (22) ensuring dowel pins (19) are aligned.
- Install four screws (21) to temporarily secure cylinder (22) to headplate (18).
- Apply thread sealant to 4 plugs (44).
- Install 4 plugs (44) into headplate (18).
- Torque to specification all 4 plugs (44).




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### 5-16 Rotor Installation

- **NOTE:** For “Q” cylinder models, ensure drive rotor position and rotation match configuration. Failure to do so will result in greatly reduced performance.
- Insert rotors (23) into cylinder (22) as shown.

## 5-17 Clearances Limits

• **NOTE:** Before installing drive end headplate position blower so that impellers are vertical, with the drive end on top. It will be necessary to use blocks in order for the unit to set level. Measure the total end clearance using a depth micrometer (see Figure 5-3).

• If total clearance is not within the limits specified in Figure 5-4, it may be necessary to shim the case to obtain the proper total end clearance. Paper shim should be placed between the drive headplate and impeller case.

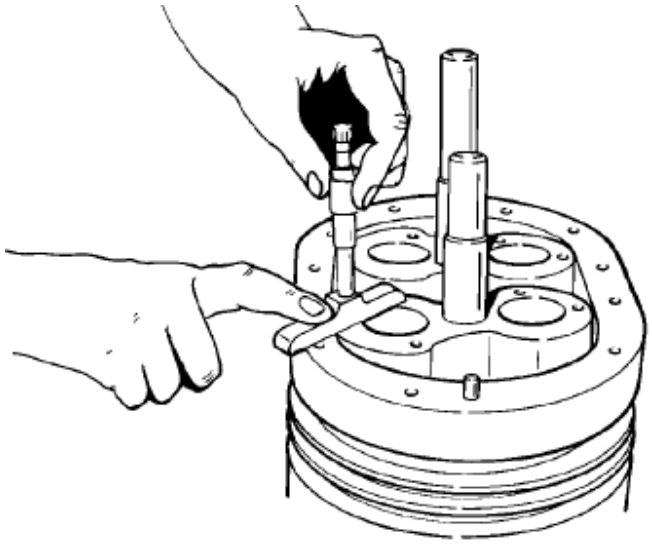
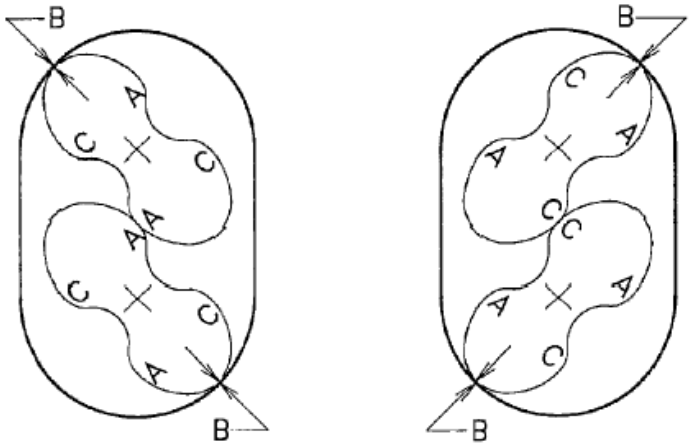


**FIGURE 5-3**

| NOTICE |
|---|
| **If more than .007" shim is required, put .007" on the drive end and the remaining on the gear end.** |




| | 6H | 6M | 6L |
|---|---|---|---|
| TOTAL END CLEARANCE | .008 - .012 | | |
| IMPELLER TO GEAR HEADPLATE | .004 - .005 | | |
| IMPELLER TIMING ( A – A ) ( C – C ) | .009 - .011 | | |
| TIP TO CASE CLEARANCE (B – B ) | .006 - .007 | | |

**FIGURE 5-4**

## 5-18 Headplate Installation (DRIVE END)

- **NOTE:** Before installing drive end headplate use a depth micrometer to measure expansion clearance between rotors and machined cylinder face. Paper shims may be required to achieve proper clearance. (Refer to page 41)

- Proper expansion clearance to be 0.009/0.014 inches.

- Using a hammer, install 2 dowel pins (19) into cylinder.

- Mount headplate (24) onto cylinder (22) ensuring dowel pins (19) are aligned.

- **NOTE: CHECK ORIENTATION OF UNIT BEFORE INSTALLING LUGS AND FEET**

- Install lifting lug (20) by using screw (21) to secure to headplate (24) and cylinder (22).

- Install 4 feet (17) by using 8 screws (16) to secure to headplate (24).

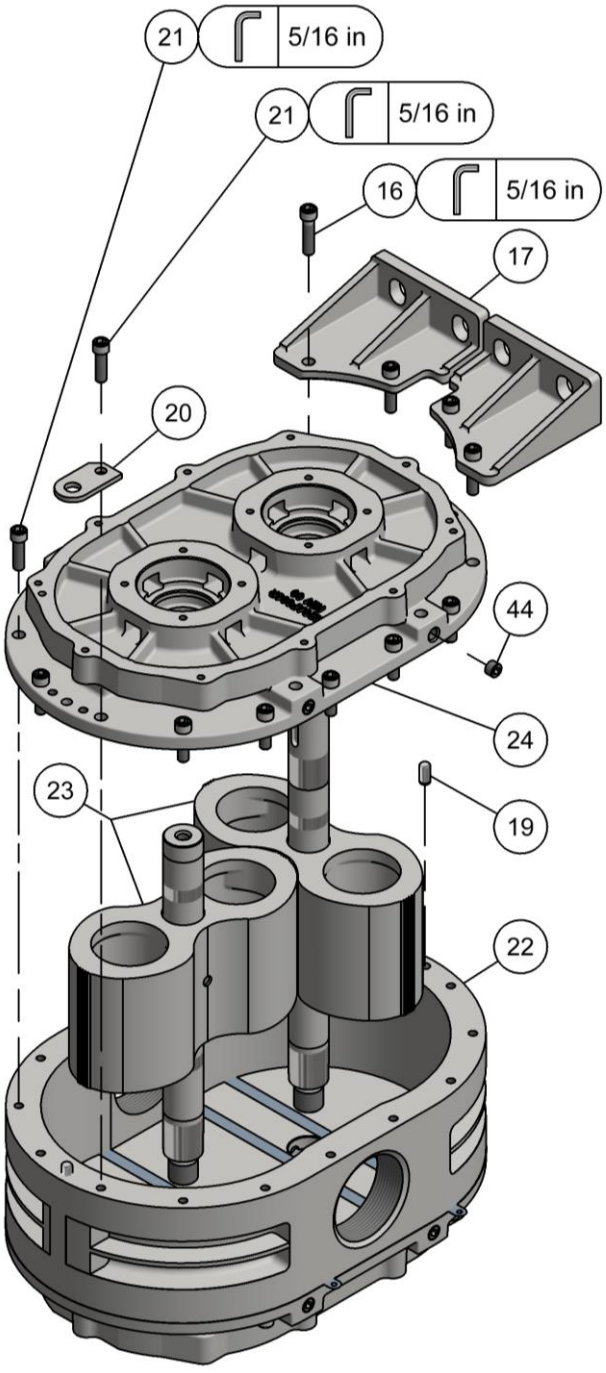
- Install 11 screws (21) to secure cylinder (22) to headplate (24).

- Torque to specification all screws (16) and (21).

- Apply thread sealant to 4 plugs (44).

- Install 4 plugs (44) into headplate (24).

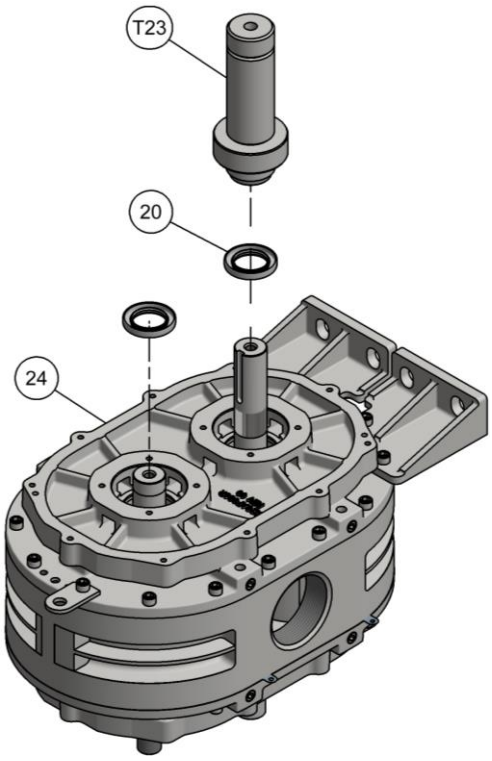
- Torque to specification all plugs (44).




GAF797_T_13 / 00

## 5-19 Lip Seal Installation (DRIVE END DSL UNITS ONLY)

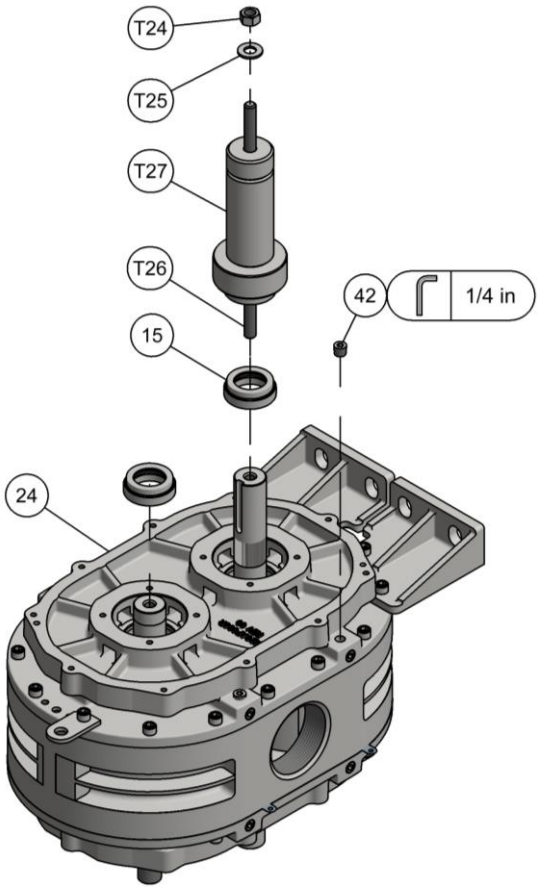
- Ensure headplate (24) is clean and free of any nicks and burrs.
- Apply grease or light oil to the inner and outer diameter of each shaft seal (15).
- Using a hammer and seal driver (T23), carefully install each seal until seated.




GAF797_T_14 / 00

## 5-20 Mechanical Seal Installation (DRIVE END DSL UNITS ONLY)

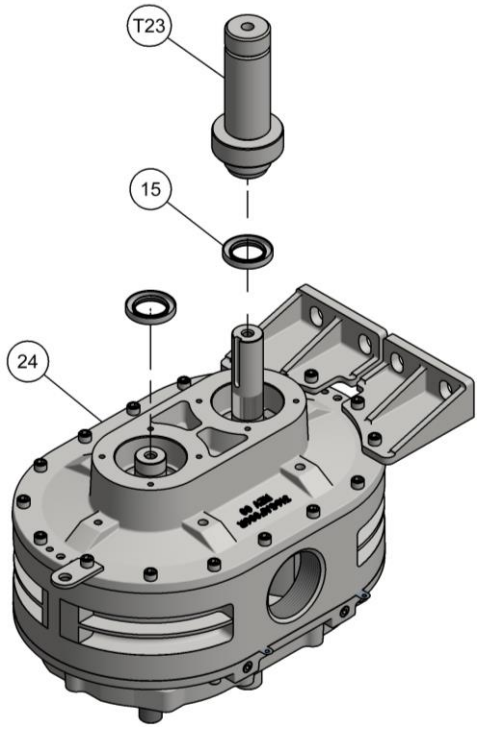
- Ensure headplate (24) is clean and free of any nicks and burrs.
- Apply grease or light oil to the inner and outer diameter of each shaft seal (15).
- Assemble threaded rod (T26) onto end of shaft.
- Slide seal driver (T27) over rod.
- Slide washer (T25) over rod.
- Tighten Nut (T24) on rod to press seal into housing, carefully install seal until seated.
- Repeat seal installation of other shaft.
- Apply thread sealant to 4 plugs (42).
- Install 4 plugs (42) into headplate (24).
- Torque to specification all plugs (42).




GAF797_T_15 / 00

## 5-21 Lip Seal Installation (DRIVE END GRS-SPL UNITS ONLY)

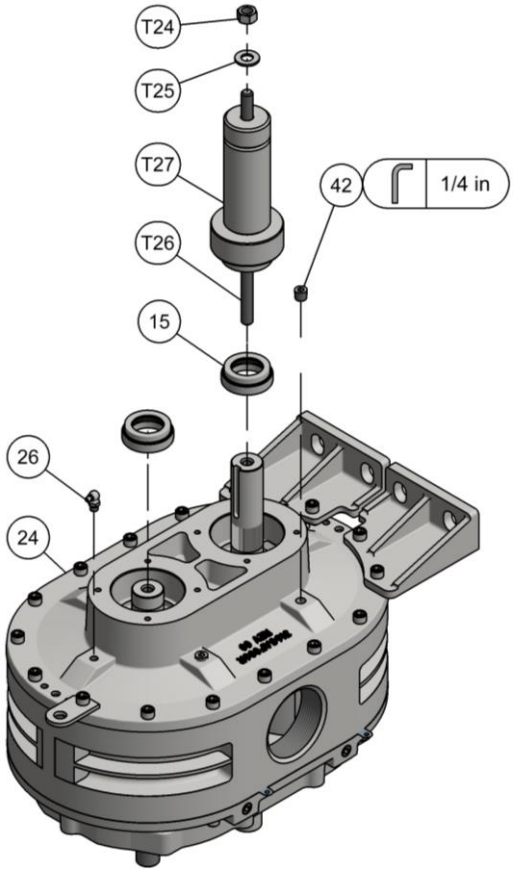
- Ensure headplate (24) is clean and free of any nicks and burrs.
- Apply grease or light oil to the inner and outer diameter of each shaft seal (15).
- Using a hammer and seal driver (T23), carefully install each seal until seated..




GAF797_T_16 / 00

## 5-22 Mechanical Seal Installation (DRIVE END GRS-SPL UNITS ONLY)

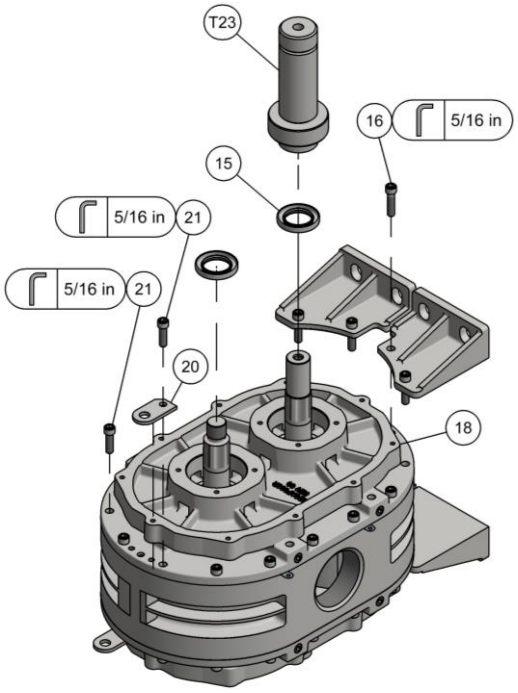
- Ensure headplate (24) is clean and free of any nicks and burrs.
- Apply grease or light oil to the inner and outer diameter of each shaft seal (15).
- Assemble threaded rod (T26) onto end of shaft.
- Slide seal driver (T27) over rod.
- Slide washer (T25) over rod.
- Tighten Nut (T24) on rod to press seal into housing, carefully install seal until seated.
- Repeat seal installation of other shaft.
- Apply thread sealant to 4 plugs (42).
- Install 4 plugs (42) into headplate (24).
- Torque to specification all plugs (42).




GAF797_T_17 / 00

## 5-23 Lip Seal Installation (GEAR END)

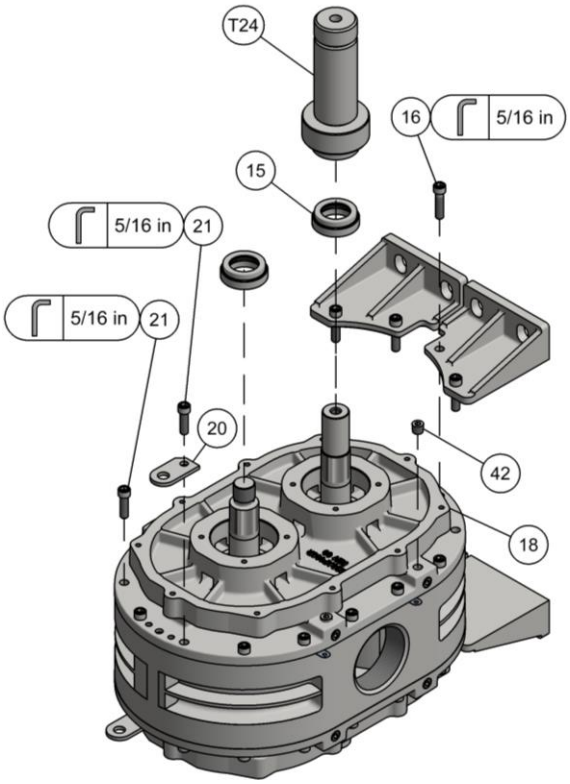
- Ensure headplate (18) is clean and free of any nicks and burrs.
- Apply grease or light oil to the inner and outer diameter of each shaft seal (15).
- Using a hydraulic press (T10) and seal driver (T23), carefully install each seal until seated.
- **<u>NOTE:</u> CHECK ORIENTATION OF UNIT BEFORE INSTALLING LUGS AND FEET**
- Install lifting lug (20) by using screw (21) to secure to headplate (18).
- Install feet (17) by using 8 screws (16) to secure to headplate (18) and cylinder (22).
- Install 11 screws (21) to secure headplate (18) to cylinder (22).




GAF797_T_20 / 00

## 5-24 Mechanical Seal Installation (GEAR END)

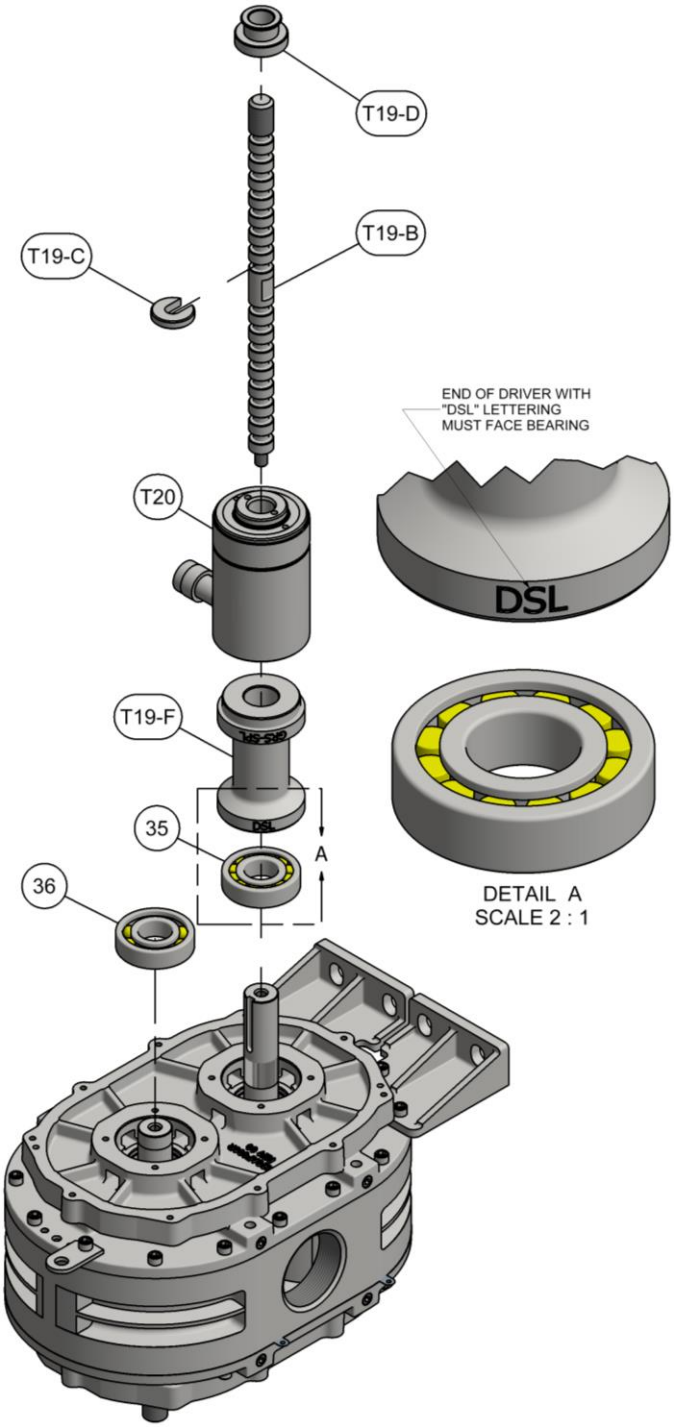
- Ensure headplate (18) is clean and free of any nicks and burrs.
- Apply grease or light oil to the inner and outer diameter of each shaft seal (15).
- Using a hydraulic press (T10) and seal driver (T23), carefully install each seal until seated.
- **<u>NOTE:</u> CHECK ORIENTATION OF UNIT BEFORE INSTALLING LUGS AND FEET**
- Install lifting lug (20) by using screw (21) to secure to headplate (18).
- Install feet (17) by using 8 screws (16) to secure to headplate (18) and cylinder (22).
- Install 11 screws (21) to secure headplate (18) to cylinder (22).
- Apply thread sealant to plugs (44) and (42).
- Install 4 plugs (44) and 4 plugs (42) into headplate.
- Torque to specification all screws (16) and (21).
- Torque to specification all plugs (42) and (44).




GAF797_T_21 / 00

## 5-25 Bearing Installation (DRIVE END DSL UNITS ONLY)

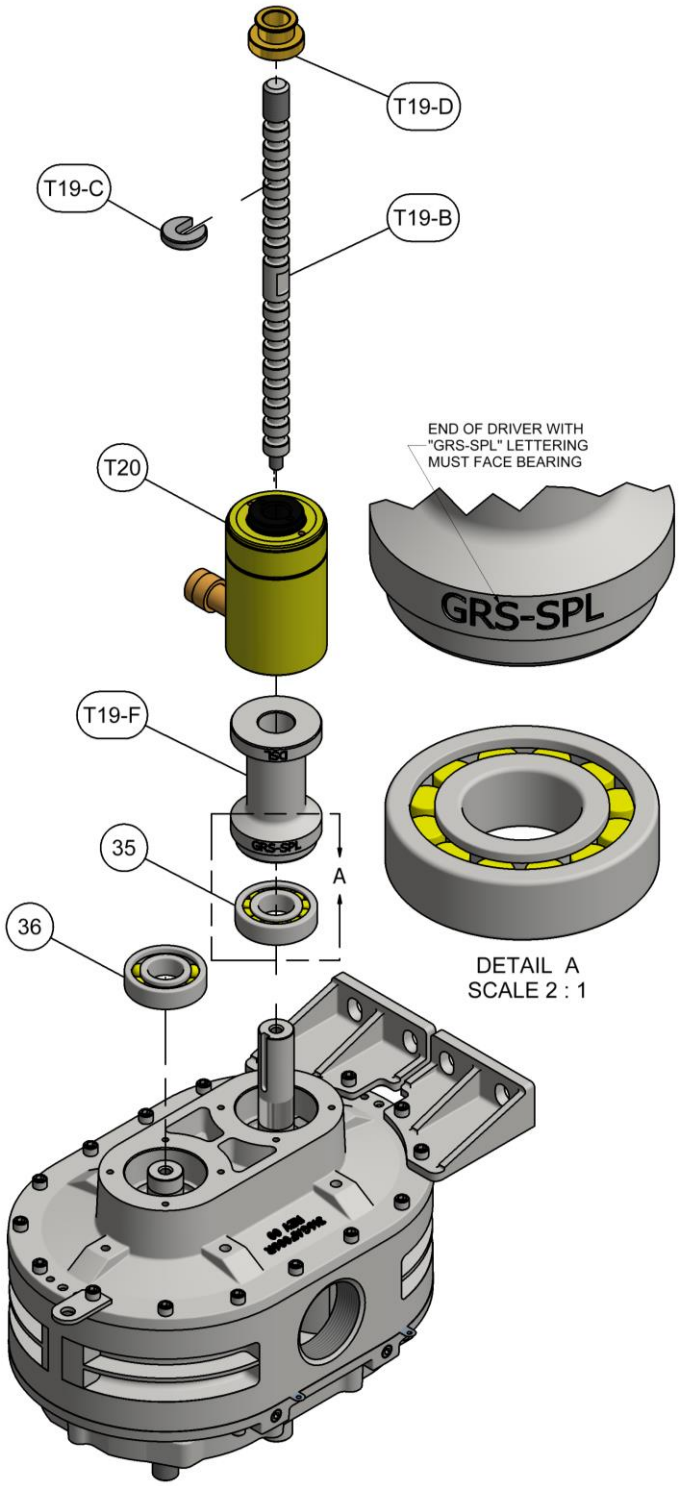
- **NOTE:** END OF DRIVER (T19-F) MARKED ‘DSL’ IS FACING BEARING
- Place bearing (35) over long shaft.
- Assemble rod (T19-B) onto end of shaft.
- Slide bearing driver (T19-F) over rod.
- **NOTE:** MAKE SURE END OF DRIVER MARKED ‘DSL’ IS FACING BEARING
- Slide hydraulic ram (T20) over rod, install washer ‘C’ and cap (T19-D)
- **NOTE: DO NOT EXCEED 10,000 PSI PRESSURE**
- Repeat bearing installation of the other shaft using bearing (36) on short shaft.




GAF797_T_18 / 00

## 5-26 Bearing Installation (DRIVE END GRS-SPL UNITS ONLY)

- **<u>NOTE:</u> END OF DRIVER (T19-F) MARKED 'GRS-SPL' MUST BE FACING BEARING**
- Place bearing (35) over long shaft.
- Assemble rod (T19-B) onto end of shaft
- Slide bearing driver (T19-F) over rod.
- **<u>NOTE:</u> MAKE SURE END OF DRIVER MARKED 'DSL' IS FACING BEARING**
- Slide hydraulic ram (T20) over rod, install washer 'C' and cap (T19-D)
- **<u>NOTE:</u> DO NOT EXCEED 10,000 PSI PRESSURE**
- Repeat bearing installation of the other shaft using bearing (36) on short shaft.

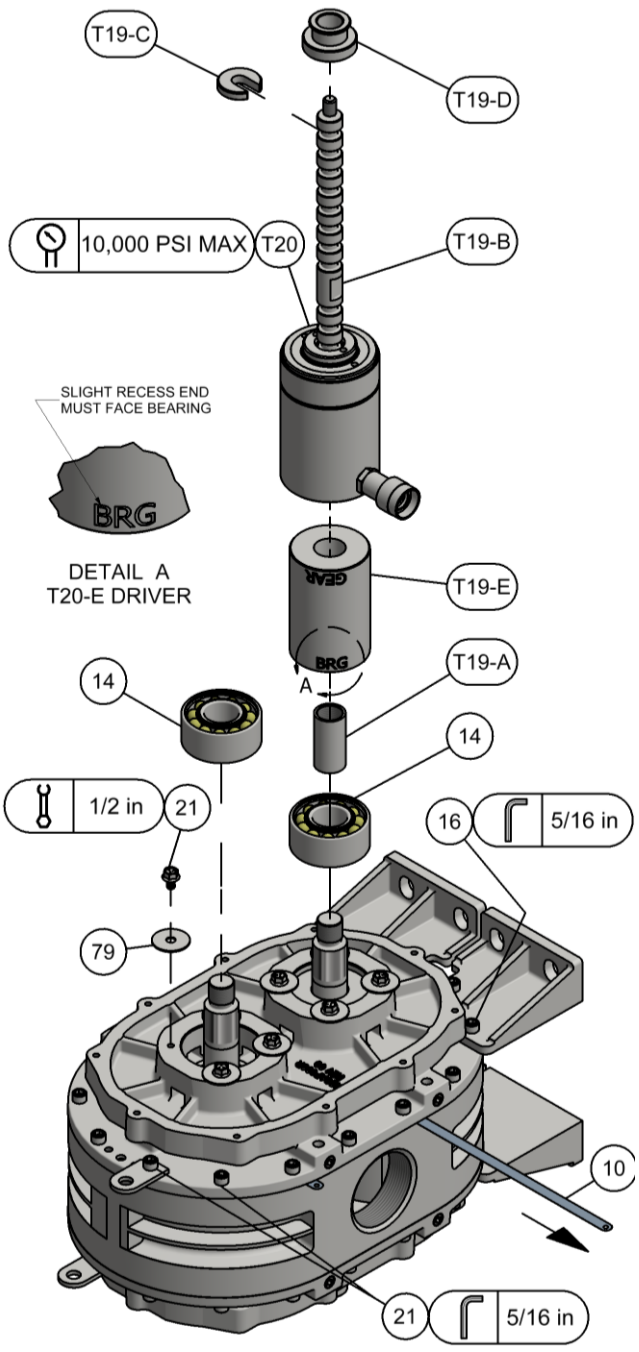



GAF797_T_19 / 00

## 5-27 Bearing Installation (GEAR END)

- **NOTE:** End of driver (T20-E) with a slight recess is used for installing bearings on the gear end, the other end of the driver without a recess is used for installing gears.
  **(FAILURE TO ORIENT DRIVER ACCORDINGLY WILL RESULT IN EXTREME DIFFICULTY REMOVING END CLEARANCE SHIMS.)**

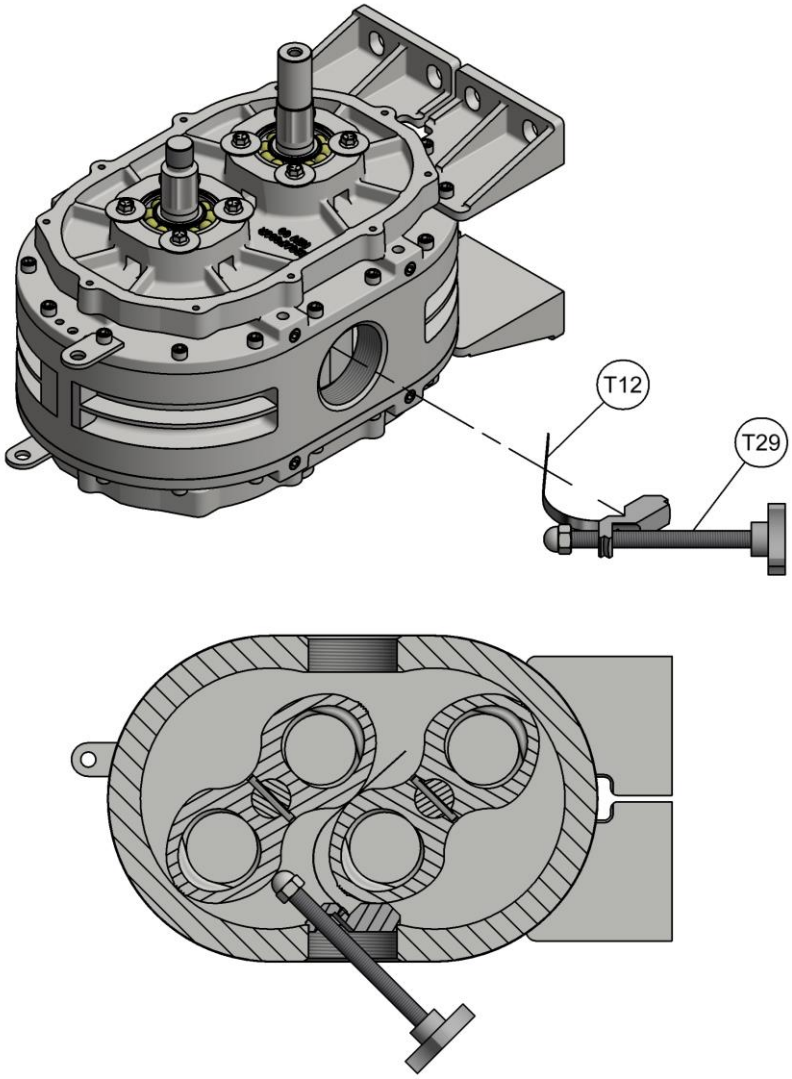
- Place a bearing (14) over end of shaft.
- Assemble rod coupling (T20-A) and Rod (T20-B) onto end of shaft.
- Slide driver (T20-E) over rod.
- **NOTE: MAKE SURE END OF DRIVER WITH A SLIGHT RECESS ID FACING BEARING.**
- Slide hydraulic ram (T18) over puller rod, install “C” washer (T20-c) and cap (T20-D).
- Install bearing using hydraulic ram (T18).
- **NOTE: DO NOT EXCEED 10,000 PSI PRESSURE**
- Repeat bearing installation of the other shaft.
- Install 8 bearing retainers (79) using 8 screws (10).
- Loosen gear end headplate screws (16) and (21), remove all 4 feeler gauges (T10).
- **NOTE:** Pliers (T15) may be required to remove feeler gauges.
- Tighten headplate screws (16) and (21).
- Torque to specification all screws (16) and (21).




GAF797_T_22 / 00

## 5-28 Setting Interlobe Clearance

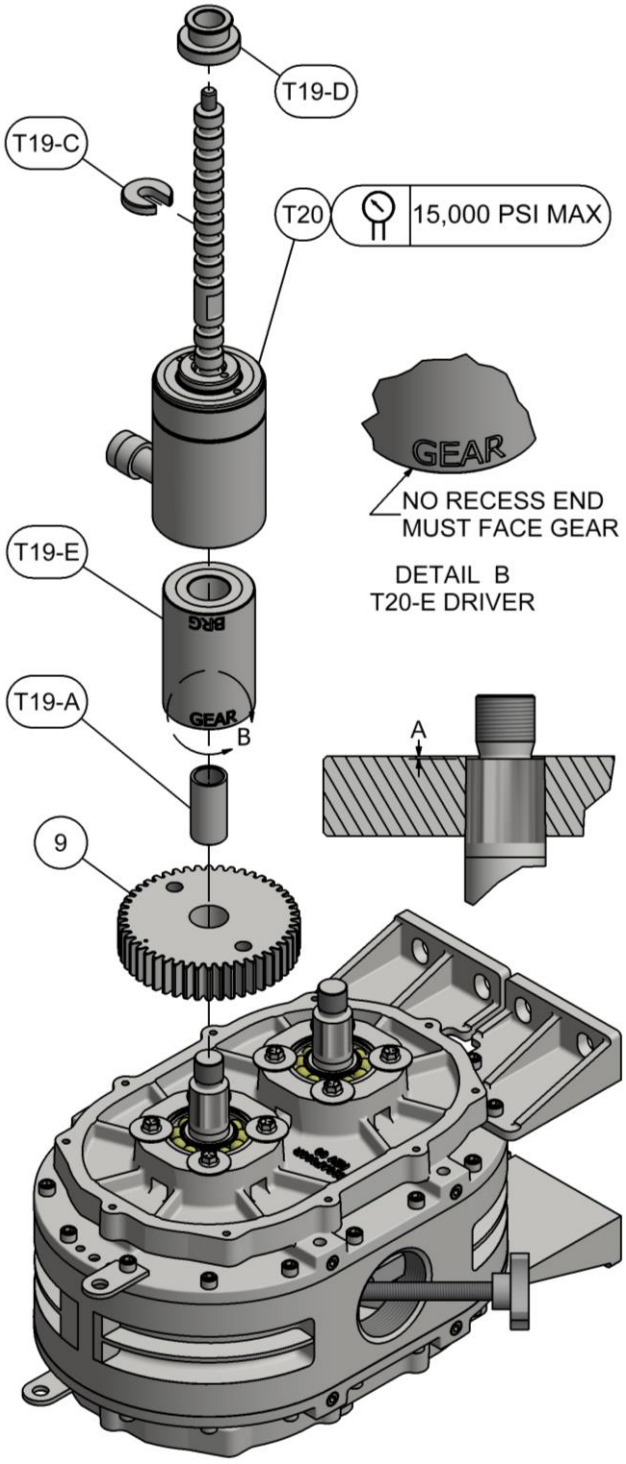
- Assembly rotor tool (T26) and 0.012 inch feeler gauge (T12).
- Install rotor lock tool into port while positioning feeler gauge in between the rotors as shown.
- Tighten adjusting knob until locked firmly against impeller body.
- Ensure tolerance is achieved as indicated in table. (See Figure 5-4 on page 41).




GAF797_T_23 / 00

## 5-29 Idler Gear Installation

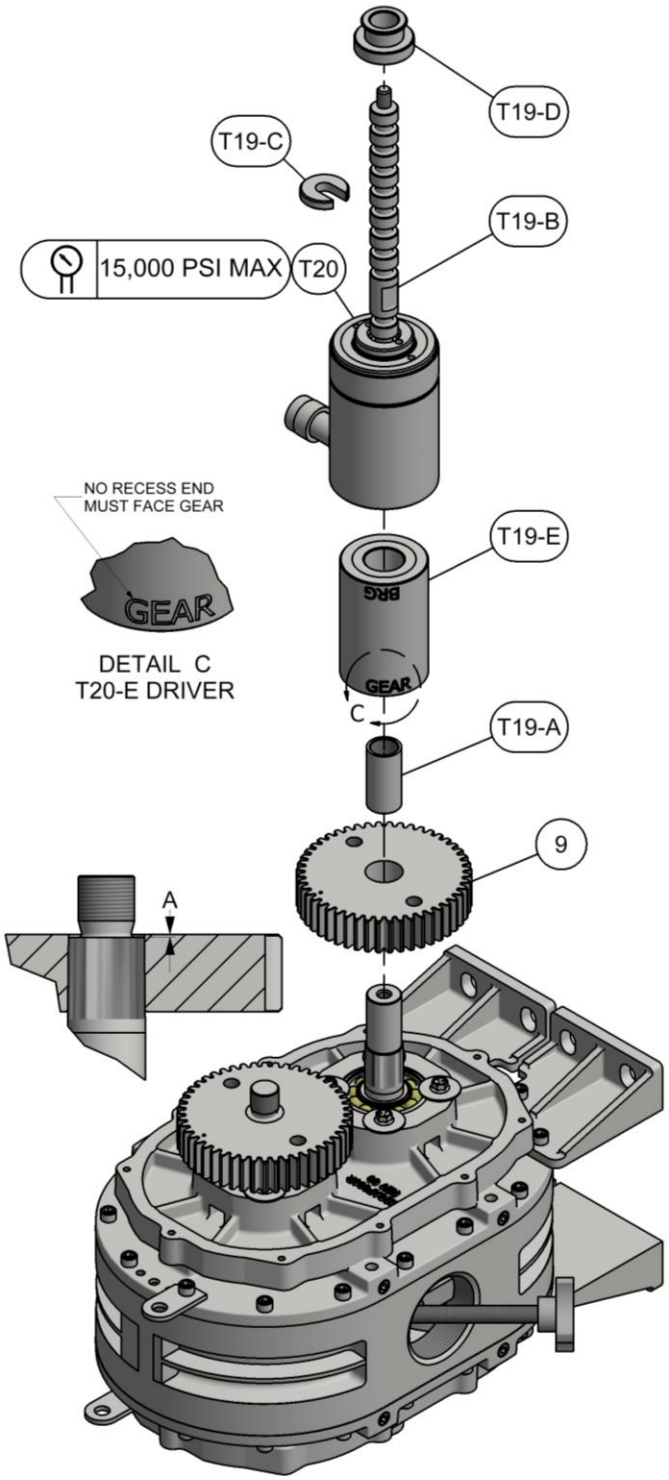
- Place gear (9) on idler shaft.
- Assemble rod coupling (T20-A) and rod (T20-B) onto end of shaft.
- Hold driver (T20-E) over rod so top of driver is even with the lower rod groove.
- Release driver allowing it to freely drop onto gear on shaft.
- Remove driver.
- Using a depth micrometer, measure dimension “A” as shown in illustration. Ensure a minimum of 0.090 inch is achieved as indicated in table. (See Figure 5-4 on page 41)
- **NOTE:** If minimum backlash is not achieved, gear and/or shaft may need to be replaced.
- Slide driver (T20-E) over rod.
- **NOTE: MAKE SURE END OF DRIVER WITHOUT RECESS IS FACING GEAR.**
- Slide hydraulic ram (T18) over puller rod (T20-B), install “C” washer (T20-C) and cap (T20-D.
- Install gear using hydraulic ram (T18).
- **NOTE:** Driver (T20-E) is designed to not travel beyond shoulder on shaft, allowing gear face to be flush with shoulder.
- **NOTE: DO NOT EXCEED 15,000 PSI OF PRESS FORCE OR DAMAGE MAY OCCUR TO SHAFT.**




GAF797_T_24 / 00

## 5-30 Drive Gear Installation

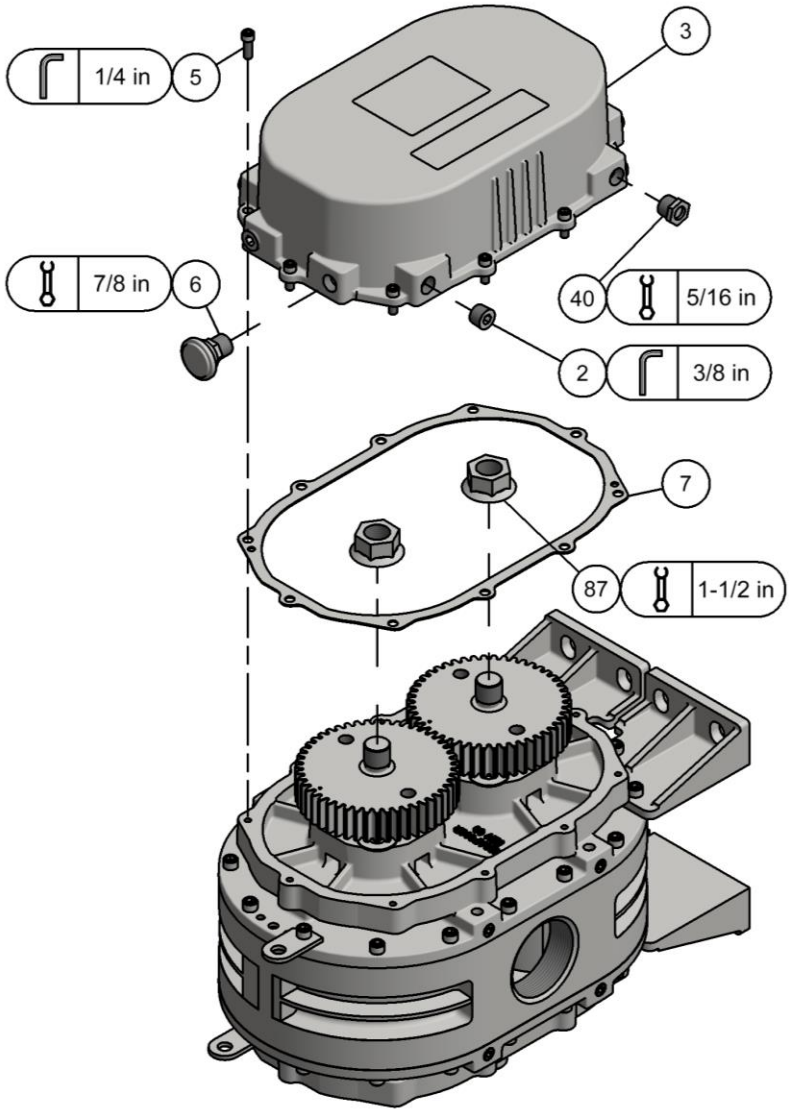
- Place gear (9) on idler shaft.
- Assemble rod coupling (T20-A) and rod (T20-B) onto end of shaft.
- Hold driver (T20-E) over rod so top of driver is even with the lower rod groove.
- Rotate and hold gear in mesh against other gear in direction of operating rotation to remove backlash.
- Release driver allowing it to freely drop onto gear on shaft.
- Remove driver.
- Using a depth micrometer, measure dimension “A” as shown in illustration. Ensure a minimum of 0.090 inch is achieved as indicated in table. (See Figure 5-4 on page 41)
- **NOTE:** If minimum backlash is not achieved, gear and/or shaft may need to be replaced.
- Slide driver (T20-E) over rod.
- **NOTE: MAKE SURE END OF DRIVER WITHOUT RECESS IS FACING GEAR.**
- Slide hydraulic ram (T18) over puller rod (T20-B), install “C” washer (T20-C) and cap (T20-D).
- Install gear using hydraulic ram (T18).
- **NOTE:** Driver (T20-E) is designed to not travel beyond shoulder on shaft, allowing gear face to be flush with shoulder.
- **NOTE: DO NOT EXCEED 15,000 PSI OF PRESS FORCE OR DAMAGE MAY OCCUR TO SHAFT.**




GAF797_T_25 / 00

## 5-31 Gear Nut and Gear Cover Installation

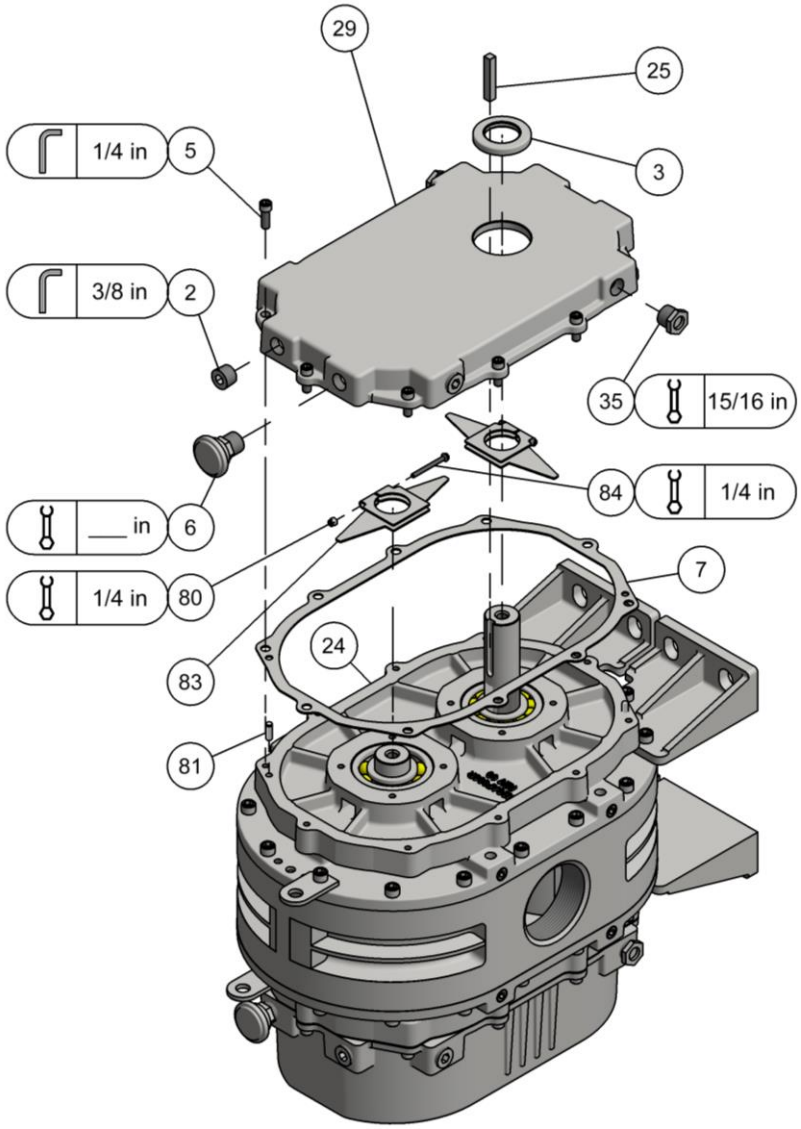
- Apply Loctite 243 to threads of flanged nuts (87).
- Tighten flanged nuts (87).
- Torque to specification nuts (87).
- Install gasket (7) onto headplate (18).
- Install cover (3) onto headplate (18) using 10 screws (5).
- **<u>NOTE:</u> CHECK ORIENTATION OF UNIT BEFORE INSTALLING PLUGS, OIL LEVEL GAUGE AND BREATHER**.
- Apply thread sealant to 6 plugs (2), oil level gauge (40) and breather (6).
- Install plugs (2), oil level gauge (40) and breather (6) according to unit configuration.
- Torque to specification all screws (5).
- Torque to specification all plugs (2).
- Torque to specification oil level gauge (40).
- Torque to specification breather (6).




GAF797_T_26 / 00

## 5-32 Drive Cover Installation (DSL UNITS ONLY)

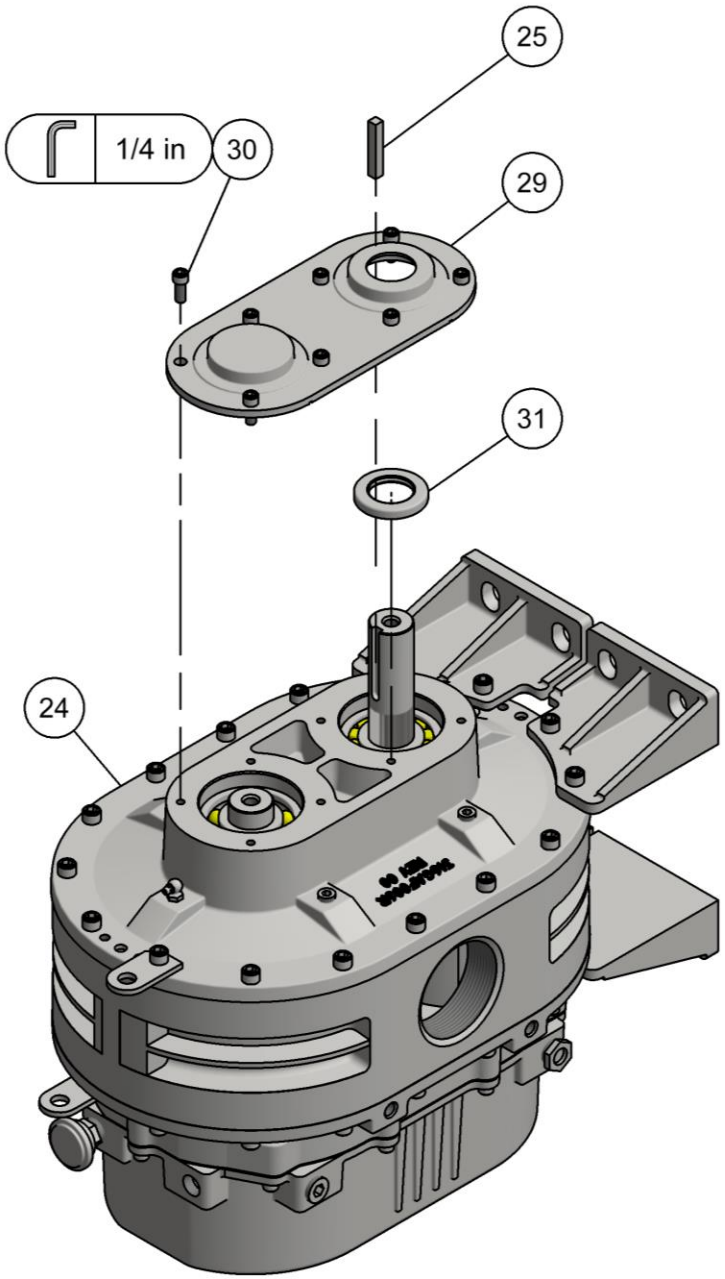
- Install oil slinger (83) onto shaft using screw (84) and nut (80).
- Repeat for other shaft.
- Torque to specification all screws (84) and nuts (80).
- Install 2 dowel pins (81 into headplate (24).
- Install gasket (7) onto headplate (24).
- Install cover (29) onto headplate (24) using 10 screws (30).
- **<u>NOTE:</u> CHECK ORIENTATION OF UNIT BEFORE INSTALLING PLUGS, OIL LEVEL GAUGE AND BREATHER**.
- Apply thread sealant to plugs (2), oil level gauge (40) and breather (6).
- Install plugs (2), oil level gauge (40) and breather (6) according to configuration.
- Install drive shaft seal (31) into cover (29).
- Install drive shaft key (25) into drive shaft keyway.
- Torque to specification all screws (30).
- Torque to specification all plugs (2).
- Torque to specification oil level gauge (40).
- Torque to specification breather (6).




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## 5-33 Drive Cover Installation (GRS-SPL UNITS ONLY)

- Install drive shaft seal (31) into cover (29).
- Install cover (29) onto headplate (24) using 8 screws (30).
- Install drive shaft key (25) into to drive shaft keyway.
- Torque to specification all screws (30).




GAF797_T_28 / 00

## ASSEMBLY TORQUE SPECIFICATIONS

### Hex Head Cap Screws

| Tightening Torque Values In Foot Pounds | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Size | Bolt Dia | Grade 2 | | | Grade 5 | | | Grade 8 | | |
| | | Clamp Load | Tightening Torque | | Clamp Load | Tightening Torque | | Clamp Load | Tightening Torque | |
| | | | K=.20 Dry | K=.15 Lub. | | K=.20 Dry | K=.15 Lub. | | K=.20 Dry | K=.15 Lub. |
| 1/4-20 | .2500 | 1320 | 5 | 4 | 2020 | 8 | 6 | 2860 | 12 | 9 |
| 1/4-28 | .2500 | 1500 | 6 | 5 | 2320 | 10 | 7 | 3280 | 14 | 10 |
| 5/16-18 | .3125 | 2160 | 11 | 8 | 3340 | 17 | 13 | 4720 | 25 | 18 |
| 5/16-24 | .3125 | 2400 | 12 | 9 | 3700 | 19 | 14 | 5220 | 25 | 20 |
| 3/8-16 | .3750 | 3200 | 20 | 15 | 4940 | 30 | 23 | 7000 | 45 | 35 |
| 3/8-24 | .3750 | 3620 | 23 | 17 | 5600 | 35 | 25 | 7900 | 50 | 35 |
| 7/16-14 | .4375 | 4380 | 30 | 24 | 6800 | 50 | 35 | 9550 | 70 | 55 |
| 7/16-20 | .4375 | 4900 | 35 | 25 | 7550 | 55 | 40 | 10700 | 80 | 60 |
| 1/2-13 | .5000 | 5840 | 50 | 35 | 9050 | 75 | 55 | 12750 | 110 | 80 |
| 1/2-20 | .5000 | 6600 | 55 | 40 | 10700 | 90 | 65 | 14400 | 120 | 90 |

### Socket Head Cap Screws

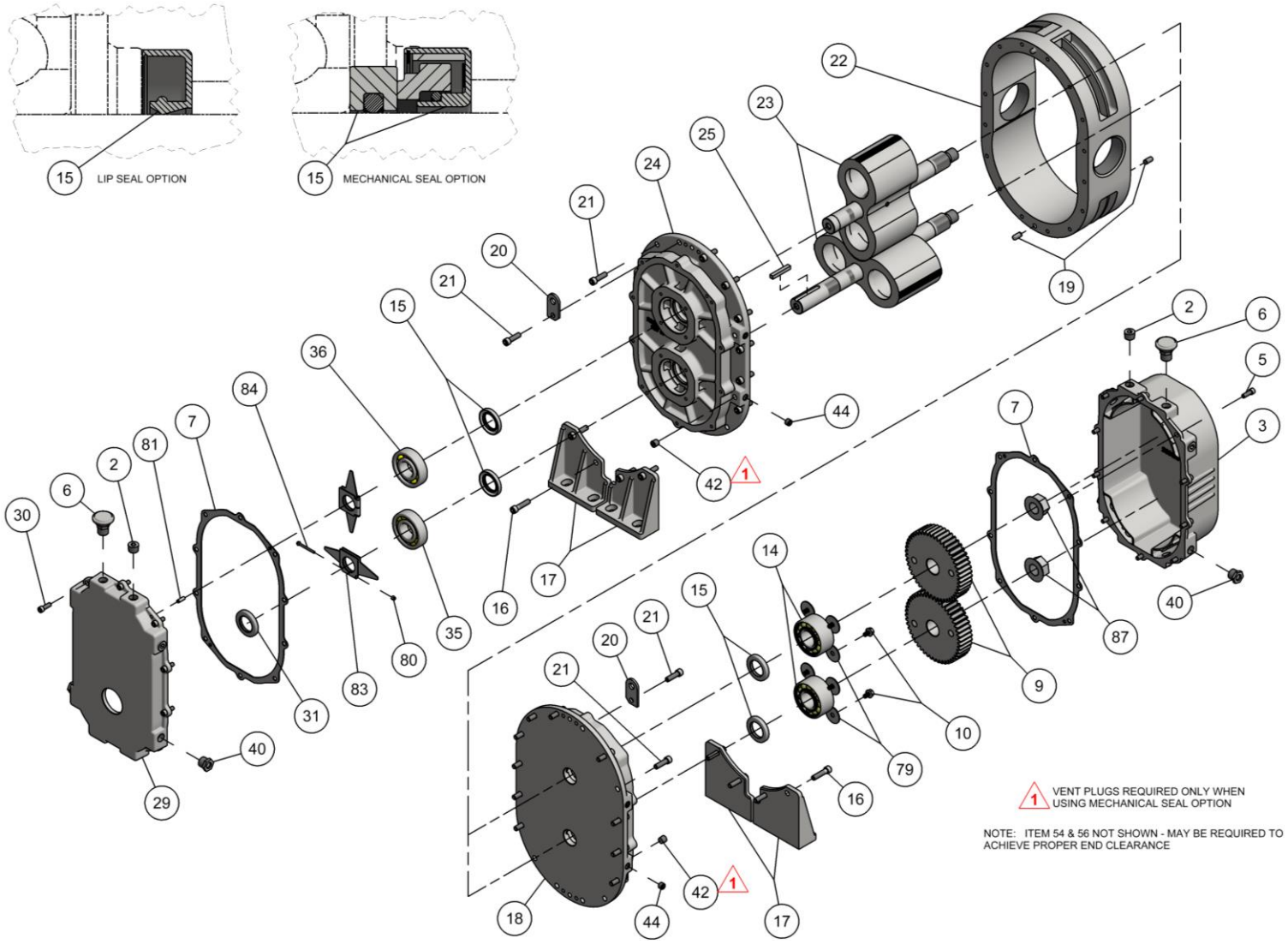
| Tightening Torque Values in Foot Pounds | | | | |
|---|---|---|---|---|
| Socket Head Cap Screw | | ASTM A574 | | |
| Thread Size & Pitch | Screw Diameter | Clamp Load Pounds | Tightening Torque | |
| | | | K= .20 Dry | K= .15 Lub. |
| 1/4-20 | .2500 | 3338 | 14 | 10 |
| 1/4-28 | .2500 | 3825 | 16 | 12 |
| 5/16-18 | .3125 | 5505 | 29 | 22 |
| 5/16-24 | .3125 | 6090 | 32 | 24 |
| 3/8-16 | .3750 | 8100 | 51 | 38 |
| 3/8-24 | .3750 | 9225 | 58 | 43 |
| 7/16-14 | .4375 | 11175 | 81 | 61 |
| 7/16-20 | .4375 | 12450 | 91 | 68 |
| 1/2-13 | .5000 | 14925 | 124 | 93 |
| 1/2-20 | .5000 | 16800 | 140 | 105 |

### Miscellaneous Items

| Item | Description | lbf-ft |
|---|---|---|
| 2 | 1/2” Plug | |
| 6 | Breather | |
| 26 | Grease Fitting | |
| 40 | Oil Level Gauge | |
| 42 | Plug | |
| 44 | Plug | |
| 80 | Nut | |
| 84 | Screw | |

### Normal Torque Tolerance is -0% / +10%

## DSL (DUAL SPLASH LUBE)



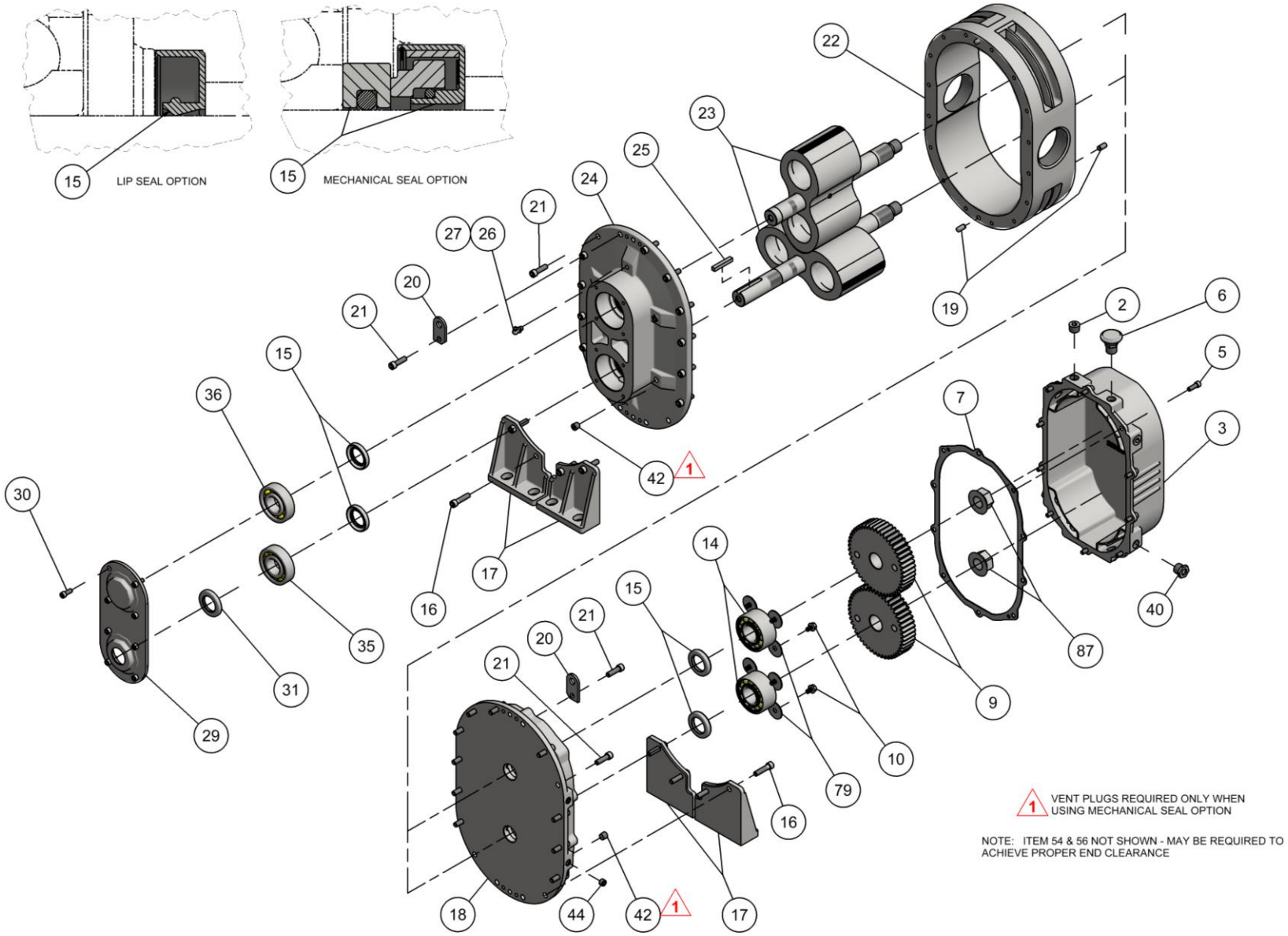

309GAF810 / 00

## DSL (DUAL SPLASH LUBE)

| ITEM | DESCRIPTION | QTY | 6H LIP SEAL | 6M LIP SEAL | 6L LIP SEAL | 6H MECH SEAL | 6M MECH SEAL | 6L MECH SEAL | ITEM |
|---|---|---|---|---|---|---|---|---|---|
| 2 | PLUG | 10 | 64AC4 | 64AC4 | G4AC4 | 64AC4 | 64AC4 | G4AC4 | 2 |
| 3 | GEAR CASE | 1 | 301GAF602 | 301GAF602 | 301GAF602 | 301GAF602 | 301GAF602 | 301GAF602 | 3 |
| 5 | SCREW | 10 | 75P40 | 75P40 | 75P40 | 75P40 | 75P40 | 75P40 | 5 |
| 6 | BREATHER | 2 | 5L223 | 5L223 | 5L223 | 5L223 | 5L223 | 5L223 | 6 |
| *7 | GASKET | 2 | 300GAF715 | 300GAF715 | 300GAF715 | 300GAF715 | 300GAF715 | 300GAF715 | *7 |
| 9 | GEAR KIT | 1 | 302GAF6008 | 302GAF6008 | 302GAF6008 | 302GAF6008 | 302GAF6008 | 302GAF6008 | 9 |
| *10 | SCREW | 8 | TST000539 | TST000539 | TST000539 | TST000539 | TST000539 | TST000539 | *10 |
| *14 | BEARING | 2 | 900639080506 | 900639080506 | 900639080506 | 900639080506 | 900639080506 | 900639080506 | *14 |
| *15 | SEAL (INTERNAL) | 4 | TST000543 | TST000543 | TST000543 | 300GAF199 | 300GAF199 | 300GAF199 | *15 |
| 16 | SCREW | 8 | 75P57 | 75P57 | 75P57 | 75P57 | 75P57 | 75P57 | 16 |
| 17 | FOOT GROUP | 1 | 306GAF166 | 306GAF166 | 306GAF166 | 306GAF166 | 306GAF166 | 306GAF166 | 17 |
| 18 | BEARING HOUSING | 1 | 312GAF006 | 312GAF006 | 312GAF006 | 313GAF006 | 313GAF006 | 313GAF006 | 18 |
| 19 | DOWEL PIN | 4 | 62M48 | 62M48 | 62M48 | 62M48 | 62M48 | 62M48 | 19 |
| 20 | LIFTING LUG | 2 | 201GAF451 | 201GAF451 | 201GAF451 | 201GAF451 | 201GAF451 | 201GAF451 | 20 |
| 21 | SCREW | 24 | 75P56 | 75P56 | 75P56 | 75P56 | 75P56 | 75P56 | 21 |
| 22 | CYLINDER | 1 | 900883063901 | 900883064001 | 900883064101 | 900883063901 | 900883064001 | 900883064101 | 22 |
| 23 | ROTOR GROUP | 1 | 300GAFH4028 | 300GAFM4028 | 300GAFL4028 | 300GAF4028 | 300GAFM4028 | 300GAFL4028 | 23 |
| 24 | BEARING HOUSING | 1 | 314GAF006 | 314GAF006 | 314GAF006 | 315GAF006 | 315GAF006 | 315GAF006 | 24 |
| 25 | KEY | 1 | 900639910406 | 900639910406 | 900639910406 | 900639910406 | 900639910406 | 900639910406 | 25 |
| 29 | DRIVE COVER | 1 | 300GAF477 | 300GAF477 | 300GAF477 | 300GAF477 | 300GAF477 | 300GAF477 | 29 |
| 30 | SCREW | 10 | 75P40 | 75P40 | 75P40 | 75P40 | 75P40 | 75P40 | 30 |
| *31 | DRIVE SEAL | 1 | 60DD658 | 60DD658 | 60DD658 | 60DD658 | 60DD658 | 60DD658 | *31 |
| *35 | BEARING | 1 | 12BA215 | 12BA215 | 12BA215 | 12BA215 | 12BA215 | 12BA215 | *35 |
| *36 | BEARING | 1 | 12BA247 | 12BA247 | 12BA247 | 12BA247 | 12BA247 | 12BA247 | *36 |
| 40 | OIL LEVEL GAUGE | 4 | 40P31 | 40P31 | 40P31 | 40P31 | 40P31 | 40P31 | 40 |
| 42 | PLUG | 8 | ---------- | ---------- | ---------- | 64AC2 | 64AC2 | 64AC2 | 42 |
| 44 | PLUG | 8 | 76F92 | 76F92 | 76F92 | 76F92 | 76F92 | 76F92 | 44 |
| *54 | SHIM (0.003” THICK) | 1 | 200GAF732 | 200GAF732 | 200GAF732 | 200GAF732 | 200GAF732 | 200GAF732 | *54 |
| 55 | SHIM (0.010” THICK) | 1 | 201GAF732 | 201GAF732 | 201GAF732 | 201GAF732 | 201GAF732 | 201GAF732 | 55 |
| *56 | SHIM (0.0015/0.002” THICK) | 1 | 202GAF732 | 202GAF732 | 202GAF732 | 202GAF732 | 202GAF732 | 202GAF732 | *56 |
| 79 | WASHER (BEARING RETAINER) | 8 | 95A38Z | 95A38Z | 95A38Z | 95A38Z | 95A38Z | 95A38Z | 79 |
| 80 | NUT | 2 | TST000541 | TST000541 | TST000541 | TST000541 | TST000541 | TST000541 | 80 |
| 81 | DOWEL PIN | 2 | 62M22 | 62M22 | 62M22 | 62M22 | 62M22 | 62M22 | 81 |
| 83 | SLINGER | 2 | 301GAF173 | 301GAF173 | 301GAF173 | 301GAF173 | 301GAF173 | 301GAF173 | 83 |
| 84 | SCREW | 2 | TST000542 | TST000542 | TST000542 | TST000542 | TST000542 | TST000542 | 84 |
| 87 | NUT (GEAR RETAINER) | 2 | TST000179 | TST000179 | TST000179 | TST000179 | TST000179 | TST000179 | 87 |
| **105 | OVERHAUL KIT | 1 | 308GAF6010 | 308GAF6010 | 308GAF6010 | 311GAF6010 | 311GAF6010 | 311GAF6010 | **105 |
| **900 | IDENT & INSTRUCTION GROUP | 1 | 202GAF4011 | 202GAF4011 | 202GAF4011 | 202GAF4011 | 202GAF4011 | 202GAF4011 | **900 |

* INCLUDED IN OVERHAUL KIT
** NOT SHOWN ON ILLUSTRATION

## GRS-SPL (GREASE / SPLASH)




310GAF810 / 00

## GRS-SPL (GREASE / SPLASH LUBE)

| ITEM | DESCRIPTION | QTY | 6H LIP SEAL | 6M LIP SEAL | 6L LIP SEAL | 6H MECH SEAL | 6M MECH SEAL | 6L MECH SEAL | ITEM |
|---|---|---|---|---|---|---|---|---|---|
| 2 | PLUG | 5 | 64AC4 | 64AC4 | G4AC4 | 64AC4 | 64AC4 | G4AC4 | 2 |
| 3 | GEAR CASE | 1 | 301GAF602 | 301GAF602 | 301GAF602 | 301GAF602 | 301GAF602 | 301GAF602 | 3 |
| 5 | SCREW | 10 | 75P40 | 75P40 | 75P40 | 75P40 | 75P40 | 75P40 | 5 |
| 6 | BREATHER | 1 | 5L223 | 5L223 | 5L223 | 5L223 | 5L223 | 5L223 | 6 |
| *7 | GASKET | 1 | 300GAF715 | 300GAF715 | 300GAF715 | 300GAF715 | 300GAF715 | 300GAF715 | *7 |
| 9 | GEAR KIT | 1 | 302GAF6008 | 302GAF6008 | 302GAF6008 | 302GAF6008 | 302GAF6008 | 302GAF6008 | 9 |
| *10 | SCREW | 8 | TST000539 | TST000539 | TST000539 | TST000539 | TST000539 | TST000539 | *10 |
| *14 | BEARING | 2 | 900639080506 | 900639080506 | 900639080506 | 900639080506 | 900639080506 | 900639080506 | *14 |
| *15 | SEAL (INTERNAL) | 4 | TST000543 | TST000543 | TST000543 | 300GAF199 | 300GAF199 | 300GAF199 | *15 |
| 16 | SCREW | 8 | 75P57 | 75P57 | 75P57 | 75P57 | 75P57 | 75P57 | 16 |
| 17 | FOOT GROUP | 1 | 306GAF166 | 306GAF166 | 306GAF166 | 306GAF166 | 306GAF166 | 306GAF166 | 17 |
| 18 | BEARING HOUSING | 1 | 312GAF006 | 312GAF006 | 312GAF006 | 313GAF006 | 313GAF006 | 313GAF006 | 18 |
| 19 | DOWEL PIN | 4 | 62M48 | 62M48 | 62M48 | 62M48 | 62M48 | 62M48 | 19 |
| 20 | LIFTING LUG | 2 | 201GAF451 | 201GAF451 | 201GAF451 | 201GAF451 | 201GAF451 | 201GAF451 | 20 |
| 21 | SCREW | 24 | 75P56 | 75P56 | 75P56 | 75P56 | 75P56 | 75P56 | 21 |
| 22 | CYLINDER | 1 | 900883063901 | 900883064001 | 900883064101 | 900883063901 | 900883064001 | 900883064101 | 22 |
| 23 | ROTOR GROUP | 1 | 300GAFH4028 | 300GAFM4028 | 300GAFL4028 | 300GAF4028 | 300GAFM4028 | 300GAFL4028 | 23 |
| 24 | BEARING HOUSING | 1 | 316GAF006 | 316GAF006 | 316GAF006 | 317GAF006 | 317GAF006 | 317GAF006 | 24 |
| 25 | KEY | 1 | 900639910406 | 900639910406 | 900639910406 | 900639910406 | 900639910406 | 900639910406 | 25 |
| 26 | PIPE FITTING | 2 | 40E9 | 40E9 | 40E9 | 40E9 | 40E9 | 40E9 | 26 |
| 27 | CAP | 2 | 40P58 | 40P58 | 40P58 | 40P58 | 40P58 | 40P58 | 27 |
| 29 | DRIVE COVER | 1 | 900883064601 | 900883064601 | 900883064601 | 900883064601 | 900883064601 | 900883064601 | 29 |
| 30 | SCREW | 8 | 75P189 | 75P189 | 75P189 | 75P189 | 75P189 | 75P189 | 30 |
| *31 | DRIVE SEAL | 1 | 60DD658 | 60DD658 | 60DD658 | 60DD658 | 60DD658 | 60DD658 | *31 |
| *35 | BEARING | 1 | 12BA215 | 12BA215 | 12BA215 | 12BA215 | 12BA215 | 12BA215 | *35 |
| *36 | BEARING | 1 | 12BA247 | 12BA247 | 12BA247 | 12BA247 | 12BA247 | 12BA247 | *36 |
| 40 | OIL LEVEL GAUGE | 2 | 40P31 | 40P31 | 40P31 | 40P31 | 40P31 | 40P31 | 40 |
| 42 | PLUG | 8 | ---------- | ---------- | ---------- | 64AC2 | 64AC2 | 64AC2 | 42 |
| 44 | PLUG | 4 | 76F92 | 76F92 | 76F92 | 76F92 | 76F92 | 76F92 | 44 |
| *54 | SHIM (0.003” THICK) | 1 | 200GAF732 | 200GAF732 | 200GAF732 | 200GAF732 | 200GAF732 | 200GAF732 | *54 |
| 55 | SHIM (0.010” THICK) | 1 | 201GAF732 | 201GAF732 | 201GAF732 | 201GAF732 | 201GAF732 | 201GAF732 | 55 |
| *56 | SHIM (0.0015/0.002” THICK) | 1 | 202GAF732 | 202GAF732 | 202GAF732 | 202GAF732 | 202GAF732 | 202GAF732 | *56 |
| 79 | WASHER (BEARING RETAINER) | 8 | 95A38Z | 95A38Z | 95A38Z | 95A38Z | 95A38Z | 95A38Z | 79 |
| 87 | NUT (GEAR RETAINER) | 2 | TST000179 | TST000179 | TST000179 | TST000179 | TST000179 | TST000179 | 87 |
| **105 | OVERHAUL KIT | 1 | 309GAF6010 | 309GAF6010 | 309GAF6010 | 310GAF6010 | 310GAF6010 | 310GAF6010 | **105 |
| **900 | IDENT & INSTRUCTION GROUP | 1 | 202GAF4011 | 202GAF4011 | 202GAF4011 | 202GAF4011 | 202GAF4011 | 202GAF4011 | **900 |

* INCLUDED IN OVERHAUL KIT
** NOT SHOWN ON ILLUSTRATION

Gardner Denver

**WARRANTY**
**SUTORBILT BLOWERS**
**Legend SERIES**

**GENERAL PROVISIONS AND LIMITATIONS**

Gardner Denver (the "Company") warrants to each original retail purchaser ("Purchaser") of its products from the Company or its authorized distributor that such products are, at the time of delivery to the Purchaser, made with good material and workmanship. No warranty is made with respect to:

1. Any product which has been repaired or altered in such a way, in the Company's judgment, as to affect the product adversely.
2. Any product which has, in the Company's judgment, been subject to negligence, accident, improper storage, or improper installation or application.
3. Any product which has not been operated or maintained in accordance with the recommendations of the Company.
4. Components or accessories manufactured, warranted and serviced by others.
5. Any reconditioned or prior owned product.

Claims for items described in (4) above should be submitted directly to the manufacturer.

**WARRANTY PERIOD**

The Company's obligation under this warranty is limited to repairing or, at its option, replacing, during normal business hours at an authorized service facility of the Company, any part which in its judgment proved not to be as warranted within the applicable Warranty Period as follows.

**BARE BLOWERS**

Basic grease lubricated bare blowers, consisting of all parts within, are warranted for 18 months from date of initial use or 24 months from date of shipment to the first purchaser, whichever occurs first. Basic dual splash lubricated bare blowers, consisting of all parts within, are warranted for 24 months from date of initial use or 30 months from date of shipment to the first purchaser, whichever occurs first. Any disassembly or partial disassembly of the blower, or failure to return the "unopened" blower per Company instructions, will be cause for denial of warranty.

**OTHER COMPONENTS**

All other components are warranted for 12 months from date of initial use or 18 months from date of shipment to first purchaser, whichever comes first. The Company reserves the right to withdraw the Warranty where evidence indicates application outside the stated performance area, or where there is evidence of abuse

**LABOR TRANSPORTATION AND INSPECTION**

The Company will provide labor, by Company representative or authorized service personnel, for repair or replacement of any product or part thereof which in the Company's judgment is proved not to be as warranted. Labor shall be limited to the amount specified in the Company's labor rate schedule.

Labor costs in excess of the Company rate schedules caused by, but not limited to, location or inaccessibility of equipment, or labor provided by unauthorized service personnel is not provided by this warranty.

All costs of transportation of product, labor or parts claimed not to be as warranted and, of repaired or replacement parts to or from such service facilities shall be borne by the Purchaser. The Company may require the return of any part claimed not to be as warranted to one of its facilities as designated by the Company, transportation prepaid by Purchaser, to establish a claim under this warranty. Replacement parts provided under the terms of the warranty are warranted for the remainder of the Warranty Period of the product upon which installed to the same extent as if such parts were original components.

**DISCLAIMER**

THE FOREGOING WARRANTY IS EXCLUSIVE AND IT IS EXPRESSLY AGREED THAT, EXCEPT AS TO TITLE, THE COMPANY MAKES NO OTHER WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY.

THE REMEDY PROVIDED UNDER THIS WARRANTY SHALL BE THE SOLE, EXCLUSIVE AND ONLY REMEDY AVAILABLE TO THE PURCHASER AND IN NO CASE SHALL THE COMPANY BE SUBJECT TO ANY OTHER OBLIGATIONS OR LIABILITIES. UNDER NO CIRCUMSTANCES SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, EXPENSES, LOSSES OR DELAYS HOWSOEVER CAUSED.

No statement, representation, agreement, or understanding, oral or written, made by any agent, distributor, representative, or employee of the Company which is not contained in this Warranty will be binding upon the Company unless made in writing and executed by an officer of the Company.

This warranty shall not be effective as to any claim which is not presented within 30 days after the date upon which the product is claimed not to have been as warranted. Any action for breach of this warranty must be commenced within one year after the date upon which the cause of action occurred.

Any adjustment made pursuant to this warranty shall not be construed as an admission by the Company that any product was not as warranted.

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**NOTES:**

**NOTES:**

**NOTES:**

*SB-7-637VER00*

Gardner Denver®

For additional information, contact your local representative or visit:
www.gardnerdenver.com/en-us/gdproducts/products/blowers

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ENERGY STAR PARTNER

CERTIFIED QUALITY MANAGEMENT SYSTEM ISO 9001:2008 ANAB DNV

MEMBER OF CAGI Compressed Air & Gas Institute

KNOW PRESSURE COMPRESSED AIR CHALLENGE

Please recycle after use.

Memo

BLOWER PRODUCTS

Gardner Denver

To: Distributors, Representatives and Personnel
Coded for Product Memos

Product Memo No. PD155
April 27, 2020

# "T" Version 6 Inch Sutorbilt Legend Product Launch

Gardner Denver is continuously striving to advance and improve our products in order to offer the best quality to our customers. With that said, we are pleased to announce the release of several improvements we have made to the 6" Legend product.

The new version has been up upgraded internally to a design that is similar to our 3-5" Legend products. To begin with, we have updated the units to have a true fixed end. On the gear end, we have removed the bearing clamp plates, and we have done the same on the drive end as well as removed the wave springs and the bolts for the clamp plates on DSL units. We have also removed all bearing spacers.

We have also upgraded the drive end bearings. By removing the wave springs from the assembly, the axial load experienced by the drive end bearings is eliminated. That allows us to use a cylindrical roller bearing on the drive shaft, and a deep groove ball bearing on the non-drive shaft.

Lastly, we have updated the oil slinger to a design that allows for easier assembly. This new design will prevent the shaft from being scratched upon assembly, which has been deemed to be the cause of shaft leaks in the past.

For the 6" Legend, the new design will be the "T" version. Our customer service team will manually update the current orders you have already placed with us on 6" Legend products to reflect this change. You will receive a new order acknowledgment when your order has been updated to the new design version. For new orders you will now replace the 6$^{th}$ digit of your current ordering part number from an "S" to a "T". For example, when ordering 6M Grease unit, you would order a GAFMDTA versus the previous GAFMDSA. The pricing will not change for this product, but for your reference, the new price book is attached to this memo, and is also available on GD Inside. It is also important that you relay this information to all OEM customers that you represent.

We have attached an FAQ section for additional information, and the updated O&M Manual is attached as well as published on GD Inside. As always, Gardner Denver would like to thank you for your business and support. If you have questions regarding this announcement, please contact Gardner Denver Product Management or your Territory Sales Manager.

Sincerely,

Jason A. Costigan

Jesse Klauser

Product Manager – Blower Products Product Specialist – Blower Products

## 6” Legend “T” Version FAQ Sheet

**Q: Why did we make this change?**
A: We made this change to the T version to simplify the build of the 6" Legend. With these changes the build of the 6" Legend build is now similar to the 3"-5" Legends. We have removed the bearing spacers and the wave springs from the build.

**Q: Does the performance of the blower change?**
A: No the performance of the blower does not change. It offers the same performance of the S version machine.

**Q: Do the blower dimensions change?**
A: No, the outside dimensions of the blower will not change. Replacing an S version machine with a T version machine is not a problem.

**Q: Do you still have parts for the S version machines?**
A: Yes, we will still be stocking the previous S version parts.

**Q: Will there be a new overhaul and maintenance kit required for the T version?**
A: Yes, there will be new overhaul kits. Part numbers are available in manual SB-7-637.

**Q: Are any new tools needed to maintain the T version?**
A: All tools needed to assemble are listed in Manual SB-7-637. With the true fixed end there are a few new tools that are needed for assembly.

# ACCEPTANCE FORM

| | |
|---|---|
| **Named Insured:** | Poplar Grove, Village of |
| **Quote Number:** | R1-1001282-2021-01 |
| **Policy Year:** | DEC 01, 2020 - DEC 01, 2021 |

| | |
|---|---|
| **Total Annual Premium** | **$65,833** |
| **Total Amount Due** | **$64,344** |

**Terms and Conditions**

- The Named Insured can only cancel the Policy at program anniversary and only if 90-day prior written notice of cancellation is given. If required notice is not given, full estimated premium is earned, due and payable.
- All terms and conditions of membership in the Illinois Counties Risk Management Trust are set forth in the Trust by-laws. A copy of this document is available for your review
- Per the Membership Agreement, the member must be with the Trust for 12 months prior to withdrawing and can only withdraw at anniversary date of effective date.
- The following must be received prior to binding:
  - Signed Acceptance Form
  - Intials Cancellation Clause
  - Insured's Contact Information
  - Insured's FEIN
  - Requested Payment Plan □ Annual ☒ 50/50 □ 25/6

**Acceptance Statement:**

Please accept this as a formal confirmation that all terms and conditions, attached scheduled items, and premiums proposed by the Illinois Counties Risk Management Trust are accepted effective 12/01/2020.

Signature of Official Date

# ICRMT INVOICE

**Named Insured:** Poplar Grove, Village of

**Quote Number:** R1-1001282-2021-01

**Policy Year:** DEC 01, 2020 - DEC 01, 2021

| | |
|---|---|
| **Total Annual Premium** | **$65,833** |
| **Total Amount Due** | **$64,344** |

**Premium Due by Effective Date of Coverage.**

Based upon the payment plan you select, the following down payment is due:

| | |
|---|---|
| Annual | $64,344 |
| 50/50 | $32,172 |
| 25/6 | $16,086 |

---

**Payment Coupon** Please Make Checks Payable to:

| | |
|---|---|
| Named Insured: | Poplar Grove, Village of |
| Quote Number: | R1-1001282-2021-01 |
| Package Premium Remitted: | |

Illinois Counties Risk Management Trust
6580 Solution Center
Chicago, IL 60677-6005

# ILLINOIS COUNTIES RISK MANAGEMENT TRUST

## *INSURANCE PROGRAM RENEWAL*

# Poplar Grove, Village of

**PRESENTED BY:**
Broadmoor Agency, Inc.

**Quote Number:**
R1-1001282-2021-01

**POLICY YEAR:**
DEC 01, 2020 - DEC 01, 2021

Administered by
IPMG

## ABOUT ICRMT

ICRMT is one of the leading insurance programs in Illinois, providing property, casualty, and workers' compensation coverages for Illinois public entities since 1983. Owned by its members and administered by IPMG, ICRMT provides an integrated approach to risk management, claims administration, and underwriting tailored to fit the needs of your entity.

### QUICK FACTS

**Size: 380+ members**

**Retention Rate: 97%**

**Total Premium: $81 million**

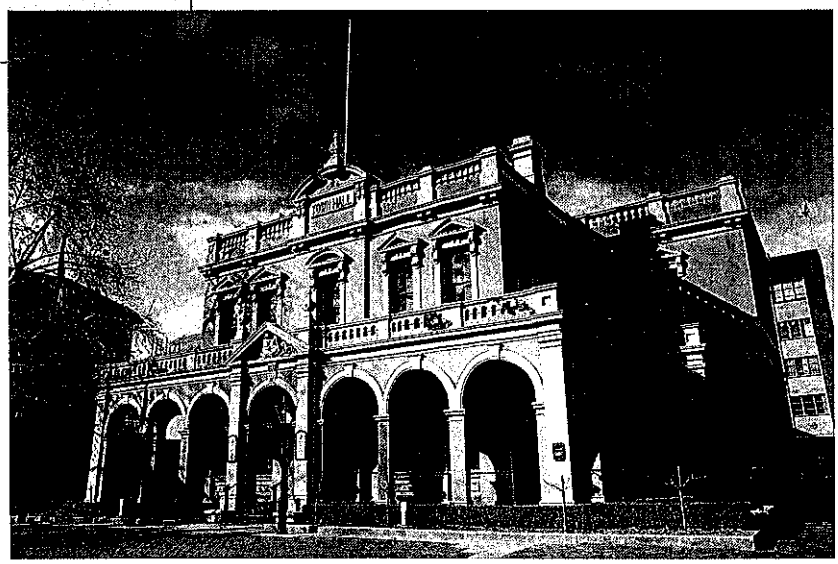
ICRMT provides broad coverages and the most comprehensive service package specifically designed to protect the entity's exposures and budgetary constraints.

### ENHANCED COVERAGES AVAILABLE

-PEDA Coverage available under WC

-Unemployment Insurance

-Crime Coverage up to $1,000,000



# PROGRAM MANAGEMENT

## Insurance Program Managers Group

### ACCOUNT EXECUTIVES


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### PROGRAM ADMINISTRATION


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**KIM DIEDERICH**
***ICRMT Account Assistant***
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630.485.5863

**GREGG PETERSON**
***President/CEO***

# RISK MANAGEMENT & LOSS CONTROL SERVICES

ICRMT Risk Management Services consultants deliver a catalog of resources with material expertise in public entity risk management. The staff has field-based experts in clinical medicine, physical therapy, and advanced degree safety experts. ICRMT's risk consultants have a background working in local law enforcement, fire, and emergency medical services.

The RMS consultants work with each entity to facilitate risk mitigation efforts through policy, training and engineering controls. These controls are delivered onsite and through online training options. ICRMT RMS consultants provide policy and training solutions for all lines of coverage with focus on industry and client loss trends and emerging risks.

## SERVICES INCLUDED

- Use of Force Training
- Jail Policies and Procedures Audits
- Policy and Procedure Implementation
- Auto/Driving Exposure Evaluation
- Employment Practices Strategies, Education, and Training
- Safety Committee Development
- Hiring and Management Strategies
- Law Enforcement Seminars
- Firefighter/EMS Training
- Regulatory Compliances
- Essential Functions Testing Policy
- Employee Drug Testing Policy
- Background Check Policy
- Supervisors/Leadership Development
- Loss Analysis and Trending
- Slip and Fall Prevention Program
- Supervisory/Personnel Safety Training
- Accident Investigation Training
- Hazard Communication Training
- Blood Borne Pathogens Training


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**JEFF BACIDORE**
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**KEVIN MADEIRA**
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**DEREK MADEIRA**
***Risk Management Consultant***
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630.203.5164

# CLAIMS MANAGEMENT SERVICES

IPMG Claims Management Services offers a full-service claims team specializing in the public entity sector. IPMG CMS services claims for property, casualty and workers compensation claims.

IPMG CMS has a staff of 39 including 21 seasoned claims professionals with an average claims experience of over ten years. IPMG CMS's leadership team boasts well over 20 years of experience. IPMG CMS's staff specializes in program business, including unique self-insured retention structures.

## SERVICES INCLUDED

- Dedicated service adjuster approach, which promotes service continuity and trust
- On-line claim reporting and investigation tool through In-Sight with loss experience access
- On-line claim review and claim report generation
- 24-hour contact on every new claim submission
- Clients are updated on all critical events and participate in all major claims decisions
- Quarterly claim file reviews
- Data analytics to quickly identify potential high cost claims
- Tailor made service plans
- Nurse Case Management

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**DONNA FROMM**
***WC Team Lead***
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**SUSANNE SKJERSETH**
***P&C Team Leader***
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# ICRMT FEATURES AND BENEFITS

## Who is an Insured

- An individual while appointed as a director or executive officer
- A volunteer, unpaid worker, leased or temporary worker
- A board member, commissioner, trustee, or council person
- An employee or staff member
- An elected or appointed official or a member of your governing body, board, commission, council or agency of yours
- A partnership or Joint Venture, including a mutual assistance pact, joint powers agreement or similar agreement
- Your Medical Directors in conjunction with the medical facilities covered under this Policy, but only with respect to their administrative duties on your behalf.

## Program Highlights

- Property and Casualty Policy is Non-Auditable
- Terrorism Coverage Included
- The ICRMT Trust Agreement contains a Resolution by the Executive Board making the program Non-Assessable
- Specialized Law Enforcement Risk Management Services
- Open Door Legal Consultation
- Tailored Risk Management Services
- Professional Property Appraisals
- Online Claims Reporting
- Crisis Management Assistance
- Enhanced Case Management
- PEDA Coverage Available
- Unemployment Insurance Program

**This is a summary of coverages provided. Please refer to the full policy for complete coverage, exclusions, and terms & conditions.**

# COVERAGE SUMMARY: GENERAL LIABILITY

## COVERAGE

| | LIMITS |
|---|---|
| Each Occurrence | $1,000,000 |
| General Annual Aggregate | $3,000,000 |
| Products/Completed Operations Annual Aggregate | $1,000,000 |
| Advertising and Personal Injury | $1,000,000 |
| Premises Medical Payments | |
| Each Person | $5,000 |
| Each Occurrence | $50,000 |

**Deductible: $1,000 each occurrence**

| | |
|---|---|
| Sexual Abuse Liability – Claims Made | |
| Each Occurrence | $1,000,000 |
| Annual Aggregate | $1,000,000 |
| Retroactive Date: **01/01/2019** | |
| Innocent Party Defense Coverage Included | |

**Deductible: $2,500**

## COVERAGES INCLUDE

- Liquor Liability
- Medical Professional (Excluding Doctors & Dentists)
- Special Events
- Terrorism
- Volunteers
- Non-Auditable
- Herbicides & Pesticides - $50,000 Coverage Limits
- Premises Liability

# COVERAGE SUMMARY: VIOLENT EVENT RESPONSE COVERAGE

## COVERAGE

| | LIMITS |
|---|---|
| Violent Event Response Coverage | |
| o Per Event Limit: | $500,000 |
| o Annual Aggregate Limit: | $500,000 |

**Deductible: $1,000 each occurrence**

## COVERAGES INCLUDE

- Crisis Investigation
- Personal Crisis Management Event Response Team
- Crisis Communication Support, Media Management, Public Relations
- Temporary Security Measures
- The following Sublimited Coverages:

| | |
|---|---|
| o Medical Expenses | $25,000 Per Person |
| o Counseling Service Expenses | $10,000 Per Person |
| o Funeral Service Expenses | $15,000 Per Person |
| o Per Event Crisis Team Services | $100,000 |
| o Memorialization Expenses | $250,000 |

# COVERAGE SUMMARY: AUTO LIABILITY & PHYSICAL DAMAGE

| AUTO LIABILITY | LIMITS |
|---|---|
| Each Occurrence | $1,000,000 |
| Auto Medical Payments | |
| Each Person | $5,000 |
| Each Occurrence | $25,000 |

**Deductible: $0 each occurrence**

## UNINSURED & UNDERINSURED MOTORIST LIABILITY

| | |
|---|---|
| Each Occurrence | $100,000 |

**Deductible: $0**

## AUTO PHYSICAL DAMAGE

| | |
|---|---|
| Total Scheduled Value | $683,919 |
| Total Agreed Value | $0 |
| Number of Vehicles | 12 |

**Comprehensive Per Loss Deductible: $1,000**
**Collision Per Loss Deductible: $1,000**
***Or as indicated on the Schedule**

## COVERAGES INCLUDE

| | |
|---|---|
| • Automatic Liability for Newly Acquired Vehicles (Non-Auditable) | Included |
| • Newly Acquired Automobiles Physical Damage (Non-Auditable) | $500,000 |
| • Hired/Non-Owned Liability | Included |
| • Hired Auto Physical Damage | Included |
| • Garagekeepers Legal Liability – per Occurrence | $100,000 |
| • Pollution Caused by Upset/Overturn | Included |
| • Commandeered Autos | Included |
| • Loss of Use and Lease Gap Coverage | Included |
| • Rental Reimbursement | Included |

# COVERAGE SUMMARY: PUBLIC OFFICIALS LIABILITY

## COVERAGE

| | LIMITS |
|---|---|
| Each Occurrence | $1,000,000 |
| Annual Aggregate | $1,000,000 |
| Retroactive Date: **01/01/2019** | |
| Employment Practice Liability | Included |
| Retroactive Date: **01/01/2019** | |
| Employee Benefits Liability | Included |
| Retroactive Date: **01/01/2019** | |

**Deductible: $2,500**

## COVERAGES INCLUDE

| | |
|---|---|
| • Employee Wage Reimbursement | |
| Each Occurrence | $10,000 |
| Annual Aggregate | $20,000 |
| • Non-Monetary Legal Defense | |
| Each Occurrence | $50,000 |
| Annual Aggregate | $50,000 |

- Sexual Harassment
- Discrimination
- Wrongful Termination
- FOIA/Open Meetings Act
- Attorney's Professional

# COVERAGE SUMMARY: EXCESS LIABILITY

| Coverage | Per Occurrence Limit | Excess Aggregate Limit |
|---|---|---|
| General Liability | $1,000,000/$3,000,000 | $7,000,000 |
| Auto Liability | $1,000,000 | $7,000,000 |
| Public Officials (Claims Made) | $1,000,000 | $7,000,000 |

## COVERAGES EXCLUDED

- Sanitary Sewer Backup
- Sexual Abuse
- Uninsured/Underinsured Motorist Coverage
- Workers Compensation and Employers Liability
- Unmanned Aircraft
- Cyber Liability
- Claims arising out of the actual or alleged transmission of a communicable disease or virus.

# COVERAGE SUMMARY: CYBER LIABILITY

## COVERAGE

| | LIMITS |
|---|---|
| Cyber Liability Coverage | |
| Each Claim | $1,000,000 |
| Annual Aggregate | $1,000,000 |
| Retroactive Date: **01/01/2019** | |

**Deductible: $5,000**

## COVERAGES INCLUDE

First Party Coverages:

- Business Interruption & Extra Expense
- Digital Data Recovery
- Network Extortion
- Ransomware Coverage

Third Party Coverages:

- Cyber, Privacy and Network Security Liability
- Electronic, Social and Printed Media Liability

## SERVICES AVAILABLE

- Systems Testing and Consulting
- Online Risk Management Resources
- Training and Educational Programs

# COVERAGE SUMMARY: PROPERTY

Blanket Limit of Insurance applies to schedule and appraised Buildings and Business Personal Property that are valued on a Replacement Cost basis. Any property that has not yet been appraised is subject to the 125% Margin Clause.

| COVERED PROPERTY | LIMITS |
|---|---|
| Building Value | $31,315,530 |
| Business Personal Property Including Stationary EDP | $443,600 |
| Personal Property of Others | $100,000 |
| Newly Constructed or Aquired Property | $1,000,000 |
| Footbridges | $100,000 |
| Covered Property in Transit | $1,000,000 |

**Deductible: $1,000**

***Or as indicated on the Schedule**

## ADDITIONAL PROPERTY COVERAGES

| | |
|---|---|
| Earthquake (including mine subsidence) | $5,000,000 |
| Program Aggregate | $250,000,000 |

**Deductible: $50,000 or 2% of the damaged location; whichever is greater**

| | |
|---|---|
| Flood | $5,000,000 |
| Program Aggregate (Excluding Flood Zone A and V) | $250,000,000 |

**Deductible: $50,000 per occurrence**

## COVERED COSTS & EXPENSES

| | |
|---|---|
| Business Income/Extra Expense | $1,000,000 |
| Business Income/Extra Expense Increased Limits | $0 |
| Course of Construction (Builders Risk) | $1,000,000 |
| Debris Removal (whichever is greater) | 25% or $500,000 |
| Pollutant Cleanup and Removal, aggregate in any one Policy Year | $100,000 |
| Fire Department Service Charge | $5,000 |
| Fire Protection Equipment Discharge | $5,000 |
| Ordinance or Law Coverage | $10,000,000 |
| Preservation of Property | $100,000 |
| Protection of Property | $100,000 |

# COVERAGE SUMMARY: PROPERTY (cont.)

## SUPPLEMENT COVERAGE

| | LIMITS |
|---|---|
| Unnamed Locations - Unintentional E&O | $1,000,000 |
| Communication Towers | $100,000 |
| Tree, Shrubs, and Plants are subject to a maximum per item of | |
| Per Item | $25,000 |
| Per Occurrence | $100,000 |
| Golf Course Tees and Greens | |
| Per Item | $25,000 |
| Per Occurrence | $100,000 |
| Interruption of Computer Operations | |
| Per occurrence | $50,000 |
| Annual Aggregate | $100,000 |
| Personal Effects | $100,000 |
| Retaining Walls and Other Outdoor Walls | $10,000 |
| Underground Sprinkler System | $100,000 |
| Utility Services - Direct Damage | $1,000,000 |
| Utility Services - Time Element | $1,000,000 |
| Limited Fungus/Fungi, Wet Rock, and Dry Rot Coverage | |
| Direct Damage | $15,000 |
| Business Income and Extra Expense | $15,000 |
| Extra Expense Number of Days | 30 days |
| Ancillary Buildings | $10,000 |
| Sewer Backup | $250,000 |
| Outdoor Property - including but not limited to: | $100,000 |

| | | |
|---|---|---|
| Fences | Goal Posts | Traffic Lights/Control Boxes |
| Light Fixtures/Poles | Playground Equipment | Bleachers |
| Road Signs | Scoreboards | Ticket Booths |
| Non-Utility Poles | Benches | Dugouts |
| Fountains | Statues | Bike Racks |
| Monuments | Fire Hydrants | |

All Supplemental Property Coverages are subject to a $5,000 minimum deductible

# COVERAGE SUMMARY: MOBILE EQUIPMENT & MISC. ARTICLES

## SCHEDULED LIMITS

| | LIMITS |
|---|---|
| Mobile Equipment greater than or equal to $10,000 per item | $266,890 |
| Mobile Equipment less than $10,000 per item | $27,768 |
| Other | $53,447 |
| Tools | $94,756 |

**Deductible: $1,000**

***Or as indicated on the Schedule**

## COVERED COSTS & EXPENSES

| | |
|---|---|
| Fine Arts | $1,000,000 |
| Accounts Receivable | $1,000,000 |
| Valuable Papers and Records | $1,000,000 |
| Contractors Equipment Non-Owned | |
| Per Item | $100,000 |
| Per Occurrence | $250,000 |
| Rental Expense Reimbursement | $10,000 |
| Pollutant Clean-Up | $100,000 |
| Fire Department Equipment | $50,000 |
| Musical Instruments, Athletic Equipment & Uniforms | $500,000 |
| Unscheduled Watercrafts | $100,000 |

# COVERAGE SUMMARY: EQUIPMENT BREAKDOWN

| COVERAGE | LIMIT |
|---|---|
| Total Building and Contents Value | $31,759,130 |

**Deductible: $1,000**

**BI/EE & Utility Interruption Deductible: 24 Hours**

## COVERAGE EXTENSION

| | |
|---|---|
| Combined Business Income | Included |
| Combined Extra Expense | Included |
| Spoilage Damage | Included |
| Utility Interruption - Time Element | $10,000,000 |
| Electronic Data or Media | $10,000,000 |
| Expediting Expenses | Included |
| Ordinance or Law | $10,000,000 |
| Hazardous Substance, Contamination, Pollutants | $10,000,000 |
| Newly Acquired Property | $1,000,000 |
| Debris Removal | 25% or $500,000 |
| Water Damage | Included |

# COVERAGE SUMMARY: CRIME

| COVERAGE | LIMIT |
|---|---|
| Blanket Employee Dishonesty | $500,000 |
| Loss Inside the Premises - Money & Securities | $500,000 |
| Loss Outside the Premises | $500,000 |
| Money Orders and Counterfeit Currency | $500,000 |
| Depositors Forgery or Alterations | $500,000 |
| Computer Fraud | $500,000 |
| Funds Transfer Fraud | $500,000 |

**Deductible: $1,000**

The ICRMT Crime Form includes coverage for any of your officials who are required by law to give bonds for the faithful performance of their service against Loss through the failure of any Employee under the supervision of that official to faithfully perform his or her duties as prescribed by law and will meet the requirements for Public Officials bonds up to the statutory limit or policy limit, whichever is less.

# COVERAGE SUMMARY: WORKERS' COMPENSATION

## COVERAGE

| | LIMIT |
|---|---|
| Workers' Compensation | Statutory |
| Employer's Liability Limit | |
| Each Accident | $2,500,000 |
| Each Employee for Disease | $2,500,000 |

**Deductible: $0**

## ICRMT FEATURES AND BENEFITS

- Volunteers Covered
- Payrolls are subject to an annual audit
- Enhanced Case Management
- Tailored Risk Management Services
- Online Claims Reporting
- Crisis Mangement Assistance
- Terrorism Coverage Inlcuded
- ICRMT Trust Agreement contains a resolution making the program non-assessable

# COVERAGE SUMMARY: WC PREMIUM CALCULATION

| CODE | CLASSIFICATION | ESTIMATED PAYROLL | RATE | MANUAL PREMIUM |
|---|---|---|---|---|
| 5506 | Street & Road | $225,000 | 8.44 | $18,990 |
| 7520 | Waterworks Operation | $0 | 3.80 | $0 |
| 7580 | Sewage Disposal Plant | $0 | 3.67 | $0 |
| 8810 | Clerical | $165,000 | 0.55 | $908 |
| 9102 | Parks | $5,000 | 5.47 | $274 |
| 9402 | Street Cleaning | $0 | 4.30 | $0 |
| | TOTALS | **$395,000** | | **$20,171** |

| | | |
|---|---|---|
| Gross Annual Premium | | $20,171 |
| Increased Limit Multiplier | 1.02 | $20,574 |
| Minimum Premium | $1,000 | $20,574 |
| Experience Modifier | 0.94 | $19,340 |
| Schedule Modifier | 0.80 | $15,472 |
| Expense Modifier | | $15,472 |
| Subtotal | | $15,472 |
| Premium Discount | 7.40% | $14,327 |
| **Total Annual Premium** | | **$14,327** |

# PREMIUM SUMMARY

Presented By:
**Illinois Counties RIsk Management Trust**

| | |
|---|---|
| **Named Insured:** | Poplar Grove, Village of |
| **Quote Number:** | R1-1001282-2021-01 |
| **Policy Year:** | DEC 01, 2020 - DEC 01, 2021 |

| **Coverage Parts** | **Premium** |
|---|---|
| General Liability | Included |
| Law Enforcement Liability | Not Covered |
| Auto | Included |
| Public Officials Liability - Claims Made | Included |
| Property | Included |
| Inland Marine | Included |
| Equipment Breakdown | Included |
| Sales Tax Interruption | Not Covered |
| Crime | Included |
| Cyber Liability | Included |
| Excess Liability | Included |
| Package Premium | $51,506 |
| Workers' Compensation | $14,327 |
| **Total Annual Premium** | **$65,833** |
| Total Premium Credit | $-1,489 |
| **Total Amount Due** | **$64,344** |

| VEH # | YEAR | MAKE | MODEL | VIN | COMP. DED. | COLL. DED. | AGREED VALUE | ORIGINAL COST NEW |
|---|---|---|---|---|---|---|---|---|
| 1 | 2012 | Ford | F250 | A33351 | $1,000 | $1,000 | | $20,884 |
| 2 | 2011 | Ford | Ranger | B06138 | $1,000 | $1,000 | | $15,085 |
| 3 | 2013 | GMC | Sierra 2500 | 308779 | $1,000 | $1,000 | | $29,682 |
| 4 | 2016 | GMC | Sierra 3500 | 110362 | $1,000 | $1,000 | | $48,262 |
| 5 | 2017 | Big Tex | Trailer - Utility 355A-12X | 071336 | $1,000 | $1,000 | | $2,148 |
| 6 | 2011 | Chevrolet | Silverado | 415924 | $1,000 | $1,000 | | $16,350 |
| 7 | 2018 | PJ Trailer | Trailer Tri-Axle | 284445 | $1,000 | $1,000 | | $8,000 |
| 8 | 2006 | International | Truck | 240749 | $1,000 | $1,000 | | $92,859 |
| 9 | 2007 | International | Truck | 527684 | $1,000 | $1,000 | | $94,669 |
| 10 | 2019 | Chevrolet | Silverado | 245863 | $1,000 | $1,000 | | $30,799 |
| 11 | 2019 | Isuzu | Street Sweeper | 900818 | $1,000 | $1,000 | | $165,265 |
| 12 | 2020 | International | HV507 | 2729 | $1,000 | $1,000 | | $159,916 |
| | | | | **TOTAL AGREED VALUE** | | | **$0** | |
| | | | | **TOTAL ORIGINAL COST NEW** | | | **$683,919** | |
| | | | | **TOTAL INSURED VALUE** | | | **$683,919** | |

| LOC # | DESCRIPTION | ADDRESS | OCCU-PANCY | VALUATION | BUILDING VALUE | BPP VALUE | DEDUCTIBLE |
|---|---|---|---|---|---|---|---|
| 01.01 | Dog and Cat Groomer | 100 South State Street Poplar Grove, IL 61065 | Other Public Building | Replacement Cost / Margin Clause | $116,280 | $0 | $1,000 |
| 01.02 | Well #2/Pump House | 100 South State Street Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $516,120 | $18,100 | $1,000 |
| 02.01 | Garage | 200 North Hill Street Poplar Grove, IL 61065 | Garage | Replacement Cost / Margin Clause | $29,580 | $10,800 | $1,000 |
| 02.02 | New Village Hall | 200 North Hill Street Poplar Grove, IL 61065 | Office | Replacement Cost / Margin Clause | $1,705,440 | $163,000 | $1,000 |
| 02.03 | PIO - Flag pole, backboard, tennis court, bench, signage, trash bins, light pole | 200 North Hill Street Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $170,442 | $0 | $1,000 |
| 03.01 | Lions Park Pavilion | 229 Summit Street Poplar Grove, IL 61065 | Parks Buildings | Replacement Cost / Margin Clause | $6,120 | $0 | $1,000 |
| 03.02 | Lions Park Restrooms | 229 Summit Street Poplar Grove, IL 61065 | Parks Buildings | Replacement Cost / Margin Clause | $39,780 | $1,100 | $1,000 |
| 03.03 | Maintenance Garage | 229 Summit Street Poplar Grove, IL 61065 | Other Public Building | Replacement Cost / Margin Clause | $62,220 | $24,200 | $1,000 |
| 03.04 | Concession Stand with Pavilion | 229 Summit Street Poplar Grove, IL 61065 | Other Public Building | Replacement Cost / Margin Clause | $170,340 | $22,200 | $1,000 |

| LOC # | DESCRIPTION | ADDRESS | OCCU-PANCY | VALUATION | BUILDING VALUE | BPP VALUE | DEDUCTIBLE |
|---|---|---|---|---|---|---|---|
| 03.05 | PIO - Flag pole, bollards, table, backstop, bench, fencing, bleachers, light pole, playground | 229 Summit Street Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $145,350 | $0 | $1,000 |
| 04.01 | Memorial Park Gazebo | West Main and State Street Poplar Grove, IL 61065 | Parks Buildings | Replacement Cost / Margin Clause | $7,140 | $0 | $1,000 |
| 04.02 | Memorial Park Pavilion | West Main and State Street Poplar Grove, IL 61065 | Parks Buildings | Replacement Cost / Margin Clause | $45,900 | $0 | $1,000 |
| 04.03 | Sign Pavilion | West Main and State Street Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $2,040 | $0 | $1,000 |
| 04.04 | PIO - bench, table, flag pole, bike rack, memorial | West Main and State Street Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $16,932 | $0 | $1,000 |
| 05.01 | Lift Station Countryside Mall | 13505 Harvest Way Poplar Grove, IL 61065 | Water & Sewer Treatmen t | Replacement Cost / Margin Clause | $138,720 | $0 | $1,000 |
| 05.02 | PIO - Generator-50 KW, bollards, light pole | 13505 Harvest Way Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $46,818 | $0 | $1,000 |
| 06.01 | Lift Station Oak Lawn | 4194 Dawson Lake Road Poplar Grove, IL 61065 | Water & Sewer Treatmen t | Replacement Cost / Margin Clause | $187,680 | $0 | $1,000 |

| LOC # | DESCRIPTION | ADDRESS | OCCU-PANCY | VALUATION | BUILDING VALUE | BPP VALUE | DEDUCTIBLE |
|---|---|---|---|---|---|---|---|
| 06.02 | PIO - Generator-30 KW, fencing | 4194 Dawson Lake Road Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $33,762 | $0 | $1,000 |
| 07.01 | Lift Station Ray St. | 203 Beaver Street Poplar Grove, IL 61065 | Water & Sewer Treatmen t | Replacement Cost / Margin Clause | $127,500 | $0 | $1,000 |
| 07.02 | PIO - Generator-30 KW, guard rail, bollards | 203 Beaver Street Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $32,028 | $0 | $1,000 |
| 08.01 | Lift Station Waco Dr. #1 | 1000 Waco Drive Poplar Grove, IL 61065 | Water & Sewer Treatmen t | Replacement Cost / Margin Clause | $232,560 | $0 | $1,000 |
| 08.02 | PIO - Generator-80 KW, fencing | 1000 Waco Drive Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $58,752 | $0 | $1,000 |
| 09.01 | Lift Station Waco Dr. #2 | 502 Waco Drive Poplar Grove, IL 61065 | Water & Sewer Treatmen t | Replacement Cost / Margin Clause | $139,740 | $0 | $1,000 |
| 10.01 | Lift Station Whiting Rd. | 5500 Whiting Road Poplar Grove, IL 61065 | Water & Sewer Treatmen t | Replacement Cost / Margin Clause | $237,660 | $0 | $1,000 |
| 11.01 | Lift Station Woodstock Rd. | 291 Prairie Knoll Drive Poplar Grove, IL 61065 | Water & Sewer Treatmen t | Replacement Cost / Margin Clause | $189,720 | $0 | $1,000 |
| 11.02 | PIO - Generator-45 KW, fencing | 291 Prairie Drive Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $44,676 | $0 | $1,000 |

| LOC # | DESCRIPTION | ADDRESS | OCCU-PANCY | VALUATION | BUILDING VALUE | BPP VALUE | DEDUCTIBLE |
|---|---|---|---|---|---|---|---|
| 12.01 | Lift Station - Bullard Street | 105 Bullard Street Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $46,920 | $0 | $1,000 |
| 13.01 | North Plant - Lab Building | 610 South State Street Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $1,951,260 | $63,500 | $1,000 |
| 13.02 | Generator N-14 | 610 South State Street Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $285,600 | $0 | $1,000 |
| 13.03 | Main Lift Station | 610 South State Street Poplar Grove, IL 61056 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $236,640 | $0 | $1,000 |
| 13.04 | Internal Lift Station | 610 South State Street Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $97,920 | $0 | $1,000 |
| 13.05 | Fine Screen Building | 610 South State Street Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $274,380 | $0 | $1,000 |
| 13.06 | Digesters/SBR Tanks/Equalization Tanks | 610 South State Street Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $3,259,920 | $0 | $1,000 |
| 13.07 | Press Building | 610 South State Street Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $1,178,100 | $0 | $1,000 |
| 13.08 | Valve Pit | 610 South State Street Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $26,520 | $0 | $1,000 |

| LOC # | DESCRIPTION | ADDRESS | OCCU-PANCY | VALUATION | BUILDING VALUE | BPP VALUE | DEDUCTIBLE |
|---|---|---|---|---|---|---|---|
| 13.09 | PIO - Bollards, fencing | 610 South State Street Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $25,806 | $0 | $1,000 |
| 14.01 | South Plant | 12211 Illinois 76 Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $2,610,180 | $60,200 | $1,000 |
| 14.02 | Generator V-12 | 12211 Illinois 76 Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $541,620 | $0 | $1,000 |
| 14.03 | Chemical Storage Building | 12211 Illinois 76 Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $264,180 | $0 | $1,000 |
| 14.04 | Internal Lift Station | 12211 Illinois 76 Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $62,220 | $0 | $1,000 |
| 14.05 | Sludge Drying Beds | 12211 Illinois 76 Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $58,140 | $0 | $1,000 |
| 14.06 | Digesters | 12211 Illinois 76 Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $1,153,620 | $0 | $1,000 |
| 14.07 | Digester Blower Building | 12211 Illinois 76 Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $538,560 | $0 | $1,000 |
| 14.08 | SBR Tanks/Equalization Tank | 12211 Illinois 76 Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $4,317,660 | $0 | $1,000 |

| LOC # | DESCRIPTION | ADDRESS | OCCU-PANCY | VALUATION | BUILDING VALUE | BPP VALUE | DEDUCTIBLE |
|---|---|---|---|---|---|---|---|
| 14.09 | Valve Pit | 12211 Illinois 76 Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $84,660 | $0 | $1,000 |
| 14.10 | Influent Building | 12211 Illinois 76 Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $2,116,500 | $0 | $1,000 |
| 14.11 | Flow Meter Vault | 12211 Illinois 76 Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $23,460 | $0 | $1,000 |
| 14.12 | Main Lift Station | 12211 Illinois 76 Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $324,360 | $0 | $1,000 |
| 14.13 | Lagoon - Vacant | 12211 Illinois 76 Poplar Grove, IL 61065 | Vacant Land | Actual Cash Value | $83,640 | $0 | $1,000 |
| 14.14 | Sand Filter Valve Pit | 12211 Illinois 76 Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $43,860 | $0 | $1,000 |
| 14.15 | PIO - Fencing, gate, bollards, light pole | 12211 Illinois 76 Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $57,528 | $0 | $1,000 |
| 15.01 | Salt Storage Shed | 301 Edson Road Poplar Grove, IL 61065 | Storage | Replacement Cost / Margin Clause | $57,120 | $0 | $1,000 |
| 15.02 | Truck Storage Shed | 301 Edson Road Poplar Grove, IL 61065 | Storage | Replacement Cost / Margin Clause | $95,880 | $46,100 | $1,000 |
| 15.03 | Garage/Storage | 301 Edson Road Poplar Grove, IL 60165 | Garage | Replacement Cost / Margin Clause | $94,860 | $34,400 | $1,000 |

| LOC # | DESCRIPTION | ADDRESS | OCCU-PANCY | VALUATION | BUILDING VALUE | BPP VALUE | DEDUCTIBLE |
|---|---|---|---|---|---|---|---|
| 15.04 | PIO - Fencing, fuel tank, propane tank, light pole | 301 Edson Road Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $31,620 | $0 | $1,000 |
| 16.01 | Well #3/Pump House | Route 173 and West Grove Street Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $433,500 | $0 | $1,000 |
| 16.02 | Water Tower #3 - 150K Gal | Route 173 and West Grove Street Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $1,050,600 | $0 | $1,000 |
| 16.03 | PIO - Fencing | Route 173 and West Grove Street Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $11,118 | $0 | $1,000 |
| 17.01 | Well #4/Pump House | 4420 Menge Lane Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $449,820 | $0 | $1,000 |
| 17.02 | Water Tower #2 - 150K Gal | 4420 Menge Lane Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $1,236,240 | $0 | $1,000 |
| 17.03 | PIO - Storage Box | 4420 Menge Lane Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $306 | $0 | $1,000 |
| 18.01 | Well #5 and #6/ Pump House | 4870 Woodstock Road Poplar Grove, IL 61065 | Water & Sewer Treatment | Replacement Cost / Margin Clause | $741,540 | $0 | $1,000 |

| LOC # | DESCRIPTION | ADDRESS | OCCU-PANCY | VALUATION | BUILDING VALUE | BPP VALUE | DEDUCTIBLE |
|---|---|---|---|---|---|---|---|
| 19.01 | Water Tower - 150K Gal | 228 Boeing Trail Poplar Grove, IL 61065 | Water & Sewer Treatmen t | Replacement Cost / Margin Clause | $1,067,940 | $0 | $1,000 |
| 19.02 | PIO - Tornado Siren, bench | 228 Boeing Trail Poplar Grove, IL 61065 | Property in the Open | Replacement Cost / Margin Clause | $30,804 | $0 | $1,000 |
| 20.01 | Well #7/Pump House-Vacant | Poplar Grove and Orth Road Poplar Grove, IL 61065 | Water & Sewer Treatmen t | Actual Cash Value | $114,240 | $0 | $1,000 |
| 21.01 | Water Tower #7 - 300K Gal | 12540 Poplar Grove Road Poplar Grove, IL 61065 | Water & Sewer Treatmen t | Replacement Cost / Margin Clause | $1,560,600 | $0 | $1,000 |
| 23.01 | PIO - Sherman Oaks Park | , IL | Property in the Open | Replacement Cost / Margin Clause | $76,704 | $0 | $1,000 |
| 24.01 | PIO - West Grove Neighborhood Park | , IL | Property in the Open | Replacement Cost / Margin Clause | $23,256 | $0 | $1,000 |
| 25.01 | PIO - Bel-Air Park | , IL | Property in the Open | Replacement Cost / Margin Clause | $33,762 | $0 | $1,000 |
| 26.01 | PIO - South Poplar Grove Cementary | , IL | Property in the Open | Replacement Cost / Margin Clause | $9,486 | $0 | $1,000 |
| 27.01 | PIO - North Boone Fire Department | , IL | Property in the Open | Replacement Cost / Margin Clause | $29,580 | $0 | $1,000 |
| 28.01 | Vacant Land | Park Street Poplar Grove, IL 61065 | Vacant Land | Agreed Amount | $0 | $0 | $1,000 |

| | |
|---|---|
| TOTAL BUILDING VALUE | $31,315,530 |
| TOTAL BPP VALUE | $443,600 |
| TOTAL PROPERTY IN THE OPEN VALUE | |
| TOTAL INSURED VALUE | $31,759,130 |

**Mobile Equipment greater than or equal to $10,000 per item**

| IM # | YEAR | DESCRIPTION | MAKE/MODEL | SERIAL NUMBER | DEDUCTIBLE | VALUE |
|---|---|---|---|---|---|---|
| 3 | 2017 | Mower - MX5200F | Kubota | 10655 | $1,000 | $18,200 |
| 4 | 2017 | Tractor - Cab/Endloader - Front M5 111 | Kubota | 54079/A3068 | $1,000 | $61,745 |
| 6 | 2017 | Excavator - KX033-4 | Kubota | 10535 | $1,000 | $44,000 |
| 15 | | Generator - Portable | KatoLite | | $1,000 | $20,000 |
| 16 | | Mower - Batwing | John Deere | | $1,000 | $20,000 |
| 17 | | Mower - Finish 3Pt | Woods | | $1,000 | $10,000 |
| 18 | 1995 | Rover - RD11 | Wacker | | $1,000 | $20,000 |
| 20 | 2005 | Spreader - Sludge | Kuhn Knight | | $1,000 | $20,000 |
| 22 | | Mower - MX2500F | Kubota | | $1,000 | $15,200 |
| 23 | | Tractor | Kubota | 1HC0C12 | $1,000 | $37,745 |

**Mobile Equipment less than $10,000 per item**

| IM # | YEAR | DESCRIPTION | MAKE/MODEL | SERIAL NUMBER | DEDUCTIBLE | VALUE |
|---|---|---|---|---|---|---|
| 1 | | Plow - 8'6" For Dump Truck #110362 | Boss | | $1,000 | $4,822 |
| 2 | | Spreader | | | $1,000 | $5,946 |
| 5 | 2017 | Mower - Brush Hog | Woods | 069034 | $1,000 | $2,150 |
| 9 | 1997 | Salt Spreader | | | $1,000 | $5,398 |
| 10 | | Snow Blade | Flink | 1739 | $1,000 | $1,200 |
| 13 | 2006 | Tractor/Mower | Lesco | Z80014 | $1,000 | $6,252 |
| 19 | | Saw - Walk Behind | | | $1,000 | $2,000 |

**Other**

| IM # | YEAR | DESCRIPTION | MAKE/MODEL | SERIAL NUMBER | DEDUCTIBLE | VALUE |
|---|---|---|---|---|---|---|
| 7 | 2000 | Portable Sampler Testing Kit | Isco-GIs | L00115 | $1,000 | $1,890 |
| 8 | 2000 | Storm Box | Precision System | 351 | $1,000 | $1,557 |
| 14 | | Generator - Portable | Caterpillar | | $1,000 | $50,000 |

**Tools**

| IM # | YEAR | DESCRIPTION | MAKE/MODEL | SERIAL NUMBER | DEDUCTIBLE | VALUE |
|---|---|---|---|---|---|---|
| 11 | 1998 | Power Washer | | 32041157 | $1,000 | $1,000 |
| 12 | | Snow Plow Blades (6) | | | $1,000 | $46,300 |
| 21 | | Miscellaneous Tools & Equipment <$1,000 | | | $1,000 | $3,596 |
| 24 | | Welder | | | $1,000 | $3,600 |
| 25 | | + 10% Unscheduled Items | | | $1,000 | $40,260 |
| | | | **TOTAL INSURED VALUE** | | **$442,861** | |

**RESOLUTION NUMBER: 20-38**

**A RESOLUTION OF THE VILLAGE OF POPLAR GROVE, ILLINOIS TO APPROVE AND AUTHORIZE THE VILLAGE PRESIDENT TO EXECUTE A RENEWAL AGREEMENT WITH ILLINOIS COUNTIES RISK MANAGEMENT TRUST TO SUPPLY WORKER'S COMPENSATION AND LIABILITY INSURANCE**

**WHEREAS**, the Village of Poplar Grove, Illinois ("Village") has a need to provide worker's compensation and liability insurance for all temporary and permanent employees and volunteers of the Village; and

**WHEREAS**, Illinois Counties Risk Management Trust ("ICRMT") contracts with municipalities to provide various insurance and risk management services, including worker's compensation and liability insurance; and

**WHEREAS**, the Village desires to renew its contract with ICRMT to provide worker's compensation and liability insurance for the period December 1, 2020, until December 1, 2021; and

**WHEREAS**, the Village and ICRMT have reached an accord as to certain terms and conditions which shall apply to ICRMT's provision of worker's compensation and liability insurance to the Village; and

**WHEREAS**, such terms and conditions are memorialized in an Agreement, a copy of which is attached hereto as Exhibit A and incorporated herein ("Agreement"); and

**WHEREAS**, the Village has determined it is in the best interest of the Village and its citizens to enter into the Agreement.

**NOW THEREFORE, BE IT RESOLVED** by the Village President and Board of Trustees of the Village of Poplar Grove, Illinois as follows:

1. The above recitals are incorporated herein and made a part hereof.

2. The Village hereby accepts and approves the Agreement attached hereto as Exhibit A, or one in substantially similar form.

3. The Village President and Village Clerk are hereby authorized to execute and attest the Agreement.

PASSED UPON MOTION BY _____

SECONDED BY _____

BY ROLL CALL VOTE THIS ____ DAY OF _____, 2020

AS FOLLOWS:

VOTING “AYE”: _____

_____

VOTING “NAY”: _____

_____

ABSENT, ABSTAIN, OTHER _____

_____

APPROVED_____, 2020

_____
VILLAGE PRESIDENT

ATTEST:

_____
VILLAGE CLERK

# EXHIBIT A- AGREEMENT

**ORDINANCE NO.** 20-27

**AN ORDINANCE OF THE VILLAGE OF POPLAR GROVE AUTHORIZING THE DISPOSAL OF CERTAIN PERSONAL PROPERTY OWNED BY THE VILLAGE OF POPLAR GROVE**

**WHEREAS,** the Village of Poplar Grove, Illinois ("Village") owns certain items of personal property namely a refrigerator and cabinet (the "Property"); and

**WHEREAS**, the Property was used by the Village but is no longer necessary or useful to, or for the best interest of the Village; and

**WHEREAS**, 65 ILCS 5/11/76-4, authorizes the Village to sell or dispose of personal property, which is no longer necessary or useful to, or for the best interest of the Village; and

**WHEREAS**, it is the opinion of the corporate authorities of the Village that it is no longer, necessary, or useful to, or in the best interest of the Village to retain the Property; and

**WHEREAS**, the Property has been deemed without value and the Village desires to authorize the disposal of the refrigerator by appliance pick up and disposal and the Village desires to authorize the disposal of the cabinet by throwing it away.

**NOW THEREFORE**, be it ordained by the President and Board of Trustees of the Village of Poplar Grove, Illinois as follows:

1. The above recitals are incorporated herein and made a part hereof.

2. Pursuant to 65 ILCS 5/11-76-4, the President and Board of Trustees find that the Property is no longer necessary or useful to the Village and the best interest of the Village will be served by the permanent disposal of the Property as it has little to no value for purposes of a sale.

3. The President is hereby authorized to execute any documents necessary to effectuate the disposal contemplated herein and the Village Clerk to attest the same.

4. Except as amended in this Ordinance, all other provisions and terms of Village Code of Ordinances shall remain in full force and effect as previously enacted except that those ordinances, or parts thereof, in conflict herewith are hereby repealed to the extent of such conflict.

5. This Ordinance shall be in full force and effect after its approval, passage and publication in pamphlet form as required by law.

PASSED UPON MOTION BY _____

SECONDED BY _____

BY ROLL CALL VOTE THIS _____ DAY OF _____, 2020

AS FOLLOWS:

VOTING “AYE”: _____

_____

VOTING “NAY”: _____

_____

ABSENT, ABSTAIN, OTHER _____

_____

APPROVED_____, 2020

ATTEST:

_____ _____

CLERK PRESIDENT