



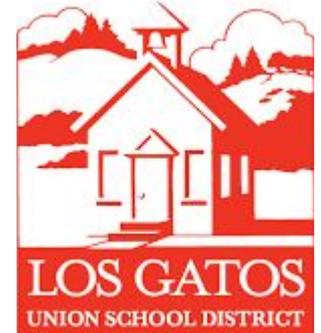
DRAFT

Los Gatos USD

Renewable Energy Update

Nate Smith-Ide – ForeFront Power, Manager

November 2020





Los Gatos USD – Pricing and Savings

| Site | PPA Escalator | Solar System Size | Y1 Production (kWh) | % Energy Offset | Current Bill | Year 1 Savings | Year 1 Savings (%) | 20 Year Savings |
|---------------------|---------------|-------------------|---------------------|-----------------|------------------|-----------------|--------------------|--------------------|
| Fisher MS | 0% | 376 | 617,283 | 90% | \$164,942 | \$18,159 | 11% | \$1,189,881 |
| Daves Avenue ES | 0% | 196 | 315,188 | 53% | \$137,831 | \$10,146 | 7% | \$645,162 |
| Blossom Hill ES | 0% | 266 | 417,673 | 73% | \$137,199 | \$9,326 | 7% | \$765,442 |
| Lexington ES | 0% | 86 | 130,422 | 90% | \$47,785 | \$1,051 | 2% | \$164,867 |
| Louise Van Meter ES | 0% | 141 | 217,000 | 65% | \$100,000 | \$5,000 | 5% | \$405,133 |
| Total | 0% | 1,065 | 1,718,777 | 77% | \$584,555 | \$44,099 | 7% | \$3,170,485 |

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Assumes 2.7% Annual Utility Energy Rate Increase, 5.0% Utility Demand Rate Increase



Blossom Hill Elementary

| SYSTEM DESCRIPTION | |
|----------------------|--------------------------------|
| MODULE TYPE | Long LR4-72HPH-435M |
| QUANTITY | 612 |
| INVERTERS | (62)PVI 50 TL (69)PVI 60 TL |
| SYSTEM SIZE [DC] | 266.22 kW |
| SYSTEM SIZE [AC] | 230.00 kW |
| SYSTEM SIZE [AC-CEC] | 245.01 kW-CEC |
| LAT/LONG | 37.234187, -121.956677 |
| AZIMUTH ANGLE | 102°/90°/180° |
| TILT ANGLE | 7° |
| SNOWLOAD | 0 PSF |
| WINDSPEED | 91 MPH |
| SEISMIC CATEGORY | E |
| TREES/LIGHT POLES | N/A |
| ADA SPACES/COVERED | 6/0 |

NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THE DESIGN. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE

| CANOPY BLOCKS: | |
|----------------------|--|
| 03 x 9 STRING BLOCKS | |
| 01 x 7 STRING BLOCKS | |

CANOPIES HAVE A MINIMUM CLEARANCE OF 11' UNLESS OTHERWISE SPECIFIED



FOREFRONT POWER

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(415) 204-2083
www.ForefrontPower.com

STAMP:

NOT FOR CONSTRUCTION

**Los Gatos USD
Blossom Hill ES**

16400 Blossom Hill Rd,
Los Gatos, CA 95032

PROJECT NUMBER:
CA-20-0305

SHEET TITLE:
CONCEPTUAL LAYOUT

SHEET SIZE:
TABLOID 11" X 17"

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| NO. | REVISION | DATE | INIT. |
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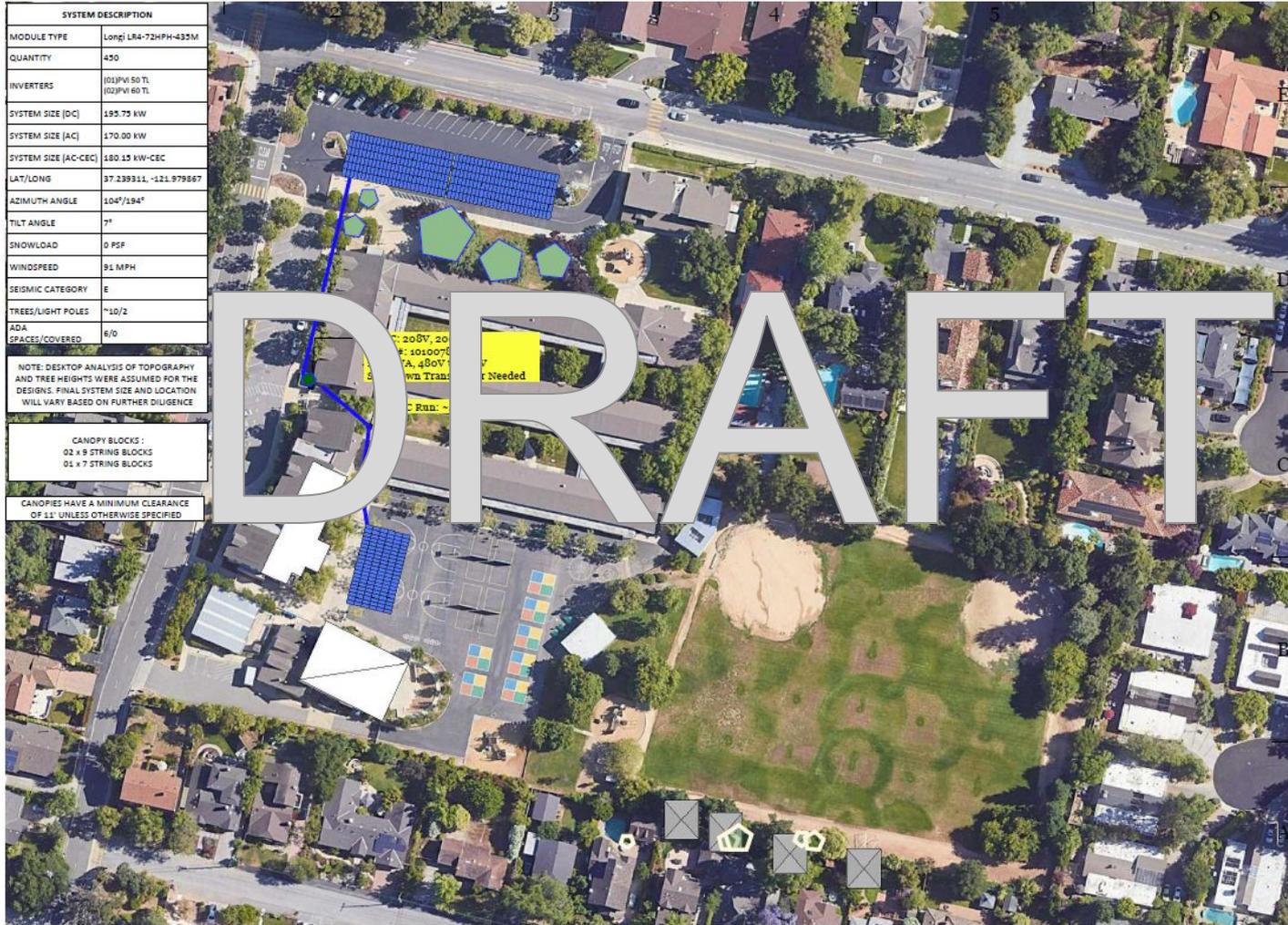
DATE: 11 Nov 2020
DRAWN BY: RP
ENGINEER: RP
APPROVED BY:

PROJECT PHASE:
PRELIMINARY DESIGN
SCALE: 1" = 80'

SHEET NO:
CL-1



Daves Avenue Elementary



| SYSTEM DESCRIPTION | |
|----------------------|--------------------------------|
| MODULE TYPE | Longi LRA-72HPH-433M |
| QUANTITY | 450 |
| INVERTERS | (01)JPM 50 TL (02)JPM 60 TL |
| SYSTEM SIZE [DC] | 195.75 KW |
| SYSTEM SIZE [AC] | 170.00 KW |
| SYSTEM SIZE [AC-CEC] | 180.15 KW-CEC |
| LAT/LONG | 37.239311, -121.979867 |
| AZIMUTH ANGLE | 104°/194° |
| TILT ANGLE | 7° |
| SNOWLOAD | 0 PSF |
| WINDSPEED | 91 MPH |
| SEISMIC CATEGORY | E |
| TREES/LIGHT POLES | *10/2 |
| ADA SPACES/COVERED | 6/0 |

NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THE DESIGNS. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE

CANOPIES BLOCKS:
02 x 9 STRING BLOCKS
01 x 7 STRING BLOCKS

CANOPIES HAVE A MINIMUM CLEARANCE OF 11' UNLESS OTHERWISE SPECIFIED

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**Los Gatos USD
 Daves Avenue ES**

17770 Daves Ave
 Los Gatos, CA 95030

PROJECT NUMBER:
CA-20-0306

SHEET TITLE:
CONCEPTUAL LAYOUT

SHEET SIZE:
TABLOID 11" X 17"

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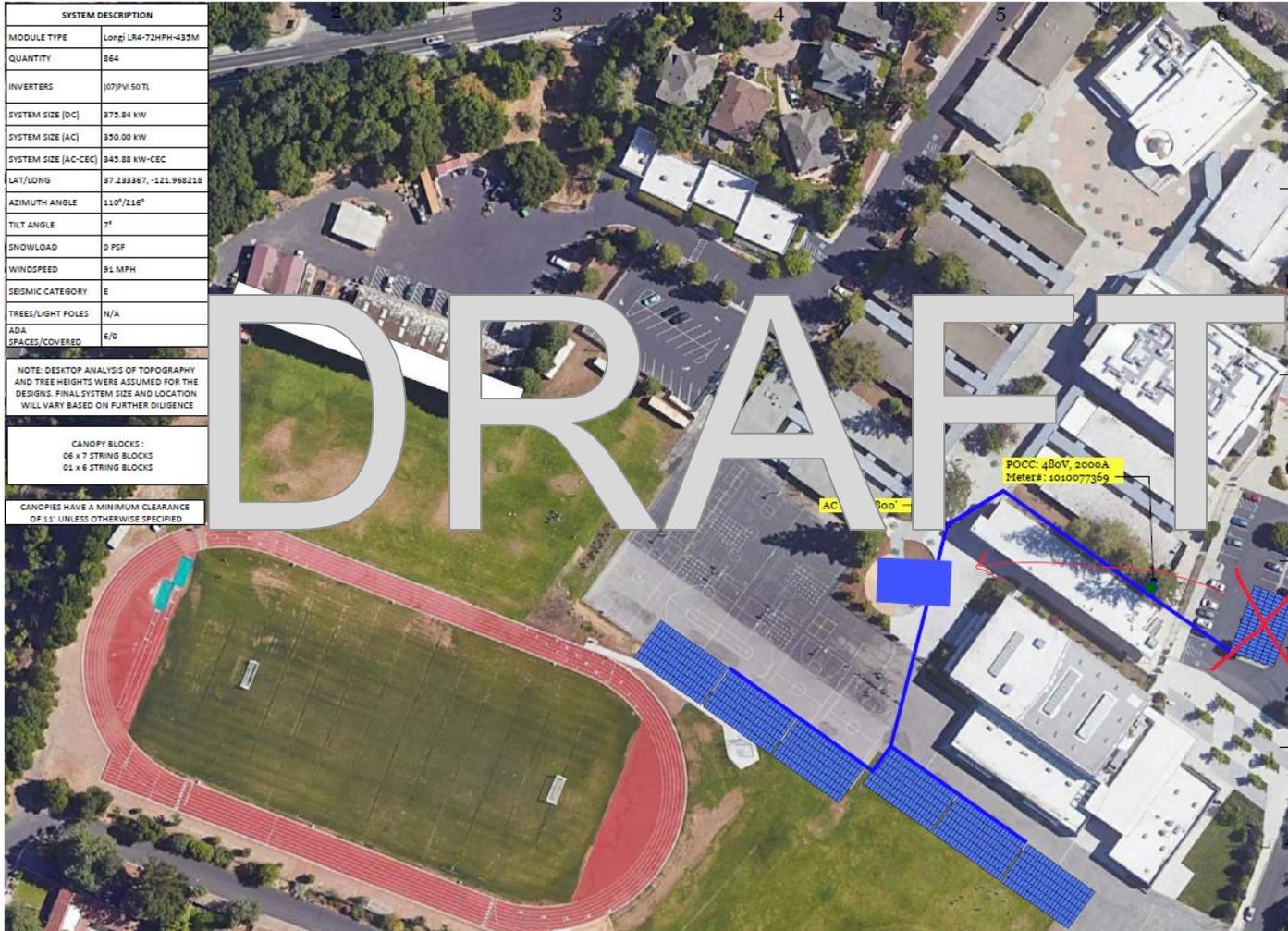
DATE: 11 Nov. 2020
 DRAWN BY: RP
 ENGINEER: RP
 APPROVED BY:

PROJECT PHASE:
PRELIMINARY DESIGN
 SCALE: 1" = 80'

SHEET NO:
CL-1



Fisher Middle



| SYSTEM DESCRIPTION | |
|----------------------|------------------------|
| MODULE TYPE | Longi LR4-72HPH-435M |
| QUANTITY | 864 |
| INVERTERS | 107PVI 50 TL |
| SYSTEM SIZE [DC] | 375.84 kW |
| SYSTEM SIZE [AC] | 350.00 kW |
| SYSTEM SIZE [AC-CEC] | 345.88 kW-CEC |
| LAT/LONG | 37.233367, -121.968218 |
| AZIMUTH ANGLE | 110°/216° |
| TYL ANGLE | 7° |
| SNOWLOAD | 0 PSF |
| WINDSPEED | 91 MPH |
| SEISMIC CATEGORY | E |
| TREES/LIGHT POLES | N/A |
| ADA SPACES/COVERED | 6/0 |

NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THE DESIGNS. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE

CANOPIES BLOCKS:
 06 x 7 STRING BLOCKS
 01 x 6 STRING BLOCKS

CANOPIES HAVE A MINIMUM CLEARANCE OF 11' UNLESS OTHERWISE SPECIFIED

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**Los Gatos USD
 Fisher MS**

19165 Fisher Ave,
 Los Gatos, CA 95032

PROJECT NUMBER:
 CA-20-0307

SHEET TITLE:
 CONCEPTUAL LAYOUT

SHEET SIZE:
 TABLOID 11" X 17"

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|-----|----------|------|-------|
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DATE: 11 Nov 2020
 DRAWN BY: RP
 ENGINEER: RP
 APPROVED BY:

PROJECT PHASE:
 PRELIMINARY DESIGN
 SCALE: 1" = 80'

SHEET NO:
CL-1



Van Meter Elementary

| SYSTEM DESCRIPTION | |
|--|------------------------|
| MODULE TYPE | Longi LR4-72HPH-435M |
| QUANTITY | 324 |
| INVERTERS | 002IPVI 60 TL |
| SYSTEM SIZE (DC) | 140.94 kW |
| SYSTEM SIZE (AC) | 120.00 kW |
| SYSTEM SIZE (AC-CEC) | 129.71 kW-CEC |
| LAT/LONG | 37.231250, -121.967648 |
| AZIMUTH ANGLE | 201° |
| TILT ANGLE | 7° |
| SNOWLOAD | 0 PSF |
| WINDSPEED | 91 MPH |
| SEISMIC CATEGORY | E |
| TREES/LIGHT POLES | N/A |
| ADA SPACES COVERED | N/A |
| NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THIS DESIGN. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE. | |
| CANOPY BLOCKS : 02 x 9 STRING BLOCKS | |
| CANOPIES HAVE A MINIMUM CLEARANCE OF 13'6" UNLESS OTHERWISE SPECIFIED | |





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Los Gatos USD
Loise Van Meter ES

16445 Los Gatos Blvd,
Los Gatos, CA 95032

PROJECT NUMBER:
CA-20-0308

SHEET TITLE:
CONCEPTUAL LAYOUT

SHEET SIZE:
TABLOID 11" X 17"

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DATE: 13.Oct.2020
 DRAWN BY: RP
 ENGINEER: RP
 APPROVED BY:

PROJECT PHASE:
 PRELIMINARY DESIGN
 SCALE: 1" = 80'

SHEET NO:
CL-1

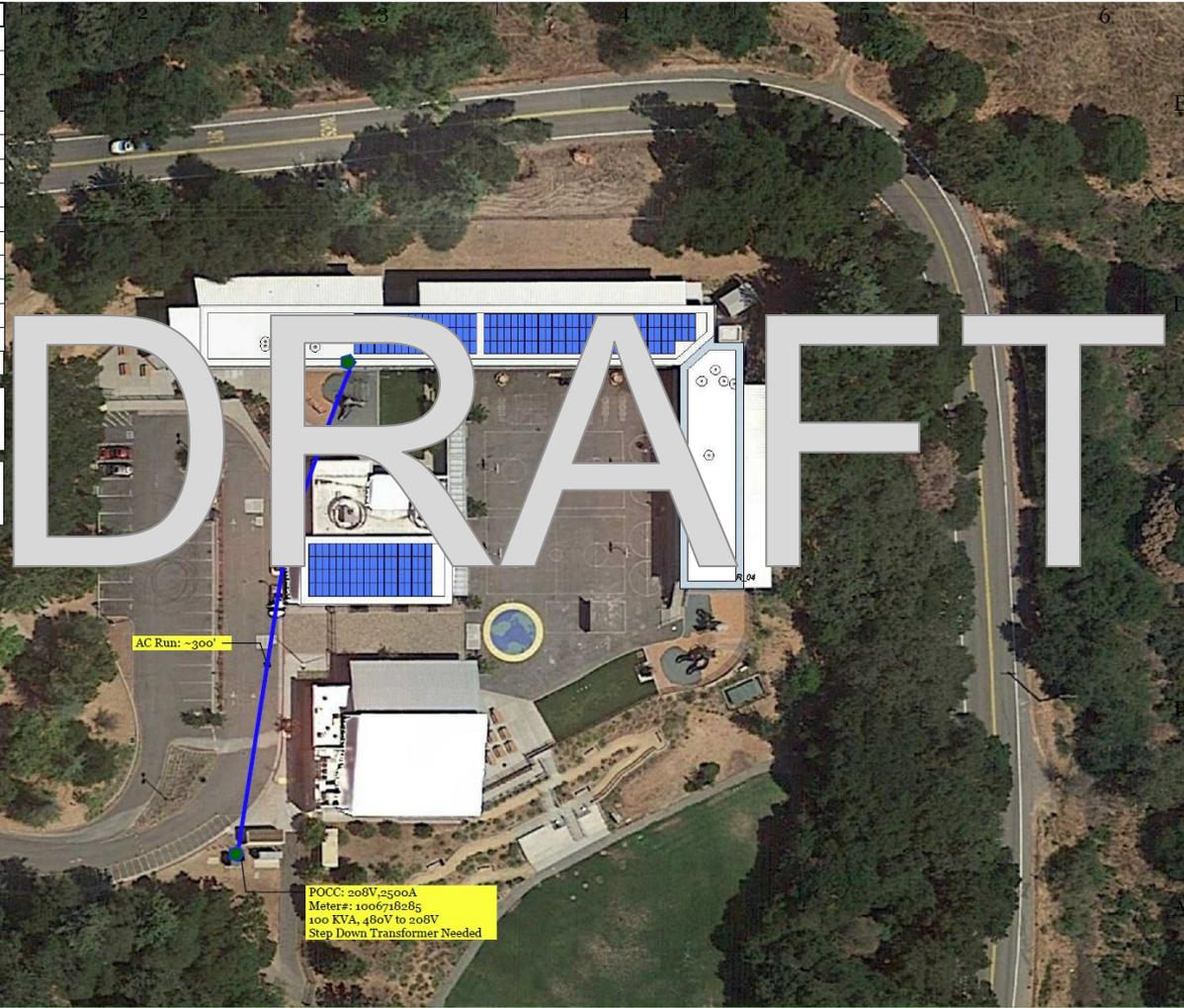


Lexington Elementary

| SYSTEM DESCRIPTION | |
|----------------------|--------------------------------|
| MODULE TYPE | Longi LR4-72HPH-435M |
| QUANTITY | 216 |
| INVERTERS | [01]PVI 50 TL [01]PVI 25 TL |
| SYSTEM SIZE (DC) | 93.96 kW |
| SYSTEM SIZE (AC) | 75.00 kW |
| SYSTEM SIZE (AC-CEC) | 86.47 kW-CEC |
| LAT/LONG | 37.179777, -121.990165 |
| AZIMUTH ANGLE | 180° |
| TILT ANGLE | 5° |
| SNOWLOAD | 0 PSF |
| WINDSPEED | 91 MPH |
| SEISMIC CATEGORY | E |
| TREES/LIGHT POLES | N/A |
| ADA SPACES/COVERED | N/A |

NOTE: DESKTOP ANALYSIS OF TOPOGRAPHY AND TREE HEIGHTS WERE ASSUMED FOR THE DESIGN. FINAL SYSTEM SIZE AND LOCATION WILL VARY BASED ON FURTHER DILIGENCE

Rooftop System:
Roof 1: 8 Strings
Roof 2: 4 Strings



AC Run: ~300'

POCC: 208V, 2500A
Meter#: 1006718285
100 KVA, 480V to 208V
Step Down Transformer Needed

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**Los Gatos USD
Lexington ES**

19700 Old Santa Cruz Hwy
Los Gatos, CA 95033

PROJECT NUMBER:
CA-20-0309

SHEET TITLE:
CONCEPTUAL LAYOUT

SHEET SIZE:
TABLOID 11" X 17"

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DATE: 28.Sep.2020
DRAWN BY: RP
ENGINEER: RP
APPROVED BY:

PROJECT PHASE:
PRELIMINARY DESIGN

SCALE: 1" = 50'

SHEET NO:
CL-1



Backup Power Engineering & Design

- Include Backup Power Study in PPA Rates
- Goals:
 1. Identify Critical Loads
 2. Arrive at Backup Generator Design to Adequately Serve Critical Loads

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Conclusions & Next Steps

- **Conclusions**

- Community Engagement Layouts
- Backup Power
- Maximized Savings to Reinvest into School Improvements

- **Next Steps**

- Feedback
- Contract Negotiations
- Finalize by December Board

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