Ridgeland School District 122 Administrative Center 6500 West 95th Street, Oak Lawn, IL 60453

Thursday November 9, 2017 6:30 p.m.

Finance Committee Meeting

AGENDA
1. Call to Order (time)
2. Members Present
 3. Approval of the Minutes of the October 12, 2017, Finance Committee Meeting Recommended Motion – that the Finance Committee approve the minutes of the October 12, 2017 Finance Committee meeting
A N Abstain Absent
 4. Finance 2017 Tax Levy State Payment Update Property Tax Collections Update Local Government Travel Expense Control Act Resolution October Meal Counts from CPE PMA/Forecast5 Financial Forecasting List of Bills (if available) Township Treasurer's Report (if available) Other
5. Human Resources
 6. Building and Grounds Harnew Chiller Authorization Water Testing Updates
7. Close Session: Personnel, Contracts, Litigation
8. Public Comments
9. Adjournment (time)

• Recommended Motion – that the Finance Committee adjourn the November 9, 2017 Finance
Committee meeting
A
N Abstain
Absent

Ridgeland School District 122

6500 West 95th Street, Oak Lawn, IL 60453 Phone 708-599-5550 Fax 708-599-5626 www.ridgeland122.com

Meeting Minutes

Finance Committee Meeting

Date: October 12, 2017

Time: 6:30 PM

Place: Administrative Center Board Room

Challenge! Care! Success!

Present: David Lis, Pat Pulver, Steve Nicefero, Julie Shellberg, Doug Ogarek

Agenda Item	Notes
Call to Order	6:35pm
Finance	
 2017 Estimated Tax Levy 	The estimated 2017 tax levy was presented at \$18,345,000.
	This was less than 5% of 2016 tax extension.
State Payment Update	The state owes the district \$357,686 for FY18 and \$606,583 for
	FY17 for various programs vouched as far back as June 2017.
 Property Tax Collections Update 	Property tax collections for 2016 levy total \$21,494,084
	representing 97% collected.
Annual Audit	RSM completed their audit of the district's finances and federal
	program awards. Presented were the following
	Required communications to the Board of Education
	Bound annual financial report to be uploaded to EMMA
	ISBE AFR
	Single Audit
	There were no findings and the report will be filed with ISBE by
Page 4 11 1 1	October 15th.
PMA Update	PMA's plan of Finance Options and Market Update was
	discussed as the district's Debt Service Extension Base is
- Flootulaity Dulaing	lowered through the payment of bonds.
Electricity Pricing	Electricity pricing from four providers was considered. Based on
	current pricing and quoted charges for supply costs and transmission costs, the finance committee opted with the supply
	only pricing from IEC Nextera for a 12 month term.
List of Bills (if available)	Will be provided in board packet for board meeting
*	
 Township Treasurer's Report (if available) 	Will be provided in board packet for board meeting
available)	

Other	The district is demo'ing a new model copier at Kolb because of recurrent issues.
Human Resources	
Buildings and Grounds	
 Simmons Computer Lab Renovations 	Renovations are continuing on as planned. Furniture and fixtures and flooring are currently being selected. The new space is expected to be occupied by January 1st.
Harnew Chiller Update	The Harnew chiller is currently being evaluated by architect/engineer for repairs/maintenance or replacement.
Water Testing	Water analysis reports were received on October 10th. Results were shared with IDPH, parents/guardians and staff. Harnew's test results were under 2 ppb. Lieb had 4 areas with test results above 2 ppb. The fixtures were marked and taken out of service. Replacement fixtures and follow-up testing is expected. The district will implement a flushing program at all schools and the remaining schools will be tested.
Closed Session (if needed)	
 Personnel, Contracts, Litigation 	
Adjournment	8:05pm

RESOLUTION 18-007

APPROVING 2017 TAX LEVY

WHEREAS, the Board of Education of Ridgeland School District Number 122, Cook County, Illinois, has determined the amount of money, exclusive of election costs and bond principal and interest levies, that is necessary to be raised by taxation for the year 2017; and

WHEREAS, the Board of Education has heretofore adopted a Budget Resolution for the District for the fiscal year commencing July 1, 2017 and ending June 30, 2018; and

WHEREAS, the Board of Education disclosed at a public meeting its intention to adopt a levy; and

WHEREAS, the Board of Education provided notice of its intent to adopt a levy.

NOW, THEREFORE, BE IT AND IT IS HEREBY RESOLVED by the Board of Education of Ridgeland School District Number 122, Cook County, Illinois, as follows:

- That there shall be and there is hereby levied by the Board the amounts set forth 1. on Exhibit A attached hereto and made a part of this Resolution, which is the Certificate of Tax Levy for the year 2017.
- That the Board President and Board Secretary are hereby authorized to execute the Certificate of Tax Levy and supporting forms and Certifications and the District Administration is hereby authorized and directed to file the Certificate of Tax Levy and all supporting data and Certifications with the County Clerk of Cook County, Illinois.

A	motion	was	made	by				and	seconded	by
		_ that t	he Resol	ution A	Approving	2017 Tax	Levy be	e adop	ted as preser	nted.
Upon roll	call the foll	lowing	members	answe	ered:					
AY	ES:					· · · · <u>-</u>	,		<u></u>	

NAYS:	
ABSENT:	
The President declared the motion	n carried and the Resolution adopted.
	President, Board of Education Ridgeland School District Number 122, Cook County, Illinois
ATTEST:	
Secretary, Board of Education Ridgeland School District Number 122, Cook County, Illinois	

EXHIBIT A

ILLINOIS STATE BOARD OF EDUCATION

Original:	
Amended:	

ISBE Form 50-02 (08/2017) cti2017.xls

School Business Services Division 217/785-8779

CERTIFICATE OF TAX LEVY

A copy of this Certificate of Tax Levy shall be filed with the County Clerk of each county in which the school district is located on at before the last Tuesday of December.

Operations & Maintenance \$ 1,900,000 Tort Immunity \$	DGELAND SCHOOL DISTRICT 122		1 .
Educational S 14,645,000 Fire Prevention & Safety * 5 Operations & Maintenance \$ 1,900,000 Tort Immunity \$ 5 Transportation \$ 1,900,000 Special Education \$ 1,000,000 Special Education \$ 5 Municipal Retirement \$ 250,000 Other \$ 5 Total Levy Total Levy See explanation on revens side. Note: Any district proposing to adopt a levy must comply with the provisions set forth in the Truth in Taxation Law. We hereby certify that we require: the sum of 1,900,000 dollars to be levied as a special tax for educational purposes; and the sum of 1,900,000 dollars to be levied as a special tax for operations and maintenance purposes; and the sum of 1,000,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 450,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 450,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 450,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 450,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 0 dollars to be levied as a special tax for for purposed for municipal retirement purposes; and the sum of 0 dollars to be levied as a special tax for social security purposes; and the sum of 0 dollars to be levied as a special tax for from frevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for for the immunity purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for the immunity purpose; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a speci		07-016-1220-02	L COOK
Educational S 14,645,000 Fire Prevention & Safety * \$	Amo		
Educational States S		ount of Levy	
Operations & Maintenance \$ 1,900,000 Tort Immunity \$ Transportation \$ 1,000,000 Leasing \$ Municipal Retirement \$ 2,50,000 Other \$ Social Security \$ 450,000 Other \$ Total Levy \$ 1,000,000 Oth			
Transportation \$ 1,000,000 Leasing \$ Leasing \$ Morking Cash S 100,000 Leasing \$ Leasing \$ Morking Cash S 100,000 Cher \$ S S S S S S S S S	·	-	\$
Working Cash Municipal Retirement \$ 250,000 Other \$ 150,000 Other \$ 150,305 Total Levy * includes Fire Prevention, Safety, Energy Conservation, Disabled Accessibility, School Security, and Specified Repair Purposes. We hereby certify that we require: the sum of 14,645,000 the sum of 1,900,000 dollars to be levied as a special tax for educational purposes; and the sum of 1,900,000 dollars to be levied as a special tax for a working cash fund; and the sum of 1,000,000 dollars to be levied as a special tax for operations and maintenance purposes; and the sum of 1,000,000 dollars to be levied as a special tax for or aworking cash fund; and the sum of 1,000,000 dollars to be levied as a special tax for a working cash fund; and the sum of 250,000 dollars to be levied as a special tax for or aworking cash fund; and the sum of 450,000 dollars to be levied as a special tax for or aworking cash fund; and the sum of 0 dollars to be levied as a special tax for or aworking cash fund; and the sum of 0 dollars to be levied as a special tax for or aworking cash fund; and the sum of 0 dollars to be levied as a special tax for or aworking cash fund; and the sum of 0 dollars to be levied as a special tax for or aworking cash fund; and the sum of 0 dollars to be levied as a special tax for or security purposes; and the sum of 0 dollars to be levied as a special tax for or security purposes; and the sum of 0 dollars to be levied as a special tax for or special education purposes; and the sum of 0 dollars to be levied as a special tax for or special education purposes; and the sum of 0 dollars to be levied as a special tax for or special education purposes; and the sum of 0 dollars to be levied as a special tax for or special education purposes; and the sum of 0 dollars to be levied as a special tax for or special education purposes; and the sum of 0 dollars to be levied as a special tax for employed doubt and the sum of 0 dollars to be levied as a special tax for or special education purposes; and the sum of 0 dol			\$
Municipal Retirement Social Security Social Se	,	- '	\$
See explanation on reverse side. Note: Any district proposing to adopt a levy must comply with the provisions set forth in the Truth in Taxation Law. We hereby certify that we require: the sum of 1,000,000 the sum of 1,000,000 the sum of 250,000 dollars to be levied as a special tax for educational purposes; and dollars to be levied as a special tax for a working cash fund; and the sum of 150,000 dollars to be levied as a special tax for a working cash fund; and the sum of 250,000 dollars to be levied as a special tax for roaprations and maintenance purposes; and dollars to be levied as a special tax for roaprations and maintenance purposes; and dollars to be levied as a special tax for a working cash fund; and the sum of 250,000 dollars to be levied as a special tax for roapration purposes; and dollars to be levied as a special tax for a working cash fund; and the sum of 450,000 dollars to be levied as a special tax for a working cash fund; and the sum of 0 dollars to be levied as a special tax for secretary and specified repair purposes; and dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and dollars to be levied as a special tax for speci	,	-	\$
See explanation on reverse side. Note: Any district proposing to adopt a levy must comply with the provisions set forth in the Truth in Taxation Law. We hereby certify that we require: the sum of 14,645,000 dollars to be levied as a special tax for operations and maintenance purposes; and the sum of 1,000,000 dollars to be levied as a special tax for operations and maintenance purposes; and the sum of 1,000,000 dollars to be levied as a special tax for operations and maintenance purposes; and the sum of 1,000,000 dollars to be levied as a special tax for ransportation purposes; and the sum of 250,000 dollars to be levied as a special tax for ransportation purposes; and the sum of 450,000 dollars to be levied as a special tax for social security purposes; and the sum of 450,000 dollars to be levied as a special tax for social security purposes; and dollars to be levied as a special tax for social security purposes; and dollars to be levied as a special tax for social security purposes; and dollars to be levied as a special tax for social security purposes; and the sum of 0 dollars to be levied as a special tax for tor timmunity purposes; and the sum of 0 dollars to be levied as a special tax for tor timmunity purposes; and dollars to be levied as a special tax for tor tor timmunity purposes; and dollars to be levied as a special tax for tor tor timmunity purposes; and dollars to be levied as a special tax for tor tor timmunity purposes; and dollars to be levied as a special tax for tor tor timmunity purposes; and dollars to be levied as a special tax for tor tor timmunity purposes; and dollars to be levied as a special tax for tor timmunity purposes; and dollars to be levied as a special tax for tor timmunity purposes; and dollars to be levied as a special tax for tor timmunity purposes; and dollars to be levied as a special tax for tor tortimmunity purposes; and dollars to be levied as a special tax for teasing of educational facilities or computer technology or both, and temporary relocation expense purpose	450.000	_	\$
See explanation on reverse side. Note: Any district proposing to adopt a levy must comply with the provisions set forth in the Truth in Taxation Law. We hereby certify that we require: the sum of 1,900,000 dollars to be levied as a special tax for operations and maintenance purposes; and dollars to be levied as a special tax for roparation purposes; and dollars to be levied as a special tax for roparation purposes; and dollars to be levied as a special tax for roparation purposes; and dollars to be levied as a special tax for roparation purposes; and dollars to be levied as a special tax for surpose and dollars and the sum of 100,000 dollars to be levied as a special tax for surpose; and dollars to be levied as a special tax for surpose; and dollars to be levied as a special tax for surpose; and the sum of 250,000 dollars to be levied as a special tax for social security purposes; and dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purpose; and the sum of 0 dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purpose; and the sum of 0 dollars to be levied as a special tax for social security purpose; and the sum of 0 dollars to be levied as a special tax for social education purpose; and the sum of 0 dollars to be levied as a special tax for social according to the service of the sum of 0 dollars to be levied as a special tax for social according of educational facilities or computer technology or both, and temporary relocation expense purposes; and the sum of 0 dollars to be levied as a special tax for social tax for so	ial Security \$ 450,000	_	\$ 618.345.000
Accessibility, School Security, and Specified Repair Purposes. Note: Any district proposing to adopt a levy must comply with the provisions set forth in the Truth in Taxation Law. We hereby certify that we require: the sum of 14,645,000 dollars to be levied as a special tax for educational purposes; and the sum of 1,000,000 dollars to be levied as a special tax for operations and maintenance purposes; and the sum of 1,000,000 dollars to be levied as a special tax for more more more flow, and the sum of 100,000 dollars to be levied as a special tax for more more more more flow, and the sum of 450,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 450,000 dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for pair deducational facilities or computer technology or both, and temporary relocation expense purposes; and dollars to be levied as a special tax for more flow or the sum of 0 dollars to be levied as a special tax for dollars to be expecial t		•	·
Note: Any district proposing to adopt a levy must comply with the provisions set forth in the Truth in Taxation Law. We hereby certify that we require: the sum of 14,645,000 dollars to be levied as a special tax for educational purposes; and the sum of 1,000,000 dollars to be levied as a special tax for operations and maintenance purposes; and the sum of 1,000,000 dollars to be levied as a special tax for a working cash fund; and the sum of 250,000 dollars to be levied as a special tax for a working cash fund; and the sum of 450,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 450,000 dollars to be levied as a special tax for social security purposes; and the sum of 0 dollars to be levied as a special tax for social security purposes; and disabled accessibility, school security and specified repair purposes; and dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for on the taxable property of our school district for the year Signed this day of 20 (Clerk or Secretary of the School Board of Said School District) When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk of each county in which the district is situated to provide for the issuance of the bonds and interest as set forth in t	a evaluation on reverse side	•	
the sum of 1,900,000 dollars to be levied as a special tax for educational purposes; and the sum of 1,000,000 dollars to be levied as a special tax for roperations and maintenance purposes; and the sum of 100,000 dollars to be levied as a special tax for transportation purposes; and the sum of 250,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 450,000 dollars to be levied as a special tax for social security purposes; and the sum of 450,000 dollars to be levied as a special tax for social security purposes; and the sum of 0 dollars to be levied as a special tax for specified repair purposes; and the sum of 0 dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for fort immunity purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for leasing of educational facilities or computer technology or both, and temporary relocation expense purposes; and the sum of 0 dollars to be levied as a special tax for leasing of educational facilities on the sum of 0 dollars to be levied as a special tax for special education expense purposes; and the sum of 0 dollars to be levied as a special tax for special education expense purposes; and the sum of 0 dollars to be levied as a special tax for leasing of educational facilities on the sum of 0 dollars to be levied as a special tax for leasing of educational facilities on the sum of 0 dollars to be levied as a special tax for leasing of educational facilities on the sum of 0 dollars to be levied as a special tax for leasing of education expense purposes; and the sum of 0 dollars to be levied as a special tax for leasing of education developes and the sum of 0 dollars to be levied as a special tax for leasing of education developes and the sum of 0 dollars to be levied as a special t	te: Any district proposing to adopt a levy must comply with	, 10000014 1111, 201001 2010111, 2110 2	
the sum of 1,900,000 dollars to be levied as a special tax for educational purposes; and the sum of 1,000,000 dollars to be levied as a special tax for roperations and maintenance purposes; and the sum of 100,000 dollars to be levied as a special tax for transportation purposes; and the sum of 250,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 450,000 dollars to be levied as a special tax for social security purposes; and the sum of 450,000 dollars to be levied as a special tax for social security purposes; and the sum of 0 dollars to be levied as a special tax for specified repair purposes; and the sum of 0 dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for fort immunity purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for leasing of educational facilities or computer technology or both, and temporary relocation expense purposes; and the sum of 0 dollars to be levied as a special tax for leasing of educational facilities on the sum of 0 dollars to be levied as a special tax for special education expense purposes; and the sum of 0 dollars to be levied as a special tax for special education expense purposes; and the sum of 0 dollars to be levied as a special tax for leasing of educational facilities on the sum of 0 dollars to be levied as a special tax for leasing of educational facilities on the sum of 0 dollars to be levied as a special tax for leasing of educational facilities on the sum of 0 dollars to be levied as a special tax for leasing of education expense purposes; and the sum of 0 dollars to be levied as a special tax for leasing of education developes and the sum of 0 dollars to be levied as a special tax for leasing of education developes and the sum of 0 dollars to be levied as a special t	e hereby certify that we require:		
the sum of the sum of 1,900,000 dollars to be levied as a special tax for operations and maintenance purposes; and the sum of 1,000,000 dollars to be levied as a special tax for transportation purposes; and the sum of 250,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 450,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 450,000 dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for fort immunity purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for government of the sum of 0 dollars to be levied as a special tax for government of the sum of 0 dollars to be levied as a special tax for government of the sum of 0 dollars to be levied as a special tax for government of the sum of 0 dollars to be levied as a special tax for government of the sum of 0 dollars to be levied as a special tax for government of the sum of 0 dollars to be levied as a special tax for government of the sum of 0 dollars to be levied as a special tax for government of the sum of 0 dollars to be levied as a special tax for government of the sum of 0 dollars to be levied as a special tax for government of the sum of 0 dollars to be levied as a special tax for government of the sum of 0 dollars doll	· · · · · · · · · · · · · · · · · · ·	be levied as a special tax for educational purp	poses; and
the sum of 1,000,000 dollars to be levied as a special tax for transportation purposes; and the sum of 250,000 dollars to be levied as a special tax for a working cash fund, and the sum of 250,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 450,000 dollars to be levied as a special tax for municipal retirement purposes; and the sum of 0 dollars to be levied as a special tax for social security purposes; and the sum of 0 dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for pleasing of educational facilities or computer technology or both, and temporary relocation expense purposes; and the sum of 0 dollars to be levied as a special tax for leasing of educational facilities or computer technology or both, and temporary relocation expense purposes; and the sum of 0 dollars to be levied as a special tax for leasing of educational facilities or computer technology or both, and temporary relocation expense purposes; and the sum of 0 dollars to be levied as a special tax for secretary of the School Board of Soid School District) When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and tolevy a tax to pay for them. The county clerk of each county in which the district is situated to provide for the issuance of the bonds and tolevy a tax to pay for them. The county clerk of each county in which the district is situated to provide for the issuance of the bonds and tolevy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the			
the sum of the sum of 250,000 dollars to be levied as a special tax for a working cash fund; and the sum of 450,000 dollars to be levied as a special tax for social security purposes; and the sum of 0 dollars to be levied as a special tax for social security purposes; and the sum of 0 dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for special education expense purposes; and the sum of 0 dollars to be levied as a special tax for operation expense purposes; and the sum of 0 dollars to be levied as a special tax for operation expense purposes; and the sum of 0 dollars to be levied as a special tax for operation expense purposes; and the sum of 0 dollars to be levied as a special tax for operation expense purposes; and the sum of 0 dollars to be levied as a special tax for operation expense purposes; and the sum of 0 dollars to be levied as a special tax for operation expense purposes; and the sum of 0 dollars to be levied as a special tax for operation expense purposes; and the sum of 0 dollars to be levied as a special tax for operation expense purposes; and the sum of 0 dollars to be levied as a special tax for leasing of education expense purposes; and the sum of 0 dollars to be levied as a special tax for special tax for possible dollars to be levied as a special tax for special education (President) (Clerk or Secretary of the School Board of Said School District) When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk fo			
the sum of the sum of 0 dollars to be levied as a special tax for social security purposes; and dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for leasing of educational facilities or computer technology or both, and temporary relocation expense purposes; and the sum of 0 dollars to be levied as a special tax for month the sum of 0 dollars to be levied as a special tax for on the taxable property of our school district for the year Signed this day of 20 (President) When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk hall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. , County, Illinois, on the equalized assessed value of all taxable property of said school district for the year as a suthorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	· · · · · · · · · · · · · · · · · · ·	be levied as a special tax for a working cash f	und; and
the sum of dollars to be levied as a special tax for fire prevention, safety, energy conservation, disabled accessibility, school security and specified repair purposes; and the sum of dollars to be levied as a special tax for tort immunity purposes; and the sum of dollars to be levied as a special tax for special education purposes; and the sum of dollars to be levied as a special tax for releasing of educational facilities or computer technology or both, and temporary relocation expense purposes; and the sum of dollars to be levied as a special tax for leasing of education expense purposes; and the sum of dollars to be levied as a special tax for son the taxable property of our school district for the year don't the sum of dollars to be levied as a special tax for on the taxable property of our school district for the year day of dollars to be levied as a special tax for don't tax for dollars to be levied as a special tax for don't tax for dollars to be levied as a special tax for don't tax for dollars to be levied as a special tax for don't tax for dollars to tax for dollars to be levied as a special tax for dollars to tax for dollars tax for dol	the sum of 250,000 dollars to	be levied as a special tax for municipal retire	ment purposes; and
disabled accessibility, school security and specified repair purposes; and the sum of 0 dollars to be levied as a special tax for tort immunity purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for special education purposes; and the sum of 0 dollars to be levied as a special tax for special educational facilities or computer technology or both, and temporary relocation expense purposes; and the sum of 0 dollars to be levied as a special tax for such the sum of 0 dollars to be levied as a special tax for on the taxable property of our school district for the year Signed this day of 20 (Clerk or Secretary of the School Board of Said School District) When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond Issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. , County, Illinois, on the equalized assessed value of all taxable property of said school district for the year , ladded to the county Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	the sum of 450,000 dollars to	be levied as a special tax for social security p	urposes; and
the sum of dollars to be levied as a special tax for tort immunity purposes; and the sum of dollars to be levied as a special tax for special education purposes; and the sum of dollars to be levied as a special tax for leasing of educational facilities or computer technology or both, and temporary relocation expense purposes; and the sum of dollars to be levied as a special tax for ; and the sum of the sum of dollars to be levied as a special tax for ; and the sum of the sum of dollars to be levied as a special tax for on the taxable property of our school district for the year Signed this day of 20 (*President*) When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. , County, Illinois, on the equalized assessed value of all taxable property of said school district for the year , was filed in the office of the County Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and	the sum of 0 dollars to	be levied as a special tax for fire prevention,	safety, energy conservation,
the sum of	disabled	accessibility, school security and specified rep	air purposes; and
the sum of 0 dollars to be levied as a special tax for leasing of educational facilities or computer technology or both, and temporary relocation expense purposes; and the sum of 0 dollars to be levied as a special tax for ; and the sum of on the taxable property of our school district for the year Signed this day of 20 (President) When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. , County, Illinois, on the equalized assessed value of all taxable property of said school district for the year was filled in the office of the County Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	the sum of dollars to	be levied as a special tax for tort immunity p	urposes; and
or computer technology or both, and temporary relocation expense purposes; and the sum of the sum of oldiars to be levied as a special tax for ; and oldiars to be levied as a special tax for on the taxable property of our school district for the year Signed this day of 20 (Clerk or Secretary of the School Board of Said School District) When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. County, Illinois, on the equalized assessed value of all taxable property of said school district for the year ,		,	
the sum of		·	
the sum of on the taxable property of our school district for the year Signed this day of 20			
On the taxable property of our school district for the year Signed this day of 20 (President) (Clerk or Secretary of the School Board of Said School District) When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. , County, Illinois, on the equalized assessed value of all taxable property of said school district for the year , was filed in the office of the County Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.		· · · · · · · · · · · · · · · · · · ·	; and
Signed this day of		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Detach and Return to School district for the year (Detach and Ret	on the taxable property of our school district to	or the year	
When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Detach and Return to School district for the year (Detach and Ret	and this day of	00	
(Clerk or Secretary of the School Board of Said School District) When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. , County, Illinois, on the equalized assesed value of all taxable property of said school district for the year , was filed in the office of the County Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	gried this day of 2		(President)
When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Detach and Return to School District for the year (Detach and Return to School District) County, Illinois, on the equalized assessed value of all taxable property of said school district for the year (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Detach and Return to School District)			(Frediscrity)
When any school is authorized to issue bonds, the school board shall file a certified copy of the resolution in the office of the county clerk of each county in which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Detach and Return to School District for the year (Detach and Return to School District) County, Illinois, on the equalized assessed value of all taxable property of said school district for the year (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Detach and Return to School District)			
which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Detach and Return to School District of the year (Detach and Return to School District of the ye		(Clerk or Secretary of the S	chool Board of Said School District)
which the district is situated to provide for the issuance of the bonds and to levy a tax to pay for them. The county clerk shall extend the tax for bonds and interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Detach and Return to School District of the year (Detach and Return to School District of the ye			
Interest as set forth in the certified copy of the resolution, each year during the life of the bond issue. Therefore to avoid a possible duplication of tax levies, the school board should not include a levy for bonds and interest in the district's annual tax levy. Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Illinois, on the equalized assesed value of all taxable property of said school district for the year was filled in the office of the County Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	hen any school is authorized to issue bonds, the school board shall f	ile a certified copy of the resolution in the office of	the county clerk of each county in
Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Illinois, on the equalized assesed value of all taxable property of said school district for the year was filled in the office of the County Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	nich the district is situated to provide for the issuance of the bonds a	and to levy a tax to pay for them. The county clerk:	shall extend the tax for bonds and
Number of bond issues of said school district that have not been paid in full (Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. (Detach and Return to School District No. (Detach and Return to School District No. (Detach and Return to School District) County, Illinois, on the equalized assesed value of all taxable property of said school district for the year (Detach and Return to School District) (Detach and			a possible duplication of tax levies,
(Detach and Return to School District) This is to certify that the Certificate of Tax Levy for School District No. Illinois, on the equalized assessed value of all taxable property of said school district for the year was filled in the office of the County Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	,		
This is to certify that the Certificate of Tax Levy for School District No. , County, Illinois, on the equalized assessed value of all taxable property of said school district for the year , was filed in the office of the County Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	umber of bond issues of said school district that have not be	een paid in full	 '
This is to certify that the Certificate of Tax Levy for School District No. , County, Illinois, on the equalized assessed value of all taxable property of said school district for the year , was filled in the office of the County Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	(h /	to a second second	
Illinois, on the equalized assesed value of all taxable property of said school district for the year was filed in the office of the County Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	(Detach ar	nd Return to School District)	
Illinois, on the equalized assesed value of all taxable property of said school district for the year was filed in the office of the County Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	This is to contifue that the Contificate of Toy Love for School F	Victoriat No.	County
was filed in the office of the County Clerk of this County on In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	•	 	County,
In addition to an extension of taxes authorized by levies made by the Board of Education (Directors), an additional extension(s) will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.	,	or said school district for the year	,
will be made, as authorized by resolution(s) on file in this office, to provide funds to retire bonds and pay interest thereon.		ide by the Board of Education (Directors), an a	additional extension(s)
, s	· · · · · · · · · · · · · · · · · · ·		
	icey, as provided in the original resolution(s), for said		
(Signature of County Clerk)		(S	ignature of County Clerk)
(0-1-1			
(Date) (County)			(0

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

SECRETARY'S CERTIFICATE

I DO HEREBY CERTIFY that I am the duly elected and acting Secretary of the Board of Education of Ridgeland School District Number 122, Cook County, Illinois, and as such I am the keeper of the records and minutes of said Board.

I DO FURTHER CERTIFY that attached hereto is a true and correct copy of a Resolution entitled:

RESOLUTION 18-007

APPROVING 2017 TAX LEVY which Resolution was duly adopted by said Board of Education at a meeting held on the 15th day of November, 2017.

I do further certify that a quorum of said Board of Education was present at said meeting, and that the Board complied with all the requirements of the Illinois Open Meetings Act.

IN WITNESS WHEREOF, I have hereunto set my hand this 15th day of November, 2017.

Secretary, Board of Education Ridgeland School District Number 122, Cook County, Illinois

RESOLUTION 18-008

ALLOCATING TAX LEVY TO INDIVIDUAL FUNDS OF THE DISTRICT

WHEREAS, on November 15th, 2017, the Board of Education of Ridgeland School District Number 122, Cook County, Illinois (the "District") did adopt a certificate of tax levy for the 2017 levy year for filing with the County Clerk of Cook County, Illinois ("County Clerk"); and

WHEREAS, the County Clerk has previously notified each Cook County taxing district which is subject to the Property Tax Extension Limitation Law ("PTELL") that it may direct the County Clerk, by proper resolution, to make specific and necessary reductions to its tax levy for the 2017 levy year to meet the requirements of the PTELL; and

NOW, THEREFORE, Be it Resolved by the Board of Education of Ridgeland School District Number 122, Cook County, Illinois, as follows:

1. The Board of Education hereby finds and determines as follows regarding appropriate adjustments in the 2017 levy of the District payable in 2018 by virtue of the PTELL:

A. That the following funds of this District are not to be limited:

Building (Operations and Maintenance)
Transportation
Working Cash
IMRF (Municipal Retirement Fund)
Social Security Levy

B. That the following funds of this District may be limited if required by the PTELL:

Educational

C. The levies for the following funds shall be no less than the amounts indicated as follows:

Educational Fund	\$14,645,000
Operations & Maintenance Fund	\$1,900,000
Transportation Fund	\$1,000,000
Working Cash Fund	\$100,000
Municipal Retirement Fund	\$250,000
Social Security Fund	\$450,000
TOTAL	\$18,345,000

D. In the event that a further reduction must be taken as a result of the PTELL, the County Clerk shall make any such further reduction in the percentage amounts indicated below:

Education Fund	100.0%
Operations & Maintenance Fund	0.0%
Transportation Fund	0.0%
Working Cash Fund	0.0%
Fire Prevention & Safety	0.0%
Municipal Retirement Fund	0.0%
Social Security Fund	0.0%
Tort Immunity Fund	0.0%
Special Education Fund	0.0%
-F	100.0%

- 2. That the District Administration be and is hereby authorized to file a certified copy of this Resolution with the County Clerk.
- 3. That this Resolution shall be in full force and effect from and after its adoption as provided by law.

ADOPTED this 15th day of November, 2017.

President, Board of Education	
Ridgeland School District Number	122
Cook County, Illinois	

ATTEST:

Secretary, Board of Education Ridgeland School District Number 122, Cook County, Illinois

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

SECRETARY'S CERTIFICATE

I DO HEREBY CERTIFY that I am the duly elected and acting Secretary of the Board of Education of Ridgeland School District Number 122, Cook County, Illinois, and as such I am the keeper of the records and minutes of said Board.

I DO FURTHER CERTIFY that attached hereto is a true and correct copy of a Resolution entitled:

RESOLUTION 18-008

RESOLUTION ALLOCATING TAX LEVY TO INDIVIDUAL FUNDS OF THE

DISTRICT which Resolution was duly adopted by said Board of Education at a meeting held on the 15th day of November, 2017.

I do further certify that a quorum of said Board of Education was present at said meeting, and that the Board complied with all the requirements of the Illinois Open Meetings Act.

IN WITNESS WHEREOF, I have hereunto set my hand this 15th day of November, 2017.

Secretary, Board of Education Ridgeland School District Number 122, Cook County, Illinois

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

CERTIFICATION OF INAPPLICABILITY OF TRUTH IN TAXATION LAW

I, the undersigned, do hereby certify that I am the duly qualified and acting President of the Board of Education of Ridgeland School District Number 122, Cook County, Illinois.

I do further certify that in adopting the foregoing Certificate of Tax Levy, Sections 18-60 through 18-85 of the Truth In Taxation Law (35 ILCS 200/18-60 through 200/18-85) were inapplicable.

IN WITNESS WHEREOF, I hereunto affix my official signature this 15th day of November, 2017.

President, Board of Education

RIDGELAND SCHOOL DISTRICT 122	OL DISTR	ICT 122				_	Prior Year EAV		480,351,595
Loss Amount (Non-Bonds)	3%	Prior Year Extension x CPI	ension 2.100%	17,479,716 17,846,790		2 0.	New Property Prior EAV + New Property	operty	2,000,000
Loss Amount (Bonds)	2%	Limiting Rate		3.378		2017 Estin	2017 Estimated EAV at	110%	530,386,755
LEVY INCREASE	4.95%								
	700			Tav Bate	Maximum	Prolim	DTEIL	ii cu	Cinal Tax
Fund Fund Description	Amount	Loss Amt.	Total Levy	Ceiling	Levy	Rates	Reduction	Levy	Rates
IMRF	250,000	7,500	257,500		257,500	0.0485	7,500	250,000	0.0471
SOCIAL SECURITY	450,000	13,500	463,500		463,500	0.0874	13,500	450,000	0.0848
LIABILITY INSURANCE	0	0	0		0	0.0000	0	0	0.0000
TRANSPORTATION	1,000,000	30,000	1,030,000		1,030,000	0.1942	30,000	1,000,000	0.1885
EDUCATION	14,645,000	439,350	15,084,350		15,084,350	2.8440	870,008	14,214,342	2.6800
BUILDING	1,900,000	57,000	1,957,000	0.5500	1,957,000	0.3690	57,000	1,900,000	0.3582
WORKING CASH	100,000	3,000	103,000	0.0500	103,000	0.0194	3,000	100,000	0.0189
LIFE SAFETY	0	0	0	0.1000	0	0.0000	0	0	0.0000
SPECIAL EDUCATION	0	0	0	0.4000	0	0.0000	0	0	0.0000
LEASING	0	0	0	0.1000	0	0.0000	0	0	0.0000
LIMITED BONDS		0	0		0	0.0000		0	0.0000
Total Cap Funds	18,345,000	550,350	18,895,350		18,895,350	3.563	981,008	17,914,342	3.378

0.0000

0

0.0000

O

3.378

17,914,342

981,008

3.563

18,895,350

550,350 18,895,350

18,345,000

Grand Totals

0

Total Non-Cap Funds

TO: Cook County - 2017 Tax Levy File

FROM: Doug Ogarek

DATE: November 2, 2017

RE: 217 levy rationale

With the change in law affecting the 2017 tax levy year as it relates to the elimination of the tax rate ceiling for the Education Fund, the district will not levy for Special Education as a separate levy as the School District has done in the past.

- The Special Education levy has been and is currently included in the education fund for school districts.
- With no tax rate ceiling for the Education Fund, there is no threat that the inclusion of the Special Education levy would surpass any tax rate ceiling.

In addition, the school district will not levy in the Liability Insurance (Tort) fund and the Life Safety fund for 2017 levy year. The school district had levied a minimal amount in both funds in the past for the purpose of preserving the right to continue to levy in both funds in the future. According to Tanya Anthofer from the Cook County Clerk's Office who presented at a SSSBO seminar on October 13, 2017, levying in both the Liability Insurance (Tort) fund and the Life Safety fund is not necessary for preserving a school district's right to levy in those funds without going to referendum.

Ridgeland School District 122 2017 Tax Levy Distribution

2016 Tax Extension - Cap Funds

17,479,716

Estimated 2017 Extension - Cap Funds 4.95%

18,345,000

Scho	ol Year	
Levy	Collection	n

2nd 2014 1st 2015 (55% 2014)

1st 2016 (55% 2015) 2nd 2015

1st 2017 (55% 2016) South Tri 2nd 2016

FY19 2nd 2017 1st 2018 (55% 2017)

FY20 2nd 2018 1st 2019 (55% 2018)

FY21
2nd 2019 1st 2020 (55% 2019)
South Tri

Estimate expenditures at 5% increase over current year budgeted expenditures.

Subtract current FY non-levy revenue.

Balance is necessary levy payable the following year.

	Ed	О/М	Debt	Trans	IMRF/SS	Cap Proj	w/c	Tort	Life Safety
FY18 Budgeted Expenditures	23,017,296	1,766,242	N/A	1,489,200	655,895	N/A	-		
Estimated FY19 Expenditures	24,169,000	1,855,000	N/A	1,564,000	689,000	N/A	-		
FY19 Non-Levy Revenue (based on FY18)	10,212,788	19,000	N/A	626,000	6,000	N/A		•	
Calculated 2017 Levy Needs for FY19	13,956,212	1,836,000	N/A	938,000	683,000	N/A			
Estimated 2017 Levy	14,645,000 Limted by PTELL	1,900,000	N/A	1,000,000	700,000	N/A	100,000		•

SPED	-	
Expenditures		
SPED	10-1200	2,669,324
EC	10-1225	266,391
Support Srvcs	10-2100	1,971,114
Tuition	10-4120	1,995,000
Transportation	40-2660	820,000
Benefits	50 1200	122,723
Benefits	50-1225	16,400
Benefits	50-2100	82,900
Conomo	90-2100	7,943,852
Damana		1,010,000
Revenues State SPED		045.544
		645,544
State SPED Trans		600,000
Federal SPED IDEA		460,000
Medicaid		100,000
		- 1,805,544
Calculated 2017 (FY19) Le	vy Noode	6,138,308
Estimated 2017 Lovy		1,500,000

1,500,000 Limited because Tax Rate Coiling of 0.4000 Included levy within Ed Fund

Ridgeland School District 122

Fund Balances	alances				Month:		Include Cash Balance
Fiscal Year	Fiscal Year: 2016-2017				Year. Fund	<u>Year.</u> Fund Type:	FY End Report
Fund	Description	Beginning Balance	Revenue	Expense	Transfers	Fund Balance	
10	EDUCATIONAL	\$18,126,745.93	\$22,287,033.98	(\$21,171,266.34)	\$0.00	\$19,242,513.57	
20	OPERATIONS AND MAINTENANCE	\$1,087,923.10	\$1,776,272.39	(\$1,556,000.81)	\$0.00	\$1,308,194.68	
30	DEBT SERVICE	\$3,456,619.82	\$5,002,695.78	(\$6,911,830.52)	\$0.00	\$1,547,485.08	
40	TRANSPORTATION	\$1,774,661.34	\$1,153,402.22	(\$1,344,210.24)	\$0.00	\$1,583,853.32	
20	MUNICIPAL RETIREMENT	\$471,462.07	\$312,642.64	(\$204,957.27)	\$0.00	\$579,147.44	
55	SOCIAL SECURITY	\$86,858.64	\$311,460.75	(\$352,766.24)	\$0.00	\$45,553.15	
09	CAPITAL PROJECTS	\$677,648.55	\$7,779.32	(\$415,805.10)	\$0.00	\$269,622.77	
20	WORKING CASH	\$3,623,912.35	\$134,628.66	(\$604,879.16)	\$0.00	\$3,153,661.85	
80	TORT IMMUNITY	\$152,314.82	\$12,063.37	\$0.00	\$0.00	\$164,378.19	
06	LIFE SAFETY	\$197,052.53	\$6,408.15	\$0.00	\$0.00	\$203,460.68	
	Grand Total:	\$29,655,199.15	\$31,004,387.26	(\$32,561,715.68)	\$0.00	\$28,097,870.73	

End of Report

ILLINOIS BOARD OF EDUCATION

VOUCHERS AWAITING PROCESSING BY COMPTROLLER

(General Revenue Fund 001 Only as of 11/2/2017)

RCDT: 07016122002

Fiscal Year:

2018

Recipient: WORTH TOWNSHIP SCHOOL TREAS	U		
Program Name	Voucher Number	Voucher Date	Amount
3100 _Special Ed Private Facility Tuition	00013604	09/26/2017	24,033.72
J		Sub Total :	\$24,033.72
3360 _ State Free Lunch & Breakfast	00000330	08/02/2017	22.33
	00006093	09/12/2017	191.29
	00015851	10/03/2017	791.80
		Sub Total :	\$1,005.42
3500 _ Transportation - Regular and Vocational	00011532	09/26/2017	1,906.41
3510 _ Transportation - Special Education	00012535	09/26/2017	176,240.31
3705 _ Early Childhood - Block Grant	00001595	08/16/2017	51,500.00
	00001648	08/16/2017	51,500.00
	00005417	09/06/2017	51,500.00
	00022308	10/18/2017	51,500.00
		Sub Total :	\$206,000.00
		GRAND TOTAL:	\$409,185.86

ILLINOIS BOARD OF EDUCATION

VOUCHERS AWAITING PROCESSING BY COMPTROLLER

(General Revenue Fund 001 Only as of 11/2/2017)

RCDT: 07016122002

Fiscal Year:

2017

Recipient: WORTH TOWNSHIP SCHOOL TREA	ASU	3.1919	
Program Name	Voucher Number	Voucher Date	Amount
3305 - Bilingual Ed T.P.I. & T.B.E.	00090602	04/25/2017	39,288.00
	00121784	08/28/2017	73,163.00
		Sub Total :	\$112,451.00
3360 _State Free Lunch & Breakfast	00103724	06/06/2017	539.02
	00120803	08/23/2017	1,308.60
		Sub Total :	\$1,847.62
3999 - Other State Programs	00093485	05/03/2017	10,520.00
	00102037	06/01/2017	10,520.00
	00114815	07/05/2017	10,520.00
	00119205	08/02/2017	10,520.00
		Sub Total :	\$42,080.00
		GRAND TOTAL:	\$156,378.62

Office of the Cook County Treasurer Agency Collection Distribution Report Tax Year2016 Through 10/31/2017

SCHOOL DISTRICT 122 Agency # 04-0770-000

	Real Estate Collections	Real Estate Refunds	RailRoad Collections	RailRoad Refunds	Total
Taxes Extended	22,130,077.17		14,139.60		22,144,216.77
Gross Taxes Distributed	21,660,581.40		14,139.60		21,674,721.00
General Refunds		(58,732.08)		0.00	(58,732.08)
Illegal Rate Refunds		0.00		0.00	0.00
SP/PTAB Refunds		0.00		00.00	0.00
Total Refunds Recouped		(58,732.08)		0.00	
Net Collections Distributed					21,615,988.92
TIF Rebates					0.00
Interest Earnings					895.03

School Board

Exhibit - Resolution to Regulate Expense Reimbursements

WHEREAS, Section 10-20 of the School Code (105 ILCS 5/10-20) grants school boards other powers that are not inconsistent with their duties;

WHEREAS, Section 10 of the Local Government Travel Expense Control Act (50 ILCS 150/, added by P.A. 99-604, eff. 1-1-17) provides that the School Board shall by resolution regulate the reimbursement of all travel, meal, and lodging expenses of officers and employees, including, but not limited to: (1) the types of official business for which travel, meal, and lodging expenses are allowed; (2) maximum allowable reimbursement for travel, meal, and lodging expenses; and (3) a standardized form for submission of travel, meal, and lodging expenses supported with minimum documentation;

WHEREAS, the Board regulates the types of expenses that are allowed in Board Policies 2:125, Board Member Compensation; Expenses and 5:60, Expenses;

WHEREAS, based upon the School District's budget and other financial considerations, the Superintendent has recommended to the Board a maximum allowable reimbursement amount of \$400 per day, per Board member or District staff;

WHEREAS, the Board requires submission of appropriate standardized expense forms supported with required written minimum documentation (50 ILCS 150/10 and 20);

WHEREAS, submitted expenses that exceed the Board's maximum allowable reimbursement amount may be approved by a roll call vote at an open meeting of the Board when an emergency or other extraordinary circumstance exists (50 ILCS 150/10 and 15);

WHEREAS, all Board member expenses must be approved by a roll call vote at an open meeting of the Board (50 ILCS 150/15);

THEREFORE, BE IT RESOLVED, that the Board hereby:

- 1. Defines and sets the types of allowable expenses through Board policy 2:125, *Board Member Compensation; Expenses* and 5:60, *Expenses*.
- 2. Sets the maximum allowable reimbursement for travel, meal, and lodging expenses to an amount not to exceed \$400 per day, per Board member or District staff, effective on *June 1*, 2017, until the Resolution is rescinded or replaced by the Board.
- 3. Supersedes its previously adopted *Resolution to Regulate Expense Reimbursements* as of the effective date in paragraph two above.
- 4. Requires use of Board exhibits 2:125-E1, Board Member Expense Reimbursement Form; 2:125-E2, Board Member Estimated Expense Approval Form; 5:60-E1, Employee Expense Reimbursement Form; and 5:60-E2, Employee Estimated Expense Approval Form.
- 5. May approve expenses that exceed the Board's maximum allowable reimbursement amount by a roll call vote at an open meeting when an emergency or other extraordinary circumstance exists.
- 6. Must approve its members' expenses by a roll call vote at an open meeting.

Attested by:	, Board President
Attested by:	Board Secretary,

School Board

Board Member Compensation; Expenses

Board Member Compensation Prohibited

Board of Education members provide volunteer service to the community and may not receive compensation for services, except that a Board member serving as the Board Secretary may be paid an amount up to the statutory limit if the Board so provides.

Roll Call Vote

All Board member expense requests for travel, meals, and/or lodging must be approved by roll call vote at an open meeting of the Board.

Regulation of School District Expenses

The Board regulates the reimbursement of all travel, meal, and lodging expenses in the District by resolution. No later than approval of the annual budget and when necessary, the Superintendent will recommend a maximum allowable reimbursement amount for expenses to be included in the resolution. The recommended amount should be based upon the District's budget and other financial considerations.

Money shall not be advanced or reimbursed, or purchase orders issued for: (1) the expenses of any person except the Board member, (2) anyone's personal expenses, or (3) entertainment expenses. Entertainment includes, but is not limited to, shows, amusements, theaters, circuses, sporting events, or any other place of public or private entertainment or amusement, unless the entertainment is ancillary to the purpose of the program or event.

Exceeding the Maximum Allowable Reimbursement Amount(s)

All requests for expense advancements, reimbursements, and/or purchase orders that exceed the maximum allowable reimbursement amount set by the Board may only be approved by it when:

- 1. The Board's resolution to regulate expenses allows for such approval;
- 2. An emergency or other extraordinary circumstance exists; and
- 3. The request is approved by a roll call vote at an open Board meeting.

Advancements

The Board may advance to its members actual and necessary expenses to be incurred while attending:

- 1. Meetings sponsored by the Illinois State Board of Education or by the appropriate Intermediate Service Center.
- 2. County or regional meetings and the annual meeting sponsored by any school board association complying with Article 23 of the School Code; and
- 3. Meetings sponsored by a national organization in the field of public school education.

Expense advancement requests must be submitted to the Superintendent or designee on the Board's standardized estimated expense approval form. After spending expense advancements, Board members must use the Board's standardized expense reimbursement form and submit to the Superintendent: (a) the itemized, signed advancement voucher that was issued, and (b) the amount of actual expenses by attaching receipts. A Board member must return to the District any portion of an

2:125 Page 1 of 3

expense advancement not used. If an expense advancement is not requested, expense reimbursements may be issued by the Board to its members for the activities listed in numbers one through three, above, along with registration fees or tuition for a course(s) that allowed compliance with the mandatory trainings described in policy 2:120, Board Member Development and other professional development opportunities that are encouraged by the School Code, and other training provided by one of the entities described in the above list.(see the Reimbursements and Purchase Orders subhead, below). Expense advancements and vouchers shall be presented to the Board in its regular bill process.

Reimbursements and Purchase Orders

Expense reimbursement is not guaranteed and, when possible, Board members should seek preapproval of expenses by providing an estimation of expenses on the Board's standardized estimated expense approval form, except in situations when the expense is diminutive. When pre-approval is not sought, Board members must seek reimbursement on the Board's standardized expense reimbursement form. Expense reimbursements and purchase orders shall be presented to the Board in its regular bill process.

Credit and Procurement Cards

Credit and procurement cards shall not be issued to Board members.

Standardized Expense Form(s) Required

All requests for expense advancement, reimbursement, and/or purchase orders in the District must be submitted on the appropriate itemized, signed standardized form(s). The form(s) must show the following information:

- 1. The amount of the estimated or actual expense, with attached receipts for actual incurred expenses.
- 2. The name and office of the Board member who is requesting the expense advancement or reimbursement. Receipts from group functions must include the names, offices, and job titles of all participants.
- 3. The date(s) of the official business on which the expense advancement or reimbursement will be or was expended.
- 4. The nature of the official business conducted when the expense advancement or reimbursement will be or was expended.

Types of Official Business for Expense Advancements, Reimbursements, and Purchase Orders

- 1. Registration. When possible, registration fees will be paid by the District in advance.
- 2. Travel. The least expensive method of travel will be used, providing that no hardship will be caused to the Board member. Board members will be reimbursed for:
 - a. Air travel at the coach or economy class commercial airline rate. First class or business class air travel will be reimbursed only if emergency circumstances warrant. The emergency circumstances must be explained on the expense form and Board approval of the additional expense is required. Copies of airline tickets must be attached to the expense form.
 - b. Rail or bus travel at actual cost. Rail or bus travel costs may not exceed the cost of coach airfare. Copies of tickets must be attached to the expense form to substantiate amounts.
 - c. Use of personal automobiles at the standard mileage rate approved by the Internal Revenue Service for income tax purposes. The reimbursement may not exceed the cost of

2:125 Page 2 of 3

- coach airfare. Mileage for use of personal automobiles in trips to and from transportation terminals will also be reimbursed. Toll charges and parking costs will be reimbursed.
- d. Automobile rental costs when the vehicle's use is warranted. The circumstances for such use must be explained on the expense form.
- e. Taxis, airport limousines, or other local transportation costs.
- 3. Meals. Meals charged to the School District should represent mid-fare selections for the hotel/meeting facility or general area, consistent with the maximum allowable reimbursement amount set by the Board. Tips are included with meal charges. Expense forms must explain the meal charges incurred. Alcoholic beverages will not be reimbursed.
- 4. Lodging. Board members should request conference rate or mid-fare room accommodations. A single room rate will be reimbursed. Board members should pay personal expenses at checkout. If that is impossible, deductions for the charges should be made on the expense form.
- 5. Miscellaneous Expenses. Board members may seek reimbursement for other expenses incurred while attending a meeting sponsored by organizations described herein by fully describing the expenses on the expense form, attaching receipts.

LEGAL REF.:

105 ILCS 5/10-20 and 5/10-22.32.

Local Government Travel Expense Control Act, 50 ILCS 150/.

CROSS REF .:

2:100 (Board Member Conflict of Interest), 2:120 (Board Member

Development), 2:240 (Board Policy Development), 4:50 (Payment Procedures),

4:55 (Use of Credit and Procurement Cards), 5:60 (Expenses)

ADOPTED:

December 15, 2016

2:125 Page 3 of 3

RIDGELAND SD 122

			BREAKF	AST COUNTS		
	Kolb	Harnew	Lieb	Columbus Manor	Simmons	Days of School
October 2016	2167	1295	325	410	1472	19
per day	114	68	17	22	77	
October 2017	2747	2156	682	1378	2877	19
pe r day	145	113	36	73	151	
% increa se	27%	66%	110%	236%	95%	

			LUNC	H COUNTS		- 111
	Kolb	Harnew	Lieb	Columbus Manor	Simmons	Days of School
October 2016	2679	3567	3170	2270	7673	19
per day	141	188	167	119	404	
October 2017	2990	4581	3616	3557	9618	19
pe r day	157	241	190	187	506	
% increase	12%	28%	14%	57%	25%	



October 30, 2017

VIA E-MAIL dogarek@ridgeland122.com (34) Page(s) Inclusive

Mr. Doug Ogarek Assistant Superintendent of Finance and Business Operations 6500 W. 95th Street Oak Lawn, IL 60453

Re:

Ridgeland School District 122

Harnew Chiller Review and Recommendation

Architect's Project Number: 17-050

Chiller Report

Dear Mr. Ogarek

Please see attached recommendation letter from our Mechanical Engineer (Elara) about the existing chiller at Harnew Elementary School.

Sincerely,

TRIA ARCHITECTURE, INC.

Thomas R. Szurgot Principal Architect

Attachments: Harnew Chiller Review and Recommendation (Elara), Dated 10/27/17,

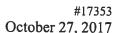
33 Pages

CC:

None

File Name:

17050LTR103017.docx





Mr. Thomas R. Szurgot, AIA, LEED AP Principal Architect Tria Architecture 1920 Ridge Road, Suite 209 Homewood, IL 60430

Re: Ridgeland School District 122 Harnew Elementary School - Chiller Review and Recommendation

Dear Tom,

Thank you for the opportunity to provide you with this chiller review and recommendation for the existing roof mounted air-cooled chiller serving Harnew Elementary School, part of Ridgeland School District 122. The purpose of this report is to assist the school district in deciding whether to repair or replace the existing chiller for the 2018 cooling season and beyond.

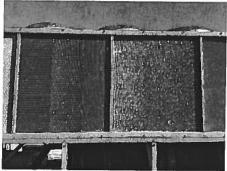
Existing Chiller (pictured top right)

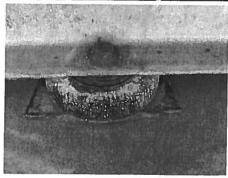
The existing chiller is manufactured by Trane and is rated for a nominal capacity of 200 tons. The chiller is currently 17 years old and is located on the roof towards the north end of the building. The chiller has two original "screw" type compressors and two independent refrigeration circuits allowing 50% of the chillers capacity to operate in case of failure of one circuit. The chiller was manufactured in 2000 to operate on R-22 type refrigerant. R-22 is currently being phased out by the EPA and will no longer be manufactured by the year 2020. Currently circuit 1 remains operational on R-22 refrigerant. Approximately 3 years ago circuit 2 was retrofit to operate on R-407c refrigerant. However, circuit 2 is currently not operational, has had all its R-407c refrigerant removed and a nitrogen holding charge installed to facilitate leak checking of this circuit (pictured second from top right). Furthermore, the compressor of circuit 2 is exhibiting signs of initial internal failure apparent by its unusual operating sound. Repairs to this chiller are reported to have begun three years ago.

Additionally, the existing chiller has hail damage to the condenser coil and deterioration of all elastomeric vibration isolators supporting the chiller (pictured bottom two right).









Enclosed is a report and from the chillers servicing contractor on current condition and recent repair history. The report cites over \$12,000 in 2017 repairs to date with an estimated over \$30,000 in additional required repairs. The estimated \$30,000 in additional repairs excludes a compressor replacement, which is suspected as soon being required for circuit 2. Of note in the report is that circuit 2 no longer holds a vacuum which is indication of a leak within the circuit. The report indicates the leak is suspected of being in the chiller's evaporator heat exchanger. As is typical with required repairs of this significance, the report indicates "..no long term operational guarantees on the work."

Per the American Society of Heating Refrigeration and Air conditioning Engineers (ASHRAE), the estimated useful service life of an air-cooled chiller is 20 years. Therefore, the existing chiller is near the end of its useful service life. Additionally, circuit 1 of the chiller utilizes R-22 refrigerant which will continue to rise in cost and is currently 3 to 4 times the cost of more current refrigerants. Lastly, energy efficiency codes have required the efficiencies of chillers and related equipment to significantly improve since the year 2000 which translates into reduced operating cost for new equipment.

The compressor, evaporator heat exchanger and condenser coil are the three most important components of the chiller. Currently, all three components are either in need of immediate repair, soon will require repair or have experienced damage.

Given the age of the existing chiller, the significant immediate and foreseeable future required repairs, we recommend no further investment in this chiller be made by the school district.

New Chiller

The criteria for evaluating the replacement of an air-cooled chiller with a new air-cooled chiller include the following:

- 1. Chiller cost (equipment only)
- 2. Construction cost
- 3. Operating cost/Efficiency
 - a. Utility Incentive (as efficiency increases, incentive increases)
- 4. Equipment history (i.e. how long has the chiller been in production)
 - a. Reliability
 - b. Maintenance
 - c. Compressor number and type (screw, scroll)
- 5. Physical dimensions and service clearances
 - a. Are support and/or roofing modifications required?
- 6. Weight
 - a. Are structural modifications required?
- 7. Sound and vibration
- 8. Refrigerant type
- 9. Redundancy
 - a. What is the remaining capacity in the event of a component failure?
- 10. Controls
 - a. Are the new chiller controls compatible with the building's control system?
- 11. Capacity
- 12. Electrical requirements

Several chiller manufacturers were provided information regarding the existing chiller and were asked to provide their selections (enclosed) for replacement of the existing chiller. Response from Trane, Daikin and Carrier were received and a cursory review of their information is as follows:

- 1. Trane, Daikin and Carrier have chillers whose physical dimensions allow the chillers to sit on the roof rails supporting the existing chiller. This avoids roofing modifications.
- 2. Trane offers only screw compressors while Daikin and Carrier offer both screw and scroll compressor chillers.
 - a. The scroll compressor chillers operate on R-410a refrigerant. The screw compressor chillers operate on R-134a. Currently these are the most prevalent commercially available refrigerants. There was a scheduled phase out for these (and R-407c) refrigerants beginning in the year 2024 but that has been stayed by the courts.
 - b. Scroll compressor chillers trend towards lower initial chiller cost and lower sound levels.
- 3. A onetime utility company incentive for higher than code minimum efficiency chillers ranges from \$7,000 to \$22,000 dollars for this capacity chiller, with more efficient chillers qualifying for the higher amounts. The incentive programs vary each year and amounts are not guaranteed.
- 4. The chiller cost (equipment only, not installed) ranges from approximately \$80,000-\$120,000 depending on efficiency, accessories, etc...
- 5. All chillers incorporate an open protocol BACnet communications card. This requires an upgrade to the control wiring between the recently upgraded control system at Harnew elementary and new chiller.

As can be seen from the above review of the manufacturers' responses, the chiller that represents the best long-term value to the school district and Harnew Elementary School requires a thorough engineering analysis.

We suggest the school district budget \$225,000 for this chiller replacement.

The next step would be to prepare the necessary engineering documentation that will allow identification of the chiller that represents the best long-term value and to secure *truly* competitive bids for the chiller purchase and installation. This phase of engineering includes permit assistance, periodic construction inspection, functional testing and many other services which provide a check and balance to the contractor's work.

We look forward to continuing our working with you and the Ridgeland School District 122. Please do not hesitate to call if there are items in this report that need further clarification.

Respectfully Submitted,

1 atten B. King

Nathan B. Kinsey, PE, LEED AP Project Engineer/Team Leader

Elara Engineering

Enclosures



Amber Mechanical Contractors, Inc.

11950 South Central Avenue, Alsip, IL 60803

Tuesday, October 24, 2017

Steve Maze, Principal – Elara Engineering30 N WOLF RD, 2ND FLOOR • HILLSIDE, IL 60162
V: 708-236-0300 x112 • F: 708-236-0330

RE: Harnew Chiller – Ridgeland School District #122

Steve-

Please see attached in regards to the Chiller at Harnew Elementary School.

Existing Chiller's a Trane RTAA215, Serial # 400k04232.

Amber Mechanical has serviced this chiller numerous time, most recently in attempts to get the chiller to operate, we have had to manual add refrigerant and monitor pressures. The Chiller appears to have a leak in the bundle. In order to maintain operation the district has called Amber to Service. The recent invoices are over \$12,000.00.

At this point it would be our assessment that a replacement chiller should be reviewed as an alternative. Otherwise, the direct would be looking a complete chiller recommissioning and rebuild. Similar costs estimate above \$30,000.00 with no long term operational guarantees on the work.

Please let me know if you have any further questions.

Sincerely,

David M Schramm, P.E.

Engineering Manager/Business Development

DOM &

Cell: 708-351-0405

AMBER MECHANICAL CONTRACTORS, INC.

11950 S. CENTRAL AVENUE ALSIP, IL 60803-3402

Invoice: 0435248

Page 1 of 1

Location: 22248

HARNEW SCHOOL DIST #122

9101 MEADE AVE

OAK LAWN, IL 60453

Phone: (708) 597-9700



Invoice Date:

03/31/2017

Serviced:

03/27/2017

Bill To: 22249

RIDGELAND SCHOOL DIST #122

6500 W 95TH ST **OAK LAWN, IL 60453**

Invoice Memos

PER TONY CALLING IN, HE WOULD LIKE US TO CLEAN HIS COIL IN HIS CHILLER.

AWARE OF \$60 SVC + \$140/HR PORT TO PORT.

CALL TONY WHEN WE'RE ON OUR WAY.

THEY GET IN AT 7AM.

TONY - MAINTENANCE DIRECT# 708-599-5550; CELL #708-548-1528. 2017

	Invoice D	etaila		
Product ID/Tech ID	Description	Unit Price	Quantity U/M	Extended Pric
350	OLIVA, JAIME	140.00	8.00	The second secon
350	OLIVA, JAIME			1,120.0
350	SERVICE TRUCK CHARGE	140.00	0.10	14.0
	OLIVIOL TROOK CHARGE			60.0

	1	SEL HOURS		VAL TIME		ALL LE	VEL TIME																		YTITNAL		8	161/		LENGE
ALL SERVICE WORK G.O.D.	CASTOMER SHOWATURE	IN ANY ESUPPIXENT OF MATCHAIL HAT MAY BE FURNISHED UNTIL FINAL PAYMENT IS MADE AND IT SETTLEMENT IS NOT MADE AS AGREED, THE SELLER SHALL HAVE THE RIGHT TO REMOVE SAME AND THE SELLER WILL BE HELD HARMLESS FOR ANY BANAGES RESULTING FROM THE REMOVAL THEREOF.	I HAVE AUTHORITY TO DROKE IT IS AGREED THAT THE SELLER WILL RETAIN TITLE THAT THE SELLER WILL RETAIN TITLE TO HAVE AUTHORITY TO DROKE IT IS AGREED THAT THE SELLER WILL RETAIN TITLE TO HAVE AUTHORITY TO DROKE IT IS AGREED THAT THE SELLER WILL RETAIN TITLE						□ RECOMMENDATIONS □ BACKORDERS □ JOB COMPLETED	TOTAL MATERIALS	MISCELLANEOUS MATERIAL														Y ITEM NUMBER & DESCRIPTION AMOUNT	UNIT NO.	CALL BEFORE DAM, WORK TO BE PE	PERSON CALLING OTY	м / ДЕВ АВ СЕСИНОНПЛА	dame School Dist. 122 Harrey 0
101 1.8 086 877 64 11		LABOR DNLY In the event that labor only is sold, a thirty (30) day guarantee will be given from data service is performed, except failure of customer's perf installed by us will be	EXCLUDED Fixers, fuses, nozzies, humidifier pads, thermocouples, and refrigerant will not be guaranteed as those are consumed parts.	change for a period of 90 days after installation, and will assist in obtaining the benefits of manufacturers warranties on parts and materials for any longer period for which they may be applicable.	90 DAY GUABANTEE Amber Mechanical Contractors, inc. warrants all parts and material to be free of LABOR manufacturing and installation referred and according to the free of LABOR.	art .	ARRIVE	A BEG	PARESULAR TIME DVERTIME DOUBLE TIME GUOTE			0 1	ariar .	appeared very Clean, Conden	little debris was extracted for	Condusor hashed from insid	3127 Kressure washed Air cooled	DESCRIPT	UODKO4237	MAKE MODEL SERIAL NUMBER) MODEL		DITY STATE	Local Landin		33348 www.amberhvac.com	708-597-9700	ALSIP, IL	11950 S. CENTRAL AVE	AMBER MECHANICAL CONTRACTORS INC
IS: NET DUE LIBON COMBI ETION	E AMDUNT	RECOVERY	PARTS, PICK UP. DELIVERY	TRUCK	A HOURS	MATERIALS	ITEM AMOUNT	CK # B0r	INTERNAL INSTALLATION			Time Same	ski cal	n	from coil coil	be out very	chiller coils on		DISPOSAL OWNER'S	THIS SYSTEM? TYES NO GTY	RECLAIMED? C YES C NO GTY.	RECYCLED? DYES DIND GTY.			EPA REFRIGERANT REQUIREMENTS	Manden	DATE 3.27-17 435248	SERVICE WORK ORDER	FACTORS, INC.	

Service Work Order Invoice

AMBER MECHANICAL CONTRACTORS, INC.

11950 S. CENTRAL AVENUE ALSIP, IL 60803-3402

Phone: (708) 597-9700

Invoice: 0437903 Page 1 of 1

Location: 22248

HARNEW SCHOOL DIST #122 9101 MEADE AVE OAK LAWN, IL 60453

Bili To: 22249

RIDGELAND SCHOOL DIST #122

6500 W 95TH ST OAK LAWN, IL 60453

AMBER MECHANICAL CONTRACTORS, INC. Over carr Since 1959

Invoice Date:

09/30/2017

Serviced:

09/22/2017

Invoice Memos

PER JOE CALLING IN, THE TRANE CHILLER IS NOT COOLING. IT WILL RUN FOR 30 SECONDS AND SHUTS OFF.

JOE'S CELL# 708-541-0600.

PER TONY CALLING IN, THEY WERE APPROVED TO PAY OVERTIME RATES, BUT NEEDED A CHILLER

** TONY IS IN AT 6AM. THE EARLIER, THE BETTER. **

TONY'S CELL# 708-548-1528.

	Invoio	e Details		
Product ID/Tech ID	Description	Unit Price	Quantity U/M	Extended Prio
347	ESCUE, CHRISTOPHER W	140.00	0.70	98.0
347	ESCUE, CHRISTOPHER W	210.00	1.80	378.0
348	BAYLES, BRYAN J	140,00	4.10	574.0
347	SERVICE TRUCK CHARGE			60.0

THANKS FOR CHOOSING AMBERIII

Total Due:

1.110.00

		PAVEL HOURS		ARRIVAL TIME		START TIME	TRAVEL TIME																			YTITNAUL	TIAL MILES	89E	W	ADING I
ALL SERVICE WORK C.O.D.	WAL THEHEUR	TO ANY EQUIPMENT OR MATERIAL THAT MAY BE FURNISHED WITH FINAL PAYMENT IS MADE AND IF SETTLEMENT IS NOT MADE AS AGREED. THE SELLER SHALL HAVE THE RIGHT TO REMOVE SAME AND THE SELLER WILL BE HELD HARMLESS FOR ANY FORMAL PAYMENT IS NOT MADE AS AGREED. THE SELLER SHALL HAVE THE RIGHT TO REMOVE SAME AND THE SELLER WILL BE HELD HARMLESS FOR ANY THE WILL BE HELD HARMLESS FOR ANY THE SELLER WILL BE HELD HARMLESS FOR ANY THE WILL BE HELD WILL BE WILL BE WILL B	HAVE AUTHORITY TO ORDER THE WORK, WHICH HAS BEEN SATISFACTION OF THE WORK WHICH HAS BEEN SATISFACTION OF THE WORK WHICH HAS BEEN SATISFACTION.						DI NECONIMIENDATIONS DOMONOCONDESSO DI COMPTETE ED	D BACKOBORBS	TOTAL MATERIALS	MISCELLANEOUS MATERIAL														ITEM NUMBER & DESCRIPTION AMOUNT	UNIT NO.	CALL BEFORE DAM, WORK TO BE RESPONSED	B CHOI MENDE	AUTHORIZED BY STREET UNIT NO.
5/7 E 1/8	3 4		EXCLUDED EXCLUD	 benefits of manufacturers warrandes on parts and materials for any longer period for which they may be applicable 	Amber Mechanical Contractors, inc. warrants all parts and material to be free of manufacturing and installation defects, and agrees to replace such parts without charge for a period of SO days after installation, and will assist in obtaining the	SERVICE QUARANTEE	200	E START ARRIVE FINISH	TYPE OF CLASSIAN INVARIANTY IT SERVICE AGREEMENT	PATE PREGULAR TIME OVERTIME DOUBLE TIME QUOTE				CHECK oil LOW ON CIR A	To Run EXD'S THRU TEST	ES GRE	MULTIPLE TIMES TO OBS	CHEKED CHILLER ALBERTS.	DATE DESCRIPTION OF WORK PERFORMED		MAKE NOOEL SERIAL NUMBER	TRANE RTHARKY Y TOIASDIBEN	MAKE MODEL SEMAL NUMBER	CITY STATE 200	STREET.	NAVE TO ME	2248 www.amberhvac.com	708-597-9700	ALSIP, IL	S CENTRAL AVE
ERMS: NET DUE UPON COMPLETION	VOICE AMDUNT	RECOVERY	DELIVERY OF	CHARGE	TRUCK	AROR HOURS	S	TEM	TALL BACK TUDB #	**************************************			To the second se		ST MOR and	Donot Will RETURKI	absoure what The	CYCLED CHILLER	PERFORMED	DISPOSAL NITIALS	NON USEABLE? [] YES	THIS SYSTEM? TYES IN NO GITY.		RECYCLED? YES NO OTY		EPA REFRIGERANT REQUIREMENTS	FRE	DATE 9/22/1437903	SERVICE WORK ORDER	CONTRACTORS, INC.

Service Work Order Invoice

AMBER MECHANICAL CONTRACTORS, INC.

11950 S. CENTRAL AVENUE

ALSIP, IL 60803-3402

Invoice: 0437904 Page 1 of 1

Location: 22248

HARNEW ELEMENTARY SCHOOL

9101 S MEADE AVE **OAK LAWN, IL 60453**

Bill To: 22249

RIDGELAND SCHOOL DIST #122

6500 W 95TH ST OAK LAWN, IL 60453

AMBER MECHANICAL CONTRACTORS, INC.

Invoice Date:

09/30/2017

Serviced:

09/27/2017

Invoice Memos

Phone: (708) 597-9700

PERFORM CHILLER REPAIRS.

	Invoice De	tails			
Product ID/Tech ID	Description	Unit Price	Quantity	U/M	Extended Price
VI	OIL TEST KIT	231,87	1.00	EA	231.87
SA-12FM	SITE GLASS 1/4" FLARE-SPORLA	52.67	1,00	EA	52.67
VI	RECLAIMER USAGE	100.00	1.00	EA	100.00
M	OIL DESPOSAL	100.00	1.00	EA	100.0
MISC	MISCELLANEOUS MATERIALS & SU	2,90	50.00	EA	145.00
347	ESCUE, CHRISTOPHER W	140.00	00.8		1,120.0
347	ESCUE, CHRISTOPHER W	140.00	3.20		448.0
90	ALDERDEN, JAMES R	140.00	5.80		812,0
290	ALDERDEN, JAMES R	140.00	2.70		378.0
147	ESCUE, CHRISTOPHER W	140.00	4.70		658.0
90	ALDERDEN, JAMES R	140.00	6.50		910,0
347	ESCUE, CHRISTOPHER W	140.00	3.20		448.0
290	ALDERDEN, JAMES R	140.00	7.50		1,050.0
347	SERVICE TRUCK CHARGE				60.0

THANKS FOR CHOOSING AMBERIII

Total Due:

6,513.54

PAWEL HOURS	DATE	η/2c		8							JANITY			Ş Ç
HAVE AUTHORITY TO GRDER THE WORK WHICH HAS BEEN SATISFACTORILY PERFORMED AS QUIJUNED ABOVA, IT IS AGREED THAT THE SELLER WILL RETAIN TITLE TO ANY EQUIPMENT OF MATERIAL THAT MAY BE FURNISHED UNTIL FINAL PAYMENT TO MAY BE THE SAME AND THE SELLER WILL BE HELD HARMLESS FOR ANY BOANDES AND THE SELLER WILL BE HELD HARMLESS FOR ANY DAVIDES AND THE SELLER WILL BE HELD HARMLESS FOR ANY DAVIDES AND THE SELLER WILL BE HELD HARMLESS FOR ANY DAVIDES AND THE SELLER WILL BE HELD HARMLESS FOR ANY DAVIDES AND THE SELLER WILL BE HELD HARMLESS FOR ANY DAVIDES AND THE SELLER WILL BE HELD HARMLESS FOR ANY DAVID SELLER WILL BE HELD HARMLESS	YS7904 347 HOURS RATE AMOUNT 2	JOB NAME OR NUMBER EMP NO. OPER HOURS RATE AMOUNT 4 437904 240 65 77	TOTAL MATERIALS ☐ JOB COMPLETED	MISCELLANEOUS MATERIAL				PRICE OF ON DISPOSED LOS DE	6/45 S	8A-12FM	LIEW NOWBER & DESCRIPTION AMOUNT		CALLING CTY LALLY TO SE PERFORMED	AUTHORIZED BY SHETT MEAN OF UNIT NO.
DATE JOB NAME OR NUMBER EMP. NO. OPER. HOURS RATE AMOUNT AND	SERVICE GUARANTEE And Inc. warrants all parts and reternal to be free of the conditions defects, and agrees to replace such-parts whous day, after installation, and will pariet who the conditions on parts and materials are agreement or parts and materials are agreement.	SHIDP TIME START ARRIVE ARRIVE FINISH CALL BACK	ADDI'M & REPLIGATION TO CIR!	on some will there to	15 CURROLLE OF BERNING BOOM	Sussien To MONITOR HETED DI	THOM RELADING ON A HISO RELAD	DATE DESCRIPTION OF WORK PERFORMED	TRACE RTA AJUSTY INTER SERIAL NUMBER MODEL 400/201232	MAKE MODEL SEPAL NUMBER	P.O. #		60803-3402 708-597-9700 www.amberhvac.com	S. CENTRAL AVE
PELIVERY JANT HAY NET QUE UPON COMPLETION	ABOR HOURS TRUCK CHARGE PARTS, PICK UP	ITEM AMOUNT MATERIALS	TIMTERNAL TIMETALLATION	Resulte 10 constitue	The side of the	DISCHARGE PRESSURE	Topid oi) 70 E	CALLIFA.	NON USEABLE? THIS SYSTEM? THIS SYSTEM? THIS SYSTEM? THIS SYSTEM? THE SYSTEM? T	RECLAIMED? TYES TO BITY.	7.000	EPA REFRIGERANT REQUIREMENTS	DATE (135/1)-437904	CONTRACTORS, INC.

Service Work Order Invoice

AMBER MECHANICAL CONTRACTORS, INC.

11950 S. CENTRAL AVENUE

Phone: (708) 597-9700

ALSIP, IL 60803-3402

Invoice: 0437913 Page 1 of 1

Location: 22248

22248 1 HARNEW ELEMENTARY SCHOOL

9101 S MEADE AVE

OAK LAWN, IL 60453

Bill To: 22249

RIDGELAND SCHOOL DIST #122

6500 W 95TH ST **OAK LAWN, IL 60453**

AMBER MECHANICAL CONTRACTORS, INC. ear / Since 1959

Invoice Date:

10/11/2017

Serviced:

10/04/2017

Invoice Memos

CONTINUE CHILLER REPAIRS.

	Invoice De	tails			
Product ID/Tech ID	Description	Unit Price	Quantity	U/M	Extended Pric
09-1191	VACUUM PUMP OIL QUART	30.00	2,00	QT	60.0
N	NITROGEN / CUBIC FOOT (EXCHA	0.85	120.00	CUF	102.0
347	ESCUE, CHRISTOPHER W	140.00	2,60		364.0
347	ESCUE, CHRISTOPHER W	210.00	2.90		609.0
290	ALDERDEN, JAMES R	140,00	2.60		364.0
290	ALDERDEN, JAMES R	210.00	2.90		609.
347	ESCUE, CHRISTOPHER W	140.00	3.50		490.0
290	ALDERDEN, JAMES R	140.00	3.50		490.0
347	ESCUE, CHRISTOPHER W	140.00	2.60		364.0
347	ESCUE, CHRISTOPHER W	210.00	2.20		462.0
290	ALDERDEN, JAMES R	140.00	0.50		70.
290	ALDERDEN, JAMES R	210.00	2.70		567.

THANKS FOR CHOOSING AMBERIII

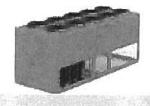
Total Due:

4,551.00

APPRIVAL TIME JOB NAME OR NUMBER EMP NO. OPER HOURS RATE AMOUNT 6 JAIP. ATE JOB NAME OR NUMBER EMP NO. OPER HOURS RATE AMOUNT 6 JAIP. ATE JOB NAME OR NUMBER EMP NO. OPER HOURS RATE AMOUNT 6 JAIP. ATE JOB NAME OR NUMBER EMP. NO. OPER HOURS RATE AMOUNT 6 JAIP. ATE JOB NAME OR NUMBER EMP. NO. OPER HOURS RATE AMOUNT 6 DATE JOB NAME OR NUMBER EMP. NO. OPER JOB NAME OR NUMBER	TRAVEL TIME SHOPTIME /6/2		DATE JOB NAME OR NUMBER EMP. NO. OPER. HOURS RATE AMOUNT 4 LONG VIST 912 S47 DATE JOB NAME OR NUMBER EMP. NO. OPER. HOURS RATE AMOUNT 9 DATE JOB NAME OR NUMBER EMP. NO. OPER. HOURS RATE AMOUNT 9 10 14 437913 290 3.2 2,707	1) IROGAN TRANCE MAKE	ABER & DESCRIPTION AMOUNT	ENDING AUTHORIZED BY STREET PERSON CALLING ON START CALL BEFORE GAM, WORK TO BE PERFORMED TOTAL MILES UNIT NO. WAVE UNIT NO. 1224
SERVICE GUARANTEE Anther fried standard Certifications. Inc. volumes all parts and material to be free of the property of the	START AFRICE AGREEMENT L'CALL BACK L'JUB # START AFRICE FRUSH START MATERIALS MATERIALS	TIME OVERTIME ODUBLETIME OUDTE OINTERNAL	System A, and Also Rec Prom ciecuri B. TAJED E Willoben to Messure To Nilloben to Messure To	DESCRIPTION OF WORK PERFORMED ORIGINAL DESCRIPTION OF WORK PERFORMED	SERIAL NUMBER	11950 S. CENTRAL AVE ALSIP, IL 60803-3402 708-597-9700 www.amberhvac.com Prove EPA REFRIGERANT REQUIREMENTS

Technical Data Sheet for 195 Ton Std Eff

Job Information		Technical Data Sheet
Job Name	Air Cooled Budget	
Date	10/24/2017	
Submitted By	Michael Murray	
Software Version	08.00	
Unit Tag	195 Ton Std Eff	



Model Number	Capacity ton	IPLV.IP* EER Btu/W.h	Voltage	Unit Starter Type	ASHRAE 90.1	LEED EA
AGZ211E	195.3	16.13	460 V / 60.0 Hz / 3 Ph	Across the Line	'07, '10, '13/'16	Pass

Unit							
Mark to the second	Unit Type			Platform		Sent Syca	Unit Revision
Air	-Cooled Scroll Comp	ressor Chiller		Package			00
	Head Pressur	e			Tubing	MILESON	
	Fantrol Only (32°	F Min)	Rep	laceable Filter Dryer wit	The second secon	& Liqu	id Valves, no HGBI
ALC: NO.	Unit Control				Display		
	Electronic Expansi	on Valve		On (ontroller o	nly	Decree of
No.	Refrigerant Ty	pe		Ref	rigerant Weigl	nt	
	R410A			TO SHARE THE TOTAL SERVICE SECTION OF SERVICE	32 lb (per unit	the Arrange State of the	· · · · · · · · · · · · · · · · · · ·
Mary 1955			Pump Contro			MILLION AND	
		Dual Evapo	rator Pumps - Du	al Control Output			医神经神经神经神经
	电影响器和图像		Approval			MINE AND I	
		ETL	/cETL, AHRI & AS	HRAE 90.1		1.500	建工艺工艺工艺
		His College (A)	Evaporator	The state of the s		Saudine Sec	CHANGE THE RESIDENCE OF THE STATE OF THE STA
Water Volume:	18.0 gal				NEW PROPERTY.	323	
Connection Hand:	Universal Connect	ion - Facing out	back				10000000000000000000000000000000000000
Connection Size:	6.0 in						
Insulation:	Single Layer Insula	tion to Suction a	at each Compress	sor			The second of the second
Entering Fluid Temperature	Leaving Fluid Temperature	Fluid Type	Fluid Flow	Fluid Flow Min / Max	Pressure i	Orop	Fouling Factor
54.00 °F	44.00°F	Water	466.6 gpm	187.2/ 780.2 gpm	10.9 ft i	120	0.000100 °F.ft².h/Btu
			Condenser				
Coil Fins:	MicroChannel				1411745	THE PASS	
Guards:	Condenser Coil Lor	uvers & Base Fra	me Wire Grilles				
Design Ambient Air Temperature	Altitude		Fan Diameter	Nominal Fan Mo Horsepower	PRINT AND PRINTING KIND		ım Design Ambient emperature
95.0 °F	0.000 ft		30.0 in	2.0 hp	Marie and Marie and Mind		32.0 °F

Job Number: 72WHA1 Page **Prepared Date:** 10/24/2017 Job Name: Air Cooled Budget 3 of 30 www.DaikinApplied.com

Technical Data Sheet for 195 Ton Std Eff

Unit Perf	ormance									
A STATE OF				100	Design					1000
	Capacity		Inpu	t Power		Efficien	cy (EER)		IPLV.IP* (EER)
	195.3 ton		229	9.9 kW		10.19	Btu/W.h		16.13 Btu/W	.h
	为自己的基础		Per	formance Poli	nts rated at AHI	RI Ambient Re	elief			
	TRANSI	Unit				Evap	porator		Conde	nser
Point #	% Load	Capacity ton	Input Power kW	Efficiency (EER) Btu/W.h	Fluid Flow gpm	Pressure Drop ft H ₂ O	Entering Fluid Temperature *F	Leaving Fluid Temperature °F	Ambient Air Temperature *F	Altitude ft
1	100.0	195.3	229.9	10.19	466.6	10.9	54.00	44.00	95.0	0.000
2	75.0	146.5	125.9	13.96	466.6	10.9	51.50	44.00	80.0	0.000
3	50.0	97.66	67.87	17.27	466.6	10.9	49.00	44.00	65.0	0.000
4	25.0	48.83	29.72	19.72	466.6	10.9	46.50	44.00	55.0	0.000

^{*} IPLV reflects AHRI standard rating conditions and does not change with user defined conditions

					Sound Pressu	re (at 30 feet)					
63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1 kHz dB	2 kHz dB	4 kHz dB	8 kHz dB	Overall dBA	75% Load dBA	50% Load dBA	25% Load
70	71	70	67	66	62	62	58	71	70	68	67
					Sound	Power					
63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1 kHz dB	2 kHz dB	4 kHz dB	8 kHz dB	Overall dBA	75% Load dBA	50% Load dBA	25% Load dBA
97	98	97	94	94	90	89	85	99	98	96	95

Octave band is non 'A' weighted and overall readings are 'A' weighted. Sound data rated in accordance with AHRI Standard-370.

		Unit		
Length*	Height	Width*	Shipping Weight*	Operating Weight*
283 in	99 in	88 in	9229 lb	9379 в

^{*}Shipping and Operating Weights include the below Option weights only and do not include the weights of any Accessories. Contact Chiller Applications for additional information.

Option Weig	ghts
-------------	------

Louvers: 560 lb Total: 560 lb

Job Number:72WHA1PagePrepared Date:10/24/2017Job Name:Air Cooled Budget4 of 30www.DaikinApplied.com

Technical Data Sheet for 195 Ton Std Eff

	Unit Electrical Data		
Starter Type	Fan Motor Quantity	LRA Fan Motor (each)	FLA Fan Motors (each)
Across the Line	12	18A	3.6A
High Short Circuit Curren	t Rating with Single Point (Disconnect Switch and Circ	uit Protection
65 kA		AND THE SECOND	
	Single Point Power Connection		
443.1 A			
		AND THE VERTICAL DAY OF THE BUILDINGS HERE	THE STATE OF A STATE OF STATE OF
500 A			
500 A 500 A			
	Across the Line High Short Circuit Curren 65 kA	Starter Type Fan Motor Quantity Across the Line 12 High Short Circuit Current Rating with Single Point I 65 kA Single Point Power Connection	Starter Type Fan Motor Quantity LRA Fan Motor (each) Across the Line 12 18A High Short Circuit Current Rating with Single Point Disconnect Switch and Circuit KA Single Point Power Connection

THE NEW			Compre	ssor Electrical Data		THE SECOND PROPERTY.			
	Compressor Type		Com	pressor Quantity		e			
	Scroll			6		Across the Line			
	Circuit #:		1			2			
Miles I	Compressor #:	1	3	5	2	4	6		
	RLA:	57.2 A	76 A	57.2 A	57.2 A	76 A	57.2 A		
	Inrush Current:	310 A	408 A	310 A	310 A	408 A	310 A		

Note: Power wiring connections to the chiller may be done with either copper or aluminum wiring. Wire should be sized per NEC and/or local codes. Wire sizing and wire count must fit in the power connection lug sizing listed in latest installation manual. Please contact your local sales office for more information.

Options		
	Basic Unit	
Control Box Ambient:	High Ambient with Exhaust Fans (125°F ma	aximum)
Suction Shut-off Valve:	Included	
THE ASSETS OF	Control	
Communication:	BACnet MS/TP	and the second of the party of the Walking with
国际	Electrical	
Water Flow Indicator:	Thermal Dispersion Type	

Warranty

Unit Startup Domestic

Standard Warranty: 1st Year Entire Unit Parts & Labor

Extended Compressor Warranty: Compressor Only; extended 4 years parts only

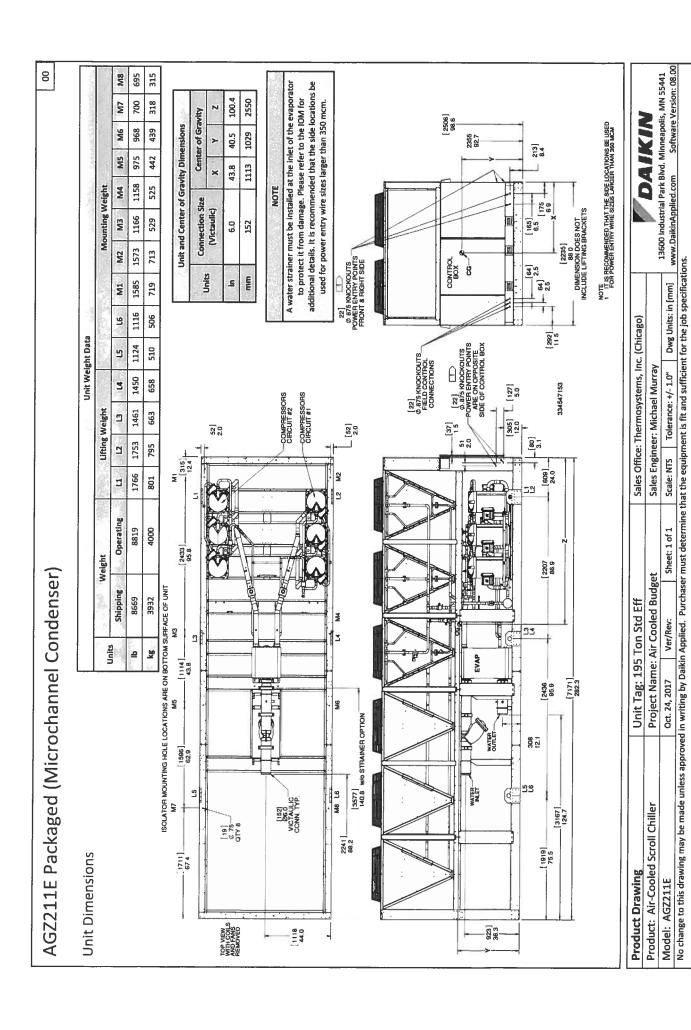
AHRI Certification



Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org

Acce	essories	
		Optional
Bia	Part Number	Description
	332320108	Spring Isolator Kit; AGZ: Packaged, Al Fin 190D, 190E/191E/210E/211E, 180E Dual Pmp

Job Number:72WHA1PagePrepared Date:10/24/2017Job Name:Air Cooled Budget5 of 30www.DaikinApplied.com



Technical Data Sheet for 195 Tons High Eff

Job Information		Technical Data Sheet
Job Name	Air Cooled Budget	
Date	10/24/2017	
Submitted By	Michael Murray	
Software Version	08.00	
Unit Tag	195 Tons High Eff	



Unit Overview											
Model Number	Capacity ton	IPLV.IP* EER Btu/W.h	Voltage	Unit Starter Type	ASHRAE 90.1	LEED EA Credit 4					
AGZ211E	195.3	17.02	46 <u>0</u> v / 60.0 Hz / 3 Ph	Agross the Line	'07, '10, '13/'16	Pass					

^{*} IPLV reflects AHRI standard rating conditions and does not change with user defined conditions.

Unit	A PART OF THE PART					。这种是现在是
	Unit Type			Platform		Unit Revision
Air-	Cooled Scroll Compr	essor Chiller		High Efficiency Pa	ackaged	00
	Head Pressure		TENDER HO	A ROSTAN	Tubing	
VFD's	w/o Line Reactors [H	ligh Efficiency]	Repla	aceable Filter Dryer with	n Discharge & Liqu	id Valves, no HGI
	Unit Controls				Display	
	Electronic Expansion	n Valve		On C	ontroller only	
	Refrigerant Typ	ie		Refr	igerant Weight	
	R410A			18	2 lb (per unit)	
	CANADA MARINA		Pump Control	s de la companya de		
		Dual Evapor	rator Pumps - Du	al Control Output		
E .			Approval			
		ETL/	CETL, AHRI & ASI	HRAE 90.1	以及人类 (50)	
			Evaporator			
Water Volume:	18.0 gal					
Connection Hand:	Universal Connecti	ion - Facing out b	oack			
Connection Size:	6.0 in					
Insulation:	Single Layer Insula	tion to Suction a	t each Compress	or		
Entering Fluid	Leaving Fluid Temperature	Fluid Type	Fluid Flow	Fluid Flow Min / Max	Pressure Drop	Fouling Factor
Temperature					40.04	
54.00 °F	44.00°F	Water	466.6 gpm	187.2/ 780.2 gpm	10.9 ft H₂O	0.000100 *F.ft².h/Btu
-	44.00°F	Water	466.6 gpm Condenser	187.2/ 780.2 gpm	10.9 ft H₂O	
-	44.00°F MicroChannel	Water		187.2/ 780.2 gpm	10.9 ft H₂O	
54.00 °F	1986	re.com	Condenser	187.2/ 780.2 gpm	10.9 ft H₂0	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
54.00 °F Coil Fins:	MicroChannel	re.com	Condenser	187.2/ 780.2 gpm Nominal Fan Mo Horsepower	otor Minim	5 1 10 03 5 1 C 10 C C

Job Number:72WHA1PagePrepared Date:10/24/2017Job Name:Air Cooled Budget13 of 30www.DaikinApplied.com

Technical Data Sheet for 195 Tons High Eff

					Design					
在 经国	Capacity		Inpu	t Power		Efficien	cy (EER)		IPLV.IP* (EER	
	195.3 ton		230	0.7 kW		10.16	Stu/W.h		17.02 Btu/W	.h
83			Per	formance Poir	nts rated at AHF	li Ambient Re	elief			STANS.
		Unit			DESCRIPTION OF THE PARTY OF THE	Evap	orator		Conde	nser
Point #	% Load	Capacity ton	Input Power kW	Efficiency (EER) Btu/W.h	Fluid Flow gpm	Pressure Drop ft H ₂ O	Entering Fluid Temperature *F	Leaving Fluid Temperature °F	Ambient Air Temperature °F	Altitude ft
1	100.0	195.3	230.7	10.16	466.6	10.9	54.00	44.00	95.0	0.000
2	75.0	146.5	124.2	14.15	466.6	10.9	51.50	44.00	80.0	0.000
3	50.0	97.66	62.57	18.73	466.6	10.9	49.00	44.00	65.0	0.000
4	25.0	48.83	27.24	21.51	466.6	10.9	46.50	44.00	55.0	0.000

* IPLV reflects AHRI standard rating co	nditions and does not change with user define	d conditions
---	---	--------------

		100			Sound Pressu	re (at 30 feet)	ALTERNATION OF THE				EAST.
63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1 kHz dB	2 kHz dB	4 kHz dB	8 kHz dB	Overall dBA	75% Load dBA	50% Load dBA	25% Load dBA
70	71	70	67	66	62	62	58	71	70	68	67
				fin general	Sound	Power				AL ALLES	
63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1 kHz dB	2 kHz dB	4 kHz dB	8 kHz dB	Overall dBA	75% Load dBA	50% Load dBA	25% Load dBA
97	98	97	94	94	90	89	85	99	98	96	95

Octave band is non 'A' weighted and overall readings are 'A' weighted. Sound data rated in accordance with AHRI Standard-370.

Physical				
		Unit	Mel State State State State	
Length*	Height	Width*	Shipping Weight*	Operating Weight*
283 in	99 in	88 in	9229 lb	9379 lb

^{*}Shipping and Operating Weights include the below Option weights only and do not include the weights of any Accessories. Contact Chiller Applications for additional information.

			Option Weights	
E.	Louvers:	560 в	The second of th	1000
	Total:	560 lb		

Job Number: 72WHA1 **Prepared Date:** 10/24/2017 Page Job Name: Air Cooled Budget 14 of 30 www.DaikinApplied.com

Technical Data Sheet for 195 Tons High Eff

Electrical				
		Unit Electrical Data		
Voltage	Starter Type	Fan Motor Quantity	LRA Fan Motor (each)	FLA Fan Motors (each
46 <u>0</u> V / 60.0 Hz / 3 Ph	Across the Line	12	18A	3.6A
Power Connection Type:	High Short Circuit Currer	nt Rating with Single Point (Disconnect Switch and Circ	uit Protection
Short Circuit Current Rating:	65 kA			
		Single Point Power Connection		CONTRACTOR OF THE PARTY OF
MCA:	443.1 A			
Fuse Size (recommended):	500 A			
Fuse Size (maximum):	500 A			
Connector Wire Range:	(2) 3/0-500MCM			
		Compressor Electrical Data		
Compressor T	уре	Compressor Quantity		Starter Type
Scroll		6	Ac	ross the Line
MINISTER STATE OF THE PROPERTY	COST RULLI MENARCHI CHI SICONI MARRIADI MINISTERI PER	CONTRACT THE CONTRACT OF STREET, STREE	THE REPORT OF THE PROPERTY OF	

		Compre	essor Electrical Data			
Compressor Type		Com	pressor Quantity		Starter Typ	e XXXX
Scroll			6		Across the I	ine
Circuit #:		1	THE STREET WAS		2	
Compressor #:	1	3	5	2	4	6
RLA:	57.2 A	76 A	57.2 A	57.2 A	76 A	57.2 A
Inrush Current:	310 A	408 A	310 A	310 A	408 A	310 A

Note: Power wiring connections to the chiller may be done with either copper or aluminum wiring. Wire should be sized per NEC and/or local codes. Wire sizing and wire count must fit in the power connection lug sizing listed in latest installation manual. Please contact your local sales office for more information.

ptions	
	Basic Unit
Control Box Ambient:	High Ambient with Exhaust Fans (125ºF maximum)
Suction Shut-off Valve:	Included
	Control
Communication:	BACnet MS/TP
W	Electrical Electrical
Water Flow Indicator:	Thermal Dispersion Type

Wa		-	
VAV-2	-		411

Unit Startup Domest

Onit Startup Donnest

Standard Warranty: 1st Year Entire Unit Parts & Labor

Extended Compressor Warranty: Compressor Only; extended 4 years parts only

AHRI Certification



Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org

Accessories	
THE PARTY OF THE P	Optional Control of the Control of t
Part Number	Description
332320108	Spring Isolator Kit; AGZ: Packaged, Al Fin 190D, 190E/191E/210E/211E, 180E Dual Pmp

Job Number:72WHA1PagePrepared Date:10/24/2017Job Name:Air Cooled Budget15 of 30www.DaikinApplied.com

Technical Data Sheet for 195 Ton Screw

Job Information Job Name Air Cooled Budget Date 10/24/2017 Submitted By Michael Murray

Software Version 08.00

Unit Tag 195 Ton Screw



Unit Overview						
Model Number	Capacity ton	IPLV.IP* EER Btu/W.h	Voltage	Unit Starter Type	ASHRAE 90.1	LEED EA Credit 4
AWV014A	195.0	20.15	460 v / 60.0 Hz / 3 Ph	VFD	'07, '10, '13/'16	Pass

Technical Data Sheet

^{*} IPLV reflects AHRI standard rating conditions and may change with user defined conditions due to AWV product optimized configurability.

	Unit Type	SAVSUUS ORDUS DELL'ANNE		Platform		Unit Revision
Atu		reeser Chiller				00
Air-	Cooled Screw Comp			Packaged		00
	Head Pressure	THE RESERVE THE PARTY OF THE PA		CONTRACTOR OF THE PARTY OF THE PARTY.	Tubing	
Y	DC Fan Motors / All	I Fan VFD		With Suction	Shut-off Valves O	nıy
			Display			
		The section of the se	On Controller o			Charles Strokers
	Compressor				Conomizer	
	JFN				None	是自己的實際語
94. 104-	Refrigerant Typ	pe		Refr	igerant Weight	
	R134a			29	5 lb (per unit)	
84) 860	T. S. S. MA		Approval			
		ETL/	CETL, AHRI & ASH	IRAE 90.1		
			Evaporator			
Evaporator Model::	EV4027A1107				400000000000000000000000000000000000000	
Evaporator Model:: Water Volume:	EV4027A1107 66.1 gal					
MACHINE AND ADDRESS OF THE PARTY OF THE PART		nd				
Water Volume:	66.1 gal	nd			30 (15 A) 30 (15 A) 30 (15 A)	7.074 <u>4</u> 7.94.00
Connection Hand:	66.1 gal Grooved / Left Ha		or			
Water Volume: Connection Hand: Connection Size:	66.1 gal Grooved / Left Ha 6.0 in		or Fluid Flow	Fluid Flow Min / Max	Pressure Drop	Foulling Factor
Water Volume: Connection Hand: Connection Size: Insulation: Entering Fluid	66.1 gal Grooved / Left Ha 6.0 in Single Layer Insula Leaving Fluid	ation on Evaporat			Pressure Drop 10.8 ft H₂O	Fouling Factor 0.000100 *F.ft².h/Btu
Water Volume: Connection Hand: Connection Size: Insulation: Entering Fluid Temperature	66.1 gal Grooved / Left Ha 6.0 in Single Layer Insula Leaving Fluid Temperature	ation on Evaporat Fluid Type	Fluid Flow	Min / Max		0.000100
Water Volume: Connection Hand: Connection Size: Insulation: Entering Fluid Temperature	66.1 gal Grooved / Left Ha 6.0 in Single Layer Insula Leaving Fluid Temperature	ation on Evaporat Fluid Type	Fluid Flow 465.5 gpm	Min / Max		0.000100
Water Volume: Connection Hand: Connection Size: Insulation: Entering Fluid Temperature 54.00 °F	66.1 gal Grooved / Left Ha 6.0 in Single Layer Insula Leaving Fluid Temperature 44.00°F	ation on Evaporat Fluid Type	Fluid Flow 465.5 gpm	Min / Max		0.000100
Water Volume: Connection Hand: Connection Size: Insulation: Entering Fluid Temperature 54.00 °F	66.1 gal Grooved / Left Ha 6.0 in Single Layer Insula Leaving Fluid Temperature 44.00°F	ation on Evaporat Fluid Type Water	Fluid Flow 465.5 gpm Condenser	Min / Max		0.000100
Water Volume: Connection Hand: Connection Size: Insulation: Entering Fluid Temperature 54.00 °F Number of Fans: Coil Fins:	66.1 gal Grooved / Left Ha 6.0 in Single Layer Insula Leaving Fluid Temperature 44.00°F	ation on Evaporat Fluid Type Water	Fluid Flow 465.5 gpm Condenser	Min / Max	10.8 ft H₂O	0.000100

Job Number:72WHA1PagePrepared Date:10/24/2017Job Name:Air Cooled Budget23 of 30www.DaikinApplied.com

Technical Data Sheet for 195 Ton Screw

				Tall the			Design					
		apacity		A Parket	Input I	Power		Efficienc	y (EER)		IPLV.IP* (EER	
	19	95.0 ton			226.	4 kW		10.34 B	tu/W.h		20.15 Btu/W	.h
	3.30	HERM			Perfo	rmance Points	rated at AHR	l Ambient Re	lief		KE DI KENDO	NI PANTO
		35	Un	it			A FILE WAY	Evap	orator		Conde	nser
Point #	% Load	Capacity ton	Input Power kW	(EER) Btu/W.h	Economizer Status #1; #2	Compressor RPS #1; #2	Fluid Flow gpm	Pressure Drop ft H ₂ O	Entering Fluid Temperature *F	Leaving Fluid Temperature *F	Ambient Air Temperature °F	Altitude ft
1	100.0	195.0	226.4	10.34	N/A	75; 55	465.5	10.8	54.00	44.00	95.0	0.000
2	75.0	146.3	112.8	15.56	N/A	46; 36	465.5	10.8	51.50	44.00	80.0	0.000
3	50.0	97.50	51.90	22.54	N/A	30; 24	465.5	10.8	49.00	44.00	65.0	0.000
4	25.0	48.75	20.85	28.06	N/A	26	465.5	10.8	46.50	44.00	55.0	0.000

REST OF							The Street	NU.		Sound	Press	ure (at	30 fee	(t)	J. Carl	The same				Profession of the Parket		THE T	50515	
% Load			Hz lb		125 F	lz	2	50 Hz db		500 db			1 kHz db			kHz lb		4 kH			kHz db		Over dB/	STATE OF THE PARTY
100	(CSB)	7	7		74	Mark Law	C an visuality	71		70)		66		5	8		52			44		71	
75		7	6		72			68		65	146.2		61		5	4		49			42	控制	67	r
50		7	'3		69			61		60)	-	55		4	5		40			34	展器	61	
25		7	0		65			56		55	120		50		4	0		35			28		56	
			- 750	1	249E	55918		100	1038		Sound	Powe	er .	1000		TOLL			1115-11	06849	1	1000		198
% Load			Hz		125 F db	İŻ	2	50 Hz db		500 db	Vinterro Gallery 17		1 kHz db		2 k	Hz b		4 kH:			kHz db		Over	STREET, ST
100		1	04		101			98		97			93		8	5		79			72		98	
75		1	03		99			95		92	200		88		8	1		76		4	69		94	
50		1	00		96			88		87	7		82		7	2		67			61		88	
25		9	7		92			83		82	2		77		6	7		62			55	建寶	83	
	10:		No.	V., 5	沙雪	Walls	3/4		One-	third (Octave	Band	Sound	Powe	r	THE RE	PEAG	8823		STOR	PSON T	1	R R	
% Load	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kH
100	101	100	98	96	96	95	91	92	95	94	92	88	90	86	88	82	79	78	75	74	73	71	63	57
75	99	98	97	95	95	93	90	92	88	88	88	84	84	82	84	78	76	74	72	70	70	68	61	5
50 25	96 92	96 92	94 91	92 88	92 88	86 79	83 78	84 79	83 79	83 78	83 78	79 75	79 75	75 69	76 72	69 63	67 61	66	64 58	62 57	62 56	60 54	53 47	4

		Unit		
Length*	Helght	Width*	Shipping Weight*	Operating Weight*
296 in	100 in	88 in	15627 lb	16188 в

*Shipping and Operating Weights include the below Option weights only and do not include the weights of any Accessories. Contact Chiller Applications for additional information.

Option Weights

Louvers: 980 lb Total: 980 lb

Job Number: 72WHA1
Job Name: Air Cooled Budget

Page 24 of 30 Prepared Date:

10/24/2017

www.DaikinApplied.com

Technical Data Sheet for 195 Ton Screw

		Unit Electrical Data		
Voltage	Starter Type	Fan Motor Quantity	LRA Fan Motor (each)	FLA Fan Motors (each
46 <u>0</u> V / 60.0 Hz / 3 Ph	VFD	14	4A	2.6A
Power Connection Type: hort Circuit Current Rating: Drive Type(#1;#2): Phase Voltage:	65 kA CIMR-AU4A0208;CIMR-	nt Rating with Single Point I AU4A0208 oltage Protection with LED	Disconnect Switch and Circu	uit Protection
	Thase & Olidery Over Ve	Single Point Power Connection		
MCA:	375 A			
Fuse Size (recommended):	450 A			
Fuse Size (maximum):	500 A			
Connector Wire Range:	(2) 3/0-250MCM			
		Compressor Electrical Data		AND A PROPERTY OF
Compressor Ty	уре	Compressor Quantity		Starter Type
Screw		2		VFD
5 AM		Compi	ressor#	
		1		2
RLA:	. 1	.62 A	12	6 A
Inrush Current:	1	.62 A	12	6 A

Note: Power wiring connections to the chiller may be done with either copper or aluminum wiring. Wire should be sized per NEC and/or local codes. Wire sizing and wire count must fit in the power connection lug sizing listed in latest installation manual. Please contact your local sales office for more information.

Options	
THE WATER OF THE PARTY OF THE P	Control
Communication: BACnet MS/TP	
	Electrical
Water Flow Indicator: Thermal Dispersion Type	

Warranty

Unit Startup Domestic

Standard Warranty: 1st Year Entire Unit Parts & Labor

Extended Compressor Warranty: Compressor Only; extended 4 years parts only

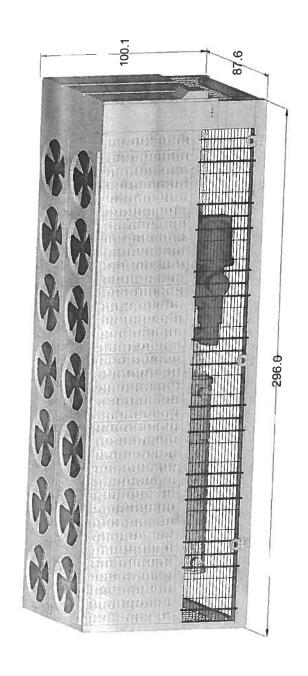
AHRI Certification



Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org

Accessories	
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Optional
Part Number	Description
332946408	Spring Isolator Kit; AWV: (8) 2 SPNG WHITE

Job Number:72WHA1PagePrepared Date:10/24/2017Job Name:Air Cooled Budget25 of 30www.DaikinApplied.com



NOTE: A water strainer must be installed at the inlet of the evaporator to protect it from damage. Please refer to the IOM for additional details.

Flounct Drawing	Unit lag: 195 Ion Screw	Ion screw		Sales Office:	sales Office: Inermosystems, Inc. (Unicago)	. (cnicago)	
Product:	Project Name:	Project Name: Air Cooled Budget	et	Sales Engineer:	er:		
Model: AWV014A	Oct. 24, 2017	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Scale: NTS Tolerance: +/- 0.25" Dwg Units: (in)	Dwg Units: (in)	MWW
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.	d in writing by Daikin	Applied. Purchase	er must determine t	hat the equipm	ent is fit and sufficient	for the job specificat	ions.

Prepared Date: 10/24/2017

www.DaikinApplied.com

Job Number: Job Name: 72WHA1 Air Cooled Budget Page 29 of 30

Air-Cooled Series R(TM)

Chicago Main Office (B87)Laura Michel Unit nominal tonnage Unit type Refrigeration capacity Shipping weight Operating weight Length Width Height A-weighted sound pressure A-weighted sound power	200 High efficiency 206.2 tons 14454.0 lb 14721.0 lb 268.000 in 89.000 in 93.000 ln 70 dBA 98 dBA
Unit type Refrigeration capacity Shipping weight Operating weight Length Width Height A-weighted sound pressure A-weighted sound power	High efficiency 206.2 tons 14454.0 lb 14721.0 lb 268.000 in 89.000 ln 93.000 ln 70 dBA 98 dBA
Shipping weight Operating weight Length Width Height A-weighted sound pressure A-weighted sound power	206.2 tons 14454.0 lb 14721.0 lb 268.000 in 89.000 in 93.000 in 70 dBA 98 dBA
Shipping weight Operating weight Length Width Height A-weighted sound pressure A-weighted sound power	14454.0 lb 14721.0 lb 268.000 in 89.000 in 93.000 ln 70 dBA 98 dBA
Operating weight Length Width Height A-weighted sound pressure A-weighted sound power	14721.0 lb 268.000 in 89.000 in 93.000 ln 70 dBA 98 dBA
Operating weight Length Width Height A-weighted sound pressure A-weighted sound power	14721.0 lb 268.000 in 89.000 in 93.000 ln 70 dBA 98 dBA
Operating weight Length Width Height A-weighted sound pressure A-weighted sound power	14721.0 lb 268.000 in 89.000 in 93.000 ln 70 dBA 98 dBA
Length Width Height A-weighted sound pressure A-weighted sound power	268.000 in 89.000 in 93.000 in 70 dBA 98 dBA
Width Height A-weighted sound pressure A-weighted sound power	89.000 in 93.000 in 70 dBA 98 dBA
Height A-weighted sound pressure A-weighted sound power Evap fluid type	93.000 In 70 dBA 98 dBA Water
A-weighted sound pressure A-weighted sound power Evap fluid type	70 dBA 98 dBA Water
A-weighted sound power Evap fluid type	98 dBA
Evap fluid type	Water
•	
•	
•	
Evap fluid concentration	
	0.00 %
Evap fluid freeze point	32.00 F
Min flow evap	217.0 gpm
Fluid pressure drop min flow	3.79 ft H2O
evap	
Max flow evap	796.0 gpm
ı	
Fluid pressure drop max	41.1 ft H2O
flow evap	
Saturated evap temp - ckt 1	40.5 F
Saturated evap temp - ckt 2	41.4 F
Cond ambient range	Standard ambient
Saturated cond temp - ckt 1	129.8 F
Saturated cond temp - ckt 2	130.3 F
Cond fan/motor config	Low noise fans
	Fluid pressure drop max flow evap Saturated evap temp - ckt 1 Saturated evap temp - ckt 2 Cond ambient range Saturated cond temp - ckt 1 Saturated cond temp - ckt 2

Unit voltage	460.0v/60.0hz/3ph	LRA - compressor A	346.00 A
Total power	235.4 kW	LRA - compressor B	346.00 A
Compressor power	214.7 kW	LRA - compressor C	
Fan power	20.36 kW	LRA - compressor D	
Number of condenser fans	14.00 Each	Incoming power line connection	Single point
Compressor starter type	Wye-delta	Single point power MCA	410.00 A

10/16/2017

TOPSS version numt 205

Data generation date

10/16/2017

Air-Cooled Series R(TM)

Job Information



Elara - SD 122 Harnew ES Chicago Main Office (B87)Laura Michel

TagCH-1Unit nominal tonnage200Model NumberRTAC2004Unit typeHigh efficiencyQuantity1Refrigeration capacity206.2 tonsTOPSS version number205

TOPSS version number 2.70 A Single point power MOP 500.00 A RLA - condenser fan (each) Dual point power MCA - ckt 1 RLA - compressor A 162.00 A Dual point power MCA - ckt 2 162.00 A RLA - compressor B Dual point power MOP - ckt 1 RLA - compressor C Dual point power MOP - ckt 2 RLA - compressor D 5000.00 A Short circuit current rating Short circuit Default

This unit complies with the efficiency requirements of all versions of ASHRAE Standard 90.1 and CANS/CSA C743.

Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.



Information for LEED Projects

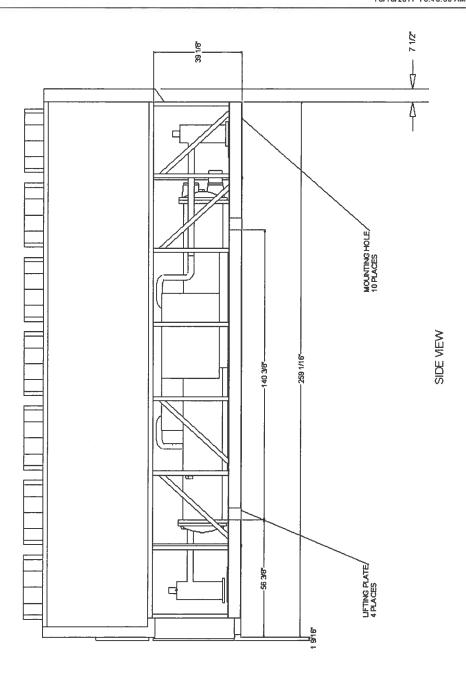
ASHRAE 90.1/CSA compliance	All versions to 2016	IPLV.IP	14.29 EER
Refrig (HFC-134a) - ckt 1	225.0 lb	Rated refrigeration capacity	206.2 tons
		(AHRI)	
Refrig (HFC-134a) - ckt 2	225.0 lb	Rated cooling efficiency	10.51 EER
		(AHRI)	

Note:

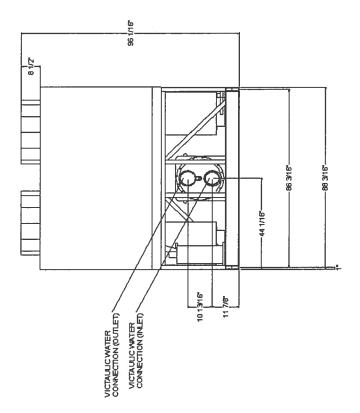
This product meets the minimum efficiency requirements of ASHRAE Standard 90.1 and CANS/CSA C743 for all versions (which are based on AHRI standard rating conditions) and, therefore, also meets the LEED "Minimum Energy Performance" prerequisite in the Energy and Atmosphere section.

The LEED Green Building Rating System™, developed by the U.S. Green Building Council, provides independent, third-party verification that a building project meets green building and performance measures.





Note Add 2" (51mm) to overall width for lowered panels and call protection.



Summary Performance Report For Option 1: 30RB - 210 Tons

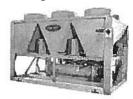
Project: 17353 Steve Maze Prepared By: Danny Paice

10/26/2017 02:41PM





30RB with Greenspeed®Intelligence



Unit Information

Option 1: 30RB - 210 Tons Tag Name: Model Number: Quantity: Manufacturing Source: Charlotte, NC USA ASHRAE 90.1: 2013/2016, 2010, 2007 Refrigerant: Independent Refrigerant Circuits: Shipping Weight: 12056 lb **Operating Weight:** 12772 lb Unit Length: 283 in Unit Width: 89 in Unit Height: .90 in Chiller Pressure Drop: 11.5 ft H2O

Evaporator Information

Fluid Type:	Fresh Water	
Fouling Factor:	0.000100	(hr-sqft-F)/BTU
Leaving Temperature:	44.00	°F
Entering Temperature:	53.99	°F
Fluid Flow:	468.0	gpm

Condenser Information

Altitude:	0.000	ft
Number of Fans:	12	
Total Condenser Fan Air Flow:	148,800	CFM
Entering Air Temperature:	95.0	°F

Integrated Pump Information

No Pump Selected

Performance Information

Cooling Capacity:	195.5	Tons
Total Compressor Power:	208.3	kW
Total Fan Motor Power:	30.96	kW
Total Unit Power (without pump):	239.3	kW
Efficiency (without pump) (EER):	9.803	BTU/Wh
IPLV:.IP:	16.31	BTU/Wh
IPLV:.IP:	10.31	DIO/VVI

Accessories and Installed Options

Freeze Protection
Suction Line Insulation
Suction Service Valves
Non-Fused Disconnect
Micro Channel
Ultra Low Sound Option
Single Point
BACnet Translator Control
Coil Trim Panels, Grilles, Upper Hail Guards
Greenspeed Intelligence: High-Efficiency Variable Condenser

Electrical Information

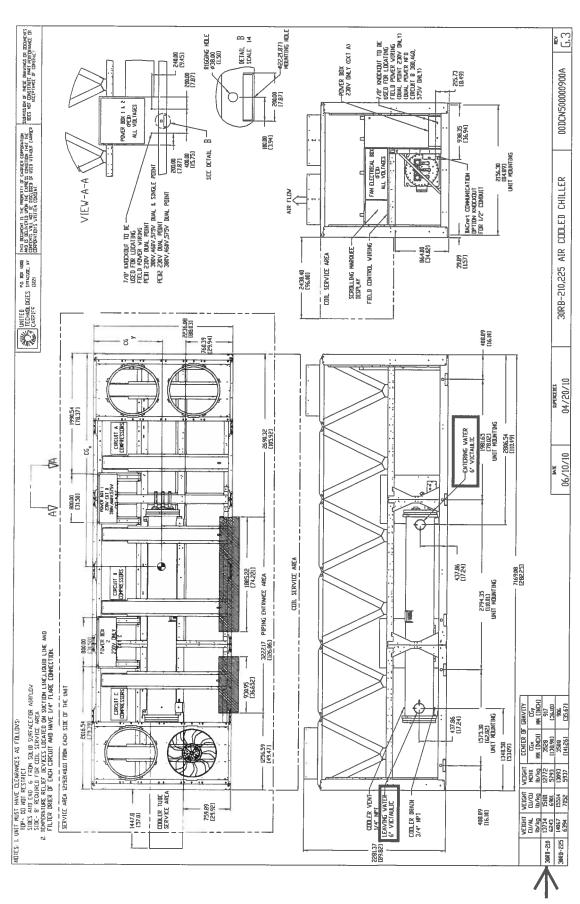
Unit Voltage:	460-3-60	V-Ph-Hz
Connection Type:	Single Point	
Minimum Voltage:	414	Volts
Maximum Voltage:	506	Volts

	Electrical	Electrical
Amps	Circuit 1	Circuit 2
MCA	422.9	
MOCP	450.0	
ICF	630.9	
Rec Fuse Size	450.0	

An uncoated Novation condenser coil was selected for this product. This is based on an installed location with postal code 60654 and a non-corrosive localized environment.

Certified Drawing for Option 1: 30RB - 210 Tons

Project: 17353 Steve Maze Prepared By: Danny Paice



Packaged Chiller Builder NACO 3.49z

Detailed Performance Summary For Option 2: 30XV - Std Tier - 200 Tons

Project: 17353 Steve Maze Prepared By: Danny Paice

10/26/2017 02:41PM

Unit Information

Condenser Type: Air Compressor Type: VFI	XV200S Cooled Screw	ons
	60-3-60	V-Ph-Hz
Quantity:	1	
Manufacturing Source: Charlotte, I	NC USA	
ASHRAE 90.1: 2013/2016, 201	10, 2007	
Refrigerant:	R-134a	
Minimum Capacity:	15.00	%
Shipping Weight:	13250	lb
Operating Weight:	13476	lb
Unit Length:	255	in
Unit Width:	88	in
Unit Height:	99	in
Minimum Outdoor Operating Temp:	-20.0	°F
Chiller Pressure Drop:	20.5	ft H2O

Performance Information

Cooling Capacity:	195.2	Tons
Total Compressor Power:	212.5	kW
Total Fan Motor Power:	13.60	kW
Total Unit Power (without pump):	229.8	kW
Efficiency (without pump) (EER):	10.19	BTU/Wh

Evaporator Information

Fluid Type:	Fresh Wate	r
Fouling Factor:	0.00010	0 (hr-sqft-F)/BTU
Leaving Temperature:	44.0	
Entering Temperature:	53.9	3°F
Fluid Flow:	468.	gpm gpm
Fluid Flow Min:	236.	4 gpm
Fluid Flow Max:	945.0	6 gpm

Condenser Information

Attitude:	0.000	ft
Number of Fans:	10	
Total Condenser Fan Air Flow:	145,000	CFM
Entering Air Temperature:	95.0	°F

Integrated Pump Information

No Pump Selected

Accessories and Installed Options

Isolation Valve(s)
Suction Line Insulation
Control Transformer
Non-Fused Disconnect
Flooded Evaporator, 2 pass, with heater
Low Sound Kit
Variable Speed Condenser Fans
BACnet / Modbus Translator
Coil Trim Panels + Security Grills (Sides) + Hail Guards (End)
Low Ambient Head Pressure Control
Standard Tier

Electrical Information

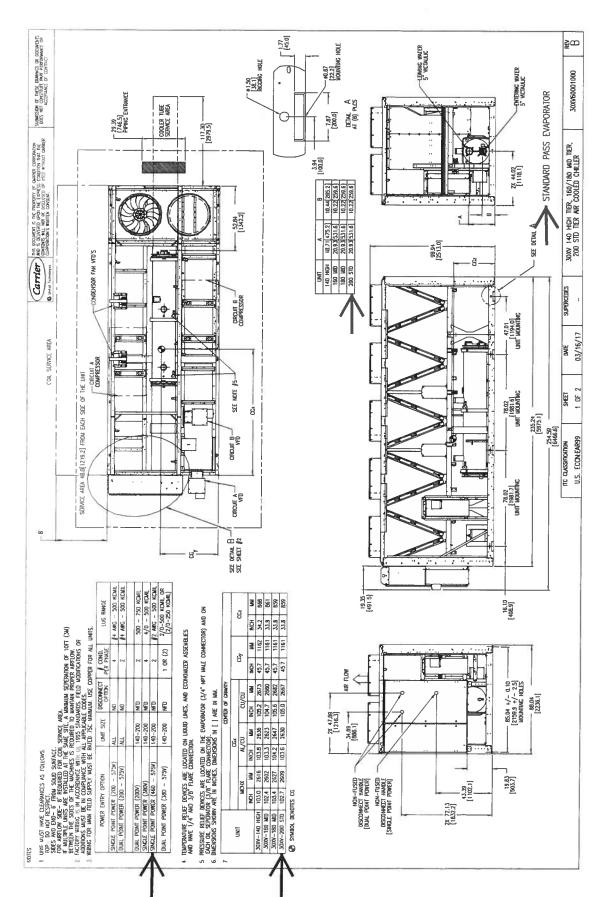
Unit Voltage:	460-3-60	V-Ph-Hz
Connection Type:	Single Point	
Minimum Voltage:	414	Volts
Maximum Voltage:	506	Volts

Amps	Electrical Circuit 1	Electrical Circuit 2
MCA	408.9	
MOCP	500.0	
Rec Fuse Size	450.0	

Certified Drawing for Option 2: 30XV - Std Tier - 200 Tons

10/26/2017 02:41PM

Project: 17353 Steve Maze Prepared By: Danny Paice



Summary Performance Report For Option 3: 30XV - Mid Tier - 200 Tons

Project: 17353 Steve Maze Prepared By: Danny Paice 10/26/2017 02:41PM





AquaForce™ Air-Cooled Variable Speed Screw Chiller



Unit Information

Tag Name: Option 3: 30XV - Mid Tier - 200 Tons Model Number: 30XV200M Quantity: Manufacturing Source: Charlotte, NC USA ASHRAE 90.1: 2013/2016, 2010, 2007 Refrigerant: Independent Refrigerant Circuits: Shipping Weight: 14400 lb Operating Weight: 14656 lb Unit Length: 302 in Unit Width: 88 in 99 in Unit Height: Chiller Pressure Drop: 15.7 ft H2O

Evaporator Information

Fluid Type:	Fresh Water	
Fouling Factor:	0.000100	(hr-sqft-F)/BTU
Longing Temperature:	44.00	°F
Entering Temperature:	54.14	°F
Fluid Flow:	468.0	gpm

Condenser Information

Altitude:	0.000	ft
Number of Fans:	12	
Tallal Condenser Fan Air Flow:	174,000	CFM
Entrung Air Temperature:	95.0	°F

Intentified Pump Information

No Pump Selected

Performance Information

Cooling Capacity:	198.5	Tons
Total Compressor Power:	205.8	kW
I an Motor Power:	12.81	kW
1 Unit Power (without pump):	222.2	kW
Floring (without pump) (EER):	10.72	BTU/Wh
IP.	20.01	BTU/Wh

Accessories and Installed Options

Isolation Valve(s)
Suction Line Insulation
Control Transformer
Non-Fused Disconnect
Flooded Evaporator, 2 pass, with heater
Low Sound Kit
BACnet / Modbus Translator
Coil Trim Panels + Security Grills (Sides) + Hail Guards (End)
Low Ambient Head Pressure Control
Medium Tier

Electrical Information

Unit Voltage:	460-3-60	V-Ph-Hz
Connection Type:	Single Point	
Minimum Voltage:	414	Volts
Maximum Voltage:	506	Volts

	Electrical	Electrical
Amps	Circuit 1	Circuit 2
MCA	390.1	
MOCP	500.0	
Rec Fuse Size	450.0	

An uncoaled Novation condenser coil was selected for this product. This is based on an installed location with postal code 60654 and a non-corrosive localized environment.

for Option 3: 30XV - Mid Tier - 200 Tons

NE .:

-roject; 17353 Steve Maze Prepared By: Danny Paice

