Rockford Public Schools – Edgerton Trails Elementary School Technology

Technology Request for Bid



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DIVISION 00 – BIDDING & CONTRACT REQUIREMENTS

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DIVISION 27 – TECHNOLOGY SYSTEMS

<u>Section</u>	Description
27 41 16	Multimedia Systems

END OF SECTION

SECTION 00 01 15 LIST OF DRAWINGS

File/Name Description

Section

Section 27 41 16 – Multimedia System - Drawings

APPENDIX:

T0.01 – Classroom Audio Visual System Riser Diagram

NOTE:

Other coordination drawings may be obtained from the Owner's Construction Manager or may be reviewed on site at the field office at the worksite. Such drawings may include electrical plans, reflected ceiling plans or other plans as may be updated due to issuance of bulletins or field changes.

END OF SECTION

LIST OF DRAWINGS 00 01 15 - 2

SECTION 00 11 16 INVITATION TO BID

PART 1 - GENERAL

1.01 WORK INCLUDED: EDGERTON TRAILS ELEMENTARY SCHOOL TECHNOLOGY

- A. Rockford Public Schools (Owner) is seeking bids for purchase and installation of new classroom multimedia, associated equipment and installation.
 Proposed systems shall be configured and installed as described herein.
- B. Project: Edgerton Trails Elementary School Technology
- C. Owner: Rockford Public Schools 350 North Main Rockford, MI 49341
- D. Designer: Communications by Design, Inc.
- E. Sites of Work:
 - Edgerton Trails Elementary School (12 Mile and Edgerton) Rockford MI, 49341

1.02 GENERAL DESCRIPTION OF PROJECT SEQUENCE

- A. Sequences and dates specified herein are for information only and indicate the plan and intent of the Owner. Actual dates shall be established based on final award of project.
- B. Sequence of operations shall be established by the Contractor within the guidelines established by the Owner as required to meet schedules.
- C. Schedule:
 - 1. Request for Bid Distributed: September 28, 2023
 - 2. Pre-Bid Meeting: October 3, 2023 at 10:00AM
 - 3. Intent to Bids Due: October 9, 2023 at 5:00PM
 - 4. Question and Clarification Deadline: October 11, 2023 at 5:00PM
 - 5. Public Bids Due: October 19, 2023 at 3:00PM
 - 6. Post Bid Review: October 23, 2023

1.03 TYPES OF BIDS

A. Bids shall be submitted in total and with required detail for each item bid and as is required herein and include all portions of the work identified for the individual bid package as specified herein. Bids shall be made on unaltered bid forms as included herein. Bidder shall fill in all blank spaces and the bid shall be signed by a legal officer or agent authorized to bind the bidder to a contract.

1.04 PRE-BID CONFERENCE

- A. A pre-bid conference will be held. A discussion of the project and review of bid documents will be followed by a site review and an opportunity to ask questions. Attendance is <u>highly encouraged</u> for all contractors interested in bidding on any components or portions of this project. Attendance at the pre-bid conference will be a factor considered during evaluation of bids.
- B. Time: October 3, 2023 at 10:00AM
- C. Location: Edgerton Trails Elementary School (12 Mile & Edgerton) Rockford, MI 49341

1. Any drawings identified in the table of contents herein will be reviewed at this conference.

D. Physical building inspections of sites of work will be provided for at this time.

1.05 TIME AND PLACE OF BID RECEPTION

- A. Physically sealed bids for the base bid work will be received at the district office and read aloud at a public opening. Bids arriving after the appointed time as determined by the Owner's representative conducting the public opening, shall be returned unopened. Bids will be accepted beginning forty-eight (48) hours prior to the appointed opening time provided they are in sealed packages and addressed as specified herein.
- B. Bid Receipt Deadline: October 19, 2023 at 3:00PM
 C. Bid Opening Location: Rockford Public Schools Board Room 350 North Main Rockford, MI 49341
- D. Faxed or electronically delivered bids will not be accepted.
- 1.06 EXAMINATION AND PROCUREMENT OF DOCUMENTS

- A. Specifications and any relevant Drawings may be obtained from the Technology Designer. Contractors may obtain copies by documented request to Communications by Design, Attn: Rebecca Szilagy. Requests may be made by:
 - 1. Writing 4101 Sparks Drive Grand Rapids, Michigan 49546
 - 2. Email rszilagy@cbdconsulting.com

1.07 BID SECURITY

- A. Bid security equal to five percent (5%) of the total bid amount, must accompany each base bid in accordance with the Instruction to Bidders.
- B. Bid security shall be either a Bid Bond issued by a company licensed in the State of Michigan to furnish bid security or Certified Check made payable to the Owner.

1.08 OWNER'S RIGHT TO REJECT BIDS

- A. The Owner reserves the right to reject any and/or all bids. The Owner reserves the right to accept a bid, or portion thereof by issuance of a valid purchase order within ninety (90) calendar days following the bid opening. No bids may be withdrawn during this time without the specific approval of the Owner.
- B. Withdrawal of any Bids after the opening time without specific approval by Owner may result in forfeiture of required bid security by Bidder.

1.09 DEFINITIONS

- A. "Owner" is intended to mean Rockford Public Schools, a general powers school district.
- B. For purposes of this project, the terms "Architect", "Engineer" and "Designer" are used synonymously to refer to Communications by Design, Inc., a Michigan Corporation.
- C. The term "Bidder" refers to any organization properly and accurately submitting a complete "Intent to Bid Form" prior to the required time specified herein and subsequently properly submitting completed set of bid documents as specified herein.
- D. The term "Contractor" herein is a reference to the firm(s) eventually selected by the Owner to provide the intended system(s), or any portion thereof, and fulfill the terms of the contract.

- E. The term Contract is a reference to the collective set of documents, drawings, diagrams, Owner's Purchase Order, Addenda, and all other materials as provided for herein defining arrangement between Owner and Contractor.
- F. The term Addenda (or Addendum) are that portion of the Contract consisting of modifications, amendments, deletions, or substitutions to the contract documents issued prior to the execution of the Contract.

END OF SECTION

SECTION 00 40 00 BID FORMS

Intent to Bid Form

Complete and submit the following form if you have interest or intend to submit a Bid for this project. Unaltered and completed forms must be received on or before 5:00 PM on October 9, 2023. Only bidders returning a completed "Intent to Bid Form" will be notified of required addenda.

<u>Company Information</u> Name:	
Address Line1:	
Address Line2:	
City, State and Zip Code <u>Primary Contact</u> <u>Information</u> Name:	
Phone No.:	
Fax. No.:	
E-Mail Address:	

Portions of the bid for which you will be responding:

Section 27 41 16 - Multimedia Systems

<u>Submit unaltered and completed form to:</u> Rebecca Szilagy Communications by Design, Inc. <u>rszilagy@cbdconsulting.com</u>

SEALED BID LABEL

Separate, or fold over, the label on the line below, and affix to the exterior of sealed container so information is clearly visible for Bid Submission. Ensure label is attached in a manner to prevent accidental removal or defacement. Label shall serve as sole identification for sealed bid at submission.

BID TO:	Rockford Public Schools Attention: Mr. Michael Cuneo 350 North Main Rockford, MI 49341
BID FROM:	
PROJECT:	Edgerton Trails Elementary School Technology TECHNOLOGY BID #3021
INCLUDING ADDENDA:	Addendum NoDated Addendum NoDated

DUE: October 19, 2023 at 3:00PM

BID FORM

BID TO:	Rockford Public So Attention: Michael 350 North Main Rockford, MI 4934	chools Cuneo 1	
BID FROM:			
PROJECT:	Edgerton Trails Ele TECHNOLOGY B	ementary School Techno ID #3021	ology
The undersigned, I cost of work, and I and herein referen- propose to furnish for proper complet	having familiarized then having examined the sit ced, including, but not all labor, material, equ tion of each of the follo	nselves with all local co e and all applicable Bid imited to, all addenda is ipment, applicable taxes wing categories of this p	onditions affecting the ding Documents herein, asued thereto, hereby and services required project for the sum of:
Bid Category	Title		
<u>Coileans and and the second s</u>		Do	llars (\$).
<u>TAXES:</u> Bid sum includes a	all applicable taxes.		
ALLOWANCES Base bid includes	<u>:</u> all applicable allowanc	e cost(s) as set forth here	ein.
COST OF BOND Bid sum includes Payment Bond, ea	D <u>S:</u> cost of furnishing a Per ch in the amount of one	formance Bond and Lab hundred percent (100%	or and Material b) of the bid.
ACKNOWLEDG The following add execution is includ	EMENT OF ADDEN enda have been receive led in both base bid and	DA: d, are hereby acknowled l alternate bids herein.	lged, and their
Addendum No	Dated	Addendum No	Dated
Addendum No	Dated	Addendum No	Dated

BID FORMS 00 40 00 - 9

ALTERNATES:

Based bid amount may be increased or decreased in accordance with each of the following alternate bids as may be selected, following procedures stated herein. Voluntary Alternates shown below are identified and described in detail on appropriate attachment(s) as referenced herein.

Alternate A:	
Alternate B:	
Alternate C:	
Alternate D:	

PRINCIPAL SUBCONTRACTORS

As required herein, the following Subcontractors are proposed to be used for this project:

Legal Name:	Work Proposed
Legal Name:	Work Proposed
Legal Name:	Work Proposed

BID SECURITY:

Accompanying this Bid, as required herein, is a bid security in the form of Certified Check/Cashier's Check/Bidder's Bond in the amount of:

Dollars (\$_____), payable to the Owner, which it is agreed, shall be retained as liquidated damages, not as a penalty, by the Owner, if the undersigned fails to execute the Contract in conformity with the form of Contract incorporated and referenced herein and fails to furnish specified bonds within ten (10) days after date of issuance of a Letter of Intent to the undersigned.

If awarded the Contract, the undersigned agrees to commence work within ten (10) calendar days after date of issuance of a Purchase Order, which shall be considered as the notice to proceed, and agrees to complete the work in accordance with the schedule herein.

FAMILIAL DISCLOSURE:

Accompanying this Bid, as required herein, is a legally executed and notarized Michigan Familial Disclosure Statement.

EXCEPTIONS:

Bidder takes no exception to terms, conditions, specifications and/or any other requirements herein unless expressly noted, and specifically identified as provided for herein on unaltered Contract Exception form accompanying this Bid.

SIGNATORY AUTHORITY:

The undersigned certifies they are an authorized agent of the bidding entity, and legally able to bind the bidding entity to the terms, conditions and responsibilities of this, and all referenced bid documents. Furthermore, the undersigned acknowledges an understanding that non-compliance of this authority or any other bidding requirements may result in forfeiture of bid security, dismissal of consideration of bid submitted, and/or personal liability against the signatory.

AGREEMENT:

The undersigned agree(s) to provide the post-bid information required within ten (10) days after notification of a Letter of Intent and to execute an agreement for work covered by this Bid on the Owner's standard Purchase Order for which terms and conditions are expanded to include all Bidding Documents and subsequent addenda issued thereto.

In submitting this bid, it is understood that the Owner reserves the right to reject any or all bids. It is further agreed that this bid is binding for a period of Ninety (90) days from the opening thereof.

Resp	Respectfully submitted,			
Date:				
Firm Name:				
By:				
Signed:				
Title:				
Official Address:				
Telephone Number:				
Fax Number:				
Primary Contact Email Address:				
(If Corporation, affix Seal				

Michigan Familial Relationship Disclosure Statement

In accordance with Section 1267 of Michigan Revised School Code this sworn and notarized statement of an authorized representative, discloses any familial relationship between the owner and/or any employee of the Bidder, and any member of the project Owner's governing Board(s) or Superintendent(s).

If any conflict of interest is discovered subsequent to submission of bid, written disclosure shall be submitted to the project Owner within seven (7) days of discovery. The project Owner reserves the right to immediately terminate any contract with Bidder upon notification of a conflict of interest. Upon such termination, the project Owner shall compensate Bidder only for the value of any goods or services provided to the Owner prior to such termination as determined by Designer.

(Check only one Box Below)

It is hereby acknowledged and certified by Bidder that <u>no</u> familial relationship exists between the owner or any employee of the Bidder and any member of the project Owner's governing Board(s) or Superintendent(s).

A familial relationship exists between the owner or an employee of the Bidder and a member of the project Owner's governing Board(s) or Superintendent(s). The person(s) and the relationship(s) are as follows:

Bidder

Board or Superintendent

Bidder Authorized Representative:	
Bidder:	
Representative's Signature:	
Print or Type Name:	
Representative s little:	
	2022
Subscribed and sworn this day of	, 2023.
In the County of State of	
By	Seal or Stamp:
Notary Public Signature	-
My commission expires on	

BID FORMS 00 40 00 - 12

IRAN LINKED BUSINESS AFFIDAVIT

All Bids shall be accompanied by a sworn statement disclosing any Iran Linked Business relationship that exists within the owners, including its officers, directors, and employees.

The undersigned, owner or authorized officer of

(bidder), pursuant to Michigan Public Act No. 517 of 2012, the "Iran Linked Business" requirement provided in the Rockford Public Schools Proposals hereby represents and warrants that the bidder, including its officers, directors and employees, is not an "Iran Linked Business" within the meaning of the applicable Public Act, and that in the event bidder is awarded a contract as a result of this RFB, the bidder will not become an "Iran Linked Business" at any time during the course of performing under the contract. The bidder further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or 2 times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of the District investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on future Requests for Bids for three (3) years from the date that it is determined that the person has submitted the false certification.

There is not an "Iran Linked Business" that exists within the bidder and/or owner, officers, directors and employees.

Bidder:	Notary:
[Company Name]	This instrument was acknowledged before me, a Notary Public in and for
[Signature]	County, on this
[Title]	day of, 20
	[Notary Public Signature]
	My Commission expires:
	Acting in the County of:

REFERENCES

Customer name:			
Address:			
City/State/Zip:			
Contact name:			
Contact title:			
Phone:			
E-mail:			
Scope of project:			
Date of completion:			
1			
Customer name:			
Address:			
City/State/Zip:			
Contact name:			
Contact title:			
Phone:			
E-mail:			
Scope of project:			
Date of completion:			
_			
Customer name:			
Address:			
City/State/Zip:			
Contact name:			
Contact title:			
Phone:			
E-mail:	 		
Scope of project:			
Date of completion:	 		

CONTRACT EXCEPTIONS

Check one Box					
Bidder takes no exception to, and agrees to comply with all sections, terms, conditions and/or requirements of the Contract Documents.					
Bidder proposes the following exceptions to the Contract Documents:					
Paragraph Number		Explanation			
 	-				
 	-				
	-				
	_				
 	_				
 	-				
 	-				
 	-				
 	-				

<u>NOTE</u>: Exception(s) to any bid sections, terms, conditions and/or requirements deemed excessive for any reason by the Owner and/or Designer may result in disqualification of Bid.

SCHEDULE OF VALUES/BID FORM

(Bidder may submit version of only <u>this</u> form with slight variation. All information in this form is required for each division/category of work being bid. Submit a completed separate form for each division/category of work clearly delineating on the form the division/category of work for that form. Form submitted must materially match below both in content and format. Electronic version of this form for each project section/division/category being bid is required with bid package as <u>Microsoft Excel</u> compatible spreadsheet on a USB drive. Failure to provide appropriate and complete SCHEDULE OF VALUES for each division/category of work, as determined by the Owner and/or Designer, may result in disqualification of Bid.)

Bidder: _____

Bid Division:

					Unit Labor	Total Proposed
ID	Qty	Part Number	Mfg and Description	Unit Cost	Cost	Cost
			PROJECT MANAGEMENT			
			TRAINING			
			BONDS AND INSURANCE			
			GRAND TOTAL			
			(Must match base bid)			

END OF SECTION

BID FORMS 00 40 00 - 16

SECTION 00 21 13 INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.01 OWNERSHIP

A. Bidders prepare and provide bids without any cost to the Owner and/or Designer. Once opened, bids become the sole property of the Owner. Bidders have no claim to, or ownership of bids opened. Bids become subject to all legal statutes including, if applicable, United States and Michigan Freedom of Information Acts and related laws.

1.02 COMPLIANCE

- A. This document establishes the primary system(s) design configuration. The Bidder's bid response shall include all services, supplies, components, and equipment required to provide a complete turnkey system(s) which meets or exceeds all specifications for each given bid item being proposed.
- B. Owner prefers to enter into a contract with a single bidder for all materials for completion of this project but shall consider combinations of portions of bids from various bidders. The Owner reserves the right to award portions of the project to multiple bidders who will be required to cooperate with one another in order to complete the work.
- C. By their response, Bidders agree to comply with all sections, terms, conditions and/or requirements of the contract documents except as expressly noted, and specifically identified by paragraph number on the unaltered Contract Exceptions Bid Form. Exceptions to any bid sections, terms, conditions and/or requirements deemed excessive by the Owner and/or Bid Coordinator may disqualify Bid.
- D. In compliance with the Freedom of Information Act (FOIA), the Owner shall make bid documents available for public review after issuance of purchase order to the successful bidder/s.
- E. In connection with the execution of this Contract, Contractor and any Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, or national origin.
- F. Negligence in preparation, improper preparation, errors in, or omissions from Bids shall not relieve Bidder from fulfillment of any and all obligations and requirements of the Contract Documents.

- G. All Bid documents and worksheets must be completed in detail and submitted together on time.
- H. All documents constituting the entire present agreement shall be construed in accordance with and governed by the laws of the State of Michigan.
- I. Designer shall have authority for interpretation of Contract Documents. In the event terms, provisions or any other portion of the Contract Documents is/are in dispute, Designer shall have full and final authority to interpret the Contract Documents, and such interpretation shall be final and binding.
- J. In the event of a conflict between any terms or conditions in any of the documents comprising the entire present Agreement, the terms and conditions set forth in this document shall take precedence.

1.03 NOTICE AND RESPONSE

- A. Upon notification of Bidder being considered as a finalist, the Bidder shall provide to the Owner and Designer, within 48 hours, a current "Dunn and Bradstreet Supplier Evaluation Report" and other documentation as may be required of finalists herein and as requested by Owner and/or Bid Coordinator.
- B. Bidder shall provide timely response to all requests from Designer and/or Owner regarding clarification and/or elaboration concerning, but not limited to its Bid as may be deemed relevant by the Owner and/or Designer.

1.04 PROTECTION AND SAFETY

- A. Contractor shall continuously maintain adequate protection of all Work from damage and shall protect the Owner's property from injury or loss arising in connection with the execution of the Contract. Contractor shall make good any such damage, injury or loss, except such as may be directly caused by agents or employees of the Owner. The Contractor shall adequately protect adjacent property as required by law, by the Contract Documents, or as otherwise required, to cause no damage to them during the execution of the Contract. This requirement shall also apply to structures above and below ground as conditions of the site require.
- B. Contractor shall be solely responsible for, and have control over means, methods, techniques, sequences, and procedures for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the contract. Contractor shall take all necessary precautions for the safety of employees and visitors on the site of the Project and shall comply with applicable provisions of federal, state, and municipal safety laws and building codes to prevent accidents or injury to persons on, about, or adjacent to the premises where the Work is being performed. Contractor shall erect and properly maintain at all times, as required by the conditions and

progress of the Work, all necessary safeguards for the protection of workers and the community.

C. Contractor shall vigorously defend any and all suits that may be brought against the Owner by any person and/or entity, whether in the employ of the Contractor or not, for damage to property, and/or injury or death to persons alleged or claimed to have been caused by or through the performance of work.

1.05 DRAWINGS DIAGRAMS AND ILLUSTRATIONS

- A. Drawings, Diagrams, and Illustrations are diagrammatic in nature and indicate general arrangement and nature of systems and work included.
- B. Floor plan drawings are provided to assist the contractor in preparing documentation and reports as required herein.

PART 2 - MATERIALS

2.01 VOLUNTARY ALTERNATES AND SUBSTITUTION OF SPECIFIED PRODUCTS

- A. This Request for Bid describes a particular implementation. All Bids must provide pricing on the "base bid" as described herein. Voluntary alternatives providing comparable functionality with significant cost reduction and/or performance enhancement may be proposed. Voluntary alternatives are encouraged but must be identified as "Voluntary Alternates" and detailed on unaltered Bid Forms contained herein. Voluntary Alternates may be further detailed and/or explained in attachments to the unaltered Bid Forms contained herein. Exceptions to the Request for Bid specifications must be clearly noted and explained for each Voluntary Alternate proposed.
- B. No substitutions of specified products may be made without specific prior authorization by Designer and Owner. Individual bid divisions herein contain particular information related to acceptable manufacturer and product requirements.
- C. Trade-in, equipment/license exchanges or other return allowances may be provided as a voluntary alternate. Trade-in, exchange, or other return equipment allowances shall <u>not</u> be included in base bid amount.

PART 3 - EXECUTION

3.01 EXAMINATION OF DOCUMENTS AND SITE

A. Bidders shall carefully examine the Contract Documents and the construction site to obtain first-hand knowledge of existing conditions and requirements. No plea of ignorance of conditions that exist, or any other relevant matter

concerning work to be performed in the execution of work will be accepted as justification for failure to fulfill every detail of all requirements as described herein.

3.02 QUESTIONS, INTERPRETATIONS, AND ADDENDA

- A. Any bidder finding discrepancies between Drawings, Specifications, and/or Bid Documents, or be in doubt as to the exact meaning of any provision or detail shall notify the Designer at once, and before the deadline for Questions and Clarifications. The Designer may then, at their option, issue Addenda clarifying same. The Designer is not responsible for oral instructions, or Bidder's/Contractor's misinterpretations of Drawings, Specifications, and/or Bid Documents.
- B. The Designer reserves the right to issue Addenda at any time up to thirty-six (36) hours prior to the scheduled bid opening. All such addenda shall become, upon issuance, an inseparable part of the Specification/Contract Documents. Each bidder shall incorporate within their bid all costs for items listed in any/all Addenda and shall acknowledge receipt and identifying number of each Addendum on the Bid Form and on the outside of the sealed bid container.
- C. Addenda will be forwarded to each bidder who has received a copy of the Bidding Documents and has submitted "Intent to Bid Form".

3.03 BID SECURITY, BONDS, AND INSURANCE

- A. Bid Security, Performance and Payment Bonds are required on this project.
 - 1. Bid security equal to five percent (5%) of the bid amount must accompany each bid in accordance with the Instruction to Bidders.
 - a. Bid security shall be either a Bid Bond issued by a company licensed in the State of Michigan to furnish bid security or Certified Check made payable to the Owner.
- B. The selected Contractor will be required to provide a performance bond and a payment bond each in an amount equal to one hundred percent (100%) of the bid amount including any accepted alternates at the Owner's discretion.
 - 1. The surety of the performance bond shall remain in effect until all acceptances and final contract close-out requirements herein have been executed by the Owner.
- C. Contractor shall provide, prior to beginning any work at the sites, certificate of insurance for delivery to Owner indicating all required insurance coverage is in force.

- 1. Workers' Compensation and Employer's Liability Insurance
 - a. Coverage A Statutory
 - b. Coverage B \$1,000,000 Per Accident
- 2. Broad Form Comprehensive General Liability Insurance (including Premises, Elevators, Contractor's Protective Liability, Contractual, Products & Completed Operations – including Broad Form Extensions).
 - a. Each Occurrence \$1,000,000
 - b. General Aggregate \$2,000,000
 - c. Products & Completed Operation Aggregate \$2,000,000
 - d. Personal Injury & Advertising Injury \$1,000,000
 - e. Fire Legal \$100,000
- 3. Sub-contractors Operations, Products Completed Operations and Contractual Liabilities, plus such excess coverage as may be appropriate for the limits listed.
- 4. Comprehensive Automobile Liability Insurance (owned, hired, and non-owned automobiles).
 - a. Bodily \$1,000,000 each Person and \$1,000,000 each Occurrence
 - b. Property Damage \$1,000,000
- 5. Furnish Owner with Contingent Liability Insurance Policy with coverage and liability limits the same as for Public Liability Insurance specified herein. Designate on policy as assured, only the Owner.
- 6. Furnish Owner with Contingent Property Damage Insurance Policy with coverage and liability limits the same as for Property Damage specified herein. Designate on policy as assured, only the Owner.
- 7. Policies shall include notification clause requiring ninety (90) days written notice to Owner in the event of policy cancellation, expiration, non-renewal, coverage reduction or other material change.
- 8. Contractor shall not commence work under the Contract until after all insurance required herein has been obtained and certificates for such are approved by Owner.
- D. All such bonds and/or insurance shall be issued by surety licensed by the State of Michigan and acceptable to the Owner.

- 1. Insurance certificate(s) shall be signed by insurance agent licensed in the state of Michigan or a representative of the insurance company.
- E. Contractor agrees to indemnify and hold harmless the Owner and Designer, including their agents and employees, from and against all claims, damages, losses and expenses, including, but not limited to, attorney fees arising out of, or resulting from the performance of the work to the fullest extent allowed by law on a comparison basis of fault.

3.04 MODIFICATION AND WITHDRAWL

- A. Bids may be withdrawn and/or changed any time prior to the deadline for submission of bids. Bids may not be withdrawn or changed thereafter and shall be deemed a form offer continuing for ninety (90) calendar days. Bids receive after the deadline for submission will be returned unopened at the Owner's discretion.
- B. Withdrawal of any Bid after the opening time without specific approval by Owner may result in forfeiture of required bid security by Bidder.

3.05 CODES, ORDINANCES, REGULATIONS AND RELATED

- A. All labor and materials shall be furnished and installed in strict accordance with the latest applicable codes, ordinances and regulations of any governing body having jurisdiction over this project.
- B. In the event the quality of labor and materials required by the Drawings and Specifications herein exceeds requirements of current applicable codes, ordinances and regulations, the Drawings and Specifications shall take precedence.
- C. In the event the quality of labor and materials required by current applicable codes, ordinances and regulations having jurisdiction over this project exceeds that of the Drawings and Specifications herein, the applicable codes, ordinances and regulations shall take precedence.
- D. The Contractor shall give all notices and comply with all codes, laws, ordinances, rules, and regulations of any authority having jurisdiction, which bears on the performance of its work. This compliance includes, but is not limited to, the Michigan School Safety Initiative (PA129, PA130, PA131 and PA138) if applicable to work being performed.
- E. The Contractor shall pay for all licenses, permits, taxes, and fees required for this project; and shall comply with all federal, state, local and Owner's codes, laws, ordinances, regulations and other requirements applicable to the work specified at no additional cost to the Owner. Contractor shall submit copies of all approved certificates and approvals to the Owner upon receipt.

3.06 SUB-CONTRACTOR AND MATERIAL SUPPLIER

- A. The successful Bidder shall submit to the Owner and Designer a complete list of all sub-contractors and all material suppliers proposed to engage on the work. Sub-contracts shall not be awarded until after they have been approved by the Designer and Owner.
- B. Finalist bidders may be required to submit additional details related to subcontractors and suppliers within forty-eight (48) hours after the bid opening.
- C. Names of any principal sub-contractors must be listed on the Bid Form.
- D. All contracts made by the successful Bidder with Subcontractors shall be covered by the terms and conditions herein. The successful Bidder shall see to it that Subcontractors are fully informed in regard to these terms and conditions and shall bind all subcontractors to the same terms and conditions. Failure to do so will absolve the Owner from any liability for additional cost due to subcontractor claims for additional cost, time, or any claim(s) for additional cost by subcontractor(s).

3.07 BID RESPONSE FORMAT

- A. Bidder shall provide complete Bid copies in two formats as described herein.
 - 1. One (1) Hard copy format responses shall be in a bound tabulated format. Each response shall have tab indicators for each section.
 - 2. One (1) Electronic copy format responses shall be submitted on a USB Drive, readable by a standard Microsoft Windows 11 workstation. Electronic media shall contain separate folders to organize response documentation as described herein. Files submitted electronically shall be *Adobe Acrobat* "PDF" format (<u>SCHEDULE OF VALUES</u> is additionally required to be on the disk in the appropriate folder as a Microsoft Excel compatible spreadsheet and as described herein).
- B. All Bid Response formats shall be clearly externally marked to include, but not be limited to:
 - 1. Bidder identification.
 - 2. Project Owner identification.
 - 3. Project name.
 - 4. Bid submission date.

- C. Bid Responses shall include an index containing copies/PDF of a complete index of documents comprising Bid Response. Responses shall include, but not be limited to the following tabbed/folder sections:
 - 1. Section 1 Forms, which shall contain copies/PDF files of all required and completed bid forms.
 - a. BID FORM
 - b. Michigan Familial Relationship Disclosure Statement
 - c. **REFERENCES**
 - d. CONTRACT EXCEPTIONS
 - e. SCHEDULE(s) OF VALUES
 - f. BID BOND
 - 2. Section 2 Overview, which shall contain copies/PDF files of cover letter and/or executive overview.
 - 3. Section 3 Submittals, which shall contain copies/PDF files of all required and voluntary submittals.
 - 4. Section 4 Appendices, which shall contain copies/PDF files of other reference materials Bidder wishes to or is required to submit.

3.08 AWARD OF CONTRACT

- A. The material proposed to be used for the completion of work, and the competency, solvency and responsibility of bidders will receive due consideration before award of contract. In the reception of bids for this work, the Owner incurs no obligation to accept the lowest, or any bid submitted. The right to accept or reject any and all bids or portion thereof is reserved by the Owner. The Owner reserves the right to require testimonial, accounting or legal documents pertaining to the solvency of a Contractor, or any other decision factor the Owner deems appropriate, prior to award of contract.
- B. Owner reserves the right to select individual components from schedule of values independent of installation as may be determined in Owners best interest. Selected bidder may be required to install selected components provided by others.
- C. Issuance of a Purchase Order by Owner in response to a valid bid shall be a Notice to Proceed, and shall become part of, but not limited to, all terms, conditions, and requirements herein. Notice to Proceed shall have the full effect of contract award, and shall make all terms, conditions, requirements,

and responsibilities of Bidder binding upon issuance. Notice to Proceed, once issued, shall become an inseparable part of the contract documents herein, and constitute both Bidder and Owner's acceptance of contract.

3.09 TIME, SCHEDULES, PROJECT MANAGEMENT, MEETINGS AND PLANS

- A. Time is of the essence on this project. Award of contracts for this project will be contingent on the bidder's agreement to complete the work on or before the contract completion date stated herein.
- B. All Contractors will commence work in such a manner and at such a time as to expeditiously interface with the work of other Contractors and will pursue the project diligently to completion. All Contractors will work in a cooperative manner with Owner and other Contractors.
- C. Contractor shall appoint an overall Project Manager acceptable to Owner, with skills and experience deemed appropriate by the Owner for the scope and size of the project. Project Manager shall be responsible for the scheduling of all Contractor resources and attending all project meetings. Upon notification of Bidder being considered a finalist, the Bidder shall submit professional resume of proposed Project Manager within forty-eight (48) hours.
 - 1. Project meetings shall be conducted at Owner's selected and identified location weekly and at Owner's and/or Designer's discretion.
 - 2. Within five (5) days of Notice to Proceed (issuance of a Purchase Order by the Owner), Contractor's Project Manager shall provide to the Owner a critical flow path in the form of a "Gantt Chart" (or equivalent) indicating the proposed sequence of events and approximate beginning and completion dates in accordance with, compliance to, and coordinated with requirements herein.
 - 3. Changes of the Project Manager during the project shall not be acceptable without prior written approval from the Owner.
 - 4. It is the responsibility of the Contractor's Project Manager to schedule work, work out issues, ensure that all required products and services are delivered according to schedule and attend to any other matters required by the Owner in the interest of professional and timely completion of the project.
 - 5. The appointed Project Manager, or a designee acceptable to the Owner, shall be in attendance of all project meetings throughout the term of the project. Failure to do so may be considered a material breach of contract.
 - 6. After a ten (10) business day notice, the Owner reserves the right to request a new Project Manager, when it appears that, in the Owner's sole

discretion, the Project Manager is not fulfilling the full responsibilities of the position. Failure by Contractor to provide adequate Project Manager meeting requirements of the Owner, may result in Contract termination.

3.10 CHANGES IN THE WORK

- A. No changes in work with the effect of either increasing or decreasing in the project value shall be made without specific and prior authorization by the Owner and Designer.
- B. Owner, without invalidating the contract and without notice to any surety, may at any time order extra work or make changes by altering, adding to or deducting from the work, the Contract Sum being adjusted accordingly. All such work shall be authorized by a written Change Order approved by Owner and Contract Designer. Upon receipt of such an order Contractor shall promptly proceed with the work involved. All such work shall be executed under the conditions of the original Contract. Owner authorized change order(s) may be issued at any time prior to Contract close out.
- C. When so directed, Contractor shall promptly submit an itemized estimate and a unit price for performing or deleting such extra or changed work as may be contemplated. Any extensions or reductions of the contract time associated with extra or changed work shall be identified at the time Contractor submits such documentation.
- D. At the Owner's discretion, adjustments in the Contract Sum shall be determined by one or more of the following methods:
 - 1. By mutual acceptance of a lump sum cost, including overhead and profit, itemized and supported by sufficient substantiating data to permit evaluation.
 - 2. By unit prices stated in the Contract Documents including, but not limited to, Schedule of Values.
 - 3. By unit prices mutually agreed upon.

3.11 PAYMENT REQUESTS AND PAYMENTS

- A. Contractor's invoices shall be submitted monthly in correlation with the Project Schedule indicating percentage of work completed.
- B. All contract and change order invoices shall be sent directly to Contract Designer.
- C. A 10% retainage shall be held back on all payment requests, including, but not limited to hardware, software, change orders and services, until final

completion and close out of the project or project phase as determined by Owner and Designer.

- D. Contractors are required to submit all invoices on approved AIA Payment Request Forms or other billing format pre-approved by Contract Designer. Each AIA Payment Request Form shall be accompanied by a properly completed, executed, and notarized Waiver of Lien which shall be in a format and contain verbiage approved by Owner.
- E. The Contract Designer and Owner shall process payment requests on a monthly schedule and in accordance with their respective established processes and procedures. Payments will be made by the Owner based only on AIA Request Forms having been previously certified, audited and approved by Contract Designer and accompanied by acceptable Waiver of Lien.

END OF SECTION

SECTION 00 65 00 CONTRACT CLOSE OUT

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. Provide an orderly and efficient transfer of the completed work to Owner.
- B. Details affecting work of this Section includes but is not limited to all other Sections herein and all related Contract Documents.
- C. Activities relative to Contract close-out are described in, but not limited to, this and other Sections of this document.

1.02 SUBSTANTIAL COMPLETION

- A. "Substantial Completion" shall be defined as:
 - 1. All responsibilities of Contractor for all provisions and requirements of all divisions and sections of complete Contract herein, and as amended, are properly and fully completed, or properly, accurately and acceptably provisioned for.
 - 2. All systems, equipment, facilities, services, programming and/or components required by all divisions and sections of complete Contract are fully operational, acceptable, and useful to the Owner for their intended purposes.
- B. Prior to requesting inspection by Designer to certify Substantial Completion, Contractor shall use adequate means to assure the Work is completed in accordance with the specified requirements and is ready for such inspection.

PART 2 - MATERIALS

2.01 NOT USED FOR THIS SECTION

PART 3 - EXECUTION

3.01 PROCEDURES

- A. Contractor shall submit a written request to Designer indicating they have achieved Substantial Completion of Work.
- B. Within a reasonable time after receipt of the request, Designer will inspect Work to determine status of completion.
- C. Should Designer determine the Work is not substantially complete:

- 1. Designer promptly will so notify Contractor, in writing giving reasons therefore and providing sufficient details to allow Contractor to make corrective actions.
- 2. Contractor shall then expeditiously remedy the deficiencies and notify Designer in writing when ready for re-inspection.
- 3. Designer will re-inspect the Work.
- 4. Excessive re-inspections of Work may result in fees being assessed Contractor.
- D. Should Designer concur the Work is substantially complete:
 - 1. Designer will prepare a letter of Substantial Completion.
 - 2. Designer will submit the letter to Owner and Contractor.
 - 3. Contract shall be deemed "Closed Out" for retainage purposes.
 - 4. Final Acceptance of the system shall be deemed complete.

END OF SECTION

SECTION 27 41 16 MULTIMEDIA SYSTEMS

PART 1 - GENERAL

1.01 DESCRIPTION OF PROJECT

- A. Work described in this specification section pertains to new classroom, commons, break-out spaces, cafeteria and gymnasium multimedia infrastructure and instructional equipment for Edgerton Trails Elementary School.
- B. Work is expected to begin in earnest as soon as November/December 2023, and continue until completed on or before March 7, 2024. All work shall be carefully coordinated with the Owner, Construction Manager and Designer for minimal disruptive impact on the operations of the Owner in the delivery of instruction. Work is expected to be completed during 1st shift with weekend work as needed.
- C. Contractors shall propose Systems and/or components to be deployed using standard procedures and technology components and as specified herein. The system components shall be installed and connected to the owner's existing physical infrastructure and as specified herein.
- D. Contractor shall advise, coordinate, and work cooperatively with Owner representatives or owner's designee related to any configuration changes required and/or proposed for Owner's existing physical infrastructure.
- E. Contractor shall work collaboratively with Owner and Designer. Work shall include but not be limited to installation of supplied equipment, removal of existing equipment and full operational capacity of system as specified herein.
- F. The Contractor shall design, engineer, configure, supply, connect, test, document, train Owner representatives and warrant a fully operational and compliant system and/or component connection to the system complete and with full functionality as specified herein.
- G. Contractor shall provide all transportation and delivery services in a timely manner to individual work location(s) at each site of work in preparation for installation activity.
- H. Contractor shall coordinate their installation with other contractors, Designer and the Owner as is appropriate.

1.02 WARRANTY

- A. Complete installation shall be free from defect and/or failure for a period of warranty. Any replacement, upgrade, or fix, including labor for any non-conforming or non-operational part of the system shall be fixed and/or replaced at no cost to the Owner.
- B. Manufacturer's warranty shall be provided for all components of the system.
 - 1. Any documents and/or submittals required by individual manufacturers for compliance with the standard and/or applicable extended warranty programs shall be provided and submitted for approval by the Contractor.
 - 2. Contractor shall submit all documents, apply for warranty or extended warranty certification, and provide a Certificate of Warranty or Extended Warranty as may be applicable from the manufacturer prior to project closeout.
 - 3. Standard manufacturer warranty duration and terms shall be identified for each component with bid as well as additional fee required for warranty duration election of each of the following terms:
 - a. Three (3) year parts and labor warranty.
- C. On site services provided under the warranty shall be performed by personnel or representatives of manufacturer of individual components and/or appropriately trained and certified Contractor representatives as herein defined and located within physical proximity to provide response levels deemed acceptable to Owner.
- D. Contractor shall provide the following response times for all malfunctioning equipment:
 - 1. Twenty-four (24) hours or less for matters that render twenty percent (20%) or more of the system unable to maintain normal functionality.
 - 2. Two (2) business days for matters not meeting the above criteria.
 - 3. Response time shall be measured from the time Contractor is notified by Owner to the time work is begun to resolve the matter.
- E. Bidder shall provide current annual maintenance contract pricing, terms and conditions for recommended maintenance programs for all equipment following the specified and included warranty periods as a Voluntary Alternate. This information will be considered by Owner and Designer as part of the bid evaluation process.
- F. System Warranty shall commence on date of substantial completion as certified by Designer and provided for herein. Delivery to work site of materials, physical removal from packaging, issuance of Contractor

documents including, but not limited to invoices and/or packing slips, or any event or documentation, not specifically provided for herein, shall have <u>no</u> effect on Warranty or System Acceptance by Owner and/or Designer.

1.03 SUBMITTALS

- A. Submittals shall consist of, but not be limited to, technical cut sheets and detailed information pamphlets on all components of the system to be installed. All cut sheets and submittals shall be distinctly marked to highlight the actual part number of the item being submitted for approval with Bid Proposals.
- B. Shop drawings, data sheets and diagrams shall be submitted by Bidder for approval by Designer with Bid Proposals.
 - 1. Shop drawings, data sheets and diagrams shall show all data relating to structural, electrical, wiring, cross connect, interconnect, equipment arrangement/layout, and any other information deemed significant by the Designer.
 - 2. No work constituting final installation shall be commenced until after approval of shop drawings, data sheets and diagrams by Designer.
- C. Contractor shall provide proof of manufacturer support by photocopy of certification and letter of support from major component manufacturers for this specific project with Bid Proposals.
- D. Equipment or material installed for this project that do not have an approved submittal associated with it, will be removed, and replaced with acceptable equipment or material as defined by the Designer. All replacement costs including, but not limited to material and labor, shall be the sole responsibility of the Contractor.
 - 1. The Owner and/or Designer may notify Contractor of any offending situations under this provision allowing Contractor up to forty-eight (48) hours to correct the situation prior to taking other corrective action.
 - 2. The Owner reserves the right to replace unapproved materials and deduct the costs of doing so as defined herein from any amounts that may be due or become due Contractor.
- E. The Contractor shall submit within ten (10) calendar days after the Notice to Proceed, a schedule that reflects the sequence of activities of the contractor's approach to the execution of and completion of the work. The schedule shall be broken into work areas to provide for a clear identification of the planned progress of the work. Included in the schedule will be a list of tasks with list of deliverables and the percentage of work completed. This schedule shall coincide with progress payments applications dates and projected amounts.

All durations shown will be in working days. Applications that generate <u>Microsoft Project</u> compatible files shall be management tools of choice. The timeframe described in the Contractor's Schedule shall represent the Contractor's plan for organizing, directing, managing, controlling, staffing, and executing the work required by the Contract Documents. The district will rely on such schedules to coordinate and otherwise plan the work of the District, other separate contractors, or the District's routine daily work.

1.04 REFERENCE SPECIFICATIONS

- A. All work, products, and materials shall conform with the following standards as applicable for the intended use:
 - 1. EIA/TIA Commercial and Administration Standards
 - 2. NEC
 - 3. IEEE 802
 - 4. IETF RFCs
 - 5. FCC All Applicable Rules and Regulations
 - 6. UL
 - 7. MIOSHA Safety Standards

1.05 CONTRACTOR

- A. The Contractor shall accept complete responsibility for the installation, certification and support of the system and/or components as required herein. Contractor shall be an authorized vendor of all major components.
- B. All work shall be performed and supervised by Project Managers, Engineers and/or Technicians who are qualified to install specified equipment and perform related tests as recommended by the manufacturer and in accordance with the manufacturer's best practices and methods and as required herein.
- C. Project Managers, Engineers and Technicians employed on this project shall be properly and fully trained and qualified by the manufacturer on the installation and testing of the equipment and systems to be installed.
- D. The Contractor shall have a proven track record in comparable system supply, configuration, and installation. This must be shown by the inclusion of references of at least three (3) projects involving the supply and/or installation of similar systems completed by the Contractor in the prior two (2) years with the sealed Bid Proposal as provided herein.

PART 2 - PRODUCTS

- 2.01 Acceptable Manufacturers
 - A. Acceptable manufacturers have been provided to comply with a standard for individual components associated with the specified system. Indicated components include particular models and makes currently installed and/or preferred by Owner.
 - B. Any system bid shall be based only on acceptable manufacturer's components.
- 2.02 Supply most current version of all products provided.
 - A. Manufacturer shall have five (5) years of experience and history manufacturing similar products to those specified.
 - B. Proposed components shall have been field tested and proven in actual use.
 - C. Prior and/or old versions of products, unless specifically approved and documented by Designer and/or Owner shall not be acceptable.
 - D. In cases where a newer version of hardware or software is available at the time of installation, Contractor shall request clarification from Designer on which version is to be used.
- 2.03 Furnish only new, first-class quality materials and equipment.

2.04 SURGE SUPRESSOR POWER STRIP

- A. One (1) six (6) position surge suppressor power strip shall be provided for each teacher workstation location indicated with a TW on provided technology drawings.
- B. Acceptable Manufacturers (In alphabetical order):
 - 1. APC
 - 2. Tripp-Lite
 - a. TLP615 or equal
- C. Contractor shall match length of other connection cables.
- D. Power strip shall be mounted with wood screws to Owner provided teacher station.
- 2.05 ULTRA SHORT THROW VIDEO PROJECTORS

- A. One (1) ultra short throw video projector shall be provided and installed in each classroom location as indicated with projector symbol on provide technology drawings.
- B. Acceptable Manufacturer:
 - 1. EPSON
 - a. Brightlink 770F (Model: V11HA79020)
- C. Projectors shall meet or exceed the following minimum output, port availability and other standards:
 - 1. 4,100 lumens of color and white brightness
 - 2. All other features currently a part of the manufacturer's latest commercial release.
 - 3. Contractor shall include appropriate wall mount bracket.
 - 4. All work shall conform to manufacturers best practices recommendations.
 - 5. Work includes extending Ethernet Category 6 compliant patch cables from installed equipment, as required, to Owner identified connection ports at all locations.
 - a. Patch cables shall not exceed fifteen (15) feet in length.
 - 6. Material and labor to cross connect projectors in communication closets to PoE switches shall be provided by Contractor using provided Category 6 patch cables.
 - a. Cable lengths shall be appropriate for connections made, and not include excessive cable.
 - b. Coordinate all work with Owner, Designer and other Contractors prior to installation.
 - c. Grommeted or brush style stainless steel face plate shall be provided at projector location to cleanly transition from wall or ceiling to projector location. Contractor shall neatly bundle all cables in split braid tech wrap to projector.
- D. Electrical outlet adapter shall provide surge protection and be mechanically secured with a threaded screw to the existing outlet. Product shall be SOKETPUG or similar.
2.06 MULTIMEDIA CONNECTION BUNDLES

- A. Fully assembled infrastructure cable bundles shall be provided and installed in each classroom location as indicated with projector symbol on provide technology drawings.
- B. Acceptable Manufacturer
 - 1. Cable shall be of commercial first-class quality manufacture.
- C. All Cable shall be fifteen feet (15') in length and terminate in the following connector genders:
 - 1. Classroom Multimedia Workstation Black Category 6 Patch Cable (M/M).
 - 2. Phone Black Category 6 Patch Cable (M/M).
 - 3. 3.5mm Audio Cable M/M
 - 4. A single F6 Woven Wrap-Around Braided Sleeving to contain and protect all associated cable secure with Velcro straps.
 - a. Velcro straps shall be trimmed and flush with sleeving material.
 - b. Velcro straps shall be loose enough for cable movement.
 - c. Coordinate all color selections with Owner and Designer.
 - d. Braided sleeving should be cut and sealed cleanly using a hot knife or similar tool.

2.07 DOCUMENT CAMERA

- A. One (1) Document Camera shall be provided and installed in each classroom location as indicated with projector symbol on provide technology drawings.
- B. Acceptable Manufacturers
 - 1. iPevo
 - a. V4K
 - 2. Or Equal.
- C. Document Camera shall provide for USB-C connection to workstation.
- D. All features currently a part of the manufacturer's latest commercial release shall be included.

2.08 VOICE AMPLIFICATION EQUIPMENT

- A. One (1) Voice Amplification System shall be provided and installed in each classroom location as indicated with projector symbol on provide technology drawings.
- B. Acceptable Manufacturers
 - 1. LIGHTSPEED
 - a. 975 Access
- C. Voice Amplification systems shall meet or exceed the following minimum standards:
 - 1. DECT (1.9 GHz) communication for complete classroom coverage of two (2) microphones simultaneously.
 - 2. Two (2) highly durable, rechargeable, battery powered, tamper resistant, impact resistant, lanyard based pendant microphones.
 - a. Lightspeed volume control Flexmikes
- D. In the event of a power failure, system shall automatically re-initialize and "become active" to the last configuration in use with no human intervention.
- E. Contractor shall provide one (1) shielded audio cable to connect input port on amplifier to 3.5mm jack at Teacher Station (TW) for auxiliary device connection at the instructor's discretion. Connection will be integrated in keystone plate provided by Others.
- F. Contractor shall provide one (1) audio cable for connectivity from audio output of projector to amplifier to support a fully functional and compliant system.
- G. Contractor shall supply all mounting hardware and materials to securely mount the audio amplifier at projector location.

2.09 WIRELESS PRESENTATION DEVICE

- A. Wireless device equipment shall be provided and installed in each classroom location as indicated with projector symbol on provide technology drawings.
- B. Acceptable Manufacturers (in alphabetical order):
 - 1. KRAMER
 - a. VIA GO2

- C. Device shall meet or exceed the following requirements:
 - 1. HDMI output with support for up to 4K30Hz video streaming
 - 2. Gigabit LAN and dual-band 802.11ac Wireless connectivity
 - 3. 4GB Memory
 - 4. 32GB Storage
 - 5. 3.5mm Audio Output
 - 6. All other features currently a part of the manufacturer's latest commercial release.
 - 7. Microsoft Active Director integration
 - 8. Device shall be securely mounted at projector location
 - 9. Contractor will provide and install centralized on premise device management application and licensing for complete warranty period
- D. Cables and Accessories
 - 1. 3' HDMI cable for connectivity to projector
 - 2. All necessary mounting brackets and connectors to securely mount at projector location.
 - 3. Work includes extending Ethernet Category 6 compliant patch cables from installed equipment, as required, to Owner identified connection ports at all locations.
 - a. Patch cables shall not exceed fifteen (15) feet in length.
 - 4. Material and labor to cross connect wireless presentation systems in communication closets to PoE switches shall be provided by Contractor using provided Category 6 patch cables.
 - a. Cable lengths shall be appropriate for connections made, and not include excessive cable.
 - b. Coordinate all work with Owner, Designer and other contractors prior to installation.
 - 5. Contractor shall coordinate installation and configuration of Wireless Presentation System per manufacturer recommended guidelines. Contractor shall work collaboratively as necessary with Owner and network support resources for a complete and compliant installation.

2.10 COMPUTER DOCKING STATION

- A. One (1) Docking station shall be provided and installed in each classroom location as indicated with projector symbol on provide technology drawings.
- B. Docking Stations shall meet or exceed the following minimum standards:
 - 1. Acceptable manufacturers (in alphabetical order):
 - a. Dell Model WD22TB4
 - 2. One (1) 90w+ USB C Charging for Laptop
 - 3. Two (2) HDMI 2.0 connection for desktop monitor(s)
 - 4. One (1) RJ45 Ethernet for network connectivity
 - 5. Three (3) USB 3 Type-A connectors
 - 6. Two (2) USB 3 Type-C connectors
 - 7. VESA Mount
 - 8. All other features currently a part of the manufacturer's latest commercial release.
- C. Computer docking stations shall be mounted to Owner provided teacher stations using a 75mm VESA Mount and wood screws.
 - 1. VideoSecu two-piece Ultra-Thin LCD LED Monitor Mount for Flat Panel
 - a. Or equal.

2.11 MONITOR

- A. One (1) Computer Monitor shall be provided and installed in each classroom location as indicated with projector symbol on provide technology drawings.
- B. Monitors shall meet or exceed the following minimum standards:
 - 1. Acceptable manufacturers (in alphabetical order):
 - a. ViewSonic 24" IPS Monitor Model VA2459-SMH
 - 2. 1920 x 1080 IPS
 - 3. HDMI Input
 - 4. VESA Mount

- 5. Integrated Power Supply
- C. Monitor shall be mounted to teacher workstation using a single monitor desk mounted adjustable gas spring monitor arm. Mount shall be MOUNTUP Brand Model MU0004 or equal.
- D. All other features currently a part of the manufacturer's latest commercial release.

2.12 AUDIO SPEAKERS

- A. Classroom speakers are indicated on the drawings with a (S4).
- B. Acceptable Manufacturer:
 - 1. LIGHTSPEED
- C. Where classroom speakers are to be installed in drop ceilings, they shall be near flush mount and cleanly cut into available tiles for optimal and uniform audio fill of the relevant classroom space. Speakers shall meet or exceed the following minimum standard requirements:
 - 1. 6" driver; 1" horn per speaker
 - 2. Frequency response: 40 Hz 20 kHz
 - 3. Impedance of 8 Ohms
 - 4. Power handling of 30 watts
 - 5. Speakers shall be mounted in fully enclosed, acoustically appropriate, metallic back boxes and fully supported by appropriate tile bridges.
- D. Where flush mounting is not possible or practical, Contractor shall install surface mounted speakers meeting or exceeding all requirements above.
- E. Where specific speaker location is in question, obtain Owner approval prior to any final installation activity.
- F. All speakers shall include attractive finished white grill.
- G. All speaker wire shall be 16 AWG high quality cable.
- H. All speaker cable shall be connected to audio amplifier at the projector location.
- 2.13 SPECIAL CONDITION LOCATIONS
 - A. Configuration A

- 1. Contractor shall supply one (1) of the specified configurations in the following locations.
 - a. Learning Commons B123
- 2. Two (2) Projector(s) shall be provided.
- 3. Acceptable Manufacturer(s)
 - a. EPSON
 - 1. EB-PU1006W
 - 2. Lens ELPLM10 (Middle)
- 4. Projectors shall be installed and positioned for the projected image to completely fill Contractor provided powered rollup screens.
- 5. Projectors shall be securely installed and affixed to mounting system and downpipe that is structurally attached to finished ceiling. Contractor shall supply appropriate mount and downpipe to extend projector securely and safely to optimal location for projection onto Contractor provided screen.
- 6. Provided white projector downpipe shall allow routing of projector cabling internally.
- 7. Projector shall be connected to supplied Crestron control system to receive transmission of signal from supplied input locations.
- B. Contractor shall supply necessary Crestron NVX decoding equipment and accessories to integrate projector with provided input location and devices.
 - 1. Contractor shall supply and install all necessary patch cables to connect equipment to network and in data closet location. Contractor shall cross connect equipment in data closet and report to Owner data closet, switch and port location for programming.
 - 2. Supplied Crestron NVX equipment shall be 4K60 4:4:4 capable.
 - 3. Supplied Crestron NVX equipment shall scale images to optimal projector resolution.
- C. Two (2) Powered Rollup Projection Screen(s)
 - 1. Acceptable Manufacturer(s)
 - a. DA-LITE Tensioned Contour Electrol
 - b. DRAPER

- 2. Powered Rollup Projection Screen shall meet or exceed the following minimum requirements:
 - a. 78" x 139" Wide (16:9) Format
 - b. White case
 - c. Surface mount
 - d. Matte white screen surface
 - e. Low voltage control RS-232 capable
 - f. Appropriate mounting hardware to flush mount screen to the horizontal surface of the bulkhead.
 - g. All necessary cabling and accessories to connect powered rollup screen to supplied control system.
- D. One (1) Multimedia Processor
 - 1. Acceptable Manufacturer(s)
 - a. Crestron
 - 1. CP4
 - b. Contractor shall supply all mounting hardware to securely mount equipment into supplied rack located in Telecom Room B122.
 - c. Contractor shall provide all control, communication, audio and video patch cables to connect input and output ports to all Contractor provided materials.
 - d. Contractor shall program Multimedia processor to integrate with Contractor provided powered roll-up screen and projectors. Contractor shall supply all necessary cabling and programming to fully enable integration with control system.
 - e. Contractor shall provide all system programming and operation software for a fully functional and operational system. All programming and/or configuration activity shall be completely coordinated and approved by Owner and/or Designer prior to initiation of final installation activity.
 - f. Contractor shall integrate Contractor supplied wireless presentation system with control system.

- g. Contractor shall provide and install fully compliant shielded cabling and any other low voltage communication infrastructure needed to fully connect to the projection system from two (2) input plates and one (1) wireless presentation system. Cable shall meet or exceed Crestron requirements for NVX systems.
- h. Contractor shall completely integrate control system and multimedia systems with provided audio system.
- E. Two (2) Multimedia Input Locations shall be provided.
 - 1. Acceptable Manufacturer(s)
 - a. CRESTRON
 - 1. DM-TX-4KZ-100-C-1G-W-T
 - 2. White in color
 - 3. Input 1 Near Touchscreen
 - a. Contractor shall supply and install recessed box for new wall input. Box shall be carefully cut into gypsum board wall and fed from data closet in adjacent space. Contractor shall supply stainless-steel plate.
 - 4. Input 2 -In Floor Box
 - a. Contractor shall integrate transmitter into floor box. Contractor shall supply all necessary plates, connectors and accessories for a fully finished installation.
- F. Contractor shall supply correct in-plate DM transmit and receive equipment to extend input location to supplied 4K60 NVX encoder.
- G. One (1) Touch Screen(s) shall be provided. Indicated on drawings as TP.
 - 1. Acceptable Manufacturer(s)
 - a. Crestron
 - 1. TSW-770-W-S
 - 2. Touch Screen(s) shall be provided to control system operations.
 - 3. Connect touch screens to supplied NVX control system as per manufacturer installation instructions.

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- 4. Contractor shall install recessed double gang box for touch screen installation in location identified on provided drawings. Contractor shall feed box from adjacent data closet.
- 5. Provide all necessary cabling, mounts and accessories to securely mount touch screen in provided double gang box.
- 6. Control touch screen shall be provided in locations specified herein that shall provide the following functions but not limited to.
 - a. System Power On
 - b. System Power Off
 - c. Select Source, input 1, input 2, input 3 or wireless presentation system
 - d. Select Destination, projector 1 or projector 2
 - e. Discrete audio level control of all audio inputs including wireless microphone system
 - f. Image Freeze
 - g. Audio Mute
 - h. White in color
- H. Contractor shall provide all control, communication, audio and video patch cables, transmitters and receivers to connect input and output ports to all Contractor and Owner provided materials in the space.
- I. Contractor shall program Multimedia Control System to integrate with provided motorized electric screens, lighting and motorized electric roller shades.
- J. One (1) Wireless Presentation System shall be provided.
 - a. Acceptable Manufacturers (in alphabetical order):
 - 1. KRAMER VIA GO2
 - 2. Wireless Presentation System shall meet or exceed the following requirements:
 - a. HDMI output with support for up to 4K@30Hz.
 - b. Gigabit LAN and dual-band 802.11ac Wireless connectivity
 - c. 4GB Memory

- d. 32GB Storage
- e. All other features currently a part of the manufacturer's latest commercial release.
- f. Contractor shall supply all mounting hardware to securely mount equipment into supplied rack located in Telecom Room B122.
- g. Contractor shall integrate wireless presentation system with provided Crestron control system.
- h. Contractor shall coordinate installation and configuration of Wireless Presentation System per manufacturer recommended guidelines. Contractor shall work collaboratively as necessary with Owner and network support resources for a complete and compliant installation.
- i. Contractor shall supply and install all necessary patch cables to connect equipment to network and in data closet location. Contractor shall cross connect equipment in data closet and report to Owner data closet, switch and port location for programming.
- K. One (1) Voice Amplification System(s) shall be provided.
 - 1. Acceptable Manufacturer(s)
 - a. SHURE
 - 1. SLX124/85/SM58
 - b. Or Approved Equivalent
 - c. Handheld and Lavalier microphone combo
 - d. Contractor shall supply and install any necessary external antennas and cabling to enable clear and reliable audio signal coverage for entire learning commons.
 - e. Contractor shall supply all mounting hardware to securely mount equipment into supplied rack located in Telecom Room B122.
- L. Pendent Speakers shall be provided and installed (Indicated on Drawings as **S6**)
 - 1. Acceptable Manufacturer(s)
 - a. CRESTRON
 - 1. SAROS PD8T-W-T-EACH

- b. Or Approved Equivalent
 - 1. Passive 2-way full range speaker
 - 2. 8 ohms
 - 3. 90.5 dB sensitivity
 - 4. 50Hz-20kHz +/- 3dB
- c. Speakers shall be placed in locations throughout learning commons for even distribution of sound, final speaker locations to be reviewed by Owner and/or Designer.
- d. Contractor shall safely and securely mount speakers to learning commons ceiling structure using manufacturer recommended and industry best practices.
- e. Contractor shall supply and install properly sized speaker cabling to support supplied speakers. Each speaker shall be independently wired back to Owner provided rack.
- f. Speakers shall be white in color.

M. One (1) DSP shall be provided and installed.

- 1. Acceptable Manufacturer(s)
 - a. Biamp/Community
 - b. Crestron
 - c. Symetrix
 - d. Or Approved Equivalent
- 2. System shall be populated with necessary accessories for eight (8) linelevel output audio channels.
- 3. System shall be populated with necessary accessories for eight (8) linemic or line-level input audio channels.
- 4. Contractor shall supply all parts, cables and accessories to securely mount unit in provided cabinet.
- 5. Contractor shall supply all necessary labor to configure Mixer/DSP for even audio reproduction throughout the learning commons.

- 6. DSP shall allow discreet control of each audio input from provided Crestron control panel.
- 7. Contractor shall provide all system programming and operation software for a fully functional and operational system. All programming and/or configuration activity shall be completely coordinated and approved by Owner and/or Designer prior to initiation of final installation activity.
- 8. Contractor shall supply all cables and accessories for a fully functional system.
- N. One (1) Amplification System shall be provided and installed.
 - 1. Acceptable Manufacturer(s)
 - a. Harman/JBL Pro
 - 1. CSA2300Z
 - 2. Or Approved Equivalent
 - b. Two (2) input channels
 - c. Two (2) output channels
 - d. 300W maximum output per channel
 - e. S/N (20 Hz 20kHz (a) 8 Ohms) > 97 dB
- 2.14 Configuration B
 - A. Contractor shall supply one (1) of the specified configurations in the following locations.
 - a. Cafeteria B151
 - B. One (1) Projector
 - 1. Acceptable Manufacturer(s)
 - a. EPSON
 - 1. EB-PU1006W
 - 2. ELPLU04 (Short)
 - 2. Projector shall be installed and positioned for the projected image to completely fill Contractor provided powered rollup screen(s).

- 3. Projector shall be securely installed and affixed to mounting system and downpipe that is structurally attached to finished ceiling. Contractor shall supply appropriate mount and downpipe to extend projector securely and safely to optimal location for projection onto Contractor provided screen.
- 4. Provided white projector downpipe shall allow routing of projector cabling internally.
- 5. Projector shall be connected to supplied Crestron control system to receive transmission of signal from supplied input locations.
- 6. Contractor shall supply necessary Crestron NVX decoding equipment and accessories to integrate projector with provided input location and devices.
- 7. Contractor shall supply and install all necessary patch cables to connect equipment to network and in data closet location. Contractor shall cross connect equipment in data closet and report to Owner data closet, switch and port location for programming.
- 8. Supplied Crestron NVX equipment shall be 4K60 4:4:4 capable.
- 9. Supplied Crestron NVX equipment shall scale images to optimal projector resolution.
- C. One (1) Powered Rollup Projection Screen(s)
 - 1. Acceptable Manufacturer(s)
 - a. DA-LITE Tensioned Contour Electrol
 - b. DRAPER
 - 2. Powered Rollup Projection Screen shall meet or exceed the following minimum requirements:
 - a. 78" x 139" Wide (16:9) Format
 - b. White case
 - c. Surface mount
 - d. Matte white screen surface
 - e. Low voltage control RS-232 capable

- f. Appropriate mounting hardware to flush mount screen to the horizontal surface of the bulkhead.
- g. All necessary cabling and accessories to connect powered rollup screen to supplied control system.
- D. Two (2) LED Monitor(s)
 - 1. Acceptable Manufacturer(s)
 - a. SAMSUNG QB65R
 - 2. Contractor shall supply and install appropriate mounts for supplied LED monitors, one (1) flat mount Peerless SF660P or Chief equivalent shall be provided for each monitor. See drawings for location.
 - 3. All monitors shall be controlled through supplied control system. If expansion of controller IO is necessary Contractor shall provide necessary IO expansion units.
 - 4. Contractor shall supply appropriate NVX equipment for discrete output for each monitor concurrently for a fully functional system.
 - 5. Intended use of the monitor is to mirror the projector when in use. If projector is not in use the monitor shall be able to operate independently through the input plate or a network connection to owner provided digital media player.
- E. One (1) Multimedia Processor
 - 1. Acceptable Manufacturer(s)
 - a. Crestron
 - 1. CP4
 - 2. Contractor shall supply all parts, cables and accessories to securely mount the unit in a new AV rack in Storage Room B150.
 - 3. Contractor shall provide all control, communication, audio and video patch cables to connect input and output ports to all Contractor provided materials.
 - 4. Contractor shall program Multimedia processor to integrate with Contractor provided powered roll-up screen and projectors. Contractor shall supply all necessary cabling and programming to fully enable integration with control system.

- 5. Contractor shall provide all system programming and operation software for a fully functional and operational system. All programming and/or configuration activity shall be completely coordinated and approved by Owner and/or Designer prior to initiation of final installation activity.
- 6. Contractor shall integrate Contractor supplied wireless presentation system with control system
- 7. Contractor shall provide and install fully compliant shielded cabling and any other low voltage communication infrastructure needed to fully connect to the projection system from three (3) input plates and one (1) wireless presentation system. Cable shall meet or exceed Crestron requirements for NVX systems.
- 8. Contractor shall completely integrate control system and multimedia systems with provided audio system.
- 9. Contractor shall program Multimedia Control System to integrate with provided motorized electric screens, lighting and motorized electric roller shades.
- F. Two (3) Multimedia Input Locations shall be provided.
 - 1. Acceptable Manufacturer(s)
 - a. CRESTRON
 - 1. DM-TX-4KZ-100-C-1G-W-T
 - 2. White in Color
 - 3. Input 1 Near Touchscreen
 - a. Contractor shall supply surface mount double gang-box fed from data closet in adjacent space. Contractor shall supply stainless-steel plate.
 - 4. Input 2 Under Cafeteria Monitor 1
 - a. Contractor shall integrate transmitter into single gang box. Contractor shall supply all necessary plates, connectors and accessories for a fully finished installation.
 - 5. Input 2 Under Cafeteria Monitor 2

- a. Contractor shall integrate transmitter into single gang box. Contractor shall supply all necessary plates, connectors and accessories for a fully finished installation.
- G. Contractor shall supply correct in-plate DM transmit and receive equipment to extend input location to supplied 4K60 NVX encoders.
- H. One (1) Touch Screen(s) shall be provided. Indicated on the drawings as TP.
 - 1. Acceptable Manufacturer(s)
 - a. Crestron
 - 1. TSW-770-W-S
 - 2. Touch Screen(s) shall be provided to control system operations.
 - 3. Connect touch screens to supplied NVX control system as per manufacturer installation instructions.
 - 4. Contractor shall install recessed double gang box for touch screen installation in location identified on provided drawings. Contractor shall feed box from adjacent data closet.
 - 5. Provide all necessary cabling, mounts and accessories to securely mount touch screen in provided double gang box.
 - 6. Control touch screen shall be provided in locations specified herein that shall provide the following functions but not limited to.
 - a. System Power On
 - b. System Power Off
 - c. Select Source, input 1, input 2, input 3 or wireless presentation system
 - d. Select Destination, projector 1, monitor 1 or monitor 2
 - e. Discrete audio level control of all audio inputs including wireless microphone system
 - f. Image Freeze
 - g. Audio Mute
 - h. White in color

- 7. Contractor shall provide all control, communication, audio and video patch cables, transmitters and receivers to connect input and output ports to all Contractor and Owner provided materials in the space.
- I. One (1) Wireless Presentation System
 - a. Acceptable Manufacturers (in alphabetical order):
 - 1. KRAMER VIA GO2
 - 2. Wireless Presentation System shall meet or exceed the following requirements:
 - a. HDMI output with support for up to 4K@30Hz.
 - b. Gigabit LAN and dual-band 802.11ac Wireless connectivity
 - c. 4GB Memory
 - d. 32GB Storage
 - e. All other features currently a part of the manufacturer's latest commercial release.
 - f. All necessary cables, mounting brackets and connectors to securely mount Wireless presentation system in Contractor provided rack.
 - g. Contractor shall integrate wireless presentation system with provided Crestron control system.
 - 3. Contractor shall coordinate installation and configuration of Wireless Presentation System per manufacturer recommended guidelines. Contractor shall work collaboratively as necessary with Owner and network support resources for a complete and compliant installation.
 - Contractor shall supply and install all necessary patch cables to connect equipment to network and in data closet location. Contractor shall cross connect equipment in data closet and report to Owner data closet, switch and port location for programming.
- J. One (1) Voice Amplification System(s) shall be provided.
 - 1. Acceptable Manufacturer(s)
 - a. SHURE

- 1. SLX124/85/SM58
- b. Or Approved Equivalent
- 2. Handheld and Lavalier microphone combo
- 3. Contractor shall supply and install any necessary external antennas and cabling to enable clear and reliable audio signal coverage for entire cafeteria.
- 4. Contractor shall supply all mounting hardware to securely mount equipment into supplied rack.
- K. In-ceiling Speakers shall be provided and installed (Indicated on Drawings as **S7**)
 - 1. Acceptable Manufacturer(s)
 - a. CRESTRON
 - 1. SAROS IC8T-W-T-EACH
 - b. 8" speaker
 - c. White in color
 - 2. Contractor shall supply and install properly sized speaker cabling to support supplied speakers. Each speaker shall be independently wired back to Contractor provided rack.
- L. Pendant Speakers shall be provided and installed (Indicated on Drawings as **S6**)
 - 1. Acceptable Manufacturer(s)
 - a. CRESTRON
 - 1. SAROS PD8T-W-T-EACH
 - b. Or Approved Equivalent
 - 2. Speakers shall be placed in locations throughout learning commons for even distribution of sound, final speaker locations to be reviewed by Owner and/or Designer.
 - 3. Contractor shall safely and securely mount speakers to learning commons ceiling structure using manufacturer recommended and industry best practices.

- 4. Contractor shall supply and install properly sized BLUE speaker cabling to support supplied speakers. Each speaker shall be independently wired back to Contractor provided.
- M. One (1) DSP shall be provided and installed.
 - 1. Acceptable Manufacturer(s)
 - a. Biamp/Community
 - b. Crestron
 - c. Symetrix
 - d. Or Approved Equivalent
 - 2. System shall be populated with necessary accessories for eight (8) line-level output audio channels.
 - 3. System shall be populated with necessary accessories for eight (8) line-mic or line-level input audio channels.
 - 4. Contractor shall supply all parts, cables and accessories to securely mount unit in provided cabinet.
 - 5. Contractor shall supply all necessary labor to configure Mixer/DSP for even audio reproduction throughout the learning commons.
 - 6. DSP shall allow discreet control of each audio input from provided Crestron control panel.
 - 7. Contractor shall provide all system programming and operation software for a fully functional and operational system. All programming and/or configuration activity shall be completely coordinated and approved by Owner and/or Designer prior to initiation of final installation activity.
 - 8. Contractor shall supply all cables and accessories for a fully functional system.
- N. One (1) Amplification System shall be provided and installed.
 - 1. Acceptable Manufacturer(s)
 - a. Harman/JBL Pro
 - 1. CSA2300Z
 - 2. Or Approved Equivalent

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- b. Two (2) input channels
- c. Two (2) output channels
- d. 300W maximum output per channel
- e. S/N (20 Hz 20 kHz @ 8 Ohms) > 97 dB
- O. One (1) Rack System(s) shall be provided and installed
 - 1. Acceptable Manufacturer(s)
 - a. Middle Atlantic
 - 1. DWR-12-26PD
 - b. Or Equal.
 - 2. Wall Mount
 - 3. 12U
 - 4. Plexiglas Locking Door
 - 5. Forward rackrail
 - 6. UL Load Capacity 200 lbs
 - 7. 26" usable depth
 - 8. 21" usable height
 - 9. Contractor to supply 15A eight (8) outlet power sequencer/PDU (Furman M-8S or equal).
- 2.15 Configuration C
 - A. Contractor shall supply one (1) of the specified configurations in the following locations.
 - 1. Gymnasium B136
 - B. One (1) Rack System(s) shall be provided and installed
 - 1. Acceptable Manufacturer(s)
 - a. Middle Atlantic
 - 1. DWR-12-26PD

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- b. Or Equal.
- 2. Wall Mount
- 3. 12U
- 4. Plexiglas Locking Door
- 5. Forward rackrail
- 6. UL Load Capacity 200 lbs
- 7. 26" usable depth
- 8. 21" usable height
- 9. Contractor to supply 8-Outlet PDU (Middle Atlantic PD-815R or Equal).
- A. Two (2) Voice Amplification System(s) shall be provided.
 - 1. Acceptable Manufacturer(s)
 - a. SHURE
 - 1. SLX124/85/SM58
 - b. Or Approved Equivalent
 - 2. Receiver 1 Handheld Receiver 2 Over the ear/headworn microphone
 - 3. Contractor shall supply and install any necessary external antennas and cabling to enable clear and reliable audio signal coverage for entire cafeteria.
 - 4. Contractor shall supply all mounting hardware to securely mount equipment into supplied rack.
 - 5. Contractor shall supply 3U drawer to store microphone in Contractor supplied rack.
- B. One (1) 7" Touch Screen(s) shall be provided and installed in provided AV rack.
 - 1. Acceptable Manufacturer(s)
 - a. Crestron
 - 1. TSW-770-B-S

- 2. Touch Screen(s) shall be provided to control system operations.
- 3. Provide all necessary cabling, mounts and accessories to securely mount touch screen in provided rack.
- 4. Control touch screen shall be provided in locations specified herein that shall provide the following functions but not limited to.
 - a. System Power On
 - b. System Power Off
 - c. Discrete audio level control of all audio inputs including wireless microphone system and Bluetooth CD device.
 - d. Image Freeze
 - e. Audio Mute
 - f. Black in color
- 5. Contractor shall provide all control, communication, audio and patch cables, transmitters and receivers to connect input and output ports to all Contractor and Owner provided materials in the space.
- C. One (1) DSP shall be provided and installed.
 - 1. Acceptable Manufacturer(s)
 - a. Biamp/Community
 - b. Crestron
 - c. Symetrix
 - d. Or equal.
 - 2. System shall be populated with necessary accessories for eight (8) linelevel output audio channels.
 - 3. System shall be populated with necessary accessories for eight (8) linemic or line-level input audio channels.
 - 4. Contractor shall supply all parts, cables and accessories to securely mount unit in provided cabinet.
 - 5. Contractor shall supply all necessary labor to configure Mixer/DSP for even audio reproduction throughout the cafeteria.

- 6. DSP shall allow discreet control of each audio input from provided Crestron control panel.
- 7. Contractor shall provide all system programming and operation software for a fully functional and operational system. All programming and/or configuration activity shall be completely coordinated and approved by Owner and/or Designer prior to initiation of final installation activity.
- 8. Contractor shall supply all cables and accessories for a fully functional system.
- D. One (1) Multimedia Processor
 - 1. Acceptable Manufacturer(s)
 - a. Crestron
 - 1. CP4
 - 2. Contractor shall supply all parts, cables and accessories to securely mount the unit in a new AV rack
 - 3. Contractor shall provide all control, communication, audio patch cables to connect input and output ports to all Contractor provided materials.
 - 4. Contractor shall provide all system programming and operation software for a fully functional and operational system. All programming and/or configuration activity shall be completely coordinated and approved by Owner and/or Designer prior to initiation of final installation activity.
 - 5. Contractor shall completely integrate control system and multimedia systems with provided DSP audio system.
- E. One (1) CD/Bluetooth Player shall be provided and installed
 - 1. Acceptable Manufacturer(s)
 - a. DENON
 - 1. DN-300Z
 - b. Or Equal.
 - 2. Extended range Bluetooth antenna
 - 3. AM/FM Radio Tuner
 - 4. USB media player connectivity

- 5. Contractor shall supply all parts, cables and accessories to securely mount unit in provided cabinet.
- 6. Contractor shall provide all audio cables and accessories to integrate CD/Bluetooth player with provided mixer/DSP system.
- F. One (1) Remote input location(s) shall be provided and installed in Contractor provided rack.
 - 1. Remote input location shall provide XLR and 3.5mm connectivity in identified location.
 - 2. Contractor shall supply all cabling, faceplates and accessories for a complete installation.
 - 3. Contractor shall integrate XLR and 3.5mm connection into provided DSP/Mixer system.
- G. One (1) Amplifier shall be provided and installed in Contractor provided rack.
 - Two channel, switch-mode power supply, direct outputs, min. 600W/channel into 8-ohm load. Attenuators, if mounted on front panel, must be covered with security panel or disabled.
 - a. Ashly nX 8002
 - b. Crown DCi 2|600
 - c. Or Equal.
- H. Two (2) Performance speakers shall be provided and installed.
 - 1. High-output two-way coaxial speaker system, 15-inch woofer with large format compression driver, 90 degrees conical nominal HF coverage pattern, white color. Provide appropriate rigging hardware for mounting to roof structure in locations shown on drawings. Bottom of cabinet face shall be parallel to the floor and shall be at the same elevation as the bottom chord of roof trusses. Provide safety cable to secure cabinet to adjacent roof truss, supplementing primary hardware. (Indicated on Drawings as AV-A-S#)
 - a. Danley Sound Labs OS90
 - b. JBL AWC159
 - c. Tannoy VX 15HP
 - d. Or Equal

- I. One (1) Ethernet switch shall be provided and installed.
 - 1. Four (4) unmanaged Gigabit Ethernet ports with Power-over-Ethernet, one Gigabit Ethernet port for uplink.
 - 2. Crestron CEN-SW-POE-5
 - 3. Or Equal.
- 1.02 Configuration D
 - A. Contractor shall supply one (1) of the specified configurations in the following locations. Contractor to supply, configure and install all mounts, cables and connections for a complete installation.
 - 1. Conference Room B114
 - B. Two (2) LED Monitor(s)
 - 1. Acceptable Manufacturer(s)
 - a. SAMSUNG QB65R
 - 2. Contractor shall supply and install appropriate mounts for supplied LED monitors, one (1) flat mount Peerless SF660P or Chief equivalent shall be provided for each monitor. See drawings for location.
 - 3. All monitors shall be controlled through supplied control system. If expansion of controller IO is necessary Contractor shall provide necessary IO expansion units.
 - C. Wireless Presentation Device
 - 1. Wireless device equipment shall be provided and installed in each classroom location as indicated with projector symbol on provide technology drawings.
 - 2. Acceptable Manufacturers (in alphabetical order):
 - a. KRAMER
 - 1. VIA GO2
 - D. Touch Screen
 - 1. Acceptable Manufacturer(s)
 - a. Crestron

- 1. TS-1070-W-S
- 2. Connection shall be configured through LAN.
- E. HDMI Extenders
 - 1. Acceptable Manufacturers(s)
 - a. Crestron
 - 1. HD-RX-4K-210-C-E
- F. Desk Fliptop
 - 1. Owner to approve configuration before ordering.
 - 2. Acceptable Manufacturer(s)
 - a. Crestron
 - FT2-500-PTL with US Dual (Type-B), USB-C/A Charging, RJ45 Connector Plate, RJ45 Connector Plate, HDMI Retractor, Under Table Cloak
- G. UC Video Conference Smart Soundbar & Camera
 - 1. Acceptable Manufacturer(s)
 - a. Crestron
 - 1. UC-SB1-CAM

1.03 ALLOWANCES

- A. Contractor shall include allowances for equipment and/or other contract service reimbursements as required below in base bid lump sum amount(s). Equipment and/or contract services shall be provided and sourced at Owner's discretion and convenience with full cooperation by Contractor and paid for from successful bidder's contract in the amount(s) provided for herein. Any allowance amount proving to be excessive for the intended equipment and/or contract services shall be credited to the Owner against contract payment requests.
 - 1. Allowance shall be made in the amount of \$20,000 for additional technology program items associated with classrooms.
 - 2. Allowance shall be made in the amount of \$6,000 for additional technology program items associated with Learnings Commons.

- 3. Allowance shall be made in the amount of \$6,000 for additional technology program items associated with Cafeteria.
- 4. Allowance shall be made in the amount of \$6,000 for additional technology program items associated with Gymnasiums.

PART 2 - EXECUTION

2.01 PREPARATION

- A. Contractor shall conduct detailed walk-through examination with Designer, Construction Manager and Owner verifying equipment and material locations as well as mounting and placement requirements prior to commencement of other installation activities.
- B. Contractor shall completely cooperate with Owner's Construction Manager for all site access, site safety and related matters. Contractor shall obtain current drawings, specifications and plans from Owner's Construction Manager and make field adjustments as required to correctly and reasonably coordinate with other trades. Contractor will attend all CM field coordination and schedule meetings and cooperate with project timelines as directed.
- C. Contractor shall ensure all submittals and have been provided to, and approval has been obtained from Designer and Owner prior to commencement of any final installation activities. Submittals shall include, but not be limited to:
 - 1. Shop drawings, data sheets and system diagrams including specific cable connectors and types proposed to be installed.
 - 2. Asset tag format, composition, attachment method and location on each serialized component being provided.
 - 3. Firmware configuration template to be used for each component provided.
 - 4. Written installation, coordination, and test procedure to be followed by installing technicians and engineers.
 - 5. Final documentation template.

2.02 INSTALLATION

- A. Contractor shall be familiar with the environment where work will be done as specified herein and make every reasonable effort to minimize interference with Owner's or other contractor's activities.
 - 1. Appendices depicting general ceiling conditions for areas of buildings are included herein. Contractors shall field verify specific room conditions.

- B. Work Areas shall be cleaned at the end of each day. All debris shall be cleared, removed, and disposed of off premise. All equipment and tools shall be removed from common areas and stored in approved, secure storage locations.
 - 1. Owner shall not be responsible for disposal or transportation of any packaging materials or other waste items.
 - 2. Owner's waste containers including site dumpsters shall not be used for material disposal.
- C. All equipment and materials shall be installed in a neat and workmanlike manner. Best practices installation principles shall be used throughout the project.
- D. The Contractor shall furnish, set in place, and install all equipment necessary for a fully compliant and operational system as specified herein. The installation process includes, but is not limited to the following:
 - 1. Inventory receipt of all components and equipment.
 - 2. Storage of all equipment and components until such time those items are installed according to the specifications.
 - 3. Transport equipment to the Owner's installation location(s).
 - 4. Assemble, install, configure, and test all equipment and components, maintaining accurate inventory records and status documents and discarding packaging.
 - 5. Collect all information necessary to accurately program all system devices to the Owner's intended use and need.
 - 6. Label with asset tags and other markings provided by Owner all system devices as may be appropriate and required by Owner and Designer.
 - 7. Work shall be performed to meet local codes and industry standards including proper grounding and bonding of installed equipment. Work shall conform to "best practices" observed by industry professional installers and as required by Owner and Designer.
 - 8. Work shall include careful coordination and cooperation with others to ensure a timely, cost effective and proper installation for Owner's intended application. Such efforts shall include, but not be limited to, coordinating, and cooperating with other contractors, Owner, Designer and Engineer.

- 9. Where cables are to be routed through or on a finished wall, standard connectors must be used at the wall location to terminate call cables. All wall plates shall be stainless steel. Plastic or nylon plates shall not be acceptable. Cables routed out of a wall box on a finished wall without proper standard connection termination shall not be acceptable.
- 10. All cables shall be proper and adequately supported using hooks or rings no more than eight feet (6') apart. Cables supported by structural steel, ceiling grid or hanger wires will not be acceptable. All cable routing shall be neat and orderly.
- 11. All cable connecting components mounted in/on Technology Cart, shall have adequate cable slack to provide for full system inspection and or service without the removal (intentional or inadvertent) of connecting cables, including items that will be placed on the keyboard tray of equipment carts.
- 12. Label all cable connections for intuitive user access and as directed by Owner and Designer.
- 13. Work may include extending cables from installed equipment, and as required and/or specified herein, to Owner identified connection outlets.
 - a. Work includes supply, connection, and testing of any such cables.
 - b. Work includes neatly routing all cables and securing cables with Velcro straps as may be reasonably required to keep cables in position during normal operating, service, and inspection operations.
 - c. Cables for some devices may be routed in air plenum spaces, above finished ceilings, or in other ways require special care and suitable tools to complete. Where air plenum status is in question and/or may change, plenum rated cable shall be used.
- E. All installation and configuration activity shall fully comply with both the manufacturer's recommended procedures as well as industry best practices.

F. VIDEO PROJECTORS

- 1. Install, configure, and test approved firmware configuration template including, but not limited to:
 - a. Power on Image.
 - b. Lamp setting.
 - c. Firmware based Device ID (Including parameters such as: TCP/IP settings, Host Name, etc.).

- d. Default port selection.
- 2. Neatly configure all cables as directed by Owner.
- 3. Attach projector to mount using projector security mounting plate provided by others.
- 4. Connect AC power using cord provided to projector.
- 5. Align projector with screen.
- 6. Set keystone adjustment(s) as required.
- 7. Zoom and focus projector as required.
- 8. Properly and completely secure all adjustment points.
- 9. Coordinate with Owner and Designer markerboard location adjustments.
- 10. Remove and dispose of all excess materials, and packaging as directed by Owner.

G. DOCUMENT CAMERAS

- 1. Develop with Owner and Designer an approved firmware configuration template for all physical and programmatic settings available on the product.
- 2. Install, configure, and test approved firmware configuration template in all spaces as indicated on schedules herein.

H. WIRELESS PRESENTATION DEVICES

- 1. Develop with Owner and Designer an approved firmware configuration template for all physical and programmatic settings available on the product.
- 2. Install, configure, and test approved firmware configuration template in all spaces as indicated on schedules herein.

I. VOICE AMPLIFICATION SYSTEM

- 1. Connect all audio input and output device cables.
- 2. Secure mounting location with mounting screws or Velcro pads to eliminate involuntary equipment movement.
- 3. Neatly route all cabling and secure slack.

- 4. Adjust balance levels for standard configuration.
- 5. Verify target volume level in space with sound meter and record level at installation.
- J. It shall be the responsibility of the Contractor to repair or replace any damage done to the structure of finishes in the building by the Contractor. If in the course of work, Contractor damages, marks, or misplaces any surfaces or access plates/panels the Contractor shall repair and/or replace the surface, plate, or panel to the original condition.
 - 1. Repairs shall include, but not be limited to patching and painting.
 - 2. Final determination as to the damage condition and/or repair/replacement fitness of any surface, plate or panel shall be the sole responsibility of the Designer.
 - 3. The building and work area shall be returned to its original condition prior to final sign-off of the project.

K. GYM AUDIO VISUAL SYSTEM CABLING

- 1. All wires and cables shall be marked at every termination and connection point with permanent clear wrap-around number or letter cable markers. There shall be no unmarked cables in the systems. Any unmarked cables found at Contractor Checkout shall be immediately labeled. Failure to label wires can be cause for rejection of work by the Owner and shall be corrected at no additional cost to the owner. Marking codes used on cables shall correspond to codes shown on drawings or be approved by the Owner.
- 2. Audio and video cables utilizing molded plastic or solderless insulation displacement connectors shall be unacceptable.
- 3. All cable installed in ducts, plenums, and other spaces used for environmental air shall be Type CMP (refer to NEC Article 800.53) or be installed in metallic conduit (in compliance with NEC Article 300.22).
- 4. There shall be no wire splices in conduit.
- 5. Terminal block, boards, strips, or connectors shall be furnished for all cables, which interface with racks, cabinets, consoles, or equipment modules.
- 6. Do not mix audio cables and electrical power cables in the same conduit.
- 7. Do not tie-wrap or bundle audio cables to an electrical power cable.

- 8. Power cables, control cables, and high level cables shall be run on the left side of an equipment rack, as viewed from the rear. All other cables shall be run on the right side of the equipment rack, as viewed from the rear.
- 9. All inter-rack cabling shall be neatly strapped, dressed, and supported as approved by the Owner. Cabling within racks shall be contained in Panduit finger tray or wire-tied to the side of the rack in a neat and orderly fashion. Such cables shall remain separated as indicated herein.
- 10. All cables routed outside of racks and conduit shall be contained in a suitable harness or wireway to maintain a neat, clean, and finished product.
- 11. All cables shall be cut to the length dictated by the run. All equipment installed in racks shall have a service loop of appropriate length.
 - a. For equipment mounted in drawers or slides, the interconnecting cables shall be provided with a service loop of appropriate length to allow for full travel of drawer or slide and enough slack to service and remove any necessary items.
 - b. For equipment mounted in racks accessible from both front and back, provide a service loop length sufficient to plug and unplug cable from the unit to allow for troubleshooting and service of equipment.
 - c. For equipment mounted in racks accessible from the front only, provide a service loop length sufficient to remove the unit from the rack and easily plug and unplug all connectors.

L. PENDENT AND LOUDSPEAKER INSTALLATION

- 1. Mount loudspeakers per manufacturers' specifications using appropriate brackets.
- 2. Wire rope rigging shall be installed by certified and experienced rigging professionals, and all applicable codes and standards shall be strictly applied. Use galvanized wire rope, terminated with thimbles and plated copper Nicopress or equal compression sleeves. Proper Nicopress or equal compression tools shall be used for all sleeves. Cable clips, or any other method of termination that requires periodic inspection and tightening, or does not have a 100% efficiency rating, shall not be used without the approval of the Architect/Engineer.
- 3. Loudspeakers shall be supported from building structure or structurally rated extensions thereof. T-bar lay-in ceiling grid systems are not acceptable for sole support of loudspeakers. A secondary support cable shall be required for all ceiling speaker systems designed to mount in or on lay-in ceiling systems. The cable shall be structurally rated and

permanently secured between the building structure above the speaker and a rigging point on the speaker enclosure specifically designed for such a purpose.

- 4. All rigging and support steel required for installation in addition to any building structure shown on the drawings shall be provided by the Installing Contractor. Installing Contractor is responsible to verify weight and load conditions for all rigging to ensure structural integrity of the building. Any additional structural enhancements shall be performed at the expense of the Installing Contractor without claim for additional payment. If significant structural adjustments are necessary, a Structural Engineer licensed to work in the State of Michigan shall be retained by the Installing Contractor to certify the proposed hanging methods.
- 5. All loudspeakers shall be installed per plans and arranged as shown on the drawings. All conflicts shall be reported and satisfactorily worked out with other trades.
- 6. If significant changes are required, verify with the Engineer prior to making changes. Failure to verify with the Engineer shall result in the Installing Contractor assuming full liability for speaker placement. If a changed speaker placement is deemed unacceptable by the Owner, the Installing Contractor shall rectify the problems to the Owner's satisfaction without claim for additional payment.
- 7. Any changes or revisions must be accompanied with EASE data showing the effect of the resulting configuration as compared to the original design. If a changed speaker placement is deemed unacceptable by the Owner, the Installing Contractor shall rectify the problems to the owner's satisfaction without claim for additional payment.

M. GROUNDING PROCEDURES

- 1. Electrical Contractor and Installing Contractor shall coordinate all materials and work related to the grounding of the audio system. Carry out drawing details and notes in these specifications and on the drawings.
- 2. In order to minimize problems resulting from improper grounding, and to achieve maximum signal-to-noise ratios, the following grounding procedures shall be adhered to:
 - a. Under no circumstances shall the racks contact the raceway system, the steel structure of the building or ventilation ducts.
 - b. All ground cables shall be insulated, especially if the cable is enclosed in a conduit or has any possibility of contact with metallic boxes or a conduit system.

- c. The system ground copper conductor must not touch any metallic object or device between the main building electrical ground point, and the audio racks. Similarly, with any extension of this ground, to the stage manager panel or other audio panel, caution must be observed to preserve the audio system ground potential by insulating the ground wire at all times.
- d. Under no conditions shall the AC neutral conductor, at any location, be used for a system ground.
- 3. Audio Cable Shields
 - a. All audio cable shields shall be connected to signal ground terminal on respective equipment at one point only; there shall be no exceptions.
 - b. For both inter-rack and intra-rack wiring, each cable shield be connected at the input of devices/equipment only. Shields shall not be connected (floated) at the outputs of devices/equipment.
 - c. For ungrounded portable equipment, such as microphones, the shield shall be connected at both ends but connected to signal ground at one end only (input of device/equipment).
 - d. Do not connect cable shields to metallic balanced connector shells or housings.
 - e. Equipment chassis grounds shall not be connected with signal grounds unless specifically required to eliminate system noise caused by an individual piece of equipment.
- 4. There shall be no deviations from the above unless specifically required by the manufacturer of the equipment or when necessary to minimize crosstalk and to maximize signal-to-noise ratios in the audio, video, and control systems.
- 5. If a different installation practice is desired by the Installing Contractor in regards to the signal grounding, the Installing Contractor may submit alternate grounding methods to the Engineer for approval. Installing contractor shall bear all responsibility for any deviations from the above stated grounding procedure, even if allowed by the Owner or Engineer

N. CONTROL SYSTEM INSTALLATION

1. The Installing Contractor shall provide all touchpanel, button panel, and control system programming.

- 2. The Installing Contractor shall have all programming performed by a staff Level 2 programmer or contract the services of an approved Independent Programmer.
- 3. All touchpanel layouts shall be provided to the Engineer and Owner's representative as an executable file for review of function and design before the Control System programming is implemented.
- 4. The Engineer and Owner's representative shall review the touchpanels for confirmation of function and acceptable overall design. Either party may request changes in overall layouts, colors, text fonts, or other aspects of the design. Such changes shall be incorporated into the touchpanel layouts by the Installing Contractor without claim for additional payment.
- 5. If the Touchpanel layouts are deemed unacceptable by the Engineer or Owner's Representative, the Installing Contractor shall take whatever means necessary to provide acceptable programming without claim for additional payment.
- 6. All uncompiled programming code and touchscreen designs shall be written to USB flash media in native digital file format, turned over to the Owner, and become the intellectual property of the Owner at the completion of the project.
- O. Following installation and system "turn-up", but prior to final acceptance of the system, Contractor shall conduct follow-up interviews with Owner identified administrators and staff to review system functionality, suitability and confirm feature and program fitness for Owner applications.
 - 1. Follow-up interviews shall be fully documented by Contractor and submitted to Owner for approval.

2.03 TESTING

- A. In an effort to ensure a smooth "turn-up" of the new system Contractor shall submit to a thorough testing process as defined herein prior to cut-over.
- B. Prior to requesting testing by Designer, the Contractor shall use adequate means to assure the Work is completed in accordance with the specified requirements, meets the owner's specific application requirements and is ready for functionality and integrity testing.
- C. Testing Procedures
 - 1. Prior to system "turn-up", Contractor shall submit a written request and proposed test plan to Designer indicating they have completed full and final configuration of the system and are ready to have system integrity and functionality tested.

- 2. Within reasonable time after receipt of request, Designer will accept or revise the proposed test plan, provide a test schedule and coordinate testing date(s) with Owner and Contractor.
- 3. Should Designer determine the Work is not acceptably configured or not of adequate integrity:
 - a. Designer promptly will so notify Contractor, giving reasons therefore and providing sufficient details to allow Contractor to make corrective actions.
 - b. Contractor shall then expeditiously remedy the deficiencies and notify Designer in writing when ready for re-testing.
 - c. Designer will schedule re-test of the Work.
 - d. Excessive re-testing of Work may result in fees being assessed Contractor.
- 4. Should Designer and Owner concur the Work is configured properly, and system integrity is as required:
 - a. Designer will review Contractors detailed "turn-up" plan, and upon finding it acceptable issue a memorandum of Testing Completion to Owner and Contractor after which system "turn-up" can proceed.

2.04 DOCUMENTATION

- A. Contractor shall, throughout the completion of the project, provide Owner a file storage system that shall include all necessary equipment, including if reasonably required, file drawers, folders, dividers, etcetera, to contain all asbuilt drawings, owner's manuals of all equipment installed, warranty and maintenance information and other information the Contractor, Designer and/or Owner deem necessary. Documentation shall also be provided in a digital format in file formats and on media as specified by Owner and/or Designer.
- B. Contractor shall be responsible for providing thorough, timely documentation on all hardware, software. Documentation shall include, but not be limited to:
 - 1. Equipment description.
 - 2. Equipment make.
 - 3. Model number.
 - 4. Software release.
- 5. Date installed.
- 6. Location installed.
- 7. Manufacturer's warranty.
- 8. Maintenance contract terms.
- 9. Verification of maintenance contract engagement.
- 10. Telephone numbers for service and support.
- 11. Detailed technical support and service procedure instructions.
- 12. All product (hardware and software) manuals and manufacturer supplied documentation, including, but not limited to owner manuals, system administrator manuals and configuration guides. Where number of duplicate copies for particular manual or documentation item could be reasonably considered excessive, Contractor shall request direction from Owner and Designer.
- 13. Photocopy of original invoice listing make and model for all components and equipment from individual manufacturer(s), distribution source(s), or authorized agent(s) to establish manufacturer warranty start date for potential use after end of contract warranty provisions.
- 14. CAD or Visio as built drawings/diagrams for each building.
- 15. System Configuration Report.
- 16. Complete inventory of installed hardware and system software including, but not be limited to, model numbers, Ethernet MAC address, serial numbers, physical installation location and software options.
- 17. A copy of all DSP settings shall be written to USB flash media in native digital file format and placed in the rack that houses the respective DSP after the completion and acceptance of all work and testing. All DSP configuration/programming shall become intellectual property of the Owner at the completion of the project.

2.05 TRAINING

A. No training shall be conducted prior to training outline and/or syllabus being approved by Owner, Instructional or overview activities conducted without prior content approval with not be deemed contract training, and Contractor shall remain responsible for delivery of approved training.

- B. Contractor shall provide training for the Owner designated system administrator(s). Training shall be a minimum of one (1), one (1) hour session in length, at the convenience of the Owner personnel, and of sufficient duration to satisfactorily complete training on all system administration functions including, but not limited to:
 - 1. Basic trouble shooting of the installed system and components including diagnostic and problem resolution actions.
 - 2. System back-up and restore functions and procedures for all system parameters and configurations.
 - 3. Device additions moves and changes as well as reconfiguration.
 - 4. Review of system alerts, logs and monitoring of configuration parameters including, but not limited to and system configuration changes.
- C. Contractor shall provide end user training for classroom instructors district wide via the development of video training segments to be posted on an internal website for distribution. Training shall be available prior to substantial completion. End user video training segments shall include, but not limited to the following:
 - 1. System power up and power down.
 - 2. Source selection.
 - 3. Volume control.
 - 4. Voice amplification use.
 - 5. Document camera operation.
 - 6. System care and classroom maintenance best practices.
 - 7. Equipment cart relocation and adjustments.
 - 8. Screen operation and care.
 - 9. Problem reporting.

2.06 SCHEDULE, MEETINGS AND PLANS

- A. Schedule:
 - 1. Post bid Interviews: Week of October 23, 2023
 - 2. Contractor Chosen: Week of November 13, 2023

- 3. Work Commences: Subsequently following Board Approval and issuance of Purchase Order.
- 4. Substantial Completion of Project: March 30, 2024
- 5. Project Close-out: August 1, 2024
- B. Planned sequence of operations shall be established by the Contractor within the guidelines established by the Owner, as required herein and as required to meet schedules.
- C. All work shall be coordinated with Owner's construction manager on site.
- D. Project progress meetings shall be held, but not limited to, weekly at a site and time identified as convenient for Owner and as required herein. Meetings will be attended as required herein.

END OF SECTION

Section 27 41 16 – Multimedia System - Drawings

TYPICAL PROJECTOR SYMBOL —



UNIT C

UNIT B





UNIT 'A' POWER & COMMUNICATION PLAN

E2.1A



UNIT B KEYPLAN

UNIT C





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UNIT 'B' POWER & COMMUNICATION PLAN



Section 27 41 16 – Multimedia System - Drawings

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UNIT 'C' POWER & COMMUNICATION PLAN





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UNIT B

KEYPLAN

UNIT D

UNIT 'C' POWER & COMMUNICATION PLAN



Section 27 41 16 – Multimedia System - Drawings

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UNIT 'D' POWER & COMMUNICATION PLAN





UNIT 'D' POWER & COMMUNICATION PLAN





CLASSROOM AUDIO-VIDEO SYSTEM RISER DIAGRAM







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GENERAL FLOOR PLAN NOTES:

- 1. DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS. 2. REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION.
- 3. INTERIOR STUD WALLS ARE TO USE 3 5/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED.
- 4. TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED OTHERWISE.
- 5. SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR.) 6. EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE.
- 7. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED
- INCLUDING NECESSARY FRAMING, BLOCKING, ETC. 8. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINETRY, FRAMES, STRUCTURAL ITEMS, ETC.
- PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL CONTRACTOR / SITE SUPERVISOR.
- 10. COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS, DRAIN LEADERS, PIPING, ELECTRICAL PANELS, ETC. WHERE WALLS REQUIRE EXTRA WIDTH THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
- 11. ALL GUARDRAILS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE 2015 M.B.C., ANSI ICC A117.1-2009 & AMERICANS WITH DISABILITIES ACT GUIDELINES. THE MOST STRINGENT SHALL PREVAIL.
- 12. PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE G0.01 FOR REQUIREMENTS.
- 13. FOR ALL CABINETRY, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION. 14. ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE - UNLESS NOTED OTHERWISE.
- 15. CONTRACTOR TO MAINTAIN / REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION / NEW
- CONSTRUCTION. TYPICAL THROUGHOUT. 16. SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.
- 17. WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR LINTELS CONDITIONS PER SPECIFICATIONS.
- 18. WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL AND REINSTALLATION OF CASEWORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SAID PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING. AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH ARCHITECT.
- 19. SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING (FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS): A. ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48. B. ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48. C. ALL INTERIOR NON-BEARING WALLS OVER 16'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48.



-FIRE RATINGS AS CALLED FOR ON CODE COMPLIANCE PLAN -DIMENSIONS GIVEN ARE TO THE FINISHED FACE OF CMU OR GYPSUM WALL BOARD UNLESS NOTED OTHERWISE



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ISSUANCES 09.16.2021 BIDS & CONSTRUCTION 10.07.2021 ADDENDUM 001 03.15.2022 BULLETIN 003 03.31.2022 BULLETIN 004

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PROJECT NO.

UNIT C

UNIT B

KEYPLAN

5-4922

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UNIT 'A' FLOOR PLAN

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- 11. ALL GUARDRAILS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE 2015 M.B.C. , ANSI ICC A117.1-2009 & AMERICANS WITH DISABILITIES ACT GUIDELINES. THE MOST STRINGENT SHALL PREVAIL.
- FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS, DRAIN LEADERS, PIPING, ELECTRICAL PANELS, ETC. WHERE WALLS REQUIRE EXTRA WIDTH THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
- CONTRACTOR / SITE SUPERVISOR. 10. COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE
- 9. PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL
- 8. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINETRY, FRAMES, STRUCTURAL ITEMS, ETC.

GENERAL FLOOR PLAN NOTES:

OTHERWISE.

- INCLUDING NECESSARY FRAMING, BLOCKING, ETC.
- 6. EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE.

1. DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS.

2. REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION.

3. INTERIOR STUD WALLS ARE TO USE 3 5/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED.

- 5. SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR.)

4. TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED

- 16. SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.

 - 17. WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR
 - LINTELS CONDITIONS PER SPECIFICATIONS.

- 7. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED

13. FOR ALL CABINETRY, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION. 14. ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO 15. CONTRACTOR TO MAINTAIN / REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION / NEW

12. PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE G0.01 FOR REQUIREMENTS.

A. ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48.

RECEIVE TILE - UNLESS NOTED OTHERWISE.

CONSTRUCTION. TYPICAL THROUGHOUT.

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18. WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL AND REINSTALLATION OF CASEWORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SAID PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING. AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH 19. SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING (FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS) :

ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48.
 ALL INTERIOR NON-BEARING WALLS OVER 16'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48.



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UNIT 'B' FLOOR PLAN









WALL LEGEND



-FIRE RATINGS AS CALLED FOR ON CODE COMPLIANCE PLAN -DIMENSIONS GIVEN ARE TO THE FINISHED FACE OF CMU OR GYPSUM WALL BOARD UNLESS NOTED OTHERWISE

GENERAL FLOOR PLAN NOTES:

- 1. DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS.
- REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION.
- 3. INTERIOR STUD WALLS ARE TO USE 3 5/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED.
- 4. TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED OTHERWISE.
- 5. SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR.)
- 6. EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE.
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- 8. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINETRY, FRAMES, STRUCTURAL ITEMS, ETC. 9. PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT
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- PREVAIL.
- 12. PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE G0.01 FOR REQUIREMENTS. 13. FOR ALL CABINETRY, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION.
- 14. ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE - UNLESS NOTED OTHERWISE.
- 15. CONTRACTOR TO MAINTAIN / REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION / NEW CONSTRUCTION. TYPICAL THROUGHOUT.
- 16. SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING. 17. WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR
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- ARCHITECT. 19. SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING (FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS) : A. ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48.
- ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48.
 ALL INTERIOR NON-BEARING WALLS OVER 16'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48.



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PROJECT NO.

UNIT B

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UNIT 'C' FLOOR PLAN

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GENERAL FLOOR PLAN NOTES:

- 1. DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS.
- 2. REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION. 3. INTERIOR STUD WALLS ARE TO USE 3 5/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED.
- 4. TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED
- OTHERWISE. 5. SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR.)
- 6. EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE.
- 7. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED INCLUDING NECESSARY FRAMING, BLOCKING, ETC.
- 8. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINETRY, FRAMES, STRUCTURAL ITEMS, ETC.
- 9. PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL CONTRACTOR / SITE SUPERVISOR.
- 10. COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS, DRAIN LEADERS, PIPING, ELECTRICAL PANELS, ETC. WHERE WALLS REQUIRE EXTRA WIDTH THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
- 11. ALL GUARDRAILS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE 2015 M.B.C., ANSI ICC A117.1-2009 & AMERICANS WITH DISABILITIES ACT GUIDELINES. THE MOST STRINGENT SHALL PREVAIL.
- 12. PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE G0.01 FOR REQUIREMENTS. 13. FOR ALL CABINETRY, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION.
- 14. ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE - UNLESS NOTED OTHERWISE.
- 15. CONTRACTOR TO MAINTAIN / REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION / NEW CONSTRUCTION. TYPICAL THROUGHOUT.
- 16. SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.
- 17. WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR LINTELS CONDITIONS PER SPECIFICATIONS.
- 18. WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL AND REINSTALLATION OF CASEWORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SAID PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING. AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH ARCHITECT.
- SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING (FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS):
 A. ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48.
 B. ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48.
 C. ALL INTERIOR NON-BEARING WALLS OVER 16'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48.

	WALL LEGEND
	5/8" GYP. BOARD BOTH SI METAL FRAMING AT 16" O FULL HEIGHT OF WALL, W OF DECK UNLESS NOTED
NAN 27 1/4"	5/8" GYP. BOARD BOTH SI METAL FRAMING AT 16" O FULL HEIGHT OF WALL. W OF DECK UNLESS NOTED
	CMU WALL SEE FLOOR PI WALL REINFORCING. NO GIVEN (8" TYPICAL U.N.O.)
	BRICK AND CMU WALL W. INSULATION SEE FLOOR I WALL REINFORCING. NON GIVEN. SEE WALL SECTION DETAILS, BANDING, ETC.
	CONCRETE WALL SEE ST PLANS FOR REQUIRED RI

-FIRE RATINGS AS CALLED FOR ON CODE COMPLIANCE PLAN -DIMENSIONS GIVEN ARE TO THE FINISHED FACE OF CMU OR GYPSUM WALL BOARD UNLESS NOTED OTHERWISE

DES 3 5/8" LIGHT GA. O.C. SOUND BATT WALLS TO BOTTOM O OTHERWISE

DES 6" LIGHT GA. D.C. SOUND BATT VALLS TO BOTTOM O OTHERWISE

LANS FOR REQUIRED MINAL DIMENSIONS

// 2" SPRAY APPLIED PLANS FOR REQUIRE OMINAL DIMENSIONS TIONS FOR ADDITIONAL YPICAL U.N.O.)

TRUCTURAL EINFORCING.



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PROJECT NO.

UNIT C

UNIT B

5-4922

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UNIT 'D' FLOOR PLAN



ACTIVITY	LINE WIDTH	PRIORITY
MAIN BASKETBALL	2"	1st
MAIN VOLLEYBALL	2" 1"	2nd 3rd
OVERALL COURT SIZES:		
BASKETBALL	 40' x 60'	
ALL VOLLEYBALL	26' x 50'	







6' - 4"

7' - 4"

- E

10' - 10"





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UNIT C

UNIT D

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UNIT 'A' REFLECTED CEILING PLAN

A3.1A



UNIT 'B' REFLECTED CEILING PLAN

GENERAL CEILING NOTES:

- CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
- 2. CEILING TILE TYPE AS SPECIFIED- CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR.
- 3. WIRE CEILING FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS AND CEILING DIFFUSERS.
- 4. UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL TEE AND ACOUSTICAL TILE 2'-0"x 2'-0" OR 2'-0"x 4'-0" TYPICAL. SEE SPECIFICATIONS FOR MANUFACTURER AND STYLE.
- 5. PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT AND SUPPORTED ON EACH SIDE.
- 6. MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A RIGID PANEL BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
- 7. PROVIDE 2'-0" CEILING GRID CROSS-TEE AT EACH RETURN AIR GRILLE.
- 8. PROVIDE AN ADDITIONAL CROSS-TEE AT EACH SLOT DIFFUSER.
- 9. REFER TO THE MECHANICAL DRAWINGS FOR LOUVERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS. 10. ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS - COORDINATE CHANGES WITH
- ARCHITECT & AFFECTED DISCIPLINES.
- 11. SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING

CEILING LEGEND

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CONSTRUCTION

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UNIT 'B' REFLECTED CEILING PLAN

A3.1B





- 6. MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A RIGID PANEL BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
- 7. PROVIDE 2'-0" CEILING GRID CROSS-TEE AT EACH RETURN AIR GRILLE.

- 8. PROVIDE AN ADDITIONAL CROSS-TEE AT EACH SLOT DIFFUSER.
- 9. REFER TO THE MECHANICAL DRAWINGS FOR LOUVERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS.
- 10. ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS COORDINATE CHANGES WITH
- ARCHITECT & AFFECTED DISCIPLINES.

GENERAL CEILING NOTES:

ARCHITECT.

LAYOUT.

- 11. SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING

1. CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE 2. CEILING TILE TYPE AS SPECIFIED- CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR. 3. WIRE CEILING FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS AND CEILING DIFFUSERS. UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL TEE AND ACOUSTICAL TILE 2'-0"x 2'-0" OR 2'-0"x 4'-0" TYPICAL. SEE SPECIFICATIONS FOR MANUFACTURER AND STYLE.

5. PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT AND SUPPORTED ON EACH SIDE.

CEILING LEGEND

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UNIT 'C' RELFECTED CEILING PLAN





GENERAL CEILING NOTES:

- 1. CONTRACTOR SHALL FOLLOW GRID PATTERN ESTABLISHED ON THE REFLECTED CEILING PLAN. ANY VARIATIONS SHALL BE APPROVED BY THE ARCHITECT.
- 2. CEILING TILE TYPE AS SPECIFIED- CEILING HEIGHTS NOTED ON REFLECTED CEILING PLANS. CEILING ELEVATIONS ARE FROM THAT ROOM'S FINISH FLOOR.
- 3. WIRE CEILING FROM STRUCTURE ABOVE AND WIRE FOR ADDITIONAL LOAD AT LIGHTS AND CEILING DIFFUSERS.
- UNLESS OTHERWISE NOTED, CEILING TO BE SUSPENDED METAL TEE AND ACOUSTICAL TILE 2'-0"x 2'-0" OR 2'-0"x 4'-0" TYPICAL. SEE SPECIFICATIONS FOR MANUFACTURER AND STYLE.
- 5. PENDANT MOUNTED FIXTURES CENTERED ON GRID REQUIRE GRID TO BE CUT AND SUPPORTED ON EACH SIDE.
- MOUNT SPEAKERS AND SUPPLY AIR DIFFUSERS IN THE CENTER OF WHOLE CEILING PANELS. ADHERE A RIGID PANEL BACKER TO PANELS AT LOCATIONS WHICH INDICATE SPEAKERS, DIFFUSERS, LIGHTS, SMOKE DETECTORS, EXIT LIGHTS AND FIRE PROTECTION SPRINKLERS.
- 7. PROVIDE 2'-0" CEILING GRID CROSS-TEE AT EACH RETURN AIR GRILLE.
- 8. PROVIDE AN ADDITIONAL CROSS-TEE AT EACH SLOT DIFFUSER.
- 9. REFER TO THE MECHANICAL DRAWINGS FOR LOUVERS REQUIRED TO BE FRAMED IN GYPSUM BOARD BULKHEADS.
- 10. ALL CEILING HEIGHTS ARE SUBJECT TO CHANGE TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS COORDINATE CHANGES WITH ARCHITECT & AFFECTED DISCIPLINES.
- 11. SOME CORRIDOR CEILING PANEL LAYOUTS HAVE BEEN ADJUSTED AT A CHANGE IN CORRIDOR DIRECTION TO ACCOMMODATE LIGHTING LAYOUT.

	CEILING LEGEND
77777777	
	DIRECT EXTERIOR FINISH S
	GYPSUM BOARD CEILING
	PRE FINISHED VENTED METAL SOFFIT
	RECESSED 2x4 LIGHT FIXTU
	RECESSED 1x4 LIGHT FIXTU
Ø	RECESSED LIGHT FIXTURE
	SURFACE / PENDANT MOUN
\bigcirc	PENDANT MOUNT FIXTURE
0	SURFACE MOUNT FIXTURE
	SURFACE / PENDANT MOUN
	FIXTURE IS DESIGNATED FO EMERGENCY OPERATION
\bigotimes	SINGLE FACE EXIT SIGN
	DOUBLE FACE EXIT SIGN
Ø	WALL-MOUNTED EXIT SIGN
	OCCUPANCY SENSOR
\bigtriangledown	FIRE ALARM - VISUAL
	FIRE ALARM - AUDIO/VISUAL
	ALUMINUM SOFFIT
S	PA SPEAKER
S	SMOKE DETECTOR
	SUPPLY GRILLE / DIFFUSER
	RETURN GRILLE / DIFFUSER
	SLOT DIFFUSER
	MECHANICAL EQUIPMENT
A	ACCESS DOOR
	CONTINUOUS SOFFIT VENT
	SOFFIT GRILLE (8x16 U.O.N.)
C.J.	CONTROL JOINT
	CUT TILE

UNIT A UNIT B UNIT C

NISH SYSTEM NG FIXTURE FIXTURE

TURE MOUNT FIXTURE

TURE MOUNT FIXTURE

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UNIT 'D' RELFECTED CEILING PLAN









5 UNIT 'A' EAST ELEVATION A4.1A 1/8" = 1'-0"







UNIT 'A' EXTERIOR ELEVATIONS

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A4.1A













1 UNIT 'C' EAST ELEVATION A4.1C 1/8" = 1'-0"

BRICK A-







ACM PANEL







































2 UNIT 'D' SOUTH ELEVATION A4.1D ^{1/8" = 1'-0"}





KEYPLAN

UNIT A 🔪





UNIT C UNIT B







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A8.01









PAINTED CMU PLAM CTOP, NO BSPLASH	/						
PLAM BASE CABINETS							
	B3634	B3634	B3634	B3034	B3034		
(10) A1291	D. KINDE	ERGAR	TEN SC	DUTH			

		EXIT	









9

A8.01

1/4" = 1'-0"

-SOLID SURFACE CTOP

SOLID SURFACE WATERFALL END PANEL

-METAL LOCKERS

RUBBER BASE, ALL SIDES

UNIT 'A' LOCKERS SOUTH-EAST

W1540

B1524 30D

B4224 30D

A134 D.KINDERGARTEN WEST

18 A8.01

SB3924 ADA, 30D

F

PAINTED CMU-

PLAM CTOP/SPLAS

PLAM CABINETS-

RUBBER BASE-

(15 (A8.01)



-PAINTED CMU

------ PLAM CTOP, NO BSPLASH

-RUBBER BASE







3' - 7"

B4234

A126 D. KINDERGARTEN SOUTH

3' - 7"

B3634

3' - 7"

B3634 B4234 F



(17 (A8.01)

1/4" = 1'-0"

A8.01

1/4" = 1'-0"





W1840 W3040 W4240

B1824B3024B4224T3388F30D30D30D30D

A129 D. KINDERGARTEN WEST

PLAM MOBILE CASES -

SEE FLOOR PLAN

PLAM UPPER CABINETS-

PLAM CTOP/SPLASH-

PLAM BASE CABINETS -

RUBBER BAS

(11) (A8.01)

AINTED CMU

PLAM CTOP/SPLASH

W3940

1/4" = 1'-0"





-SOLID SURFACE CTOP

FILLER PANEL

-METAL LOCKERS

RUBBER BASE

I welcome to the VVO(

UNIT 'A' LOCKERS NORTH-WEST



TEACHER WARDROBE SIM TO A134-

A130 GROUP AREA SOUTH

(13 (A8.01)

1/4" = 1'-0"



-PAINT

-PAINTED BULKHEAD

PAINTED CMU

W2740

B2724

W3940

SB3924 ADA,

EXIT

-PLAM UPPER CABINETS

-PLAM CTOP/SPLASH

-PLAM BASE CABINETS RUBBER BASE



CABINETS



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INTERIOR ELEVATIONS

A8.01









1/4" = 1'-0"

	F.V	V3930	W3030	≬ ₩	1530 F
NOTE: PROVIDE LOCKS FOR ALL CABINETS					
PLAM UPPER CABINETS					
PLAM CTOP/SPLASH					
	\langle		= = =		
RUBBER BASE	1	¥	\downarrow		
	FS	B3934 ADA	B3334	F	

5 B112 HEALTH NORTH A8.02 ^{1/4" = 1'-0"}

CABINETS		
24" X 36" MIRROR		
PLAM CTOP/SPLASH		
PLAM BASE CABINETS RUBBER BASE	U.C.REF B.O. BACE	
	F SB3934 ADA	B3934
4 E	3103 MOTHER'S NORTH	1

W3930

PAINT

PLAM UPPER CABINETS

PAINTED CMU	E W2218	W2224	W2024	W/4520	W2620	W2620	W2620	W(1020
PLAM UPPER CABINETS —								
COFFEE MAKER B.O.	REF. B.O.	- +/						
PLAM CTOP/SPLASH								
RUBBER BASE				B.O. —				
	3' - 0 1/2" V.I.F.	B3334	SB3934 _ ADA _	2'-0" B2134 CLEAR	B3634	B3634	B3634	B1834

PAINTED CMU F W3930		1	
PLAM UPPER CABINETS			
CTOP/SPLASH			
F SB3934 ADA, 30D	B3034 B3034 B3034 B3034 30D 30D 30D 30D	T3388	
9 B121 A8.02 ^{1/4" = 1'-}	OFFICE/WORK WEST	8 A8.02	A114 KINDERGARTEN NC

3 B101 LOUNGE EAST A8.02 1/4" = 1'-0"









			-	7-	-PAINTED CMU
F	W3630	W3930	W3930 F		-PLAM UPPER CABINETS
					-PLAM CTOP/SPLASH
					PLAM BASE CABINETS RUBBER BASE
	F B2434	B3934	B3934	F	
_					

2 B102 WORK WEST A8.02 1/4" = 1'-0"

		-0- -, -, -,				
T3688	T3688	B3634	B1834 B1834	B3634	B3634	B1534 I



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——PLAM MOBILE CASES

EXPOSED CEILING AREA- SEE RCP
CEILING CLOUD

----- PAINTED GWB BULKHEAD -PAINTED CMU

-RUBBER BASE





PAINT

-PLAM UPPER CABINETS

-PLAM CTOP/SPLASH

-PLAM CABINETS

ELEMENTARY NEW

SCHOOL PUBLIC ROCKFORD

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INTERIOR ELEVATIONS













1 A8.03



ELEMENTARY

-RUBBER BASE

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INTERIOR ELEVATIONS





2 B151 CA A8.04 1/4" = 1'-0"

B151 CAFETERIA SOUTH (PARTIAL)

1 A8.04









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A8.04









D GWB BULKHEAD G GLASS DOORS	PAINT- SEE FINISH PLAN	DIMENSIONAL LETTER SIGNAGE AT EACH LOCATION- SEE SPEC.
	P1-	
PLAY CASE	RUBBER BASE	

1 B123 LEARNING COMMONS SOUTH A8.05 1/4" = 1'-0"





 EXPOSED PAINTED DECK AND STEEL
PAINTED GWB
BULKHEAD
VINYL WALLCOVERING- SEE FINISH PLAN
 FREESTANDING SHELVING B.O.
 PAINT- SEE FINISH PLAN
 RUBBER BASE



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INTERIOR ELEVATIONS



Renderings_K-1 Neighborhood



04.07.2021 ROCKFORD PUBLIC SCHOOLS



Renderings - DK Extended Learning_3





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Renderings - DK Extended Learning_3

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04.07.2021 ROCKFORD PUBLIC SCHOOLS



Renderings - DK Extended Learning_3













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INTERIOR RENDERINGS





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Renderings_2-3 Neighborhood_2



Renderings_4-5 Neighborhood_7



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Renderings_2-3 Neighborhood_2









Renderings_2-3 Neighborhood_2









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INTERIOR RENDERINGS













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A8.11

3/8" = 1'-0"

DUNES EAST ELEVATION



LAKES WEST ELEVATION













WOODLAND WEST ELEVATION 3/8" = 1'-0"









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-PAINTED GRAPHICS ON CMU

-PAINT ON CMU (P8)

- VINYL GRAPHICS APPLIED TO CMU- PROVIDE ALLOWANCE FOR ALL AREAS OF PROJECT, TYP.

VINYL GRAPHICS APPLIED TO CMU- PROVIDE ALLOWANCE FOR ALL AREAS OF PROJECT, TYP.

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INTERIOR ELEVATIONS ELA









	FINISH L	EGEND :	
ACT1	ACOUSTICAL CEILING TILE (DISTRICT STANDARD) MANF: ARMSTRONG STYLE: TUNDRA BEVELED TEGULAR COLOR: WHITE	PL4	PLASTIC LAMINATE MANF: WILSONART COLOR: ATLANTIS D25 FINISH: 60 MATTE
ACT2	SIZE: 2'X2' ACOUSTICAL CEILING TILE (KITCHEN) MANF: ARMSTRONG STYLE: KITCHEN ZONE	PL5	PLASTIC LAMINATE MANF: FORMICA COLOR: VIBRANT GREEN 6901 FINISH: 58 MATTE
ACT 3	SIZE: 2'X2'	PL6	PLASTIC LAMINATE MANF: WILSONART COLOR: ORANGE GROVE D501
	MANF: ARMSTRONG STYLE: CALLA COLOR: KIWI (STANDARD) SIZE: 2'X2' NOTE: UNCLUDE CUSTOM COLOR REPIMETER TRIM FOR ALL CEILING	PL7	FINISH: 60 MATTE PLASTIC LAMINATE MANF: NEVAMAR COLOR: SUNDAY S4022T
ACT 4	VOIDS ACOUSTICAL CEILING TILE	PL8	PLASTIC LAMINATE- DECORATIVE METALS MANF: WILSONART
	MANF: ARMSTRONG STYLE: ULTIMA BEVELED TEGULAR COLOR: WHITE SIZE: 1'X4'	RB1	COLOR: SATIN BRUSHED SMOKE ALUMINUM RUBBER BASE MANF: JOHNSONITE STYLE: COVE
ACT5	ACOUSTICAL CEILING TILE MANF: ARMSTRONG STYLE: GRID ONLY, NO TILE COLOR: KIWI (STANDARD)	RES1	COLOR: GRAY #48 SIZE: 4" RESINOUS FLOORING SYSTEM
AF1	SIZE: 2'X2' ARCHITECTURAL FINISH FILM MANF: 3M/DESIGNTEX ARCHITECTURAL DINOC FILM		MANF: STONHARD STYLE: STONCLAD UT W/ STONKOTE HT4 TOPCOAT COLOR: TO BE SELECTED FROM MANF. FULL RANGI TEXTURE: LIGHT
AF2	STYLE/COLOR: FINE WOOD FW-1981 ARCHITECTURAL FINISH FILM MANF: 3M/DESIGNTEX ARCHITECTURAL DINOC FILM STYLE/COLOR: FINE WOOD FW 1307	RAF1	NOTE: PROVIDE INTEGRAL COVE BASE 4" HIGH RESILIENT ATHLETIC FLOORING - MULTIPURPOSE F MANF.: TARKETT STVI E: OMNISPORT
AWP1	NOT USED	SC1	COLOR: GOLDEN MAPLE SEALED CONCRETE
AWP2	ACOUSTICAL WALL PANEL MANF: ARMSTRONG STYLE: TECTUM COLOR: PAINTED: REFER TO INTERIOR ELEVATIONS	SSM1	REFER TO SPECIFICATIONS FOR SYSTEM SOLID SURFACE MATERIAL (SILLS) MANE: CORIAN
CT1	CARPET- 6' ROLL (WALK OFF) MANF: TANDUS	SSM2	COLOR: WHITE JASMINE SOLID SURFACE MATERIAL
CT2	STYLE: ASSERTIVE ACTION/ COLOR: STEELWORK CARPET- 6' ROLL MANF: TANDUS	SSM3	MANF: WILSONART COLOR: BROOKLYN CONCRETE SOLID SURFACE MATERIAL
CT3	STYLE: CARTOGRAPHY/ COLOR: PARCHMENT CARPET- 6' ROLL	TP1	MANF: WILSONART COLOR: CHILLED EARTH
CT4	STYLE: FREELANCE/ COLOR: UNIVERSAL ELEMENT		MANF: FORBO COLOR: OYSTER NOTE: PROVIDE EDGE TRIM AT EXPOSED EDGES
CT5	MANF: TANDUS STYLE: FREELANCE/ COLOR: GREEN ENVY CARPET- 6' ROLL	TB2	TACKABLE BULLETIN BOARD ROLL MANF: FORBO COLOR: BLUEBERRY
010	MANF: TANDUS STYLE: FREELANCE/ COLOR: CUSTOM COLOR STRIKEOFF REFERENCE #S: #112161921-30, #112161921-40, #112161921-50	TB3	NOTE: PROVIDE EDGE TRIM AT EXPOSED EDGES
CT6	CARPET- 6' ROLL MANF: TANDUS STYLE: FABRICATE/ COLOR: ARUGULA		MANF: FORBO COLOR: LETTUCE NOTE: PROVIDE EDGE TRIM AT EXPOSED EDGES
CT7	CARPET- 6' ROLL MANF: TANDUS	TB4	TACKABLE BULLETIN BOARD ROLL MANF: FORBO COLOR: TANGERINE
CT8	STYLE: FREELANCE/ COLOR: SALT LAKE CARPET- 6' ROLL MANF: TANDUS	TB5	NOTE: PROVIDE EDGE TRIM AT EXPOSED EDGES TACKABLE BULLETIN BOARD ROLL MANF: FORBO
CT9	STYLE: SQUARE UP/ COLOR: COOLWATER CARPET- 6' ROLL MANE: TANDUS	VWC1	COLOR: FRESH PINEAPPLE NOTE: PROVIDE EDGE TRIM AT EXPOSED EDGES
CT10	STYLE: CARTOGRAPHY/ COLOR: SEA LEVEL CARPET- 6' ROLL	WOI	MANF: GRAVITY DIGITAL WALLS PATTERN: CUSTOM OF SONGBIRDS SUNSHINE (G2- BIRDS
CT11	MANF: TANDUS STYLE: FREELANCE/ COLOR: JACK'S RIVER CARPET- 6' ROLL	VWC2	REFERENCE #: GR10396, VCC020821 COLOR: CUSTOM COLORS USING P1, P2, P3 AND P4 VINYI WALL COVERING- CUSTOM DIGITALLY PRINTI
	MANF: TANDUS STYLE: FABRICATE/ COLOR: FRENCH NAVY	11102	MANF: LEVEL DIGITAL WALLCOVERINGS PATTERN: CUSTOM OF BLUESTEM GARDEN- CITROI REFERENCE #: 4W14640, VCC011421
CT12	CARPET- 6' ROLL MANF: TANDUS STYLE: FREELANCE/ COLOR: HARBOR LIGHTS	VWC3	COLOR: CUSTOM COLORS USING P1, P2, P3, P4, P9, WILLIAMS DORIAN GRAY SW7017 COLOR MATC VINYL WALL COVERING- CUSTOM DIGITALLY PRINTI
MF1 P1	MECHANICAL FLOOR SYSTEM- SEE SPECIFICATION 09 97 23 PAINT (GENERAL DISTRICT STANDARD)		MANF: LEVEL DIGITAL WALLCOVERINGS PATTERN: CUSTOM OF WOODLAND WONDERLAND- REFERENCE #: 4W14640, VCC021621 COLOP: CUSTOM COLOPS USING P1 P2 P5 P8 P0
P2	COLOR: CHANTILLY LACE OC-65 PAINT (TRIM)	WD1	COLOR MATCHES. BALTIC BIRCH PLYWOOD W/ CLEAR FINISH- SEE FIN
P3	MANF: SHERWIN WILLIAMS COLOR: DOVETAIL SW7018 PAINT (ACCENT)		
P4	MANF: SHERWIN WILLIAMS COLOR: MINDFUL GRAY SW4016 PAINT (ACCENT)		
P5	MANF: SHERWIN WILLIAMS COLOR: REPOSE GRAY SW7015 PAINT (ACCENT)	2. IT IS THE	ERUBBER BASE; U.N.O. ON FINISH PLANS. E RUBBER BASE; U.N.O. ON FINISH PLANS. E RESPONSIBILITY OF ALL TRADES TO COORDINATE P DES TO RECEIVE FINISH PRODUCT. CONSULT WITH MA
P6	MANF: BENJAMIN MOORE COLOR: VAN DEUSEN BLUE HC-156 PAINT (ACCENT)	RECOM 3. ALL REE	MENDED PRACTICES. DUCERS TO COORDINATE APPROPRIATELY WITH ABUT
	MANF: SHERWIN WILLIAMS COLOR: BLUE PLATE SW6796	4. INSTALL CASEW0	. 4" H. RUBBER BASE (RB) AT CASEWORK TOE KICKS, I ORK, AND VERTICAL SUPPORTS.
P7	MANF: SHERWIN WILLIAMS COLOR: LAKESHORE SW6494	5. SEE SPE 6. PAINT A PAINT T	ECIFICATIONS FOR RESILIENT ACCESSORY INFORMAT ILL EXPOSED MECHANICAL AND ELECTRICAL ITEMS IN O MATCH ADJACENT SURFACES; U.N.O.
P8	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: QUENCH BLUE SW6785	 7. HM DOC 8. EXPOSE 	DRS, FRAMES AND WINDOW FRAMES TO BE PAINTED P
P9	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: GECKO SW6719	9. FACE &	AINTED; U.N.O. ON INTERIOR ELEVATIONS, CEILING PL UNDERSIDE OF BULKHEADS TO BE PAINTED P1; U.N.O
P10	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: LIME RICKEY SW6717	10. REFER DESIGN	TO CEILING PLANS & CEILING SPECIFICATIONS FOR SF ATIONS AND ACT TYPES.
P11	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: FROLIC SW6703	11. REFER FINISH I	TO INTERIOR ELEVATION SHEETS FOR MORE DETAILEI NFORMATION.
P12	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: CARNIVAL SW6892	12. WHERE 90 00 PA	SEALED CONCRETE (SC). IS SPECIFIED, REFER TO SP AINTING, FOR SYSTEM TYPE.
P13	PAINT (ACCENT) MANF: CUSTOM COLOR MATCH	14. ALL PAIN MAKERS	NTED WALLS IN TOILET ROOMS, KITCHENS, CAFETERI SPACES SHALL RECEIVE EPOXY PAINT, REFER TO PAIN
P14	PAINT (ACCENT) MANF: SHERWIN WILLIAMS	TYPE. 15. ALL STA PAINTER	NR AND GUARDRAIL RAILINGS, HANDRAILS, STRINGER D P2; U.N.O.
P15	COLOR: AFTERNOON SW6675 PAINT (ACCENT) MANF: SHERWIN WILLIAMS	16. CONTRA EQUIPM	ACTOR SHALL COORDINATE THE INSTALLATION OF OW IENT, INCLUDED DIMENSIONS OF SUCH AS THEY RELA
P16	COLOR: WHITE RAISIN SW7685 PAINT (ACCENT)	17. PROTEC	CT ALL FINISHES DURING CONSTRUCTION. IDOW SILLS SHALL BE SSM1, TYPICAL, U.N.O.
P17	MAINF. SHERWIN WILLIAMS COLOR: MATCH WOOD TONE OF PL1, AF1 AND WOOD DOORS, TBD PAINT (ACCENT)	19. ALL LOV 20. ALL FLE	V WALL RETURNS, LOUVERS TO MATCH ADJACENT WA
D19	MANF: MDC COLOR: FUZE DRY ERASE PAINT	ADJACE	INT WALL COLOR, TYPICAL, U.N.O.
r' 10	MANF: SHERWIN WILLIAMS COLOR: SAND SW7529		
P19 PC1	SPECIALTY GREEN SCREEN PAINT- SEE SPEC. POLISHED CONCRETE - SEE SPEC		
PC2	POLISHED CONCRETE - SEE SPEC COLOR: BLACK DIAMOND 70%		FINISH SYMBOLS :
PC3	POLISHED CONCRETE - SEE SPEC COLOR: BLACK DIAMOND 100%	ROC	
PL1	PLASTIC LAMINATE MANF: WILSONART COLOR: FUSION MAPLE 7909 EINISH: 60 MATTE	WA FLO BAS	OR FINISH SE FINISH
PL2	PLASTIC LAMINATE MANF: WILSONART		
PL3	GOLOK: PEWTER MESH 4878 FINISH: 38 VELVET FINISH PLASTIC LAMINATE		
	MANF: FORMICA COLOR: PALOMA POLAR 6698 FINISH: 58 MATTE	01 MAN ASS 02 MO [°] WIN 03 MAN	NUAL ROLLER SHADE LOCATION. PROVIDE FULL WIDTI SEMBLY AT EACH LOCATION REFER TO SPECIFICATION TORIZED ROLLER SHADES LOCATION. PROVIDE FULL V IDOW ASSEMBLY AT EACH LOCATION REFER TO SPEC NUAL DRAPERY AND TRACK SYSTEM. REFER TO SPEC

X
FINISH KEYNOTES :
DE LOCATION. PROVIDE FULL WIDTH OF WINDOW OCATION REFER TO SPECIFICATION SHADES LOCATION. PROVIDE FULL WIDTH OF AT EACH LOCATION REFER TO SPECIFICATION ND TRACK SYSTEM. REFER TO SPECIFICATION
UNIT A UNIT B UNIT D

VORK POINT

FLOORING TRANSITION

ALL COLOR, TYPICAL, U.N.C PAINTED TO MATCH

S, RISERS, ETC. ARE TO BE WNER FURNISHED ATE TO THEIR OWN WORK.

AS, ART ROOMS AND IT SPECIFICATION FOR

ECIFICATION SECTION 09

D PAINT AND INTERIOR

O. ON FINISH PLANS OR PECIAL CEILING

2; U.N.O. THER MISC. EXPOSED ITEMS PLANS OR FINISH PLANS.

TION. TENDED TO RECEIVE FIELD

TTING MATERIAL HEIGHT. INSIDE OF FLOORLESS

PREPARATION OF ANUFACTURERS

HED CONCRETE, TO

- BRIGHT (L33201CD) 9, P11, P13 AND P14 ISH CARPENTRY SPEC.

N (L32606) P11 AND SHERWIN CHES. TED

12-05), OPTION 2- NO COLOR MATCHES.

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FLOORING

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SCF PUBLIC ROCKFORD

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ELEMENTARY

NEW

ISSUANCES 09.16.2021 BIDS & CONSTRUCTION

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UNIT 'A' FINISH PLAN

A9.1A













	FINISH L	EGEND :		
ACT1	ACOUSTICAL CEILING TILE (DISTRICT STANDARD) MANF: ARMSTRONG STYLE: TUNDRA BEVELED TEGULAR COLOR: WHITE	PL4	PLASTIC LAMINAT MANF: WILSONAR COLOR: ATLANTIS FINISH: 60 MATTE	E T 5 D25
ACT2	ACOUSTICAL CEILING TILE (KITCHEN) MANF: ARMSTRONG	PL5	PLASTIC LAMINAT PLASTIC LAMINAT MANF: FORMICA COLOR: VIBRANT	E GREEN 6901
ACT 3	COLOR: WHITE SIZE: 2'X2' ACOUSTICAL CEILING TILE MANE: ARMSTRONG	PL6	PLASTIC LAMINAT MANF: WILSONAR COLOR: ORANGE	E T GROVE D501
	STYLE: CALLA COLOR: KIWI (STANDARD) SIZE: 2'X2' NOTE: INCLUDE CUSTOM COLOR PERIMETER TRIM FOR ALL CEILING VOIDS	PL7	PLASTIC LAMINAT MANF: NEVAMAR COLOR: SUNRAY	E S4022T
ACT 4	ACOUSTICAL CEILING TILE MANF: ARMSTRONG STYLE: ULTIMA BEVELED TEGULAR	PL8	PLASTIC LAMINAT MANF: WILSONAR COLOR: SATIN BR	E- DECORATIVE METALS T USHED SMOKE ALUMINUM
ACT5	COLOR: WHITE SIZE: 1'X4' ACOUSTICAL CEILING TILE MANF: ARMSTRONG	RB1	RUBBER BASE MANF: JOHNSONI STYLE: COVE COLOR: GRAY #4 SIZE: 4"	TE 8
AF1	STYLE: GRID ONLY, NO TILE COLOR: KIWI (STANDARD) SIZE: 2'X2' ARCHITECTURAL FINISH FILM	RES1	RESINOUS FLOOF MANF: STONHARI STYLE: STONCLA COLOR: TO BE SE	RING SYSTEM) D UT W/ STONKOTE HT4 TOPCOAT LECTED FROM MANF. FULL RANG
AF2	MANF: 3M/DESIGNTEX ARCHITECTURAL DINOC FILM STYLE/COLOR: FINE WOOD FW-1981 ARCHITECTURAL FINISH FILM MANF: 3M/DESIGNTEX ARCHITECTURAL DINOC FILM	RAF1	TEXTURE: LIGHT NOTE: PROVIDE II RESILIENT ATHLE MANF.: TARKETT	NTEGRAL COVE BASE 4" HIGH TIC FLOORING - MULTIPURPOSE F
AWP1 AWP2	STYLE/COLOR: FINE WOOD FW-1307 NOT USED ACOUSTICAL WALL PANEL	SC1	STYLE: OMNISPO COLOR: GOLDEN SEALED CONCRE REFER TO SPECI	RT MAPLE TE FICATIONS FOR SYSTEM
CT1	MANF: ARMSTRONG STYLE: TECTUM COLOR: PAINTED- REFER TO INTERIOR ELEVATIONS CARPET- 6' ROLL (WALK OFF)	SSM1	SOLID SURFACE I MANF: CORIAN COLOR: WHITE J.	MATERIAL (SILLS) ASMINE
CT2	MANF: TANDUS STYLE: ASSERTIVE ACTION/ COLOR: STEELWORK CARPET- 6' ROLL MANF: TANDUS	SSM2 SSM3	SOLID SURFACE I MANF: WILSONAR COLOR: BROOKLY SOLID SURFACE I	/ATERIAL T /N CONCRETE //ATERIAL
CT3	STYLE: CARTOGRAPHY/ COLOR: PARCHMENT CARPET- 6' ROLL MANF: TANDUS STYLE: EREEL ANCE/ COLOR: LINIVERSAL ELEMENT	TB1	MANF: WILSONAR COLOR: CHILLED TACKABLE BULLE	T EARTH TIN BOARD ROLL
CT4	CARPET- 6' ROLL MANF: TANDUS STYLE: FREELANCE/ COLOR: GREEN ENVY	TB2	COLOR: OYSTER NOTE: PROVIDE E TACKABLE BULLE	DGE TRIM AT EXPOSED EDGES TIN BOARD ROLL
CT5	CARPET- 6' ROLL MANF: TANDUS STYLE: FREELANCE/ COLOR: CUSTOM COLOR STRIKEOFF REFERENCE #S: #112161921-30, #112161921-40, #112161921-50	TB3	COLOR: BLUEBER NOTE: PROVIDE E	RY DGE TRIM AT EXPOSED EDGES TIN BOARD ROLL
CT6	CARPET- 6' ROLL MANF: TANDUS STYLE: FABRICATE/ COLOR: ARUGULA	TB4	MANF: FORBO COLOR: LETTUCE NOTE: PROVIDE E TACKABLE BULLE	DGE TRIM AT EXPOSED EDGES TIN BOARD ROLL
CT7 CT8	CARPET- 6' ROLL MANF: TANDUS STYLE: FREELANCE/ COLOR: SALT LAKE CARPET- 6' ROLL	TB5	MANF: FORBO COLOR: TANGERI NOTE: PROVIDE E TACKABLE BULLE	NE DGE TRIM AT EXPOSED EDGES TIN BOARD ROLL
СТ9	MANF: TANDUS STYLE: SQUARE UP/ COLOR: COOLWATER CARPET- 6' ROLL MANF: TANDUS	VWC1	MANF: FORBO COLOR: FRESH PI NOTE: PROVIDE E VINYL WALL COVI	NEAPPLE DGE TRIM AT EXPOSED EDGES ERING- CUSTOM DIGITALLY PRINT
CT10	STYLE: CARTOGRAPHY/ COLOR: SEA LEVEL CARPET- 6' ROLL MANF: TANDUS STYLE: FREELANCE/ COLOR: JACK'S RIVER		MANF: GRAVITY D PATTERN: CUSTC BIRDS REFERENCE #: GI COLOR: CUSTOM	IGITAL WALLS M OF SONGBIRDS SUNSHINE (G2- R10396, VCC020821 COLORS USING P1, P2, P3 AND P4
CT11	CARPET- 6' ROLL MANF: TANDUS STYLE: FABRICATE/ COLOR: FRENCH NAVY	VWC2	VINYL WALL COVI MANF: LEVEL DIG PATTERN: CUSTC REFERENCE #: 4V	ERING- CUSTOM DIGITALLY PRINT TAL WALLCOVERINGS M OF BLUESTEM GARDEN- CITRO (14640, VCC011421
CT12	CARPET- 6' ROLL MANF: TANDUS STYLE: FREELANCE/ COLOR: HARBOR LIGHTS	VWC3	COLOR: CUSTOM WILLIAMS DO VINYL WALL COVI	COLORS USING P1, P2, P3, P4, P9 RIAN GRAY SW7017 COLOR MATC ERING- CUSTOM DIGITALLY PRINT
P1	PAINT (GENERAL DISTRICT STANDARD) MANF: BENJAMIN MOORE COLOR: CHANTILLY LACE OC-65		PATTERN: CUSTO REFERENCE #: 4V COLOR: CUSTOM COLOR MATO	M OF WOODLAND WONDERLAND V14640, VCC021621 COLORS USING P1, P2, P5, P8, P9 :HES.
P2	PAINT (TRIM) MANF: SHERWIN WILLIAMS COLOR: DOVETAIL SW7018	WD1	BALTIC BIRCH PL	/WOOD W/ CLEAR FINISH- SEE FI
P3 P4	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: MINDFUL GRAY SW4016 PAINT (ACCENT)	1. ALL ARI	GEN EAS OF RESILIENT FL	OORING, CARPET, SEALED/POLIS
P5	MANF: SHERWIN WILLIAMS COLOR: REPOSE GRAY SW7015 PAINT (ACCENT) MANF: BENJAMIN MOORE	2. IT IS TH SURFAC RECOM	'E RUBBER BASE; U.N IE RESPONSIBILITY O CES TO RECEIVE FINI IMENDED PRACTICES	I.O. ON FINISH PLANS. F ALL TRADES TO COORDINATE P SH PRODUCT. CONSULT WITH M/
P6	COLOR: VAN DEUSEN BLUE HC-156 PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: BLUE PLATE SW6796	3. ALL REI 4. INSTALI CASEW	DUCERS TO COORDI L 4" H. RUBBER BASE	IATE APPROPRIATELY WITH ABU (RB) AT CASEWORK TOE KICKS, I SUPPORTS
P7	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: LAKESHORE SW6494	5. SEE SP 6. PAINT A	ECIFICATIONS FOR R	ESILIENT ACCESSORY INFORMAT
P8	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: QUENCH BLUE SW6785 PAINT (ACCENT)	7. HM DOC 8. EXPOSI	DRS, FRAMES AND W	NDOW FRAMES TO BE PAINTED F
P10	MANF: SHERWIN WILLIAMS COLOR: GECKO SW6719 PAINT (ACCENT) MANE: SHERWIN WILLIAMS	9. FACE & NOTED	UNDERSIDE OF BULI ON INTERIOR ELEVA	(HEADS TO BE PAINTED P1; U.N.C TIONS.
P11	COLOR: LIME RICKEY SW6717 PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: FROLIC SW6703	10. REFER DESIGN 11. REFER FINISH	TO CEILING PLANS & IATIONS AND ACT TY TO INTERIOR ELEVA [*] INFORMATION.	CEILING SPECIFICATIONS FOR SP PES. TION SHEETS FOR MORE DETAILE
P12	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: CARNIVAL SW6892	12. WHERE 90 00 P/ 13. REFER	E SEALED CONCRETE AINTING, FOR SYSTEI TO SPECIFICATIONS	(SC). IS SPECIFIED, REFER TO SF M TYPE. FOR ALL PAINT TYPES.
P13	PAINT (ACCENT) MANF: CUSTOM COLOR MATCH COLOR: RPS ORANGE PMS #	14. ALL PAI MAKER: TYPE.	INTED WALLS IN TOIL SPACES SHALL RECE	ET ROOMS, KITCHENS, CAFETERI IVE EPOXY PAINT, REFER TO PAI
P14 P15	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: AFTERNOON SW6675 PAINT (ACCENT)	15. ALL STA PAINTEI 16. CONTRJ EQUIPN	AIR AND GUARDRAIL D P2; U.N.O. ACTOR SHALL COORI IENT, INCLUDED DIMI	RAILINGS, HANDRAILS, STRINGER DINATE THE INSTALLATION OF OW ENSIONS OF SUCH AS THEY RELA
P16	MANE: SHERWIN WILLIAMS COLOR: WHITE RAISIN SW7685 PAINT (ACCENT) MANE: SHERWIN WILLIAMS	17. PROTEC	CT ALL FINISHES DUF NDOW SILLS SHALL B	RING CONSTRUCTION. E SSM1, TYPICAL, U.N.O.
P17	COLOR: MATCH WOOD TONE OF PL1, AF1 AND WOOD DOORS, TBD PAINT (ACCENT) MANF: MDC COLOR: FUZE DRY ERASE PAINT	19. ALL LOV 20. ALL EL ^I ADJACE	W WALL RETURNS, LO ECTRICAL PANELS, E ENT WALL COLOR, TY	DUVERS TO MATCH ADJACENT W/ XPOSED CONDUITS, ETC TO BE PICAL, U.N.O.
P18	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: SAND SW7529			
P19 PC1	SPECIALTY GREEN SCREEN PAINT- SEE SPEC. POLISHED CONCRETE - SEE SPEC COLOR: NATURAL		F	INISH SYMBOLS :
PC2 PC3	POLISHED CONCRETE - SEE SPEC COLOR: BLACK DIAMOND 70% POLISHED CONCRETE - SEE SPEC COLOR: BLACK DIAMOND 100%	RO		
PL1	PLASTIC LAMINATE MANF: WILSONART COLOR: FUSION MAPLE 7909 FINISH: 60 MATTE	WA FLC BA	ALL FINISH DOR FINISH SE FINISH	W.P.1
PL2	PLASTIC LAMINATE MANF: WILSONART COLOR: PEWTER MESH 4878 EINISH: 22 VET FINICU		F	NISH KEYNOTES :
PL3	FINISH: 38 VELVET FINISH PLASTIC LAMINATE MANF: FORMICA COLOR: PALOMA POLAR 6698 FINISH: 58 MATTE	01 MA	NUAL ROLLER SHADI SEMBLY AT EACH LO	E LOCATION. PROVIDE FULL WIDT CATION REFER TO SPECIFICATIOI
	··· -	02 MO WIN 03 MA	TORIZED ROLLER SH NDOW ASSEMBLY AT NUAL DRAPERY AND	ADES LOCATION. PROVIDE FULL EACH LOCATION REFER TO SPEC TRACK SYSTEM. REFER TO SPEC

KEYPLAN

UNIT A



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	FINISH L	EGEND :	
ACT1	ACOUSTICAL CEILING TILE (DISTRICT STANDARD) MANF: ARMSTRONG STYLE: TUNDRA BEVELED TEGULAR COLOR: WHITE	PL4	PLASTIC LAMINATE MANF: WILSONART COLOR: ATLANTIS D25 FINISH: 60 MATTE
ACT2	SIZE: 2'X2' ACOUSTICAL CEILING TILE (KITCHEN) MANF: ARMSTRONG STYLE: KITCHEN ZONE	PL5	PLASTIC LAMINATE MANF: FORMICA COLOR: VIBRANT GREEN 6901 FINISH: 58 MATTE
ACT 3	COLOR: WHITE SIZE: 2'X2' ACOUSTICAL CEILING TILE MANF: ARMSTRONG	PL6	PLASTIC LAMINATE MANF: WILSONART COLOR: ORANGE GROVE D501 FINISH: 60 MATTE
	STYLE: CALLA COLOR: KIWI (STANDARD) SIZE: 2'X2'	PL7	PLASTIC LAMINATE MANF: NEVAMAR
	NOTE: INCLUDE CUSTOM COLOR PERIMETER TRIM FOR ALL CEILING VOIDS	PL8	COLOR: SUNRAY S4022T PLASTIC LAMINATE- DECORATIVE METALS
ACT 4	ACOUSTICAL CEILING TILE MANF: ARMSTRONG STYLE: ULTIMA BEVELED TEGULAR COLOR: WHITE SIZE: 1YA'	RB1	MANF: WILSONART COLOR: SATIN BRUSHED SMOKE ALUMINUM RUBBER BASE MANE: JOHNSONITE
ACT5	ACOUSTICAL CEILING TILE MANF: ARMSTRONG STYLE: GRID ONLY, NO TILE	DEG	STYLE: COVE COLOR: GRAY #48 SIZE: 4"
AF1	COLOR: KIWI (STANDARD) SIZE: 2'X2' ARCHITECTURAL FINISH FILM MANF: 3M/DESIGNTEX ARCHITECTURAL DINOC FILM	REST	RESINGUS FLOORING SYSTEM MANF: STONHARD STYLE: STONCLAD UT W/ STONKOTE HT4 TOPCOAT COLOR: TO BE SELECTED FROM MANF. FULL RANGE TEXTURE: LIGHT
AF2	STYLE/COLOR: FINE WOOD FW-1981 ARCHITECTURAL FINISH FILM MANF: 3M/DESIGNTEX ARCHITECTURAL DINOC FILM STYLE/COLOR: FINE WOOD FW-1307	RAF1	NOTE: PROVIDE INTEGRAL COVE BASE 4" HIGH RESILIENT ATHLETIC FLOORING - MULTIPURPOSE FLOORING MANF.: TARKETT STYLF: OMNISPORT
AWP1	NOT USED	SC1	COLOR: GOLDEN MAPLE SEALED CONCRETE
AWP2	ACOUSTICAL WALL PANEL MANF: ARMSTRONG STYLE: TECTUM COLOR: PAINTED- REFER TO INTERIOR ELEVATIONS	SSM1	REFER TO SPECIFICATIONS FOR SYSTEM SOLID SURFACE MATERIAL (SILLS) MANF: CORIAN
CT1	CARPET- 6' ROLL (WALK OFF) MANF: TANDUS STYLE: ASSERTIVE ACTION/ COLOR: STEELWORK	SSM2	SOLID SURFACE MATERIAL MANF: WILSONART
CT2	CARPET- 6' ROLL MANF: TANDUS STVLE: CARTOCRAPHY/ COLOR: RARCHMENT	SSM3	COLOR: BROOKLYN CONCRETE SOLID SURFACE MATERIAL
CT3	CARPET- 6' ROLL MANF: TANDUS	TB1	COLOR: CHILLED EARTH
CT4	STYLE: FREELANCE/ COLOR: UNIVERSAL ELEMENT CARPET- 6' ROLL MANF: TANDUS		MANF: FORBO COLOR: OYSTER NOTE: PROVIDE EDGE TRIM AT EXPOSED EDGES
CT5	STYLE: FREELANCE/ COLOR: GREEN ENVY CARPET- 6' ROLL MANE: TANDUS	TB2	TACKABLE BULLETIN BOARD ROLL MANF: FORBO COLOR: BLUEBERRY NOTE: PROVIDE EDGE TRIM AT EXPOSED EDGES
CT6	STYLE: FREELANCE/ COLOR: CUSTOM COLOR STRIKEOFF REFERENCE #S: #112161921-30, #112161921-40, #112161921-50 CARPET- 6' ROLL	ТВЗ	TACKABLE BULLETIN BOARD ROLL MANF: FORBO COLOR: LETTUCE
CT7	MANF: TANDUS STYLE: FABRICATE/ COLOR: ARUGULA CARPET- 6' ROLL	TB4	NOTE: PROVIDE EDGE TRIM AT EXPOSED EDGES TACKABLE BULLETIN BOARD ROLL MANF: FORBO
CT8	MANF: TANDUS STYLE: FREELANCE/ COLOR: SALT LAKE CARPET- 6' ROLL	TB5	COLOR: TANGERINE NOTE: PROVIDE EDGE TRIM AT EXPOSED EDGES TACKABLE BULLETIN BOARD ROLL
CT9	MANF: TANDUS STYLE: SQUARE UP/ COLOR: COOLWATER CARPET- 6' ROLL MANE: TANDUS	\/W/C1	MANF: FORBO COLOR: FRESH PINEAPPLE NOTE: PROVIDE EDGE TRIM AT EXPOSED EDGES
CT10	STYLE: CARTOGRAPHY/ COLOR: SEA LEVEL CARPET- 6' ROLL MANF: TANDUS	Will	MANF: GRAVITY DIGITAL WALLS PATTERN: CUSTOM OF SONGBIRDS SUNSHINE (G2-12-05), OPT BIRDS REFERENCE #: GR10396, VCC020821
CT11	STYLE: FREELANCE/ COLOR: JACK'S RIVER CARPET- 6' ROLL MANF: TANDUS	VWC2	COLOR: CUSTOM COLORS USING P1, P2, P3 AND P4 COLOR MA VINYL WALL COVERING- CUSTOM DIGITALLY PRINTED MANF: LEVEL DIGITAL WALLCOVERINGS
CT12	CARPET- 6' ROLL MANF: TANDUS STYLE: FREELANCE/ COLOR: HARBOR LIGHTS		REFERENCE #: 4W14640, VCC011421 COLOR: CUSTOM COLORS USING P1, P2, P3, P4, P9, P11 AND S WILLIAMS DORIAN GRAY SW7017 COLOR MATCHES.
MF1	MECHANICAL FLOOR SYSTEM- SEE SPECIFICATION 09 97 23	VWC3	VINYL WALL COVERING- CUSTOM DIGITALLY PRINTED MANF: LEVEL DIGITAL WALLCOVERINGS PATTERN: CUSTOM OF WOODLAND WONDERLAND- BRIGHT (L3
P1 P2	PAINT (GENERAL DISTRICT STANDARD) MANF: BENJAMIN MOORE COLOR: CHANTILLY LACE OC-65 PAINT (TRIM)	WD1	REFERENCE #: 4W14640, VCC021621 COLOR: CUSTOM COLORS USING P1, P2, P5, P8, P9, P11, P13 AI COLOR MATCHES. BAI TIC BIRCH PI YWOOD W/ CI FAR FINISH- SEE FINISH CARPE
P3	MANF: SHERWIN WILLIAMS COLOR: DOVETAIL SW7018		
	MANF: SHERWIN WILLIAMS COLOR: MINDFUL GRAY SW4016		GENERAL FINISH NOTES :
P4	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: REPOSE GRAY SW7015 PAINT (ACCENT)	1. ALL AR RECEIV 2. IT IS TH SURFA	EAS OF RESILIENT FLOORING, CARPET, SEALED/POLISHED CONCF /E RUBBER BASE; U.N.O. ON FINISH PLANS. HE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATIC CES TO RECEIVE FINISH PRODUCT CONSULT WITH MANUFACTUR
P6	MANF: BENJAMIN MOORE COLOR: VAN DEUSEN BLUE HC-156 PAINT (ACCENT) MANE: SHERWIN WILLIAMS	RECON 3. ALL RE	
P7	COLOR: BLUE PLATE SW6796 PAINT (ACCENT)	4. INSTAL CASEW 5. SEE SF	ICA FL RUBBER BASE (RB) AT CASEWORK TOE RICKS, INSIDE OF F /ORK, AND VERTICAL SUPPORTS. PECIFICATIONS FOR RESILIENT ACCESSORY INFORMATION.
P8	PAINT (ACCENT)	6. PAINT PAINT	ALL EXPOSED MECHANICAL AND ELECTRICAL ITEMS INTENDED TO TO MATCH ADJACENT SURFACES; U.N.O.
P9	MANF: SHERWIN WILLIAMS COLOR: QUENCH BLUE SW6785 PAINT (ACCENT)	 HM DO EXPOS TO BE 	ORS, FRAMES AND WINDOW FRAMES TO BE PAINTED P2; U.N.O. ED CEILINGS, DECK, DUCTWORK, STRUCTURE AND OTHER MISC. F
D 10	MANF: SHERWIŃ WILLIAMS COLOR: GECKO SW6719	9. FACE 8 NOTED	UNDERSIDE OF BULKHEADS TO BE PAINTED P1; U.N.O. ON FINISH ON INTERIOR ELEVATIONS.
PIU	MANF: SHERWIN WILLIAMS COLOR: LIME RICKEY SW6717	10. REFER DESIGI	TO CEILING PLANS & CEILING SPECIFICATIONS FOR SPECIAL CEIL NATIONS AND ACT TYPES.
P11	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: FROLIC SW6703	11. REFER FINISH	TO INTERIOR ELEVATION SHEETS FOR MORE DETAILED PAINT AN INFORMATION.
P12	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: CARNIVAL SW6892	90 00 P	TO SPECIFICATIONS FOR ALL PAINT TYPES.
P13	PAINT (ACCENT) MANF: CUSTOM COLOR MATCH COLOR: RPS ORANGE PMS #	14. ALL PA MAKER TYPE.	INTED WALLS IN TOILET ROOMS, KITCHENS, CAFETERIAS, ART RO ISPACES SHALL RECEIVE EPOXY PAINT, REFER TO PAINT SPECIFIC
P14	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: AFTERNOON SW6675	15. ALL ST PAINTE	AIR AND GUARDRAIL RAILINGS, HANDRAILS, STRINGERS, RISERS, ED P2; U.N.O.
P15	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: WHITE RAISIN SW7685	16. CONTR EQUIPI 17. PROTE	ACTOR SHALL COORDINATE THE INSTALLATION OF OWNER FORM MENT, INCLUDED DIMENSIONS OF SUCH AS THEY RELATE TO THEII CT ALL FINISHES DURING CONSTRUCTION.
P16	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: MATCH WOOD TONE OF PL1, AF1 AND WOOD DOORS, TBD	18. ALL WI 19. ALL LO	NDOW SILLS SHALL BE SSM1, TYPICAL, U.N.O. W WALL RETURNS, LOUVERS TO MATCH ADJACENT WALL COLOR,
P17	PAINT (ACCENT) MANF: MDC COLOR: FUZE DRY ERASE PAINT	20. ALL EL ADJAC	ECTRICAL PANELS, EXPOSED CONDUITS, ETC TO BE PAINTED TO ENT WALL COLOR, TYPICAL, U.N.O.
P18	PAINT (ACCENT) MANF: SHERWIN WILLIAMS COLOR: SAND SW7529		
P19 PC1	SPECIALTY GREEN SCREEN PAINT- SEE SPEC. POLISHED CONCRETE - SEE SPEC		
PC2	COLOR: NATURAL POLISHED CONCRETE - SEE SPEC COLOR: BLACK DIAMOND 70%		FINISH SYMBOLS :
PC3	POLISHED CONCRETE - SEE SPEC COLOR: BLACK DIAMOND 100%	RO	
PL1	PLASTIC LAMINATE MANF: WILSONART COLOR: FUSION MAPLE 7909 EINICH: COMMATE	W/ FLC BA	ALL FINISH DOR FINISH ASE FINISH WORK POIN
PL2	FINISH: DU MATTE PLASTIC LAMINATE MANF: WILSONART COLOR: PFWTFR MESH 4878		FINISH KEYNOTES :
PL3	FINISH: 38 VELVET FINISH PLASTIC LAMINATE MANE: FORMICA		
	COLOR: PALOMA POLAR 6698 FINISH: 58 MATTE	01 MA 02 MC 02 MA	NUAL ROLLER SHADE LOCATION. PROVIDE FULL WIDTH OF WIND SEMBLY AT EACH LOCATION REFER TO SPECIFICATION DTORIZED ROLLER SHADES LOCATION. PROVIDE FULL WIDTH OF NDOW ASSEMBLY AT EACH LOCATION REFER TO SPECIFICATION
		03	

RIAL	
RIAL	
30ARD ROLL	
TRIM AT EXPOSED EDGES	
SOARD ROLL	
TRIM AT EXPOSED EDGES	S S
BOARD ROLL	
TRIM AT EXPOSED EDGES	
BOARD ROLL	
TRIM AT EXPOSED EDGES	
30ARD ROLL	
PPLE TRIM AT EXPOSED EDGES	
G- CUSTOM DIGITALLY PRINTED	
AL WALLS SONGBIRDS SUNSHINE (G2-12-05), OPTION 2- NO	
26, VCC020821 DRS LISING P1 P2 P3 AND P4 COLOR MATCHES	
G- CUSTOM DIGITALLY PRINTED	
WALLCOVERINGS BI UESTEM GARDEN- CITRON (I 32606)	
0, VCC011421 DRS USING P1, P2, P3, P4, P9, P11 AND SHERWIN	Ro Ro
I GRAY SW7017 COLOR MATCHES.	
G- CUSTOM DIGITALLY PRINTED WALLCOVERINGS	
WOODLAND WONDERLAND- BRIGHT (L33201CD) 40, VCC021621	
DRS USING P1, P2, P5, P8, P9, P11, P13 AND P14	I X
OD W/ CLEAR FINISH- SEE FINISH CARPENTRY SPEC.	
AL FINISH NOTES :	
ING, CARPET, SEALED/POLISHED CONCRETE. TO	
DN FINISH PLANS.	
L TRADES TO COORDINATE PREPARATION OF RODUCT. CONSULT WITH MANUFACTURERS	
AT CASEWORK TOE KICKS, INSIDE OF FLOORLESS PORTS.	
IENT ACCESSORY INFORMATION.	
L AND ELECTRICAL ITEMS INTENDED TO RECEIVE FIELD	
FACES, U.N.O. WERAMES TO BE PAINTED $P^{(1)}$ U.N.O.	
WORK. STRUCTURE AND OTHER MISC. EXPOSED ITEMS	
IOR ELEVATIONS, CEILING PLANS OR FINISH PLANS.	
.DS TO BE PAINTED P1; U.N.O. ON FINISH PLANS OR S.	
ING SPECIFICATIONS FOR SPECIAL CEILING	
SHEETS FOR MORE DETAILED PAINT AND INTERIOR	
IS SPECIFIED, REFER TO SPECIFICATION SECTION 09	
ALL FAINT THES.	
EPOXY PAINT, REFER TO PAINT SPECIFICATION FOR	
NGS, HANDRAILS, STRINGERS, RISERS, ETC, ARE TO BE	
TE THE INSTALLATION OF OWNER FURNISHED ONS OF SUCH AS THEY RELATE TO THEIR OWN WORK.	
CONSTRUCTION.	
M1, TYPICAL, U.N.O.	
RS TO MATCH ADJACENT WALL COLOR, TYPICAL, U.N.O.	
SED CONDUITS, ETC TO BE PAINTED TO MATCH	
L, U.N.U.	09.16.2021 BIDS & CONSTRUCTION
CPT1 VCT1 FLOORING TRANSITION	
SH KEYNOTES :	
	DRAWN NES
	REVIEWED NES
S LOCATION. PROVIDE FULL WIDTH OF H LOCATION REFER TO SPECIFICATION	PROJECT NO. 5-4922
CK SYSTEM. REFER TO SPECIFICATION	No part of this drawing may be used or
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	UNIT 'D' FINISH PLAN
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GMB

ELECTRICAL ABBREVIATIONS						COMMUNICATIONS SYMBO
					¥	COMMUNICATIONS OUTLET ROUGH-IN
AFF		INTLK	INTERLOCK		I	
BKR	BREAKER	JCT	JUNCTION		Y _{1D}	COMMUNICATIONS OUTLET, ONE DATA NETWO
BOB	BOTTOM OF BOX	JB				$ \ \ \qquad \qquad$
DU3		KW			\mathbf{P}_{AC}	COMMUNICATIONS OUTLET, ACCESS CONTROL
BP		KWH				LOCATIONS THE CONTRACTOR IS TO FURNISH
CAR		KU				ABOVE THE CEILING WITH THE DESIGNATED DA
				\		
CKT						COMMUNICATIONS OUTLET. CEILING-MOUNTEI
CB		LCM			$\mathbf{\Phi}$	
C.	CONDUIT	LON				COMMUNICATIONS OUTLET, FLOOR-MOUNTED
COMM	COMMUNICATIONS				 	·····, ····
CONN	CONNECTION	LIG			Ē	CEILING-MOUNTED VIDEO PROJECTOR
CONST	CONSTRUCTION	MCC				
CONTR	CONTRACT (OR)	MIN				
CLI		NEC				COMMUNICATIONS EQUIPMENT RACK, FLOOR-
CT		NEG	NEGATIVE (.)			
F.C.		NC				COMMUNICATIONS EQUIPMENT RACK, WALL-M
EHD	ELECTRIC HAND DRYER	NO				CONDUIT SUFEVE FOR COMMUNICATIONS CAR
ELEC	ELECTRIC (AL)	N/A			E	TYP. UNLESS NOTED OTHERWISE. IN FIRE-RAT
EWC	ELECTRIC WATER COOLER	NIC				PROVIDE CABLE PATHWAY PENETRATION DEV
EM	EMERGENCY	NI	NIGHT LIGHT		(c)	
ENT	ENTRANCE	PC	PHOTO CELL		9	LOUDSPEAKER, CEILING-MOUNTED, TTPE T
EQ	EQUAL	POS	POSITIVE (+)		SI	LOUDSPEAKER WALL-MOUNTED TYPE 1
EQUIP	EQUIPMENT	PWR	POWER		Ŷ	
EST	ESTIMATE	P&L	POWER & LIGHTING		CS	INTERCOM SYSTEM CALL STATION BUTTON
EF	EXHAUST FAN	S	SURFACE			
ETR	EXISTING TO REMAIN	S.B.O.	SUPPLIED BY OTHERS		VC	VOLUME CONTROL FOR AUDIO SYSTEM, PAGIN
EX	EXISTING	SP	SINGLE POLE			
F	FLUSH	SPD	SURGE PROTECTION DEVICE		(C1)	SECONDARY CLOCK, CEILING-MOUNTED, TYPE
FA	FIRE ALARM	SPKR	SPEAKER			
FSE	FOOD SERVICE EQUIPMENT	SPEC	SPECIFICATION		C1	SECONDARY CLOCK, WALL-MOUNTED, TYPE 1
FP	FIRE PROOF / FIRE PROTECTION	SUB	SUBSTITUTE		T	
FLR	FLOOR	SWBD	SWITCHBOARD		B	SIGNALING BELL
FLUOR	FLUORESCENT	TEL	TELEPHONE		Ŭ	
GEN	GENERATOR	T'STAT	THERMOSTAT			NOTE: NOT ALL SYMBOLS ARE NECESS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	XFMR	TRANSFORMER			
GRD	GROUND	UG	UNDERGROUND		F	
HORIZ	HORIZONTAL	UL	UNDERWRITERS LABORATORIES		E	LECTRONIC SAFETY / SECURITY 3
HTR	HEATER	UH	UNIT HEATER			
HTG	HEATING	UNO	UNLESS NOTED OTHERWISE			
HV	HEATING / VENTILATING	VERT	VERTICAL		DC	DOOR CONTACT
HVAC	HEATING, VENTILATING, AIR CONDITIONING	W/	WITH		_	
HOA	HAND - OFF - AUTOMATIC	W/O	WITHOUT		EL	ELECTRONIC LATCH
HP	HEAT PUMP	WL	WET LOCATION		_	
		WP	WEATHER PROOF		ES	ELECTRONIC STRIKE

20/	ET ONE-V A CIRCUIT CONE	VAY BASE , 75% LOA)UIT, 3% V	D ON SIN D, 100% P OLTAGE I	gle Phas 2.F., in Ste Drop	SE, EEL	FEET (30A STE	ONE-WAY CIRCUIT, EEL COND	BASED O 75% LOAI UIT, 3% V	N SINGLE D, 100% P. OLTAGE D	Phas F., In Rop
CIRCUIT	CONDUCTOR SIZE				CIRCUIT	CONDUCTOR SIZE				
VOLTAGE	#12 AWG	#10 AWG	#8 AWG	#6 AWG	#4 AWG	VOLTAGE	#10 AWG	#8 AWG	#6 AWG	#4 A
120	60	100	150	245	385	120	60	100	150	24
208	100	170	265	425	670	208	100	170	265	42
277	135	230	355	565	890	277	135	230	355	5
480	240	400	615	980		480	240	400	615	98
FI	FT ONF-	NAY BASE		REE PHAS	F	FFFT	ONF-WAY	BASED O	N THREE	PHAS
Fi 20/ CIRCUIT	EET ONE-V A CIRCUIT CONE	VAY BASE , 75% LOA DUIT, 3% V 	ED ON THF D, 100% P OLTAGE I	REE PHAS 2.F., IN STE DROP IZE	E, EL	FEET 30A CIF CIRCUIT	ONE-WAY RCUIT, 75% CONDUIT,	BASED O 6 LOAD, 10 , 3% VOLT CONDUC	N THREE)0% P.F., I Age Dro for size	PHASI N STE P
Fi 20/ CIRCUIT VOLTAGE	ET ONE-V A CIRCUIT CONE #12 AWG	VAY BASE , 75% LOA Duit, 3% V Com #10 Awg	ED ON THF D, 100% P (OLTAGE I NDUCTOR S #8 AWG	REE PHAS .F., IN STE DROP IZE #6 AWG	E, EEL #4 AWG	FEET 30A CIF CIRCUIT VOLTAGE	ONE-WAY RCUIT, 75% CONDUIT, #10 AWG	BASED O 6 LOAD, 10 3% VOLT CONDUC #8 AWG	N THREE 00% P.F., I AGE DRO FOR SIZE #6 AWG	PHAS N STE P #4 A
FI 20/ CIRCUIT VOLTAGE 208	EET ONE-V A CIRCUIT CONE #12 AWG 120	VAY BASE , 75% LOA DUIT, 3% V CON #10 AWG 200	ED ON THF D, 100% P OLTAGE I NDUCTOR S #8 AWG 305	REE PHAS P.F., IN STE DROP IZE #6 AWG 490	E, EEL #4 AWG 775	FEET 30A CIF CIRCUIT VOLTAGE 208	ONE-WAY RCUIT, 75% CONDUIT, #10 AWG 120	BASED O 6 LOAD, 10 3% VOLT CONDUC #8 AWG 200	N THREE 00% P.F., I AGE DRO TOR SIZE #6 AWG 305	PHAS N STE P #4 A 49

	COMMUNICATIONS OUTLET, FLOOR-MOUNTED
	CEILING-MOUNTED VIDEO PROJECTOR
	COMMUNICATIONS EQUIPMENT RACK, FLOOR-N
	COMMUNICATIONS EQUIPMENT RACK, WALL-MO
E3	CONDUIT SLEEVE FOR COMMUNICATIONS CABL TYP. UNLESS NOTED OTHERWISE. IN FIRE-RATI PROVIDE CABLE PATHWAY PENETRATION DEVIC
S1	LOUDSPEAKER, CEILING-MOUNTED, TYPE 1
S1	LOUDSPEAKER, WALL-MOUNTED, TYPE 1
CS	INTERCOM SYSTEM CALL STATION BUTTON
VC	VOLUME CONTROL FOR AUDIO SYSTEM, PAGINO
(C1)	SECONDARY CLOCK, CEILING-MOUNTED, TYPE
(C1)	SECONDARY CLOCK, WALL-MOUNTED, TYPE 1
B	SIGNALING BELL
	NOTE: NOT ALL SYMBOLS ARE NECESS
EL	ECTRONIC SAFETY / SECURITY S
DC	DOOR CONTACT
EL	ELECTRONIC LATCH
ES	ELECTRONIC STRIKE
К	INTRUSION DETECTION KEYPAD
IC	INTERCOM STATION
SC	WALL-MOUNTED SURVEILLANCE CAMERA COMM
SC	CEILING-MOUNTED SURVEILLANCE CAMERA CON
SC1	WALL-MOUNTED SURVEILLANCE CAMERA, TYPE
SC1	CEILING-MOUNTED SURVEILLANCE CAMERA, TYP
	WALL-MOUNTED INFRARED MOTION DETECTOR
ID	CEILING-MOUNTED INFRARED MOTION DETECTO
UD	WALL-MOUNTED ULTRASONIC MOTION DETECTO
UD	CEILING-MOUNTED ULTRASONIC MOTION DETEC
CR	CARD READER
CR M	CARD READER, MULLION-MOUNTED
XXXXX	ACCESS CONTROL DOOR TAG, REFER TO HARDV AND/OR SECTION 28 13 00 FOR FURTHER DETAIL
ACS	ACCESS CONTROL SYSTEM EQUIPMENT
IDS	INTRUSION DETECTION SYSTEM EQUIPMENT
PSU	POWER SUPPLY UNIT
	NOTE: NOT ALL SYMBOLS ARE NECESSA

201		
) / N		

ABOL LEGEND		
ETWORK ACTIVATION		_
NTROL, THESE DROPS ARE SHOWN AS I FOR CONTROL OF DOORS. AT THESE RNISH AND INSTALL A BISCUIT JACK TED DATA TERMINATIONS. THESE DROPS PER SPECIFICATIONS.	3	
DUNTED		
INTED		
LOOR-MOUNTED		
ALL-MOUNTED		
S CABLING, 2" DIA. OR EQUIV. FREE AREA RE-RATED OR SMOKE-TIGHT WALLS, N DEVICE(S) PER SECTION 27 05 28.		
E 1		
ON		
PAGING, OR INTERCOM LOUDSPEAKERS		
, TYPE 1		
YPE 1		
ECESSARILY USED		
TY SYMBOL LEGEND		
		:
COMMUNICATIONS ROUGH-IN		
RA COMMUNICATIONS ROUGH IN		
, TYPE 1		
RA, TYPE 1		VER D
CTOR		[r
TECTOR		L
TECTOR		
DETECTOR		
		[
HARDWARE SCHEDULE(S) IN SECTION 08 71 00 DETAILED REQUIREMENTS		
ENT		
CESSARILY USED		[

5	THREE PHASE MOTOR CONNECTION, 5 HORSE POWER
1/2	SINGLE PHASE MOTOR CONNECTION, 1/2 HORSE POWER
7 ⊡•	SAFETY SWITCH DISCONNECTING MEANS, NOT FUSIBLE
	SAFETY SWITCH DISCONNECTING MEANS, FUSIBLE
Z	COMBINATION MOTOR STARTER AND FUSIBLE DISCONNECTING MEANS
∽ h	VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECTING MEANS
\boxtimes	MOTOR STARTER
\$ F	BOX-COVER FUSIBLE DISCONNECT SWITCH
\$ M	MANUAL MOTOR CONTROLLER
\$	POWER SWITCH, REFER TO LIGHTING SYMBOL LEGEND FOR SIMILAR SWITCH TYPES
۲	DIRECT ELECTRICAL CONNECTION
φ	SINGLE NEMA 5-20R RECEPTACLE
φ	SINGLE NEMA 5-20R RECEPTACLE, CEILING-MOUNTED
D	SINGLE NEMA 5-20R RECEPTACLE, FLOOR-MOUNTED
φ	DUPLEX NEMA 5-20R RECEPTACLE
₽⊧	"E" NOTATION: REPLACE EXISTING WIRING DEVICE USING EXISTING OUTLET BOX
₽R	"R" NOTATION: ROUGH-IN ONLY
₽GFCI	"GFCI" NOTATION: GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE
¶s	"S" NOTATION: SURFACE-MOUNTED
₽₩⊾	"WL" NOTATION: PROVIDE WEATHER RESISTANT (WR) GFCI RECEPTACLE WITH EXTRA-DUTY WHILE-IN-USE WET LOCATION COVER
¶ □c	DROP CORD FROM CEILING.
¶ —	DUPLEX NEMA 5-20R RECEPTACLE, CEILING-MOUNTED
	DUPLEX NEMA 5-20R RECEPTACLE, FLOOR-MOUNTED
¥ A	DUPLEX NEMA 5-20R RECEPTACLE, CONNECTED TO STANDBY POWER BRANCH CIRCUIT
Ψ	DUPLEX NEMA 5-20R RECEPTACLE, SPLIT-WIRED
₩ ₩	QUADRUPLEX (DOUBLE DUPLEX) NEMA 5-20R RECEPTACLE
₩	
₩ 00	RECEPTACLE OTHER THAN NEMA 5-20R (MAY BE MULTI-POLE OR MULTI-PHASE),
Υ Ω	SEE PLAN FOR TYPE RECEPTACLE OTHER THAN NEMA 5-20R (MAY BE MULTI-POLE OR MULTI-PHASE),
HORIZ.	SEE PLAN FOR TYPE, FLOOR-MOUNTED
MTS	MANUAL TRANSFER SWITCH
77 7	
	SWITCHBOARD
	TRANSFORMED
<u> </u>	IRANSFORMER
⊥⊔ ∓	
E F	EMERGENCY STOP STATION, REFER TO DETAIL FOR REQUIREMENTS.
۳ آ	
	NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED

POWER SYMBOL LEGEND

	LIGHTING SYMBOL LEGEND
\$	SINGLE POLE TOGGLE SWITCH
\$ 2	DOUBLE POLE TOGGLE SWITCH
\$ 3	THREE-WAY TOGGLE SWITCH
\$ 4	FOUR-WAY TOGGLE SWITCH
\$os	SINGLE POLE SWITCH WITH INTEGRAL OCCUPANCY SENSOR
\$osd	SINGLE POLE SWITCH WITH INTEGRAL OCCUPANCY SENSOR AND DIMMER
\$ D	WALL-BOX DIMMER SWITCH
\$ D3	THREE-WAY WALL-BOX DIMMER SWITCH
\$ ⊤	ELECTRONIC INTERVAL TIMER SWITCH
\$ P	LIGHT SWITCH WITH PILOT LIGHT
\$ c	LIGHTING CONTROL SWITCH, REFER TO LIGHTING CONTROL SWITCH SCHEDULE
\$ _{DT}	DOUBLE-THROW (MAINTAINED) LIGHT SWITCH
\$ K	KEY-OPERATED SWITCH (SUFFIX DESIGNATION NONE: SINGLE POLE, 2: DOUBLE-POLE, 3: THREE-WAY, 4: FOU
\$ L	LOCKING SWITCH (SUFFIX DESIGNATION NONE: SINGLE-POLE, 2: DOUBLE-POLE, 3: THREE-WAY, 4: FOU
TP	TOUCHSCREEN PANEL
LPA-X	CIRCUIT NUMBER FOR LIGHT FIXTURES WITHIN INDICATED SPACE
□ A	WALL-MOUNTED LIGHTING FIXTURE, TYPE 'A'
A	RECESSED LIGHTING FIXTURE, TYPE 'A'
А	SURFACE-MOUNTED LIGHTING FIXTURE, TYPE 'A'
Δ	TRACK LIGHTING
\bigotimes	SINGLE FACE EXIT SIGN, TYPE "X1" IN SCHEDULE UNLESS OTHERWISE NOTED, SHADING INDICATES FACE ORIENTATION
٢	DOUBLE FACE EXIT SIGN, TYPE "X2" IN SCHEDULE UNLESS OTHERWISE NOTED, SHADING INDICATES FACE ORIENTATION
٢	WALL-MOUNTED EXIT SIGN, SHADING INDICATES FACE ORIENTATION
	EMERGENCY LIGHT FIXTURE DESIGNATION
	EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL RELAY
R	LIGHTING CONTROL RELAY
С	LIGHTING CONTROL ENCLOSED CONTACTOR
TS	TIME SWITCH
LCM	LIGHTING CONTROL MODULE
INV-1	EMERGENCY LIGHTING INVERTER, TYPE 1
\mathbf{P}	WALL-MOUNTED OCCUPANCY SENSOR
\diamond	CEILING-MOUNTED OCCUPANCY SENSOR
PC	WALL-MOUNTED PHOTOCELL FOR ON/OFF CONTROL
PC	CEILING-MOUNTED PHOTOCELL FOR ON/OFF CONTROL
PS L	WALL-MOUNTED PHOTOSENSOR FOR DAYLIGHT HARVESTING DIMMING CONTROL
PS	CEILING-MOUNTED PHOTOSENSOR FOR DAYLIGHT HARVESTING DIMMING CONTROL
	POLE-MOUNTED SITE/AREA FIXTURE
	SELF-CONTAINED EMERGENCY LIGHTING UNIT NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED



TYPICAL MOUNTING HEIGHTS FOR WALL DEVICES, EQUIPMENT, & FIXTURES NOT TO SCALE

		FIRE ALARM SYMBOL LEGEND	
	Ē	MANUAL PULL STATION	
	Ą	AUDIBLE NOTIFICATION APPLIANCE, WALL-MOUNTED	
		VISUAL NOTIFICATION APPLIANCE, WALL-MOUNTED	
		AUDIBLE/VISUAL NOTIFICATION APPLIANCE, WALL-MOUNTED	
NSOR		AUDIBLE NOTIFICATION APPLIANCE, CEILING-MOUNTED	
NSOR AND DIMMER	AM	AUDIBLE/VISUAL NOTIFICATION APPLIANCE, CEILING-MOUNTED	
	∇	VISUAL NOTIFICATION APPLIANCE, CEILING-MOUNTED	
	WG/PC	WHERE "WG/PC" IS NOTED, PROVIDE LISTED WIRE GUARD OR PROTECTIVE POLYCARBONATE COVER FOR NOTIFICATION DEVICE	
	WL	WHERE "WL" IS NOTED, PROVIDE LISTED WET-LOCATION NOTIFICATION DEVICE, SUITABLE FOR INDOOR OR OUTDOOR USE.	
	S	SMOKE DETECTOR	
TROL SWITCH SCHEDULE	(F)	HEAT DETECTOR	
		DUCT SMOKE DETECTOR	
.E-POLE, 3: THREE-WAY, 4: FOUR-WAY)	D	SMOKE DAMPER OPERATOR MOTOR	
.E-POLE, 3: THREE-WAY, 4: FOUR-WAY)	(S)	FIRE PROTECTION FLOW SWITCH	
	G	FIRE PROTECTION TAMPER SWITCH	
TED SPACE		ELECTROMAGNETIC DOOR HOLD-OPEN DEVICE	
	R	ADDRESSABLE RELAY FOR FIRE ALARM CONTROL	
	()	PRESSURE SWITCH	
	©	CARBON MONOXIDE DETECTOR	
	NAC	NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY	
	FAA	FIRE ALARM REMOTE ANNUNCIATOR	
SS OTHERWISE NOTED,	FACP	FIRE ALARM CONTROL PANEL	
ESS OTHERWISE NOTED,	\$ _{rts}	KEYED TEST SWITCH AND REMOTE INDICATOR FOR DUCT SMOKE DETECTOR	
	B	FIRE PROTECTION OR ALARM BELL	
ORIENTATION		NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED	
LAY			

	ELECTRICAL GENERAL NOTES
1.	ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AS AMENDED AND LOCAL AUTHORITY HAVING JURISDICTION WHERE THE WORK IS PERFORMED.
2.	ALL "LOW-VOLTAGE" CONTROLS, COMMUNICATIONS, AND SAFETY/SECURITY CABLING WITHOUT CONDUIT, RACEWAY, OR CABLE TRAY ONLY WHERE CONCEALED ABOVE A S SYSTEM AND ACCESSIBLE FOR FUTURE MAINTENANCE. OTHERWISE, ALL CABLING (IN LIMITED TO CABLES ASSOCIATED WITH SYSTEMS SUCH AS ARCHITECTURAL EQUIPME ENERGY MANAGEMENT, TEMPERATURE CONTROLS, LIGHTING CONTROLS, COMMUNIC TELEPHONE, AUDIO-VIDEO, INTERCOM, PAGING, CLOCK, SURVEILLANCE, ACCESS CON ETC.) SHALL BE INSTALLED IN AN APPROVED CONDUIT, RACEWAY SYSTEM, AND/OR C OTHERWISE NOTED. IN EXPOSED STRUCTURE CEILING AREAS, CONCEALED INSTALL RACEWAYS SHALL BE REQUIRED FOR AESTHETIC REASONS; REFER TO REFLECTED C LOCATION(S). THIS APPLIES TO ALL TRADES AND WORK CATEGORIES. EXCEPTIONS: A. DEDICATED MECHANICAL AND/OR ELECTRICAL ROOMS ABOVE 8'-0" AFF B. DEDICATED TELECOMMUNICATIONS ROOMS
3.	"LOW-VOLTAGE" CONTROLS, COMMUNICATIONS, AND SAFETY/SECURITY CABLING SH/ CONTRACTORS INSTALLING CABLING WHERE APPROVED FOR EXPOSED INSTALLATIO CABLES AFTER PAINTING HAS BEEN COMPLETED OR PROVIDE TEMPORARY PROTECT UNTIL PAINTING HAS BEEN COMPLETED. PROVIDE TEMPORARY PROTECTION OF ANY PRIOR TO PAINTING EXISTING AREAS. PAINTED CABLES SHALL BE REPLACED AT THE NEGLIGENT CONTRACTOR.
4.	METAL CLAD CABLE MAY BE USED FOR FIXTURE WHIPS IN LENGTHS OF 6 FEET OR LE ACCESSIBLE SUSPENDED CEILING SYSTEM ONLY. OTHERWISE, METAL CLAD OR OTHE TYPES SHALL NOT BE USED UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER. I THESE CONTRACT DOCUMENTS THAT ALL INSTALLED BRANCH CIRCUITS CONSIST OF RACEWAY AND CONDUCTORS ALLOWING REMOVAL AND REPLACEMENT OF WIRING A FUTURE UPGRADES. REFER TO SPECIFICATIONS FOR EXCEPTIONS.
5.	CIRCUIT WIRING FOR ARTICLE 700 EMERGENCY SYSTEMS AND ARTICLE 708 CRITICAL POWER SYSTEMS SHALL BE INSTALLED IN SEPARATE CONDUITS/RACEWAYS AND BE INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT PER NEC REQUIREMENTS.
6.	ALL FEEDERS AND BRANCH CIRCUITS SHALL CONTAIN AN EQUIPMENT GROUNDING CONCORDING TO THE NEC RACEWAYS INCLUDING CONDUITS, BOXES, WIREWAYS, ETC CONSIDERED AN ACCEPTABLE GROUND.
7.	CONDUITS AND CABLING SHALL NOT BE INSTALLED WITHIN 4" OF ROOF DECK, EXCEP SERVE ROOF-MOUNTED ITEMS AND ONLY WHEN THE CONDUIT OR CABLE IS ROUTED SUCH EQUIPMENT FROM BELOW. CLEARANCE SHALL BE PERMITTED TO BE REDUCED SUPPLEMENTAL METAL FRAMING MEMBERS PROVIDE AN EFFECTIVE BARRIER BETWE AND ANY CONDUIT/CABLING.
8.	SUPPLEMENTAL METAL FRAMING SHALL BE PROVIDED FOR SUSPENSION POINTS OF A BETWEEN OVERHEAD STRUCTURAL MEMBERS (JOISTS, TRUSSES, BEAMS, ETC.) IN OF STRUCTURE CEILING AREAS. METAL FRAMING SHALL SPAN ACROSS THE TOP CHORE STRUCTURAL MEMBERS FOR BOTH STRUCTURAL AND AESTHETIC PURPOSES. SPECI SHALL BE COORDINATED IN WRITING WITH THE ARCHITECT/ENGINEER.
9.	CONDUIT INSTALLED WITHIN INACCESSIBLE CONSTRUCTION SHALL BE 3/4" MINIMUM
10.	FEEDERS SHOWN ON DRAWINGS ARE SCHEMATIC ONLY. CONDUIT RUNS SHALL COME SPECIFICATIONS AND CONTAIN BENDS THAT ARE NO GREATER THAN 90 DEGREES. C ABOVE GRADE SHALL BE RUN PARALLEL TO, OR PERPENDICULAR WITH, BUILDING ST ARCHITECTURAL LINES.
11.	CONTRACTOR(S) SHALL VERIFY COLOR/FINISH OF WIRING DEVICES, DEVICE FACEPLA RACEWAY SYSTEMS, AND/OR MULTI-OUTLET ASSEMBLIES WITH ARCHITECT/ENGINEE SPECIFIED.
12.	ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILING P ADDITIONAL INFORMATION REGARDING LIGHTING FIXTURE MOUNTING LOCATIONS, AF CEILING FINISHES.
13.	ELECTRICAL CONTRACTOR SHALL ADJUST LIGHTING FIXTURE LOCATIONS IN MECHAN ACCOMMODATE MECHANICAL EQUIPMENT, DUCTWORK, AND RELATED FIELD CONDITI
14.	CONTRACTOR(S) SHALL BE RESPONSIBLE TO REVIEW INTERIOR ELEVATION SHEETS I DEVICE BOXES. COORDINATE LOCATIONS SO THAT NO DEVICES ARE INSTALLED BEH MILLWORK, VISUAL DISPLAY BOARDS, MIRRORS, CUSTOM GRAPHICS, SIGNAGE, ETC.
15.	ELECTRICAL CONTRACTOR SHALL REVIEW TOILET EQUIPMENT SHOP DRAWINGS AND DETAILS/ELEVATIONS FOR CORRECT DEVICE BOX ROUGH-IN LOCATION OF HAND DRY
16.	ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR AND TWATER COOLER / BOTTLE FILLER SHOP DRAWINGS FOR MOUNTING HEIGHT AND CON OF PLUMBING EQUIPMENT POWER CONNECTIONS. READILY ACCESSIBLE GFCI PROTIPROVIDED FOR THE BRANCH CIRCUIT(S) SUPPLYING ALL SUCH UNITS PER NEC REQU
17.	REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR DETAILED INFORMATION REGAR AND CONTROL. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ITEMS AS SPECIFICALLY LISTED AND ASSIGNED ON MECHANICAL EQUIPMENT SCHED DISCONNECT SWITCHES, VARIABLE FREQUENCY DRIVES, STARTERS, TIMERS, SWITCH
18.	ELECTRICAL CONTRACTOR SHALL CONFIRM THE LOCATION OF THE EXHAUST FANS LI MECHANICAL EQUIPMENT SCHEDULES BY REFERRING TO MECHANICAL/HVAC PLANS.
19.	REFER TO ROOF PLANS FOR EXACT LOCATIONS OF ROOF-TOP MECHANICAL EQUIPME
20.	PROVIDE FLUSH SINGLE-GANG BOXES IN WALLS FOR HVAC / TEMPERATURE CONTRO ONE PER OCCUPIABLE ROOM OR SPACE. INSTALL 1/2" CONDUIT RACEWAY FROM BOY CORRESPONDING TEMPERATURE CONTROL SYSTEM DEVICE OR CONTROLLED UNIT. MECHANICAL DRAWINGS FOR PROPOSED LOCATIONS AND COORDINATE WITH MECHA TEMPERATURE CONTROLS CONTRACTOR'S SHOP DRAWINGS.
21.	CABINET UNIT HEATERS MAY HAVE LINE-VOLTAGE THERMOSTATS SUPPLIED BY MEC CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. REFER TO MECHA SCHEDULE.
22.	DIVISION 26 CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES WITH APPROPRIATE BI CONTROLS AND ELECTRONIC SAFETY/SECURITY CABLING THROUGH WALLS AND FLO SHALL BE COORDINATED WITH CABLING REQUIREMENTS.
23.	SECTION 27 05 28 CONTRACTOR SHALL PROVIDE DEDICATED CONDUIT SLEEVES WITH BUSHINGS THROUGH WALLS AND FLOORS FOR DIV. 27 COMMUNICATIONS AND DIV. 28 CABLING. SLEEVE SIZE SHALL BE MINIMUM 2" DIA. OR EQUIVALENT FREE AREA UNLES OTHERWISE. SPECIFIED CABLE PATHWAY PENETRATION DEVICES SHALL BE SUBSTIT SLEEVES WHERE THERE IS A REQUIRED RATING IN THE CONSTRUCTED ASSEMBLY.
24	BUILDING SYSTEMS CABLING SHALL BE SLEEVED WHERE CABLES PASS THROUGH W

- 4. BUILDING SYSTEMS CABLING SHALL BE SLEEVED WHERE CABLES PASS THROUGH WALLS. NO CABLING SHALL PASS THROUGH OR OVER THE TOP OF WALL CONSTRUCTION WITHOUT THE USE OF A SLEEVE. DIVISION 26 CONTRACTOR SHALL PROVIDE SLEEVES (UNLESS OTHERWISE ASSIGNED) AND COORDINATE WITH ARCHITECTURAL TRADES DURING THE WALL CONSTRUCTION PROCESS.
- 25. PROVIDE DIRECT CONNECTIONS FROM DEDICATED STANDBY POWER SYSTEM BRANCH CIRCUIT(S) TO ACCESS CONTROL SYSTEM AND DOOR HARDWARE POWER SUPPLIES WHERE REQUIRED FOR DOOR LOCK DEVICES, CONTROLLERS, ETC. REFER TO DOOR HARDWARE SCHEDULE AND ACCESS CONTROL SYSTEM SCHEDULE IN RESPECTIVE SPECIFICATIONS FOR QUANTITIES AND LOCATIONS. 26. ALL CONTROLS, COMMUNICATIONS, AND ELECTRONIC SAFETY/SECURITY CABLING SHALL BE PLENUM RATED ON THIS PROJECT.















D -OR- 3 PHASE, 3 WIRE WITH GROUND		3 PHASE, 4 WIRE WITH GROUND			
FILL	TAG	FILL			
GRD IN 1-1/4" CONDUIT	A100NG	(4) #1 AWG + (1) #6 AWG GRD IN 1-1/4" CONDUIT			
G GRD IN 1-1/4" CONDUIT	A120NG	(4) #1/0 AWG + (1) #4 AWG GRD IN 1-1/2" CONDUIT			
G GRD IN 1-1/2" CONDUIT	A135NG	(4) #2/0 AWG + (1) #4 AWG GRD IN 2" CONDUIT			
G GRD IN 1-1/2" CONDUIT	A155NG	(4) #3/0 AWG + (1) #4 AWG GRD IN 2" CONDUIT			
G GRD IN 2" CONDUIT	A180NG	(4) #4/0 AWG + (1) #4 AWG GRD IN 2" CONDUIT			
/G GRD IN 2" CONDUIT	A205NG	(4) 250 KCMIL + (1) #2 AWG GRD IN 2-1/2" CONDUIT			
/G GRD IN 2-1/2" CONDUIT	A230NG	(4) 300 KCMIL + (1) #2 AWG GRD IN 2-1/2" CONDUIT			
/G GRD IN 2-1/2" CONDUIT	A250NG	(4) 350 KCMIL + (1) #2 AWG GRD IN 3" CONDUIT			
'G GRD IN 2-1/2" CONDUIT	A270NG	(4) 400 KCMIL + (1) #2 AWG GRD IN 3" CONDUIT			
/G GRD IN 3" CONDUIT	A310NG	(4) 500 KCMIL + (1) #1 AWG GRD IN 3" CONDUIT			
/G GRD IN 3" CONDUIT	A340NG	(4) 600 KCMIL + (1) #1 AWG GRD IN 3-1/2" CONDUIT			
CMIL + (1) #1 AWG GRD IN 2" CONDUIT]	A400NG	TWO PARALLEL [(4) 250 KCMIL + (1) #1 AWG GRD IN 2-1/2" CONDUIT]			
CMIL + (1) #1/0 AWG GRD IN 2-1/2" CONDUIT]	A500NG	TWO PARALLEL [(4) 350 KCMIL + (1) #1/0 AWG GRD IN 3" CONDUIT]			
CMIL + (1) #2/0 AWG GRD IN 3" CONDUIT]	A600NG	TWO PARALLEL [(4) 500 KCMIL + (1) #2/0 AWG GRD IN 3" CONDUIT]			
0 KCMIL + (1) #3/0 AWG GRD IN 3" CONDUIT]	A800NG	THREE PARALLEL [(4) 500 KCMIL + (1) #3/0 AWG GRD IN 3" CONDUIT]			
KCMIL + (1) #4/0 AWG GRD IN 2-1/2" CONDUIT]	A1000NG	FOUR PARALLEL [(4) 350 KCMIL + (1) #4/0 AWG GRD IN 3" CONDUIT]			
KCMIL + (1) 250 KCMIL GRD IN 3" CONDUIT]	A1200NG	FOUR PARALLEL [(4) 500 KCMIL + (1) 250 KCMIL GRD IN 3" CONDUIT]			
CMIL + (1) 350 KCMIL GRD IN 3" CONDUIT]	A1600NG	SIX PARALLEL [(4) 500 KCMIL + (1) 350 KCMIL GRD IN 3-1/2" CONDUIT]			
0 KCMIL + (1) 500 KCMIL GRD IN 3-1/2" CONDUIT	A2000NG	SEVEN PARALLEL [(4) 500 KCMIL + (1) 500 KCMIL GRD IN 3-1/2" CONDUIT			
) KCMIL + (1) 600 KCMIL GRD IN 3-1/2" CONDUIT]	A2500NG	EIGHT PARALLEL [(4) 600 KCMIL + (1) 600 KCMIL GRD IN 3-1/2" CONDUIT			
CMIL + (1) 600 KCMIL GRD IN 3-1/2" CONDUIT]	A3000NG	NINE PARALLEL [(4) 600 KCMIL + (1) 600 KCMIL GRD IN 3-1/2" CONDUIT]			

BASED ON NEC TABLE 310.15(B)(16) FOR COPPER CONDUCTORS APPLIED AT 75°C RATING			
1 PHASE, 3 WIRE WITH GROUND -OR- 3 PHASE, 3 WIRE WITH GROUND		3 PHASE, 4 WIRE WITH GROUND	
TAG	FILL	TAG	FILL
20G	(3) #12 AWG + (1) #12 AWG GRD IN 3/4" CONDUIT	20NG	(4) #12 AWG + (1) #12 AWG GRD IN 3/4" CONDUIT
30G	(3) #10 AWG + (1) #10 AWG GRD IN 3/4" CONDUIT	30NG	(4) #10 AWG + (1) #10 AWG GRD IN 3/4" CONDUIT
50G	(3) #8 AWG + (1) #10 AWG GRD IN 3/4" CONDUIT	50NG	(4) #8 AWG + (1) #10 AWG GRD IN 1" CONDUIT
65G	(3) #6 AWG + (1) #8 AWG GRD IN 1" CONDUIT	65NG	(4) #6 AWG + (1) #8 AWG GRD IN 1" CONDUIT
85G	(3) #4 AWG + (1) #8 AWG GRD IN 1" CONDUIT	85NG	(4) #4 AWG + (1) #8 AWG GRD IN 1-1/4" CONDUIT
100G	(3) #3 AWG + (1) #8 AWG GRD IN 1-1/4" CONDUIT	100NG	(4) #3 AWG + (1) #8 AWG GRD IN 1-1/4" CONDUIT
115G	(3) #2 AWG + (1) #6 AWG GRD IN 1-1/4" CONDUIT	115NG	(4) #2 AWG + (1) #6 AWG GRD IN 1-1/2" CONDUIT
130G	(3) #1 AWG + (1) #6 AWG GRD IN 1-1/2" CONDUIT	130NG	(4) #1 AWG + (1) #6 AWG GRD IN 2" CONDUIT
150G	(3) #1/0 AWG + (1) #6 AWG GRD IN 1-1/2" CONDUIT	150NG	(4) #1/0 AWG + (1) #6 AWG GRD IN 2" CONDUIT
175G	(3) #2/0 AWG + (1) #6 AWG GRD IN 2" CONDUIT	175NG	(4) #2/0 AWG + (1) #6 AWG GRD IN 2" CONDUIT
200G	(3) #3/0 AWG + (1) #6 AWG GRD IN 2" CONDUIT	200NG	(4) #3/0 AWG + (1) #6 AWG GRD IN 2-1/2" CONDUIT
230G	(3) #4/0 AWG + (1) #4 AWG GRD IN 2-1/2" CONDUIT	230NG	(4) #4/0 AWG + (1) #4 AWG GRD IN 2-1/2" CONDUIT
255G	(3) 250 KCMIL + (1) #4 AWG GRD IN 2-1/2" CONDUIT	255NG	(4) 250 KCMIL + (1) #4 AWG GRD IN 3" CONDUIT
285G	(3) 300 KCMIL + (1) #4 AWG GRD IN 2-1/2" CONDUIT	285NG	(4) 300 KCMIL + (1) #4 AWG GRD IN 3" CONDUIT
310G	(3) 350 KCMIL + (1) #3 AWG GRD IN 3" CONDUIT	310NG	(4) 350 KCMIL + (1) #3 AWG GRD IN 3" CONDUIT
335G	(3) 400 KCMIL + (1) #3 AWG GRD IN 3" CONDUIT	335NG	(4) 400 KCMIL + (1) #3 AWG GRD IN 3-1/2" CONDUIT
380G	(3) 500 KCMIL + (1) #3 AWG GRD IN 3" CONDUIT	380NG	(4) 500 KCMIL + (1) #3 AWG GRD IN 3-1/2" CONDUIT
420G	(3) 600 KCMIL + (1) #2 AWG GRD IN 3-1/2" CONDUIT	420NG	(4) 600 KCMIL + (1) #2 AWG GRD IN 3-1/2" CONDUIT
500G	TWO PARALLEL [(3) 250 KCMIL + (1) #2 AWG GRD IN 2-1/2" CONDUIT]	500NG	TWO PARALLEL [(4) 250 KCMIL + (1) #2 AWG GRD IN 3" CONDUIT]
600G	TWO PARALLEL [(3) 350 KCMIL + (1) #1 AWG GRD IN 3" CONDUIT]	600NG	TWO PARALLEL [(4) 350 KCMIL + (1) #1 AWG GRD IN 3" CONDUIT]
800G	TWO PARALLEL [(3) 600 KCMIL + (1) #1/0 AWG GRD IN 3-1/2" CONDUIT]	800NG	TWO PARALLEL [(4) 600 KCMIL + (1) #1/0 AWG GRD IN 3-1/2" CONDUIT]
1000G	THREE PARALLEL [(3) 500 KCMIL + (1) #2/0 AWG GRD IN 3" CONDUIT]	1000NG	THREE PARALLEL [(4) 500 KCMIL + (1) #2/0 AWG GRD IN 3-1/2" CONDUIT]
1200G	FOUR PARALLEL [(3) 350 KCMIL + (1) #3/0 AWG GRD IN 3" CONDUIT]	1200NG	FOUR PARALLEL [(4) 350 KCMIL + (1) #3/0 AWG GRD IN 3" CONDUIT]
1600G	FIVE PARALLEL [(3) 500 KCMIL + (1) #4/0 AWG GRD IN 3" CONDUIT]	1600NG	FIVE PARALLEL [(4) 500 KCMIL + (1) #4/0 AWG GRD IN 3-1/2" CONDUIT]
2000G	SIX PARALLEL [(3) 500 KCMIL + (1) 250 KCMIL GRD IN 3-1/2" CONDUIT]	2000NG	SIX PARALLEL [(4) 500 KCMIL + (1) 250 KCMIL GRD IN 3-1/2" CONDUIT]
2500G	SEVEN PARALLEL [(3) 500 KCMIL + (1) 350 KCMIL GRD IN 3-1/2" CONDUIT]	2500NG	SEVEN PARALLEL [(4) 500 KCMIL + (1) 350 KCMIL GRD IN 3-1/2" CONDUIT]
3000G	EIGHT PARALLEL [(3) 500 KCMIL + (1) 500 KCMIL GRD IN 3-1/2" CONDUIT]	3000NG	EIGHT PARALLEL [(4) 500 KCMIL + (1) 500 KCMIL GRD IN 3-1/2" CONDUIT]

INPUT CONNECTION POINT

TEMPORARY POWER DOCKING STATION W/ MANUAL TRANSFER SWITCH 100A MIN., 3-POLE (SECTION 26 36 13)

NEC ARTICLE 700 EMERGENCY SYSTEMS AUTOMATIC TRANSFER SWITCH, 100A MIN., 4-POLE



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EMENT NEV



ISSUANCES 09.16.2021 BIDS & CONSTRUCTION 02/17/2022 BULLETIN 002 03.31.2022 BULLETIN 004 04.15.2022 BULLETIN 005

DRAWN BDD REVIEWED AAM

PROJECT NO.

5-4922

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POWER DISTRIBUTION ONE-LINE DIAGRAM


P	ANELBOARD: PA LOCATION: ELECTR MOUNTING: SURFAC ENCLOSURE: TYPE 1	NEL ' RICAL B143 CE	'MSE	3'	distributi (Su	DN SYSTEM: SCCR: PPLY FROM:	480Y/277V 3 35KA	PH 4W			MA MAIN	INS TYPE: MAIN CIRCUIT BREAKER S RATING: 1,600 A	
Р	PROVIDE WITH THE FOLLOWING:												
CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES		A		В	(c	POLES	TRIP		CIRCUIT
MSB-1				74,567	28,440				(ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	MSB-2
MSB-3	CHILLER	500 A	3			74,567	26,620		\	3	135 A	XFMR'T-K'	MSB-4
MSB-5		$\widehat{}$	\sim					74,567	21,812			5	MSB-6
MSB-7				2,611	27,915								MSB-8
MSB-9	PANEL 'LPB'	125 A	3	2		3,904	26,836			3	250 A	PANEL 'DPC'	MSB-10
MSB-11				3				3,079	19,693			L L	MSB-12
MSB-13	l J			25,531	35,292				<u>}</u>				MSB-14
MSB-15	PANEL 'DPD'	250 A	3	3		25,054	33,026		<u>ح</u>	3	250 A	PANEL 'DPA'	MSB-16
MSB-17	ζ.			<u>ר</u>				21,137	29,864				MSB-18
MSB-19		\mathcal{M}		18,140	27,172				Ĺ				MSB-20
MSB-21	PANEL 'SB1'	100 A	3			16,340	30,770			3	175 A	XFMR 'T-B'	MSB-22
MSB-23								16,880	30,254				MSB-24
MSB-25				4,229					<u> </u>	~	~	مر	MSB-26
MSB-27	PANEL 'EM1'	100 A	3			3,229							MSB-28
MSB-29		\sim	\sim					2,829	<u> </u>	$\widehat{}$	\sim		MSB-30
MSB-31	6		•	5,820	3,048				(3	MSB-32
MSB-33	AHU-1	40 A	3			5,820	3,048		3	3	20 A	AHU-4	MSB-34
MSB-35	l C			Z				5,820	3,048				MSB-36
MSB-37	<u> </u>			942	8,567					く		P	MSB-38
MSB-39	AHU-3	15 A	3	2		942	8,567			3	45 A	RTU-1	MSB-40
MSB-41	ز ک ر			ノ				942	8,567				MSB-42
MSB-43		-		1,330	2,106								MSB-44
MSB-45	RAF-1	15 A	3			1,330	2,106			3	15 A	RAF-2	MSB-46
MSB-47								1,330	2,106				MSB-48
MSB-49				942	5,820								MSB-50
MSB-51	RAF-3	20 A	3			942	5,820			3	25 A	P-2	MSB-52
MSB-53								942	5,820				MSB-54
MSB-55				5,820	7,482								MSB-56
MSB-57	P-1	25 A	3	,	,	5.820	7.482			3	40 A	P-3	MSB-58
MSB-59	-							5.820	7.482		-		MSB-60
MSB-61				7.482	1.593			- /					MSB-62
MSB-63	 P-4	40 A	3	.,	.,	7,482	1.593			3	20 A	P-12.14	MSB-64
MSB-65						.,	.,	7 482	1 593	Ū		,	MSB-66
MSB-67				1.275				.,	.,				MSB-68
MSB-69	P-13	20 A	3	.,		1.275							MSB-70
MSB-71	· ·	2077				1,210		1,275					MSB-72
MSB-73								.,_;0					MSB-74
MSR_75													MSR_76
MSR-77													MSR-78
MSR_70				0	0								MSR_80
MCR_Q1				0	0	0	0						MCR_22
MSD-01						0	0	0	0				
10130-03	FREFARED SPACE			206.1	24.)/A	202.5	72.\/A	0				PREFARED SPACE	10130-04
		FRA	SE LOAD:	290,1	24 VA	292,5	73 VA	272,3	346 VA			TOTAL CONNECTED LOAD	: 861.0 kVA : 1,036 A
NOTES:													
P	ANELBOARD: PAI LOCATION: MECH M MOUNTING: SURFAC	NEL ' MEZZ B201 CE	'DPE	3'	DISTRIBUTIO	ON SYSTEM: SCCR:	208Y/120V 3 18KA	PH 4W			MA	INS TYPE: MAIN CIRCUIT BREAKER S RATING: 400 A	

P.	ANELBUARD: I	PANEL	DPC)									
	LOCATION: M	IECH MEZZ B20	1		DISTRIBUTIO	ON SYSTEM:	208Y/120V 3	BPH 4W			MA	INS TYPE: MAIN CIRCUIT BREAKER	
	MOUNTING: S	URFACE				SCCR:	18KA				MAIN	S RATING: 400 A	
	ENCLOSURE: T	YPE 1			SU	PPLY FROM:	XFMR 'T-B'						
F	PROVIDE WITH THE FOLLOWING:												
CIRCUIT	CIRCUIT DESCRIPTION	RIP	POLES		A		В		С	POLES	TRIP	CIRCUIT DESCRIPTION	CIRCUIT
DPB-1		(19,204	7,968								DPB-2
DPB-3	PANEL 'B1'	250 A	A 3			21,542	9,228			3	225 A	PANEL 'B2'	DPB-4
DPB-5			سمه بلمه	/				20,390	9,864				DPB-6
DPB-7													DPB-8
DPB-9													DPB-10
DPB-11													DPB-12
DPB-13													DPB-14
DPB-15													DPB-16
DPB-17													DPB-18
DPB-19	PREPARED SPACE			0	0							PREPARED SPACE	DPB-20
DPB-21	PREPARED SPACE					0	0					PREPARED SPACE	DPB-22
DPB-23	PREPARED SPACE							0	0			PREPARED SPACE	DPB-24
DPB-25	PREPARED SPACE			0	0							PREPARED SPACE	DPB-26
DPB-27	PREPARED SPACE					0	0					PREPARED SPACE	DPB-28
DPB-29	PREPARED SPACE							0	0			PREPARED SPACE	DPB-30
		PH	ASE LOAD:	27,1	72 VA	30,77	70 VA	30,25	54 VA				
												TOTAL CONNECTED LOAD:	88.2 kVA
												TOTAL CONNECTED CURRENT:	245 A
NOTES:													

	LOCATION: KITCHEN F MOUNTING: SURFACE ENCLOSURE: TYPE 1	B148			DISTRIBUTI SU	ON SYSTEM: SCCR: PPLY FROM:	208Y/120V 3 10KA XFMR 'T-K'	3PH 4W			M4 MAIN	AINS TYPE: MAIN BREAKER IS RATING: 300 A
	PROVIDE WITH THE FOLLOWING: DOUBLE T	UB	1			T		1				
CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES		A		в		с	POLES	TRIP	CIRCUIT DESCRIPTION
K-1		20 A	2	1,560	1,920					1	20 A	AWALK IN FREEZER/COOLER
K-3		2073	_			1,560	600			1	20 A	COOLER COIL
K-5	GEN RECEPT GFCI BRKR	20 A	1					1,200	1,440	1	20 A	MIXER GFCI BRKR
K-7	HOT FOOD CAB GFCI BRKR	20 A	1	1,620	1,440					1	20 A	HOT FD CAB GFCI BRKR
K-9	EQUIPMENT KITCHEN B148	20 A	1			1,152	4,000			1	45 A	REFRIGERATOR GFCI BRKR
K-11	FREEZER GFCI BRKR	20 A	1					1,164	180	1	20 A	POINT OF SALES GFCI BRKR
K-13	MICROWAVE GFCI BRKR	20 A	1	1,608	1,212					1	20 A	COOLER RECEPTACLE GFCI BRK
K-15		20 A	1			1,212	900			1	20 A	DW EX HOOD
K-17	DRAIN WATER TEMP KIT	20 A	1					900	1,040			
K-19		~ .		693	1,040					3	20 A	FREEZER COMPRESSOR CAFETE
K-21	COOLER COMPRESSOR CAFETERIA B151	20 A	3			693	1,040	000	4 000			
K-23					1.040			693	1,200	1	20 A	GEN RECEPT GFCI BRKR
K-25		00.4		693	1,040	000	4.040			_	00.4	
K-27	EHAUST FAN & CURB KITCHEN B148	20 A	3			693	1,040	000	1.040	3	20 A	MAKEUP AIR UNIT KITCHEN B148
K-29				2 1 4 0	459			693	1,040			
K-31		20.4	2	3,140	400	2 1 4 9	450				20.4	DISDOCAL
K-33		20 A	3			3,140	400	2 1 4 9	450	3	20 A	DISPOSAL
K-30		45 A	1	3 036	3 936			3,140	436	1	15 A	
K-30		45 A	1	3,930	3,930	2.052	2.052			1	43 A 25 Δ	
K-41		20 A	1			2,002	2,052	1 620	1 040	1	23 A	
K-43	CUH-4 MOTORIZED SCREEN AND ADA	20 A	1	696	1 040			1,020	1,040	3	20 A	FREEZER COIL HEAT TAPE
K-45	DROP CORDS GECI BRKR	25 A	1	000	1,040	2 400	1 040				2071	
K-47	DROP CORDS GECI BRKR	25 A	1			2,100	1,010	2 400	1 200	1	20 A	RECEPTACI E KITCHEN B148
K-49	GAS SHUT OFF	20 A	1	1.200	1.200			2,100	1,200	1	20 A	HOOD
K-51	RECEPTACLE KITCHEN B148	25 A	1	.,	.,	2 400	180			1	20 A	POINT OF SALES GFCI BRKR
K-53	GEN RECEPT GFCI BRKR	20 A	1			2,100	100	1.200	1.200	1	20 A	RECEPTACLE SERVING B149
K-55			-					.,	.,			
K-57												
K-59												
K-61												
K-63												
K-65												
K-67												
K-69												
K-71												
K-73												
K-75												
K-77												
K-79	SPARE	20 A	1	0	0					1	20 A	SPARE
K-81	SPARE	20 A	1			0	0			1	20 A	SPARE
K-83	SPARE	20 A	1					0	0	1	20 A	SPARE
-		PHA	SE LOAD:	28,4	40 VA	26.6	20 VA	21,8	16 VA			

NOTES: DOUBLE TUB

		P	ANELBOARD: PA	NEL	'DPA	.'									
ER			Location: Elect Mounting: Surfa Enclosure: Type 1	RICAL A136 CE			DISTRIBUTIC SUI	ON SYSTEM: SCCR: PPLY PROM	18077277V 18KA ANFL MSI	BPH 4W B'			MA MAIN MC	INS TYPE: MAIN CIRCUIT BREAKER S RATING: 600 A B RATING: 250 A	
		P	ROVIDE WITH THE FOLLOWING: INTEG	RAL SPD											
1	CIRCUIT	CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES		A		В		C	POLES	TRIP	CIRCUIT DESCRIPTION	(
	MSB-2	DPA-1	LIGHTING - GENERAL	20 A	1	1,855	1,890					1	20 A	LIGHTING - GENERAL	
	MSB-4	DPA-3						22,128	2,030			1	20 A	LIGHTING - GENERAL	
	MSB-6	DPA-5	'T-A'	90 A	3					20,280	716	1	20 A	LIGHTING - GENERAL	
	MSB-8	DPA-7			مر	20,544	2,135						20A		
	MSB-10	DPA-9						5,820	2,106			6	•		
	MSB-12	DPA-11	AHU-5 SUPPLY	25 A	3					5,820	2,106	3	15 A	AHU-5 EXHAUST	
	MSB-14	DPA-13				5,820	2,106					7			
	MSB-16	DPA-15						942	0			2			
	MSB-18	DPA-17	EF-17	20 A	3					942	0	3	20 A	RAF-4	
	MSB-20	DPA-19				942	0					\			
	MSB-22	DPA-21	PREPARED SPACE					0	0			\mathbf{r}	ヘーノ	AREPAREN SPACEN M	
	MSB-24	DPA-23	PREPARED SPACE							0	0			PREPARED SPACE	
	MSB-26	DPA-25	PREPARED SPACE			0	0			-				PREPARED SPACE	
	MSB-28	DPA-27	PREPARED SPACE					0	0					PREPARED SPACE	
	MSB-30	 DPA-29	PREPARED SPACE							0	0			PREPARED SPACE	
	MSB-32			PHA	SE LOAD:	35,2	92 VA	33,02	26 VA	29,80	54 VA		I	1	
	MSB-34													TOTAL CONNECTED LOA	AD: 9
	MSB-36													TOTAL CONNECTED CURREN	NT:
	MSB-38														
	MSB-40	NOTES:													
	MSB-42														
	MSB-44														
	MSB-46	P		NFI	'SR1										
	MSB-48														
	MSB-50		LOCATION: ELECT	RICAL B143			DISTRIBUTIO	ON SYSTEM:	480Y/277V 3	3PH 4W			MA	INS TYPE: MAIN CIRCUIT BREAKER	
	MSB-52		MOUNTING: SURFA	CE				SCCR:	18KA				MAIN	S RATING: 125 A	
	MSB-54		ENCLOSURE: TYPE 1				SU	PPLY FROM:	PANEL 'MSI	B'					
	MSB-56														
	MSB-58	P	ROVIDE WITH THE FOLLOWING: INTEGR	RAL SPD											
	MSB-60									1					
	MSB-62	CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES		Α		в		С	POLES	TRIP	CIRCUIT DESCRIPTION	(
	MSB-62	SB1-1				6,253	5,820								
	MSB_66	SB1-3	'T-SB'	90 A	3			4,453	5,820			3	60 A	AHU-2 SUPPLY	
		SB1-5						,		4,993	5.820				
	11130-00									,	.,	-			

35 A 3

20 A 1

20 A 1

PHASE LOAD:

20 A 1 0

3,033 3,033

18,140 VA

3,033 3,033

0

16,340 VA

3,033

0

16,880 VA

3,033

TOTAL CONNECTED CURRENT: 62 NOTES: PANELBOARD: PANEL 'SB2' LOCATION: ELECTRICAL B143 DISTRIBUTION SYSTEM: 208Y/120V 3PH 4W MOUNTING: SURFACE SCCR: 10KA MAINS RATING: 250 A MCB RATING: 250 A ENCLOSURE: TYPE 1 SUPPLY FROM: 'T-SB' PROVIDE WITH THE FOLLOWING: INTEGRAL SPD m TRIP POLES POLES TRIP CIRCUIT CIRCUIT DESCRIPTION CIRCUIT DESCRIPTION 1 20 A RECEPTACLE TELECOM B155 SB2-1 RECEPTACLE TELECOM B155 20 A 1 0 360 SB2-3 RECEPTACLE TELECOM B155 360 SB2-5 2,700 360 SB2-7 PANEL 'SB-3' 100 A 3 720 80 A NEL 'SB-4' 1,800 360 SB2-9 SB2-11 1,933 60 A 3 1,933 SB2-13 DPB-1 SB2-15 1,933 SB2-17 SB2-19 SB2-21 SB2-23 SB2-25 SPARE 20 A 1 0 SB2-27 SPARE 20 A 1 0 SB2-29 SPARE 20 A 1 0 PHASE LOAD: 6,253 VA 4,453 VA 4,993 VA TOTAL CONNECTED LOAD: 15.7 TOTAL CONNECTED CURRENT:

DISTRIBUTION SYSTEM: 208Y/120V 3PH 4W

SUPPLY FROM: PANEL 'DPB'

SCCR: 10KA



SB1-7

SB1-11

SB1-13

SB1-15

SB1-17

SB1-19

SB1-21

SB1-23

NOTES:

PANELBOARD: PANEL 'B1'

LOCATION: BOILER B142

MOUNTING: SURFACE

ENCLOSURE: TYPE 1

SB1-25 SPARE

SB1-27 SPARE

SB1-29 SPARE

SB1-9 B-1

CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES		Α		3		С	POLES	TRIP	CIRCUIT DESCRIPTION	CI
B1-1	RECEPTACLE LEARNING COMMONS-1	20 A	1	1,260	900					1	20 A	RECEPTACLE	
B1-3	VUV-15,16	25 A	1			2,400	540			1	20 A	CORD REELS	
B1-5	CORD REELS	20 A	1					540	720	1	20 A	RECEPTACLE MAKER SPACE B126	
B1-7	RECEPTACLE MAKER SPACE B126	20 A	1	1,080	1,440					1	20 A	RECEPTACLE ART B127	
B1-9		50.0	2			4,160	1,260			1	20 A	RECEPTACLE CORRIDOR B131	E
B1-11		50 A	2					4,160	1,260	1	20 A	RECEPTACLE SPECIAL ED. CLASSROOM	E
B1-13	RECEPTACLE	20 A	1	1,260	180					1	20 A	FUTURE SCOREBOARD	E
B1-15	MOTORIZED BACKBOARD	20 A	1			1,656	1,656			1	20 A	MOTORIZED BACKBOARD	E
B1-17	EQUIPMENT	20 A	1					720	1,080	1	20 A	RECEPTACLE GYMNASIUM B136	E
B1-19	SCOREBOARD	20 A	1	180	360					1	20 A	EWC GFCI BRKR	E
B1-21													E
B1-23	SOUND SYSTEM RECEPTACLE	30 A	1					360	900	1	20 A	RECEPTACLE GYMNASIUM B136	E
B1-25	RECEPTACLE STORAGE B150	20 A	1	1,800	4,000					1	20 A	REFRIGERATOR GFCI BRKR	E
B1-27	RECEPTACLE SERVING B149	20 A	1			900	1,080			1	20 A	RECEPTACLE CAFETERIA B151	E
B1-29	RECEPTACLE CAFETERIA B151	20 A	1					1,440	540	1	20 A	EQUIPMENT	E
B1-31	EQUIPMENT	20 A	1	540	180					1	20 A	CHILLER RECEPT	E
B1-33	RECEPTACLE LOADING B144	20 A	1			1,080	180			1	20 A	EVAP HTR	E
B1-35		20 A	1					900	1,116	1	20 A	EF-16,EF-17, UH-1	E
B1-3/	AHU-2 LTS SWTICHES	20 A	1	720	900					1	20 A	RECEPTACLE CAFETERIA B151	E
B1-39	EF-14, UH-1, OVERHEAD DOOR	20 A	1			1,200	864			1	20 A	EF-6, EF-7, CUH-5	E
		20 A	1					900	720	1	20 A	AHU-LTS/RECEPT	E
B1-43	AHU-4 RECEPT	20 A	1	720	720					1	20 A	AHU-4 LTS/SWITCHES	E
B1-45	AHU-3 RECEPT	20 A	1			720	720			1	20 A	AHU-3 LTS/SWITCHES	E
B1-47									60	1	20 A	CUH-11	E
B1-49	RECEPTACLE	20 A	1	540	1,176					1	20 A	GF-1 GLYCOL TANAK CLG	E
B1-51	GF-2 GLYCOL TANK SNWMLT	20 A	1			1,176	1,200			1	20 A	VAV-13,14,15,16,17,18	E
B1-53	P-5, P-8	25 A	1					2,040	2,184	1	25 A	P-6, P-7	E
B1-55	DHW-1,2	20 A	1	600	648					1	20 A	RCP-1,2	E
B1-57	000114	20.4	2			750							E
B1-59	- 5500-1	20 A	2					750					E
B1-61													E
B1-63													E
B1-65													E
B1-67	SPARE	20 A	1	0	0					1	20 A	SPARE	E
B1-69	SPARE	20 A	1			0	0			1	20 A	SPARE	E
B1-71	SPARE	20 A	1					0	0	1	20 A	SPARE	E
		PHA	SE LOAD:	19,2	04 VA	21,54	12 VA	20,39	90 VA				·
			l			1		1				TOTAL CONNECTED LOAD:	61
													-

MAIN CIRCUIT BREAKER		F	PANELBOARD: PA	NEL RICAL A136 CE	'A1'		DISTRIBUTIC	ON SYSTEM: SCCR:	208Y/120V 10KA	3PH 4W		(M	AINS TYPE: MAIN BREAKER NS RATING: 225 A
250 A			ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING:				SUI	PPLY FROM:	'T-A'				ك	·····
CIRCUIT DESCRIPTION	CIRCUIT	CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES		A		B	c	;	POLES	TRIP	CIRCUIT DESCRIPTION
GENERAL	DPA-2	A1-1		20 A	1	1,260	1,080	1.080	900			1	20 A	
GENERAL	DPA-6	A1-5	RECEPTACLE LOWER EL. A106	20 A	1			1,000		900	1,440	1	20 A	RECEPTACLE LOWER EL. A106
	DPA-8	A1-7	RECEPTACLE GROUP AREA-1 A107-1	20 A	1	1,260	900					1	20 A	RECEPTACLE LOWER EL. A117
	DPA-10	A1-9	RECEPTACLE LOWER EL. A118	20 A	1			1,260	1,500			1	20 A	ELECT HAND DRYER
(HAUST	DPA-12	A1-11		20 A	1	4 500	1.500			1,500	1,260	1	20 A	RECEPTACLE LOWER EL. A118
	DPA-14	A1-13 A1-15		20 A	1	1,500	1,500	180	1,260			1	20 A	RECEPTACI E KINDERGARTEN A
	DPA-18	A1-17	RECEPTACLE KINDERGARTEN A110	20 A	1				.,	1,620	1,260	1	20 A	RECEPTACLE KINDERGARTEN A
	DPA-20	A1-19	RECEPTACLE GROUP AREA-1 A108-1	20 A	1	1,440	1,440					1	20 A	RECEPTACLE TOILET A111
	DPA-22	A1-21	RECEPTACLE KINDERGARTEN A114	20 A	1			1,620	1,440			1	20 A	RECEPTACLE RESOURCE A137
ED SPACE	DPA-24	A1-23	RECEPTACLE CORRIDOR A126	20 A	1	4 000	000			1,440	1,260	1	20 A	
ED SPACE	DPA-26 DPA-28	A1-25 A1-27	RECEPTACLE STAFF A121 RECEPTACLE D KINDERGARTEN A126	20 A	1	1,260	300	1 080	1 260			1	20 A	
ED SPACE	DPA-30	A1-29	RECEPTACLE D.KINDERGARTEN A129	20 A	1			1,000	1,200	1,260	1,260	1	20 A	RECEPTACLE D.KINDERGARTEN
		A1-31	RECEPTACLE D.KINDERGARTEN A131	20 A	1	1,440	900					1	20 A	AHU-5 RECEPT
TOTAL CONNECTED LOAD:	98.2 kVA	A1-33	AHU-5 SWITCHES/LTS	20 A	1			720	900			1	20 A	AHU-6 RECEPTACLE
TOTAL CONNECTED CURRENT:	118 A	A1-35	AHU-6 LTS/SWITCHES	20 A	1					720	924	1	20 A	CUH-3, P-9
		A1-37	REC POND GROUP AREA A130	20 A	1	900			1.080			1	20.4	
		A1-39	REC WOODLANDS GROUP AREA-1 A107-	-1 20 A	1				1,000	720	180	1	20 A	
		A1-43	VUV-11,1	25 A	1	2,400	2,400			120	100	1	25 A	VUV-2,3
		A1-45	VUV-5,6	25 A	1			2,400	2,400			1	25 A	VUV-4,12
MAIN CIRCUIT BREAKER		A1-47	VUV-7,8	25 A	1					2,400	2,400	1	25 A	VUV-10,11
125 A		A1-49	CUH-1, CUH-2, EF-2	20 A	1	648	1,500	4 200				1	20 A	EF-3, EF-1, EF-4
		A1-51 A1-53	VAV-1,2,3,4,5,6	20 A	1			1,200						
		A1-55										-		
		A1-57										-		
		A1-59												
CIRCUIT DESCRIPTION		A1-61												
	SB1-2 SB1-4	A1-63										L		
	SB1-4	A1-65	SDADE	20.4	1	0	0					1	20.4	SDADE
	SB1-8	A1-69	SPARE	20 A	1	0	0	0	0			1	20 A	SPARE
	SB1-10	A1-71	SPARE	20 A	1					0	0	1	20 A	SPARE
	SB1-12			PHA	SE LOAD:	22,1	28 VA	20,28	80 VA	20,54	4 VA			
	SB1-14													TOTAL CONNECT
	SB1-16													TOTAL CONNECTED C
	SB1-16 SB1-18 SB1-20	NOTES:												TOTAL CONNECTED C
	SB1-16 SB1-18 SB1-20 SB1-22	NOTES:												TOTAL CONNECTED C
	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24	NOTES:												TOTAL CONNECTED C
	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26	NOTES:												TOTAL CONNECTED C
	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28	NOTES:												TOTAL CONNECTED C
	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30	NOTES:				2'								TOTAL CONNECTED C
TOTAL CONNECTED LOAD:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-28 SB1-30 51.4 kVA	NOTES:	PANELBOARD: PA	NEL	'SB-(3'								TOTAL CONNECTED C
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A	NOTES:	PANELBOARD: PA LOCATION: ELECTE	NEL RICAL A136	'SB-(3'	DISTRIBUTIC	DN SYSTEM:	208Y/120V	3PH 4W				AINS TYPE: MAIN CIRCUIT BREAKE
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A	NOTES:	PANELBOARD: PA Location: Electe Mounting: Surfac ENCLOSURE: TYPE 1	NEL RICAL A136 CE	'SB-(3'	DISTRIBUTIC	DN SYSTEM: SCCR: PPLY FROM:	208Y/120V 10KA PANEL 'SB2	3PH 4W			MAIN	AINS TYPE: MAIN CIRCUIT BREAKE
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A	NOTES:	PANELBOARD: PA Location: electr Mounting: surfac Enclosure: type 1	NEL RICAL A136 CE	'SB-(3'	DISTRIBUTIC	DN SYSTEM: SCCR: PPLY FROM:	208Y/120V 10KA PANEL 'SB2	3PH 4W 2'			MAIN	AINS TYPE: MAIN CIRCUIT BREAKE
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A	NOTES:	PANELBOARD: PA Location: Electre Mounting: Surfac Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGR	NEL RICAL A136 CE RAL SPD	'SB-	3'	DISTRIBUTIC	DN SYSTEM: SCCR: PPLY FROM:	208Y/120V 10KA PANEL 'SB2	3PH 4W 2'		-	M	AINS TYPE: MAIN CIRCUIT BREAKE
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A	NOTES:	PANELBOARD: PA Location: Electe Mounting: Surfac Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGR	NEL RICAL A136 CE RAL SPD	'SB-	3'	DISTRIBUTIC	DN SYSTEM: SCCR: PPLY FROM:	208Y/120V 10KA PANEL 'SB2	3PH 4W 2'			MAIN	AINS TYPE: MAIN CIRCUIT BREAKE
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A	NOTES:	PANELBOARD: PA Location: Electr Mounting: Surfac Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGR	NEL RICAL A136 CE RAL SPD	'SB-	3'	DISTRIBUTIC SUI	DN SYSTEM: SCCR: PPLY FROM:	208Y/120V 10KA PANEL 'SB2 B	3PH 4W 2'	2	POLES	MAIN	AINS TYPE: MAIN CIRCUIT BREAKE IS RATING: 100 A CIRCUIT DESCRIPTION
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-28 SB1-30 51.4 kVA 62 A	NOTES:	PANELBOARD: PA Location: Electr Mounting: Surfac Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGR CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 DECEDTACIE TELECOM A135	NEL RICAL A136 CE RAL SPD TRIP 20 A	POLES	3'	DISTRIBUTIC SUI	DN SYSTEM: SCCR: PPLY FROM:	208Y/120V 10KA PANEL 'SB2	3PH 4W 2'	2	POLES 1	M. MAIN TRIP 20 A	AINS TYPE: MAIN CIRCUIT BREAKE NS RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A	NOTES: F CIRCUIT SB3-1 SB3-3 SB3-5	PANELBOARD: PA Location: Electr Mounting: Surfac Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGR CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122	NEL RICAL A136 CE RAL SPD 20 A 20 A	POLES 1 1 1 1	3'	DISTRIBUTIC SUI	DN SYSTEM: SCCR: PPLY FROM: 360	208Y/120V 10KA PANEL 'SB2 B 360	3PH 4W 2'	C	POLES 1 1 1 1	M/ MAIN 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE IS RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-28 SB1-30 51.4 kVA 62 A	NOTES: F CIRCUIT SB3-1 SB3-1 SB3-3 SB3-5 SB3-7	PANELBOARD: PA Location: Electr Mounting: Surfac Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGR CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107	NEL RICAL A136 CE RAL SPD TRIP 20 A 20 A 20 A	POLES 1 1 1 1 1 1	3 '	DISTRIBUTIC SUI	DN SYSTEM: SCCR: PPLY FROM: 360	208Y/120V 10KA PANEL 'SB2 B 360	3PH 4W 2' 360	0	POLES 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE NS RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A	NOTES: F CIRCUIT SB3-1 SB3-3 SB3-5 SB3-7 SB3-9	PANELBOARD: PA Location: Electr Mounting: Surfac Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGR CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE HEALTH B112	NEL RICAL A136 CE RAL SPD 20 A 20 A 20 A 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3'	DISTRIBUTIC SUI	DN SYSTEM: SCCR: PPLY FROM: 360 1,260	208Y/120V 10KA PANEL 'SB2 B 360 1,260	3PH 4W 2' 360	0	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE IS RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B115 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: : MAIN CIRCOT BREAKER : 250 A : 250 A	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-28 SB1-30 51.4 kVA 62 A	NOTES: CIRCUIT SB3-1 SB3-1 SB3-5 SB3-7 SB3-9 SB3-11	PANELBOARD: PA LOCATION: ELECTE MOUNTING: SURFAC ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGR RECEPTACLE TELECOM A135 RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE HEALTH B112 RECEPTACLE CONF. B114	NEL RICAL A136 CE RAL SPD 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 '	DISTRIBUTIC SUI	DN SYSTEM: SCCR: PPLY FROM: 360 1,260	208Y/120V 10KA PANEL 'SB B 360 1,260	3PH 4W 2' 360 1,260	0	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE NS RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: • MAIN CIRC T BREAKER • 250 A • 250 A	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A	NOTES:	PANELBOARD: PA Location: Electre MOUNTING: SURFACE ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGRE CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B121 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE HEALTH B112 RECEPTACLE CONF. B114	NEL RICAL A136 CE RAL SPD 20 A 20 A 20 A 20 A 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3'	DISTRIBUTIC SUI	DN SYSTEM: SCCR: PPLY FROM: 360 1,260	208Y/120V 10KA PANEL 'SB3 B 360 1,260	3PH 4W 2' 360 1,260	0	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: MAIN CIRCYT BREAKER : 250 A : 250 A CIRCUIT DESCRIPTION	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A CIRCUIT	NOTES: CIRCUIT SB3-1 SB3-1 SB3-5 SB3-7 SB3-9 SB3-11 SB3-13 SB3-15 SB3-15	PANELBOARD: PA Location: Electr Mounting: Surfac Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGR CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE HEALTH B112 RECEPTACLE CONF. B114	NEL RICAL A136 CE RAL SPD 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 '	DISTRIBUTIC SUI	DN SYSTEM: SCCR: PPLY FROM: 360 1,260	208Y/120V 10KA PANEL 'SB2 B 360 1,260	3PH 4W 2' 360 1,260	0	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: TOTAL CONNECTED CURRENT:	SB1-16 SB1-20 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A	NOTES: CIRCUIT SB3-1 SB3-7 SB3-9 SB3-11 SB3-13 SB3-13 SB3-15 SB3-17 SB3-19	PANELBOARD: PA Location: Electre MOUNTING: SURFAC ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGE CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B121 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114	NEL RICAL A136 CE RAL SPD 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 '	DISTRIBUTIO SUI A 0 1,080 1,080	DN SYSTEM: SCCR: PPLY FROM: 360 1,260	208Y/120V 10KA PANEL 'SB3 B 360 1,260	3PH 4W 2' 360 1,260	0	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: MAIN CIRCY T BREAKER 250 A 250 A CIRCUIT DESCRIPTION ACLE TELECOM B155	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4	NOTES: CIRCUIT SB3-1 SB3-3 SB3-5 SB3-7 SB3-9 SB3-11 SB3-13 SB3-15 SB3-15 SB3-17 SB3-19 SB3-21	PANELBOARD: PA Location: ELECTE MOUNTING: SURFACE ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGRET RECEPTACLE TELECOM A135 RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114	NEL RICAL A136 CE RAL SPD 20 A 20 A 20 A 20 A 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 '	DISTRIBUTIC SUI	DN SYSTEM: SCCR: PPLY FROM: 360 1,260	208Y/120V 10KA PANEL 'SB3 B 360 1,260	3PH 4W 2' 360 1,260	0 180	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-6 SB2-8	NOTES: CIRCUIT SB3-1 SB3-1 SB3-7 SB3-9 SB3-11 SB3-13 SB3-13 SB3-15 SB3-17 SB3-19 SB3-19 SB3-21 SB3-21 SB3-23	PANELBOARD: PA Location: ELECTF MOUNTING: SURFAC ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGR CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114	NEL RICAL A136 CE RAL SPD 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 60 1,260	DISTRIBUTIO SUI 1,080	DN SYSTEM: SCCR: PPLY FROM: 360 1,260	208Y/120V 10KA PANEL 'SB2 B 360 1,260	3PH 4W 2' 360 1,260	0	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-4 SB2-6 SB2-8 SB2-10	NOTES: CIRCUIT SB3-1 SB3-1 SB3-5 SB3-7 SB3-9 SB3-11 SB3-13 SB3-15 SB3-15 SB3-15 SB3-17 SB3-19 SB3-21 SB3-23 SB3-25	PANELBOARD: PA LOCATION: ELECTE MOUNTING: SURFAC ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGR RECEPTACLE TELECOM A135 RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114 Image: SPARE	NEL RICAL A136 CE RAL SPD 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 '	DISTRIBUTIC SUI	DN SYSTEM: SCCR: PPLY FROM: 360 1,260	208Y/120V 10KA PANEL 'SB3 B 360 1,260	3PH 4W 2' 360 1,260	0 180	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: TOTAL CONNECTED CURRENT:	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-4 SB2-6 SB2-8 SB2-10 SB2-12	NOTES:	PANELBOARD: PA Location: Electre MOUNTING: SURFAC ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGR RECEPTACLE TELECOM A135 RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114 SPARE SPARE SPARE	NEL RICAL A136 CE RAL SPD 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 60 1,260	DISTRIBUTIO SUI 1,080 1,080	DN SYSTEM: SCCR: PPLY FROM: 360 1,260	208Y/120V 10KA PANEL 'SB2 B 360 1,260	3PH 4W 2' 360 1,260	0	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: MAIN CIRCOT BREAKER : 250 A : 250 A : 250 A CIRCUIT DESCRIPTION ACLE TELECOM B155	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-4 SB2-6 SB2-8 SB2-10 SB2-12 SB2-14	NOTES:	PANELBOARD: PA Location: ELECTE MOUNTING: SURFAC ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGR RECEPTACLE TELECOM A135 RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114 SPARE SPARE SPARE SPARE	RICAL A136 CE RICAL A136 Z0 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	3 60 1,260	DISTRIBUTIC SUI A 0 1,080 1,080 1,080 1 1 1 1 1 1 1 1 1 1 1 1 1	DN SYSTEM: SCCR: PPLY FROM: 360 1,260 1,260	208Y/120V 10KA PANEL 'SB2 360 1,260 1,260	3PH 4W 2' 360 1,260 1,260	0 180	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: • MAIN CIRC T BREAKER • 250 A • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-4 SB2-6 SB2-8 SB2-10 SB2-12 SB2-14 SB2-16	NOTES:	PANELBOARD: PA Liccation: Electre Mounting: Surfax Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGR RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114 SPARE SPARE SPARE SPARE SPARE SPARE	NEL RICAL A136 CE RAL SPD 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 '	DISTRIBUTIO SUI 1,080 1,080	DN SYSTEM: SCCR: PPLY FROM: 360 1,260 1,260	208Y/120V 10KA PANEL 'SB3 B 360 1,260 1,260	3PH 4W 2' 360 1,260 1,260 360 1,260 360 1,260 360 360 360 360 360 360 360 360 360 3	0 180	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE RECEPTION B115 RECEPTACLE TELECOM B122 I I I I I I I I I I I I I I I I I I I
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: MAIN CIRCYT BREAKER : 250 A : 250 A : 250 A CIRCUIT DESCRIPTION ACLE TELECOM B155 SB-4'	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-4 SB2-4 SB2-6 SB2-8 SB2-10 SB2-12 SB2-14 SB2-16 SB2-18	NOTES: CIRCUIT SB3-1 SB3-1 SB3-3 SB3-5 SB3-7 SB3-9 SB3-11 SB3-13 SB3-15 SB3-11 SB3-13 SB3-15 SB3-17 SB3-19 SB3-19 SB3-21 SB3-21 SB3-21 SB3-21 SB3-27 SB3-29	PANELBOARD: PA Liccation: Electre MOUNTING: SURFAC BROVIDE WITH THE FOLLOWING: INTEGR RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114 SPARE SPARE SPARE SPARE SPARE SPARE	RICAL A136 CE RAL SPD 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 60 1,260		DN SYSTEM: SCCR: PPLY FROM: 360 1,260 1,260	208Y/120V 10KA PANEL 'SB: 360 1,260 1,260	3PH 4W 2' 360 1,260 1,260	0 180	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MAIN MAIN 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: • MAIN CIRCY T BREAKER • 250 A • 250 A • 250 A • 250 A • 250 A • 250 A	SB1-16 SB1-20 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-8 SB2-10 SB2-12 SB2-14 SB2-16 SB2-18 SB2-20	NOTES:	PANELBOARD: PA Location: Electre MOUNTING: SURFAC ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGR CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114 SPARE SPARE SPARE SPARE SPARE SPARE	NEL RICAL A136 CE RAL SPD 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 60 1,260 0 2,71	DISTRIBUTIO SUI A 0 1,080 1,080 1,080	DN SYSTEM: SCCR: PPLY FROM: 360 1,260 1,260	208Y/120V 10KA PANEL 'SB3 B 360 1,260 1,260	3PH 4W 2' 360 1,260 1,260 360 1,260 360 1,260 360 1,260 360 360 360 360 360 360 360 360 360 3	0 180	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE RECEPTION B115 RECEPTACLE TELECOM B122 I I I I I I I I I I I I I I I I I I I
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: MAIN CIRCYT BREAKER : 250 A : 250 A : 250 A CIRCUIT DESCRIPTION ACLE TELECOM B155 SB-4'	SB1-16 SB1-18 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-4 SB2-4 SB2-10 SB2-12 SB2-14 SB2-16 SB2-18 SB2-18 SB2-20 SB2-22 SB2-24	NOTES:	PANELBOARD: PA Location: Electre MOUNTING: SURFAC Enclosure: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGR RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE ONF. B114 SPARE SPARE SPARE SPARE SPARE SPARE	NEL RICAL A136 CE RAL SPD 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 60 1,260 0 2,71	DISTRIBUTIC SUI A 0 1,080 1,080 1,080 1 1 1 1 1 1 1 1 1 1 1 1 1	DN SYSTEM: SCCR: PPLY FROM: 360 1,260 1,260	208Y/120V 10KA PANEL 'SB3 360 1,260 1,260	3PH 4W 2' 360 1,260 1,260	0 180 180	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: MAIN CIRCY T BREAKER 250 A 250 A 250 A CIRCUIT DESCRIPTION ACLE TELECOM B155 SB-4'	SB1-16 SB1-20 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-8 SB2-10 SB2-11 SB2-12 SB2-14 SB2-16 SB2-18 SB2-20 SB2-24 SB2-24 SB2-18 SB2-18 SB2-20 SB2-24 SB2-24 SB2-24 SB2-18 SB2-20 SB2-22 SB2-24 SB2-22 SB2-24 SB2-26	NOTES:	PANELBOARD: PA Location: Electre MOUNTING: SURFACE ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGRE RECEPTACLE TELECOM A135 RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114 SPARE SPARE SPARE SPARE	NEL RICAL A136 CE RAL SPD 1 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 '		DN SYSTEM: SCCR: PPLY FROM: 360 1,260 1,260	208Y/120V 10KA PANEL 'SB3 B 360 1,260 1,260	3PH 4W 2' 360 1,260 1,260 1,260 1,260 1,260	0 180	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE RECEPTION B115 RECEPTACLE TELECOM B122 I I I I I I I I I I I I I I I I I I I
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: MAIN CIRCUT BREAKER : 250 A : 250 A : 250 A CIRCUIT DESCRIPTION ACLE TELECOM B155 SB-4'	SB1-16 SB1-20 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-6 SB2-8 SB2-10 SB2-12 SB2-14 SB2-16 SB2-18 SB2-18 SB2-20 SB2-24 SB2-26 SB2-28 SB2-18 SB2-20 SB2-21 SB2-22 SB2-24 SB2-22 SB2-24 SB2-20 SB2-22 SB2-24 SB2-26 SB2-28	NOTES:	PANELBOARD: PA LOCATION: ELECTE MOUNTING: SURFAC ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGR CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114 SPARE SPARE SPARE SPARE	NEL RICAL A136 CE RAL SPD 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 60 1,260 0 2,71		DN SYSTEM: SCCR: PPLY FROM: 360 1,260 1,260	208Y/120V 10KA PANEL 'SB3 360 1,260 1,260	3PH 4W 2' 360 1,260 1,260	0 180 0 0 0 0 0 0 0 0 0	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: MAIN CIRCY T BREAKER 250 A 250 A 250 A CIRCUIT DESCRIPTION ACLE TELECOM B155 SB-4'	SB1-16 SB1-20 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-8 SB2-10 SB2-11 SB2-12 SB2-14 SB2-16 SB2-18 SB2-18 SB2-20 SB2-21 SB2-22 SB2-24 SB2-18 SB2-18 SB2-20 SB2-218 SB2-22 SB2-23 SB2-24 SB2-20 SB2-218 SB2-22 SB2-24 SB2-22 SB2-24 SB2-28 SB2-28 SB2-28 SB2-28 SB2-28 SB2-28 SB2-28 SB2-28 SB2-28 SB2-30	NOTES:	PANELBOARD: PA Location: Electre Mounting: Surfac Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGR CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE HEALTH B112 RECEPTACLE CONF. B114	NEL RICAL A136 CE RAL SPD 20 A PHA	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	3 '		DN SYSTEM: SCCR: PPLY FROM: 3360 1,260 1,260	208Y/120V 10KA PANEL 'SB3 360 1,260 1,260	3PH 4W 2' 360 1,260 1,260 1,260 1,260 1,260 1,260	0 180 0 0 0 0 0 0 0 0 0 0 0 0	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: MAIN CIRCUT BREAKER 250 A 250 A 250 A CIRCUIT DESCRIPTION ACLE TELECOM B155 SB-4'	SB1-16 SB1-20 SB1-20 SB1-22 SB1-24 SB1-28 SB1-30 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-6 SB2-8 SB2-10 SB2-12 SB2-14 SB2-12 SB2-14 SB2-18 SB2-18 SB2-20 SB2-24 SB2-20 SB2-28 SB2-18 SB2-20 SB2-218 SB2-22 SB2-24 SB2-20 SB2-218 SB2-22 SB2-24 SB2-20 SB2-218 SB2-22 SB2-28 SB2-28 SB2-28 SB2-218 SB2-210 SB2-218 SB2-210 SB2-218 SB2-210 SB2-218 SB2-210 SB2-218	NOTES:	PANELBOARD: PA Location: Electre Mounting: Surfac Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGE CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114 SPARE SPARE SPARE	NEL RICAL A136 CE RAL SPD 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 60 1,260 0 2,71		DN SYSTEM: SCCR: PPLY FROM: 360 1,260 1,260	208Y/120V 10KA PANEL 'SB3 360 1,260 1,260	3PH 4W 2' 360 1,260 1,260 360 1,260 360 1,260 360 360 360 360 360 360 360 360 360 3	0 180 180	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: MAIN CIRCY T BREAKER 250 A 250 A 250 A 250 A CIRCUIT DESCRIPTION ACLE TELECOM B155	SB1-16 SB1-20 SB1-20 SB1-22 SB1-24 SB1-26 SB1-28 SB1-30 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-8 SB2-10 SB2-12 SB2-14 SB2-10 SB2-12 SB2-14 SB2-16 SB2-18 SB2-20 SB2-21 SB2-22 SB2-23 SB2-24 SB2-13 SB2-14 SB2-18 SB2-20 SB2-21 SB2-22 SB2-23 SB2-24 SB2-25 SB2-28 SB2-28 SB2-30	NOTES:	PANELBOARD: PA Lication: Electre Mounting: Surfax Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGR CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE HEALTH B112 RECEPTACLE CONF. B114 SPARE SPARE SPARE	NEL RICAL A136 CE RAL SPD 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 '		DN SYSTEM: SCCR: PPLY FROM: 360 1,260 1,260	208Y/120V 10KA PANEL 'SB3 360 1,260 1,260	3PH 4W 2' 360 1,260 1,260 1,260 1,260 1,260 1,260 1,260 1,260	0 180 180	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE RECEPTION B115 RECEPTACLE TELECOM B122 I I I I I I I I I I I I I I I I I I I
TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT: MAIN CIRCUT BREAKER 250 A 250 A 250 A CIRCUIT DESCRIPTION ACLE TELECOM B155 SB-4' SB-4' TOTAL CONNECTED LOAD: TOTAL CONNECTED LOAD:	SB1-16 SB1-20 SB1-20 SB1-22 SB1-24 SB1-28 SB1-30 51.4 kVA 62 A CIRCUIT SB2-2 SB2-4 SB2-6 SB2-8 SB2-10 SB2-12 SB2-14 SB2-12 SB2-14 SB2-18 SB2-18 SB2-20 SB2-21 SB2-22 SB2-23 SB2-30 15.7 kVA 44 A	NOTES:	PANELBOARD: PA Lication: Electre Mounting: Surfat Enclosure: Type 1 PROVIDE WITH THE FOLLOWING: INTEGR CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE OFFICE B107 RECEPTACLE CONF. B114 SPARE SPARE SPARE	NEL RICAL A136 CE RAL SPD 20 A 20 A	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 60 1,260 0 2,71		DN SYSTEM: SCCR: PPLY FROM: 360 1,260 1,260	208Y/120V 10KA PANEL 'SB3 360 1,260 1,260	3PH 4W 2' 360 1,260 1,260 1,260 1,260 1,260 1,260 1,260	0 180 180	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M/ MAIN 20 A 20 A 20 A 20 A 20 A	AINS TYPE: MAIN CIRCUIT BREAKE S RATING: 100 A CIRCUIT DESCRIPTION RECEPTACLE TELECOM A135 RECEPTACLE TELECOM B122 RECEPTACLE TELECOM B122 RECEPTACLE RECEPTION B115 RECEPTACLE PRINCIPAL B110 RECEPTACLE TELECOM B122

	Location: Telecom Mounting: Surface Enclosure: Type 1	I B122			distributi Su	ON SYSTEM: SCCR: PPLY FROM:	208Y/120V 3 10KA PANEL 'DPE	3PH 4W 3'			MA MAIN	AINS TYPE: MAIN BREAKER IS RATING: 225 A
	PROVIDE WITH THE FOLLOWING:											
CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES		A		В		с	POLES	TRIP	CIRCUIT DESCRIPTION
B2-1	COPY MACHINE	20 A	1	180	180					1	20 A	COPY MACHINE
B2-3	RECEPTACLE WORK B102	20 A	1			540	180			1	20 A	UNDERCOUNTER REFRIG GFCI BRKR
B2-5	RECEPTACLE MOTHER'S B103	20 A	1					1,260	744	1	20 A	EF-5, EF-8
B2-7	VUV-14	20 A	1	1,200	1,080					1	20 A	RECEPTACLE CONF. B114
B2-9	RECEPTACLE MUSIC B119	20 A	1			1,260	1,440			1	20 A	RECEPTACLE
B2-11	RECEPTACLE HALL B109	20 A	1					1,260	300	1	20 A	SINK SENSORS
B2-13	REFRIGERATOR GFCI BRKR	20 A	1	180	180					1	20 A	RECEPTACLE OFFICE/ WORK B121
B2-15	MOTORIZED ROLLER SHADES	20 A	1			720	1,080			1	20 A	MOTORIZED SCREENS, P-15
B2-17	RECEPTACLE	20 A	1					1,440	1,080	1	20 A	RECEPTACLE LEARNING COMMONS-1
B2-19	RECEPTACLE	20 A	1	1,260	1,200					1	20 A	VAV-9,10,11,12,13,14
B2-21	REFRIGERATOR GFCI BRKR	20 A	1			960	1,608			1	20 A	MICROWAVE
B2-23	RECEPTACLE LOUNGE B101	20 A	1					1,260	960	1	20 A	REFRIGERATOR GFCI BRKR
B2-25	RECEPTACLE LOUNGE B101	20 A	1	540	1,608					1	20 A	RECEPTACLE LOUNGE B101
B2-27	UNDERCOUNTER REFRIG GFCI BRKR	20 A	1			180	1,260			1	20 A	RECEPTACLE CORRIDOR A126
B2-29	VAV-7,8,9,10,11,12	20 A	1					1,200	360	1	20 A	RECEPTACLE ENTRY B117
B2-31	RECEPTACLE LEARNING COMMONS B123	20 A	1	360								
B2-33												
B2-35												
B2-37												
B2-39												
B2-41												
B2-43												
B2-45												
B2-47												
B2-49	SPARE	20 A	1	0	0					1	20 A	SPARE
B2-51	SPARE	20 A	1			0	0			1	20 A	SPARE
B2-53	SPARE	20 A	1					0	0	1	20 A	SPARE
		PHA	SE LOAD:	7,96	8 VA	9,22	8 VA	9,86	54 VA			1
			I			1		L				TOTAL CONNECTED LOA
												TOTAL CONNECTED CURREN
NOTES:												

ECTED LOAD: 61.1 kVA D CURRENT: 170 A

B1-70

B1-72

MAINS TYPE: MAIN CIRCUIT BREAKER

MAINS RATING: 250 A

35 A B-2

7	
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र	
7	
N	CIRCUIT
	A1-2
	A1-4
	A1-6
	A1-8
	A1-10
	A1-12
	A1-14
A110	A1-16
A110	A1-18
	A1-20
	A1-22
N A126	A1-24
	A1-26
N A129	A1-28
N A131	A1-30
-	A1-32
	A1-34
	A1-36
	A1-38
AREA A108	A1-40
	A1-42
	A1-44
	A1-46
	A1-48
	A1-50
	A1-52
	A1-54
	A1-56
	A1-58
	A1-60
	A1-62
	A1-64
	A1-66
	A1-68
	A1-70
	A1-72
TED LOAD:	63.0 kVA
CURRENT:	175 A

ER	
1	CIRCUIT
	SB3-2
	SB3-4
	SB3-6
	SB3-8
	SB3-10
	SB3-12
	SB3-14
	SB3-16
	SB3-18
	SB3-20
	SB3-22
	SB3-24
	SB3-26
	SB3-28
	SB3-30
TED LOAD:	7.7 kVA
CURRENT:	21 A

	CIRCUIT
	B2-2
R	B2-4
	B2-6
	B2-8
	B2-10
	B2-12
	B2-14
	B2-16
8-1	B2-18
	B2-20
	B2-22
	B2-24
	B2-26
	B2-28
	B2-30
	B2-32
	B2-34
	B2-36
	B2-38
	B2-40
	B2-42
	B2-44
	B2-46
	B2-48
	B2-50
	B2-52
	B2-54
L	
LOAD:	27.1 kVA
RENT:	75 A



AR -EMENT, 님 NEW



ISSUANCES 09.16.2021 BIDS & CONSTRUCTION 10/14/2021 ADDENDUM 002 10/21/2021 ADDENDUM 003 02/17/2022 BULLETIN 002

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POWER DISTRIBUTION EQUIPMENT SCHEDULES



F	PANELBOARD: PAN	IEL '	'DPC	↓¶ 7									
	LOCATION: ELECTRIC MOUNTING: SURFACE ENCLOSURE: TYPE 1 PROVIDE WITH THE FOLLOWING: INTEGRA	CAL C126 E L SPD			distributi (DN SYSTEM: SCCR: PPLY FROM:	480Y/277V : 10KA PANEL 'MS	3PH 4W 3'			MA Main MC	NINS TYPE: MAIN CIRCUIT BREAKER S RATING: 250 A B RATING: 250 A	
CIRCUIT		TRIP	POLES		۵		8		<u>,</u>	POLES	TRIP		CIRCUIT
DPC-1			TOLLO	15,300	1.680	•				1	20 A		DPC-2
DPC-3	 'T-C'	90 A	3		.,	16.320	2,590			1	20 A	LIGHTING - GENERAL	DPC-4
DPC-5	-		-			,	_,	11.592	175	1	20 A	LIGHTING - GENERAL	DPC-6
DPC-7	LIGHTING - GENERAL ROOM C118, C123	20 A	1	2,009	5,820			,					DPC-8
DPC-9						2,106	5,820			3	25 A	AHU-6 SUPPLY	DPC-10
DPC-11	AHU-6 EXHAUST	15 A	3					2,106	5,820			-	DPC-12
DPC-13	_			2,106	1,000					1	20 A	GENERAL LIGHTING	DPC-14
DPC-15													DPC-16
DPC-17													DPC-18
DPC-19													DPC-20
DPC-21													DPC-22
DPC-23													DPC-24
DPC-25					0					1	20 A	SPARE	DPC-26
DPC-27							0			1	20 A	SPARE	DPC-28
DPC-29									0	1	20 A	SPARE	DPC-30
		PHA	SE LOAD:	27,9	15 VA	26,83	36 VA	19,69	93 VA				
												TOTAL CONNECTED LOAD:	74.4 kVA
												TOTAL CONNECTED CURRENT:	90 A
NOTES:													

PANELBOARD: PANEL 'LPB' LOCATION: ELECTRICAL B143 DISTRIBUTION SYSTEM: 480Y/277V 3PH 4W MAINS TYPE: MAIN LUG MOUNTING: SURFACE SCCR: 18KA MAINS RATING: 125 A ENCLOSURE: TYPE 1 SUPPLY FROM: PANEL 'MSB' PROVIDE WITH THE FOLLOWING: CIRCUIT CIRCUIT DESCRIPTION TRIP POLES POLES TRIP CIRCUIT В CIRCUIT DESCRIPTION С Δ Í 20 A 1 415 595 LPB-1 EXTERIOR BLD LT RELAY 1 20 A LIGHTING - GENERAL LPB-2 20 A 1 LPB-3 LIGHTING - GENERAL 1,365 560 20 A LIGHTING - GENERAL LPB-4 1 LPB-5 LIGHTING - GENERAL 20 A 1 1,478 0 1 20 A LIGHTING - GENERAL ENTRY B117 LPB-6 LPB-7 LIGHTING - GENERAL 20 A 1 0 0 20 A LIGHTING - GENERAL LPB-8 1 LPB-9 LIGHTING - GENERAL 20 A 1 378 106 _____ LPB-11 183 106 3 35 A ZONE #1 SITE LIGHTING LPB-13 ZONE #3 SITE LIGHTING 35 A 3 183 106 LPB-15 183 269 LPB-17 3 40 A ZONE #2 SITE LIGHTING 100 269 20 A 3 100 269 LPB-19 EXTERIOR SIGN LPB-21 100 LPB-23 942 LPB-25 MOTORIZED LIFT 20 A 3 942 0 1 20 A SPARE 1 20 A SPARE 942 0 LPB-27 0 1 20 A SPARE LPB-29 3,079 VA PHASE LOAD: 2,611 VA 3,904 VA TOTAL CONNECTED LOAD: 9.6 kVA TOTAL CONNECTED CURRENT: 12 A

	LOCATION: ELEC MOUNTING: FLUS ENCLOSURE: TYPE	TRICAL C126 H 1			DISTRIBUTI	ON SYSTEM: SCCR: PPLY FROM:	208Y/120V 3 10KA 'T-C'	3PH 4W			MA MAIN	AINS TYPE: MAIN BREAKER IS RATING: 225 A	
	PROVIDE WITH THE FOLLOWING:												
CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES		A		3		C	POLES	TRIP	CIRCUIT DESCRIPTION	CIRC
C1-1	RECEPS SENSORY C101	20 A	1	1,080	900					1	20 A	RECEPS SENSORY C101	C1
C1-3	RECEPS UPPER EL. C111	20 A	1			900	1,080			1	20 A	RECEPS UPPER EL. C111	C1
C1-5	RECEPS UPPER EL. C112	20 A	1					900	1,080	1	20 A	RECEPS UPPER EL. C112	C1
C1-7	RECEPS UPPER EL. C114	20 A	1	1,080	900					1	20 A	RECEPS UPPER EL. C114	C1
C1-9	RECEPS UPPER EL. C115	20 A	1			720	1,080			1	20 A	RECEPS UPPER EL. C115	C1-
C1-11	RECEPS UPPER EL. C121	20 A	1					720	1,080	1	20 A	RECEPS UPPER EL. C121	C1-
C1-13	RECEPS UPPER EL. C117	20 A	1	900	1,080					1	20 A	RECEPS UPPER EL. C117	C1-
C1-15	RECEPS UPPER EL. C119	20 A	1			1,080	900			1	20 A	RECEPS UPPER EL. C119	C1-
C1-17	RECEPS UPPER EL. C120	20 A	1					720	1,080	1	20 A	RECEPS UPPER EL. C120	C1-
C1-19	EHD TOILET C106	20 A	1	1,500	1,500						20-4		
C1-21	EHD TOILET C105	20 A	1			1,500	1,500				20 A	EHD TOILET C105	C1-
C1-23	RECEPS TOILET C105, C106	20 A	1					1,080	180	. 1	20 A	EWC CORRIDOR C122 GFCI BRKR	C1-
C1-25	RECEPS C108-C110, C122, C126	20 A	1	900	540						20 A	RECE RS C104, C128	C1-
C1-27	RECEPS C107	20 A	1			720	720				20 A	RECEPS C107	C1-
C1-29	RECEPS C118	20 A	1					540	180	1	20 A	COPY MACHINE	C1-
C1-31	RECEPS C121	20 A	1	1,080	540					1	20 A	RECEPS C121	C1-
C1-33	VUV-21,22	25 A	1			2,400	2,400			1	25 A	VUV-19,20	C1-
C1-35	VUV-17,18	25 A	1					240	2,400	1	25 A	VUV-23,24	C1-
C1-37	VUV-25,26	25 A	1	2,400	900					1	20 A	EF-10, EF-9	C1-
C1-39	CUH-6, 7	20 A	1			120	1,200			1	20 A	VAV-22,23,24,25,26	C1-
C1-41	P-10, EF-11	20 A	1					1,392					C1-
C1-43													C1-
C1-45													C1-
C1-47													C1-
C1-49	SPARE	20 A	1	0	0					1	20 A	SPARE	C1-
C1-51	SPARE	20 A	1			0	0			1	20 A	SPARE	C1-
C1-53	SPARE	20 A	1					0	0	1	20 A	SPARE	C1-
	1	PHA	SE LOAD:	15,30	00 VA	16,32	20 VA	11,59	92 VA			TOTAL CONNECTED LOA	D: 43.2
												TOTAL CONNECTED CURREN	T: 120

	LOCATION: ELECTRIC MOUNTING: FLUSH ENCLOSURE: TYPE 1	CAL D127			DISTRIBUTIO SU	ON SYSTEM: SCCR: PPLY FROM:	208Y/120V 3 10KA 'T-D'	iph 4W			M/ MAIN	AINS TYPE: MAIN BREAKER IS RATING: 225 A	
	PROVIDE WITH THE FOLLOWING:												
CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES		A		В		с	POLES	TRIP	CIRCUIT DESCRIPTION	CIRCUIT
D1-1	RECEPS D124	20 A	1	540	720					1	20 A	RECEPS D107	D1-2
D1-3	RECEPS D125	20 A	1			720	1,080			1	20 A	RECEPS D125	D1-4
D1-5	RECEPS D113	20 A	1					900	900	1	20 A	RECEPS D113	D1-6
D1-7	RECEPS D114	20 A	1	900	1,080					1	20 A	RECEPS D114	D1-8
D1-9	RECEPS D115	20 A	1			1,080	900			1	20 A	RECEPS D115	D1-10
D1-11	COPY MACHINE	20 A	1					180	720	1	20 A	RECEPS D118	D1-12
D1-13	RECEPS D116	20 A	1	900	1,260					1	20 A	RECEPTACLE	D1-14
D1-15	RECEPS D119	20 A	1			1,080	900			1	20 A	RECEPS C109	D1-16
D1-17	VUV-33,34	25 A	1					2,400	720	1	20 A	RECEPS D116	D1-18
D1-19	RECEPS D120	20 A	1	900	2,400					1	25 A	VUV-35,27	D1-20
D1-21	RECEPS D123	20 A	1			1,260	540			1	20 A	RECEPS D123	D1-22
D1-23	RECEPS D122	20 A	1					900	1,080	1	20 A	RECEPS D122	D1-24
D1-25	RECEPS D121	20 A	1	1,080	900					1	20 A	RECEPS D121	D1-26
D1-27	RECEPS D108	20 A	1			540	1,260			1	20 A	RECEPS D108	D1-28
D1-29	RECEPS D109, D110, D127	20 A	1					720	1,500	1	20 A	EHD TOILET D106	D1-30
D1-31	EHD TOILET D106	20 A	1	1,500	1,500						20 4	EHD TOILET D405	P1-32
D1-33	EHD TOILET D105	20 A	1			1,500	720			1	20 A	RECEPS D106	D1-34
D1-35	RECEPS D103, D104	20 A	1					540	180	1	20 A	EWC D102 GFCI BRKR	D1-36
D1-37	RECEPS D102	20 A	1	360	2,400					λ_1	25 A		D1- R
D1-39	EQUIPMENT	20 A	1			1,200	2,400			1	25 A	VUV-30,31	D1-40
D1-41	REC WOODLANDS GROUP AREA-1 A107-1	20 A	1					720	1,836	1	20 A	EF-12,13, P-11	D1-42
D1-43	CUH-9, CUH-10	20 A	1	120	1,200					1	20 A	VAV-27,28,29,30,31,32	D1-44
D1-45	AHU RECPT	20 A	1			900	720			1	20 A	AHU-LTS	D1-46
D1-47	CUH-8	20 A	1					60	1,200	1	20 A	VAV-19,20,21,34,35	D1-48
D1-49													D1-50
D1-51	SPARE	20 A	1			0	0			1	20 A	SPARE	D1-52
D1-53	SPARE	20 A	1					0	0	1	20 A	SPARE	D1-54
PHASE LOAD:					60 VA	16,80	AV 00	14,5	56 VA			TOTAL CONNECTED LOAD: TOTAL CONNECTED CURRENT:	49.1 kV 136 A
NOTES:													



NOTES:

NOTES:

PANELBOARD: PANEL 'SB4' LOCATION: ELECTRICAL C126

MOUNTING: SURFACE ENCLOSURE: TYPE 1

PROVIDE WITH THE FOLLOWING: INTEGRAL SPD

DISTRIBUTION SYSTEM: 208Y/120V 3PH 4W SCCR: 10KA SUPPLY FROM: PANEL 'SB2'

MAINS TYPE: MAIN CIRCUIT BREAKER MAINS RATING: 125 A

CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES	Α		E	3	(C	POLES	TRIP	CIRCUIT DESCRIPTION
SB4-1	RECEPTACLE TELECOM C125	20 A	1	360	0					1	20 A	RECEPTACLE TELECOM C125
SB4-3	RECEPTACLE TELECOM C125	20 A	1			360	360			1	20 A	RECEPTACLE TELECOM D126
SB4-5	RECEPTACLE TELECOM D126	20 A	1					360	0	1	20 A	RECEPTACLE TELECOM D126
SB4-7												
SB4-9												
SB4-11												
SB4-13	SPARE	20 A	1	0								
SB4-15	SPARE	20 A	1			0						
SB4-17	SPARE	20 A	1					0				
		PHAS	SE LOAD:	360	VA	720	VA	360) VA			
										-		TOTAL CONNECTED

TOTAL CONNECTED CURR

PANELBOARD: PANEL 'EM1' LOCATION: ATS B154 DISTRIBUTION SYSTEM: 480Y/277V 3PH 4W MAINS TYPE: MAINLUG MAIN BREAKER MOUNTING: SURFACE SCCR: 18KA MAINS RATING: 125 A ENCLOSURE: TYPE 1 SUPPLY FROM: PANEL 'MSB' **PROVIDE WITH THE FOLLOWING:** POLES TRIP TRIP POLES CIRCUIT CIRCUIT DESCRIPTION CIRCUIT DESCRIPTION С в EM1-1 1,829 600 1 20 A EM LTG UNIT 'A' EM1-3 'T-EM' 35 A 3 1 20 A EM LTG UNIT 'A' 829 600 EM1-5 829 600 1 20 A EM LTG UNIT 'B' 20 A 1 600 600 EM1-7 EM LTG UNIT 'C' 1 20 A EM LTG UNIT 'B' · EM1-9 EM LTG UNIT 'C' 600 600 20 A 1 1 20 A EM LTG UNIT 'B' EM1-11 EM LTG UNTI 'D' 20 A 1 600 EM1-13 EM LTG UNIT 'D' 20 A 1 600 EM1-15 EM LTG UNIT 'B' 20 A 1 600 EM1-17 800 1 20 A EXT. EM LIGHTING EM1-19 EM1-21 EM1-23 EM1-25 SPARE 20 A 1 0 EM1-27 SPARE 20 A 1 0 EM1-29 SPARE

3,229 VA

0

2,829 VA

20 A 1

PHASE LOAD:

4,229 VA

TOTAL CONNECTED L TOTAL CONNECTED CURR

F	LOCATION: ATS B154 Mounting: Surface Enclosure: Type 1 Provide with the following: Integral			DISTRIBUTIO I SUP	N SYSTEM: 208Y/120V 3I SCCR: 18KA PLY FROM: 'T-EM'	MAINS TYPE: MAIN CIRCUIT BREAKER MAINS RATING: 125 A				
CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES		A	В	С	POLES	TRIP	CIRCUIT DESCRIPTION
EM-2-1	MAIN FIRE ALARM PANEL (LOCKED BRKR)	KR) 20 A 1 1,000 829								
EM-2-3						829		3	15 A	JK-1 (JOCKEY PUMP FOR FIRE PUMP
EM-2-5							829			
EM-2-7										
EM-2-9										
EM-2-11										
EM-2-13										
EM-2-15										
EM-2-17										
EM-2-19										
EM-2-21										
EM-2-23										
EM-2-25										
EM-2-27										
EM-2-29										
		PHA	SE LOAD:	1,82	9 VA	829 VA	829 VA			

PANELBOARD: PANEL 'DPD'

LOCATION: ELECTRICAL D127 MOUNTING: SURFACE ENCLOSURE: TYPE 1

DISTRIBUTION SYSTEM: 480Y/277V 3PH 4W SCCR: 18KA SUPPLY FROM: PANEL 'MSB'

MAINS TYPE: MAIN CIRCUIT BREAKER MAINS RATING: 250 A

CIRCUIT	CIRCUIT DESCRIPTION	TRIP	POLES		Α		В		C	POLES	TRIP	CIRCUIT DESCRIPTION
DPD-1				17,760	1,680					1	20 A	LIGHTING - GENERAL
DPD-3	'T-D'	90 A	3			16,800	1,680			1	20 A	LIGHTING - GENERAL
DPD-5								14,556	595	1	20 A	LIGHTING - GENERAL ROOM D106
DPD-7					105					1	20 A	LIGHTING - GENERAL
DPD-9	LIGHTING - GENERAL ROOM D116, D120	20 A	1			588	3,880					
DPD-11								2,106	3,880	3	20 A	AHU-7 SUPPLY
DPD-13	AHU-7 EXHAUST	20 A	3	2,106	3,880							
DPD-15						2,106						
DPD-17												
DPD-19												
DPD-21												
DPD-23												
DPD-25	SPARE	20 A	1	0								
DPD-27	SPARE	20 A	1			0						
DPD-29	SPARE	20 A	1					0				
		PHA	SE LOAD:	25,5	31 VA	25,0	54 VA	21,13	37 VA			
												TOTAL CONNECTE

	CIRCUIT SB4-2 SB4-4 SB4-6 SB4-8 SB4-10 SB4-12 SB4-14 SB4-16 SB4-18 1.4 kVA 4 A
	CIRCUIT EM1-2 EM1-4 EM1-6 EM1-10 EM1-10 EM1-12 EM1-12 EM1-14 EM1-20 EM1-24 EM1-24 EM1-23 EM1-30 10.3 kVA 12 A
P)	CIRCUIT EM-2-2 EM-2-4 EM-2-4 EM-2-4 EM-2-10 EM-2-10 EM-2-12 EM-2-14 EM-2-16 EM-2-18 EM-2-20 EM-2-24 EM-2-20 EM-2-24 EM-2-28 EM-2-20 EM-2-24 EM-2-20 EM-2-20 SIN-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-10 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-20 EM-2-30 E
R , D105, , D105, , D105,	CIRCUIT DPD-2 DPD-4 DPD-6 DPD-8 DPD-10 DPD-12 DPD-14 DPD-16 DPD-18 DPD-20 DPD-24 DPD-24 DPD-24 DPD-26 DPD-28 DPD-28 DPD-30 71.7 kVA 86 A



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ISSUANCES 09.16.2021 BIDS & CONSTRUCTION 10/21/2021 ADDENDUM 003 02/17/2022 BULLETIN 002 04.15.2022 BULLETIN 005

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POWER DISTRIBUTION EQUIPMENT SCHEDULES



LIGHTING FIXTURE SCHEDULE GENERAL NOTES: A. MODEL NUMBERS GIVEN IN THIS SCHEDULE MAY NOT INCLUDE ALL

- OPTIONS AND ACCESSORIES AS NECESSARY TO MEET THE REQUIREMENTS OF THE DESCRIPTION AND SPECIFICATIONS. B. CONTRACTOR SHALL PROVIDE ALL NECESSARY MOUNTING HARDWARE
- FOR EACH FIXTURE TYPE. COORDINATE WITH CEILING TYPES AND MOUNTING LOCATIONS. C. ALL FINISHES SHALL BE CHOSEN FROM THE MANUFACTURER'S
- CATALOGED/STANDARD OPTIONS UNLESS OTHERWISE NOTED. D. ALL LIGHT SOURCES SHALL BE 4,000K CORRELATED COLOR TEMPERATURE, UNLESS OTHERWISE NOTED. ALL INTERIOR LIGHT
- SOURCES SHALL HAVE COLOR RENDERING INDEX RATING OF 80 OR GREATER.
- E. ALL FIXTURES SHALL BE SUPPLIED WITH UNIVERSAL VOLTAGE INPUT (120/277V) WHERE AVAILABLE FROM THE MANUFACTURER. VOLTAGE LISTED IN THE SCHEDULE IS INTENDED UTILIZATION VOLTAGE. F. REFER TO THE PLAN DRAWINGS FOR LOCATIONS OF EMERGENCY-DUTY FIXTURES, INCLUDING FIXTURES WITH MULTIPLE CIRCUITS AND/OR
- EMERGENCY-DUTY SUBSECTIONS. ALL EMERGENCY-DUTY FIXTURES SHALL BE WIRED AND CIRCUITED PER NEC ARTICLE 700 RULES. G. TO MAINTAIN A UNIFORM AND COORDINATED APPEARANCE ACROSS THE PROJECT, ONLY ONE APPROVED MANUFACTURER SHALL BE SELECTED
- FOR MULTIPLE FIXTURE TYPES AMONG WHICH A SIMILAR STYLE OR SERIES IS INTENDED. NON-CONFORMANCE SHALL BE JUDGED AT THE ENGINEER'S DISCRETION AND MAY REQUIRE CONTRACTOR'S RESELECTION OF SOME TYPES WITHIN THE LIST OF APPROVED MANUFACTURERS. H. A BREAK-OUT COST SHALL BE MADE AVAILABLE TO THE BIDDING
- CONTRACTOR(S) FOR ANY FIXTURE TYPES WHICH LIST A SINGLE PRODUCT. THIS PRICING SHALL BE FURNISHED TO THE ARCHITECT/ENGINEER, CONSTRUCTION MANAGER, AND/OR OWNER UPON REQUEST.

LIGHTING FIXTURE SCHEDULE LINE ITEM NOTES:

1. EMERGENCY LIGHTING CONTROL DEVICES SHALL BE WIRED WITH SUPPLY FROM EMERGENCY LIGHTING CIRCUIT, AND FROM NORMAL/UTILITY LIGHTING CIRCUIT, BOTH LINE AND LOAD SIDE OF RESPECTIVE CONTROL DEVICE(S) FOR THE LIGHTING CONTROL ZONE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.

TYPE / TAG

P6040G EM

- 2. EMERGENCY LIGHTING UNIT EQUIPMENT (INCLUDING BATTERY PACKS, EXIT SIGNS, INVERTERS, ETC.) SHALL HAVE 5-YEAR MANUFACTURER WARRANTY, TEST SWITCH AND CHARGE INDICATOR LIGHT. PROVIDE UNSWITCHED HOT CONDUCTOR FROM RESPECTIVE LOCAL LIGHTING CIRCUIT TO THE BATTERY.
- 3. COORDINATE EXACT LOCATIONS OF FIXTURES IN UTILITY ROOMS WITH EQUIPMENT, DUCTWORK, PIPING, ETC. IN FIELD TO ACHIEVE UNIFORM ILLUMINATION.
- 4. PROVIDE FEED POINT ON ENTIRE TRACK SYSTEM ARRANGEMENT WITH 3A CURRENT LIMITER DEVICE AS REQUIRED FOR NEC COMPLIANCE.
- 5. PROVIDE FEED POINT ON ENTIRE TRACK SYSTEM ARRANGEMENT WITH 12A CURRENT LIMITER DEVICE AS REQUIRED FOR NEC COMPLIANCE.





PROJECTOR 2D

			LIGHTING FIXTURE SCHEDULE						
			APPROVED MANUFACTURERS & CATALOG NUMBERS						
TYPE / TAG	DESCRIPTION	BASIS	EQUIVALENT #1	EQUIVALENT #2	FINISH	MOUNTING	MIN. DELIVERED LUMENS TYPE	DRIVER TYPE	(V) (V
A16	16' LONG SUSPENDED LED LINEAR, DIRECT LIGHTING	FINELITE: HP-2-P-16-H-840-F-96-277-MC-FC-10%-FIN-DMX-FA100-C1	LITECONTROL: 2L-P-D-16'-08-SOF-CC-40K-D065-D01-1C-UNV-FA2	AXIS: TB2DLED-1000-80-40-SO-16-W-277-DP-2-E-CT15	BLUE/ORANGE	SUSPENDED FROM CEILING AT 14'-0" AFF	10324 4000K LED	0-10V DIMMING	277 V
A16 EM	SAME AS TYPE 'A16' BUT TIED TO THE GENERATOR	FINELITE: HP-2-P-16-H-840-F-96-277-MC-FC-10%-FIN-DMX-FA100-C1	LITECONTROL: 2L-P-D-16'-08-SOF-CC-40K-D065-D01-1C-UNV-FA2	AXIS: TB2DLED-750-80-40-SO-16-W-277-DPE-CT15	BLUE/ORANGE	SUSPENDED FROM CEILING AT 14'-0" AFF	10324 4000K LED	0-10V DIMMING	277 V
B1	2'x2' RECESSED LOW-PROFILE EDGE-LIT PANEL, FULLY-LUMINOUS DIFFUSE ACRYLIC LENS FRAMED IN	LITHONIA: EPANL-2x2-3400LM-80CRI-40K-MIN1-EZT-MVOLT	COLUMBIA: CFP22-3340	METALUX: 22FP4240C	WHITE	RECESSED IN ACOUSTICAL CEILING	3566 4000K LED	0-10V DIMMING	277 V
B1 EM	EXTRUDED ALUMINUM BEZEL, DLC QUALIFIED	LITHONIA: EPANL-2x2-3400LM-80CRI-40K-MIN1-EZT-MVOLT			WHITE	RECESSED IN ACOUSTICAL CEILING	4000K LED	0-10V DIMMING	277 V
B1H EM	SAME AS TYPE 'B1H' BUT TIED TO THE GENERATOR	LITHONIA: EPANL-2x2-3400LM-80CRI-40K-MIN1-EZT-MVOLT	COLUMBIA: CFP22-3340	METALUX: 22FP4240C	WHITE	RECESSED IN ACOUSTICAL CEILING	3566 4000K LED	0-10V DIMMING	277 V
В3	EXTRUDED ALUMINUM BEZEL, DLC QUALIFIED	LITHONIA: EPANL-1x4-4000LM-80CRI-40K-MIN1-E21-MVOL1		METALUX: 140G140400	VVHILE	RECESSED IN ACOUSTICAL CEILING	3963 4000K LED	0-10V DIMINING	277 V
B3 EM	SAME AS TYPE 'B3' BUT TIED TO THE GENERATOR	LITHONIA: EPANL-1x4-4000LM-80CRI-40K-MIN1-EZT-MVOLT	COLUMBIA: CFP14-4140	METALUX:14CGT4040C	WHITE	RECESSED IN A HARD LID CEILING	3963 4000K LED	0-10V DIMMING	277 V
B4	2'x4' RECESSED LOW-PROFILE EDGE-LIT PANEL, FULLY-LUMINOUS DIFFUSE ACRYLIC LENS FRAMED IN	LITHONIA: EPANL-2x4-4000LM-80CRI-40K-MIN1-EZT-MV0LT	COLUMBIA: CFP24-4140	METALUX: 24FP4740C	WHITE	RECESSED IN ACOUSTICAL CEILING	4240 4000K LED	0-10V DIMMING	277 V
B4 EM	SAME AS TYPE 'B4' BUT TIED TO THE GENERATOR	LITHONIA: EPANL-2x4-4000LM-80CRI-40K-MIN1-EZT-MVOLT	COLUMBIA: CFP24-4140	METALUX: 24FP4740C	WHITE	RECESSED IN ACOUSTICAL CEILING	4240 4000K LED	0-10V DIMMING	277 V
C4	3-4" APERTURE RECESSED LINEAR, RECTANGULAR PROFILE, FLUSH ACRYLIC LENS, 4' LENGTH	FINELITE HP-4R-D-4'-H-840-F-96LG-120-SC-FC-10%-FIN-DMX-C1-FE-SW- EM/GEN-OBO	LITECONTROL: 4L-XX-D-4'-4-SOF-C1-40K-D075-D01-1C-UNV-W2-NXSW	AXIS: BBRLED-400-80-40-FL-4-W-UNV-DP-1+E-T*15-OS	WHITE	FLUSH IN ACOUSTICAL CEILING	1589 4000K LED	0-10V DIMMING	277 V
C4 EM	SAME AS TYPE 'C4' BUT TIED TO THE GENERATOR	FINELITE HP-4R-D-4'-H-840-F-96LG-120-SC-FC-10%-FIN-DMX-C1-FE-SW- EM/GEN-OBO	LITECONTROL: 4L-XX-D-4'-4-SOF-C1-40K-D075-D01-1C-UNV-W2-NXSW	AXIS: BBRLED-400-80-40-FL-4-W-UNV-DP-1+E-T*15-OS	WHITE	FLUSH IN ACOUSTICAL CEILING	1589 4000K LED	0-10V DIMMING	277 V
C6	3-4" APERTURE RECESSED LINEAR, RECTANGULAR PROFILE, FLUSH ACRYLIC LENS, 6' LENGTH	FINELITE	LITECONTROL: 4L-XX-D-6'-6-SOF-C1-40K-D075-D01-1C-UNV-W2-NXSW	AXIS: BBRLED-400-80-40-FL-6-W-UNV-DP-1+E-T*15-OS	WHITE	FLUSH IN ACOUSTICAL CEILING	2384 4000K LED	0-10V DIMMING	277 V
$\sim \gamma \sim \gamma$	$\neg \gamma \gamma$	EM/GEI-OBO	$\mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A} \mathcal{A} $	$\mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} $	$\mathbf{v} \mathbf{w} \mathbf{w}$			$\gamma \gamma$	YY
	6" LED ROUND OPEN DOWNLIGHT	GOTHAM: EVO6 QS 40/15 AR MD LSS MVOLT GZ1 TRW VIS CR31701-1 K-HJWK T-906R XX-AMO	Phinacher Ex4Dina Aet-Cloud 50-Chora 650-20-40-U-Phe-10-CCAM	MICROBIAL)	COLOR CHOSEN IN		1471 4000K LED		
E1 EM	SAME AS TYPE 'E1' BUT TIED TO THE GENERATOR	VISA: CB3170: L40K-H-MVOLT-90CRI-XX-AMC	PINNACLE: EX4DI-A-HE*-CL940650-CL940650-4'-WA-U-PL2-1-0-CC-AM	AXIS: TB4WDILED-650-650-80-40-SO-SO-4'-C-UNV-DP-1-C(ANIT MICROBIAL)	I CUSTOM RAL COLOR CHOSEN IN SUBMITTALS	WALL MOUNTED AT 14'-0" AFF	5600 4000K LED	0-10V DIMMING	277 V
G1	LED HIGH BAY LIGHT FIXTURE, REMOTE DRIVERS REQUIRED	LITHONIA: JCBL 24000LM ACFR 40K 80CRI	COLUMBIA: CRN2-40MV-EDU-FP-WW18	METALUX: UHB-24-UNV-L840-CD-U UHB-CLR14	WHITE	SUSPENDED FROM CEILING	23459 4000K LED	0-10V DIMMING	277 V
G1 EM H1	SAME AS TYPE 'G1' BUT TIED TO THE GENERATOR 4' WIDE SUSPENED LINEAR FIXTURE IN "V' SHAPE (90 DEGREE ANGLE) EACH LEG 4' 8' TOTAL LENGTH	LITHONIA: JCBL 24000LM ACFR 40K 80CRI	COLUMBIA: CRN2-40MV-EDU-FP-WW18	METALUX: UHB-24-UNV-L840-CD-U UHB-CLR14	WHITE	SUSPENDED FROM CEILING SUSPENDED FROM CEILING AT 14'-0" AFF	23459 4000K LED 2974 4000K LED	0-10V DIMMING	277 V 277 V
H1	ILLUMINATED MITERED CORNER, DIRECT/INDIRECT OPTICS, EXTRUDED ALUMINUM HOUSING, FLUSH DIFFUSED ACRYLIC LENS 4' WIDE SUSPENED LINEAR FIXTURE IN "V' SHAPE (90 DEGREE ANGLE), EACH LEG 4', 8' TOTAL LENGTH	HP-4-P-ID-4-S-H-840-F-96LG-277-SC-FC-10%-FIN-DMX-FA50-C 1-FE-S FINELITE:	LITECONTROL: 4L-P-ID-STD-8'-4-SOE-C1-40K-I075-D075-D01-1C-LINV/-FA2-C90L	TB4DIPAT-L-8'-90-400-700-8040-SO-SO-NL-W-UNV-DP-1-XX	WHITE	SUSPENDED FROM CEILING AT 14'-0" AFF	2974 4000K LED		277 \/
	ILLUMINATED MITERED CORNER, DIRECT/INDIRECT OPTICS, EXTRUDED ALUMINUM HOUSING, FLUSH DIFFUSED ACRYLIC LENS	HP-4-P-ID-4-S-H-840-F-96LG-277-SC-FC-10%-FIN-DMX-FA50-C 1-FE-S FINELITE:	LITECONTROL: 4L-P-ID-STD-8'-4-SOF-C1-40K-I075-D075-D01-1C-LINV/FA2-C90L	TB4DIPAT-L-8'-90-400-700-8040-SO-SO-NL-W-UNV-DP-1-XX	WHITE	SUSPENDED FROM CEILING AT 14-0" AFF	2974 4000K LED		277 \/
		HP-4-P-ID-4-S-H-840-F-96LG-277-SC-FC-10%-FIN-DMX-FA50-C 1-FE-S		TB4DIPAT-L-8'-90-400-700-8040-SO-SO-NL-W-UNV-DP-1-XX			2574 4000K LED		
Π2		HP-4-P-ID-8-S-H-840-F-96LG-277-SC-FC-10%-FIN-DMX-FA50-C 1-FE-S	LITECONTROL. 4L-P-ID-STD-8-6-50F-C1-40K-1075-D075-D01-1C-UNV-FA2-C90L	AAIS. TB4DILED-1100-1100-00-40-SO-SO-6-W-UNV-DP1-AA			9676 4000K LED		277 V
H2 EM	SAME AS TYPE 'H2' BUT TIED TO THE GENERATOR	FINELITE: HP-4-P-ID-8-S-H-840-F-96LG-277-SC-FC-10%-FIN-DMX-FA50-C 1-FE-S	LITECONTROL: 4L-P-ID-STD-8'-8-SOF-C1-40K-I075-D075-D01-1C-UNV-FA2-C90L	AXIS: TB4DILED-1100-1100-80-40-SO-SO-8-W-UNV-DP1-XX	WHITE	SUSPENDED FROM CEILING AT 11'-0" AFF	9676 4000K LED	0-10V DIMMING	277 V
J2	2' LENGTH WALL MOUNTED RECTANGULAR LED 2	LITHONIA: WL2 18L EZ1 LP840	COLUMBIA: MPS2-40MW-FW-EDU	METALUX: 2SWLED-20SL-LW-UNV-L840-CD1-U	WHITE	SURFACE MOUNTED AT 7'-0"	1889 4000K LED	0-10V DIMMING	277 V
J4	4' LENGTH WALL MOUNTED RECTANGULAR LED	LITHONIA: WL4 20L EZ1 LP840	COLUMBIA: MPS4-40XW-FW-EDU	METALUX: 4SWLED-20SL-LW-UNV-L840-CD1-U	WHITE	SURFACE MOUNTED AT 7'-0"	2255 4000K LED	0-10V DIMMING	277 V
K1 EM	4' LENGTH LED STRIP LIGHT 4' LENGTH LED STRIP LIGHT	LITHONIA: ZLD1 L48 5000LM FST MVOLT 40K 80CRI	COLUMBIA: MPS4-40HL-CW-EDU COLUMBIA: MPS4-40HL-CW-EDU	METALUX: 4SLSTP4040DD-UNV METALUX: 4SLSTP4040DD-UNV	WHITE	SURFACE MOUNTED ON CEILING SURFACE MOUNTED ON CEILING	5541 4000K LED 5541 4000K LED	0-10V DIMMING	277 V 277 V
P1	4" DIAMETER, 8-10" LENGTH, ALUMINUM CONSTRUCTED LED CYLINDER WITH SINGLE CORD, LOW PROFILE	BEGA: 50 245.2 - K4 - LPC	ALW: C2LP-R-V-D-07-83-40-40-SB-BK	FC LIGHTING: SSC4-08-AC-UNV-940-05L-BKI-50-LD	BLACK	SUSPENDED FROM CEILING AT 7'-6" AFF	380 4000K LED	0-10V DIMMING	277 V
P10	10" DIAMETER DIFFUSE CYLINDER	VISA: CP4341-L40K-DOWNLIGHT-H-MED	CAMMAN: 4100-24-40K-BM-CLV-MV-WM PMW-ST	SPI LIGHTING:	WHITE	SUSPENDED FROM CEILING AT 14'-0" AFF	2000 4000K LED	0-10V DIMMING	277 V
P10 FM	SAME AS P10 BUT TIED TO THE EMERGENCY GENERATOR	VISA: CP4341-I 35K-DOWNI IGHT-H-NRW	CAMMAN: 4100-24-40K-BM-CI V-MV-WM PMW-ST	SIP12069-L21W-120-277V-4000K-14W-55-DF-MA01-DF-PSA	WHITE	SUSPENDED FROM CEILING AT 14'-0" AFE	2000 4000K LED		277 \/
				SIP12069-L21W-120-277V-4000K-14W-55-DF-MA01-DF-PSA					277 V
P48G	48" DIAMETER LED FABRIC DRUM, WASHABLE DIFFUSER, ACRYLIC LENS	LUMETTA: P54814-F11-D57-L413-LED-277-CCT-4000K-CRI-90	BARBICAN: 48D-10H-HTO-277V-4000K-90CRI-ACW-WHT-LED5700LM/60W-DB(0-10V)	LUMENART: RDP-48X14-LED60W-277V-4K-SN-ST-TL/GREEN-0-10V	CUSTOM RAL COLOR CHOSEN IN SUBMITTALS	SUSPENDED FROM CEILING AT 8'-0" AFF	6420 4000K LED	0-10V DIMMING	277 V
P60G	60" DIAMETER LED FABRIC DRUM, WASHABLE DIFFUSER, ACRYLIC LENS	LUMETTA: P56017-F11-D57-L413-LED-277-CCT-4000K-CRI-90	BARBICAN: 60D-10H-HTO-277V-4000K-90CRI-ACW-WHT-LED5700LM/60W-DB(0-10V)	LUMENART: RDP-60X14-LED60W-277V-4K-SN-ST-TL/GREEN-0-10V	CUSTOM RAL COLOR CHOSEN IN SUBMITTALS	SUSPENDED FROM CEILING AT 8'-4" AFF	6420 4000K LED	0-10V DIMMING	277 V
P6040G	60" AND 48" LED CASCADING RING LIGHTS	DELRAY: BG6754-RAL-HO-W40-CR-D	ALW: MR3-2M/5/4-CAS- <ed 1%-lens-n-n-n-tbd-unv-cust<br="" 10v="" 4000-0="" 90="">INTEGRAL DRIVERS</ed>	G LIGHTING: GL-2739-SPL-PTD-1-A & GL-2726-SPL-PTD-1-A	CUSTOM RAL COLOR CHOSEN IN SUBMITTALS	SUSPENDED FROM CEILING AT 8'-4" AFF	16165 4000K LED	0-10V DIMMING	277 V
P6040G EM	SAME AS TYPE 'P6040G' BUT TIED TO THE GENERATOR	DELRAY: BG6754-RAL-HO-W40-CR-D	ALW: MR3-2M/5/4-CAS- <ed 1%-lens-n-n-n-tbd-unv-cust<br="" 10v="" 4000-0="" 90="">INTEGRAL DRIVERS</ed>	G LIGHTING: GL-2739-SPL-PTD-1-A & GL-2726-SPL-PTD-1-A	CUSTOM RAL COLOR CHOSEN IN	SUSPENDED FROM CEILING AT 8'-4" AFF	16165 4000K LED	0-10V DIMMING	277 V
S1	ARCHITECTURAL AREA SINGLE HEAD LED FIXTURE, TYPE 2M DISTRIBUTION, DIE CAST ALUMINUM HOUSING, OUTDOOR WET LOCATION LISTING	LITHONIA: DXS1 LED P2 40K T2M 480	HUBBELL: RAR1-	MCGRAW EDISON: GLEON	BLACK	SITE LIGHTING POLES: 15'-0" HIGH U.N.O., ROUND STRAIGHT ALLIMINUM POLE WITH	8923 4000K LED	LED DRIVER	480 V
						ANCHOR BOLT BASE AND FULL BASE CAOVER. BASE PER DETAIL. POLEIS TO INCLUDE AN OPEING AT 10'-0" WITH A SCREEWED ON COVER			
S2	ARCHITECTURAL AREA DOUBLE HEAD LED FIXTURE, TYPE 4M DISTRIBUTION, DIE CAST ALUMINUM	LITHONIA: DXS1 LED P2 40K T4M 480	HUBBELL: RAR1	MCGRAW EDISON: GLEON	BLACK	SITE LIGHTING POLES: 15'-0" HIGH U.N.O.,	8708 4000K LED	LED DRIVER	480 V
	HOUSING, OUTDOOR WET LOCATION LISTING					ROUND STRAIGHT ALUMINUM POLE WITH ANCHOR BOLT BASE AND FULL BASE CAOVER. BASE PER DETAIL. POLEIS TO INCLUDE AN			
						FOR FUTURE CAMERA.			
S3	ARCHITECTURAL AREA SINGLE HEAD LED FIXTURE, TYPE 4M DISTRIBUTION, DIE CAST ALUMINUM HOUSING, OUTDOOR WET LOCATION LISTING	LITHONIA: DXS1 LED P3 40K T4M 480	HUBBELL: RAR1	MCGRAW EDISON: GLEON	BLACK	SITE LIGHTING POLES: 25'-0" HIGH U.N.O., ROUND STRAIGHT ALUMINUM POLE WITH ANCHOR BOLT BASE AND FULL BASE CAOVER. BASE PER DETAIL. POLEIS TO INCLUDE AN	12309 4000K LED	LED DRIVER	480 V
						FOR FUTURE CAMERA.			
S4	ARCHITECTURAL AREA SINGLE HEAD LED FIXTURE, TYPE 2M DISTRIBUTION, DIE CAST ALUMINUM HOUSING, OUTDOOR WET LOCATION LISTING	LITHONIA: DXS1 LED P3 40K T2M 480	HUBBELL: RAR1	MCGRAW EDISON: GLEON	BLACK	SITE LIGHTING POLES: 25'-0" HIGH U.N.O., ROUND STRAIGHT ALUMINUM POLE WITH ANCHOR BOLT BASE AND FULL BASE CAOVER. BASE PER DETAIL. POLEIS TO INCLUDE AN	12613 4000K LED	LED DRIVER	480 V
						OPEING AT 10'-0" WITH A SCREEWED ON COVER FOR FUTURE CAMERA.			
S5	ARCHITECTURAL AREA SINGLE HEAD LED FIXTURE, TYPE 4M DISTRIBUTION, DIE CAST ALUMINUM HOUSING, OUTDOOR WET LOCATION LISTING	LITHONIA: DXS1 LED P2 40K T4M 480	HUBBELL: RAR1	MCGRAW EDISON: GLEON	BLACK	SITE LIGHTING POLES: 15'-0" HIGH U.N.O., ROUND STRAIGHT ALUMINUM POLE WITH ANCHOR BOLT BASE AND FULL BASE CAOVER. BASE PER DETAIL. POLEIS TO INCLUDE AN	8708 4000K LED	LED DRIVER	480 V
W1 EM	4" WIDTH RECTANGULAR EXTERIOR LED WALL PACK, ALUMINUM CONSTRUCTION	LUMINAIRE: LVP85-LPL-NODIM-15W-40K-MVOLT-OP-BRZ-WL	HUBBELL: PRS-20-4K	PARAFLEX: EWP-20W-40K-BZ	BRONZE	FOR FUTURE CAMERA. MOUNT AT 6'-6" NEAR DOOR UNLESS	1000 4000K LED	LED DRIVER	277 V
\ <u>\</u> /2 EM		REGA: 66 519 - 4K - RP7			BRONZE				277.\/
vv∠ ⊏IVI	CONSTRUCTION, WET LISTED	BLGA. 00 0 19 - 4N - DKL	ALVV. N4RU-IV-I-V-I-3034UZUININ-I-3634UZUININ-DB	то центние. госототи-тим-940-15/15L-BKE-D25-D25-LD			2400 4000K LED		211 V
W3 EM	12" LEGNTH, DOWNWARD DIRECTED WALL-MOUNTED LED CYLINDER, ALUMINUM CONSTRUCTION, WET LISTED	BEGA: 66 698 - 4K - BRZ	ALW: K4RS-N-1-V-D-13834020NN-DB	FC LIGHTING: FCC600-12-WM-UNV-940-25/25L-BRE-D25-U25-LI	BRONZE	MOUNT @ APPROX 16'-0" AFF. CENTER IN ARCHITECTURAL BAND.	2465 4000K LED	LED DRIVER	277 V
W4 EM	17" LENGTH, DOWNWARD DIRECTED WALL-MOUNTED OUTDOOR ARCHITECTURAL LED WALL SCONCE, WET	LITHONIA: WST P1-40K-VF-MVOLT-DDBXD	ALW: RWL1-48L-15-4K7-4W-UNV-DBT	PARAFLEX: DC200-90-12W-40K-BZ	BRONZE	WALL MOUNT @ 9'-0", CEILING HUNG AT 12'-8"	1639 4000K LED	LED DRIVER	277 V
X1	EISTED EXIT SIGN, DIE-CAST HOUSING, SINGLE FACE, UL924 LISTING, ARROWS AND MOUNTINGS SHOWN ON	DUAL-LITE: SESRW	LITHONIA: LE-S-W-1-R	SURE-LITES: CX61WH	WHITE HOUSING,	SURFACE ON CEILING OR WALL; REFER TO	N/A RED LED	INTEGRAL	277 V
X2	DRAWINGS EXIT SIGN, DIE-CAST HOUSING, DOUBLE FACE, UL924 LISTING, ARROWS AND MOUNTINGS SHOWN ON DRAWINGS	DUAL-LITE: SEDRW	LITHONIA: LE-S-W-2-R	SURE-LITES: CX62WH	WHITE FACE WHITE HOUSING, WHITE FACE	DRAWINGS FOR CONFIGURATION/ORIENTATION SURFACE ON CEILING OR WALL; REFER TO DRAWINGS FOR CONFIGURATION/ORIENTATION	N/A RED LED	INTEGRAL	277 V
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DRAWN BDD REVIEWED AAM

PROJECT NO.

5-4922

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LIGHTING SCHEDULES & COMMUNICATION DETAILS

E5.10





SITE LIGHTING POLE FOUNDATION 1/8" = 1'-0"









GYM LIGHT FIXTURE AIR CRAFT CABLE MOUNTING 1/8" = 1'-0"

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E7.01





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ELECTRICAL DETAILS







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ELECTRICAL SITE GENERAL NOTES

- REFER TO SITE/CIVIL PLANS FOR ADDITIONAL INFORMATION.
 LOCATIONS SHOWN FOR EXISTING UTILITIES (IF ANY) ARE APPROXIMATE AND DERIVED FROM GENERAL OBSERVATION AND/OR AVAILABLE RECORDS. THIS PLAN SHALL NOT BE INTERPRETED AS SHOWING EXACT LOCATIONS OR SHOWING ALL UTILITIES IN THE AREA.
- CONTRACTOR SHALL FIELD-VERIFY LOCATIONS, SIZES, AND TYPES OF ALL EXISTING UNDERGROUND UTILITIES, CONDUITS, AND CABLES PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES TO IDENTIFY PUBLIC UTILITIES. VERIFY ALL PRIVATE UTILITIES WITH OWNER RECORDS AND MAINTENANCE PERSONNEL.
- PROTECT THE SITE, ADJACENT PROPERTY, AND UTILITY SERVICES FROM DAMAGE OR DISRUPTION OF SERVICE/ACCESS. DAMAGE TO EXISTING STRUCTURES, SITE, OR UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE
- ALL UNDERGROUND CONDUIT SHALL BE RIGID NONMETALLIC (RNC)TYPE. ALL UNDERGROUND BENDS/ELBOWS SHALL BE GALVANIZED RIGID METALLIC (RMC) TYPE, PROTECTED FROM CORROSION PER CONDUIT SPECIFICATION REQUIREMENTS.
- INSTALL DETECTABLE UNDERGROUND WARNING TAPE ABOVE ALL UNDERGROUND CONDUITS AND CABLES, COLOR PER APWA UNIFORM COLOR CODE (RED FOR ELECTRIC POWER/LIGHTING, ORANGE FOR COMMUNICATIONS/ALARM/SIGNAL). REFER TO SPECIFICATIONS.
 ALL EXISTING TREES TO REMAIN SHALL BE CAREFULLY PROTECTED. DO NOT DRIVE HEAVY FOUNDMENT WITH AS SET OF THE THEORY FOUNDMENT WITH AS SET OF THE THEORY FOUNDMENT WITH AS SET OF THE THEORY FOUNDMENT.
- 7. ALL EXISTING TREES TO REMAIN SHALL BE CAREFULLY PROTECTED. DO NOT DRIVE HEAVY EQUIPMENT WITHIN 12 FEET OF TREE TRUNKS. BRANCHES WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE CUT OUT AS DIRECTED BY THE ARCHITECT/ENGINEER. ANY ROOTS OF EXISTING TREES TO REMAIN WHICH ARE EXPOSED DUE TO DEMOLITION SHALL BE COVERED WITHIN 6 HOURS WITH SOIL. DAMAGED TREES SHALL BE REPLACED AT THE DISCRETION OF THE ARCHITECT/ENGINEER AT THE EXPENSE OF THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
- PATCH AND REPAIR GRASS AND/OR OTHER IMPROVED PLANTINGS AS REQUIRED WHERE NEW UNDERGROUND CONDUITS, CABLES, AND/OR DUCTBANKS ARE INSTALLED. CONTRACTOR SHALL BACKFILL TRENCHES, LEVEL OUT SOIL FLUSH WITH GRADE, AND REMOVE ANY EXCESS MATERIAL PRIOR TO SEEDING REPAIR.
- CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND REPAIR ANY EXISTING SURFACE FINISHES AND OTHER ITEMS THAT ARE DISTURBED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION, INCLUDING GRASS, CONCRETE, ASPHALT, LANDSCAPING, FENCING, STRUCTURES, IRRIGATION, UNDERGROUND UTILITIES, ETC.

GMB 616.796.0200 www.gmb.com S 0 0 SC AR PUBLIC -EMENT, KFORD NEW C 202 ISSUANCES 09.16.2021 BIDS & CONSTRUCTION 10/07/2021 ADDENDUM 001 DRAWN BDD REVIEWED AAM 5-4922 PROJECT NO. _____ _____ No part of this drawing may be used or reproduced in any form or by any means, or stored in a database or retrieval system, without prior written permission of GMB Copyright © 2020 All Rights Reserved _____ SITE ELECTRICAL PLAN **ES2.01**



WINDOW LEGEND 1/4" = 1'-0"

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ISSUANCES 09.16.2021 BIDS & CONSTRUCTION 10.14.2021 ADDENDUM 002 01.25.2022 BULLETIN 001

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DOOR AND FRAME TYPES

					D	OOR & F	RAME	SCHEDULE U	NIT 'A'		
DOOR NUMBER	DOOR SIZE	DOOR TYPE	FRAME TYPE	FIRE RATING	HDWR SET NO.	ELEC. HARDWARE	REMOVABLE MULLION	HEAD	JAMB	SILL	
A A 100A	3' 0 x 7' 2" x 1 3//"	A01	014		32	_		1 47 01	2 47 01	1 47 01	
A100A	(PR) 3' 0" x 7' 2" x 1 3/4"	W05	22H		42			5,A7.01	5,A7.01		
A101B	3' 0" x 7' 2" x 1 3/4"	A05	(PR)		63			1 47 01	2 47 01	1 47 01	SECURITY
A101B	3' 0" x 7' 2" x 1 3/4"	W01	01H		04	-		5, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
A103A	3' 0" x 7' 2" x 1 3/4" (7'-4")	A05	08A		52			1, <mark>A7.01</mark>	2, <mark>A7.01</mark>	1, <mark>A7.01</mark>	SECURITY
A103B	3' 0" x 7' 2" x 1 3/4" (7'-4")	A05	08A		52	-		1, <mark>A7.01</mark>	2, <mark>A7.01</mark>	1, <mark>A7.01</mark>	SECURITY
A103C	3' 0" x 7' 2" x 1 3/4" (7'-4")	A05	08A		36			5,A7.01	5, <mark>A7.01</mark>		
A103D	3' 0" x 7' 2" x 1 3/4" (7'-4")		08A		30			5/A7 01	5,47,01		
A104A	(PR) 3' 0" x 7' 2" x 1 3/4"	W05	22H		20			5 A7 01	5,A7.01		
44004		14/05	(PR)					5 47.04	5 47 04		
A106A	(PR) 3' 0" x 7' 2" x 1 3/4"	VV05	(PR)		20			5/4/ 01	5/47-01		
A107A	PR. 3' 0" x 7' 2" x 1 3/4"	H0.	02H	90	46	•		8,47.01	8,47.01		
A107B	5' 0" x 7' 4"	W05	01B		64			111 <mark>/A7_051</mark>	11 <mark>/Å7/05)</mark>		
A108A	PR. 3' 0" x 7' 2" x 1 3/4"	H01	02H	90	46			8/47 01	8, <mark>A7.01</mark>		
A108B	5' 0" x 7' 4"	W05	01B		64			111/A7 05			
A109A	(PR) 3' 0" x 7' 2" x 1 3/4"	W05	21H		20	_		5,47,01	5,47,01		
ATTOA	(FR) 3 0 X 7 2 X 1 3/4	VV05	(PR)		20			SIAT OF	<u> 3, A/ 01</u>		
A110B	3' 0" x 7' 2" x 1 3/4"	A05	20A		63	•		1, <mark>A7.01</mark>	2, <mark>A7.01</mark>	1, <mark>A7.01</mark>	SECURITY
A111A	3' 0" x 7' 2" x 1 3/4"	W01	01H		04			5 <mark>, A7, 01</mark>	5, <mark>A7.01</mark>		
A112A	(PR) 3' 0" x 7' 2" x 1 3/4"	W05	21H		20			5 <mark>,A7.01</mark>	5, <mark>A7.01</mark>		
A112B	3' 0" x 7' 2" x 1 3/4"	A05	204		63	-		1 47 01	2 47 01	1 47 01	SECURITY
A112B	3' 0" x 7' 2" x 1 3/4"	W01	01H	-	04	-		5 A7 01	5, <mark>A7,01</mark>		0L00I(III
A114A	(PR) 3' 0" x 7' 2" x 1 3/4"	W05	22H		42			5,A7.01	5, <mark>A7.01</mark>		
			(PR)								
A114B	3' 0" x 7' 2" x 1 3/4"	A05	20A		63	•		1/47.01	2,47.01	1, <u>A7.01</u>	SECURITY
A115A A116A	3 0 X 7 2 X 1 3/4" (9-4') 3' 0" x 7' 2" x 1 3/4"	W01	08H	45	28			5 47 01	5,47,01		
A116B	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	28			5 A7 01	5,A7,01		
A117A	(PR) 3' 0" x 7' 2" x 1 3/4"	W05	21H		20			5, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
			(PR)								
A118A	(PR) 3' 0" x 7' 2" x 1 3/4"	W05	22H (PR)		20			5, 47.01	5,47.01		
A119A	3' 0" x 7' 2" x 1 3/4"	W01	01H		03			5 A7 01	5 <mark>, A7, 01</mark>		
A120A	3' 0" x 7' 2" x 1 3/4"	W01	01H		03			5, <mark>A7 01</mark>	5, <mark>A7.01</mark>		
A121A	3' 0" x 7' 2" x 1 3/4"	W01	28A		24			14 <mark>'A7_04</mark>	13'A7 04		
A122A	3' 0" x 7' 2" x 1 3/4"	W01	01H		06			5 <mark>, A7, 01</mark>	5, <mark>A7.01</mark>		
A123A	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	29	-		5,A7 01	5, <mark>A7 01</mark>		
A124A	3' 0" X 7' 2" X 1 3/4"	VV01		45	28			5/A7 01	5/A/ 01	1 47 01	SECUDITY
A125A	PR 3' 0" x 7' 2" x 1 3/4" (10'-6")	A05	09A		38	-	-	3 A7 01	3 A7 01		SECORITI
A126A	3' 0" x 7' 2" x 1 3/4"	W05	24H		40			5,A7.01	5, <mark>A7.01</mark>		
A126B	3' 0" x 7' 2" x 1 3/4"	A05	20A		63			1, <mark>A7.01</mark>	2, <mark>A7.01</mark>	1, <mark>A7.01</mark>	SECURITY
A127A	3' 0" x 7' 2" x 1 3/4"	W01	01H		04			5, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
A128A	3' 0" x 7' 2" x 1 3/4"	W01	01H	_	04			5, <mark>A7.01</mark>	5, <mark>A7 01</mark>		
A129A	3' 0" x 7' 2" x 1 3/4"	W05	24H		40			5/A/01	5/A/ 01	1 47 01	SECUDITY
A129B	3' 0" x 7' 2" x 1 3/4" (7'-4")	A05	20A	-	63			1 47 01	2 A7 01	1,47,01	SECURITY
A130B	PR. 3' 0" x 7' 2" x 1 3/4"	101	02H		41	-		5, 47.01	5,A7.01		
A131B	3' 0" x 7' 2" x 1 3/4"	A05	20A		63	•		1, <mark>A7.01</mark>	2,47.01	1, <mark>A7.01</mark>	SECURITY
A131C	3' 0" x 7' 2" x 1 3/4"	W05	24H		40			5, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
A132A	3' 0" x 7' 2" x 1 3/4"	W01	01H		04			5, <mark>A7 01</mark>	5, <mark>A7 01</mark>		
A133A	3' 0" x 7' 2" x 1 3/4"	W01	01H		04			5/A7 01	5,47.01		
A 134A	$3 \cup x i \angle x 3/4$ 3' 0" x 7' 2" x 1 3/4"		24⊟ 20∆		40 63			1 47 01	2 47 01	1 47 01	SECURITY
A135A	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	28						
A136A	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	28	-					
A137A	3' 0" x 7' 2" x 1 3/4" (5'-4")	W01	05H		15		1	5 A7 01	5 A7 01		

BORROWED LITE LEGEND 1/4" = 1'-0"

					DC	OOR & F	RAME S	CHEDULE UNIT	'B'		
DOOR NUMBER	DOOR SIZE	DOOR TYPE	FRAME TYPE	FIRE RATING	HDWR SET NO.	ELEC. HARDWARE	REMOVABLE MULLION	HEAD	JAMB	SILL	REMARKS
3 3101A	3' 0" x 7' 2" x 1 3/4" (7'-4")	W01	08H		22			5 <mark>, A7 01</mark>	5, <mark>A7.01</mark>		
3102A	3' 0" x 7' 2" x 1 3/4"	W02	01H		18			7,A7.01	7,A7.01		
3103A 3104A	3' 0" x 7' 2" x 1 3/4"	W01	01H 01H	45	28			7, <mark>A7.01</mark>	7, <mark>A7.01</mark>		
3105A	3' 0" x 7' 2" x 1 3/4"	W02	01H		13			7, <mark>A7.01</mark>	7, <mark>A7.01</mark>		
3106A 3107A	3' 0" x 7' 2" x 1 3/4" 3' 0" x 7' 2" x 1 3/4"	W02 W02	01H 01H		13 18	•		7,A7,01 7,A7,01	7,A7,01 7,A7,01		
3108A	3' 0" x 7' 2" x 1 3/4"	W01	01H		23			5, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
3109A 3110A	3' 0" x 7' 2" x 1 3/4" (5'-4") 3' 0" x 7' 2" x 1 3/4"	W01 W02	05H 01H		34 13	•		5, A7 01 7, A7 01	5, A7 01 7, A7 01		
3111A	3' 0" x 7' 2" x 1 3/4"	W01	01H		05	_		7, <mark>A7.01</mark>	7, <mark>A7.01</mark>		
3112A	3' 0" x 7' 2" x 1 3/4"	W04	01H 01H		13	•		7,A7.01	7,A7 01		
3114A	3' 0" x 7' 2" x 1 3/4"	W01	01H		00			7, <mark>A7.01</mark>	7, <mark>A7.01</mark>		
B115A	3' 0" x 7' 2" x 1 3/4" (7'-4")	A05	08A		25	•		5, A7, 01	5,A7.01		
3115B 3116A	3' 0" x 7' 2" x 1 3/4" (5 -4')	A05	05A 22A		33 51	•		5/47 01	5,47.01		SECURITY FILM
3116B	3' 0" x 7' 2" x 1 3/4"	A05	22A		58						SECURITY FILM
3116C 3116D	3' 0" x 7' 2" x 1 3/4" 3' 0" x 7' 2" x 1 3/4"	A05	22A 22A		56 58	•					SECURITY FILM
3116E	3' 0" x 7' 2" x 1 3/4"	A05	23A		50	-					
3116F	3' 0" x 7' 2" x 1 3/4"	A05	23A 23A		48 49	•		3, <mark>A7.01</mark>	3 <mark>, A7.01</mark>		
3116H	3' 0" x 7' 2" x 1 3/4"	A05	23A		48	-		3, <mark>A7.01</mark>	3, <mark>A7.01</mark>		
3119A	3' 0" x 7' 2" x 1 3/4" (5'-4")	W05	05H		17	•		5, <mark>A7.01</mark>	5 <mark>, A7 01</mark>		
3120A	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	28	•		5, <mark>A7.01</mark>	5 <mark>, A7 01</mark>		
3121A	3' 0" x 7' 2" x 1 3/4" (8'-8")	W01	08H	45	18			5,A7.01	5,A7.01		
3122A 3123A	3' 0" x 7' 2" x 1 3/4"	W01 W05	01H 23H	45	21 43			7,A7.01	17 A7 01		
3123B	(PR) 3' 0" x 7' 2" x 1 3/4"	A05	25A (PR)		61						SECURITY FILM
3124A 3124B	3' 0" x 7' 2" x 1 3/4" (4'-8") 3' 0" x 7' 2" x 1 3/4" (4'-8")	W01	05H 05H		13	•		5, A7 01	5, A7 01		
3125A	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	28	-		5, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
3126A	3' 0" x 7' 2" x 1 3/4" (5'-4")	W05	05H 01B		16 65	•		5,A7.01	5,A7.01		
3126C	3' 0" x 7' 10" x 1 3/4"	A05	20A		55						SECURITY FILM
3127A	3' 0" x 7' 2" x 1 3/4" (5'-4")	W05	05H		16	•		5, A7 01	5, A7 01		
31276 3127C	3' 0" x 7' 10" x 1 3/4"	A05	20A		55	•		SALOT	SALUT		SECURITY FILM
3128A	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	28			5,A7.01	5, A7 01		
3129A 3132A	3' 0" x 7' 2" x 1 3/4" PR. 3' 0" x 7' 2" x 1 3/4" (10'-0")	<u>105</u>	01H 07A	45	28 38			3,A7.01	3,A7,01		
3132B	3' 0" x 7' 2" x 1 3/4"	A05	21A		54			1,A7.01	2,47.01	1, <mark>A7.01</mark>	SECURITY FILM
3132C 3133A	3' 0" x 7' 2" x 1 3/4" 3' 0" x 7' 2" x 1 3/4" (5'-4")	A05	21A 05H		57 16	•		1/A/ 01 5/A7 01	2,47,01 5,47,01	1,4/01	
3134A	3' 0" x 7' 2" x 1 3/4"	W01	01H		04			5, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
3135A 3136A	3' 0" x 7' 2" x 1 3/4"	W02	01H 02H		10 44			5, A7 01 5, A7 01	5, A7 01 5, A7 01		
3136B	PR. 3' 0" x 7' 2" x 1 3/4"	<mark>/</mark> 01	02A		62	-		1, <mark>A7.01</mark>	2,A7.01	1, <mark>A7.01</mark>	
3137 3138	3' 0" x 7' 2" x 1 3/4"	W01	01H 01H		09 09			5, A7 01	5, A7 01		
3139	3' 0" x 7' 2" x 1 3/4"	W01	01H		09			5, <mark>A7.01</mark>	5, <mark>A7 01</mark>		
3141A	PR. 3' 0" x 7' 2" x 1 3/4"		02H	45 45	14	•		5 <mark>, A7_01_</mark>	5,A7 01		
3143A	PR. 3' 0" x 7' 2" x 1 3/4"	H01	02H	45	47	•		5, <mark>A7.01</mark>	5, <mark>A7 01</mark>		
3144A	PR. 3' 0" x 7' 2" x 1 3/4"	<mark>4</mark> 01	02A	45	53			1,A7.01	2,A7 01	1, <mark>A7 01</mark>	
31446 3145A	PR. 3' 0" x 7' 2" x 1 3/4"	H)1	02H 02H	45 45	12			5, <mark>A7 01</mark>	5, <mark>A7 01</mark>		
3146A	3' 0" x 7' 2" x 1 3/4"	H01	01H		19			5, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
3148A 3149A	3' 0" x /' 2" x 1 3/4"	VV01	01H 02H		21 26	•		5/A7 01	5,A7,01		
3149B	10'-0" x 8'-0" (FACE MOUNT)		RO1		66			14 <mark>'A7.01</mark>	14'A7.01		COVER ABOVE CEILING
3150A 3150B	PR. 3' 0" x 7' 2" x 1 3/4" PR. 3' 0" x 7' 2" x 1 3/4"	WO	02H 02H	45 45	30 30	•		5,A7 01 5,A7 01	5 A7 01		
3151A	10'-0" x 9'-0" (FACE MOUNT)		RO1		66	-		14 <mark>'A7 01</mark>	14 'A7 01		COVER ABOVE CEILING
3151B	PR. 3' 0" x 7' 2" x 1 3/4" (10 ⁻ -0")	W05	09H		45 63	•		5,A7.01	5 <mark>, A7 01</mark>		
3151D	3' 0" x 7' 2" x 1 3/4"	A05	24A		63						SECURITY FILM
3152A	PR. 3' 0" x 7' 2" x 1 3/4"	H)1	02H 01⊔	45	12	_		5, A7 01	5,A7 01		
3153A 3154A	3' 0" x 7' 2" x 1 3/4"	H01	01H	45	02			5,A7.01	5, <mark>A7.01</mark>		
B155A	3' 0" x 7' 2" x 1 3/4"	H01	01H	45	28			5, A7 01	5,A7 01		
3201A	3' 0 x 7' 2" x 1 3/4"	A01	01A		∠ <i>i</i> 11			1,A7_01	2,A7 01		

SIDE LITE

LITE

HOLLOW METAL

FLUSH

DOOR TYPE LEGEND 1/4" = 1'-0"

					D		RAMES	SCHEDULE (JNIT 'C'		
							NO		DETAILS		
DOOR NUMBER	DOOR SIZE	DOOR TYPE	FRAME TYPE	FIRE RATING	HDWR SET NO.	ELEC. HARDWARE		HEAD) JAMB	SILL	
C C101A 3	3' 0" x 7' 2" x 1 3/4" (5'-4")	 W01	05H		16			5 <mark>A7 01</mark>	5,47.01		
C104A 3	3' 0" x 7' 2" x 1 3/4"	W01	01H		07			5 A7 01	5 A7 01		
C105A 3	3' 0" x 7' 2" x 1 3/4"	W01	01H		03			5, <mark>A7.01</mark>	5,A7.01		
C106A 3	3' 0" x 7' 2" x 1 3/4"	W01	01H		03			5 <mark>, A7, 01</mark>	5, <mark>A7.01</mark>		
C107A 3	3' 0" x 7' 2" x 1 3/4"	W01	28A		24		1	13'A7 04	13'A7 04		
C108A 3	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	28		1	5, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
C108B 3	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	28	-	1	5,A7.01	5, <mark>A7.01</mark>		
C109A 3	3' 0" x 7' 2" x 1 3/4" (9'-4")	W05	08H		13			7, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
C110A F	PR. 3' 0" x 7' 2" x 1 3/4"	HO1	02H	90	46			8, <mark>A7.01</mark>	8 <mark>, A7, 01</mark>		
C111A ((PR) 3' 0" x 7' 2" x 1 3/4"	 W05	22H (PR)		20			5, A7.01	5, <mark>A7.01</mark>		
C112A ((PR) 3' 0" x 7' 2" x 1 3/4"	W05	21H (PR)		20			5,A7,01	5, <mark>A7.01</mark>		
C113A 5	5' 0" x 7' 4"	W05	01B		64		1	11/A7.05	11 <mark>/A7 05</mark>)		
C114A ((PR) 3' 0" x 7' 2" x 1 3/4"	W05	21H (PR)		20			5, A7 01	5,A7 01		
C115A ((PR) 3' 0" x 7' 2" x 1 3/4"	W05	22H (PR)		20			5 <mark>, A7 01</mark>	5, <mark>A7 01</mark>		
C116A ((PR) 3' 0" x 7' 2" x 1 3/4"	W05	22H (PR)		20			5, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
C117A ((PR) 3' 0" x 7' 2" x 1 3/4"	W05	21H (PR)		20			5 <mark>, A7 01</mark>	5,A7 01		
C118A 5	5' 0" x 7' 4"	W05	01B		64			11 A7 05	11/47 05		
C119A ((PR) 3' 0" x 7' 2" x 1 3/4"	W05	21H (PR)		20			5,A7.01	5, <mark>A7.01</mark>		
C120A ((PR) 3' 0" x 7' 2" x 1 3/4"	W05	22H (PR)		20			5, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
C121A 3	3' 0" x 7' 2" x 1 3/4" (4'-9")	W05	05H		13			7, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
C122A F	PR. 3' 0" x 7' 2" x 1 3/4"	H01	02H	90	46	•		8, <mark>A7.01</mark>	8, <mark>A7.01</mark>		
C123A 3	3' 0" x 7' 2" x 1 3/4" (7'-4")	A05	08A		52	•		1, <mark>A7.01</mark>	2, <mark>A7.01</mark>	1, <mark>A7.01</mark>	SECURITY FILM
C123B 3	3' 0" x 7' 2" x 1 3/4" (7'-4")	A05	08A		52			1, <mark>A7.01</mark>	2, <mark>A7.01</mark>	1, <mark>A7.01</mark>	SECURITY FILM
C123C 3	3' 0" x 7' 2" x 1 3/4" (7'-4")	A05	08A		36			5 <mark>, A7, 01</mark>	5, <mark>A7.01</mark>		
C123D 3	3' 0" x 7' 2" x 1 3/4" (7'-4")	A05	08A		36			5 <mark>, A7, 01</mark>	5, <mark>A7.01</mark>		
C125A 3	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	28			5 <mark>, A7 01</mark>	5, <mark>A7 01</mark>		
C126A 3	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	28			5, <mark>A7.01</mark>	5, <mark>A7.01</mark>		
C128A 3	3' 0" x 7' 2" x 1 3/4"	W01	01H	45	22			5 <mark>, A7, 01</mark>	5 <mark>, A7, 01</mark>		

SIDE NARROW LITE

GLASS SEE GLAZING NOTE

--GLASS SEE GLAZING NOTE

PANIC & PUSH PULL HARDWARE TO BE MOUNTED

BEHIND CENTERLINE

—GLASS SEE GLAZING NOTE

PANIC & PUSH

PULL HARDWARE

TO BE MOUNTED BEHIND CENTERLINE

0

A06 ALUMINUM

FLUSH W/ FULL

LITE

DOOR NUMBERING LEGEND

(R01) ROLLING FIRE DOOR W/ INTEGRAL FRAME

ISSUANCES 09.16.2021 BIDS & 01.25.2022 BULLETIN 001 03.15.2022 BULLETIN 003 03.31.2022 BULLETIN 004

CONSTRUCTION 10.14.2021 ADDENDUM 002 10.21.2021 ADDENDUM 003

RCD/EEM DRAWN REVIEWED AMS

5-4922 PROJECT NO.

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DOOR AND FRAME SCHEDULE

FIR<u>ST</u> FL<u>OOR</u> 100' - 0"

09.16.2021 BIDS & CONSTRUCTION

ISSUANCES

DRAWN RCD REVIEWED AMS

PROJECT NO.

5-4922

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LO<u>W ROOF</u> 113' - 4"

<u>_____FIRST FLOOR</u> 100' - 0"

_____<u>MID ROOF</u>______

L<u>OW ROOF</u> 113' - 4"

FIR<u>ST</u> FL<u>OOR</u> 100' - 0"

MID ROOF 118' - 0"

LOW ROOF 113'-4"

______ FI<u>RS</u>T F<u>LOOR</u>______

S

ISSUANCES 09.16.2021 BIDS & CONSTRUCTION

DRAWN RCD REVIEWED AMS

PROJECT NO.

5-4922

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- <u>MID ROOF</u> 118'-0" L<u>OW ROOF</u> \mathbf{O} SC AR PUBLIC EMENT, ORD NEW _____FIR<u>ST FLOOR</u>_____ \mathbf{O} ISSUANCES 09.16.2021 BIDS & CONSTRUCTION MID ROOF 118' - 0"

FIR<u>ST</u> FLOOR 100' - 0"

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DRAWN RCD REVIEWED AMS

GY<u>M ROOF</u> 132' - 0"

_____MID_ROOF______ 118' - 0"______

___LO<u>W ROOF</u>_____

<u>FIRST FLOOR</u> 100' - 0"

<u>MID ROOF</u> 118' - 0"

AR ELEMENT, NEW

SC PUBLIC CKFORD RO

ISSUANCES 09.16.2021 BIDS & CONSTRUCTION

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SC ELEMENTARY PUBLIC ROCKFORD NEW ISSUANCES 09.16.2021 BIDS & CONSTRUCTION DRAWN RCD REVIEWED AMS PROJECT NO. 5-4922 No part of this drawing may be used or reproduced in any form or by any means, or stored in a database or retrieval system, without prior written permission of

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______MID_ROOF______ 118' - 0"______

ELEMENTARY SC PUBLIC ROCKFORD NEW ISSUANCES

09.16.2021 BIDS & CONSTRUCTION 04.12.2023 BULLETIN 011

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DRAWN RCD REVIEWED AMS

PROJECT NO. _____

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5-4922

BUILDING SECTIONS

_____MID ROOF______ 118' - 0"______

LOW ROOF 113' - 4"

FIRS<u>T FLOOR</u> 100' - 0"

S 0 <u>O</u> SCF ELEMENTARY PUBLIC CKFORD NEW 80% ISSUANCES 09.16.2021 BIDS & CONSTRUCTION DRAWN RCD REVIEWED AS PROJECT NO. 5-4922 _____ No part of this drawing may be used or reproduced in any form or by any means, or stored in a database or retrieval system, without prior written permission of GMB Copyright © 2020 All Rights Reserved

OVERALL FLOOR PLAN BASE BID

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OVERALL FLOOR PLAN ADD ALTERNATE G-1

- (Nor

130' - 6"

34' - 6"

28' - 6"

22' - 10"

44' - 8"

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ENT ЫN NEW

SC PUBLIC KFORD U 202

ISSUANCES 09.16.2021 BIDS & CONSTRUCTION

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REVIEWED AS PROJECT NO. 5-4922

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ALTERNATE PLANS & RENDERINGS G-1

NEW ELEMENTARY

ROCKFORD PUBLIC SCHOOLS

ROCKFORD, MICHIGAN

GENERAL INFORMATION

60.00	COVER SHEET
60.01	GENERAL NOTES DIMENSIONS AND LEGENDS
<u>31.01</u>	OVERALL CODE COMPLIANCE PLAN
31.1A	UNIT 'A' CODE COMPLIANCE FLOOR PLAN
31.1B	UNIT 'B' CODE COMPLIANCE FLOOR PLAN
<u>31.1C</u>	UNIT 'C' CODE COMPLIANCE FLOOR PLAN
31.1D	UNIT 'D' CODE COMPLIANCE FLOOR PLAN
32.01	OVERALL FLOOR PLAN BASE BID
32.02	OVERALL FLOOR PLAN ADD ALTERNATE G-1
32.03	ALTERNATE PLANS & RENDERINGS G-1

CIVIL	
C0.01	OVERALL SITE SURVEY
CO.02	OVERALL SITE SURVEY
C1.00	OVERALL DEMOLITION PLAN
C2.00	OVERALL SITE PLAN
C2.01	SITE PLAN - SE
22.02	SITE PLAN - NE
C2.10	MAIN ENTRANCE IMPROVEMENTS PLAN
C2.11	BUS ENTRANCE IMPROVEMENTS PLAN
C2.12	EDGERTON AVENUE STRIPING PLAN
C3.00	OVERALL GRADING PLAN
C3.01	GRADING PLAN - SE
C3.02	GRADING PLAN - NE
<u>C3.03</u>	GRADING PLAN - NW
C4.00	OVERALL UTILITY PLAN
C4.01	UTILITY PLAN - SE
C4.02	UTILITY PLAN - NE
C4.03	UTILITY PLAN - NW
C5.01	LANDSCAPE PLAN - SE
C5.02	LANDSCAPE PLAN - NE
C5.03	LANDSCAPE PLAN - NW
C7.01	SOIL EROSION & SEDIMENT CONTROL PLAN
C8.01	SITE DETAILS
C8.02	SITE DETAILS
C8.03	SITE DETAILS

STRUCTURAL

STRUCTURAL GENERAL INFORMATION
STRUCTURAL SCHEDULES
SNOW DRIFT PLAN
MASONRY REINFORCING PLAN
UNIT 'A' FOUNDATION PLAN
UNIT 'B' FOUNDATION PLAN
UNIT 'C' FOUNDATION PLAN
UNIT 'D' FOUNDATION PLAN
UNIT 'A' LOW ROOF FRAMING PLAN
UNIT 'C' LOW ROOF FRAMING PLAN
UNIT 'D' LOW ROOF FRAMING PLAN
UNIT 'A' HIGH ROOF FRAMING PLAN
UNIT 'B' LOW ROOF FRAMING PLAN
UNIT 'C' HIGH ROOF FRAMING PLAN
UNIT 'D' HIGH ROOF FRAMING PLAN
UNIT 'B' HIGH ROOF FRAMING PLAN
FOUNDATION AND SLAB DETAILS
FLOOR FRAMING DETAILS
ROOF FRAMING DETAILS
ROOF FRAMING DETAILS

RCHITE	CTURAI	FIRE PROT	FCTION
2.1A	UNIT 'A' FLOOR PLAN	FP0.01	GENERAL FIRE PROTECTIO
2 1B	UNIT 'B' FLOOR PLAN	FP2 01	OVERALL FIRST FLOOR FIR
2.1C	UNIT 'C' ELOOR PLAN	FP2 1A	UNIT 'A' FIRST FLOOR FIRE
2 10		FP2 1B	LINIT 'B' FIRST FLOOR FIRE
2.1D		FP2 10	LINIT 'C' FIRST FLOOR FIRE
2.3B		FP2 1D	LINIT 'D' FIRST FOOR FIRE F
2.00		FP2.02	
		EP2 80	
2.30	MEZZANINE ENI ARGED & SPECIALTY PLANS	T F 2.00	
2.00	LINIT 'A' DEELECTED CEILING DIAN		
2 1 D	UNIT 'B' BEELECTED CEILING PLAN		
2.10	UNIT 'C' PELEECTED CEILING PLAN		
	UNIT 'D' RELFECTED CEILING PLAN	PLUMBING	i
	UNIT 'A' EXTEDIOD ELEVATIONS	P0.01	PLUMBING GENERAL INFOR
4.1A		P2.0A	UNIT 'A' FIRST FLOOR FOUN
4.10		P2.0B	UNIT 'B' FIRST FLOOR FOUN
		P2.0C	UNIT 'C' FIRST FLOOR FOUN
5.01		P2.0D	UNIT 'D' FIRST FLOOR FOUR
5.02	DOOR AND FRAME TYPES	P2.1A	UNIT 'A' FIRST FLOOR PLUM
6.01	BUILDING SECTIONS	P2.1B	UNIT 'B' FIRST FLOOR PLUM
6.02	BUILDING SECTIONS	P2.1C	UNIT 'C' FIRST FLOOR PLUM
6.02	BUILDING SECTIONS	P2.1D	UNIT 'D' FIRST FLOOR PLUN
6.04	BUILDING SECTIONS	P2.03	OVERALL ROOF PLUMBING
6.05	BUILDING SECTIONS	P2.80	ENLARGED PLUMBING PLAI
6.06	BUILDING SECTIONS	P2.81	ENLARGED PLUMBING PLAI
6.07	BUILDING SECTIONS	P2.82	ENLARGED PLUMBING PLAI
6.08	BUILDING SECTIONS	P7.01	PLUMBING DETAILS
6 10	WALL SECTIONS	P7.02	PLUMBING DETAILS & DIAG
6 11	WALL SECTIONS		
6 12	WALL SECTIONS		
6 13	WALL SECTIONS		
6.14	WALL SECTIONS	MECHANIC	CAL
6.15	WALL SECTIONS	M0.01	MECHANICAL GENERAL INF
7.01	DETAILS	M2.1A	UNIT 'A' HVAC PLAN
7.02	DETAILS	M2.1B	UNIT 'B' HVAC PLAN
7.03	DETAILS	M2.1C	UNIT 'C' HVAC PLAN
7.04	DETAILS	M2.1D	UNIT 'D' HVAC PLAN
7.05	DETAILS	M2_80	ENLARGED HVAC PLANS
7.09	MILLWORK DETAILS	M3.1A	UNIT 'A' HYDRONIC PLAN
8.01	INTERIOR ELEVATIONS	M3.1B	UNIT 'B' HYDRONIC PLAN
8.02	INTERIOR ELEVATIONS	M3.1C	UNIT 'C' HYDRONIC PLAN
8.03	INTERIOR ELEVATIONS	M3.1D	UNIT 'D' HYDRONIC PLAN
8.04	INTERIOR ELEVATIONS	M3_80	ENLARGED HYDRONIC PLA
8.05	INTERIOR ELEVATIONS	M4_01	OVERALL ROOF PLAN
8.06	INTERIOR RENDERINGS	M6.01	MECHANICAL SECTIONS
8.07	INTERIOR RENDERINGS	M7.01	MECHANICAL DETAILS
8.11	INTERIOR ELEVATIONS ELA	M7.02	MECHANICAL DETAILS
9.01	ROOM SIGNAGE	M8.01	MECHANICAL CONTROL DIA
<u>9.1A</u>	UNIT 'A' FINISH PLAN	M8.02	MECHANICAL CONTROL DIA
9.1B	UNIT 'B' FINISH PLAN	M8_03	MECHANICAL CONTROL DIA
9.1C	UNIT 'C' FINISH PLAN	M9.01	MECHANICAL SCHEDULES
<u>.9.1D</u>	UNIT 'D' FINISH PLAN	M9.02	MECHANICAL SCHEDULES
.000 פנ			Δι
SE-1			רב דו דרידפור∆ו פעאופרו ו ברים
SE-2	FOOD SERVICE FOUIPMENT SCHEDULE	F2 1A	LINIT 'A' POWER & COMMUN
SE-3	FOOD SERVICE ELECTRICAL FLOOR PLAN	F2 1B	UNIT 'B' POWER & COMMUN
SE-4	FOOD SERVICE ELECTRICAL SCHEDULE	F2.1C	UNIT 'C' POWER & COMMUN
SE-5	FOOD SERVICE PLUMBING FLOOR PLAN	F2.1D	UNIT 'D' POWER & COMMUN
SE-6	FOOD SERVICE PLUMBING SCHEDULE	E3.1A	UNIT 'A' LIGHTING PLAN
SE-7	FOOD SERVICE REFRIGERATION FLOOR PLAN	F3.1B	UNIT 'B' LIGHTING PLAN
SE-8	FOOD SERVICE VENTILATION FLOOR PLAN	F3.1C	UNIT 'C' LIGHTING PLAN
		E3.1D	UNIT 'D' LIGHTING PLAN
		F4.01	POWER DISTRIBUTION ONE
		F5.01	POWER DISTRIBUTION EQU
		E5.02	POWER DISTRIBUTION EQU
		E5.10	LIGHTING SCHEDULES & CO
		E7.01	ELECTRICAL DETAILS
		FS2.01	SITE ELECTRICAL PLAN

CONSTRUCTION MANAGER

OWNER

ROCKFORD PUBLIC SCHOOLS 350 N. Main Street Rockford, MI 49341 P. 616.863.6320 www.rockfordschools.org

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BIDS & CONSTRUCTION 09.16.2021 GMB Project # 5-4922

ARCHITECT + ENGINEER

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		COLD-F		ON-LOAD BEARING	SCHEDULE			COLD	
	DEPTH	GAUGE (33 KSI)	FLANGE WIDTH	IDENTIFICATION AISI S100/S200	LOCATION / USE		Rough Opening		
STUDS & JOISTS	2 1/2"	20	1 1/4"	250S125-30	BULKHEADS & MISC. FRAMING		6'-0" MAX.	HEADER:	
	3 5/8" 6"	20 18	1 1/4" 1 5/8"	362S125-30 600S162-43	INTERIOR WALLS & BULKHEADS	_		JAMBS:	
	3 5/8" 6"	20 18	1 5/8" 1 5/8"	362S162-33 600S162-43	INTERIOR JAMBS		10'-0" MAX.	HEADER: JAMBS:	
	6"	16	1 5/8"	600S162-54	EXTERIOR WALLS		12'-0"	HEADER:	
							MAA.	JAMBS:	
	2 1/2"	20	1 1/4"	250T125-30	BULKHEADS & MISC. FRAMING		ALL HEAD	ERS IN THIS	
	3 5/8"	20	1 1/4"	362T125-30	INTERIOR WALLS & BULKHEADS		BASED ON 12' WALL HE		
FURRING (HAT)	3 5/8"	20	2 1/2"	362T250-33	DEFLECTION TRACK				
	6"	18	1 1/4"	600T125-43	INTERIOR WALLS & BULKHEADS				
	6"	16	1 1/2"	600T150-54	EXTERIOR WALLS				
	7/8"	20	N/A	087F125-33	WHERE NOTED				
	1 1/2"	20	N/A	150F125-33	WHERE NOTED				
NOTE:	ALL MEI	MBERS IN TH	IS SCHEDULE	E ARE SIZED FOR MAXIMI	JM 15' TALL WALLS				
	SEE CO	LD-FORMED	METAL HEAD	ER SCHEDULE FOR SPEC	CIFIC JAMB & HEADER REQUIREMENTS				

BARRIER FREE ADA DIMENSIONS 1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES:

- 1. DIMENSIONS GIVEN ARE TO THE FACE OF MASONRY UNITS OR TO THE FINISHED FACE OF METAL STUD PARTITION WALLS.
- 2. REFERENCE STRUCTURAL DRAWINGS FOR CONCRETE SLAB SIZES AND SLAB RELATED INFORMATION.
- 3. INTERIOR STUD WALLS ARE TO USE 3 5/8" METAL STUD FRAMING UNLESS OTHERWISE NOTED.
- 4. TURN UP VAPOR RETARDER MATERIAL AT JOINTS BETWEEN FLOOR SLAB AND FOUNDATION WALL UNLESS NOTED OTHERWISE.
- 5. SEE FOUNDATION PLANS FOR FLOOR SLAB RECESSES FOR TILE, WOOD FLOOR, ETC. (VERIFY RECESS REQUIRED BY MFR.)
- 6. EXTEND ALL INTERIOR WALL PARTITIONS (MASONRY OR STUDS) TO BOTTOM OF DECK ABOVE UNLESS NOTED OTHERWISE. 7. REFERENCE STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL FOR ITEMS NOT SHOWN. COORDINATE AS REQUIRED
- INCLUDING NECESSARY FRAMING, BLOCKING, ETC. 8. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF ANY CABINETRY, FRAMES, STRUCTURAL ITEMS, ETC.
- 9. PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS TO PROVIDE ACCESS TO CONCEALED ITEMS INCLUDING BUT NOT LIMITED TO VALVES, CONTROLS, MECH. EQUIPMENT, ETC. ACCESS PANELS MAY NOT ALWAYS BE SHOWN ON PLANS. IT IS THE SUB CONTRACTOR RESPONSIBILITY TO DETERMINE LOCATIONS. COORDINATE LOCATIONS WITH OTHER GENERAL CONTRACTOR / SITE SUPERVISOR.
- 10. COORDINATE WALLS WITH COLUMNS AND OTHER ENCASED ITEMS. COLUMNS ARE TO BE CONTAINED WITHIN WALLS. THE FRAMING CONTRACTOR SHALL INCREASE FRAMING SIZE TO ACCOMMODATE COLUMNS, DRAIN LEADERS, PIPING, ELECTRICAL PANELS, ETC. WHERE WALLS REQUIRE EXTRA WIDTH THE ENTIRE WALL SHALL BE WIDENED UNLESS APPROVED BY ARCHITECT.
- 11. ALL GUARDRAILS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE 2015 M.B.C., ANSI ICC A117.1-2009 & AMERICANS WITH DISABILITIES ACT GUIDELINES. THE MOST STRINGENT SHALL PREVAIL.
- 12. PROVIDE MINIMUM CLEARANCES AT ALL DOORS PER DETAILS. SEE G0.01 FOR REQUIREMENTS.
- 13. FOR ALL CABINETRY, SEE INTERIOR ELEVATIONS FOR LAYOUTS. FIELD VERIFY CLEAR WIDTHS PRIOR TO FABRICATION.
- 14. ALL EXTERIOR BLOCK CORNERS ARE TO BE BULLNOSE BLOCK EXCEPT CONCRETE BLOCK COLUMNS, PIERS AND WALLS TO RECEIVE TILE - UNLESS NOTED OTHERWISE.
- 15. CONTRACTOR TO MAINTAIN / REPAIR RATING OF EXISTING PARTITIONS AS AFFECTED BY DEMOLITION / NEW CONSTRUCTION. TYPICAL THROUGHOUT.
- 16. SEAL ALL PENETRATIONS IN FIRE RATED FLOORS AND WALLS WITH APPROVED FIRESTOPPING.
- 17. WHERE SPECIALTY BLOCK IS REQUIRED AT THE SAME HEIGHT ON BOTH SIDES OF A WALL USE (2) SPECIALTY BLOCKS BACK TO BACK TO MAINTAIN THE FINISHED WALL APPEARANCE BOTH SIDES OF THE WALL. COORDINATE WITH STRUCTURE FOR LINTELS CONDITIONS PER SPECIFICATIONS.
- 18. WALLS TO BE PATCHED WITH LIKE MATERIALS WHERE EXISTING WALLS HAVE BEEN COMPROMISED FROM DEMOLITION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO REMOVAL AND REINSTALLATION OF CASEWORK AND WALL MOUNTED EQUIPMENT IN ORDER TO ACHIEVE SAID PATCH. IN AREAS WHERE BLOCK OR BRICK HAVE BEEN USED, NEW MASONRY TO BE TOOTHED IN AND MATCH EXISTING. AREAS AND FINISHES IN QUESTION SHALL BE COORDINATED WITH ARCHITECT
- 19. SEE STRUCTURAL FRAMING PLANS FOR ADDITIONAL WALL REINFORCING REQUIREMENTS. MINIMUM REINFORCING (FOR ALL WALLS NOT OTHERWISE NOTED ON STRUCTURAL PLANS) :
- A. ALL BEARING WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48. B. ALL EXTERIOR WALLS SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48. C. ALL INTERIOR NON-BEARING WALLS OVER 16'-0" HIGH SHALL RECEIVE A MINIMUM REINFORCING OF R1-5-48.

- GENERAL PROJECT NOTES:
- 1. FINISH FLOOR ELEVATION = 829.75 = 100'-0"
- 2. DRAWINGS ARE NOT TO BE SCALED WHEN A DIMENSION IS IN QUESTION, VERIFY W/ ARCHITECT.
- 3. DETAILS SHOWN BUT NOT CALLED OUT STILL APPLY, UNLESS OTHERWISE NOTED. 4. GENERAL TRADES CONTRACTOR SHALL COORDINATE ALL TRADES INCLUDING OWNER FURNISHED EQUIPMENT,
- INCLUDING DIMENSIONS OF SUCH AS THEY RELATE TO HIS/HER OWN WORK.
- 5. ALL EXPOSED SURFACES SHALL BE FINISHED. CONTACT ARCHITECT FOR DIRECTION IF FINISH IS NOT LISTED.
- 6. NO UTILITIES INCLUDING BUT NOT LIMITED TO, PIPING AND CONDUIT SHALL BE EXPOSED UNLESS APPROVED BY ARCHITECT.
- 7. GYPSUM BOARD WALLS AND BULKHEADS SHALL HAVE CONTROL JOINTS AT A 20'-0" O.C. MAXIMUM AND AS SHOWN ON
- 8. AT ALL AREAS OF WORK WHERE EXISTING MASONRY BLOCK AND BRICK WALLS ARE BEING MODIFIED OR CONNECTED TO NEW MASONRY AND/OR BRICK MUST BE TOOTHED, UNLESS NOTED OTHERWISE ON DRAWINGS. 9. CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES PRIOR TO EXCAVATION, TRENCHING, ETC. AND SHALL REPAIR
- OR REPLACE ANY DAMAGED UTILITIES AS A RESULT OF CONSTRUCTION. 10. ALL TRADES ARE TO COORDINATE ANY DEMOLITION, CAPPING OR ABANDONMENT OF EXISTING MECHANICAL,
- ELECTRICAL, PLUMBING OR ARCHITECTURAL ITEMS. 11. ANY DEMOLITION OR CONSTRUCTION WHICH DAMAGES ADJACENT SURFACES IS TO BE REPAIRED TO MATCH THE
- EXISTING SURFACE DAMAGED (MATERIALS & FINISHES) AND ALL REPAIR WORK IS TO BE COORDINATED WITH NEW CONSTRUCTION.
- 12. CONTRACTOR IS TO PROVIDE TEMPORARY SHORING AND BRACING FOR EXISTING ROOF/FLOOR STRUCTURE AS REQUIRED UNTIL PERMANENT WALLS & LINTELS ARE INSTALLED.
- 13. SITE SECURITY AND SAFETY ARE THE CONTRACTORS RESPONSIBILITY. SITE SHALL BE SECURED (FENCED IF REQUIRED) BY CONTRACTOR.
- 14. ALL ITEMS TO BE SAVED AND/OR RELOCATED ARE TO BE STORED IN A PROPER MANNER SO NO DAMAGE WILL OCCUR
- TO THESE ITEMS DURING THEIR STORAGE PERIOD. 15. ALL CONSTRUCTION AND MATERIALS ARE TO BE INSTALLED BY THE MANUFACTURERS SPECIFICATIONS AND/OR RECOMMENDATIONS UNLESS DIRECTED OTHERWISE BY ARCHITECT.
- 16. SEE SPECIFICATIONS FOR STEEL LINTEL SIZES FOR WALL OPENINGS NOT DETAILED (e.g. HVAC DUCTS, ETC.).
- 17. REFER TO GENERAL INFORMATION SHEET G0.01 FOR TYPICAL BARRIER FREE AND ACCESSIBLE DIMENSIONS.
- 18. SEE FLOOR PLANS FOR WALL REINFORCING REQUIRED. (SEE WALL REINFORCING SCHEDULE) 19. FURNISH & INSTALL 2x12 HORIZONTAL WOOD BLOCKING BETWEEN STUDS WHERE REQUIRED FOR MOUNTING OF
- UPPER CABINETS. GRAB BARS OR OTHER EQUIPMENT AS REQUIRED FOR PROPER SUPPORT.
- 20. COORDINATE ALL CONSTRUCTION PRACTICE TOLERANCES WITH OTHER TRADES WHOSE WORK MAY BE AFFECTED. DIRECTLY OR INDIRECTLY. WITH YOUR SPECIFIC TRADE. IN ALL CASES, THE MOST STRINGENT TOLERANCE SHALL
- APPLY AND SHALL BE COORDINATED THRU THE GENERAL CONTRACTOR, JOB SUPERINTENDENT AND/OR
- CONSTRUCTION MANAGER AND FIELD OBSERVATION PERSON AS APPLICABLE.
- 21. REFER TO FLOOR PLANS, SCHEDULES AND EXTERIOR ELEVATIONS FOR WINDOW FRAME TYPES. 22. REFER TO FLOOR PLANS, SCHEDULES AND INTERIOR ELEVATIONS FOR BORROWED LITE FRAME TYPES.
- 23. AT MASONRY CAVITY WALL LOCATION, PROVIDE APPROPRIATE SEPARATION IN REGARDS TO INTERIOR AIR EXFILTRATION AND EXTERIOR AIR AND WATER INFILTRATION THRU WALL. PROVIDE NECESSARY AIR AND WATER

BARRIERS REQUIRED, INCLUDING DAMS, TO PREVENT WALL LEAKAGE.

CODE NOTES:

- 1. FIRE DEPARTMENT ACCESS AND WATER SUPPLY SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF VERTICAL CONSTRUCTION.
- 2. FIRE STOP ALL INTERCONNECTIONS BETWEEN VERTICAL AND HORIZONTAL SPACES AND CONCEALED WALL SPACES
- AT THE CEILING. FLOOR. AND ROOF LEVELS. 3. INSTALL SOLID BLOCK BEHIND ALL RECESSED WALL UNITS AS REQUIRED TO MAINTAIN FIRE RATINGS.
- 4. ALL FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS, AND SMOKE PARTITIONS SHALL BE IDENTIFIED WITH STENCILING AT INTERVALS NOT TO EXCEED 30'. REFER TO CODE PLAN FOR WALLS REQUIRED TO
- BE PROTECTED. 5. ALL PENETRATIONS AT SMOKE AND FIRE RATED WALLS, FLOORS, CEILINGS, ETC. SHALL BE PROTECTED, SEALED OR DAMPERED USING ONLY U.L. AND / OR I.C.B.O. APPROVED METHODS, MATERIALS AND INSTALLATION.
- 6. SEE REFLECTED CEILING PLANS AND LIGHTING PLANS FOR EXIT SIGNAGE LOCATIONS.
- 7. ALL EXITS TO BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE.
- 8. PANIC HARDWARE TO BE PROVIDED AT EACH EXIT DOOR FROM ROOMS WITH AN OCCUPANT LOAD 50 OR MORE INCLUDING MAIN CORRIDOR EXIT DOORS.
- 9. ALL ELEVATORS SHALL COMPLY WITH A.D.A., A.D.A.G.G. AND A.N.S.I. REQUIREMENTS.
- FOR REQUIREMENTS. 11. FIRE SPRINKLERS AND FIRE ALARM SYSTEM SHALL BE PROVIDED PER NFPA NO. 13, 70 & 72. SUBMIT ALL REQUIRED DRAWING AND INFORMATION TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY RELATED WORK. OBTAIN APPROVAL OF COMPLETED SYSTEMS PRIOR TO FINAL ACCEPTANCE.

10. SPECIAL STRUCTURAL INSPECTIONS ARE REQUIRED. REVIEW GENERAL STRUCTURAL NOTES AND SPECIFICATIONS

ACCESSIBILITY NOTES:

- 1. PUBLIC ENTRANCES: AT LEAST 60% SHALL BE ACCESSIBLE.
- 2. ACCESSIBLE ENTRANCES TO THE BUILDING SHALL BE IDENTIFIED BY THE INTERNATIONAL SIGN OF ACCESSIBILITY. 3. AN ACCESSIBLE ROUTE OF NOT LESS THAN 3 FT. WIDE MUST BE PROVIDED TO ALL PORTIONS OF THE BUILDING AND
- BETWEEN THE BUILDING AND THE PUBLIC WAY. ACCESSIBLE ROUTES SHALL HAVE A MAXIMUM SLOPE OF 1:20 AND A MAXIMUM CROSS SLOPE OF 1:50.
- 4. ACCESSIBLE ROUTE SHALL BE WITHOUT STEPS OR CHANGES IN LEVEL GREATER THAN 1/2" WITHOUT AN APPROVED
- 5. ACCESSIBLE RAMPS THAT ARE REQUIRED BY ANSI A 117.1 SHALL NOT HAVE A SLOPE THAT EXCEEDS 1FT. IN 12 FEET. RAMPS AND GROUND SURFACES SHALL BE OF A SLIP RESISTANT SURFACE. 6. THRESHOLDS MUST BE 1/2" OR LESS IN HEIGHT.
- 7. ALL ACCESSIBLE PARKING SPACES MUST HAVE A SIGN THAT INCLUDES THE INTERNATIONAL SIGN OF ACCESSIBILITY. PARKING SPACE WILL BE OUTLINED IN A CONTRASTING COLOR WITH THE INTERNATIONAL SIGN OF ACCESSIBILITY PAINTED IN THE CENTER.
- 8. ALL ALARMS TO MEET ACCESSIBILITY REQUIREMENTS.

STRUCTURAL NOTES:

- 1. CONSTRUCTION AND/OR CONTROL JOINTS IN CONCRETE SHALL BE ON A 12-0" SQUARE GRID (MAX.) UNLESS OTHERWISE NOTED. ALL CONSTRUCTION JOINTS SHALL BE DOWELED W/ 1/2" SMOOTH DOWELS AT 24" O.C. SEE DETAILS.
- 2. PROVIDE CONTINUOUS U-BLOCK BOND BEAMS AT THE LOCATIONS INDICATED ON WALL SECTIONS OR DETAILS. FILL U-BLOCKS WITH CONCRETE AND REINFORCE WITH (2) #5 BARS CONTINUOUS UNLESS NOTED OTHERWISE ON DRAWINGS.

_	ABBR	EVI	ATIONS	
	A.D.A.	=	AMERICANS WITH DISABILITY ACT	MFR.
	A.F.F.	=	ABOVE FINISHED FLOOR	MAX.
	ALT.	=	ALTERNATE	M.B.
	ALUM.	=	ALUMINUM	M.B.C.
	BD.	=	BOARD	MECH.
	B.F.	=	BARRIER FREE	MIN.
	BATT.	=	BATTEN INSULATION	MISC.
	В.О.	=	BOTTOM OF	M.J.
	BRG.	=	BEARING	M.O.
	C.J.	=	CONTROL JOINT	MTL.
	CLG.	=	CEILING	N.I.C.
	CONC.	=	CONCRETE	NOM.
	CONT.	=	CONTINUOUS	0.C.
	CONF.	=	CONFERENCE	OPP.
	CORR.	=	CORRIDOR	P.LAM
	DIA.	=	DIAMETER	P.T.
	DIM.	=	DIMENSION	REQ.
	DW.	=	DISHWASHER	REINF.
	D.F.	=	DRINKING FOUNTAIN	R.D.
	DN.	=	DOWN	SIM.
	DS.	=	DOWNSPOUT	SPEC.
	EQ.	=	EQUAL	STD.
	EL.	=	ELEVATION	STOR.
	EX.	=	EXISTING	S.S.
	EXP.	=	EXPANSION	Τ.
	F.D.	=	FLOOR DRAIN	Т.В.
	F.E.	=	FIRE EXTINGUISHER	T&G
	F.E.C.	=	FIRE EXTINGUISHER CABINET	T.O.F.
	F.E.R.C.	=	FIRE EXT. RECESSED CABINET	T.O.M.
	F.E.S.C.	=	FIRE EXT. SEMI-RECESSED CABINET	T.O.W.
	FIN.	=	FINISHED	TYP.
	FLR.	=	FLOOR	U.N.O.
	GA.	=	GAUGE	V.I.F.
	GYP.	=	GYPSUM BOARD	VERT.
	H.D.	=	HAND DRYER	VEST.
	HORIZ.	=	HORIZONTAL	W/
	H.S.S.	=	HOLLOW STRUCT. SECTION	W.W.F.
	ISO.	=	ISOCYANURATE	

INSUL. = INSULATION

MANUFACTURER
MAXIMUM
MARKER BOARD
MICHIGAN BUILDING CODE
MECHANICAL
MINIMUM
MISCELLANEOUS
MASONRY JOINT
MASONRY OPENING
METAL
NOT IN CONTRACT
NOMINAL
ON CENTER
OPPOSITE
PLASTIC LAMINATE
PRESSURE TREATED
REQUIRED
REINFORCING
ROOF DRAIN
SIMILAR TO
SPECIFICATION
STANDARD
STORAGE
STAINLESS STEEL
TOILET
TACK BOARD
TONGUE AND GROOVE
TOP OF FOOTING
TOP OF MASONRY
TOP OF WALL
TYPICAL
UNLESS NOTED OTHERWISE
VERIFY IN FIELD
VERTICAL
VESTIBULE
WITH
WELDED WIRE FABRIC

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ISSUANCES

DRAWN RCD/EM REVIEWED AS

PROJECT NO.

5-4922

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GENERAL NOTES DIMENSIONS AND LEGENDS

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