ADDENDUM 1

ADDENDUM DATE: March 3, 2023

- PROJECT: Trexler Middle School Renovation & Site Improvements 112 E. Foy Street Richlands, NC 28574
- OWNER: Onslow County Schools 200 Broadhurst Road Jacksonville, NC 28540
- ARCHITECT: Smith Sinnett Architecture, P.A. 4600 Lake Boone Trail, Suite 205 Raleigh, North Carolina 27607
- BIDS DUE: **Tuesday, <u>March 21st, 2023 at 2:00 p.m.</u> Maintenance Meeting Room #4 Onslow County Schools Offices 200 Broadhurst Road Jacksonville, NC 28540



Please note, Project Addendums and Bidders List are available at www.smithsinnett.com under the 'Documents' icon on the navigation bar.

Reminder: A mandatory Pre-Bid meeting was held at the project site on February 28, 2023 at 1:00pm

This Addendum shall be included in the contract for the above referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

<u>General</u>

1. Existing drawings of the existing building and associate site drawings are included as 'Exhibit Drawings'. The validity and accuracy of these original drawings cannot be verified at this time. These are provided for your reference only and are not part of the contract documents.

2. CLARIFICATION: The anticipated substantial completion date of <u>May 10th, 2024</u> as noted in the Supplementary General Conditions is correct. The number of days noted in the Supplementary General Conditions and Pre-Bid Agenda Notes listed as <u>265 days</u> is incorrect. This has been corrected to indicate <u>380 days</u> from anticipated Notice to Proceed to Substantial Completion date. Please disregard any reference to 265 days in relation to Contract Time.

Drawings

3. REPLACE: <u>Sheet G0-01 Cover Sheet</u> Sheet revised to illustrate new numbering/grouping to the bid alternates.

4. REPLACE: Sheet G0-02 Building Code Summary

5. REPLACE: Sheet G0-03 Wall Type Legend

Sheet revised to provide clarification regarding the requirement for delegated design for load-bearing metal framing.

6. REPLACE: Sheet A0-01 Demolition Plan

Demolition keyed note #5 revised to clarify scope of work.

7. REPLACE: Sheet A1-01 Renovation Plan

Sheet revised to clarify scope of work in Storage #110. No new windows will be installed, new shelving layout has been revised, and the new data rack is shown to coordinate the location with the shelving.

8. REPLACE: <u>Sheet A4-01 Enlarged Restroom Plans and Elevations</u> Sheet revised to clarify finishes and wall type designations.

REPLACE: <u>Sheet A4-02 Enlarged Teacher's Restroom Plans and Elevations</u> Sheet revised to clarify finishes and provide detail on proposed metal cove transition strip at tile wall base in Restroom #101B.

10. REPLACE: <u>Sheet A4-03 Casework Elevations and Details</u> Sheet revised to illustrate new shelving layout.

11. REPLACE: Sheet A7-01 Finish Plan

Sheet revised to clarify finishes and provide detail on proposed metal edge trim and cove transition strip at tile wall base.

12. REPLACE: Sheet A9-01 Floor Plans (Alternate 5)

Sheet revised to clarify scope of work in Storage #110. No new windows will be installed, and existing windows will be infilled as shown. Alternate titles revised to coordinate with new numbering/grouping.

13. REPLACE: Sheet A9-02 Reflected Ceiling Plans (Alternate 5)

Sheet revised to clarify scope of work in Storage #110. No new windows will be installed, and existing windows will be infilled as shown.

14. REPLACE: Sheet A9-03 Exterior Building Elevations (Alternate 2-5)

West Elevation view revised to clarify scope of work in Storage #110. No new windows will be installed, and existing windows will be infilled as shown.

15. REPLACE: Sheet A9-05 Wall Sections (Alternate 2-5)

<u>Detail 4/A9-05</u> revised to clarify scope of work in Storage #110. No new windows will be installed, and existing windows will be infilled as shown.

16. REPLACE: Sheet A9-12 Window and Frame Elevations (Alternate 2-5)

Sheet revised to clarify scope of work in Storage #110. No new windows will be installed, and existing windows will be infilled as shown.

Specifications

- 17. ADD: Section 00 01 05 NOTICE TO BIDDERS
- 18. REPLACE: Section 00 01 10 TABLE OF CONTENTS
- 19. REPLACE: Section 00 42 00 PROPOSAL FORM
- 20. REPLACE: <u>Section 00 73 00 SUPPLEMENTARY GENERAL CONDITIONS</u> Section revised to provide clarification on days from Notice to Proceed to Substantial Completion.

21. REPLACE: Section 01 21 00 ALLOWANCES

- a. REVISE 3.3.J Allowance No. A-10: Access Control and Security System
 - i. Revise allowance title "Access Control and Security System" to be replaced by "Access Control, Intercom, Voice/Data, Cameras, and Security System"
 - ii. Revise "Lump Sum: \$50,000.00" to be replaced by "Lump Sum: \$55,000.00"

22. REPLACE: Section 01 23 00 ALTERNATES

Section revised to provide new numbering/grouping to the bid alternates.

23. REPLACE: Section 05 40 00 COLD-FORMED METAL FRAMING

Section revised to provide clarification regarding the requirement for delegated design for load-bearing metal framing.

24. REPLACE: <u>Section 09 29 00 GYPSUM BOARD</u> Section revised to provide clarification on locations for abuse-resistant and mold-resistant gypsum board.

25. REPLACE: <u>Section 09 30 00 TILING</u> Section revised to provide additional information on metal transition strips.

26. REPLACE: Section 10 73 26 PROTECTIVE WALKWAY COVERS Section revised to provide clarification on the requirement for delegated design related to

Section revised to provide clarification on the requirement for delegated design related to canopy foundations.

Electrical

27. See attached Addendum #1 by Progressive Design Collaborative, Ltd. (18 Pages)

Attachments

PRE-BID NOTES SIGN-IN SHEET FROM PRE-BID MEETING Sheet G0-01 COVER SHEET Sheet G0-02 BUILDING CODE SUMMARY Sheet G0-03 WALL TYPE LEGEND Sheet A0-01 DEMOLITION PLAN Sheet A1-01 RENOVATION PLAN

Sheet A4-01 ENLARGED RESTROOM PLANS AND ELEVATIONS Sheet A4-02 ENLARGED TEACHER'S RESTROOM PLANS AND ELEVATIONS Sheet A4-03 CASEWORK ELEVATIONS AND DETAILS Sheet A7-01 FINISH PLAN Sheet A9-01 FLOOR PLANS (ALTERNATE 5) Sheet A9-02 REFLECTED CEILING PLANS (ALTERNATE 5) Sheet A9-03 EXTERIOR BUILDING ELEVATIONS (ALTERNATE 2-5) Sheet A9-05 WALL SECTIONS (ALTERNATE 2-5) Sheet A9-12 WINDOW AND FRAME ELEVATIONS (ALTERNATE 2-5) Section 00 01 05 NOTICE TO BIDDERS (2 Pages) Section 00 01 10 TABLE OF CONTENTS (4 Pages) Section 00 42 00 PROPOSAL FORMS (6 Pages) Section 00 73 00 SUPPLEMENTARY GENERAL CONDITIONS (24 Pages) Section 01 21 00 ALLOWANCES (6 Pages) Section 01 23 00 ALTERNATES (4 Pages) Section 05 40 00 COLD-FORMED METAL FRAMING (6 Pages) Section 09 29 00 GYPSUM BOARD (10 Pages) Section 09 30 00 TILING (10 Pages) Section 10 73 26 PROTECTIVE WALKWAY COVERS (4 Pages) ADDENDUM #1 – ELECTRICAL, dated March 2nd, 2023 (18 Pages) EXHIBIT DRAWINGS

End of Addendum 1



Owner:Onslow County Schools
200 Broadhurst Road
Jacksonville, NC 28540MEETING NOTES IN REDLocation:Trexler Middle School
112 E. Foy Street
Richlands, NC 28574MEETING NOTES IN REDArchitect:Smith Sinnett Architecture, P.A.
4600 Lake Boone Trail, Suite 205
Raleigh, NC 27607
Phone: (919) 781-8582

Ed Gordon Charlie Tennant

Fax: (919) 781-3979

On behalf of the Owner and Smith Sinnett Architecture, we would like to thank you for your interest and attendance at this Mandatory Pre-Bid Conference.

I Bid:

Bids will be received until Tuesday, March 21st, 2023 by 2:00 p.m., for a Single Prime Contract at:

Onslow County Schools Offices Maintenance Meeting Room #4 Onslow County Schools 200 Broadhurst Road Jacksonville, NC 28540

All bids will be held until 2:00 p.m. on March 21st, 2023 at which time the bids will then be opened and read aloud.

II Bid Day Documents: Refer to Specifications

- 1. Proposal Form Pages 1 through 6
- 2. Bid Bond (5%) or Certified Check (5%)
- 3. Minority Business Guidelines (10% Goal)
- 4. Bid envelope should be sealed with the following information listed on the outside of the envelope.
 - a. Bidder's Name and Address
 - b. North Carolina Contractor's License Number
 - c. Name of Project
- 5. The successful bidder must provide an executed Performance Bond and Payment Bond for 100% of the Contract by a company licensed in North Carolina **within 30 days of receipt**



of an Intent to Award Letter. Certificates of Insurance meeting the requirements indicated in the Specifications will also be required.

- 6. Any bids that have qualifying notes or comments will be rejected.
- 7. For mailed bids, it's the contractor's responsibility to ensure the bid arrives prior to the bid opening time. Place the bid in a double envelope with "Sealed Bid Do Not Open" written on the envelope.

NOTE: Contractor should make sure to look through and read all documents closely and make sure that all documents are properly filled out to avoid having the bid thrown out for incomplete documentation.

III Alternates / Allowances:

ALTERNATES

Alternate No. 1: Owner Preferred Manufacturer(s):

State the amount to be added to the Base Bid for providing all labor and materials indicated and required to accomplish Work involved in providing the Owner Preferred Manufacturers Listed Below for the indicated work. Base Bid to include one of the following or comparable product of any of the manufacturers listed in the individual section:

- 1. Mechanical
- 2. Electrical
- 3. Plumbing
- 4. Thermostat
- 5. Door Hardware

Alternate No. 2: ESSER Scope of Work:

State the amount to be added to the Base Bid for providing all labor and materials indicated and required for all work as described below and per the plans and specifications and as shown and noted in the Contract Documents.

2-1. Mechanical Upgrades

Base Bid: No upgrades to the existing mechanical system.

Alternate: Mechanical upgrades, including all removal and replacement, as indicated in the Construction Documents.

2-2. Electrical Upgrades

Base Bid: No upgrades to the existing electrical system. All new electrical equipment to be connected to existing system in place.

Alternate: Electrical upgrades, including all removal and replacement, as indicated in the Construction Documents.

2-3. Ceilings and Lighting Upgrades



Base Bid: Existing ceilings, lighting, and controls to remain in place, except where indicated in the Construction Documents in the Restrooms, Janitor Closet, and Teacher's Breakroom. **Alternate:** Remove and replace all remaining existing ceilings, lighting, and controls as indicated in the Construction Documents.

2-4. Door Replacement and Transom Infill

Base Bid: Existing doors and transoms to remain in place, except where indicated in the Construction Documents to accommodate the reconfiguration for the new Restrooms, Janitor Closet, and Teacher's Breakroom.

Alternate: Removal and replacement of all remaining interior and exterior existing doors and infill of all interior transom windows as indicated in the Construction Documents.

2-5. Window Replacement

Base Bid: All existing exterior windows to remain in place.

Alternate: Removal and replacement of all existing exterior windows as indicated in the Construction Documents.

Alternate No. 3: Bus Parking:

State the amount to be added to the Base Bid for providing all labor and materials indicated and required to remove and replace all storefront glazing in the Commons Areas per the plans and specifications and as shown and noted in the Contract Documents.

3-1. Parking Lot, Drive, and Associated Sidewalks

Base Bid: No work to be performed.

Alternate: All work associated with the bus parking lot, drive, and associated sidewalks as indicated in the Construction Documents.

3-2. Canopy and Lighting

Base Bid: No work to be performed. **Alternate:** All work associated with the installation of the canopy and lighting as indicated in the Construction Documents.

Alternate No. 4: Parent/Student Queue:

State the amount to be added to the Base Bid for providing all labor and materials indicated and required to repave the existing northeast parking lot to install the new parent/student queue and all associated sidewalks and site work as per the plans and specifications and as shown and noted in the Contract Documents.

ALLOWANCES

(Refer to Division 01 Section 01 21 00 - Allowances for amounts to be included in bid)

Allowance No. UP/A-1: Unsuitable soils removal and disposal off-site.

Quantity: 1000-cy.

• Unit of measurement: cubic yard measured before removal.



Allowance No. UP/A-2: Rock removal and disposal off-site.

Quantity: 100-cy.

• Unit of measurement: cubic yard measured before removal.

<u>Allowance No. UP/A-3</u>: Replacement of authorized excavation of unsuitable soils or rock with <u>off-site</u> imported fill material.

Quantity: 500-cy.

• Unit of measurement: cubic yard measured before removal.

<u>Allowance No. UP/A-4</u>: Replacement of authorized excavation of unsuitable soils or rock with Aggregate Base Course (ABC) material.

Quantity: 500-cy.

• Unit of measurement: cubic yard measured before removal.

Allowance No. UP/A-5: Geo-Grid in place.

Quantity: 100-sy.

• Unit of measurement: square yard measured before removal.

Allowance No. UP/A-6: Underground Sanitary Line.

Quantity: 250-lf.

• Unit of measurement: linear feet measured before installation.

NOTE: Base Bid shows the sanitary line coming out the front of the building toward existing school and tying into an existing line. It is currently unknown how deep the existing sanitary line is and if it is not deep enough (determined by engineer), then the line will need to be rerouted out same side of the building and turned north to another existing sanitary sewer line in the direction of the proposed modular building.

Allowance No. UP/A-7: Floor Leveling Compound.

Quantity: 5000-sf.

• Unit of measurement: square feet measured before installation.

Allowance No. UP/A-8: Topical Moisture Mitigation System.

Quantity: 5000-sf.

• Unit of measurement: square feet measured before installation.

Allowance No. UP/A-9: Abrasive Blast Floor Preparation.

Quantity: 5000-sf.

• Unit of measurement: square feet measured before process.

Allowance No. A-10: Access Control and Security System.

Lump Sum: \$50,000.00

Allowance No. A-11: CONTINGENCY

Contingency allowance shall be provided as follows and the price shall be adjusted based on the actual cost of subcontracts, materials, and labor, excluding overhead and profit. Allowances for



overhead and profit shall be provided within the contract price. If there is unused allowance at the conclusion of the project, the allowance plus 5% will be deducted from the contract. **Lump Sum: \$200,000**

NOTE: Contractor should be sure to include Overhead & Profit for the Contingency Allowance as part of the Base Bid. If there is any unused allowance remaining at the end of the project, the remaining allowance amount <u>plus 5%</u> will be returned to the Owner by Change Order.

IV Open Meeting for Discussion of Preferred Alternates:

As per North Carolina General Statutes 133-3, preferred manufacturer alternates may be incorporated into the public bidding process when the following conditions are met:

- 1. The product will provide cost savings, maintain or improve the functioning of any process or system affected by the preferred item or items, or both.
- 2. A justification identifying these criteria is made available in writing to the public.

Alternate No. 1-1; Owner Preferred Manufacturer(s) – Mechanical: State the amount to be added.

- HVAC Wall Unit: Manufacturer Bard as stated in the Drawings and Specifications.
- Note that equal products are allowed ONLY in the Base Bid.

These items will maintain the present mechanical system by integrating with the existing mechanical components presently incorporated in the Owner's facilities and maintenance regimen.

Alternate No. 1-2; Owner Preferred Manufacturer(s) - Electrical: State the amount to be added.

- Electrical Switches: Manufacturer Square D as stated in the Drawings and Specifications.
 - Note that equal products are allowed ONLY in the Base Bid.

These items will maintain the present electrical system by integrating with the existing electrical components presently incorporated in the Owner's facilities and maintenance regimen.

Alternate No. 1-3; Owner Preferred Manufacturer(s) - Plumbing: State the amount to be added.

- Water Cooler with Bottle Filler: Manufacturer Elkay as stated in the Drawings and Specifications.
- Note that equal products are allowed ONLY in the Base Bid.

These items will maintain the present plumbing system by integrating with the plumbing components presently incorporated in the Owner's facilities and maintenance regimen.



Alternate No. 1-4; Owner Preferred Manufacturer(s) - Thermostat: State the amount to be added.

- Thermostat: Manufacturer Venstar Explorer Smart Stat as stated in the Drawings and Specifications.
- Note that equal products are allowed ONLY in the Base Bid.

These items will maintain the present mechanical system by integrating with the existing mechanical components presently incorporated in the Owner's facilities and maintenance regimen.

Alternate No. 1-5; Owner Preferred Manufacturer(s) – Door Hardware: State the amount to be added.

- Door Locks: Manufacturer Schlage Locks as stated in the Drawings and Specifications.
- Exit Devices: Manufacturer Von Duprin as stated in the Drawings and Specifications.
- Closers: Manufacturer LCN as stated in the Drawings and Specifications.
- Note that equal products are allowed ONLY in the Base Bid.

These items will maintain the door and security hardware systems presently incorporated in the Owner's facilities and maintenance regimen.

V Schedule:

The Contract time shall commence on a date to be specified in a written Notice to Proceed from the Architect. Substantial Completion shall occur on or before the dates listed below:

- Notice of Intent to Award (Anticipated) April 14th, 2023
- Notice to Proceed (anticipated) April 25th, 2023
- Substantial Completion May 10th, 2024 (265 days)
- Final Completion June 10th, 2024 (30 days)

NOTES:

- a. <u>The ESSER Alternate portion of the contract must be complete by the Substantial</u> <u>& Final Completion Dates</u>.
- b. If the Notice of Intent to Award & Notice to Proceed dates are later than anticipated, then the Substantial and Complete dates will be extended out to match the actual dates.

VI Liquidated Damages:

See Supplementary General Conditions: **\$250.00 each calendar day** in excess of the stated completion time.

VII Examination of Bid Documents:

All Bidders are expected to fully examine and familiarize themselves with the Drawings, Specifications and Existing Conditions. All Bidders should read the scopes of the bid package. Any questions or clarifications should be directed to the Architect. No allowances will be made after the bids are received for any oversight due to failure to examine the documents. If you are an E-Procurement Vendor, pay special attention to the Special Conditions section of the specifications.



VIII Substitutions:

Substitutions or approvals of "Equals" will only be accepted if approved by the Architect in writing at least 10 days prior to the receipt of bids: March 10th, 2023.

IX Technical Questions:

Technical questions should be submitted to Architect as soon as possible by email.

Charlie Tennant ctennant@smithsinnett.com

NOTE: All questions for clarification and additional information should be emailed to the Architect as soon as possible. No questions were answered during the meeting. All questions that were asked during the meeting need to be emailed to Smith Sinnett.

X Construction Documents:

This is a formal bid and construction documents and specifications are available in PDF format upon ShareFile link request. All addenda as well as the plan holders list will also be posted to the Smith Sinnett Architecture website under the "Documents" tab. If you have any issues or cannot download any of the documents, please let us know and we will work to make sure you can get them.

XI Addenda:

Addenda will be emailed to everyone on the Architect's plan holders list.

XII Architect's brief description of the project:

This bid package includes the interior renovation of a 9,500 square foot building on the campus of Trexler Middle School. Renovation will include but is not limited to reconfiguration of an existing classroom to accommodate new restrooms and a teacher's breakroom, utility infrastructure upgrades (mechanical, electrical, and plumbing), accessibility upgrades, and updated finishes. Site work includes a new bus parking lot, resurfaced parent/student queue, and associated canopies/sidewalks. Additional included is all other work as shown, indicated or reasonably implied on the drawings and/or specifications for a complete, first class job.

Note: After the initial meeting, contractors were allowed to walk the building and discuss any issues with the group.

SIGN IN SHEET Trexler Middle School Renovation & Site Improvements Project #: 2022017 Date: 2/28/2023

smithsinnett

Project #: 2022017	Date: 2/28/2023		
NAME	ORGANIZATION	PHONE	EMAIL
BISHOP WILLIAM	WARELS CONTEMPOR	919-219-765	bishopu Circlerscontrating, net
George Ward	IMEC GROUP LLC	252.670.2681	ghward@inecgrouplescon
JOHN BERRY	BERRYBUIDO	1252378-	VBORRY & BORRBY.Com
Scot Thimpson	From Constrution	910-320-8528	Sthompsine Tesm Porstrutium neran
DANIEL GRAY	OCS	910581-040	Dianal. GMOBONS WWK 12, NC, US
Dusty Olive	as a	10-340-50	P) Duby Jule Onstan (12
Dennis Autry	OCS	910-358-50	27 Dennis Autry Conslan
CHRIST IN EIPRORY	PR 55A	811-5253	.KK.MC, US
Ally Schmidheiser	DCS	9103894593	Ally schmidheise Constantizacus
AMBER CURISTENSEN	SSA	919-912-6617	
Chris Whyley	Quadrant Const	910-937-0003	durbluly QgCenc. Com
Aller, Lambert	Danielg & Daniels	919-777-4525	estimating Edondad com
- WSTIN FIFE	QUADRANT	110.312.309	Chriswhaley Cacent. com
Brandon Horne	TE Davis	910-393-3117	bhorne @tedavisconstruction.com
Ed Goodon	SA	919 810-5243	egordor Ogwille cinett com

ONSLOW COUNTY SCHOOLS

TREXLER MIDDLE SCHOOL RENOVATION & SITE IMPROVEMENTS 112 E FOY STREET RICHLANDS, NC 28574



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	PLUMBING	<pre></pre>		1-1: HVAC WALL UNIT	- BARE)			3	
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	P2-01 P4-01	DOMESTIC WATER PLAN	-	1-5: DOOR HARDWAR	E:				$\langle \rangle$	
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(BUS PARKING)	M1-01	DUCTWORK PLAN		2-4: DOOR REPLACEN	IENT &	TRANSOM INFILL			}	
PARKING)	M2-01 M5-01	PIPING PLAN DETAILS	ALT 2						$\left\{ \right\}$	
AN (BUS PARKING)	M5-02	DETAILS	<u>ALI 3</u>	<u>3-1: PARKING LOT. DF</u>	RIVE. &	ASSOCIATED SIDEWAL	KS		$\left\{ \right.$	
AN (BUS PARKING)	M5-03 M6-01	UL DETAILS VPHP CONTROLS	-	3-2: CANOPY & LIGHT	ING		_		$\left\{ \right.$	
KING) (BUS PARKING)	M6-02	VRF CONTROLS	ALT 4	: PARENT/STUDENT QL	IEUE				ζ	
L)	M7-01	MECHANICAL SCHEDULES	PARK	ING LOT, DRIVE, & ASS		D SIDEWALKS			3	
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	E4-01 E4-02	FIRE ALARM/SECURITY PLAN - BASE BID FIRE ALARM/SECURITY PLAN - ALTERNATE	AFL AHU	ATHLETIC FLOORING AIR HANDLING UNIT	EXP EWC	EXPOSED CEILING ELECTRIC WATER COOLER	OD OFOI	OUTSIDE DIAMETER OWNER FURNISHED,	TCA	TILE COUNCIL OF AMERICA
	E5-01	BIDS PANEL SCHEDULES & RISER DIAGRAM	ALB ALT	ALUMINUM BASE ALUMINUM TILE	FC FD	FIRECODE FLOOR DRAIN	OFCI	OWNER INSTALLED OWNER FURNISHED,	TELE TEMP	TELEPHONE TEMPERED
	E5-02	PANEL SCHEDULES & DETAILS	ALUM ANOD	ALUMINUM ANODIZED	FEB	FIRE EXSTINGUISHER BRACKET	OPP	CONTRACTOR INSTALLED	TEXD TFT	TEXTURED TERRAZZO ELOOR
	E6-01 E6-02	DETAILS DEATILS	ANSI	AMERICAN NATIONAL	FEC	FIRE EXSTINGUISHER	OZ	OUNCE	TOC	
	E6-03	DETAILS	ATTEN		FF	FINISH FLOOR	P-LAM	PLASTIC LAMINATE	TOS	TOP OF STEEL
	E6-04 E6-05	ELECTRICAL SITE PLAN - ALTERNATE BIDS			FLU	FLOURESCENT		WOOD DOORS	TVB	TELEVISION
		3-1 AND 3-2	BBT	BLOCK FILL	FOF	FACE OF FRAME FACE OF MASONRY	PC PERF	POLISHED CONCRETE PERFORATED	TYP	TYPICAL
			BFC	BROOMED FINISHED CONCRETE	FOW FTG	FACE OF WALL FOOTING	PFT PIV	PORCELAIN FLOOR TILE POST INDICATOR VALVE	UL	UNDERWRITERS
			BL BLDG	BLINDS BUILDING	GC GCT	GENERAL CONTRACTOR GRANITE COUNTERTOP	PL PLYWD	PLATE PLYWOOD	U/L	LABORATORY UTILITY/LIGHTS
			BLKG BOT	BLOCKING BOTTOM	GA GALV	GAGE GALVANIZED	PNT PP	PAINT POWER POLE	UON	UNLESS OTHERWISE NOTED
			BFG CB#	BULLET PROOF GLASS	GEN GET	GENERATOR GRANITE ELOOR TILE	PR PTB	PAIR PORCELAIN TILE BASE	VACT	VINYL ACOUSTICAL
			CEM	CEMENTIOUS SIDING	GL	GLASS MOSAIC THE	PTD		VB	
			CFCI	CONTRACTOR FURNISHED,	GT	GROUT		PARTITIONS	VCT	VINYL COMPOSITION
			CFT	CERAMIC FLOOR TILE	GTP		PVC	PORCELAIN WALL TILE POLYVINYL CHLORIDE	VERT	VERTICAL
			CG	CAST IRON	HB	HOLLOW CORE HOSE BIB	QS	QUARTZ SURFACE	VIF	VERIFY IN FIELD
			CI# CJ	CURB INLET CONTROL JOINT	HC HDWD	HANDICAPP HARDWOOD	QT QZT	QUARRY TILE QUARTZ TILE		COVERING
			CLG CL	CEILING CENTERLINE	hm Horz	HOLLOW METAL HORIZONTAL	R	RADIUS	W/ WC	WITH WATER CLOSET
			CMU CO	CONCRETE MASONRY UNIT CLEAN OUT	HR ICF	HOUR INFECTION CONTROL	R&S RB	ROD AND SHELF RUBBER BASE	WD WF	WOOD WOOD FLOORING
			COL CONC	COLUMN CONCRETE	ID	FLOORING INSIDE DIAMETER	RBT RCP	RUBBER TILE REINFORCED CONCRETE	WWF	WELDED WIRE
ATIONS			CONSTR		INSTAL		RD		WWM	WELDED WIRE MESH
			CORR	CORRUGATED	INT	INTERIOR	RECEPT			
			CPT	CARPET CARPET TILE			REQD	REQUIRED		
NS			CRC	COLD ROLLED CHANNEL	JB JB#	JUNCTION BOX	RES	RUBBER MAT		
S			CRF CS	CORK RUBBER FLOORING COUNTERSUNK	JT L	JOINT LONG	ROW RSF	RIGHT OF WAY RESINOUS FLOORING		
5)			CWT DET	CERAMIC WALL TILE DETAIL	LFT LP	LINOLEUM FLOOR TILE LIGHT POLE	RTF	RESILENT TILE FLOORING		
RNATE 2)			DEPT DIA	DRY FOG PAINT DIAMETER	LST	LINOLEUM SHEET FLOORING	SAT	SPRAYED ACOUSTICAL TREATMENT		
NATE 3)			DISP DN	DISPENSER DOWN	LVT	LUXURY VINYL TILE	SC SCH	SEALED CONCRETE SCHEDUI F		
			DP	DEEP	MATL		SCW			
NG (ALTERNATE 3)			DS	DOWNSPOUT	MC		SF	SQUARE FEET		
. /			E/W	EACH WAY	MB	MASONRY - BRICK	SLS	SOLID SURFACE		
NS (ALTERNATE 2)			EDG	EDGE BANDING EMERGENCY EYE WASH AND		MECHANICAL	SP SQ	SPACES		
RNATE 2)			EFC	SHOWER EPOXY FLOOR COATING	MFT MIN	MARBLE FLOOR TILE	SS SSC	STAINLESS STEEL STAINED SEALED		
			EIFS	EXTERIOR INSULATION FINISH SYSTEM	MO MTB	MASONRY OPENING MARBLE TILE BASE	SRT	CONCRETE SLIP RESISTANT TILE		
			I			1				



T 919 781 8582 F 919 781 3979 4600 Lake Boone Trail Suite 205 Raleigh, NC 27607 info@smithsinnett.com



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Cmith Cinnott Architecture D A 2002
SITINU SITIFULACINECIALE, P.A. 2023
THIS DRAWING IS FORMATTED TO
BE PRINTED ON A 24" X 36" SHEET

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ELEVATION VALUE REFERENCE DESCRIPTION

SYMBOL LEGEND

A1-01

(180M|150A

DRAWING NO. -

SHEET NO.

DETAIL NO.

SHEET NO.

DOOR MARK

EGRESS LOAD

REQUIRED WIDTH

ANTICIPATED EGRESS LOAD

EGRESS WIDTH ______ 36" 30"

MAXIMUM

DETAIL NO.

SHEET NO.

DETAIL NO.

SHEET NO.

DETAIL NO.

SHEET NO.

5 DETAILS

INTERIOR ELEVATIONS & RELATED DETAILS

6 WINDOW & DOOR SCHEDULES

7 FINISH PLAN & SCHEDULES

8 VERTICAL CIRCULATION

9 BID ALTERNATES

ELEVATION VALUE		
REFERENCE DESCRIPTION	CONTROL / ELEVATION MA	4RK
SHEET NUMBERING LEC	END	
SECTION	DISCIPLINE F	Ά
0 DEMOLITION / GENERAL	G GENERAL	
2 EXTERIOR ELEVATIONS		
3 BUILDING / WALL SECTIONS	S STRUCTURAL	
4 ENLARGED PLANS, CASEWORK,		

GENERAL
CIVIL
LANDSCAPE
STRUCTURAL
ARCHITECTUR

DRAWING NAME

SECTION MARK

CALLOUT DETAIL

EXTERIOR ELEVATION MARK

INTERIOR ELEVATION MARK

EGRESS CALCULATION MARK

View Name

1/8" = 1'-0"

- Q EQUIPMENT
- P PLUMBING M MECHANICAL E ELECTRICAL
- FP FIRE PROTECTION X MISCELLANEOUS

DEMO MARK (A 11'-0")

 $\langle W1 \rangle$

B1

 $\langle 45 \rangle$

S4A

EHD

Room name

101A

PAGE NUMBER

CEILING TYPE / HEIGHT

DOOR MARK

WINDOW MARK

CASEWORK MARK

EQUIPMENT MARK

ACCESSORIES MARK

WALL MARK

REVISION AREA / NUMBER

NORTH ARROW

ROOM NAME/NUMBER

A1-01

COVER SHEET

2022017

G0-01

	(EXCEPT 1 AND 2-F.	AMILY DWELLINGS A	AND TOWNHOUSE	-0)				ALLO W
	(Reproduce the fol	lowing data on the building p	plans sheet 1 or 2)			Building Height in Feet	XISTIN	AI IG/
ame of Project:	TREXLER MIDDLE SC	HOOL RENOVATION AN	D SITE IMPROVEME	NTS		Provide code reference if the "	Shown on Plans" quan	ity is not
dress: <u>112 E. F</u> vner/Authorize	OY STREET, RICHLANDS, NC ed Agent: <u>BRENDAN GARTNE</u>	<u>ER Phone # (910) 455.2211 EXT</u>	<u> </u>	<u>28574</u> endan.gartner@onslow.k	.k12.nc.us		FIRE PR	OTECT
/ned By: <u>ONSL</u> de Enforceme	OW COUNTY SCHOOLS nt Jurisdiction:	City/County ONSLOW Pri City Co	ivate 0	State State		BUILDING ELEMENT	FIRE	R
NTACT:	CHARLIE TENNANT, SMITH SI	NNETT ARCHITECTURE					DISTANCE (FEET)	REQ D
JNER itectural	FIRM Smith Sinnett Architecture	NAME LICE Charlie Tennant 13798	NSE# TELEPHONE# E (919)781.8582 cte	E-MAIL ennant@smithsinnett.con	m	Structural Frame, including columns, girders, trusses		0
	Grounded Engineering	Sean Dolle 02696	(919)438.3694 se		ing.com	Bearing Walls		0
Alarm	Progressive Design Collaborative	e Steve Campbell 02502	<u>0 (919)790.9989 sc</u> 0 (919)790.9989 sc	ampbell@pdcengineering	ng.com	Exterior North		
mbing	Progressive Design Collaborative	e Steve Campbell 02502	2 <u>0 (919)790.9989 sc</u> 20 (919)790.9989 sc	ampbell@pdcengineering	ng.com	East		
inkler ndpipe						South		
ictural aining Walls	Kaydos-Daniels PLLC	Andrew Warnke 03146	(idrew@kaydosdanieis.co	om	Nonbearing Walls and		
r her" should	include firms and individua	als such as truss, precast, pre	()	signers, etc.)		Exterior walls		0
		11:				North East		
S NC BUILI	DING CODE: \square New Bu	Inding Addition	Shell/Core* Phase	d Construction*		West South		
	*Contact the local ins	spection jurisdiction for poss	iblitional procedures an	d requirements.		Interior walls and partition	ns	0
3 NC EXIST ock all that an	TING BUILDING CODE: oply)	$\square Prescriptive \square Alter \\ \square Repair \square Alter $	ation Level I \Box H	istoric Property		Floor Construction Including supporting bean	ns	0
		Chapter 14 Alter	ation Level III	nange of USC		and joists Floor Ceiling Assembly		0
UUNSTRU	UTED: (date)	CURRENT OCCUPA	ANCY(S) (Ch.3):			Columns Supporting Floors Roof Construction includin	ig light	0
KENOVAT OCCUPAN	ED: (date) CY CATEGORY (Table 1	РКОРОЅЕД ОССИР 1604.5): Current: <u> </u> Р	CAINCY(S) (Ch.3): Proposed:			supporting beams and joists Roof Ceiling Assembly	<u>s</u>	0
SIC BUILDI	ING DATA					Columns Supporting Roof		0
istruction Ty	ype: I-A I-B	■II-A □III-A □II-B □III-R	IV	V-A V-B		Shaft Enclosures- Exit Shaft Enclosures- Other		0
rinklers:	No Partial	$\square NFPA 13 \square NFPA 12$	3R 🗌 NFPA 13D	=		Corridor Separation		0
inapipes: imary Fire Di	■No Class ∐I istrict: □No □Yes	II III Wet Flood Hazard Ares	Dry 1: No Yes			Occupancy/Fire Barrier Sep Party/Fire Wall Separation	paration	0
ecial Inspecti	ons Required: Yes	No If special inspections	s are required, contact t	he local inspection		Smoke Barrier Separation Smoke Partition		0
		Juriscietion for dual	ional procedures and re	quirements.		Tenant/Dwelling Unit/ Sleeping Unit Separation		0
						Insidental Use Separation		N/A
018 NC Administr	rative Code and Policies	ross Building Area Table				* Indicate section number perm	nitting reduction	
8 NC Administr	rative Code and Policies G EXISTING (SQ FT)	Tross Building Area Table Work Area(sq ft)	Sub-T	<u>`OTAL</u>		* Indicate section number perm 2018 NC Administrative Coo	hitting reduction de and Policies PERCEN ICE DEGREE PRO	TAGE (
NC Administr	rative Code and Policies G EXISTING (SQ FT) SF	Tross Building Area Table Work Area(SQ FT) SF	SUB-T	COTAL		* Indicate section number perm 2018 NC Administrative Coo FIRE SEPARATION DISTAN (FEET) FROM PROPERTY LI	Ade and Policies PERCEN ICE DEGREE INES PRO (TAE	TAGE (DF OPENI TECTION LE 705.8)
B NC Administr OOR Floor Floor Floor Floor sement TOTAL	G EXISTING (SQ FT) SF 9,775 SF SF 9,775 SF	Fross Building Area Table WORK AREA(SQ FT) SF 9,775 SF SF 9,775 SF	SUB-T 9,775 \$ 9,775 \$	COTAL SF		* Indicate section number perm 2018 NC Administrative Cod FIRE SEPARATION DISTAN (FEET) FROM PROPERTY LI N/A	DERCEN CE DEGREE INES PRO' (TAE	TAGE (DF OPENII TECTION LE 705.8)
8 NC Administr 00R Floor Floor Floor Floor sement TOTAL	G EXISTING (SQ FT) SF 9,775 SF SF 9,775 SF 9,775 SF	Fross Building Area Table WORK AREA(SQ FT) SF 9,775 SF SF 9,775 SF 3,775 SF ALLOWABLE AREA	SUB-T 9,775 \$ 9,775 \$	°OTAL SF SF		* Indicate section number perm 2018 NC Administrative Cod FIRE SEPARATION DISTAN (FEET) FROM PROPERTY LI N/A	Ade and Policies PERCEN PERCEN CE DEGREE NES PRO' (TAE EXISTIN	TAGE (DF OPENII TECTION LE 705.8)
OOR Floor Floor Sement TOTAL nary Occup Assembly	G EXISTING (SQ FT) SF SF 9,775 SF SF 9,775 SF SF 9,775 SF SF 9,775 SF	Fross Building Area Table WORK AREA(SQ FT) SF 9,775 SF SF 9,775 SF ALLOWABLE AREA	SUB-T 9,775 \$ 9,775 \$	SF		Indicate section number perm 2018 NC Administrative Cod FIRE SEPARATION DISTAN (FEET) FROM PROPERTY LI N/A	Ade and Policies PERCEN ICE PERCEN ICE PRO (TAE ICE INES PRO (TAE ICE INES PRO (TAE ICE INES PRO LIFE SA	TAGE (DF OPENI TECTION LE 705.8)
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NC Administr OR Floor Floor Zzanine Floor ement TOTAL Hary Occups Assembly Business Educational Factory Hazardous	G EXISTING (SQ FT) SF 9,775 SF SF 9,775 SF 9,775 SF ancy Classification(s): A-1 A-2 A-3 F-1 Moderate F-2 Lo F-1 Moderate F-2 Lo	Fross Building Area Table WORK AREA(SQ FT) SF 9,775 SF 9,775 SF ALLOWABLE AREA A-4 A-4 A-5	SUB-T 9,775 \$ 9,775 \$ 9,775 \$	ГОТАL SF SF		* Indicate section number perm 2018 NC Administrative Cod FIRE SEPARATION DISTAN (FEET) FROM PROPERTY LI N/A Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Syste	Ade and Policies PERCEN PERCEN CE DEGREE PRO' (TAE LIFE SA No No No No No No No No No No No No N	TAGE (DF OPENI TECTION LE 705.8)
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8 NC Administr 200R ^d Floor ^d Floor ^e zzanine ^t Floor asement TOTAL mary Occup Assembly Business Educational Factory Hazardous Institutional Mercantile Residential Storage	G G EXISTING (SQ FT) SF 9,775 SF SF 9,71 Moderat	Fross Building Area Table WORK AREA(SQ FT) SF 9,775 SF 9,775 SF 9,775 SF ALLOWABLE AREA A-4 B-4 S-2 Low High-pilo R-4 S-2 Low Renair G		COTAL SF SF SF ■ 1PM □ 4 □ 5		* Indicate section number perminant 2018 NC Administrative Cool FIRE SEPARATION DISTAN (FEET) FROM PROPERTY LI N/A Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Syste Carbon Monoxide Detection Life Safety Plan Sheet #:	Ade and Policies PERCEN PERCEN CE NES PRO' (TAE CE NO EXISTIN LIFE SA No ems: No Existing LIFE SA G1-01	TAGE (DF OPENI TECTION LE 705.8) FETY S Yes Yes Yes Yes Yes Yes FETY P
¹ LOOR rd Floor nd Floor nd Floor ^{ast} Floor ³ asement TOTAL imary Occup Assembly Business Educational Factory Hazardous Institutional Mercantile Residential Storage Utility and Mercantile	G EXISTING (SQ FT) SF 9,775 SF SF 9,775 SF 9,775 SF ancy Classification(s): A-1 A-2 A-3 F-1 Moderate F-2 Lo H-1 Detonate H-2 D I-1 I-2 I I-3 I-4 I R-1 R-2 R-3 S-1 Moderate Parking Garage Ope fiscellaneous	Fross Building Area Table WORK AREA(SQ FT) SF 9,775 SF SF 9,775 SF ALLOWABLE AREA A-4 W Deflagrate H-3 Combust -1 & I-2 Condition -3 Condition -3 Condition -3 Condition -3 Condition	SUB-T 9,775 S 9,775 S 9,775 S 9,775 S 9,775 S 9,775 S 9,775 S 9,775 S 9,775 S	COTAL SF SF SF ■ IPM □ 4 □ 5		* Indicate section number perm 2018 NC Administrative Cod FIRE SEPARATION DISTAN (FEET) FROM PROPERTY LI N/A Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Syste Carbon Monoxide Detection Life Safety Plan Sheet #: Fire and/or smoke	Ade and Policies PERCEN PERCEN PERCEN PRO' (TAE ICE DEGREE PRO' (TAE ICE PRO' (TAE ICE NO EXISTIN LIFE SA ONO EMS: NO ECTION: NO ECTI	TAGE (DF OPENI TECTION LE 705.8) FETY S Yes Yes Yes Yes Yes Yes FETY P s (Chap
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LLOWABLE HEIGHT

ALLOWABLE SHOWN ON PLANS CODE REFERENCE IG/ ÜNCHANGED

antity is not based on Table 504.3 or 504.4.					
ROTEC	CTION REQUI	REMENTS	5		
REQ'D	RATING PROVIDED (W/* REDUCTION)	DETAIL# AND SHEET#	DESIGN# FOR RATED ASSEMBLY	SHEET# FOR RATED PENETRATION	SHEET# FOR RATED JOINTS
0					
0					
0					
0					
0					
0					
0					
0					
0					
0					
0					
0					
0					
0					
0					
0					
0					
0					
IN/A					

(SECTION 1107)							
TOTAL	ACCESSIBLE	ACCESSIBLE	TYPE A	TYPEA	TYPEB	TYPEB	TOTAL
UNITS	Units	U NITS	UNITS	UNITS	Units	Units	ACCESSIBLEUNITS
	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	PROVIDED
	N/A						
<u> <u> </u></u>							
ACCESSIBLE PARKING (SECTION 1106)							

LOT OK TAKKING	I OTAL# OF TP	IKKING SI ACES	# OF AC		IOIAL#		
AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPACES WITH		ACCESSIBLE	
			5' ACCESSAISLE	132"ACCESS	8' ACCESS	PROVIDED	
				AISLE	AISLE		
EXISTING		210	-	-	7	7	
TOTAL		210	-	-	7	7	
NOTE: SCOPE OF WORK WILL MAINTAIN EXISTING PARKING COUNTS							

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

JNTAINS
CESSIBLE
0
1
1
0
0
0
D 0 1 1 0 0 0 0 0 0

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below) ONSLOW COUNTY, NCDPI

2018 NC Administrative Code and Policies

TAGE OF WALL OPENING CALCULATIONS

F OPENINGS ECTION E 705.8) ALLOWABLE AREA ACTUAL SHOWN ON PLANS (%) (%)

IG/ UNCHANGED

FETY SYSTEM REQUIREMENTS

Yes (WORK AREAS) Yes Yes Yes Partial (WORK AREAS)

Yes (WORK AREAS)

FETY PLAN REQUIREMENTS

ns (Chapter 7) ions (if not on the site plan) ct to distance to assumed property lines (705.8) ates to occupant load calculation (Table 1004.1.2)

bles 1006.2.1 & 1006.3.2(1))

apacity each exit door can accommodate based on egress width (1005.3) where fire rated floor/ceiling and/or roof structure is provided for e (1010.1.10) s locks and the amount of delay (1010.1.9.7) c egress locks (1010.1.10) l-open devices ws (1030)

202) mpartment for Occupancy Classification I-2 (407.5)

es that may have been utilized regarding the items above

ENERGY REQUIREMENTS:

ENERGY SUMMARY

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: (If checked the remainder of this section is not applicable.)

Climate Zone: **3**A **4**A **5**A

Exempt Building: Provide code or statutory reference:

Method of Compliance: Energy Code Performance Prescriptive

ASHRAE 90.1 Performance Prescriptive Performance (specify source) _

THERMAL ENVELOPE (Prescriptive method only) Roof/ceiling Assembly(each assembly)

Other

Description of assembly: N/A U-Value of total assembly: R-Value of insulation: Skylights in each assembly:

U-Value of skylight: total square footage of skylights in each assembly: Exterior Walls (each assembly)

Description of assembly: N/A (ALTERNATE) WINDOW INFILL N/A (ALTERNATE) 0.0345 U-Value of total assembly: N/A (ALTERNATE) R-19 (6" BATT) + R-10ci R-Value of insulation: Openings (windows or doors with glazing) U-Value of assembly: Solar heat gain coefficient: 0.13 projection factor: Door R-Values: Walls below grade (each assembly) Description of assembly: N/A N/A U-Value of total assembly: R-Value of total assembly: N/A Floors over unconditioned space (each assembly) Description of assembly: N/A U-Value of total assembly: <u>N/A</u> R-Value of total assembly: $\frac{N/A}{N/A}$

Floors slab on grade Description of assembly: <u>4" CONCRETE OVER VAPOR BARRIER</u> 0.481 NR U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement: <u>NR</u> N/A slab heated:

2018 NC Administrative Code and Policies

	smith
2018 APPENDIX B	sinnett
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN	ARCHITECTURE
(PROVIDE ON PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)	
Importance Factors: Wind (I _W) Snow (I _S)	T 919 781 8582 F 919 781 3979 4600 Lake Boone Trail
Live Loads: Roof psf Mezzanine psf Floor psf	Suite 205 Raleigh, NC 27607 info@smithsinnett.com
Ground Snow Load: psf	
Wind Load: Basic Wind Speed mph (ASCE-7) Exposure Category	T. NO. CHARTION CHARTING CHART
SEISMIC DESIGN CATEGORY: \Box A \Box B \Box C \Box DProvide the following Seismic Design Parameters:Occupancy Category(Table 1604.5) \Box I \Box II \Box IVSpectral Response Acceleration S _S %gS ₁ %g	
Site Classification (ASCE 7) \Box A B \Box C \Box D \Box E F Data Source: \Box Field Test \Box Presumptive \Box Historical Data	ENNAM S
Basic structural system (check one)	THE CHIECT DE L
Building Frame Dual w/Intermediate R/C or Special Steel	DER
Analysis Procedure: Simplified Equivalent Lateral Force Dynamic Architectural, Mechanical, Components anchored? Yes No	ID/H
LATERAL DESIGN CONTROL: Earthquake Wind	A A A A A A A A A A A A A A A A A A A
SOIL BEARING CAPACITIES: psf Field Test (provide copy of test report) psf Presumptive Bearing capacity psf Pile size, type, and capacity	
	is the ure, s ament the the the tro tro tro tro tro tro tro tro tro tro
2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS	esign show et Architect or use of thi itten conser Any infring will be subj will be subj will be subj of this draw will be ubj v of this draw will be subj v of this draw act. wr x 36" SHED
MECHANICAL DESIGN	and the d nith Sinne oduction o oblibited. hip rights All copies and to the Architect Architect ON A 24
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE) MECHANICAL SUMMARY	his drawing a roperty of Sn A. the repro- roperty withor robitect is pr robitect is pr ust be return ompletion of mith Sinnett HIS DRAMII E PRINTED
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
winter dry bulb:	
Interior design conditions winter dry bulb	
summer dry bulb:	Z
Building heating load:	
Building cooling load:	IA
Mechanical Spacing Conditioning System	
Unitary description of unit:	
heating efficiency:	S R S
Boiler	
Chiller Size category If oversized, state reason :	우 오 ઽ I
List equipment efficiencies:	
2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY <	ONSLOW COUN TREXLER MIDDL & SITE IMPROVE 112 E FOY STREE
lamp type required in fixture number of lamps in fixture	
ballast type used in the fixture number of ballasts in fixture	
total wattage per fixture total interior wattage specified vs. allowed (whole building or space by space)	A 03/02/2023 ADDENDUM 1
total exterior wattage specified vs. allowed Additional Efficiency Package Options	ID DATE DESCRIPTION
(When using the 2018 NCECC; not required for ASHRAE 90.1)	
C406.3 Reduced Lighting Power Density	
C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System	
C406.7 Reduced Energy Use in Service Water Heating	
	DRAWN BY: AC
	SUMMARY
2018 NC Administrative Code and Policies	
	2022017 20 Feb 2023
	G0-02

MARKER		
SYMBOL		
DESCRIPTION		7/8" HAT CHA WITH 5/8" G
UL DESIGN #	HEAD WALL BASE	NON-RATED NON-RATED NON-RATED
	PENETRATIONS	REFERENCE
NOTES:		1. ALL CMU 2. FILL 1" G/ 3. AT ALL M DECKING 4. SEE FINIS 5. REFER TO 6. PROVIDE 7. CONTRAC



G, NEST TOP TRACK BUT DO NOT ATTACH TO DEFLECTION TRACK

GENERAL DEMOLITION NOTES: ALL CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY INCONSISTANCIES IN

- WRITING PRIOR TO STARTING ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR WEEKLY AND/OR DAILY REMOVAL AND PROPER DISPOSAL OF ALL DEBRIS ACCUMULATED DURING DEMOLITION AND CONSTRUCTION.
- REMOVAL OF HAZARDOUS MATERIAL AND DEBRIS SHALL BE AS FOLLOWS: A. ALL HAZARDOUS SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO PROJECT COMPLETION. CONTRACTOR SHALL FOLLOW ALL THE REQUIREMENTS TO LEGALLY
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ASBESTOS - REFER TO ASBESTOS REMOVAL DESIGN AND SPECIFICATIONS LEAD - REFER TO LEAD CLEANING DESIGN AND SPECIFICATIONS

- BULBS FLUORESCENT, MERCURY VAPOR, SODIUM, ETC, BULBS WILL BE HANDLED AS UNIVERSAL WASTE. UPON REMOVAL FROM LIGHTING DEVICES, THEY IMMEDIATELY MUST BE PUT INTO APPROPRIATE CONTAINERS AND LABELED ASUSED LAMPS. A UNIVERSAL WASTE LABEL WILL BE ATTACHED AND ACCUMULATION DATE FILLED IN ON THE LABEL. BOX MUST BE CLOSED AND TAPED SHUT AT ALL TIMES UNLESS BULBS ARE BEING ADDED. BULBS UNLESS BROKEN SHALL BE RECYCLED. ANY BROKEN OR DAMAGED BULBS WILL BE CONTAINERIZED IN PLASTIC OR METAL CONTAINERS FOR DISPOSAL AS HAZARDOUS WASTE BALLAST - ALL BALLAST WILL BE CONTAINERIZED AND RECYCLED
- ANY FLOOR, CEILING, WALL OR OTHER MATERIALS INCLUDING FINISHES IN AREAS TO REMAIN ARE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT. ANY MATERIALS DAMAGED DURING CONSTRUCTION OR DEMOLITION, SHALL BE RETURNED TO THEIR ORIGINAL STATE, OR IMPROVED AS INDICATED BY THE OWNER OR ARCHITECT, OR REPLACED WITH A NEW MATERIAL TO MATCH ADJACENT MATERIALS, TYPICAL.
- CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN AND MATERIALS EXPOSED TO VIEW WHERE OTHER ITEMS OR MATERIALS HAVE BEEN REMOVED.
- REFER TO PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL AND COMPLETE SCOPE OF DEMOLITION THAT MAY OR MAY NOT BE NOTED ON THE ARCHITECTURAL DEMOLITION PLAN AND NOTES.
- CONTRACTOR SHALL REMOVE ALL WALL MOUNTED FIXTURES OR ITEMS UNLESS OTHERWISE NOTED. ALL WALLS SHALL BE REPAIRED, AND VOIDS FILLED AFTER FIXTURE REMOVAL. ALL FINISHES SHALL MATCH ADJACENT SURFACES. REMOVE ALL FOREIGN MATTER, SHELVING, LOOSE DEBRIS INCLUDING TAPE, ADHESIVE, NAILS, SCREWS, ETC. FROM WALLS. SCRAPE, WIRE BRUSH, AND SAND SMOOTH. WASH ALL PAINTED SURFACES TO REMOVE ANY "FILM OR RESIDUE". PREPARE SURFACES TO PROVIDE A MAXIMUM DEGREE OF NEW PAINT ADHESION. PATCH AND REPAIR ALL VOIDS IN PREPARATION FOR NEW FINISHES.
- ALL FIXTURES, WALLS AND PORTIONS OF WALLS SHOWN AS DASHED LINES OR LABELED SHALL BE DEMOLISHED UNLESS ELEMENTS REMOVED OR REPLACED. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING AND IS RESPONSIBLE FOR ANY FAILURE DUE TO LACK OF PROPER BRACING.
- DURING THE BIDDING PROCESS, CONTRACTORS SHALL TAKE NOTE OF EXISTING PLUMBING MECHANICAL, AND ELECTRICAL ITEMS IN AREAS TO BE RENOVATED. ITEMS INCLUDE BUT ARE NOT LIMITED TO WIRES, CONDUITS, PIPES, THERMOSTATS, FIRE ALARM DEVICES, PANEL CANS, ETC. THESE HAVE BEEN IDENTIFIED IN THE DEMOLITION DRAWINGS FOR ARCHITETURE, PLUMBING, MECHANICAL, AND/OR ELECTRICAL. FOR ITEMS NOT SHOWN, CONTRACTOR SHALL WORK WITH THE ARCHITECT AND OWNER TO DETERMINE IF THE ITEM IS STILL IN USE ITEMS WHICH ARE NOTED TO BE REMOVED AND STORED FOR LATER REINSTALLATION SHALL BE TAGGED AND LISTED ON AN ITEMIZED LIST GIVEN TO THE OWNER AND ARCHITECT.
- . THE GENERAL CONTRACTOR SHALL COORDINATE THE DEMOLITION OF THE EXISTING BUILDING AREAS WITH THE ARCHITECT AND OWNER. THE CONTRACTOR SHALL COORDINATE AFTER HOURS WORK AND OBTAIN WRITTEN OWNER PERMISSION FOR NIGHT AND WEEKEND WORK.
- . CONTRACTOR SHALL ENSURE WATER-TIGHT INTEGRITY OF THE TEMPORARY ENCLOSURE SYSTEMS AND MAINTAIN THEM THROUGH THE ENTIRETY OF CONSTRUCTION TO PREVENT THE INTRUSION OF WATER AND THE ELEMENTS INTO THE BUILDING.
- 12. ALL EXISTING FIRE EXTINGUISHER AND BRACKETS SHALL REMAIN AND BE INSTALLED IN THEIR CURRENT LOCATION UNLESS SHOWN ON THE PLANS TO RELOCATE
- 3. CONTRACTOR SHALL PATCH AND FILL IN ANY VOIDS LEFT FROM THE DEMOLITION OF ANY PLUMBING, MECHANICAL, OR ELECTRICAL ITEMS. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR COMPLETE SCOPE OF DEMOLITION.

DEMOLITION SPECIFIC AREA NOTES:

REMOVE EXISTING CMU WALL, FRAMING, AND ASSOCIATED PARTS IN ITS ENTIRETY. ASSOCIATED PARTS INCLUDE BUT NOT LIMITED TO DOOR, DOOR RECEIVE NEW STUD WALL

ENTIRETY TO THE EXTENTS SHOWN. CONTRACTOR TO PROTECT EXISTING COLUMNS TO REMAIN WHERE APPLICABLE, UNLESS OTHERWISE NOTED. REFER TO CIVIL DRAWINGS FOR COMPLETE SCOPE OF DEMOLITION.

REMOVE EXISTING FLOOR FINISH & BASE IN ITS ENTIRETY FOR AREA NOTED. RECEIVE NEW FINISHES PER SPECIFICATION AND THESE CONSTRUCTION DRAWINGS.

REMOVE EXISTING DOOR, FRAME, TRANSOM, & HARDWARE IN ITS ENTIRETY. NEW FRAME.

ITS ENTIRETY, INCLUDING SECONDARY CEILING WHERE APPLICABLE. PREP AREA TO RECIEVE NEW CEILING.



			DEMOLITION L	EGEND:		
		REMOVE EXISTING WINDOW, GLAZING, BLINDS, FRAME AND ITS ASSOCIATED PARTS IN ITS ENTIRETY. REFER TO ASBESTOS REMOVAL DESIGN AND	SYMBOL	DESCRIPTION	SYMBOL	
	9	SPECIFICATIONS FOR INSTRUCTIONS ON THE ASBESTOS WINDOW GLAZING AND FRAME CAULK. PREPARE EXISTING WALL TO RECIEVE A NEW FRAME OR METAL PANEL INFILL ASSEMBLY. PREPARE SUBROUNGING AREA TO RECIEVE NEW FINISH		EXISTING CONCRETE SLAB TO BE REMOVED. SEE KEYED NOTE 9.	#	
		SPECIFIED OR IF NO FINISH SPECIFIED, MATCH EXISTING. WINDOW OPENING SHALL BE SECURED WITH EITHER A WEATHER PROOF TEMPORARY PARTITION OR THE PERMANENT FRAME AND GLAZING. REFER TO ALLOWANCE NO. ??		EXISTING FLOORING TO BE REMOVED		
	10	REMOVE EXISTING WINDOW, GLAZING, FRAME AND ITS ASSOCIATED PARTS IN ITS ENTIRETY. PREP EXISTING WALL TO BE INFILLED WITH STUD WALL.		NOTE THE PRESENCE OF ASBESTOS CONTAINING ITEMS. REFER TO ASBESTOS REMOVAL DESIGN & SPECIFICATIONS FOR REMOVAL INSTRUCTIONS.		
		REMOVE EXISTING METAL COLUMNS AND ASSOCIATED PARTS SUPPORTING CANOPY ABOVE.				
	12	REMOVE EXISTING CASEWORK, COUNTERS, AND SHELVING AND ALL ASSOCIATED PARTS IN ITS ENTIRETY. PATCH AND REPAIR ALL SURFACES TO REMAIN AS REQUIRED FOR SCOPE OF NEW PROJECT WORK AND FINISHES.	-			
	13	REMOVE ALL EXISTING LIGHTING FIXTURES, CEILING FANS, AND ALL ASSOCIATED PARTS IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO CONNECTING CONDUIT. RETURN CEILING FANS TO OWNER . REFER TO ELECTRICAL FOR COMPLETE SCOPE OF DEMOLITION. REFER TO GENERAL DEMO NOTES FOR REQUIREMENTS ON BULB AND BALLAST DISPOSAL.				
))	14	REMOVE EXISTING MECHANICAL SYSTEM AND ASSOCIATED PARTS. COMPONENTS INCLUDE BUT NOT LIMITED TO ROOF TOP UNIT, DUCTS, AND ASSOCIATED PARTS. REFER TO MECHANICAL COMPLETE SCOPE OF DEMOLITION.				
	15	REMOVE EXISTING RADIATOR AND ALL ASSOCIATED PARTS IN ITS ENTIRETY. REFER TO MECHANICAL DRAWINGS FOR COMPLETE SCOPE OF DEMOLITION.				
	16	REMOVE ALL EXISTING MARKER BOARDS, TACK BOARDS, OR ANY WALL-MOUNTED DISPLAY. PREPARE SURFACE TO RECEIVE NEW FINISH AND IF NO FINISH IS SPECIFIED, MATCH EXISTING.				
G	<u></u> 17	REMOVE EXISTING WOOD FRAMING, SHEATHING, AND ALL ASSOCIATED PARTS AND FASTENERS. PATCH AND REPAIR SURFACE TO REMAIN AS REQUIRED TO RECEIVE NEW FINISH SPECIFIED OR IF NO FINISH IS SPECIFIED MATCH EXISTING SURROUNDING SURFACES.				
	18	REMOVE EXISTING PIPING AND ALL ASSOCIATED PARTS IN ITS ENTIRETY. PATCH AND REPAIR SURFACE TO REMAIN AS REQUIRED TO RECEIVE NEW FINISH SPECIFIED OR IF NO FINISH IS SPECIFIED MATCH EXISTING SURROUNDING SURFACES. PROVIDE DEMOLITION MASONRY TOOTHING AS NECESSARY TO INFILL				
5,)		EXISTING MASONRY WALLS TO REMAIN.	-			
2	19	REMOVE EXISTING CONCRETE STAIR AND/OR RAMP SYSTEM, LANDINGS, MASONRY WALLS, AND ASSOCIATED PARTS IN THEIR ENTIRETY. ASSOCIATED PARTS INCLUDE BUT NOT LIMITED TO HANDRAIL, GUARDRAIL, AND INTERNAL STRUCTURE. CLEAR SOILS AND DEBRIS LEVEL WITH ADJACENT GRADE. PREPARE SURROUNDING AREA TO RECIEVE NEW WORK AS SPECIFIED.				

NOTES:	GENER	AL EQUIPMENT SC	HEDULE				
 ALL INTERIOR WALL TYPES TO BE 'S4UA' UNLESS OTHERWISE NOTED. WALL DIMENSIONS ARE TO FACE OF METAL STUD, FACE OF CONCRETE MASONRY UNIT (CMU), 	MARK	MODEL	DESCRIPTION	FURNISHED BY/INSTALLED BY	MOUNTING HEIGHT	MANUFACTURER	REMARKS
 OR CENTERLINE OF COLUMN. ALL METAL STUD WALLS TERMINATING AT BOTTOM OF DECK ARE TO PROVIDE A DEFLECTION TRACK SECURED TO THE UNDERSIDE OF THE DECKING, NEST TOP TRACK BUT DO NOT ATTACH TO DEFLECTION TRACK. FILL FLUTE IN METAL DECK WHERE REQUIRED. ALL WALLS EXTEND TO DECK AND ARE BRACED TO DECK AT HEAD ON ALTERNATE STUDS OF 	FEC	REFER TO SPECIFICATIONS	FIRE EXTENGUISHER AND SEMI-RECESSED FIRE EXTENGUISHER CABINET	CFCI	2' - 2" A.F.F. TO BOTTOM OF CASE	REFER TO SPECIFICATIONS	
 ALL WALLS EXTEND TO DECK AND ARE BRACED TO DECK AT HEAD ON ALTERNATE STODS OR 32" OC FOR CMU WALLS, UNLESS OTHERWISE NOTED. CONTROL JOINTS SHALL BE AS SHOWN ON PLANS AND ELEVATIONS OR SPACED AT A MUMIUM OF SOLUTION OF AN ANY MUM OF SOLUTION OF SOLUTIONS OF SPACED AT A 	MB	REFER TO SPECIFICATIONS	48"X96" MAGNETIC MARKER B	OARD OFCI	6' - 8" A.F.F. TO TOP OF MARKER BOARD	REFER TO SPECIFICATIONS	
 MINIMUM OF 20-0" OC AND A MAXIMUM OF 32-0" OC WITH ONE CONTROL JOINT LOCATED WITHIN 3'-4" OF ANY CORNER. FOR INTERIOR GYPSUM WALL CONTROL JOINTS SEE DETAIL SEE FINISH SCHEDULE FOR WALL, FLOOR, BASE, AND CEILING TYPES AND FINISHES. 	SH	REFER TO SPECIFICATIONS	SHELVING	CFCI	VARIES, SEE 7/A4-03	REFER TO SPECIFICATIONS	
 REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF REINFORCING, BOND BEAMS, BRACING, ETC. ALL EXTERIOR SIDEWALKS SHALL SLOPE AWAY FROM THE BUILDING AT 1/4" PER FOOT, 	ТВ	REFER TO SPECIFICATIONS	48"X96" TACK BOARD	OFCI	6' - 8" A.F.F. TO TOP OF TACK BOARD	REFER TO SPECIFICATIONS	
 MINIMUM. ALL EXTERIOR WINDOWS TO HAVE ROLLER SHADE BLINDS UNLESS OTHERWISE NOTED, REFER TO SPECIFICATIONS. FURNITURE AND EQUIPMENT SHOWN DASHED ON PLANS IS NOT IN CONTRACT (NIC). GC TO PROVIDE WOOD BLOCKING FOR ALL WALL/CEILING MOUNTED ACCESSORIES. FIELD VERIFY FINAL ROOM DIMENSIONS PRIOR TO CASEWORK FABRICATION. NOT USED 	SCHED CFCI - OFCI - OFOI -	ULE ABBREVIATIONS CONTRACTOR FURNIS OWNER FURNISHED / (OWNER FURNISHED / (HED / CONTRACTOR INSTALLED CONTRACTOR INSTALLED OWNER INSTALLED	NOTES 1. G.C. TO PROVIDE 3/4" FIRE OWNER / ARCHITECT FOR 2. G.C. TO PROVIDE NECESS COORDINATE WITH OWNE	E RETARDANT PLYWOOD PANEL TO MOUNT EQUIP OWNER FURNISHED EQUIPMENTS. SARY BLOCKING & REINFORCING PLATES IN GWB W R/ARCHITECT FOR OWNER FURNISHED EQUIPMEN	MENT. COORDINATION LOC /ALLS & REINFORCING IN CI	CATIONS WITH MU WALLS.
13. ALL CERAMIC TILE TO HAVE CONTROL JOINTS THAT ALIGN WITH CONTROL JOINTS IN							





CONCRETE SLAB.

14. THERE SHALL BE NO PENETRATIONS IN THROUGH WALL FLASHING.

15. DOOR JAMB FROM INTERSECTING WALLS: STUD - 4" UNLESS OTHERWISE NOTED



L						-
	MARK	MODEL	DESCRIPTION	FURNISHED BY/INSTALLED BY	MOUNTING HEIGHT	
	FM2	B-165 2436	TEMPERED GLASS CHANNEL FRAME MIRROR	CFCI	40" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE	
	GB18	B-6806	1 1/2" DIA. X 18" S.S. VERTICAL GRAB BAR - PEENED	CFCI	34" A.F.F. TO CENTER OF FIXTURE	
、「	GB36	B-6806	1 1/2" DIA. X 36" S.S. GRAB BAR - PEE	NED CFCI	34" A.F.F. TO CENTER OF FIXTURE	
	GB42	B-6806	1 1/2" DIA. X 42" S.S. GRAB BAR - PEE	NED CFCI	34" A.F.F. TO CENTER OF FIXTURE	Ī
	SD	TBD	SURFACE-MOUNTED SOAP DISPENS	ER OFOI	40" A.F.F. TO POINT OF DISPENSION	
)	SND	B-254	SURFACE MOUNTED SANITARY NAPH DISPOSAL	KIN OFOI	24" MAX TO POINT OF DISPENSION	
)	TD	TBD	SURFACE MOUNTED PAPER TOWEL DISPENSER AND WASTE RECEPTACI	OFOI LE	40" A.F.F. TO POINT OF DISPENSION	
	TP	TBD	SURFACE MOUNTED TOILET TISSUE DISPENSER	OFOI	20" TO POINT OF DISPENSION	
5						-





CASE	WORK NOTES AND
MARK	DESCRIPTION
B1	2'-0" DEEP BASE CABINET; TWO HIN ADJUSTABLE SHELF. PROVIDE FIXE HEIGHT/WIDTH VARIES.
B4	2'-0" DEEP BASE CABINET; ONE HING DRAWER. HEIGHT/WIDTH VARIES.
B7	LAMINATED PARTICLE BOARD PANE SCREWS TO 2X2 BLOCKING. ATTACH PANEL TO FLOOR. CLEAR WIDTH NC THROUGH ADA LAVATORY.
B8	2'-0" DEEP BASE CABINET; FOUR DR
W1	1'-0" DEEP WALL CABINET; TWO HING VERTICAL DIVIDER IN UNITS MORE 1 4'-0" INCREASE TO THREE ADJUSTA
W5	1'-0" DEEP, OPEN SHELVING; TWO A OVER 4'-0" INCREASE TO THREE AD.
W6	1'-0" DEEP CORNER WALL CABINET; VARIES. FOR HEIGHTS OVER 4'-0" IN LESS THAN 2'-0" REDUCE TO ONE AI
1. ALL 0 OTH 2. G.C.	CASEWORK SHOWN IS MANUFACTURE ERWISE. TO PROVIDE NECESSARY BLOCKING /



2 TEACHER'S BREAKROOM RCP A4-03 1/4" = 1'-0"

D LEGEND:

IGED DOORS AND TWO 6" HIGH DRAWERS AND ONE ED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE.

IGED DOOR WITH ONE ADJUSTABLE SHELF, ONE 6" HIGH

IELS TO MATCH ADJACENT CASEWORK. ATTACH WITH FINISH CHED TO SIDE OF CASEWORK OR PROVIDE FINISHED END O LESS THAN 30 INCHES FOR ADA SINK ACCESS. SEE SECTION

RAWERS. HEIGHT/WIDTH VARIES.

IGED DOORS AND TWO ADJUSTABLE SHELVES. PROVIDE FIXED THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES. FOR HEIGHTS OVER ABLE SHELVES.

ADJUSTABLE SHELVES. HEIGHT/WIDTH VARIES. FOR HEIGHTS DJUSTABLE SHELVES.

; ONE HINGED DOOR & TWO ADJUSTABLE SHELVES. HEIGHT NCREASE TO THREE ADJUSTABLE SHELVES. FOR HEIGHTS ADJUSTABLE SHELF.

RED PLASTIC LAMINATE CASEWORK, TYPICAL UNLESS NOTED AND REINFORCING PLATES IN GWB WALLS.



REFLECTED CEILING LEGEND AND NOTES





A 03/02/2023 ADDENDUM 1 ID DATE DESCRIPTION

DRAWN BY: AC CHECKED BY: CWT CASEWORK **ELEVATIONS AND** DETAILS

A4-03

2022017

20 Feb 2023

ENLARGED PLAN - TEACHER'S BREAKROOM 1 A4-03 1/4" = 1'-0"



GENERAL DEMOLITION NOTES:

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- CONTRACTOR SHALL REMOVE ALL WALL MOUNTED FIXTURES OR ITEMS UNLESS OTHERWISE NOTED. ALL WALLS SHALL BE REPAIRED, AND VOIDS FILLED AFTER FIXTURE REMOVAL. ALL FINISHES SHALL MATCH ADJACENT SURFACES. REMOVE ALL FOREIGN MATTER, SHELVING, LOOSE DEBRIS INCLUDING TAPE, ADHESIVE, NAILS, SCREWS, ETC. FROM WALLS. SCRAPE, WIRE BRUSH, AND SAND SMOOTH. WASH ALL PAINTED SURFACES TO REMOVE ANY "FILM OR RESIDUE". PREPARE SURFACES TO PROVIDE A MAXIMUM DEGREE OF NEW PAINT ADHESION. PATCH AND REPAIR ALL VOIDS IN PREPARATION FOR NEW FINISHES.
- ALL FIXTURES, WALLS AND PORTIONS OF WALLS SHOWN AS DASHED LINES OR LABELED SHALL BE DEMOLISHED UNLESS ELEMENTS REMOVED OR REPLACED. CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING AND IS RESPONSIBLE FOR ANY FAILURE DUE TO LACK OF PROPER BRACING.
- DURING THE BIDDING PROCESS, CONTRACTORS SHALL TAKE NOTE OF EXISTING PLUMBING MECHANICAL, AND ELECTRICAL ITEMS IN AREAS TO BE RENOVATED. ITEMS INCLUDE BUT ARE NOT LIMITED TO WIRES, CONDUITS, PIPES, THERMOSTATS, FIRE ALARM DEVICES, PANEL CANS, ETC. THESE HAVE BEEN IDENTIFIED IN THE DEMOLITION DRAWINGS FOR ARCHITETURE, PLUMBING, MECHANICAL, AND/OR ELECTRICAL. FOR ITEMS NOT SHOWN, CONTRACTOR SHALL WORK WITH THE ARCHITECT AND OWNER TO DETERMINE IF THE ITEM IS STILL IN USE ITEMS WHICH ARE NOTED TO BE REMOVED AND STORED FOR LATER REINSTALLATION SHALL BE TAGGED AND LISTED ON AN ITEMIZED LIST GIVEN TO THE OWNER AND ARCHITECT.
- . THE GENERAL CONTRACTOR SHALL COORDINATE THE DEMOLITION OF THE EXISTING BUILDING AREAS WITH THE ARCHITECT AND OWNER. THE CONTRACTOR SHALL COORDINATE AFTER HOURS WORK AND OBTAIN WRITTEN OWNER PERMISSION FOR NIGHT AND WEEKEND WORK.
- . CONTRACTOR SHALL ENSURE WATER-TIGHT INTEGRITY OF THE TEMPORARY ENCLOSURE SYSTEMS AND MAINTAIN THEM THROUGH THE ENTIRETY OF CONSTRUCTION TO PREVENT THE INTRUSION OF WATER AND THE ELEMENTS INTO THE BUILDING.
- 12. ALL EXISTING FIRE EXTINGUISHER AND BRACKETS SHALL REMAIN AND BE INSTALLED IN THEIR CURRENT LOCATION UNLESS SHOWN ON THE PLANS TO RELOCATE
- 3. CONTRACTOR SHALL PATCH AND FILL IN ANY VOIDS LEFT FROM THE DEMOLITION OF ANY PLUMBING, MECHANICAL, OR ELECTRICAL ITEMS. REFER TO PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR COMPLETE SCOPE OF DEMOLITION.

DEMOLITION SPECIFIC AREA NOTES:

REMOVE EXISTING DOOR. FRAME, TRANSOM, & HARDWARE IN ITS ENTIRETY. PREPARE EXISTING WALL TO RECEIVE A NEW FRAME AND PREPARE SURROUNDING AREA TO RECEIVE NEW FINISH SPECIFIED OR IF NO FINISH IS SPECIFIED MATCH EXISTING. PROVIDE DEMOLITION MASONRY TOOTHING AS NECESSARY TO INSTALL NEW FRAME.

REMOVE EXISTING WINDOW, GLAZING, BLINDS, FRAME AND ITS ASSOCIATED PARTS IN ITS ENTIRETY. REFER TO ASBESTOS REMOVAL DESIGN AND SPECIFICATIONS FOR INSTRUCTIONS ON THE ASBESTOS WINDOW GLAZING AND FRAME CAULK. PREPARE EXISTING WALL TO RECIEVE A NEW FRAME OR METAL PANEL INFILL ASSEMBLY. PREPARE SURROUNGING AREA TO RECIEVE NEW FINISH SPECIFIED OR IF NO FINISH SPECIFIED, MATCH EXISTING. WINDOW OPENING SHALL BE SECURED WITH EITHER A WEATHER PROOF TEMPORARY PARTITION OR THE PERMANENT FRAME AND GLAZING.

DEMOLITION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
#	DEMOLITION KEYED NOTE		EXISTING TO BE
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NOTES:

- ALL INTERIOR WALL TYPES TO BE 'S4UA' UNLESS OTHERWISE NOTED.
- WALL DIMENSIONS ARE TO FACE OF METAL STUD. FACE OF CONCRETE MASONRY UNIT (CMU), OR CENTERLINE OF COLUMN. ALL METAL STUD WALLS TERMINATING AT BOTTOM OF DECK ARE TO PROVIDE A DEFLECTION
- TRACK SECURED TO THE UNDERSIDE OF THE DECKING, NEST TOP TRACK BUT DO NOT ATTACH TO DEFLECTION TRACK. FILL FLUTE IN METAL DECK WHERE REQUIRED.
- ALL WALLS EXTEND TO DECK AND ARE BRACED TO DECK AT HEAD ON ALTERNATE STUDS OR 32" OC FOR CMU WALLS, UNLESS OTHERWISE NOTED. CONTROL JOINTS SHALL BE AS SHOWN ON PLANS AND ELEVATIONS OR SPACED AT A
- MINIMUM OF 20'-0" OC AND A MAXIMUM OF 32'-0" OC WITH ONE CONTROL JOINT LOCATED WITHIN 3'-4" OF ANY CORNER. FOR INTERIOR GYPSUM WALL CONTROL JOINTS SEE DETAIL SEE FINISH SCHEDULE FOR WALL, FLOOR, BASE, AND CEILING TYPES AND FINISHES.
- REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF REINFORCING, BOND BEAMS, BRACING, ETC.
- ALL EXTERIOR SIDEWALKS SHALL SLOPE AWAY FROM THE BUILDING AT 1/4" PER FOOT,
- MINIMUM. ALL EXTERIOR WINDOWS TO HAVE ROLLER SHADE BLINDS UNLESS OTHERWISE NOTED,
- REFER TO SPECIFICATIONS. . FURNITURE AND EQUIPMENT SHOWN DASHED ON PLANS IS NOT IN CONTRACT (NIC). GC TO PROVIDE WOOD BLOCKING FOR ALL WALL/CEILING MOUNTED ACCESSORIES. FIELD VERIFY FINAL ROOM DIMENSIONS PRIOR TO CASEWORK FABRICATION.
- 2. NOT USED 13. ALL CERAMIC TILE TO HAVE CONTROL JOINTS THAT ALIGN WITH CONTROL JOINTS IN
- CONCRETE SLAB. 14. THERE SHALL BE NO PENETRATIONS IN THROUGH WALL FLASHING.
- 15. DOOR JAMB FROM INTERSECTING WALLS: STUD 4" UNLESS OTHERWISE NOTED



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REFLI 02 1/8" = 1'. 1/8" = 1'. 1/3	ECTED CEILING PLAN - ALT 5	



NOTES:

- ALL INTERIOR WALL TYPES TO BE 'S4UA' UNLESS OTHERWISE NOTED.
- WALL DIMENSIONS ARE TO FACE OF METAL STUD, FACE OF CONCRETE MASONRY UNIT (CMU),
- OR CENTERLINE OF COLUMN. ALL METAL STUD WALLS TERMINATING AT BOTTOM OF DECK ARE TO PROVIDE A DEFLECTION TRACK SECURED TO THE UNDERSIDE OF THE DECKING, NEST TOP TRACK BUT DO NOT
- ATTACH TO DEFLECTION TRACK. FILL FLUTE IN METAL DECK WHERE REQUIRED. ALL WALLS EXTEND TO DECK AND ARE BRACED TO DECK AT HEAD ON ALTERNATE STUDS OR 32" OC FOR CMU WALLS, UNLESS OTHERWISE NOTED.
- CONTROL JOINTS SHALL BE AS SHOWN ON PLANS AND ELEVATIONS OR SPACED AT A MINIMUM OF 20'-0" OC AND A MAXIMUM OF 32'-0" OC WITH ONE CONTROL JOINT LOCATED WITHIN 3'-4" OF ANY CORNER. FOR INTERIOR GYPSUM WALL CONTROL JOINTS SEE DETAIL
- SEE FINISH SCHEDULE FOR WALL, FLOOR, BASE, AND CEILING TYPES AND FINISHES. REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF REINFORCING, BOND BEAMS,
- BRACING, ETC. ALL EXTERIOR SIDEWALKS SHALL SLOPE AWAY FROM THE BUILDING AT 1/4" PER FOOT,
- MINIMUM. ALL EXTERIOR WINDOWS TO HAVE ROLLER SHADE BLINDS UNLESS OTHERWISE NOTED,
- REFER TO SPECIFICATIONS. 10. FURNITURE AND EQUIPMENT SHOWN DASHED ON PLANS IS NOT IN CONTRACT (NIC). GC TO PROVIDE WOOD BLOCKING FOR ALL WALL/CEILING MOUNTED ACCESSORIES.
- 1. FIELD VERIFY FINAL ROOM DIMENSIONS PRIOR TO CASEWORK FABRICATION.
- 12. NOT USED
- 13. ALL CERAMIC TILE TO HAVE CONTROL JOINTS THAT ALIGN WITH CONTROL JOINTS IN CONCRETE SLAB.
- 14. THERE SHALL BE NO PENETRATIONS IN THROUGH WALL FLASHING. 15. DOOR JAMB FROM INTERSECTING WALLS: STUD - 4" UNLESS OTHERWISE NOTED

A9-03 1/8" = 1'-0"

	smith sinnett architecture
	T 919 781 8582 F 919 781 3979 4600 Lake Boone Trail Suite 205 Raleigh, NC 27607 info@smithsinnett.com
	BID/PERMIT NAMER AND
	This drawing and the design shown is the property of Smith Sinnett Architecture, P.A. the reproduction or use of this property without the written consent of the Architect is prohibited. Any infringement of the ownership rights will be subject to legal action. All copies of this drawing must be returned to the Architect at the completion of the contract. Smith Sinnett Architecture, P.A. 2023 THIS DRAWING IS FORMATTED TO BE PRINTED ON A 24" X 36" SHEET
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	EXTERIOR BUILDING ELEVATIONS (ALTERNATE 2) 2022017 20 Feb 2023 A9-03

SECTION 00 01 05 - NOTICE TO BIDDERS

NOTICE TO BIDDERS

Sealed proposals will be received by the <u>Onslow County School Board</u> in <u>Jacksonville NC</u>, at the <u>Onslow County</u> <u>Schools Offices, 200 Broadhurst Road, Jacksonville, NC 28540</u> up to <u>2:00pm March 21</u>, 2023 and immediately thereafter publicly opened and read for the furnishing of labor, material and equipment entering into the construction of Trexler Middle School Renovation & Site Improvements Richlands, NC

This bid package includes the interior renovation of a 9,500 square foot building on the campus of Trexler Middle School. Renovation will includes but is not limited to reconfiguration of an existing classroom to accommodate new restrooms and a teacher's breakroom, utility infrastructure upgrades (mechanical, electrical, and plumbing), accessibility upgrades, and updated finishes. Site work includes a new bus parking lot, resurfaced parent/student queue, and associated canopies/sidewalks. Additional included is all other work as shown, indicated or reasonably implied on the drawings and/or specifications for a complete, first class job.

Bids will be received for Single Prime. All proposals shall be lump sum.

Pre-Bid Meeting

A mandatory pre-bid meeting will be held on <u>February 28, 2022 --- 1:00pm ---- Trexler Middle School, 112 E. Foy</u> <u>Street, Richlands, NC 28574.</u> The meeting will address project specific questions, issues, bidding procedures and bid forms.

Complete plans, specifications and contract documents will be open for inspection in the offices of *Director of* Maintenance and are available upon request from Smith Sinnett Architecture, 4600 Lake Boone Trail, Suite 205, Raleigh, NC 27607, Phone: 919-781-8582 or email Charlie Tennant at ctennant@smithsinnett.com.

NOTE: The bidder shall include <u>with the bid proposal</u> the form *Identification of Minority Business Participation* identifying the minority business participation it will use on the project <u>and</u> shall include either *Affidavit A* or *Affidavit B* as applicable. Forms and instructions are included within the Proposal Form in the bid documents. Failure to complete these forms is grounds for rejection of the bid. (GS143-128.2c Effective 1/1/2002.)

All contractors are hereby notified that they must have proper license as required under the state laws governing their respective trades. General contractors are notified that Chapter 87, Article 1, General Statutes of North Carolina, will be observed in receiving and awarding general contracts. General contractors submitting bids on this project must have license classification for "Unlimited Building" or "Unclassified," required by the NC General Contractors Licensing Board under G.S. 87-1.)

<u>NOTE</u>: SINGLE PRIME CONTRACTS: Under GS 87-1, a contractor that superintends or manages construction of any building, highway, public utility, grading, structure or improvement shall be deemed a "general contractor" and shall be so licensed. Therefore a single prime project that involves other trades will require the single prime contractor to hold a proper General Contractors license. <u>EXCEPT</u>: On public buildings being bid <u>single prime</u>, where the total value of the general construction does not exceed 25% of the total construction value, contractors under GS87- Arts 2 and 4 (Plumbing, Mechanical & Electrical) may bid and contract directly with the Owner as the SINGLE PRIME CONTRACTOR and may subcontract to other properly licensed trades. <u>GS87-1.1- Rules .0210</u>

Each proposal shall be accompanied by a cash deposit or a certified check drawn on some bank or trust company, insured by the Federal Deposit Insurance Corporation, of an amount equal to not less than five percent (5%) of the proposal, or in lieu thereof a bidder may offer a bid bond of five percent (5%) of the bid executed by a surety

Trexler Middle School Renovation & Site Improvements Richlands, NC

company licensed under the laws of North Carolina to execute the contract in accordance with the bid bond. Said deposit shall be retained by the owner as liquidated damages in event of failure of the successful bidder to execute the contract within ten days after the award or to give satisfactory surety as required by law.

A performance bond and a payment bond will be required for one hundred percent (100%) of the contract price.

Payment will be made based on ninety-five percent (95%) of monthly estimates and final payment made upon completion and acceptance of work.

No bid may be withdrawn after the scheduled closing time for the receipt of bids for a period of 60 days.

The Owner reserves the right to reject any or all bids and to waive informalities.

Designer: Charlie Tennant, AIA

Smith Sinnett Architecture . (Name)

4600 Lake Boone Trail, Suite 205 Raleigh, North Carolina 27607 (Address)

<u>(919) 781-8582</u> <u>(Phone)</u> Owner: Daniel Gray, Maintenance Director Onslow County Schools (Agency/Institution)

200 Broadhurst Road Jacksonville, North Carolina 28540 (Address)

(910) 455-2211 (Phone)

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SECTION 00 42 00 - PROPOSAL FORM

- PROJECT: Trexler Middle School Renovation & Site Improvements 112 E. Foy Street Richlands, NC 28574
- OWNER: Onslow County School Board 200 Broadhurst Road Jacksonville, North Carolina 28540
- ARCHITECT: Smith Sinnett Architecture 4600 Lake Boone Trail, Suite 205 Raleigh, North Carolina 27607

The undersigned, as bidder, hereby declares that the only person or persons interested in this proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this proposal or in the contract to be entered into; that this proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respects fair and in good faith without collusion or fraud. The bidder further declares that he has examined the site of the work and the contract documents relative thereto, and has read all special provisions furnished prior to the opening of bids; that he has satisfied himself relative to the work to be performed.

The Bidder proposes and agrees if this proposal is accepted to contract with <u>Onslow County Board of Education</u> in the form of contract specified below, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary to complete the construction of

Trexler Middle School Renovation & Site Improvements

in full in complete accordance with the plans, specifications and contract documents, to the full and entire satisfaction of the <u>Onslow County Board of Education</u>, and <u>Smith Sinnett Architecture</u> with a definite understanding that no money will be allowed for extra work except as set forth in the General Conditions and the contract documents.

The low Bidder will be determined by the total cost of the Contract with the lump sum prices of the alternates accepted being added to or deducted from the Base Bid to give the total cost of the Contract. Bidders are required to give a price for Base Bid, all Alternates, and all Unit Prices as applicable to their Contract. All Bidders are required to be licensed and in good standing with their respective North Carolina Licensing Board.

SINGLE PRIME CONTRACT:

BASE BID		
Amount:	Dollars (\$)
ALTERNATE 1-1: Preferred Alternate – Pro	ovide HVAC Wall Unit by single brand Bard	
Amount:	Dollars (\$)
ALTERNATE 1-2: Preferred Alternate – Pro	ovide Electrical Switches by single brand Square E)
Amount:	Dollars (\$)
ALTERNATE 1-3: Preferred Alternate – Pro	ovide Water Cooler with Bottle Filler by single bra	und Elkay
Amount:	Dollars (\$)
ALTERNATE 1-4: Preferred Alternate – Pro	ovide Thermostat by single brand Venstar Explore	er Smart Stat
Amount:	Dollars (\$)
ALTERNATE 1-5a: Preferred Alternate – Pr	rovide Door Hardware: Door Locks by single bran	nd Schlage
Amount:	Dollars (\$)
ALTERNATE 1-5b: Preferred Alternate –Pr	ovide Door Hardware: Exit Devices by single bran	nd Von Dupri
Amount:	Dollars (\$)
ALTERNATE 1-5c: Preferred Alternate – Pr	ovide Door Hardware: Closers by single brand L	CN
Amount:	Dollars (\$)
ALTERNATE 2-1: ESSER Scope of Work –	Mechanical and Associated Electrical Upgrades	
Amount:	Dollars (\$)
ALTERNATE 2-2: NOT USED		
Amount:	Dollars (\$)
ALTERNATE 2-3: NOT USED		
Amount:	Dollars (\$)
ALTERNATE 2-4: ESSER Scope of Work –	Door Replacement and Transom Infill	
Amount:	Dollars (\$)
ALTERNATE 2-5: ESSER Scope of Work –	Window Replacement	

•		
Amount:	Parking – Parking Lot, Drive, and Associated Sidew	ollars (\$) r alks
Amount:	I	Oollars (\$)
ALTERNATE 3-2: Bus	Parking – Canopy and Lighting	
Amount:	I	Oollars (\$)
ALTERNATE 4: Paren	t / Student Queue	
Amount:	I	Oollars (\$)
ALTERNATE 5: Ceilin	gs, Lighting, and Electrical Upgrades	
Amount:	I	Dollars (\$)
ALLOWANCES - (Rebe based on the Unit Price in the Base Bid.	efer to Division 01 Section 01 21 00 – Allowances for a es provided as part of Section 01 22 00) Acknowledge A	mounts to be included in bid shall Allowances have been included with
UP/A-1 UP/A	-2 UP/A-3 UP/A-4 UP/	'A-5 UP/A-6
UP/A-7 UP/A	-8 UP/A-9 A-10 A-11	
UNIT PRICES - (Ro Unit prices quoted and ac noted. Unit prices shall b the work and in the given	efer to Division 01 Section 01 22 00 - Unit Prices for Q cepted shall apply throughout the life of the contract, ex be applied, as appropriate, to compute the total value of Allowances all in accordance with the contract docume	uantities) accept as otherwise specifically changes in the base bid quantity of ents.
Unit Price No. UP/A-1;	Unsuitable Soils Removal and Disposal Off-Site: per	<u>cy.</u> Unit Price (\$)
Unit Price No. UP/A-2;	Rock Removal and Disposal Off-Site: per cy.	Unit Price (\$)
Unit Price No. UP/A-3;	Replacement of Authorized Excavation of Unsuitable Soils or Rock with <u>Off-Site</u> Imported Fill:	Unit Price (\$) per cy.
Unit Price No. UP/A-4;	Replacement of Authorized Excavation of Unsuitable Soils/Rock with (ABC) Stone Material: <u>per cy.</u>	Unit Price (\$)
Unit Price No. UP/A-5;	Geo-Grid in Place: per square yard.	Unit Price (\$)
Unit Price No. UP/A-6;	Underground Sanitary Line: per linear foot.	Unit Price (\$)
Unit Price No. UP/A-7;	Floor Leveling Compound: per square foot.	Unit Price (\$)
Unit Price No. UP/A-8;	Topical Moisture Mitigation System: per square foot.	Unit Price (\$)
Unit Price No. UP/A-9;	Abrasive Blast Floor Preparation: per square foot.	Unit Price (\$)

The bidder further proposes and agrees hereby to commence work under this contract on a date to be specified in a written order of the designer and shall fully complete all work thereunder within the time specified in the Supplementary General Conditions Article 9. Applicable liquidated damages amount is also stated in the Supplementary General Conditions Article 9.

MAJOR SUBCONTRACTORS if any (Name, City & State)

General Subcontractor:

Lic Mechanical Subcontractor: _____Lic____ Electrical Subcontractor: _Lic____ Plumbing Subcontractor:

Lic

GS143-128(d) requires all single prime bidders to identify their subcontractors for the above subdivisions of work. A contractor whose bid is accepted shall not substitute any person as subcontractor in the place of the subcontractor listed in the original bid, except (i) if the listed subcontractor's bid is later determined by the contractor to be non-responsible or non-responsive or the listed subcontractor refuses to enter into a contract for the complete performance of the bid work, or (ii) with the approval of the awarding authority for good cause shown by the contractor.

ADDENDUM

(Addendum received and used in computing bid)

Addendum No. 1	Addendum No. 3	Addendum No. 5
Addendum No. 2	Addendum No. 4	Addendum No. 6
Proposal Signature Page

The undersigned further agrees that in the case of failure on his part to execute the said contract and the bonds within ten (10) consecutive calendar days after being given written notice of the award of contract, the certified check, cash or bid bond accompanying this bid shall be paid into the funds of the owner's account set aside for the project, as liquidated damages for such failure; otherwise the certified check, cash or bid bond accompanying this proposal shall be returned to the undersigned. No proposal may be withdrawn after the scheduled closing time for the receipt of Bids for a period of sixty (60) days.

Respectfully submitted this day of _____

(Name of firm or corporation making bid)					
WITNESS:	By:				
	Signature				
(Proprietorship or Partnership)	Name:				
	Print or type				
	Title:				
	(Owner/Partner/Pres./V.Pres)				
	Address:				
ATTEST:					
By:	License No				
Title:	Federal I.D. No.				
(Corp. Sec. or Asst. Sec. only)					

(CORPORATE SEAL)

MINORITY BUSINESS PARTICIPATION REQUIREMENTS

<u>Provide with the bid</u> - Under GS 143-128.2(c) the undersigned bidder shall identify <u>on its bid</u> (Identification of Minority Business Participation Form) the minority businesses that it will use on the project with the total dollar value of the bids that will be performed by the minority businesses. <u>Also</u> list the good faith efforts (Affidavit A) made to solicit minority participation in the bid effort.

NOTE: A contractor that performs all of the work with its <u>own workforce</u> may submit an Affidavit (**B**) to that effect in lieu of Affidavit (**A**) required above. The MB Participation Form must still be submitted even if there is zero participation.

<u>After the bid opening</u> - The Owner will consider all bids and alternates and determine the lowest responsible, responsive bidder. Upon notification of being the apparent low bidder, the bidder shall then file within 72 hours of the notification of being the apparent lowest bidder, the following:

An Affidavit (C) that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is <u>equal to or more than the 10% goal</u> established. This affidavit shall give rise to the presumption that the bidder has made the required good faith effort and Affidavit **D** is not necessary;

* OR *

<u>If less than the 10% goal</u>, Affidavit (**D**) of its good faith effort to meet the goal shall be provided. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract.

Note: Bidders must always submit with their bid the Identification of Minority Business Participation Form listing

all MB contractors, vendors and suppliers that will be used. If there is no MB participation, then enter none or zero

on the form. Affidavit A or Affidavit B, as applicable, also must be submitted with the bid. Failure to file a

required affidavit or documentation with the bid or after being notified apparent low bidder is grounds for rejection

of the bid.

END OF SECTION 00 42 00

SECTION 00 73 00 - SUPPLEMENTARY GENERAL CONDITIONS

The following supplements modify, change, delete from or add to the "General Conditions of the Contract for Construction," AIA Document A201-2017. Where any article of the General Conditions is modified or any paragraph, subparagraph or clause thereof is modified or deleted by these Supplementary Conditions, the unaltered provisions of that article, paragraph, subparagraph or clause shall remain in effect.

ARTICLE 1 GENERAL PROVISIONS

Paragraph 1.1 Basic Definitions:

For further clarification of definitions refer to the following:

Owner:	Onslow County Board of Education
Architect:	Smith Sinnett Architecture, P.A., or an official representative thereof.
Project Manual:	The Project Manual is the volume generally referred to as the "Specifications" and consists of the bidding requirements, sample forms and certain Contract Documents such as the Conditions of the Contract, and the Specifications.

ARTICLE 2 OWNER

Paragraph 2.2 Information and Services Required of the Owner:

Delete Subparagraph 2.2.5 and substitute the following:

2.2.5 Construction Documents are provided as electronic files. The Contractor is responsible for printing hard copies of the Drawings and Project Manuals in the quantities necessary for construction.

ARTICLE 3 CONTRACTOR

Paragraph 3.12 Shop Drawings, Product Data and Samples:

Add the following subparagraphs 3.12.7.1

3.12.7.1 No submittal involving the selection of a color will be released until all colors are selected and approved by the Owner.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

<u>Clarification</u>: References to "separate contractors" and "separate contracts" do not apply to the Prime Contract of the Work covered in this Project Manual or Drawings, but only to other contractors or other contracts undertaken by the Owner prior to, concurrent with, or subsequent to the Work of this Project. The Work of the Prime Contractor bidding on and constructing this Project are not considered "separate contractors" or separate contracts" as identified in this Article.

The Owner has no responsibility to coordinate the work or activities of the Prime Contractor on this Project, but only to coordinate the work of his own forces or his "separate contractors" with the Prime Contractor for this Project.

ARTICLE 7 CHANGES IN THE WORK

Paragraph 7.1 General:

Add the following subparagraph 7.1.4:

- 7.1.4 Allowance for combined overhead and profit on changes, whether by Change Order or Construction Change Directive shall be limited in accordance with the following:
 - .1) For the Contractor, for Work performed by the Contractor's own forces, **15** percent of the cost.
 - .2) For the Contractor, for Work performed by the Contractor's Subcontractor, **7.5** percent of the amount due the Subcontractor.
 - .3) For each Subcontractor or Sub-subcontractor involved, for Work performed by that Subcontractor's or Sub- subcontractor's own forces, **7.5** percent of the cost.
 - .4) For each Subcontractor, for Work performed by the Subcontractor's Sub-subcontractor, 7.5 percent of the amount due the Sub-subcontractor.
 - .5) Cost to which overhead and profit is to be applied shall be determined in accordance with Subparagraph 7.3.8.
 - .6) In the case of deductive changes, the Contractor shall include not less than 15 percent of the cost.
 - .7) In order to facilitate checking quotations for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including, labor, materials, and Subcontracts. Labor and materials shall be itemized in the manner prescribed above. Where major cost items are Subcontracts, they shall be itemized also. In no case will a change over \$250.00 be approved without such itemization.

ARTICLE 8 TIME

Paragraph 8.2 Progress and Completion:

Add the following Clauses 8.2.3.1 and 8.2.3.2 to Subparagraph 8.2.3:

- 8.3.2.1 The Contract time shall commence on a date to be specified in a written Notice to Proceed from the Architect, anticipated to be about April 26, 2023, and the Substantial Completion shall be 380 days from the NTP which is on or about May 10, 2024.
- 8.3.2.2 Final Completion shall occur on or before **30 days after Substantial Completion**.

ARTICLE 9 PAYMENTS AND COMPLETION

Paragraph 9.3 Applications for Payment:

Add the following sentence to Subparagraph 9.3.1:

The form of Application for payment shall be a notarized AIA Document G702, Application and Certification for Payment, supported by AIA Document G703, Continuation Sheet. Certificate of Release of Liens shall be submitted with each pay application.

Add the following to Subparagraph 9.3.1:

Until Substantial Completion, the Owner will pay 95% of the amount due the Contractor on account of progress payments. If at 50% of the contractor's work, the work has been satisfactorily completed on schedule and with approval of the Owner, Engineer/ Architect, and written consent of the surety, further requirements for retainage will be waived only so long as the work continues to be completed satisfactorily and on schedule.

The full Contract retainage may be reinstated if the manner of completion of the Work and its progress do not remain satisfactory to the Owner and Engineer/ Architect, or if the Surety withholds its consent, or for other good and sufficient reasons

Add the following Clause 9.3.2.1 to Subparagraph 9.3.2:

9.3.2.1 Responsibility for such stored materials and equipment shall remain with the Contractor regardless of ownership title.

Paragraph 9.8 Substantial Completion:

Add the following sentence to Subparagraph 9.8.3:

The payment shall be sufficient to increase the total payments to 95% of the Contract Sum, less such amounts as the Engineer/ Architect shall determine for incomplete Work and unsettled claims.

Paragraph 9.11 Liquidated Damages:

Add the following Paragraph 9.11 to Article 9:

- 9.11 Liquidated Damages
- 9.11.1 The Contractor and the Contractor's surety's shall be liable for and shall pay the Owner the sum of <u>Two Hundred Fifty Dollars (\$250.00)</u>, herein stipulated as liquidated damages, for each calendar day of delay until the Work is substantially complete.

Paragraph 9.12 Final Completion:

Add the following Paragraph 9.12 to Article 9

9.12 Time for Completion of final inspection items after Substantial Completion shall be thirty (30) Days after final inspection list is received by the Contractor. After thirty (30) days, upon seven (7) days written notice, the Owner shall have the option to correct or conclude any and all final inspection items not completed by the Contractor to the satisfaction of the Engineer/ Architect and the Owner within thirty (30) days from the actual date of substantial completion by utilizing its own forces or hiring others. The cost of correcting such remaining final inspection items by the Owner or others shall be deducted from the final payment to the Contractor.

For each consecutive calendar day that the Work remains incomplete after the date established for Final Completion, the Owner will retain from compensation otherwise to be paid to the

Contractor the sum of <u>Two Hundred Fifty Dollars (\$250.00</u>). This amount is the minimum measure of damages the Owner will sustain by failure of the Contractor to complete all remedial work, correct deficient work, clean up the project and other miscellaneous tasks as required to complete all work specified. This amount is separate from the liquidated damages prescribed above under paragraph 9.11.

ARTICLE 11 INSURANCE AND BONDS

Paragraph 11.1 Contractor's Liability Insurance:

Modify Clause 11.1.1.1 as follows:

Delete the semicolon at the end of Clause 11.1.1.1 and add: ", including private entities performing Work at the site and exempt from the coverage on account of number of employees or occupation, which entities shall maintain voluntary compensation coverage at the same limits specified for mandatory coverage for the duration of the Project;".

Modify Clause 11.1.1.2 as follows:

Delete the semicolon at the end of Clause 11.1.1.2 and add: "or persons or entities excluded by statute from the requirements of Clause 11.1.1.1 but required by the Contract Documents to provide the insurance required by that Clause;".

To Subparagraph 11.1.1, add the following Clauses 11.1.1.9 and 11.1.1.10:

- .9) Liability Insurance shall include all major divisions of coverage and be on a comprehensive basis including:
 - 1. Premises Operations (including X, C and U coverages as applicable).
 - 2. Independent Contractors' Protective.
 - 3. Products and Completed Operations.
 - 4. Personal Injury Liability with Employment Exclusion deleted.
 - 5. Contractural, including specified provision for Contractor's obligation under Paragraph 3.18.
 - 6. Owned, non-owned and hired motor vehicles.
 - 7. Broad Form Property Damage including Completed Operations.
- .10) If the General Liability coverages are provided by a Commercial General Liability Policy on a claims-made basis, the policy date or Retroactive Date shall predate the Contract; the termination date of the policy or applicable extended reporting period shall be no earlier than the termination date of coverages required to be maintained after final payment, certified in accordance with Subparagraph 9.10.2.

To Subparagraph 11.1.2, add the following Clause 11.1.2.1:

11.1.2.1 The insurance required by Subparagraph 11.1.1 shall be written for not less than the following, or greater if required by law:

Worker	s' Compensation:		
a)	State	Statutory	
b)	Applicable Federal	Statutory	
c)	Employer's Liability	\$100,000	per Accident

1.

\$100,000Disease, Policy Limit\$100,000Disease, Each Employee

- d) Contractor must evidence worker's compensation as statutorily required for both all general contractor employees and all sub contractor employees for the duration of the project.
- 2. Comprehensive or Commercial General Liability (including Premises Operations; Independent Contractor's Protective; Products and Completed Operations; Broad Form Property Damage):

a)	Bodily Injury:	\$ 100,000 \$1,000,000	Each Occurrence Aggregate
b)	Property Damage:	\$ 100,000 \$ 300,000	Each Occurrence Aggregate

- c) Products and Complete Operations to be maintained for 1 year after final payment: \$1,000,000 Aggregate
- d) Property Damage Liability Insurance will provide X, C, and U coverage.
- e) Broad Form Property Damage Coverage shall include Completed Operations.
- f) Contractor must name **Onslow County** as named insured on general liability insurance for the duration of the project.
- g) Contractor must evidence general liability insurance for both all general contractor employees and all sub contractor employees for the duration of the project.
- 3. Contractual Liability:

a)	Bodily Injury:	\$ 100,000 \$1,000,000	Each Occurrence Aggregate
b)	Property Damage:	\$ 100,000 \$ 300,000	Each Occurrence Aggregate

4. Personal Injury, with Employment Exclusion deleted:

\$ 300,000 Aggregate

- 5. Business Automobile Liability (including owned, non- owned and hired vehicles):
 a) Bodily Injury: \$ 200,000 Each Person
 - \$ 500,000 Each Occurrence
 - b) Property Damage: \$ 100,000 Each Occurrence
 - c) Contractor must maintain automobile insurance for both property damage and personal injury for all vehicles which would be used in conjunction with the project.
- 6. If General Liability coverages are provided by a Commercial Liability policy, the:
 - a) General Aggregate shall be not less than \$1,000,000 and it shall apply, in total to this Project only.

- b) Fire Damage Limit shall be not less than \$100,000 on any one Fire.
- c) Medical Expense Limit shall be not less than \$5,000 on any one person.

7. Umbrella Excess Liability:\$1,000,000 over primary insurance
\$10,000 for self-insured hazards each occurrence.

To Subparagraph 11.1.3 add the following sentence:

If this insurance is written on the Comprehensive Liability policy form, the Certificates shall be AIA Document G-705, Certificate of Insurance. If this insurance is written on a Commercial General Liability policy form, ACORD form 25S will be acceptable.

Paragraph 11.3 Property Insurance

Modify Subparagraph 11.3.1 as follows:

11.3.1 In the first sentence, delete "Unless otherwise provided, the Owner..." and substitute "The Contractor...".

Add the following sentences:

Builder's risk insurance policy shall be required in the full amount of the Completed Value of the project with Onslow County.as the named insured entities on the policy.

If the Owner is damaged by the failure of the Contractor to maintain such insurance, then the Contractor shall bear all reasonable costs properly attributable thereto.

- 11.3.1.2 Delete Clause 11.3.1.2.
- 11.3.1.3 Delete Clause 11.3.1.3.

Delete Subparagraph 11.3.4.

Delete Subparagraph 11.3.6 and substitute the following:

11.3.6 Before an exposure to loss may occur, the Contractor shall file with the Owner, for each copy of the Construction Contract prepared, one certified copy of the policy or policies providing this Property Insurance coverage, each containing those endorsements specifically related to the Project. Each policy shall contain a provision that the policy will not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Contractor.

Modify Subparagraph 11.3.7 as follows:

11.3.7 Substitute "Contractor" for "Owner" at the end of the first sentence.

Modify Subparagraph 11.3.8 as follows:

11.3.8 Substitute "Contractor" for "Owner" as fiduciary; except that at the first reference to "Owner" in the first sentence, the word "this" should be substituted for "Owner's".

Modify Subparagraph 11.3.9 as follows:

11.3.9 Substitute "Contractor" for "Owner" each time the latter word appears.

Modify Subparagraph 11.3.10 as follows:

11.3.10 Substitute "Contractor" for "Owner" each time the latter word appears.

Paragraph 11.4 Performance Bond and Payment Bond

Delete Subparagraph 11.4.1 and substitute the following:

- 11.4.1 The Contractor shall furnish bonds covering faithful performance of the Contract and payment of obligations arising thereunder. Bonds may be obtained through the Contractor's usual source and the cost thereof shall be included in the Contract Sum. The amount of each bond shall be equal to 100% of the Contract Sum.
- 11.4.1.1 The Contractor shall deliver the required bonds to the Owner not later than three days following the date the Agreement is entered into, or if the Work is to be commenced prior thereto in response to a letter of intent, the Contractor shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished.
- 11.4.1.2 The Contractor shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix thereto a certified and current power of attorney.
- 11.4.1.3 The Contractor shall require the Surety and/or their Attorney-in-fact who executes the required bonds to provide along with the bonds the following:
 - 1. Complete information data sheet concerning the Company acting as the agent for the Surety, including:
 - a) Company name, street and mailing addresses, telephone and fax numbers.
 - b) Name of principle contact involved in administering these bonds.
 - 2. Complete information data sheet concerning the Surety, including:
 - a) Company name, street and mailing addresses, telephone and fax numbers.
 - b) Name of principle contact involved in administering these bonds.
 - 3. Information regarding any requirements or privileges the Surety has or believes it is due in the way of protections of its rights and privileges from activities of the Owner and its agents, including the Engineer/Architect and his consultants, in the performance of their normal functions or duties under this Contract.
- 11.4.1.4 The Surety shall be aware and acknowledge that payments made on this project will be made based on the appropriateness of percentages of work completed per categories indicated on the Contractor's Application for Payment. Further that the amounts authorized, certified or released by the Owner or its agents, including the Engineer and their consultants, are based on estimates of the percentages of work completed in each particular category based on that breakdown only. The appropriateness of the bid amount and these categories, established by the Contractor, is not the responsibility of the Owner and its agents, and the Owner and its agents therefore accept no responsibility for protecting the Surety from releases of funds on this Contract due to the inappropriateness of the bid or the breakdown categories established by the Contractor. In that regard note the following:
 - a) Inappropriateness of the bid amount refers to an amount bid which was not sufficient to accomplish the work.
 - b) Common practices such as "front end loading" of the request (assigning higher costs or heavier profit and overhead amounts to early work categories), "material heavy

loading" of the request (assigning higher costs or heavier profit and overhead amounts to material categories), and heavier than appropriate loading of "mobilization", "general condition" or "general requirements" categories cannot normally be detected by the Owner and its agents and are therefore not their responsibility.

11.4.1.5 The Surety shall be responsible to take an active roll in protecting its rights and privileges during the course of the Work of this Contract through more direct involvement with and management of its bonded Contractor, and establish and execute whatever protective measures it deems appropriate in protecting itself from what it deems inappropriate releases of funds on the Contract. These measures shall be the responsibility of the Surety and its agents exclusively and will not be the responsibility of the Owner or its agents.

ARTICLE 16 FEDERAL CONTRACTING REQUIREMENTS

Paragraph 16.1 Federal Funds:

16.1 If the source of funds for this contract is federal funds, the following federal provisions apply pursuant to 2 C.F.R. § 200.326 and 2 C.F.R. Part 200, Appendix II (as applicable):

Equal Employment Opportunity (41 C.F.R. Part 60); Davis-Bacon Act (40 U.S.C. 3141-3148); Copeland "Anti-Kickback" Act (40 U.S.C. 3145); Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708); Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387); Debarment and Suspension (Executive Orders 12549 and 12689); Byrd Anti-Lobbying Amendment (31 U.S.C. 1352); Procurement of Recovered Materials (2 C.F.R. § 200.322); and Record Retention Requirements (2 CFR § 200.324).

Paragraph 16.2 Uniform Guidance Attachment:

16.2 This *Uniform Guidance Attachment*, heretofore referenced as "*UG Attachment*" is incorporated into the Service Contract between Onslow County Schools and the Contractor. Capitalized terms not defined in this Attachment shall have the meanings assigned to such terms in the Contract. All references to the "Contractor" or "Company" or "Vendor" or "Provider" shall be deemed to mean the Contractor.

This Contract will be financed in whole or in part with federal funding. As such, federal laws, regulations, policies and related administrative practices apply to this Contract. The most recent of such federal requirements, including any amendments made after the execution of this Contract shall govern the Contract, unless the federal government determines otherwise. This **UG** Attachment identifies the federal requirements that may be applicable to this contract. The Contract is responsible for complying with all applicable provisions.

To the extent possible, the federal requirements contained in the most recent version of the Uniform Administrative Requirements for federal awards (Uniform Rules) codified at 2.C.F.R., Part 200, including any certifications and contractual provisions required by any federal statutes or regulation referenced therein to be included in this contract are deemed incorporated into this contract by reference and shall be incorporated into any subagreement or subcontract executed by the Contractor pursuant to its obligations under this Contract. The Contractor and its subcontractors, if any, hereby represent and covenant that they are have complied and shall comply in the future with the applicable provisions of the original contract

then in effect and with all applicable federal, state, and local laws, regulations, and rules and local policies and procedures, as amended from time to time, relating to Work to be performed under this contract.

Energy Conservation

The Contractor and Subcontractors agrees to comply with the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act, 42 U.S.C. § 6321, et seq.

Federal Water Pollution Control Act

For contracts in excess of \$150,000, the Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.

The Contractor agrees to report each violation to Onslow County Schools and understands and agrees that Onslow County Schools will, in turn, report each violation as required to assure notification to Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.

The Contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA."

Clean Air Act

For contracts in excess of \$150,000, the Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. and the Federal Water Pollution Act as amended (33 USC § 1251-1387).

The Contractor agrees to report any violation to Onslow County Schools immediately upon discovery. The Contractor understands and agrees that Onslow County Schools will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency (EPA) Regional Office. Contractor must include this requirement in all subcontracts that exceed \$50,000.

The Contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

Access to Records and Reports

The Contractor must maintain an acceptable cost accounting system. The Contractor agrees to provide Onslow County Schools, the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives' access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions.

The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

The Contractor agrees to provide the FEMA Administrator or his authorized representatives' access to construction or other work sites pertaining to the work being completed under the contract.

All Contractors and their successors, transferees, assignees, and subcontractors acknowledge and agree to comply with applicable provisions governing Department and FEMA access to records, accounts, documents, information, facilities, and staff.

No Obligation by Federal Government

Onslow County Schools and the Contractor acknowledge and agree that , notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying contract, absent the express written consent by the Federal Government, the Federal Government is not a party to this contract and shall not be subject to any obligations or liabilities to Onslow County Schools, the Contractor, or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying contract.

The Contractor agrees to include the above clause in each subcontract financed in whole or in part with federal assistance. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.

Program Fraud and False or Fraudulent Statements or Related Acts

The Contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the contractor's actions pertaining to this contract. Upon execution of the underlying contract, the Contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it makes, it may make, or causes to be made, pertaining to the underlying contract or the Federally assisted project for which this contract work is being performed. In addition to other penalties that may be applicable, the Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on the Contractor to the extent the Federal Government deems appropriate.

The Contractor also acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under a contract connected with a project that is financed in whole or in part with Federal assistance, the Government reserves the right to impose the penalties of 18 U.S.C. § 1001 and 49 U.S.C. § 5307(n)(1) on the Contractor, to the extent the Federal Government deems appropriate.

The Contractor agrees to include the above two clauses in each subcontract financed in whole or in part with Federal assistance. It is further agreed that the clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.

Changes

Any change in the contract cost, modification, change order, or constructive change must be allowable, allocable, within the scope of its funding, grant or cooperative agreement, and reasonable for the completion of project scope. All changes and/or amendments to the contract will be outlined in detail, formalized in writing, and signed by the authorized representative of each party. Contractor's failure to do so shall constitute a material breach of the contract.

Termination

Termination Without Cause. Onslow County Schools may terminate this Agreement at any time without cause by giving thirty (30) days written notice to the Contractor.

Termination for Default by Either Party. By giving written notice to the other party, either party may terminate this Agreement upon the occurrence of one or more of the following events:

The other party violates or fails to perform any covenant, provision, obligation, term or condition contained in this Agreement, provided that, unless otherwise stated in this Agreement, such failure or violation shall not be cause for termination if both of the following conditions are satisfied: (i) such default is reasonably susceptible to cure; and (ii) the other party cures such default within thirty (30) days of receipt of written notice of default from the non-defaulting party; or

The other party attempts to assign, terminate or cancel this Agreement contrary to the terms hereof; or

The other party ceases to do business as a going concern, makes an assignment for the benefit of creditors, admits in writing its inability to pay debts as they become due, files a petition in bankruptcy or has an involuntary bankruptcy petition filed against it (except in connection with a reorganization under which the business of such party is continued and performance of all its obligations under this Agreement shall continue), or if a receiver, trustee or liquidator is appointed for it or any substantial part of other party's assets or properties.

Any notice of default pursuant to this Section shall identify and state the party's intent to terminate this Agreement if the default is not cured within the specified period.

Additional Grounds for Default Termination by Onslow County Schools. By giving written notice to the Contractor, Onslow County Schools may also terminate this Agreement upon the occurrence of one or more of the following events (which shall each constitute grounds for termination without a cure period and without the occurrence of any of the other events of default previously listed):

The Contractor makes or allows to be made any material written misrepresentation or provides any materially misleading written information in connection with this Agreement, Contractor's Proposal, or any covenant, agreement, obligation, term or condition contained in this Agreement; or

The Contractor takes or fails to take any action which constitutes grounds for immediate termination under the terms of this Agreement, including but not limited to failure to obtain or maintain the insurance policies and endorsements as required by this Agreement, or failure to provide the proof of insurance as required by this Agreement.

Cancellation of Orders and Subcontracts. In the event this Agreement is terminated by Onslow County Schools for any reason prior to the end of the term, the Contractor shall upon termination immediately discontinue all service in connection with this Agreement and promptly cancel all existing orders and subcontracts, which are chargeable to this Agreement. As soon as practicable after receipt of notice of termination, the Contractor shall submit a statement to Onslow County Schools showing in detail the services performed under this Agreement to the date of termination.

No Effect on Taxes, Fees, Charges, or Reports. Any termination of the Agreement shall not relieve the Contractor of the obligation to pay any fees, taxes or other charges then due to Onslow County Schools, nor relieve the Contractor of the obligation to file any daily, monthly, quarterly or annual reports covering the period to termination nor relieve the Contractor from any claim for damages previously accrued or then accruing against the Contractor.

Obligations upon Expiration or Termination. Upon expiration or termination of this Agreement, the Contractor shall promptly (a) return to Onslow County Schools all computer programs, files, documentation, data, media, related material and any other recording devices, information, or compact discs that are owned by Onslow County Schools; (b) deliver to Onslow County Schools all Work Product; (c) allow Onslow County Schools or a new vendor access to the systems, software, infrastructure, or processes of the Contractor that are necessary to migrate the Services to a new vendor; and (d) refund to Onslow County Schools all pre-paid sums for Products or Services that have been cancelled and will not be delivered.

No Suspension. In the event that Onslow County Schools disputes in good faith an allegation of default by the Contractor, notwithstanding anything to the contrary in this Agreement, the Contractor agrees that it will not terminate this Agreement or suspend or limit the delivery of Products or Services or any warranties or repossess, disable or render unusable any Software supplied by the Contractor, unless (i) the parties agree in writing, or (ii) an order of a court of competent jurisdiction determines otherwise.

Authority to Terminate. Onslow County Schools Superintendent or their designee is authorized to terminate this Agreement on behalf of Onslow County Schools.

Audit. During the term of the Agreement and for a period of one (1) year after termination or expiration of this Agreement for any reason, Onslow County Schools shall have the right to audit, either itself or through a third party, all books and records (including but not limited to the technical records) and facilities of the Contractor necessary to evaluate Contractor's compliance with the terms and conditions of the Agreement or Onslow County Schools' payment obligations. Onslow County Schools shall pay its own expenses, relating to such audits, but shall not have to pay any expenses or additional costs of the Contractor. However, if non-compliance is found that would have cost Onslow County Schools in excess of \$5,000 but for the audit, then the Contractor shall be required to reimburse Onslow County Schools for the cost of the audit.

Remedies

Liquidated Damages: Onslow County Schools and the Contractor acknowledge and agree that Onslow County Schools may incur costs if the Contractor fails to meet the delivery times set forth in the ITB for the Products and Services. The parties further acknowledge and agree that: (a) Onslow County Schools may be damaged by such failures, including loss of goodwill and administrative costs; but that (b) the costs that Onslow County Schools might reasonably be anticipated to accrue as a result of such failures are difficult to ascertain due to their indefiniteness and uncertainty. Accordingly, the Contractor agrees to pay liquidated damages at the rates set forth in the ITB. The parties agree that the liquidated damages set forth in the ITB shall be Onslow County Schools' exclusive remedy for loss of goodwill and administrative costs, attributable to a failure by the Contractor to meet such delivery times, but shall not be the remedy for the cost to cover or other direct damages.

Right to Cover: If the Contractor fails to meet any completion date or resolution time set forth in this Agreement (including the Exhibits), and it fails to cure such default within one (1) business day after receiving written notice from Onslow County Schools of such failure, Onslow County Schools may take any of the following actions with or without terminating this Agreement, and in addition to and without limiting any other remedies it may have:

Employ such means as it may reasonably deem advisable and appropriate to perform itself or obtain the Services from a third party until the matter is resolved and the Contractor is again able to resume performance under this Agreement; and

Deduct any and all reasonable expenses incurred by Onslow County Schools in obtaining or performing the Services from any money then due or to become due the Contractor and, should

Onslow County Schools' reasonable cost of obtaining or performing the services exceed the amount due the Contractor, collect the difference from the Contractor.

Right to Withhold Payment. If the Contractor materially breaches any provision of this Agreement, Onslow County Schools shall have a right to withhold all payments due to the Contractor with respect to the services that are the subject of such breach until such breach has been fully cured.

Specific Performance and Injunctive Relief. The Contractor agrees that due to the potential impact on public health, monetary damages may not be an adequate remedy for the Contractor's failure to provide the Services required by this Agreement, and monetary damages may not be the equivalent of the performance of such obligation. Accordingly, the Contractor hereby agrees that Onslow County Schools may seek an order granting specific performance of such obligations of the Contractor in a court of competent jurisdiction within the State of North Carolina. The Contractor further consents to Onslow County Schools seeking injunctive relief (including a temporary restraining order) to assure performance in the event the Contractor breaches the Agreement in any material respect.

Setoff. Each party shall be entitled to setoff and deduct from any amounts owed to the other party pursuant to this Agreement all damages and expenses incurred as a result of the other party's breach of this Agreement, following any applicable cure periods, and provided such party has given notice of its intention to apply a setoff prior to making the payment deduction, together with documentary evidence demonstrating that such party has actually incurred the damages and/or expenses being setoff.

Other Remedies. Except as specifically set forth in the main body of this Agreement, the remedies set forth above shall be deemed cumulative and not exclusive and may be exercised successively or concurrently, in addition to any other available remedy

Debarment and Suspension

This contract is a covered transaction for purposes of 2 C.F.R. Part 180 and 2 C.F.R. Part. 3000. As such, the Contractor is required to verify that none of the contractor, its principals (defined at 2 C.F.R. § 180.995), or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R.§ 180.940) or disqualified (defined at 2 C.F.R. § 180.935).

The Contractor is required to comply with 2 C.F.R. Part 180, Subpart C and 2 C.F.R. pt. 3000, Subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into. By signing and submitting its bid or proposal, the bidder or proper certifies that:

This certification in this clause is a material representation of fact relied upon by Onslow County Schools. If it is later determined that the bidder or proposer knowingly rendered an erroneous certification, in addition to remedies available by Onslow County Schools, the federal government may pursue available remedies, including but not limited to suspension and/or debarment. The bidder or proposer agrees to comply with the requirements of 2 C.F.R. Part 180, Subpart C and 2 C.F.R. Part 3000, Subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions."

Equal Employment Opportunity

During the performance of this contract, the Contractor agrees as follows:

- 1. The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- 2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.
- 3. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- 4. The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, as amended by executive Order 11375, and with the rules, regulations, and relevant orders of the Secretary of Labor.
- 5. The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- 6. In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions as may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States

Davis-Bacon Requirements

1. Minimum Wages.

(i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalent thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period.

Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided* that the employer's payroll records accurately set forth the time spent in each classification and wage rates conformed under (1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can easily be seen by the workers.

(ii)(A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(1) The work to be performed by the classification requested is not performed by a classification in the wage determination;

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the Contractor, the laborers, or mechanics to be employed in the classification, or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii) (B) or (C) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program: *Provided* that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding.

The Sponsor shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of work, all or part of the wages required by the contract, the Sponsor may, after written notice to the Contractor, Sponsor, Applicant, or Owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and Basic Records.

(i) Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in 1(b) (2) (B) of the Davis-Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records that show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and that show the costs anticipated or the actual costs incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii)(A) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Sponsor if the agency is a party to the contract, but if the agency is not such a party, the Contractor will submit the payrolls to the applicant, Sponsor, or Owner, as the case may be, for transmission to the Sponsor. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (*e.g.* the last four digits of

the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division Web site at *www.dol.gov/whd/forms/wh347instr.htm* or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker and shall provide them upon request to the Sponsor if the agency is a party to the contract, but if the agency is not such a party, the Contractor will submit them to the applicant, sponsor, or Owner, as the case may be, for transmission to the Sponsor, the Contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, Sponsor, or Owner).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) The payroll for the payroll period contains the information required to be provided under 29 CFR § 5.5(a) (3) (ii), the appropriate information is being maintained under 29 CFR § 5.5 (a) (3) (i), and that such information is correct and complete;

(2) Each laborer and mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations 29 CFR Part 3;

(3) Each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

(iii) The Contractor or subcontractor shall make the records required under paragraph (3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the sponsor, the Sponsor, or the Department of Labor and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the Contractor, Sponsor, applicant, or Owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and Trainees.

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary

employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination that provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate that is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal Employment Opportunity. The utilization of apprentices, trainees, and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

5. Compliance with Copeland Act Requirements.

The Contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract.

6. Subcontracts.

The Contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR Part 5.5(a)(1) through (10) and such other clauses as the Sponsor may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR Part 5.5.

7. Contract Termination: Debarment.

A breach of the contract clauses in paragraph 1 through 10 of this section may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act Requirements.

All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes Concerning Labor Standards.

Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the Contractor (and any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of Eligibility.

(i) By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 USC 1001

Copeland "Anti-Kickback" Act

Contractor. The Contractor must comply with the requirements of the Copeland "Anti-Kickback" Act (18 U.S.C. § 874 and 40 U.S.C. § 3145) as supplemented by Department of Labor regulation 29 C.F.R. Part 3 *as may be applicable,* which are incorporated by reference into this contract.

Contractor and subcontractors are prohibited from inducing, by any means, any person employed on the project to give up any part of the compensation to which the employee is entitled. The Contractor and each Subcontractor must submit to the Owner, a weekly statement on the wages paid to each employee performing on covered work during the prior week

Subcontracts. The Contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as FEMA may require and also a clause requiring the subcontractors to include these clauses in

any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.

Breach. A breach of the contract clauses above may be grounds for termination of the contract, and for debarment as a Contractor and subcontractor as provided in 29 C.F.R. § 5.12."

Contract Work Hours and Safety Standards Act (all contracts in excess of \$100,000)

- 1. Overtime requirements. No Contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- 2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.
- <u>3.</u> <u>Subcontractors</u>. The Contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this.section."

Rights to Inventions Made Under a Contract or Agreement

Patent and Rights in Data

CONTRACTS INVOLVING EXPERIMENTAL, DEVELOPMENTAL, OR RESEARCH WORK.

Rights in Data - The following requirements apply to each contract involving experimental, developmental or research work:

The term "subject data" used in this clause means recorded information, whether or not copyrighted, that is delivered or specified to be delivered under the contract. The term includes graphic or pictorial delineation in media such as drawings or photographs; text in specifications or related performance or design-type documents; machine forms such as punched cards, magnetic tape, or computer memory printouts; and information retained in computer memory. Examples include, but are not limited to: computer software, engineering drawings and associated lists, specifications, standards, process sheets, manuals, technical reports, catalog item identifications, and related information. The term "subject data" does not include financial reports, cost analyses, and similar information incidental to contract administration.

The following restrictions apply to all subject data first produced in the performance of the contract to which this Attachment has been added:

Except for its own internal use, the Purchaser or Contractor may not publish or reproduce subject data in whole or in part, or in any manner or form, nor may the Purchaser or Contractor authorize others to do so, without the written consent of the Federal Government, until such time as the Federal Government may have either released or approved the release of such data to the public; this restriction on publication, however, does not apply to any contract with an academic institution.

In accordance with 49 C.F.R. § 18.34 and 49 C.F.R. § 19.36, the Federal Government reserves a royaltyfree, non-exclusive and irrevocable license to reproduce, publish, or otherwise use, and to authorize others to use, for "Federal Government purposes," any subject data or copyright described in subsections (2)(b)(i) and (2)(b)(ii) of this clause below. As used in the previous sentence, "for Federal Government purposes," means use only for the direct purposes of the Federal Government. Without the copyright owner's consent, the Federal Government may not extend its Federal license to any other party.

Any subject data developed under that contract, whether or not a copyright has been obtained; and

Any rights of copyright purchased by the Purchaser or Contractor using Federal assistance in whole or in part.

When federal assistance is awarded for experimental, developmental, or research work, it is the general intention to increase knowledge available to the public rather than to restrict the benefits resulting from the work to participants in that work. Therefore, unless determined otherwise, the Purchaser and the Contractor performing experimental, developmental, or research work required by the underlying contract to which this Attachment is added agree to make available to the public, either the license in the copyright to any subject data developed in the course of that contract or a copy of the subject data first produced under the contract for which a copyright has not been obtained. If the experimental, developmental, or research work, which is the subject of the underlying contract, is not completed for any reason whatsoever, all data developed under that contract shall become subject data as defined in subsection (a) of this clause and shall be delivered as the Federal Government may direct. This subsection (c), however, does not apply to adaptations of automatic data processing equipment or programs for the Purchaser or Contractor's use whose costs are financed in whole or in part with Federal assistance.

Unless prohibited by state law, upon request by the Federal Government, the Purchaser and the Contractor agree to indemnify, save, and hold harmless the Federal Government, its officers, agents, and employees acting within the scope of their official duties against any liability, including costs and expenses, resulting from any willful or intentional violation by the Purchaser or Contractor of proprietary rights, copyrights, or right of privacy, arising out of the publication, translation, reproduction, delivery, use, or disposition of any data furnished under that contract. Neither the Purchaser nor the Contractor shall be required to indemnify the Federal Government for any such liability arising out of the wrongful act of any employee, official, or agents of the Federal Government.

Nothing contained in this clause regarding rights in data shall imply a license to the Federal Government under any patent or be construed as affecting the scope of any license or other right otherwise granted to the Federal Government under any patent.

Data developed by the Purchaser or Contractor and financed entirely without the use of Federal assistance that has been incorporated into work required by the underlying contract to which this Attachment has been added is exempt from the requirements of subsections (b), (c), and (d) of this clause, provided that the Purchaser or Contractor identifies that data in writing at the time of delivery of the contract work.

Unless determined otherwise, the Contractor agrees to include these requirements in each subcontract for experimental, developmental, or research work financed in whole or in part with Federal assistance.

Unless the Federal Government later makes a contrary determination in writing, irrespective of the Contractor's status (i.e., a large business, small business, state government or state instrumentality, local government, nonprofit organization, institution of higher education, individual, etc.), the Purchaser and the Contractor agree to take the necessary actions to provide those rights in that invention due the Federal

Government as described in U.S. Department of Commerce regulations, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," 37 C.F.R. Part 401.

The Contractor also agrees to include these requirements in each subcontract for experimental, developmental, or research work financed in whole or in part with Federal assistance.

Patent Rights - The following requirements apply to each contract involving experimental, developmental, or research work:

<u>General</u> - If any invention, improvement, or discovery is conceived or first actually reduced to practice in the course of or under the contract to which this Attachment has been added, and that invention, improvement, or discovery is patentable under the laws of the United States of America or any foreign country, the Purchaser and Contractor agree to take actions necessary to provide immediate notice and a detailed report to the party at a higher tier.

Unless the Federal Government later makes a contrary determination in writing, irrespective of the Contractor's status (a large business, small business, state government or state instrumentality, local government, nonprofit organization, institution of higher education, individual), the Purchaser and the Contractor agree to take the necessary actions to provide those rights in that invention due the Federal Government as described in U.S. Department of Commerce regulations, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," 37 C.F.R. Part 401.

The Contractor also agrees to include the requirements of this clause in each subcontract for experimental, developmental, or research work financed in whole or in part with Federal assistance.

Procurement of Recovered Materials

Contractor and subcontractor agree to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, and the regulatory provisions of 40 CFR Part 247. In the performance of this contract and to the extent practicable, the Contractor and subcontractors are to use products containing the highest percentage of recovered materials for items designated by the Environmental Protection Agency (EPA) under 40 CFR Part 247 whenever:

- 1. The contract requires procurement of \$10,000 or more of a designated item during the fiscal year; or
- 2. The contractor has procured \$10,000 or more of a designated item using Federal funding during the previous fiscal year.

Section 6002(c) establishes exceptions to the preferences for recovery EPA-Designed products if the contractor can demonstrate the item is:

- Not reasonably available within a timeframe providing for compliance with the contract performance schedule;
- Fails to meet reasonable contract performance requirements; or
- Is only available at an unreasonable price.

Information about this requirement, along with the list of EPA- designate items, is available at EPA's Comprehensive Procurement Guidelines web site, <u>https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program</u>."

DHS Seal, Logo, and Flags

The Contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without pre-approval by the specific federal agency.

END OF SECTION 00 73 00

SECTION 01 21 00 - ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

C.

- A. This Section includes administrative and procedural requirements governing allowances.
 - 1. Certain items are specified in the Contract Documents by allowances. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation. If necessary, additional requirements will be issued by Change Order.
 - 2. The Contractor shall include in the Contract Sum all allowances states in the Contract Documents. The Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit and other expenses contemplated for the original allowance shall be included in the Contract Sum and not in the allowance, unless indicated otherwise herein. Coordinate allowance work with related work to ensure that each selection in completely integrated and interfaced with related work. Include all allowance amounts as a separate line item amount on each application for payment.
- B. Types of allowances include the following:
 - 1. Unit-cost allowances.
 - 2. Quantity allowances.
 - 3. Contingency Allowances.
 - Related Sections include the following:
 - 1. Division 01 Section "Contract Modification Procedures" for procedures for submitting and handling Change Orders for allowances.
 - 2. Division 01 Section "Unit Prices" for procedures for using unit prices as bases to establish allowance value.
 - 3. Divisions 02 through 49 Sections for items of Work covered by allowances.
 - 4. Division 31 Section 'Earth Moving for Sites" for procedures for measurements and payment for Unsuitable Soil Replacement.

1.3 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise the Engineer of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
- B. At Engineer's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work. **Provide a minimum of three (3) proposals for each allowance** for use in making final selections, unless instructed otherwise by the Engineer. Furnish proposals in time so as not to delay the project. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Engineer from the designated supplier.

1.4 SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.
- B. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- C. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.5 COORDINATION

A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.6 ALLOWANCES

- A. Refer to Schedule of Allowances for Amounts and Quantities
- B. Quantity & Lump Sum Allowances
 - 1. Allowance shall include cost to Contractor of specific products and materials ordered by Owner under allowance and shall include taxes, freight, and delivery to Project site.
 - 2. Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner under allowance shall be included as part of the Contract Sum and not part of the allowance.
- C. Unit-Cost Allowances
 - 1. Each change order amount for unit-cost type allowances shall be based solely on the difference between the actual unit purchase amount and the unit allowance, multiplied by the final measure or count of work-in-place, with reasonable allowances, where applicable, for cutting losses, tolerances, mixing wastes, normal product imperfections and similar margins.
 - 2. Include installation costs in the purchase amount only where indicated as a part of the allowance. When requested, prepare explanations and documentation to substantiate the margins as claimed. Prepare and submit substantiation of a change in the scope of work (if any) claimed in the change orders related to unit-cost type allowances. The Owner reserves the right to establish the actual quantity of work- in-place by an independent quantity survey, measure or count.
 - 3. Unit-Cost Allowances shall be based on the Unit Price value established.
- D. Contingency Allowances
 - 1. Use the contingency allowance only as directed by Engineer for Owner's purposes and only by Change Orders that indicate amounts to be charged to the allowance.
 - 2. Allowances for overhead and profit shall be provided within the contract price and not included as part of any change order till the allowance amount has been spent.

1.7 CHANGE ORDER MARK-UP

- A. Except as otherwise indicated, comply with provisions of General Conditions and other requirements stated in this section. For each allowance, Contractor's claims for increased costs (for either purchase order amount or Contractor's handling, labor, installation, overhead, and profit), because of a change in scope or nature of the allowance work as described in contract documents, must be submitted within 60 days of initial change order authorizing work to proceed on that allowance; otherwise, such claims will be rejected.
- B. As a procedural restriction no mark-up (increase or decrease) shall be included in the change order amount for Contractor's increase or decrease in handling, labor, installation, overhead or profit unless purchase order amount varies by more than 15% from allowance amount.

1.8 UNUSED MATERIALS

- A. Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.
 - 1. If requested by Engineer, prepare unused material for storage by Owner when it is not economically practical to return the material for credit. If directed by Engineer, deliver unused material to Owner's storage space. Otherwise, disposal of unused material is Contractor's responsibility.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

- A. <u>Allowance No. UP/A-1</u>: Unsuitable soils removal and disposal <u>off-site</u>.
 - 1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.
 - 2. Unit of measurement: cubic yard in place prior to excavation.
 - 3. Include the following in the unit price:
 - a. Excavation, loading, transport and disposal of all materials.
 - b. Overhead and profit.
 - c. Allowance shall be based on the unit price quoted in the Proposal.
 - 4. Include all other related costs in the contract sum.
 - 5. Method of measurement: Quantities will be verified by a soils and materials engineer employed by the Owner.
 - 6. Allowance Quantity: 1000-cy.

B. <u>Allowance No. UP/A-2</u>: Rock removal and disposal <u>off-site</u>.

- 1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.
- 2. Unit of measurement: cubic yard in place prior to excavation.
- 3. Include the following in the unit price:
 - a. Excavation, loading, transport, placement and compaction of all materials to a location to be determined on the school tract.
 - b. Overhead and profit.
 - c. Allowance shall be based on the unit price quoted in the Proposal.

- 4. Include all other related costs in the contract sum.
- 5. Method of measurement: Quantities will be verified by a soils and materials engineer employed by the Owner.
- 6. Allowance Quantity: 100-cy.
- C. <u>Allowance No. UP/A-3</u>: Replacement of authorized excavation of unsuitable soils or rock with <u>off-site</u> imported fill material.
 - 1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.
 - 2. Unit of measurement: cubic yard, compacted in place.
 - 3. Include the following in the unit price:
 - a. Suitable soil materials from Contractor's off-site source.
 - b. Excavation, loading, transport, placement, moisture control and compaction of suitable soil materials.
 - c. Overhead and profit.
 - d. Allowance shall be based on the unit price quoted in the Proposal.
 - 4. Include all other related costs in the contract sum. Unit price shall not include the excavation of unsuitable soil or rock.
 - 5. Method of measurement: Quantities will be verified by a soils and materials engineer employed by the Owner.
 - 6. Allowance Quantity: 500-cy.
- D. <u>Allowance No. UP/A-4</u>: Replacement of authorized excavation of unsuitable soils or rock with Aggregate Base Course (ABC) stone material.
 - 1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.
 - 2. Unit of measurement: cubic yard, compacted in place.
 - 3. Include the following in the unit price:
 - a. ABC materials from Contractor's off-site source.
 - b. Excavation, loading, transport, placement, moisture control and compaction of materials.
 - c. Overhead and profit.
 - d. Allowance shall be based on the unit price quoted in the Proposal.
 - 4. Include all other related costs in the contract sum. Unit price shall not include the excavation of unsuitable soil or rock.
 - 5. Method of measurement: Quantities will be verified by a soils and materials engineer employed by the Owner.
 - 6. Allowance Quantity: 500-cy.
- E. <u>Allowance No. UP/A-5</u>: Geo-Grid in place.
 - 1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.
 - 2. Unit of measurement: square yard of ground surface covered. Overlap, waste or excess shall not be included in payment measurements.
 - 3. Include the following in the unit price:
 - a. Materials and transport to site.
 - b. Unloading, handling, and placement.
 - c. Overhead and profit.
 - d. Allowance shall be based on the unit price quoted in the Proposal.
 - 4. Include all other related costs in the contract sum.
 - 5. Method of measurement: Quantities will be verified by a soils and materials engineer employed by the Owner.
 - 6. Allowance Quantity: 100-sy.

- F. <u>Allowance No. UP/A-6</u>: Underground Sanitary Line.
 - 1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.
 - 2. Unit of measurement: linear feet of pipe installed as needed to connect to existing sanitary line in excess of scope as indicated on Drawings. Overlap, waste or excess shall not be included in payment measurements.
 - 3. Include the following in the unit price:
 - a. Materials and transport to site.
 - b. Include (1) cleanout per 75-If of sanitary line
 - c. Unloading, handling, and placement.
 - d. Overhead and profit.
 - e. Allowance shall be based on the unit price quoted in the Proposal.
 - 4. Include all other related costs in the contract sum.
 - 5. Method of measurement: Length will be verified by Architect and/or Engineer.
 - 6. Allowance Quantity: 250-lf.
- G <u>Allowance No. UP/A-7</u>: Floor Leveling Compound.
 - 1. Purpose: Include sufficient Floor Leveling Compound to provide ¼" thickness leveling for the existing building as an Allowance in the Base Bid. Note that this Allowance is in addition to routine leveling required for floor finishes. Allowance shall be based on the unit price quoted in the Proposal.
 - 2. Unit of measurement: Square Foot.
 - 3. Allowance Quantity: 5,000-sf.
- H <u>Allowance No. UP/A-8</u>: Topical Moisture Mitigation System.
 - 1. Purpose: Include sufficient moisture vapor mitigation system to be applied to the building's concrete slab as an Allowance in the Base Bid where moisture emissions exceed 5 lbs/1000sf in 24 hours. Allowance shall be based on the unit price quoted in the Proposal.
 - 2. Unit of measurement: Square Foot.
 - 3. Allowance Quantity: 5,000-sf.
- I <u>Allowance No. UP/A-9</u>: Abrasive Blast Floor Preparation.
 - 1. Purpose: Include sufficient Abrasive Blast Floor Preparation of the existing building as an Allowance in the Base Bid. Note that this Allowance is in addition to the routine floor preparation required for the floor finishes. Allowance shall be based on the unit price quoted in the Proposal.
 - 2. Unit of measurement: Square Foot.
 - 3. Allowance Quantity: 5,000-sf.
- J <u>Allowance No. A-10</u>: Access Control, Intercom, Voice/Data, Cameras, and Security System.
 - 1. Allow a lump sum for purchase and installation of a complete Access Control and Security Systems, as required by the Owner for connections between existing system and new addition and renovations, and as defined by and specified in contract documents.
 - 3. Lump Sum: \$55,000.00
- K. <u>Allowance No. 11</u>: Contingency
 - 1. Contingency allowance shall be provided as follows and the price shall be adjusted based on the actual cost of subcontracts, materials, and labor, excluding overhead and profit. Allowances for overhead and profit shall be provided within the contract price. If there is unused allowance at the conclusion of the project, the allowance plus 5% profit will be deducted from the contract.
 - 2. Contingency: \$200,00.00

END OF SECTION 01 21 00

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. The cost or credit for each alternate is the net addition to the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
- B. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- C. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- D. Execute accepted alternates under the same conditions as other work of the Contract.
- E. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. <u>Alternate No. 1; Owner Preferred Manufacturer(s)</u>

Include the amount to be added to the Base Bid for providing all labor and materials indicated and required to accomplish Work involved in providing the Owner Preferred Manufacturers Listed Below for the indicated work. Base Bid to include one of the following or comparable product of any of the manufacturers listed in the individual section.

- **1-1.** HVAC Wall Unit: Manufacturer Bard as stated in the Drawings and Specifications.
- **1-2.** Electrical Switches: Manufacturer Square D as stated in the Drawings and Specifications.
- 1-3. Water Cooler with Bottle Filler: Manufacturer Elkay as stated in the Drawings and Specifications.
- 1-4. Thermostat: Manufacturer Venstar Explorer Smart Stat as stated in the Drawings and Specifications.
- 1-5. Door Hardware
 - a. Door Locks: Manufacturer Schlage as stated in the Drawings and Specifications.
 - b. Exit Devices: Manufacturer Von Duprin as stated in the Drawings and Specifications.
 - c. Closers: Manufacturer LCN as stated in the Drawings and Specifications.

B. <u>Alternate No. 2; ESSER Scope of Work</u>

State the amount to be added to the Base Bid for providing all labor and materials indicated and required for all work as described below and per the plans and specifications and as shown and noted in the Contract Documents.

- **2-1.** Mechanical and Associated Electrical Upgrades
 - a. Base Bid: No upgrades to the existing mechanical or electrical system. All new electrical equipment to be connected to existing system in place.
 - b. Alternate: Mechanical and associated electrical upgrades, including all removal and replacement, as indicated in the Construction Documents.

2-2. NOT USED

2-3. NOT USED

- 2-4. Door Replacement and Transom Infill
 - a. Base Bid: Existing doors and transoms to remain in place, except where indicated in the Construction Documents to accommodate the reconfiguration for the new Restrooms, Janitor Closet, and Teacher's Breakroom.
 - b. Alternate: Removal and replacement of all remaining interior and exterior existing doors and infill of all interior transom windows as indicated in the Construction Documents.

2-5. Window Replacement

- a. Base Bid: All existing exterior windows to remain in place.
- b. Alternate: Removal and replacement of all existing exterior windows as indicated in the Construction Documents.

C. <u>Alternate No. 3; Bus Parking</u>

State the amount to be added to the Base Bid for providing all labor and materials indicated and required to complete the full scope of work related to the Bus Parking Lot as described below, as well as site work per the plans and specifications and as shown and noted in the Contract Documents.

- **3-1.** Parking Lot, Drive, and Associated Sidewalks
 - a. Base Bid: No work to be performed.
 - b. Alternate: All work associated with the bus parking lot, drive, and associated sidewalks as indicated in the Construction Documents.
- **3-2.** Canopy and Lighting
 - a. Base Bid: No work to be performed.

b. Alternate: All work associated with the installation of the canopy and lighting as indicated in the Construction Documents.

D. Alternate No. 4; Parent/Student Queue

State the amount to be added to the Base Bid for providing all labor and materials indicated and required to repave the existing northeast parking lot to install the new parent/student queue and all associated sidewalks and site work as per the plans and specifications and as shown and noted in the Contract Documents.

E. <u>Alternate No. 5; Ceilings, Lighting, and Electrical Upgrades</u>

- 1. Base Bid: Existing ceilings, lighting, controls, and electrical to remain in place, except where indicated in the Construction Documents in the Restrooms, Janitor Closet, and Teacher's Breakroom.
- 2. Alternate: Remove and replace all remaining existing ceilings, lighting, controls, and electrical as indicated in the Construction Documents

END OF SECTION 01 23 00

SECTION 054000 - COLD-FORMED METAL FRAMING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Exterior non-load-bearing curtain wall and soffit framing.
 - 2. Interior non-load bearing partition framing.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of cold-formed steel framing product and accessory.
- B. Shop Drawings:
 - 1. Include layout, spacings, sizes, thicknesses, and types of cold-formed steel framing; fabrication; and fastening and anchorage details, including mechanical fasteners.
 - 2. Indicate reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.
 - 3. Delegated Design: For cold-formed metal framing indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional structural engineer responsible for their preparation. Engineer to be licensed in the state of North Carolina.

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For testing agency.
- B. Welding certificates.
- C. Product test reports.
- D. Research reports.

1.4 QUALITY ASSURANCE

- A. Engineering Responsibility: Preparation of Shop Drawings, design calculations and other structural data by a qualified professional engineer.
- B. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of cold-formed metal framing that are similar to those indicated for this Project in material, design, and extent.
- C. Product Tests: Mill certificates or data from a qualified independent testing agency.
- D. Welding Qualifications: Qualify procedures and personnel according to AWS D1.3/D1.3M, "Structural Welding Code Sheet Steel."

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following
 - 1. AllSteel & Gypsum Products, Inc.
 - 2. California Expanded Metal Products Company.
 - 3. ClarkWestern Building Systems, Inc.
 - 4. Consolidated Fabricators Corp.; Building Products Division.
 - 5. Craco Mfg., Inc.
 - 6. Custom Stud Inc.
 - 7. Design Shapes in Steel.
 - 8. Dietrich Metal Framing; a Worthington Industries company.
 - 9. Formetal Co. Inc. (The).
 - 10. MarinoWARE.
 - 11. MBA Building Supplies, Inc.
 - 12. Nuconsteel; a Nucor Company.
 - 13. Olmar Supply, Inc.
 - 14. Quail Run Building Materials, Inc.
 - 15. SCAFCO Corporation.
 - 16. Southeastern Stud & Components, Inc.
 - 17. State Building Products, Inc.
 - 18. Steel Construction Systems.
 - 19. Steel Network, Inc. (The).
 - 20. Steel Structural Systems.
 - 21. Steeler, Inc.
 - 22. Super Stud Building Products, Inc.
 - 23. Telling Industries, LLC.
 - 24. United Metal Products, Inc.
 - 25. United Steel Manufacturing.

2.2 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide cold-formed metal framing capable of withstanding design loads within limits and under conditions indicated.
 - 1. Design Loads: NC Building Code
 - 2. Deflection Limits: Design framing systems to withstand design loads without deflections greater than the following:
 - a. Exterior non-load bearing framing: Horizontal deflection of 1/600 of the wall height
 - b. Interior non-load bearing partition framing: Horizontal deflection of 1/360 of the wall height
- B. AISI Specifications and Standards: Unless more stringent requirements are indicated, comply with AISI S100 and AISI S200.

2.3 COLD-FORMED STEEL FRAMING, GENERAL

- A. Steel Sheet: ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of grade and coating weight as follows:
 - 1. Grade: As required by structural performance
 - 2. Coating: G90
- B. Steel Sheet for Vertical Deflection Clips: ASTM A 653/A 653M, structural steel, zinc coated, of grade and coating as follows:
 - 1. Grade: As required by structural performance.
 - 2. Coating: G90.

2.4 EXTERIOR NON-LOAD-BEARING WALL FRAMING

- A. Steel Studs: Manufacturer's standard C-shaped steel studs, of web depths indicated, punched, with stiffened flanges, and as follows:
 - 1. Minimum Base-Metal Thickness: 0.0538 inch
 - 2. Flange Width: 1-5/8 inches
- B. Steel Track: Manufacturer's standard U-shaped steel track, of web depths indicated, unpunched, with unstiffened flanges, and matching minimum base-metal thickness of steel studs.
- C. Vertical Deflection Clips: Manufacturer's standard bypass or head clips, capable of accommodating upward and downward vertical displacement of primary structure through positive mechanical attachment to stud web.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. AllSteel & Gypsum Products, Inc.
 - b. ClarkWestern Building Systems, Inc.
 - c. Dietrich Metal Framing; a Worthington Industries company.
 - d. MarinoWARE.
 - e. SCAFCO Corporation.
 - f. Steel Network, Inc. (The).
- D. Single Deflection Track: Manufacturer's single, deep-leg, U-shaped steel track; unpunched, with unstiffened flanges, of web depth to contain studs while allowing free vertical movement, with flanges designed to support horizontal loads and transfer them to the primary structure.
- E. Double Deflection Tracks: Manufacturer's double, deep-leg, U-shaped steel tracks, consisting of nested inner and outer tracks; unpunched, with unstiffened flanges.

2.5 FRAMING ACCESSORIES

A. Fabricate steel-framing accessories from steel sheet, ASTM A 1003/A 1003M, Structural Grade, Type H, metallic coated, of same grade and coating weight used for framing members.

B. Provide accessories of manufacturer's standard thickness and configuration.

2.6 ANCHORS, CLIPS, AND FASTENERS

- A. Steel Shapes and Clips: ASTM A 36/A 36M, zinc coated by hot-dip process according to ASTM A 123/A 123M.
- B. Anchor Bolts: ASTM F 1554, Grade 36 or Grade 55
- C. Expansion Anchors: Fabricated from corrosion-resistant materials, with allowable load or strength design capacities calculated according to ICC-ES AC193 and ACI 318 greater than or equal to the design load, as determined by testing per ASTM E 488 conducted by a qualified testing agency.
- D. Power-Actuated Anchors: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with allowable load capacities calculated according to ICC-ES AC70, greater than or equal to the design load, as determined by testing per ASTM E 1190 conducted by a qualified testing agency.
- E. Mechanical Fasteners: ASTM C 1513, corrosion-resistant-coated, self-drilling, self-tapping, steel drill screws.
 - 1. Head Type: Low-profile head beneath sheathing, manufacturer's standard elsewhere.

2.7 MISCELLANEOUS MATERIALS

- A. Galvanizing Repair Paint: SSPC-Paint 20 or MIL-P-21035B
- B. Cement Grout: Portland cement, ASTM C 150, Type I; and clean, natural sand, ASTM C 404. Mix at ratio of 1 part cement to 2-1/2 parts sand, by volume, with minimum water required for placement and hydration.
- C. Nonmetallic, Nonshrink Grout: Premixed, nonmetallic, noncorrosive, non-staining grout containing selected silica sands, portland cement, shrinkage-compensating agents, and plasticizing and water-reducing agents, complying with ASTM C 1107/C 1107M, with fluid consistency and 30-minute working time.
- D. Shims: Load bearing, high-density multi-monomer plastic, and non-leaching; or of cold-formed steel of same grade and coating as framing members supported by shims.
- E. Sealer Gaskets: Closed-cell neoprene foam, 1/4 inch thick, selected from manufacturer's standard widths to match width of bottom track or rim track members.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine supporting substrates and abutting structural framing for compliance with requirements for installation tolerance and other conditions affecting performance.

3.2 PREPARATION

A. Install sealer gaskets at the underside of wall bottom track or rim track and at the top of foundation wall or slab at stud or joist locations.

3.3 INSTALLATION, GENERAL

- A. Cold-formed steel framing may be shop or field fabricated for installation, or it may be field assembled.
- B. Install cold-formed steel framing according to AISI S200 and to manufacturer's written instructions unless more stringent requirements are indicated.
- C. Install cold-formed steel framing and accessories plumb, square, and true to line, and with connections securely fastened.
- D. Install framing members in one-piece lengths.
- E. Install temporary bracing and supports to secure framing and support loads comparable in intensity to those for which structure was designed. Maintain braces and supports in place, undisturbed, until entire integrated supporting structure has been completed and permanent connections to framing are secured.
- F. Do not bridge building expansion joints with cold-formed steel framing. Independently frame both sides of joints.
- G. Install insulation, specified in Division 07 Section "Thermal Insulation," in built-up exterior framing members, such as headers, sills, boxed joists, and multiple studs at openings, that are inaccessible on completion of framing work.
- H. Fasten hole reinforcing plate over web penetrations that exceed size of manufacturer's approved or standard punched openings.
- I. Erection Tolerances: Install cold-formed steel framing level, plumb, and true to line to a maximum allowable tolerance variation of 1/8 inch in 10 feet and as follows:
 - 1. Space individual framing members no more than plus or minus 1/8 inch from plan location. Cumulative error shall not exceed minimum fastening requirements of sheathing or other finishing materials.

3.4 EXTERIOR NON-LOAD-BEARING WALL INSTALLATION

- A. Install continuous tracks sized to match studs. Align tracks accurately and securely anchor to supporting structure as indicated.
- B. Fasten both flanges of studs to top and bottom track unless otherwise indicated. Space studs as follows:
 - 1. Stud Spacing: As required by design, 16 inches
- C. Set studs plumb, except as needed for diagonal bracing or required for non-plumb walls or warped surfaces and similar requirements.

- D. Isolate non-load-bearing steel framing from building structure to prevent transfer of vertical loads while providing lateral support.
 - 1. Connect vertical deflection clips to infill studs and anchor to building structure.
- E. Install horizontal bridging in wall studs, spaced vertically in rows indicated on Shop Drawings but not more than 48 inches apart. Fasten at each stud intersection.
 - 1. Bridging: Cold-rolled steel channel, welded or mechanically fastened to webs of punched studs.
 - 2. Bridging: Combination of flat, taut, steel sheet straps of width and thickness indicated and studtrack solid blocking of width and thickness to match studs. Fasten flat straps to stud flanges and secure solid blocking to stud webs or flanges.
 - 3. Bridging: Proprietary bridging bars installed according to manufacturer's written instructions.
- F. Install miscellaneous framing and connections, including stud kickers, web stiffeners, clip angles, continuous angles, anchors, and fasteners, to provide a complete and stable wall-framing system.

3.5 FIELD QUALITY CONTROL

- A. Testing: Owner will engage a qualified independent testing and inspecting agency to perform field tests and inspections and prepare test reports.
- B. Field and shop welds will be subject to testing and inspecting.
- C. Testing agency will report test results promptly and in writing to Contractor and Architect.
- D. Remove and replace work where test results indicate that it does not comply with specified requirements.
- E. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.6 REPAIRS AND PROTECTION

- A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on fabricated and installed coldformed steel framing with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.
- B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer that ensure that cold-formed steel framing is without damage or deterioration at time of Substantial Completion.

END OF SECTION 054000

SECTION 09 29 00 - GYPSUM BOARD

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Interior gypsum board
 - 2. Exterior sheathing
 - 3. Cement board panels.
 - 4. Interior wall and ceiling framing
 - 5. Reveal and Trim Moldings
- B. Related Sections include the following:
 - 1. Division 06 Section "Rough Carpentry" for wood framing and furring that supports gypsum board.
 - 2. Division 07 Section "Thermal Insulation" for insulation and vapor retarders installed in assemblies that incorporate gypsum board.
 - 3. Division 09 Section "Tiling" for cementitious backer units installed as substrates for ceramic tile.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

1.4 QUALITY ASSURANCE

- A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.
- B. Fire-Test-Response Characteristics: Where fire-resistance-rated gypsum board assemblies are indicated, provide gypsum board assemblies that comply with the following requirements:
 - 1. Fire-Resistance Ratings: As indicated by GA File Numbers in GA-600 "Fire Resistance Design Manual" or design designations in UL "Fire Resistance Directory" or in the listing of another testing and inspecting agency acceptable to authorities having jurisdiction.
 - 2. Gypsum board assemblies indicated are identical to assemblies tested for fire resistance according to ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
 - 3. Deflection and Firestop Track: Top runner provided in fire-resistance-rated assemblies indicated is labeled and listed by UL, Warnock Hersey, or another testing and inspecting agency acceptable to authorities having jurisdiction.
- C. Above-Ceiling Observation: Architect will conduct an above-ceiling observation prior to installation of gypsum board ceilings and report any deficiencies in the Work observed. Do not proceed with installation of gypsum board to ceiling support framing until deficiencies have been corrected.
 - 1. Notify Architect one week in advance of the date and the time when the Project, or part of the Project, will be ready for an above-ceiling observation.

1.5 STORAGE AND HANDLING

A. Store materials inside under cover and keep them dry and protected against damage from weather, condensation, direct sunlight, construction traffic, and other causes. Stack panels flat to prevent sagging.

1.6 PROJECT CONDITIONS

- A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written recommendations, whichever are more stringent.
- B. Do not install interior products until installation areas are enclosed and conditioned.
- C. Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 PANELS, GENERAL

A. Size: Provide in maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

2.2 STEEL FRAMING AND FURRING

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:
 - 1. Steel Framing and Furring:
 - a. Clark Steel Framing, Inc.
 - b. Consolidated Systems, Inc.
 - c. Dale Industries, Inc.
 - d. Dietrich Industries, Inc.
 - e. Marino/Ware (formerly Marino Industries Corp.).
 - f. National Gypsum Co.; Gold Bond Building Products Division.
 - g. Unimast, Inc.
- B. Steel Framing Components for Suspended and Furred Ceilings:
 - 1. General: Provide components complying with ASTM C 754 for conditions indicated.
 - 2. Wire Ties: ASTM A 641, Class 1 zinc coating, soft temper, 0.062 inch thick.
 - 3. Wire Hangers: ASTM A 641, Class 1 zinc coating, soft temper, 0.162-inch diameter.
 - 4. Channels: Cold-rolled steel, 0.0598-inch minimum thickness of base (uncoated) metal and 7/16-inch-wide flanges, and as follows:
 - a. Carrying Channels: 1-1/2 inches deep, 475 lb/1000 feet, unless otherwise indicated.
 - b. Furring Channels: 3/4 inch deep, 300 lb/1000 feet, unless otherwise indicated.
 - c. Finish: ASTM A 653, G 60 hot-dip galvanized coating for framing for exterior soffits and where indicated.
 - 5. Steel Rigid Furring Channels: ASTM C 645, hat shaped, depth of 7/8 inch, and minimum thickness of base (uncoated) metal as follows:
 - a. Thickness: 0.0179 inch, unless otherwise indicated.
 - b. Protective Coating: ASTM A 653, G 40 hot-dip galvanized coating.
- C. Steel Framing for Walls and Partitions:

- 1. General: Provide steel framing members complying with the following requirements:
 - a. Protective Coating: ASTM A 653, G 40 hot-dip galvanized coating.
- 2. Steel Studs and Runners: ASTM C 645, with flange edges of studs bent back 90 degrees and doubled over to form 3/16-inch- wide minimum lip (return), and complying with the following requirements for minimum thickness of base (uncoated) metal and for depth:
 - a. Thickness: minimum 24 gauge.
 - b. Depth: 3-5/8 inches, unless otherwise indicated. Provide 7/8", 1-1/2", 2-1/2", 4", 6", 8" and other sizes indicated on drawings.
- 3. Steel Rigid Furring Channels: ASTM C 645, hat shaped, depth and minimum thickness of base (uncoated) metal as follows:
 - a. Thickness: 0.0179 inch, unless otherwise indicated.
 - b. Depth: 7/8 inch.
- 4. Fasteners for Metal Framing: Provide fasteners of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel framing and furring members securely to substrates involved; complying with the recommendations of gypsum board manufacturers for applications indicated.

2.3 INTERIOR GYPSUM BOARD

- A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent. Provide gypsum board of types indicated in maximum lengths available that will minimize end-to-end butt joints in each area indicated to receive gypsum board application.
 - 1. Widths: Provide gypsum board in widths of 48 inches.
 - 2. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 3. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. American Gypsum Co.
 - b. BPB America Inc.
 - c. G-P Gypsum.
 - d. Lafarge North America Inc.
 - e. National Gypsum Company.
 - f. PABCO Gypsum.
 - g. Temple.
 - h. USG Corporation.
- B. Regular Type:
 - 1. Thickness: 5/8 inch.
 - 2. Long Edges: Tapered.
- C. Type C:
 - 1. Thickness: As required by fire-resistance-rated assembly indicated on Drawings.
 - 2. Long Edges: Tapered
- D. Type X:
 - 1. Thickness: 5/8 inch.
 - 2. Long Edges: Tapered.
 - 3. Abuse-Resistant Type: Manufactured to produce greater resistance to surface indentation, through-penetration (impact resistance), and abrasion than standard.
 - 4. Core: 5/8" inch,
 - 5. Long Edges: Tapered
- E. Mold-Resistant Gypsum Board: ASTM C1396/C1396M. With moisture- and mold-resistant core and paper surfaces.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

- a. CertainTeed Corporation.
- b. Georgia-Pacific Gypsum LLC.
- c. National Gypsum Company.
- d. Continental Building Products, LLC.
- e. USG Corporation.
- 2. Core: 5/8 inch, Type X.
- 3. Long Edges: Tapered.
- 4. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

2.4 EXTERIOR SHEATHING

1.

- A. Glass Mat Faced Gypsum Sheathing: Gypsum glass mat sheathing shall comply with ASTM C1177.
 - Type and Thickness: Type X, 5/8" Primed
 - a. Size: 48" X 120"
- B. Sheathing Fasteners: ASTM C 954, steel drill screws, Type S-12 fluted tip, a minimum of 1-1/4 inches long, with organic-polymer coating or other corrosion-protective coating.
- C. Sealant: Dow Corning 795 Building Sealant or equal: Install at all sheathing joints, and <u>apply tape</u> recommended by the manufacturer to all joints.

2.5 CEMENT BOARD PANELS

- A. Cementitious Backer Units: ANSI A118.9.
 - 1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - 2. Products: Subject to compliance with requirements, provide one of the following:
 - a. Custom Building Products; Wonderboard.
 - b. FinPan, Inc.; Util-A-Crete Concrete Backer Board.
 - c. USG Corporation; DUROCK Cement Board.
 - 3. Thickness: As indicated on Drawings.

2.6 TRIM ACCESSORIES

- A. Interior Trim: ASTM C 1047.
 - 1. Material: Galvanized or aluminum-coated steel sheet or rolled zinc.
 - 2. Shapes:
 - a. Cornerbead on outside corners.
 - b. L-Bead: L-shaped; exposed long flange receives joint compound. Use L-bead unless otherwise indicated. Provide at all locations where gypsum board abuts dissimilar materials.
 - c. Expansion (control) joint.
- B. Exterior Trim: ASTM C 1047.
 - 1. Material: Hot-dip galvanized steel sheet, plastic, or rolled zinc.
 - 2. Shapes:
 - a. Cornerbead.
- C. Reveal Molding
 - 1. Where indicated on drawings, provide Fry Reglet Reveal Molding as manufactured by Fry Reglet Corp. or equal shall be installed. Aluminum shall be extruded alloy 6063 T5, with chemical conversion coating. Size 5/8" x 1/2".
 - a. Reveal Molding Product #DRM-625-50 where indicated on drawings.
 - b. "Z" Reveal Molding Product #DRMZ-625-50 where indicated on drawings.

2.7 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C 475/C 475M.
- B. Joint Tape:
 - 1. Interior Gypsum Wallboard: Paper.
 - 2. Glass-Mat Gypsum Sheathing Board: 10-by-10 glass mesh.
 - 3. Tile Backing Panels: As recommended by panel manufacturer.
- C. Joint Compound for Interior Gypsum Wallboard (EXCEPT SHOWER ROOMS): For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
 - 1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
 - 2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use drying-type, all-purpose compound.
 - a. Use setting-type compound for installing paper-faced metal trim accessories.
 - 3. Fill Coat: For second coat, use drying-type, all-purpose compound.
 - 4. Finish Coat: For third coat, use drying-type, all-purpose compound.
 - 5. Skim Coat: For final coat of Level 5 finish, use drying-type, all-purpose compound.
- D. Joint Compound for Shower Room Applications:
 - 1. Shower Room Ceilings: Use setting-type taping compound and setting-type, sandable topping compound.
- E. Joint Compound for Cementitious Backer Units panels:
 - 1. Cementitious Backer Units: As recommended by backer unit manufacturer.

2.8 AUXILIARY MATERIALS

- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
- B. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
 - 1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch thick.
 - 2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.
- C. Acoustical Sealant: As specified in Division 07 Section "Joint Sealants."
 - 1. Acoustical Sealant for Exposed and Concealed Joints: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834 and the following requirements:
 - a. Product is effective in reducing airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.
 - 2. Available Products: Subject to compliance with requirements, acoustical sealants that may be incorporated in the Work include, but are not limited to, the following:
 - a. Acoustical Sealant for Exposed and Concealed Joints:
 - 1) PL Acoustical Sealant; ChemRex, Inc.; Contech Brands.
 - 2) AC-20 FTR Acoustical and Insulation Sealant; Pecora Corp.
 - 3) SHEETROCK Acoustical Sealant; United States Gypsum Co.
- D. Thermal Insulation: As specified in Division 07 Section "Thermal Insulation."
- E. Vapor Retarder: As specified in Division 07 Section "Thermal Insulation."

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames and framing, for compliance with requirements and other conditions affecting performance.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLING STEEL FRAMING GENERAL

- A. Steel Framing Installation Standard: Install steel framing to comply with ASTM C 754 and with ASTM C 840 requirements that apply to framing installation.
- B. Install supplementary framing, blocking, and bracing at terminations in gypsum board assemblies to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction. Comply with details indicated and with recommendations of gypsum board manufacturer or, if none available, with United States Gypsum Co.'s "Gypsum Construction Handbook."
- C. Do not bridge building control and expansion joints with steel framing or furring members. Independently frame both sides of joints with framing or furring members as indicated.

3.3 INSTALLING STEEL FRAMING FOR SUSPENDED AND FURRED CEILINGS

- A. Suspend ceiling hangers from building structural members and as follows:
 - 1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or ceiling suspension system. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
 - 2. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with the location of hangers required to support standard suspension system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards.
 - 3. Secure wire hangers by looping and wire-tying, either directly to structures or to inserts, eye screws, or other devices and fasteners that are secure and appropriate for substrate, and in a manner that will not cause them to deteriorate or otherwise fail.
 - 4. Secure flat, angle, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices and fasteners that are secure and appropriate for structure as well as for type of hanger involved, and in a manner that will not cause them to deteriorate or otherwise fail.
 - 5. Do not attach hangers to steel roof deck. Attach hangers to structural members.
 - 6. Do not connect or suspend steel framing from ducts, pipes, or conduit.
- B. Sway-brace suspended steel framing with hangers used for support.
- C. Install suspended steel framing components in sizes and at spacings indicated, but not less than that required by the referenced steel framing installation standard.
 - 1. Wire Hangers: 48 inches o.c.
 - 2. Carrying Channels (Main Runners): 48 inches o.c.
 - 3. Furring Channels (Furring Members): 16 inches o.c.
- D. Installation Tolerances: Install steel framing components for suspended ceilings so that cross-furring or grid suspension members are level to within 1/8 inch in 12 feet (3 mm in 3.6 m) as measured both lengthwise on each member and transversely between parallel members.
- E. Wire-tie or clip furring members to main runners and to other structural supports as indicated.

3.4 INSTALLING STEEL FRAMING FOR WALLS AND PARTITIONS

- A. Install runners (tracks) at floors, ceilings, and structural walls and columns where gypsum board stud assemblies abut other construction.
 - 1. Where studs are installed directly against exterior walls, install asphalt felt strips or foam gaskets between studs and wall.
- B. Installation Tolerances: Install each steel framing and furring member so that fastening surfaces do not vary more than 1/8 inch from the plane formed by the faces of adjacent framing.
- C. Extend partition framing full height to structural supports or substrates above suspended ceilings, except where partitions are indicated to terminate at suspended ceilings. Continue framing over frames for doors and openings and frame around ducts penetrating partitions above ceiling to provide support for gypsum board.
 - 1. Cut studs $\frac{1}{2}$ inch short of full height to provide perimeter relief.
 - 2. For STC-rated and fire-resistance-rated partitions that extend to the underside of floor/roof slabs and decks or other continuous solid structural surfaces to obtain ratings, install framing around structural and other members extending below floor/roof slabs and decks, as needed, to support gypsum board closures needed to make partitions continuous from floor to underside of solid structure.
- D. Install steel studs and furring in sizes and at spacings indicated.
 - 1. Single-Layer Construction: Space studs 16 inches o.c., unless otherwise indicated.
 - 2. Multilayer Construction: Space studs 16 inches o.c., unless otherwise indicated.
- E. Install steel studs so flanges point in the same direction and leading edge or end of each gypsum board panel can be attached to open (unsupported) edges of stud flanges first.
- F. For curved partitions, install steel framing as follows:
 - 1. Cut top and bottom runners through leg and web at 2-inch intervals for arc length. In cutting lengths of runners, allow for uncut straight lengths of not less than 12 inches at ends of arcs.
 - 2. Bend runners to uniform curve of radius indicated and locate straight lengths so they are tangent to arcs.
 - 3. Support outside (cut) leg of runners by clinching a 1-inch- high-by-0.0209-inch- thick steel sheet strip to inside of cut legs using metal lock fasteners.
 - 4. Attach runners to structural elements at floor and ceiling with fasteners located 2 inches from ends and spaced 24 inches o.c.
- G. Frame door openings to comply with GA-219, and with applicable published recommendations of gypsum board manufacturer, unless otherwise indicated. Attach vertical studs at jambs with screws either directly to frames or to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.
 - 1. Install double 20-gage studs at each jamb, unless otherwise indicated.
 - 2. Install cripple studs at head adjacent to each jamb stud, with a minimum ¹/₂-inch clearance from jamb stud to allow for installation of control joint.
- H. Frame openings other than door openings to comply with details indicated or, if none indicated, as required for door openings. Install framing below sills of openings to match framing required above door heads.

3.5 APPLYING AND FINISHING PANELS, GENERAL

- A. Comply with ASTM C 840.
- B. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.
- C. Install sound-attenuation blankets, where indicated, prior to installing gypsum panels unless blankets are readily installed after panels have been installed on one side.
- D. Attach gypsum panels to steel studs so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.
- E. Attach gypsum panels to framing provided at openings and cutouts.

- F. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.
- G. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.
- H. Form control and expansion joints with space between edges of adjoining gypsum panels.
- I. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.
 - 1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area.
 - 2. Fit gypsum panels around ducts, pipes, and conduits.
 - 3. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4- to 3/8-inch- wide joints to install sealant.
- J. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, except floors. Provide 1/4- to 1/2-inch- wide spaces at these locations, and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- K. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.
- L. Space fasteners in gypsum panels according to referenced gypsum board application and finishing standard and manufacturer's recommendations.
 - 1. Space screws a maximum of 12 inches o.c. for vertical applications.

3.6 APPLYING INTERIOR GYPSUM BOARD

- A. Install interior gypsum board in the following locations:
 - 1. Regular Type: As indicated on Drawings.
 - 2. Type X / Abuse-Resistant: In corridors, on bulkheads, and as indicated on Drawings.
 - 3. Type C: Where required for specific fire-resistance-rated assembly indicated.
 - 4. Mold-Resistant Gypsum Board: Where exposed in Restrooms & Janitor closets, and as indicated on Drawings
- B. Single-Layer Application:
 - 1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing, unless otherwise indicated.
 - 2. On partitions/walls, apply gypsum panels vertically (parallel to framing), unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
 - a. Stagger abutting end joints not less than one framing member in alternate courses of panels.
 - 3. On Z-furring members, apply gypsum panels vertically (parallel to framing) with no end joints. Locate edge joints over furring members.
 - 4. Fastening Methods: Apply gypsum panels to supports with steel drill screws.

3.7 GYPSUM SHEATHING INSTALLATION

A. General: Install sheathing board according to manufacturer's instructions and GA-253 "Application of Gypsum Sheathing." Cut boards at penetrations, edges, and other obstructions of the work, fit tight against abutting construction, except provide a 3/8" setback where non load bearing elements abut structural elements. Coordinate sheathing with flashing and joint installation so these materials are installed in sequence and manner that prevent moisture from passing through the completed exterior wall assembly, Apply fasteners so screw heads bear tightly against face of sheathing boards but do not cut into

facing. Do not bridge building expansion joints with sheathing, cut and space edges to match spacing of structural support elements.

- B. Install sheathing boards vertical edges centered over flanges of steel studs. Screw attach boards at perimeter and within field of board to each stud at approximately 8 inches on center and set back a minimum of 3.8" from edges and ends of boards.
- C. Apply joint sealant with a continuous 3/8" bead and trowel flat. Apply enough sealant to each fastener to cover completely when trowel flat.

3.8 APPLYING CEMENTITIOUS BACKER PANELS

A. Cementitious Backer Units: ANSI A108.11, at locations indicated.

3.9 INSTALLING TRIM ACCESSORIES

- A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Exterior Trim: Install in the following locations: 1. Cornerbead: Use at outside corners.

3.10 FINISHING GYPSUM BOARD

- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Prefill open joints, rounded or beveled edges, and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape.
- D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
 - 1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
 - 2. Level 4: Gypsum board surfaces, unless otherwise indicated
 - a. Primer and its application to surfaces are specified in other Division 09 Sections.
- E. Glass-Mat Gypsum Sheathing Board: Finish according to manufacturer's written instructions for use as exposed soffit board.
- F. Cementitious Backer Units: Finish according to manufacturer's written instructions.
- G. Use the following joint compound combination as applicable to the finish levels specified:
 - 1. Embedding and First Coat: Ready-mixed, drying-type, all-purpose or taping compound. Fill (Second) Coat: Ready-mixed, drying-type, all-purpose or topping compound. Finish (Third) Coat: Ready-mixed, drying-type, all-purpose or topping compound.
- H. For Level 4 gypsum board finish, embed tape in joint compound and apply first, fill (second), and finish (third) coats of joint compound over joints, angles, fastener heads, and accessories. Touch up and sand between coats and after last coat as needed to produce a surface free of visual defects and ready for decoration. Install Level 5 finish in Corridors.
 - 1. Where Level 1 gypsum board finish is indicated, embed tape in joint compound.
- I. For Level 5 gypsum board finish, Apply skim coat of all-purpose (conventional weight) drying-type compound or spray-applied Primer-Surfacer over exposed surfaces of gypsum board. After skim coat has dried, touch-up and sand to provide surface free of visual defects, tool marks, and ridges, and ready for application of finish.

3.11 **PROTECTION**

- A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- B. Remove and replace panels that are wet, moisture damaged, and mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 09 29 00

SECTION 09 30 00 - TILING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Porcelain Tile (floor and wall).
 - 2. Stone thresholds installed as part of tile installations.
 - 3. Waterproof membrane for thin-set tile installations.
 - 4. Crack-suppression membrane for thin-set tile installations.
 - 5. Cementitious backer units installed as part of tile installations.
 - 6. Metal Trim and Transition Strips
- B. Related Sections include the following:
 - 1. Division 03 Section "Cast-in-Place Concrete" for monolithic slab finishes specified for tile substrates.
 - 2. Division 07 Section "Joint Sealants" for sealing of expansion, contraction, control, and isolation joints in tile surfaces.
 - 3. Division 09 Section "Gypsum Board" for cementitious backer units.

1.3 DEFINITIONS

- A. Module Size: Actual tile size (minor facial dimension as measured per ASTM C 499) plus joint width indicated.
- B. Facial Dimension: Actual tile size (minor facial dimension as measured per ASTM C 499).
- C. Facial Dimension: Nominal tile size as defined in ANSI A137.1.

1.4 SUBMITTALS

B.

- A. Product Data: For each type of product indicated.
 - Shop Drawings: Provide Tile shop drawing layout. Show the following:
 - 1. Columns, doorways, enclosing walls, or partitions, built-in casework.
 - 2. Existing flooring materials to be removed.
 - 3. Existing flooring materials to remain.
 - 4. Type of subfloor.
 - 5. Type of installation.
 - 6. Pattern of installation.
 - 7. Type, color, and location of insets and borders.
 - 8. Type, color, and location of edge, transition, and other accessory strips.
 - 9. Transition details to other flooring materials.
- C. Samples: For each of the following products and for each

- D. Samples for Initial Selection: For each type of tile and grout indicated. Include Samples of accessories involving color selection.
- E. Samples for Verification:
 - 1. Full-size units of each type and composition of tile and for each color and finish required.
- F. Master Grade Certificates: For each shipment, type, and composition of tile, signed by tile manufacturer and Installer.
- G. Product Certificates: For each type of product, signed by product manufacturer.
- H. Qualification Data: For Installer.
- I. Material Test Reports: For each tile-setting and -grouting product.

1.5 QUALITY ASSURANCE

- A. Source Limitations for Tile: Obtain all tile of same type and color or finish from one source or producer.
 - 1. Obtain tile from same production run and of consistent quality in appearance and physical properties for each contiguous area.
- B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from a single manufacturer and each aggregate from one source or producer.
- C. Source Limitations for Other Products: Obtain each of the following products specified in this Section through one source from a single manufacturer for each product:
 - 1. Stone thresholds.
 - 2. Waterproofing.
 - 3. Joint sealants.
 - 4. Cementitious backer units.
- D. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination."

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirement in ANSI A137.1 for labeling sealed tile packages.
- B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.
- C. Store aggregates where grading and other required characteristics can be maintained, and contamination avoided.
- D. Store liquid latexes and emulsion adhesives in unopened containers and protected from freezing.
- E. Handle tile that has temporary protective coating on exposed surfaces to prevent coated surfaces from contacting backs or edges of other units. If coating does contact bonding surfaces of tile, remove coating from bonding surfaces before setting tile.

1.7 PROJECT CONDITIONS

A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

1.8 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed, for each type, composition, color, pattern, and size indicated.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply for product selection:
 - 1. Products: Subject to compliance with requirements, provide one of the products specified.
 - 2. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the manufacturers specified.

2.2 PRODUCTS, GENERAL

- A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1, "Specifications for Ceramic Tile," for types, compositions, and other characteristics indicated.
 - 1. Provide tile complying with Standard grade requirements, unless otherwise indicated.
 - 2. For facial dimensions of tile, comply with requirements relating to tile sizes specified in Part 1 "Definitions" Article.
- B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI standards referenced in "Setting and Grouting Materials" Article.
- C. Colors, Textures, and Patterns: Where manufacturer's standard products are indicated for tile, grout, and other products requiring selection of colors, surface textures, patterns, and other appearance characteristics, provide specific products or materials complying with the following requirements:
 - 1. As selected by Architect from manufacturer's full range.
- D. Factory Blending: For tile exhibiting color variations within ranges selected during Sample submittals, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.
- E. Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer, unless otherwise indicated.

2.3 TILE PRODUCTS

- A. Approved Manufacturers:
 - 1. Daltile International
 - 2. American Olean
 - 3. American Marazzi Tile, Inc.
 - 4. Crossville Ceramics Company, L.P.
 - 5. Florida Tile Industries, Inc.
- B. Porcelain Floor Tile FT-1:
 - 1. Basis of Design: provide Daltile Median Colorbody Porcelain Tile, or equal by American Olean or from other approved Manufacturer.
 - 2. Selection from Manufacturers full range of colors.
 - 3. Finish: Matte
 - 4. Composition: Colorbody Porcelain.
 - 5. Module size: 12 inches by 24 inches
 - 6. Nominal Thickness: 3/8 inch

- 7. Porcelain Tile Trim Units: Matching characteristics of adjoining flat tile and coordinated with sizes and coursing of adjoining flat tile where applicable.
 - a. Grout color: As selected by Architect from manufacturer's full range.
 - b. Grout Joint Size: 1/8 inch (3/16 inch when installing tile with a length 15 inches or greater in staggered brick-joint pattern, overlap should not exceed 33%.
- C. Porcelain Wall Tile WT-1:
 - 1. Basis of Design: provide Daltile Median Colorbody Porcelain Tile, or equal by American Olean or from other approved Manufacturer.
 - 2. Selection from Manufacturers full range of colors.
 - 3. Finish: Matte
 - 4. Composition: Colorbody Porcelain.
 - 5. Module size: 12 inches by 24 inches
 - 6. Nominal Thickness: 3/8 inch
 - 7. Porcelain Tile Trim Units: Matching characteristics of adjoining flat tile and coordinated with sizes and coursing of adjoining flat tile where applicable.
 - a. Grout color: As selected by Architect from manufacturer's full range.
 - Grout Joint Size: 1/8 inch (3/16 inch when installing tile with a length 15 inches or greater in staggered brick-joint pattern, overlap should not exceed 33%.
- D. Porcelain Wall Tile WT-2:
 - 1. Basis of Design: provide Daltile Median Colorbody Porcelain Tile, or equal by American Olean or from other approved Manufacturer.
 - 2. Selection from Manufacturers full range of colors.
 - 3. Finish: Polished
 - 4. Composition: Colorbody Porcelain.
 - 5. Module size: 12 inches by 24 inches
 - 6. Nominal Thickness: 3/8 inch
 - 7. Porcelain Tile Trim Units: Matching characteristics of adjoining flat tile and coordinated with sizes and coursing of adjoining flat tile where applicable.
 - a. Grout color: As selected by Architect from manufacturer's full range.
 - b. Grout Joint Size: 1/8 inch (3/16 inch when installing tile with a length 15 inches or greater in staggered brick-joint pattern, overlap should not exceed 33%.
- E. Porcelain Wall/Floor Trim and Base:
 - 1. Use matching porcelain tile series for bullnose trim.
 - 2. Use 4x24 bullnose trim pieces along top of wall tile perimeter.
 - 3. Use 4x24 bullnose trim pieces where wall tile stops short at drywall and requires a finished tile end. At wall tile end locations bullnose trim pieces are to run vertically.
 - 4. At Restroom 101B ONLY at gypsum wall board locations (where there is no wall tile) use 4x24 bullnose trim as the floor tile base.
 - 5. At Restroom 101B ONLY at specified wall tile location cut 12x24 porcelain tile to 4x24 custom size for base tile. Refer to drawings.
 - 6. For Mens Restroom 101C, Janitor 101D, and Womens Restroom 101E refer to specification 096723 Resinous Flooring Flake for 6 inch epoxy base.

2.4 ACCESSORY PRODUCTS

A. Metal Base Trim:

1.

- Basis of Design: SCHIENE by Schluter or approved equal for metal transition finish edge.
 - a. Description: Edge protection profile for outside surfaces on walls.
 - b. Metal base trim is to be used along bottom of wall tile perimeter.

- c. Metal Trim Finish: Stainless Steel.
- d. Height: Suitable for thickness of specified tile.
- e. To be used at the bottom of wall tile in the following locations: Mens Restroom 101C and Womens Restroom 101E.
- 2. Basis of Design: DILEX-EHK by Schluter for metal cove protection.
 - a. Description: Stainless steel, cove-shaped profile for sanitary wall/floor transition.
 - b. In Restroom 101B used Schluter metal cove base DILEX-EHK at all field wall tile and floor tile locations. Metal cove base to be installed at entire perimeter of room.
 - c. Metal Trim Finish: Stainless steel.
 - d. Height: Suitable for thickness of specified tile.
 - e. Provide necessary inside and outside corner pieces for uniform finish.

2.5 THRESHOLDS

- A. Porcelain Floor Tile to VCT Marble Threshold Transition Strip:
 - 1. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.
 - 2. Bevel edges at 1:2 slope, aligning lower edge of bevel with adjacent floor finish. Limit height of bevel to 1/2 inch or less, and finish bevel to match face of threshold.
 - 3. Marble Thresholds: ASTM C 503 with a minimum abrasion resistance of [10] [12] per ASTM C 1353 or ASTM C 241 and with honed finish.
 - 4. Description: Uniform, fine- to medium-grained white stone with gray veining.
 - 5. Provide 4" x 1" thick white, honed marble with 1/2"W x 1/4"H bevels, complying with MIA Group "A" requirements for soundness.
 - 6. Marble threshold by Daltile or approved equal.
- B. For additional thresholds transition strips refer to specification Division 096513 Resilient Base and Accessories.
- C. Metal Base Trim: Basis of Design: DILEX-EHK by Schluter for metal cove protection.
 - 1. Description: Stainless steel, cove-shaped profile for sanitary wall/floor transition.
 - a. In Restroom 101B used Schluter metal cove base DILEX-EHK at all field wall tile and floor tile locations. Metal cove base to be installed at entire perimeter of room.
 - 2. Metal Trim Finish: Stainless steel.
 - 3. Height: Suitable for thickness of specified tile.
 - 4. Provide necessary inside and outside corner pieces for uniform finish.

2.6 SETTING AND GROUTING MATERIALS

- A. Manufacturers:
 - 1. Atlas Minerals & Chemicals, Inc.
 - 2. Boiardi Products Corporation.
 - 3. Bonsal, W. R., Company.
 - 4. Bostik.
 - 5. C-Cure.
 - 6. Custom Building Products.
 - 7. DAP, Inc.
 - 8. Jamo Inc.
 - 9. LATICRETE International Inc.
 - 10. MAPEI Corporation.
 - 11. Southern Grouts & Mortars, Inc.
 - 12. TEC Specialty Products Inc.

2.7 LATEX-PORTLAND CEMENT MORTAR (THIN SET): ANSI A118.4, consisting of the following:

- A. Prepackaged dry-mortar mix containing dry, redispersible, ethylene vinyl acetate additive to which only water must be added at Project site.
 - 1. For wall applications, provide nonsagging mortar that complies with Paragraph F-4.6.1 in addition to the other requirements in ANSI A118.4.
- B. Sand-Portland Cement Grout: ANSI A108.10, composed of white or gray cement and white or colored aggregate as required to produce color indicated.
- C. Standard Sanded Cement Grout: ANSI 118.7 Polymer Modified Cement Grouts, color as indicated.
- D. Standard Unsanded Cement Grout: ANSI 118.7 Polymer Modified Cement Grouts, color as indicated.
 - 1. Polymer Type: Either ethylene vinyl acetate, in dry, redispersible form, prepackaged with other dry ingredients, or acrylic resin or styrene-butadiene rubber in liquid-latex form for addition to prepackaged dry-grout mix.
 - a. Unsanded grout mixture for joints 3/16 inch and narrower.
 - b. Sanded grout mixture for joints 1/8 inch and wider.

2.8 ELASTOMERIC SEALANTS

- A. General: Provide manufacturer's standard chemically curing, elastomeric sealants of base polymer and characteristics indicated that comply with applicable requirements in Division 07 Section "Joint Sealants."
 - 1. Use sealants that have a VOC content of **250** g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- B. Colors: Provide colors of exposed sealants to match colors of grout in tile adjoining sealed joints, unless otherwise indicated.
- C. One-Part, Mildew-Resistant Silicone Sealant: ASTM C 920; Type S; Grade NS; Class 25; Uses NT, G, A, and, as applicable to nonporous joint substrates indicated, O; formulated with fungicide, intended for sealing interior ceramic tile joints and other nonporous substrates that are subject to in-service exposures of high humidity and extreme temperatures.
 - 1. Available Products:
 - a. Dow Corning Corporation; Dow Corning 786.
 - b. GE Silicones; Sanitary 1700.
 - c. Pecora Corporation; Pecora 898 Sanitary Silicone Sealant.
 - d. Tremco, Inc.; Tremsil 600 White.
- D. Multipart, Pourable Urethane Sealant for Use T: ASTM C 920; Type M; Grade P; Class 25; Uses T, M, A, and, as applicable to joint substrates indicated, O.
 - 1. Available Products:
 - a. Bostik; Chem-Calk 550.
 - b. Mameco International, Inc.; Vulkem 245.
 - c. Pecora Corporation; NR-200 Urexpan.
 - d. Tremco, Inc.; THC-900.

2.9 CEMENTITIOUS BACKER UNITS

- A. Provide cementitious backer units complying with ANSI A118.9 in maximum lengths available to minimize end-to-end butt joints.
 - 1. Thickness: 1/2 inch
 - 2. Width: 48 inches
- B. Available Products:
 - 1. C-Cure; C-Cure Board 990.
 - 2. Custom Building Products; Wonderboard.
 - 3. FinPan, Inc.; Util-A-Crete Concrete Backer Board.
 - 4. USG Corporation; DUROCK Cement Board.

2.10 MISCELLANEOUS MATERIALS

- A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.
- B. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.
- C. Grout Sealer: Manufacturer's standard product for sealing grout joints that does not change color or appearance of grout.
 - 1. Available Products:
 - a. Bonsal, W. R., Company; Grout Sealer.
 - b. Bostik; CeramaSeal Grout Sealer.
 - c. C-Cure; Penetrating Sealer 978.
 - d. Custom Building Products; Surfaceguard Grout and Tile Grout Sealer.
 - e. Jamo Inc.; Matte FinishPenetrating Sealer.
 - f. MAPEI Corporation; KER 003, Silicone Spray Sealer for Cementitious Tile Grout 004, Keraseal Penetrating Sealer for Unglazed Grout and Tile.
 - g. Southern Grouts & Mortars, Inc.; Silicone Grout Sealer.
 - h. TEC Specialty Products Inc.; TA-256 Penetrating Silicone TA-257 Silicone Grout Sealer.

2.11 MIXING MORTARS AND GROUT

- A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.
- B. Add materials, water, and additives in accurate proportions.
- C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.
 - 1. Verify that substrates for setting tile are firm; dry; clean; free of oil, waxy films, and curing compounds; and within flatness tolerances required by referenced ANSI A108 Series of tile installation standards for installations indicated.
 - 2. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed before installing tile.
 - 3. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove coatings, including curing compounds and other substances that contain soap, wax, oil, or silicone, that are incompatible with tile-setting materials.
- B. Provide concrete substrates for tile floors installed with **thick-set mortar** that comply with flatness tolerances specified in referenced ANSI A108 Series of tile installation standards.

- 1. Fill cracks, holes, and depressions with trowelable leveling and patching compound according to tile-setting material manufacturer's written instructions. Use product specifically recommended by tile-setting material manufacturer.
- 2. Remove protrusions, bumps, and ridges by sanding or grinding.
- C. Blending: For tile exhibiting color variations within ranges selected during Sample submittals, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

3.3 INSTALLATION, GENERAL

- A. ANSI Tile Installation Standards: Comply with parts of ANSI A108 Series "Specifications for Installation of Ceramic Tile" that apply to types of setting and grouting materials and to methods indicated in ceramic tile installation schedules.
- B. TCNA Installation Guidelines: TCNA's "Handbook for Ceramic Tile Installation." Comply with TCNA installation methods indicated in ceramic tile installation schedules.
- C. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions, unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- D. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- E. Jointing Pattern: Lay tile in grid pattern, unless otherwise indicated. Align joints when adjoining tiles on floor, base, walls, and trim are same size. Lay out tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Provide uniform joint widths, unless otherwise indicated.
 - 1. For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so joints between sheets are not apparent in finished work.
- F. Lay out tile wainscots to next full tile beyond dimensions indicated.
- G. Expansion Joints: Locate expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
 - 1. Locate joints in tile surfaces directly above joints in concrete substrates.
 - 2. Prepare joints and apply sealants to comply with requirements in Division 07 Section "Joint Sealants."
- H. Grout tile to comply with requirements of the following tile installation standards:
 - 1. For ceramic tile grouts (sand-portland cement; dry-set, commercial portland cement; and latex-portland cement grouts), comply with ANSI A108.10.
 - 2. For chemical-resistant epoxy grouts, comply with ANSI A108.6.
 - 3. For chemical-resistant furan grouts, comply with ANSI A108.8.

3.4 FLOOR TILE INSTALLATION

- A. General: Install tile to comply with requirements in the Floor Tile Installation Schedule, including those referencing TCNA installation methods (latest edition) and ANSI A108 Series of tile installation standards.
 - 1. For installations indicated below, follow procedures in ANSI A108 Series tile installation standards for providing 95 percent mortar coverage.
 - a. Tile floors in wet areas.
 - b. Tile floors composed of tiles 6 by 6 inches or larger.
- B. Refer to TCNA Installation Standard F121-18 for floor tile installation.

- C. Stone Thresholds: Install stone thresholds at locations indicated; set in same type of setting bed as abutting field tile, unless otherwise indicated.
 - 1. Set thresholds in latex-portland cement mortar for locations where mortar bed would otherwise be exposed above adjacent nontile floor finish.
- D. Grout Sealer: Apply grout sealer to grout joints according to grout-sealer manufacturer's written instructions. As soon as grout sealer has penetrated grout joints, remove excess sealer and sealer that has gotten on tile faces by wiping with soft cloth.

3.5 WALL TILE INSTALLATION

- A. Install types of tile designated for wall installations to comply with requirements in the Wall Tile Installation Schedule, including those referencing TCNA installation methods (latest edition) and ANSI setting-bed standards.
- B. Refer to <u>TCNA Installation Standard W244C-18 for wall tile installation</u>. Waterproof membrane shall be provided in the wall tile installation for the shower as reference in the noted TCNA standard.
- C. Install metal lath and scratch coat for walls to comply with ANSI A108.1A, Section 4.1.

3.6 CLEANING AND PROTECTING

- A. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
- B. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear.
- C. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
- D. Before final inspection, remove protective coverings and rinse neutral cleaner from tile surfaces.

END OF SECTION 09 30 00

SECTION 10 73 26 – PROTECTIVE WALKWAY COVERINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this section.

1.2 DESCRIPTION OF WORK

- A. Extent of pre-engineered walkway canopy work is shown on drawings.
 - 1. Work includes design, fabrication and installation of a complete welded, extruded aluminum protective cover system.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 01 Section "Alternates" for alternates associated with this section.
 - 2. Division 03 Section "Cast-In-Place Concrete" for concrete foundations.

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's product information, specifications and installation instructions for canopy components and accessories.
- B. Shop Drawings: Submit complete erection and shop drawings sealed by an engineer registered in North Carolina showing anchor bolts settings and roof framing, transverse cross sections, covering and trim details, concrete foundations, and accessory installation details to clearly indicate proper assembly of canopy components.
- C. Samples: Submit samples of the following items. Architect's review will be for color and texture only. Compliance with other requirements is the responsibility of the Contractor.
 - 1. 12" long by actual width of roofing panels, with required finishes.
 - 2. Fasteners for application of roofing panels.
 - 3. Sealants and closures.
- D. Certification: Submit written Certification prepared and signed by a Professional Engineer, registered to practice in the State where walkway is to be erected, verifying that walkway design meets indicated loading requirements and codes of authorities having jurisdiction.

1.4 QUALITY ASSURANCE

- A. Design Criteria:
 - 1. Structural Framing: Design primary and secondary structural members and exterior covering materials for applicable loads and combinations of loads in accordance with the Metal Building Manufacturers Association's (MBMA) "Design Practices Manual".
 - 2. Welded connections: Comply with requirements of the American Welding Society's (AWS) "Standard Code for Arc and Gas Welding in Building Construction" for welding procedures.

- B. Engineered Structural Design: Provide design calculations and drawings prepared by a Professional Engineer, licensed in the State of N.C., for the design of the pre-engineered walkway canopy and concrete foundations.
 - 1. Structure shall be engineered to meet the required structural loads including but not limited to a design wind speed of 143mph.
- C. Manufacturer's Qualifications: Provide pre-engineered walkway canopy system as produced by a manufacturer with not less than 5 years successful experience in the fabrication of pre-engineered canopies of the type and quality required.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store prefabricated components, sheets, panels, and other manufactured items so they will not be damaged or deformed.
 - 1. Stack materials on platforms or pallets, covered with tarpaulins or other suitable weathertight ventilated covering. Store metal sheets or panels so that water accumulations will drain freely. Do not store sheets or panels in contact with other materials which might cause staining.

PART 2 - PRODUCTS

2.1 PRE-ENGINEERED ALUMINUM CANOPY WALKWAY SYSTEM

- A. Provide a complete aluminum walkway cover system with columns, beams, roofing, fascias, gutters, downspouts, etc. as indicated on the drawings and describe herein.
 - 1. System shall be entirely of extruded aluminum. Understructure shall consist of heli-arc welded onepiece bents and the deck of interlocking extruded aluminum. Structure shall be capable of sustaining severe icing, hail, hurricane winds, and being walked upon.
- B. Subject to compliance with the requirements, comparable and equal products of the following companies, but not limited too, are acceptable:
 - 1. E.L. Burns Company, Shreveport, LA
 - 2. Dittmer Architectural Aluminum, Winter Springs, FL
 - 3. Peachtree Products
 - 4. Mason-Florida, LLC

2.2 MATERIALS

- A. Aluminum Sections: All aluminum sections shall be 6063 alloy heat-treated to a T-6 temper.
- B. Fasteners: All deck screws shall be type 18-8 stainless steel, sealed with neoprene "O" ring beneath stainless steel. Trim rivets may be aluminum.
- C. Grout: Grout shall be 3:1 Portland cement to masonry sand, 2,000 psi compressive strength.
- D. Gaskets: Dry seal santoprene pressure type

2.3 FABRICATION

- A. General: Assemble components in shop to greatest extent possible to minimize field assembly.
- B. Bent Construction: Beams and columns shall be heli-arc welded into rigid, one-piece units in the manufacturer's plant. Column ends shall be pierced to "key" grout to bent for maximum uplift protection.
- C. Roof Deck: Extruded, self-flashing deck sections interlocked into a composite unit spanning double bays for positive locking. Deck shall be staked into a camber sufficient to off-set deadload deflection and

cause positive drainage on spans over 15'-0". Staking shall consist of an abrupt local deformation of deadlock metal, each stake having a shear value in excess of 350 lbs and shall occur as detailed.

- 1. All aluminum roof decks shall have a profile similar to Peachtree canopy 300 series, 6" rib spacing, minimum 3" rib height.
- D. Aluminum Suspended Canopies
 - 1. Decks span over at least one support beam and drain to gutter beams that convey water to downspout attached to wall.
- E. Internal Drainage: Internal gutter system integral with the system to direct water from deck to columns for discharge into the underground site drainage system. Include weepholes above ground level for emergency overflow.

2.4 FINISH

A. Baked-Enamel or Powder-Coat Finish: Manufacturer's standard baked-on finish consisting of prime coat and thermosetting topcoat. Comply with coating manufacturer's written instructions for cleaning, pretreatment, application, and minimum dry film thickness. Color to be selected by Architect from manufacturer's standard color selection.

2.5 ACCESSORIES

- A. Provide the following sheet metal accessories factory formed of the same material and finish as the roofing and siding.
 - 1. Flashings.
 - 2. Closers.
 - 3. Fascia/gutter.
- B. Flexible Closure Strips: Provide closed-cell, expanded cellular rubber, self- extinguishing flexible closure strips. Cut or premold closure strips to match corrugation configuration of roofing and siding sheets. Provide closure strips where indicated or necessary to ensure weathertight construction.
- C. Sealing Tape: Provide pressure sensitive 100 percent solids grey polyisobutylene compound sealing tape with release paper backing. Provide permanently elastic, non-sag, non toxic, non staining tape not less than 1/2" wide and 1/8" thick.
- D. Joint Sealant: Provide one-part elastomeric polyurethane, polysulfide or silicone rubber sealant as recommended by the building manufacturer.

PART 3 - EXECUTION

3.1 INSTALLATION AND ERECTION

- A. Install and/or erect the system in accordance with the manufacturer's instructions and recommendations and approved installation/erection drawings.
 - 1. Install and erect all members straight and true to line as required and as acceptable to Architect.
 - 2. Set posts in concrete as indicated and/or required.
 - 3. Install screw fasteners with power tool having controlled torque adjusted to compress neoprene washer tightly without damage to washer, screw threads, or panels. Install screws in predrilled holes.

3.2 **PROTECTION**

A. Protect work of other trades. Correct painting related damages by cleaning, repairing or replacing, and refinishing, as directed by the Architect.

END OF SECTION 10 73 26



Progressive Design Collaborative, Ltd

3101 Poplarwood Court, Suite 320 Raleigh, North Carolina 27604 919-790-9989

pdcengineers.com



ADDENDUM 01 – Electrical

DATE: March 2, 2023

PROJECT: Trexler Middle School Renovation and Site Improvements – Onslow County Schools PDC Project No. 22017

This Addendum, applicable to the work designed below, shall be understood to be and is a change to the bid documents and shall be part of and included in the contract for the above referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

Changes to Electrical Drawings:

- 1. Drawing E0-00
 - a. Sheet title revisions
- 2. Drawing E0-02 a. Sheet title revisions
- 3. Drawing E1-02
 - a. Sheet title revisions
- 4. Drawing E2-01
 - a. Intercom volume control removed
 - b. Conduit sleeves added
 - c. Notes revised for conduit sleeves
 - d. Additional wireless access points added
- 5. Drawing E2-02
 - a. Sheet title revisions
 - b. Intercom volume control removed
 - c. Conduit sleeves added
 - d. Notes revised for conduit sleeves
 - e. Receptacle notes added
 - f. Additional wireless access points added
- 6. Drawing E4-01
 - a. Camera locations revised
 - b. Camera conduit sleeves added
 - c. Notes for conduit sleeves added

- 7. Drawing E4-02
 - a. Sheet title revisions
 - b. Camera locations revised
 - b. Camera conduit sleeves added
 - c. Notes for conduit sleeves added
- 8. Drawing E6-04
 - a. Telecommunications riser updated

END OF ADDENDUM 01 - ELECTRICAL

Attachments: Sheets E0-00, E0-02, E1-02, E2-01, E2-02, E4-01, E4-02, E6-04

	GENERAL NOTES				SYMBC
				SYMBOL	
1.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRAD INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVO	ES ID IG SPAC			4' X 4' X 3/4" FIRE I
2.	ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING	SYSTEM	l.	•	CONDUIT UP OR I
3.	USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A			O	RECESS ACTIVAT
4	SEPARATE GREEN GROUND WIRE SHALL RUN WITH THE CIRCUIT CONDUCTORS IN EACH CIR	CUIT.			FACELESS GFI FC
7.	SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH T EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR.	HE			AFF. DIGITAL DIRECT C
5.	ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH STATE, LOCAL AND NA CODES AND ORDINANCES.	ATIONAL	-		SIMPLEX RECEPT
6.	THE NEW FIRE ALARM EQUIPMENT SHOWN SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. PROVIDE ALL WIRING AS REQUIRED FOR A COMPLETE S	SYSTEM		VFD	VARIABLE FREQU MECHANICAL COI
7.	THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND FINISHES BEFORE PU		E		CONTRACTOR.
.	INSTALLED. ANY DIFFERENCES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRA	ACTOR.			JUNCTION BOX W
3.	EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT F BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE RE	PROVIDE R EPLACEI	<u>-</u> D D		
à	AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.	דו א חשר	гн		DATA RACK PF
	PAINT, IN ACCORDANCE WITH ELECTRICAL GENERAL PROVISIONS.			TMGB	MDF ROOM MA TO DETAILS.
10. 11.	THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE	SE NOTE	ED.	TGB	IDF ROOM GRO DETAILS.
10	VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.			MGB	MAIN GROUNE
ı <i>۲</i> .	TOGETHER IN ONE MULTIPLE GANG BOX WITH MATCHING COVER AND PARTITION (IF REQUIR ELECTRICAL CONTRACTOR SHALL LOOK AT BOTH POWER AND LIGHTING PLAN TO DETERMIN	ed). Th Ie whic	E H	KP	NUMERICAL R
13.	SWITCH IS APPLICABLE. WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS OR THE ROOF, THEY SHAL	LBE		CR	SECURITY CAF
	PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROP SEALING METHODS.	POSED			ACCESSORIES
14.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CHAIN HUNG FIX LOCATED IN MECHANICAL OR OTHER SPACES WITH OTHER TRADES, SO AS NOT TO CONFLIC OTHER FOUNDMENT.	TURES		SPD	SURGE PROTE
15.	WHERE CONDUIT OR OUTLET BOXES CANNOT BE INSTALLED IN EXISTING WALLS FOR NEW D	EVICES	3		
	THEN PROVIDE AND INSTALL SURFACE MOUNTED WIREMOLD RACEWAYS. CONFIRM ALL WIF WITH ARCHITECT PRIOR TO INSTALLATION.	REMOLD)		
16.	OUTLET BOXES ON OPPOSITE SIDES OF THE FIRE RESISTANT WALL OR SHAFT ENCLOSURE I TWO HOURS OR LESS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAT	RATED N 24" AS	6		
17.	REQUIRED BY NUSBU VOL T PARAGRAPH 705.4.3. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ACCESS PANELS AS REQUIRED FOR ELECTR	RICAL			FLOOR WIRING WIRING AND C
	CODE COMPLIANCE AND TO ACCESS ANY INSTALLATION THAT WILL REQUIRE FUTURE MAINT THESE DOORS SHALL BE 20" X 20". EACH ROOM WITH A DRYWALL CEILING SHALL HAVE A MIN ONE ACCESS DOOR PROVIDED BY THE FLECTRICAL CONTRACTOR. THE DRYWALL SUBCONT	ENANCI	E.)F R		HOME RUN CI
19	WILL PROVIDE THE REQUIRED FRAMED OPENING AND INSTALL THE ACCESS DOORS.		 6		
10.	AT THE FARTHEST OUTLET OF POWER, HEATING AND LIGHTING LOADS, OR ANY COMBINATIONS SUCH LOADS. THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCU	UNG 39 N OF JITS TO	o		
	THE FARTHEST OUTLET SHALL NOT EXCEED 5%. A. WHERE THE CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 120V CI	RCUIT			
	EXCEED 50'-0" THE BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET NOT BE SMALLER THAN #10AWG. INCREASE THE BRANCH CIRCUIT CONDUCTOR SIZE AN ADD WIRE SIZE FOR FACH ADDITIONAL 125' FOR THE ENTIRE CIRCUIT. THE GROUND CONDUCTOR	- SHALL DITIONAL R SIZE	L		
	SHALL BE INCREASED PROPORTIONALLY TO THE INCREASED PHASE CONDUCTORS AS PER 250.122 (B).	NEC 201	1		
	B. WHERE THE CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 277V CIF EXCEEDS 125'-0", THE BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTL	CUIT ET SHA	LL		
	NOT BE SMALLER THAN #10 AWG. CONDUCTOR SIZE OF REMAINING BRANCH CIRCUIT SHALL AS NEEDED TO MEET ABOVE VOLTAGE DROP LIMITATIONS. THE GROUND CONDUCTOR SIZE INCREASED PROPORTIONALLY TO THE INCREASED PHASE CONDUCTORS AS PER NEC 2017 2	INCREA SHALL E 250.122(F	ISE BE B).		
19.	ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO BID. THE ELECTRICAL CONTRACTOR	SHALL	· ;)		
	TO ACCOMODATE THE REPLACEMENT OF MECHANCIAL EQUIPMENT AND PIPING. CLOSE COORDINATION WITH MECHANCIAL CONTRACTOR IS REQUIRED.	E3, E10	··)		
	ELECTRICAL SYSTEM AND EQUIPMENT				
	METHOD OF COMPLIANCE: ENERGY CODE: PRESCRIPTIVE_X_ PERFORMANCE				
	ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE				
	Lamp type required in fixture - See Fixture Schedule.				
	Ballast type used in the fixture - See Specifications. Number of ballasts in fixture - See Specifications. Total wattage per fixture - Varies - See Eixture Schedule				
	Total exterior wattage specified versus allowed: 5200 watts versus 12600 watts (whole building) Total exterior wattage specified versus allowed: 1500 watts versus 3000 watts				S
	ADDITIONAL PRESCRIPTIVE COMPLIANCE	A	~Sheet.Numbe E0-00	ELECTRIC	AL LEAD SHEET
	400.2 More Enclent TVAC Performance X 406.3 Reduced Lighting Power Density 406.4 Enhanced Lighting Controls 406.5 On Site Supply of Benevyed Lighting	بر (A	<u>manflitta</u>		DELAN-BASE BID DN PLAN - ALTERNA
	406.5 On-Site Supply of Renewable Energy 406.6 Provision of Dedicated Outdoor HVAC Air System 406.7 High Efficiency Service Water Heating	AF	E1-02		PLAN-BASE BID
	DESIGNER STATEMENT: To the best of my knowledge and belief, the design of this building		E2-01 E2-02 E4-01		AN - BASE BID AN - ALTERNATES 2 M/SECURITY DI AN
	complies with the electrical system and equipment requirements of the 2018 North Carolina State Building Code, Energy Conservation Code.		E4-01 E4-02 E5-01	FIRE ALAR	M/SECURITY PLAN - HEDULES AND RISE
		٢	E6-01	DETAILS	HEDULES AND DETA
		A	E6-02	DETAILS	
		<u> </u> کړ	E6-04 E6-05		ACSITE PLAN- ALTE
		I			

OL LEGEND (CONTINUED)		SYMBOL LEGEND	
DESCRIPTION	REMARKS SYMBO	DL DESCRIPTION	
E RETARDANT PLYWOOD EQUIPMENT BACKBOARD DCATION, PLACEMENT WITH OWNER.		R LUMINAIRE - LETTER DESIGNATES TYPE	EE FI
R DOWN AS INDICATED ON PLANS		R NIGHT LIGHT / EMERGENCY LIGHT FIXTURE - LETTER DESIGNATES TYPE	EE FI
TED FIRE RATED POKE-THROUGH FLOOR BOX			
FOR UNDERCOUNTER REFRIGERATOR - MOUNT AT +42"		EMERGENCY LIGHT FIXTURE - LETTER DESIGNATES TYPE	EE FI
CONTROLS FOR HVAC BY HVAC CONTRACTOR		BATTERY POWERED EMERGENCY FIXTURE - WALL MOUNTED SE	EE F
PTACLE FOR SUMP PUMP			
QUENCY DRIVE FOR HVAC EQUIPMENT FURNISHED BY ONTRACTOR AND WIRED BY THE ELECTRICAL		MECHANICALLY HELD LIGHTING CONTACTOR. # INDICATES CONTACTOR SQ	
/ES - SIZE AND QUANTITY AS SHOWN ON PLANS		MUMBER. PROVIDE NUMBER OF CONTACTS AS REQUIRED. PROVIDE HAND PROVIDE HAND OFF AUTO SWITCH FOR EACH LIGHTING CONTACTOR. NE	ROVI SEDI
WITH REMOVABLE COVER - SIZE PER NATIONAL DDE	μ	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH ISOLATED RELAY AND WIDE ANGLE LENS. TIME DELAYS OF NO LESS THAN 15 MINUTES. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.	ATT: PR(R LE
	(0	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH ISOLATED RELAY AND WIDE ANGLE LENS. TIME DELAYS OF NO LESS THAN 15 MINUTES. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.	ATT: PR(R LE
PROVIDED AND INSTALLED BY OWNER/OTHERS		CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR WITH 1100 SQ. FT.,	ATT
ROUND BAR. REFER TO SPECIFICATIONS AND REFER TO	(ē	360°, TWO SIDED COVERAGE. IN GANG TOILETS, MOUNT CENTRAL TO THE APPLY STALL AREA WITH RECEIVER AIMED TOWARD THE ENTRANCE. TIME OR DELAYS OF NO LESS THAN 15 MINUTES. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.	PRC RLE
ND BAR. REFER TO SPECIFICATIONS AND REFER TO DETAILS.		DUAL TECHNOLOGY WALL SWITCH SENSOR - COVERAGE: MAJOR MOTION WA	
REMOTE SECURITY KEYPAD. LOCATE AT 60" AFF.		OS MINUTES. MOUNT AT +48" TO TOP OF OUTLET BOX. INSTALL AS PER P&3 MANUFACTURER'S INSTRUCTIONS.	s o
ARD READER. LOCATE +48" TO TOP OF OUTLET.	S	SINGLE POLE TOGGLE SWITCH - 48" ABOVE FINISHED FLOOR TO TOP OF	
F PANELBOARD WITH NEUTRAL AND GROUND BUS ES.	S	3 3-WAY SWITCH - INSTALL AT 48" ABOVE FINISHED FLOOR TO TOP OF OUTLET. SWITCH COLOR SELECTED BY ARCHITECT.	
TECTIVE DEVICE	S	4-WAY SWITCH - INSTALL AT 48" ABOVE FINISHED FLOOR TO TOP OF OUTLET SWITCH COLOR SELECTED BY ARCHITECT.	
TEP DOWN TRANSFORMER 480-120/208 3 PHASE.			
T SWITCH, HEAVY DUTY	5	D FIXTURE PROVIDER FOR COMPATIBLE SWITCH TYPES.	
CONDUIT INSTALLED CONCEALED IN WALL SPACE OR HED CEILING	S	T DIGITAL TIMER SWITCH WITH AUDIO/VISUAL CAPABILITY TO MEET 2018 NCSBC ENERGY CODE	
NG AND CONDUIT LEG ON LIGHTING PLANS. UNDER NG AND CONDUIT ON POWER PLANS. UNDER GROUND CONDUIT ON SITE PLANS.	WPS	M 120 VOLT MOTOR RATED TOGGLE DISCONNECT SWITCH WITH JUNCTION BOX. WP INDICATES TO PROVIDE NEMA-3R SWITCH.	
CIRCUIT TO PANELBOARD	€	DUPLEX GROUNDING TYPE RECEPTACLE - AT 16" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UNLESS OTHERWISE NOTED	JBBE DVEI
	€	GFI DUPLEX RECEPTACLE - GROUND FAULT INTERRUPTION TYPE - INSTALL AT 16" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET, UNLESS OTHERWISE NOTED.	JBBE Fain Allf
	-€	GFI WP WEATHERPROOF DUPLEX GROUNDING TYPE RECEPTACLE - +16" ABOVE GRADE TO BOTTOM OF OUTLET BOX, UNLESS OTHERWISE NOTED.	JBBE \YM/ SE C
	-#	QUADRUPLEX GROUNDING TYPE RECEPTACLES IN A DOUBLE GANG BOX. MOUNT AT 16" AFF TO BOTTOM OF OUTLET UNLESS OTHERWISE NOTED.	JBBI
		SPECIAL PURPOSE RECEPTACLE - SIZE TO MATCH EQUIPMENT FURNISHED - NEMA CONFIGURATION TO MATCH EQUIPMENT FURNISHED - REFER TO PLANS - VERIFY WITH EQUIPMENT MANUFACTURER. MOUNT AT 16" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET UNLESS OTHERWISE NOTED.	ISS (ROVI QUIP QUAI
	TV	TELEVISION OUTLET AND DUPLEX RECEPTACLE - REFER TO DETAIL E003-07. CONFIRM LOCATION AND MOUNTING HEIGHT WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.	

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SHEET	INDEX -	ELECIRICAL

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#	QUADRUPLEX GROUNDING TYPE RECEPTACLES IN A DOUBLE GANG BOX MOUNT AT 16" AFF TO BOTTOM OF OUTLET UNLESS OTHERWISE NOTED.
	SPECIAL PURPOSE RECEPTACLE - SIZE TO MATCH EQUIPMENT FURNISHED - NEMA CONFIGURATION TO MATCH EQUIPMENT FURNISHED REFER TO PLANS - VERIFY WITH EQUIPMENT MANUFACTURER. MOUNT A 16" ABOVE FINISHED FLOOR TO BOTTOM OF OUTLET UNLESS OTHERWISE NOTED.
TV	TELEVISION OUTLET AND DUPLEX RECEPTACLE - REFER TO DETAIL E003- CONFIRM LOCATION AND MOUNTING HEIGHT WITH OWNER AND ARCHITE PRIOR TO ROUGH-IN.
<\ #	DATA OUTLET - TWO GANG OUTLET WITH SINGLE GANG PLASTER FLANG WITH 1 1/4" CONDUIT TO ABOVE ACCESSIBLE CEILING.
R	FIRE ALARM RELAY FOR HVAC EQUIPMENT SHUTDOWN
H < #CD	WALL MOUNTED FIRE ALARM HORN/STROBE - #CD INDICATES CANDELA RATING OF STROBE
H #CD	CEILING MOUNTED FIRE ALARM HORN/STROBE - #CD INDICATES CANDEL RATING OF STROBE
F	WALL MOUNTED FIRE ALARM PULL STATION - MOUNT AT +4'-0" TO TOP OF OUTLET BOX. PROVIDE LEXAN STOPPER II COVER.
RM	FIRE ALARM RELAY MODULE
MM	FIRE ALARM MONITOR MODULE
€S #CD	CEILING MOUNTED FIRE ALARM STROBE ONLY - #CD INDICATES CANDEL/ RATING OF STROBE
S #CD	WALL MOUNTED FIRE ALARM STROBE ONLY - #CD INDICATES CANDELA RATING OF STROBE
(SD)	CEILING MOUNTED FIRE ALARM SMOKE DETECTOR
HD	CEILING MOUNTED FIRE ALARM HEAT DETECTOR
(CO)	CARBON MONOXIDE DETECTOR
FACP	FIRE ALARM CONTROL PANEL
RACP	REMOTE FIRE ALARM CONTROL PANEL
	FIRE ALARM NAC PANEL
4	REMOTE ALARM INDICATOR - MOUNT 88" AFF.
TP	FIRE ALARM TAMPER SWITCH
FS	FIRE ALARM WATER FLOW SWITCH

			ABBREVIATIONS		
	REMARKS	ABBREV. A	DEFINITION AMPS, AMPERE, AMPERAGE	Sn	nith
	SEE FIXTURE SCHEDULE	AC A/C ADA	ABOVE COUNTER ALTERNATING CURRENT AMERICANS WITH DISABILITIES ACT		
ΡE	SEE FIXTURE SCHEDULE	AFF AFG AIC	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERE INTERRUPTING CURRENT		lett
	SEE FIXTURE SCHEDULE	AL ANSI ATSC	ALUMINUM AMERICAN NATIONAL STANDARD INSTITUTE AUTOMATIC TRANSFER SWITCH CONTROL	ARCHI	TECTURE
	SEE FIXTURE SCHEDULE	ATS A/V	AUTOMATIC TRANSFER SWITCH AUDIO/VISUAL	T 919 781 8582	
	SEE FIXTURE SCHEDULE	BAS BFC	BUILDING AUOTMATION SYSTEM BELOW FINISHED CEILING	F 919 781 3979 4600 Lake Boone Trail	
	SEE FIXTURE SCHEDULE	C CB CCTV	CONDUIT CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION	Suite 205 Raleigh, NC 27607	
DR HAND	SQUARE D CLXGXXXX PROVIDE # CONTACTS AS	CKT CT CU	CIRCUIT CURRENT TRANSFORMER COPPER	info@smithsinnett.com	
	WATTSTOPPER DT200 OR	D DB	DIMMING OR DIMMER DISTRIBUTION BOARD DIRECT CURRENT	ρο	C
'HAN	APPROVED EQUAL BY P&S OR LEVITON.	DL DISC	DAY-LIGHTING DISCONNECT SWITCH	Progressive Design Gol	laborative, ltd.
HAN	WATTSTOPPER DT300 OR APPROVED EQUAL BY P&S OR LEVITON.	E ECB EWC	EMERGENCY ENCLOSED CIRCUIT BREAKER ELECTRIC WATER COOLER	3101 Poplarwood Cou Raleigh, North Carol 919-790-99 License# (-0)	rt, Suite 320 ina 27604 89 183
FT., THE	WATTSTOPPER WT1105 OR APPROVED EQUAL BY P&S	EX FUT FA	EXISTING FUTURE FIRE ALARM	pdcengineers. PDC #210	00 com 07 <b>I</b>
	OR LEVITON.	FACP FATC FDR	FIRE ALARM CONTROL PANEL FIRE ALARM TERMINAL CABINET FEEDER	NORTH C.	
ION	WATTSTOPPER DSW-301	GAA GAP GEN	GENERATOR ALARM ANNUNCIATOR GENERATOR ALARM PANEL GENERATOR	SE	
	P&S OR LEVITON.	GEC GFI	GROUNDING ELECTRODE CONDUCTOR GROUND FAULT INTERRUPTER	024 Frank VGIN	651 <b>III</b>
DF		GFEP GFP	GROUND FAULT EQUIPMENT PROTECTION GROUND FAULT PROTECTION		UTKON UTKO
		GND GRS HH	GROUND GALVANIZED RIGID STEEL HAND HOLE		
		HOA HP IEEE	HAND-OFF AUTOMATIC HORSEPOWER INSTITUE OF ELECTRICAL AND ELECTRONICS ENGINEERS		
4		IG KCMIL KV	ISOLATED GROUND THOUSAND CIRCULAR MILS KILOVOLT	own is the ecture, this sent of the ingement ubject to rawing	ED TO
		KVA KW KWH	KILOVOLT AMPS KILOWATT KILOWATT HOURS	design sh nett Archit nort a cont viriten con viriten con the a drahite he Archite	itract. cture, P.A :ORMATT 24" X 36" S
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NC		MAX	FAULT PROTECTION MAXIMUM MAIN CIRCLUIT BREAKER	This drawi property of P.A. the ru property w Architect is legal action must be re	completior Smith Sinr THIS DRA BE PRINT
OOR	HUBBELL 5362-X WITH 97101 COVER	MCC MDP MIN	MAIN ORCOTT DICEALER MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL MINIMUM	Щ	
L AT VISE	HUBBELL GF-5362-X WITH STAINLESS STEEL S26 WALLPLATE	MH MLO MTS	MAN HOLE MAIN LUGS ONLY MANUAL TRANSFER SWITCH		
VE	HUBBELL GF-5362-X WITH TAYMAC HEAVY DUTY IN-	N/A NC NEC	NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRIC CODE	Z So	
OX.	HUBBELL 5362-X WITH 97101	N or NEUT NFPA NIC	NATIONAL ELECTRICAL MANUFACTORER'S ASSOCIATION NEUTRAL NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT		574
	PASS & SEYMORE -	NO O/H P	NORMALLY OPEN OVER HEAD POLE		285
ED - T AT /ISE	PROVIDE TO MATCH EQUIPMENT WITH COVER EQUALS: HUBBLE, LEVITON	PA PB PC	PUBLIC ADDRESS PULL BOX PHOTOCELL	Ž U	N N N
03-07.		PH PT RC	PHASE POTENTIAL TRANSFORMER POTENTIAL TRANSFORMER RECEPTACLE CONTACTOR	L R	DS
NGE		RSC SEC SPD	RIGID STEEL CONDUIT SECURITY SURGE PROTECTIVE DEVICE		AN
NOL		SW SWBD SWGB	SWITCH SWITCHBOARD SWITCHGEAR	CH S	CHI
A		TC TEMP TGB	TIME CLOCK TEMPORARY TECHNOLOGY GROUND BAR	Ц С С С С	IN L
		TGMB TTB	TECHNOLOGY MAIN GROUND BAR TELEPHONE TERMINAL BOARD		
		TYP. U/C	TYPICAL UNDER COUNTER		STR
OF		U/G UGE UL	UNDERGROUND UNDERGROUND ELECTRIC UNDERWRITERS' LABORATORIES		S ≻
		UON UPS V	UNLESS OTHERWISE NOTED UNINTERRUPTABLE POWER SUPPLY VOLTS, VOLTAGE		С <u>н</u>
ELA		VFD WG WP	VARIABLE FREQUENCY DRIVE WIRE GUARD WEATHERPROOF	NS NPF	12 E
<u></u> ,		XFER XFMR	TRANSFER TRANSFORMER		<b>~</b>
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## KEY NOTES:

- 1. DISCONNECT ALL LIGHTS, SWITCHES, RECEPTACLES, DATA OUTLETS, AND ANY OTHER DEVICES FROM THIS AREA. REMOVE ALL WIRING BACK TO SOURCE, AND DEMOLISH ALL CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
- 2. DISCONNECT AND DEMOLISH EXISTING DATA DEVICE. REMOVE CONDUIT AND CABLING BACK TO SOURCE.
- 3. DISCONNECT AND DEMOLISH EXISTING INTERCOM SYSTEM DEVICE. REMOVE CONDUIT AND CABLING BACK TO SOURCE.
- 4. EXISTING PULL BOX FOR DATA AND FIRE ALARM TO REMAIN IN PLACE. RETAIN ALL CONDUIT AND CABLING INCOMING TO BUILDING AT THESE POINTS.
- 5. FIRE ALARM TERMINAL CABINET AND PULL BOX ARE EXISTING TO REMAIN.
- 6. ALL FIRE ALARM DEVICES AND WIRING/CONDUIT IS TO REMAIN IN PLACE. PROTECT EXISTING DEVICES DURING DEMOLITION. REMOVE DEVICES IF REQUIRED FOR PAINTING OR DEMOLITION OF OTHER ITEMS AND PLACE TO THE SIDE FOR REINSTALLATION DURING NEW WORK PHASE.
- 7. EXISTING FIRE ALARM DEVICE IS TO BE REMOVED. REWORK EXISTING BOX AND CONDUIT AND WIRING FOR NEW LOCATION IN NEW RESTOOMS.
- 8. EXISTING WALL MOUNTED DATA RACK TO BE DISCONNECTED AND RELOCATED TO NEW LOCATION IN STORAGE 110. RE-ROUTE EXISTING DATA CABLING FROM PULL BOX HEAD-IN TO NEW LOCATION AND PREPARE FOR RECONNECTION.
- 9. DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE AND PULL STATION AND SET ASIDE. PREPARE FOR REINSTALLATION IN FURRED OUT WALL UNDER NEW CONSTRUCTION.

smith sinnett architecture
T 919 781 8582 F 919 781 3979
4600 Lake Boone Trail Suite 205 Raleigh, NC 27607
info@smithsinnett.com
pdc
<b>Progressive Design Collaborative, Ltd.</b> 3101 Poplarwood Court, Suite 320 Raleigh, North Carolina 27604 919-790-9989
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PDC #21007

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<b>ONSLOW COUNTY SCHOOLS</b>	TREXLER MIDDLE SCHOOL RENOVA	IMPROVEMENTS	112 E FOY STREET RICHLANDS, NC 285	

DRAWN BY: GS CHECKED BY: JTB DEMOLITION PLAN -BASE BID

ID DATE DESCRIPTION

2022017 20 FEB 2023



## GENERAL NOTES:

A. ALL DEVICES IN BUILDING UNLESS OTHERWISE NOTED ARE BEING DEMOLISHED. DEVICE COUNTS SHOWN ARE AN APPROXIMATION.

## KEY NOTES:

- 1. DISCONNECT ALL LIGHTS, SWITCHES, RECEPTACLES, DATA OUTLETS, AND ANY OTHER DEVICES FROM THIS AREA. REMOVE ALL WIRING BACK TO SOURCE, AND DEMOLISH ALL CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.
- 2. EXISTING EXTERIOR MDP TO BE DEMOLISHED. REMOVE WIRING AND CONDUIT BACK TO TRANSFORMER SECONDARY AND PREPARE FOR NEW SERVICE SECONDARIES OFF OF EXISTING UTILITY TRANSFORMER.
- 3. REMOVE EXISTING PANEL AND ALL FEEDERS/CONDUIT BACK TO SOURCE.
- 4. EXISTING PULL BOX FOR DATA AND FIRE ALARM TO REMAIN IN PLACE. RETAIN ALL CONDUIT AND CABLING INCOMING TO BUILDING AT THESE POINTS.
- 5. FIRE ALARM TERMINAL CABINET AND PULL BOX ARE EXISTING TO REMAIN.
- 6. ALL FIRE ALARM DEVICES AND WIRING/CONDUIT IS TO REMAIN IN PLACE. PROTECT EXISTING DIEVICES DURING DEMOLITION. REMOVE DEVICES IF REQUIRED FOR PAINTING OR DEMOLITION OF OTHER ITEMS AND PLACE TO THE SIDE FOR REINSTALLATION DURING NEW WORK PHASE.
- 7. EXISTING FIRE ALARM DEVICE IS TO BE REMOVED. REWORK EXISTING BOX AND CONDUIT AND WIRING FOR NEW LOCATION IN NEW RESTOOMS.
- 8. EXISTING WALL MOUNTED DATA RACK TO BE DISCONNECTED AND RELOCATED TO NEW LOCATION IN STORAGE 110. RE-ROUTE EXISTING DATA CABLING FROM PULL BOX HEAD-IN TO NEW LOCATION AND PREPARE FOR RECONNECTION.
- 9. DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE AND PULL STATION AND SET ASIDE. PREPARE FOR REINSTALLATION IN FURRED OUT WALL UNDER NEW CONSTRUCTION.



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# <u>KEYNOTES:</u>

- 1. CLEAN AND RELAMP EXISTING LIGHTING FIXTURES IN THIS AREA.
- 2. CONNECT NEW LIGHTING FIXTURES IN THIS AREA TO EXISTING LOCAL LIGHTING CIRCUIT LEFT AS SPARE FROM DEMOLITION.
- 3. PATCH AND REPAIR CEILING FROM DEMOLITION OF EXISTING BATHROOM WALLS, CEILINGS, AND LIGHTS.
- 4. ALL NEW EXIT AND EMERGENCY LIGHTING FIXTURES ARE CONNECTED TO LOCAL LIGHTING CIRCUIT UNSWITCHED.
- 5. ALL NEW CONDUIT IS TO BE RUN SURFACE MOUNTED WITH BOXES SURFACE MOUNTED FOR SWITCHES, ETC..
- 6. CONNECT NEW EM LIGHTING FIXTURES TO EXISTING LOCAL LIGHTING CIRCUIT UNSWITCHED.
- REWORK CIRCUIT AND SWITCHING OF LIGHT FIXTURE SHOWN IN STORAGE 110 DUE TO REMOVAL OF EXISTING WALL. FIXTURE SHALL NOW SWITCH ON AND OFF WITH 2X4 FIXTURES AND EXISTING SWITCH LOCATED AT EXTERIOR DOOR.



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KEYNOTES:

- 1. PROVIDE NEW 20A, 1P, SQUARE D BREAKER IN EXISTING PANEL FOR NEW WATER COOLER CIRCUIT AND CONNECT TO NEW GFI RECEPTACLE SHOWN. REFER TO PANEL SCHEDULE FOR FEEDER AND CONDUIT SIZING. COORDINATE RECEPTACLE LOCATION WITH EQUIPMENT PRIOR TO ROUGH-IN
- 2. PROVIDE NEW 20A, 1P, SQUARE D BREAKER IN EXISTING PANEL FOR NEW RECEPTACLE CIRCUIT AND CONNECT TO NEW GFI RECEPTACLE SHOWN. REFER TO PANEL SCHEDULE FOR FEEDER AND CONDUIT SIZING.
- 3. PROVIDE NEW 20A, 1P, SQUARE D BREAKER IN EXISTING PANEL FOR NEW REFRIGERATOR RECEPTACLE CIRCUIT AND CONNECT TO NEW GFI RECEPTACLE AND REMOTE GFI TRIP SWITCH SHOWN. REFER TO PANEL SCHEDULE FOR FEEDER AND CONDUIT SIZING.
- 4. PROVIDE 20A, 240V, 1P, MOTOR RATED SWITCH FOR EXHAUST FAN. PROVIDE NEW 20A, 1P, SQUARE D BREAKER IN EXISTING PANEL FOR CONNECTION TO EXHAUST FAN. REFER TO PANEL SCHEDULE FOR FEEDER AND CONDUIT SIZING.
- 5. RELOCATE EXISTING DATA/COMM RACK AND ASSOCIATED MAIN DATA WIRING FROM ORGINAL LOCATION IN BUILDING TO LOCATION SHOWN. ROUTE NEW DATA WIRING FROM CLASSROOMS BACK TO NEW LOCATION IN EXPOSED CONDUIT AND SURFACE MOUNT BOXES.
- 6. ALL NEW CONDUIT RUN IN BUILDING IS TO BE SURFACE MOUNTED WITH EXPOSED CONDUIT AND SURFACE MOUNTED BOXES FOR ALL NEW DEVICES
- 7. MOUNT DATA OUTLET BOX AT SAME HEIGHT AS RECEPTACLES ON THIS WALL.
- 8. REPAIR CONDUIT BREAK FOR FEEDER FROM EXISTING PANEL E1 TO EXISTING PANEL E6.
- (1) 3" CONDUIT SLEEVE WITH BUSHINGS RUN TIGHT TO CEILING THROUGH WALL FOR DATA CABLE ROUTING.
  (1) 2" CONDUIT SLEEVE WITH BUSHINGS RUN TIGHT TO
- 10. (1) 2" CONDUIT SLEEVE WITH BUSHINGS RUN TIGHT TO CEILING THROUGH WALL FOR DATA CABLE ROUTING.







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T 919 781 8582 F 919 781 3979 4600 Lake Boone Trail Suite 205 Raleigh, NC 27607 info@smithsinnett.com **NOC** ogressive Design Colla 3101 Poplarwood Court, Suite 320 Raleigh, North Carolina 27604 919-790-9989 License# C-0183 pdcengineers.com PDC #21007 Ш ဟ ER Ω 03/02/2023 ED TO RAWING IS FORMATT VTED ON A 24" X 36" (

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# KEYNOTES:

- 1. PROVIDE 60A, 240V, 3P, NEMA-3R, FUSED DISCONNECT SWITCH FOR NEW BARD UNIT. SEE PANEL SCHEDULE FOR FEEDER AND CONDUIT SIZING. FUSE PER MANUFACTURER'S RECOMMENDATIONS.
- 2. PROVIDE 60A, 240V, 3P, NEMA-3R, FUSED DISCONNECT SWITCH FOR NEW VRF UNIT. SEE PANEL SCHEDULE FOR FEEDER AND CONDUIT SIZING. FUSE PER MANUFACTURER'S RECOMMENDATIONS.
- 3. PROVIDE 20A, 240V, 2P, MOTOR RATED SWITCH FOR INTERIOR VRF UNITS. SEE PANEL SCHEDULE FOR FEEDER AND CONDUIT SIZING.
- 4. RELOCATE EXISTING DATA/COMM RACK AND ASSOCIATED MAIN DATA WIRING FROM SCHOOL MDF TO LOCATION SHOWN. ROUTE NEW DATA WIRING FROM CLASSROOMS BACK TO NEW LOCATION IN EXPOSED CONDUIT AND SURFACE MOUNT WIREMOLD.
- 5. ALL NEW CONDUIT RUN IN BUILDING IS TO BE SURFACE MOUNTED WITH WIREMOLD MOUNTED INLINE FOR RECEPTACLES AND DATA USE IN CLASSROOMS, DATA, AND BREAKROOMS AND SURFACE MOUNTED BOXES IN RESTROOMS.
- 6. PROVIDE WEATHER PROOF GFI RECEPTACLE AT UNIT SHOWN FOR SERVICE RECEPTACLE POWER. SEE PANEL SCHEDULE FOR FEEDER AND WIRE SIZE. CONNECT 120V, 1P CIRCUIT IN PANEL AS SHOWN.
- PROVIDE 20A, 120V, 1P, MOTOR RATED SWITCH FOR EXHAUST FAN. SEE PANEL SCHEDULE FOR FEEDER AND CONDUIT SIZING.
- 8. COORDINATE PLACEMENT WITH EQUIPMENT FINAL LOCATION PRIOR TO ROUGH-IN.
- 9. IN CLASSROOMS ONLY THIS DEVICE IS IN A SURFACE MOUNTED BOX AT THIS LOCATION.
- (1) 3" CONDUIT SLEEVE WITH BUSHINGS RUN ABOVE CEILING THROUGH WALL FOR DATA CABLE ROUTING.
   (1) 2" CONDUIT SLEEVE WITH BUSHINGS RUN ABOVE
- (1) 2" CONDUIT SLEEVE WITH BUSHINGS RUN ABOVE CEILING THROUGH WALL FOR DATA CABLE ROUTING.
   RECEPTACLES INSTALLED IN THIS AREA FALL UNDER BID
- ALTERNATE 5



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# GENERAL NOTES:

A. FIRE ALARM CONTRACTOR IS TO TEST AND VEIRFY ENTIRE SYSTEM IN THIS BUILDING BEFORE TURNOVER TO ONSLOW COUNTY SCHOOLS.

# KEY NOTES:

- 1. EXISTING FIRE ALARM DEVICES ARE TO REMAIN. ANY DEVICE THAT REMAINS WITH A STROBE SHALL BY SYNCRONIZED WITH ALL NEW DEVICES ADDED.
- 2. ANY NEW DEVICES ADDED TO SYSTEM ARE TO MATCH MANUFACTURER AND STYLE OF EXISTING DEVICES (NOTIFIER 500 BASED SYSTEM LOCATED IN MAIN BUILDING ELECTRICAL ROOM)
- 3. NEW DEVICES ARE SURFACE MOUNTED WHERE NOTED. ALL CONDUIT IS TO BE SURFACE ROUTED. PROVIDE NEW POWER PACKS TO SUPPORT ALL NEW DEVICES.
- 4. MOUNT MOTION SENSORS AT 10'-0" AFF TO TOP OF SENSOR.

- 5. EXISTING FIRE ALARM DEVICES TO BE RELOCATED PER NEW WALL FURR-OUT. MOUNT DEVICES FLUSH IN NEW FURRED OUT WALL AND RECONNECT EXISTING WIRING.
- (1) 3/4" CONDUIT SLEEVE WITH BUSHINGS RUN TIGHT TO CEILING THROUGH WALL FOR CAMERA CABLE ROUTING.

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CHECKED BY:	JTB
DRAWN BY:	GS



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5. EXISTING FIRE ALARM DEVICES TO BE RELOCATED PER NEW WALL FURR-OUT. MOUNT DEVICES FLUSH IN NEW FURRED OUT WALL AND RECONNECT EXISTING WIRING.

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	WALL FOR CAMERA CABLE ROUTING.
6.	(1) 3/4" CONDUIT SLEEVE WITH BUSHINGS RUN ABOVE CEILING THROUGH

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E4-02

		PANELBOARD: A LOCATION: STORAGE 110 MOUNTING: Surface ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN	NDER ALTERNATE	STAT M VC PH W E BID 2-1	<b>FUS:</b> AINS: 200 DLTS: 120 IASE: 3 IRES: 4	0 A 0/208 Wye		PAI M	NEL RATIN ICB RATIN FED FRO	IG: 200 A IG: 200 A DM: MDPN	MLO		PA	NEL NOT	<b>'ES</b> : Provii Provii Provii	DE DOOR WITH LOCK DE COPPER GROUND DE FULL SIZE NEUTR	AND HINGED TRIM AND NEUTRAL BUS AL BUS, U.O.N.		
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3	L		2#12 & 1#12G	3/4" 3/4"	1	20 A 20 A			0.96	6.01	0.96	6.01	60 A	3	1"	4#6 & 1#10G	VPHP-7	HVAC	С
7	L	LIGHTING	2#12 & 1#12G	3/4"	1	20 A	0.87	3.53			0.00	0.01							_
9	L	EXTERIOR LIGHTING (PC/TC)	2#12 & 1#12G	3/4"	1	20 A			0.15	3.53	0.75	0.50	35 A	3	3/4"	4#8 & 1#10G	VRF-1	HVAC	С
11 13	R	DATA RACK REC STORAGE 108D	2#10 &1#10G 2#12 & 1#12G	3/4"	1	20 A 20 A	0.36	0.08			0.75	3.53							
15	R	DATA RACK REC STORAGE 108D	2#12 & 1#12G	3/4"	1	20 A			0.36	0			20 A	2	3/4"	3#12 & 1#12G	IU-1 INTERIOR VRF UNIT	HVAC	2
17	R	COORDOR RECEPTACLES	2#12 & 1#12G	3/4"	1	20 A	0.01	0			0.72	0.08	20 A	2	3/4"	3#12 & 1#12G	IU-2 INTERIOR VRF UNIT	HVA	С
21	R	HOT BOX RECEPTACLE	2#12 & 1#12G	3/4"	1	20 A 20 A	0.01	0	0.18	0.04					0/48				_
23	R	HOT BOX RECEPTACLE FOR MOD	2#10 &1#10G	3/4"	1	20 A					0.18	0	20 A	2	3/4"	3#12 & 1#12G	IU-3A INTERIOR VRF UNIT		ز 
25 27	L		2#12 & 1#12G	3/4"	1	20 A	0.5	0.04	0.01	0			20 A	2	3/4"	3#12 & 1#12G	IU-3B INTERIOR VRF UNIT	HVA	С
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IVAC					0 KVA				0.00%	,			0 kVA				Total Connected Amps: 99.60 A		
Lighting Equipm	g nent				0 kVA 5 kVA 0 kVA				0.00% 125.00% 0.00%	6			0 kVA 7 kVA 0 kVA			Tot	Total Connected Amps:         99.60 A           Total Estimated Demand:         37.16 kV/A           ral Estimated Demand Amps:         103.16 A	٩	
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ckt ighting iquipm itcher itcher 1 3 5 7 9 11	LOAD TYPE R R	PANELBOARD: B LOCATION: STORAGE 110 MOUNTING: Surface ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN LOAD DESCRIPTION EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES	NDER ALTERNATE 2#12 & 1#12G 2#12 & 1#12G	STA1 M/ VC PH WI E BID 2-1	0 KVA 5 KVA 0 KVA 0 KVA 0 KVA FUS: 200 DLTS: 120 DLTS: 120 IASE: 3 IRES: 4 POLES 1 1 1	0 A 0/208 Wye TRIP AMPS 20 A 20 A	1.08	PAI N 0.54	0.00% 125.00% 0.00% 0.00% NEL RATIN ICB RATIN FED FRO 0.72 0.72	6 IG: 200 A IG: 200 A IG: 200 A DM: MDPN B 0.9 0.9 0.72	MLO	C 0.9 0	0 kVA 7 kVA 0 kVA 0 kVA <b>PA</b> PA 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	ES: PROVII PROVII PROVII PROVII 3/4" 3/4" 3/4" 3/4"	Tot DE DOOR WITH LOCK DE COPPER GROUND DE FULL SIZE NEUTR WIRE SIZE 2#12 & 1#12G 2#12 & 1#12G 2#12 & 1#12G 2#12 & 1#12G 2#12 & 1#12G 2#12 & 1#12G	Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         al Estimated Demand Amps:       103.16 A         al Estimated Demand Amps:       103.16 A         al And Neutral Bus       103.16 A         al Bus, U.O.N.       103.16 A	LOAI TYPE R R R R R	
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CKT 1 3 5 7 9 11 13 15 17	LOAD TYPE R R H	PANELBOARD: B LOCATION: STORAGE 110 MOUNTING: Surface ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN LOAD DESCRIPTION EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES	NDER ALTERNATE	STA1 M/ VC PH WI E BID 2-1	0 KVA 5 KVA 0 KVA 0 KVA 0 KVA FUS: AINS: 200 DLTS: 120 IASE: 3 IRES: 4 POLES 1 1 1 3	0 A 0/208 Wye 770 Wye 20 A 20 A 20 A 60 A	1.08	PAI N 0.54 1.08	0.00% 125.00% 0.00% 0.00% NEL RATIN ICB RATIN FED FRO 0.72 0.72 6.01	6 IG: 200 A IG: 200 A IG: 200 A DM: MDPN B 0.9 0.9 0.72 0 0 0	MLO	C 0.9 0 0	0 kVA 7 kVA 0 kVA 0 kVA <b>PA</b> <b>PA</b> 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	CONDUIT 3/4" 3/4" 3/4" 3/4"	Tot DE DOOR WITH LOCK DE COPPER GROUND DE FULL SIZE NEUTR 2#12 & 1#12G 2#12 & 1#12G 2#12 & 1#12G 2#12 & 1#12G 2#12 & 1#12G 2#12 & 1#12G 2#12 & 1#12G   	Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         and Hinged TRIM       103.16 A         AND HINGED TRIM       AND NEUTRAL BUS         AL BUS, U.O.N.       And NEUTRAL BUS         RECEPTACLES STORAGE 108D       RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101       RECEPTACLES 102         RECEPTACLES 100A, 102       SPARE         SPARE       SPARE         SPARE       SPARE	LOAI TYPE R R R R R	
CKT 1 3 5 7 9 11 13 15 17 19	Equipme Equipme Equipme R R R H	PANELBOARD: B LOCATION: STORAGE 110 MOUNTING: Surface ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN LOAD DESCRIPTION EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES VPHP-5 VPHP-6	NDER ALTERNATE 2#12 & 1#12G 2#12 & 1#12G 2#12 & 1#12G 4#6 & 1#10G 4#6 & 1#10G	STAT M. VC PH WI E BID 2-1	0 KVA 5 KVA 0 KVA 0 KVA 0 KVA FUS: 200 DLTS: 120 DLTS: 120 IASE: 3 IRES: 4 POLES 1 1 1 3 3	D A D/208 Wye TRIP AMPS 20 A 20 A 60 A 60 A	1.08 6.01	PAI N 0.54 1.08 1.08	0.00% 125.00% 0.00% 0.00% NEL RATIN ICB RATIN FED FRO 0.72 0.72 6.01	6 IG: 200 A IG: 200 A MC: 200 A MDPN B 0.9 0.72 0.72 0 0 0 0	MLO	C 0.9 0 0	0 kVA 7 kVA 0 kVA 0 kVA 7 kVA 0 kVA 0 kVA 20 k 20 k 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	ES: PROVII PROVII PROVII PROVII 3/4" 3/4" 3/4" 3/4" 3/4"	WIRE SIZE           2#12 & 1#12G	Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         al Estimated Demand Amps:       Istance         al Estimated Demand Estimated Demand Amps:       Istance         al Estimated Demand Estin Estimated Demand Estimated Demand Estimat	LOAI TYPE R R R R	
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CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 20	LOAD TYPE R R H H	PANELBOARD: B LOCATION: STORAGE 110 MOUNTING: Surface ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN NOTES: NEW PANEL UN EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES	NDER ALTERNATE	STAT M. VC PH WI E BID 2-1	0 KVA 5 KVA 0 KVA 0 KVA 0 KVA 0 KVA FUS: 200 DLTS: 120 IASE: 3 IRES: 4 POLES 1 1 1 3 3 1 1 1 1 1 1 1 1 1 1	D A D/208 Wye Z0 A 20 A 20 A 20 A 60 A 60 A 60 A	1.08 6.01 6.01	PAI N 0.54 1.08 1.08 0 0 0 0 0	0.00% 125.00% 0.00% 0.00% NEL RATIN ICB RATIN FED FRO 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	6 IG: 200 A IG: 200 A IG: 200 A DM: MDPN B 0.9 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	MLO	C 0.9 0.9 0 0 0 0 	0 kVA 7 kVA 0 kVA 0 kVA 7 kVA 0 kVA	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ES: PROVII PROVII PROVII PROVII 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	WIRE SIZE           2#12 & 1#12G           2#12 & 1#12G <tr t=""> <tr t=""></tr></tr>	Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         and Hinged TRIM       103.16 A         AND HINGED TRIM       AND NEUTRAL BUS         AL BUS, U.O.N.       Al BUS, U.O.N.         Control Description       Receptacles Storage 108D         RECEPTACLES CLASSROOM 101       RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101       RECEPTACLES 1002         RECEPTACLES CLASSROOM 101       SPARE         SPARE       SPARE         SPARE </td <td>A LOAI TYPE R R R R R</td> <td></td>	A LOAI TYPE R R R R R	
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	Equipme Equipme R R R H H	ent  PANELBOARD: B LOCATION: STORAGE 110 MOUNTING: Surface ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN  LOAD DESCRIPTION EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES VPHP-5 VPHP-6 SPACE SPACE SPACE SPACE SPACE SPACE	NDER ALTERNATE	STAT M/ VC PH WI E BID 2-1	0 KVA 5 KVA 0 KVA 0 KVA 0 KVA 0 KVA FUS: 200 DLTS: 120 IASE: 3 IRES: 4 POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	D A D/208 Wye Z0 A 20 A 20 A 60 A 60 A 60 A	6.01 6.01	PAI N 0.54 0.54 1.08 1.08 0 0 0 0 0 0 0 0 0 0 0 2 kVA	0.00% 125.00% 0.00% 0.00% NEL RATIN FED FRO 0.72 0.72 6.01 6.01 6.01 6.01 1.1.1 1.1.3	6 IG: 200 A IG: 200 A MG: 200 A MDPN B 0.9 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	MLO	C 0.9 0.9 0 0 0 0 0 0 0 0	0 kVA 7 kVA 0 kVA 0 kVA 7 kVA 0 kVA 0 kVA 20 k 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	ES: PROVII PROVII PROVII PROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9ROVII 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	WIRE SIZE           2#12 & 1#12G           2#12 & 1#12G <tr td=""></tr>	Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         and Hinged TRIM       AND NEUTRAL BUS         AND NEUTRAL BUS       A         AL BUS, U.O.N.       BUS, U.O.N.         RECEPTACLES STORAGE 108D       RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101       RECEPTACLES 102         RECEPTACLES 100A, 102       SPARE         SPARE       SPARE	A LOAI TYPE R R R R R	
<b>CKT</b> 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	Equipme Equipme R R R H H	ent  PANELBOARD: B LOCATION: STORAGE 110 MOUNTING: Surface ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN  LOAD DESCRIPTION EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES VPHP-5 VPHP-6 SPACE SPACE SPACE SPACE SPACE BREAKER TYPES:	NDER ALTERNATE	STAT M. VC PH WI E BID 2-1	0 KVA 5 KVA 0 KVA 0 KVA 0 KVA 0 KVA FUS: 200 DLTS: 120 IASE: 3 IRES: 4 POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	D A D/208 Wye Z0 A 20 A 20 A 60 A 60 A 60 A    AL LOAD:	6.01 6.01 1.1.7	PAI N 0.54 1.08 1.08 0 0 0 0 0 0 2 kVA ST - IND	0.00% 125.00% 0.00% 0.00% NEL RATIN FED FRO 0.72 0.72 0.72 0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1.0.72 1	6 IG: 200 A IG: 200 A IG: 200 A MC: MDPN B 0.9 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	MLO	C 0.9 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 kVA 7 kVA 0 kVA 0 kVA 7 kVA 0 kVA 0 kVA 20 k 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	ES: PROVII PROVII PROVII PROVII 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	WIRE SIZE           2#12 & 1#12G           2#12 & 1#12G <tr td=""></tr>	Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         al Estimated Demand Amps:       102         RECEPTACLES CLASSROOM 101       RECEPTACLES 100A, 102         RECEPTACLES 100A, 102       SPARE         SPARE       SPARE         SPARE       SPARE         SPARE       SPACE         SPACE       SPACE         SPACE       SPACE         SPACE       SPACE         SPACE       SPACE	A LOAI TYPE R R R R R	
<b>CKT</b> 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	LOAD TYPE R R H H	ent  PANELBOARD: B LOCATION: STORAGE 110 MOUNTING: Surface ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN  LOAD DESCRIPTION EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES VPHP-5 VPHP-6 SPACE SPACE SPACE BREAKER TYPES:	WIRE SIZE         2#12 & 1#12G         2#12 & 1#12G         2#12 & 1#12G         2#12 & 1#10G         4#6 & 1#10G         4#6 & 1#10G                                                                                                                                            <	STAT M/ VC PH WI BID 2-1	0 KVA 5 KVA 0 KVA 0 KVA 0 KVA 0 KVA FUS: AINS: 200 DLTS: 120 IASE: 3 IRES: 4 POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	D A D/208 Wye TRIP AMPS 20 A 20 A 20 A 20 A 60 A 60 A 60 A 60 A 60 A 61	1.08 1.08 6.01 6.01 14.7	PAI N 0.54 1.08 1.08 0 0 0 0 0 0 2 kVA ST - IND GFPE - I	0.00% 125.00% 0.00% 0.00% 0.00% NEL RATIN FED FRO 0.72 0.72 0.72 0.72 0.72 14.3 CATES SH	6 IG: 200 A IG: 200 A IG: 200 A MC NDPN B 0.9 0.9 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.	MLO	C 0.9 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 kVA 7 kVA 0 kVA 0 kVA 7 kVA 0 kVA	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CONDUIT 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	WIRE SIZE           2#12 & 1#12G           2#12 & 1#12G <tr td=""> <tr td=""></tr></tr>	Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         and Hinged TRIM       AND NEUTRAL BUS         AND NEUTRAL BUS       A         AL BUS, U.O.N.       BUS         RECEPTACLES STORAGE 108D         RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101         RECEPTACLES 102         RECEPTACLES 100A, 102         SPARE         SPACE         SPACE         SPACE         SPACE         SPACE         SPACE         SPACE         SPACE	A LOAI TYPE R R R R R	
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 Load C Recept	LOAD TYPE R R H H	ent  PANELBOARD: B LOCATION: STORAGE 110 MOUNTING: Surface ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN  LOAD DESCRIPTION EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES VPHP-5 VPHP-6 SPACE SPACE SPACE SPACE SPACE BREAKER TYPES:  ation	WIRE SIZE         2#12 & 1#12G         2#12 & 1#12G         2#12 & 1#12G         4#6 & 1#10G         4#6 & 1#10G	STAT M. VC PH WI E BID 2-1	0 kVA         5 kVA         0 kVA         POLES         1         1         1         3         3         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	D A D/208 Wye 20 A 20 A 20 A 20 A 60 A 60 A 60 A    AL LOAD: DEVICE d (VA)	6.01 6.01 1.1.08	PAI N 0.54 1.08 1.08 0 0 0 0 0 0 0 0 0 0 2 kVA ST - IND GFPE - I	0.00% 125.00% 0.00% 0.00% 0.00% NEL RATIN FED FRO 0.72 0.72 0.72 0.72 0.72 1.0.00% 0.01 1.0.00% 0.00	G G A A A A A A A A A A A A A	MLO	C 0.9 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 kVA 7 kVA 0 kVA 0 kVA 7 kVA 0 kVA 0 kVA	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ES: PROVII PROVII PROVII PROVII 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	WIRE SIZE           2#12 & 1#12G           2#12 & 1#12G <tr td=""> <tr td=""></tr></tr>	Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         and Hinged TRIM       And Neutral Bus         AND NEUTRAL BUS       All BUS, U.O.N.         LOAD DESCRIPTION       RECEPTACLES STORAGE 108D         RECEPTACLES CLASSROOM 101       RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101       RECEPTACLES 102         RECEPTACLES CLASSROOM 101       RECEPTACLES 100A, 102         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPACE       SPACE         SPACE       SPACE         SPACE       SPACE         SPACE       SPACE	A LOAI TYPE R R R R R - - - - - - - - - - - - -	
CKT           1           3           5           7           9           11           13           15           17           19           21           23           25           27           29           Load C           Recept           Motor	LOAD TYPE R R H H	PANELBOARD: B LOCATION: STORAGE 110 MOUNTING: Surface ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN NOTES: NEW PANEL UN EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES VPHP-5 VPHP-6 SPACE SPACE SPACE SPACE SPACE SPACE	WIRE SIZE         2#12 & 1#12G         2#12 & 1#12G         2#12 & 1#12G         2#12 & 1#10G         4#6 & 1#10G         4#6 & 1#10G	STA1 M/ VC PH W/ E BID 2-1	0 kVA         5 kVA         0 kVA	D A D/208 Wye TRIP AMPS 20 A 20 A 20 A 20 A 60 A 60 A 60 A 60 A 61 A 61 A 61 A 62 A 62 A 63 A 64 A 64 A 65	1.08 6.01 6.01 6.01 14.7	PAI N 0.54 1.08 1.08 0 1.08 0 0 0 0 0 0 0 2 kVA ST - IND GFPE - II	0.00% 125.00% 0.00% 0.00% NEL RATIN FED FRO 0.72 0.72 0.72 0.72 0.72 14.3 ICATES SH NDICATES Demand Fa 10.00% 0.00%	IG:       200 A         IG:       0.9         IG:       0         IG:       0         IG:       0         IG:	MLO	C 0.9 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 kVA 7 kVA 0 kVA 0 kVA 7 kVA 0 kVA 0 kVA	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CONDUIT 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4	WIRE SIZE           2#12 & 1#12G           2#12 & 1#12G <tr td=""> <tr td=""></tr></tr>	Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         a       a         a AND HINGED TRIM       a         AND NEUTRAL BUS       a         AL BUS, U.O.N.       a         RECEPTACLES STORAGE 108D       receptacles classroom 101         RECEPTACLES CLASSROOM 101       receptacles 102         RECEPTACLES CLASSROOM 101       receptacles 102         RECEPTACLES CLASSROOM 101       spare         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPACE       SPACE		
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 Load C Recept Motor HVAC	LOAD TYPE R R R H H	ent  PANELBOARD: B LOCATION: STORAGE 110 MOUNTING: Surface ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN  LOAD DESCRIPTION EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES VPHP-5 VPHP-6 SPACE SPACE SPACE SPACE BREAKER TYPES:  ation	NDER ALTERNATE	STA1 M. VC PH WI E BID 2-1	0 kVA         5 kVA         0 kVA         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td>D A D/208 Wye 20 A 20 A 20 A 20 A 60 A 60 A 60 A 60 A 60 A 60 A 60 A 6</td><td>6.01 6.01 6.01 6.1.08</td><td>PAI N 0.54 1.08 1.08 0 1.08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>0.00% 125.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%</td><td>G: 200 A G: 200 A G: 200 A MG: 200 A MDPN B 0.9 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72</td><td>MLO</td><td>C 0.9 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>0 kVA 7 kVA 0 kVA 0 kVA</td><td>POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>ES: PROVII PROVII PROVII PROVII 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"</td><td>WIRE SIZE           2#12 &amp; 1#12G                                                                                                              <!--</td--><td>Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         and Hinged TRIM       AND NEUTRAL BUS         ALBUS, U.O.N.       ALBUS, U.O.N.         RECEPTACLES STORAGE 108D       RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101       RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101       RECEPTACLES 102         RECEPTACLES CLASSROOM 101       RECEPTACLES 100A, 102         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPACE       SPACE         SPACE       SPACE</td><td></td><td></td></td></td<>	D A D/208 Wye 20 A 20 A 20 A 20 A 60 A 60 A 60 A 60 A 60 A 60 A 60 A 6	6.01 6.01 6.01 6.1.08	PAI N 0.54 1.08 1.08 0 1.08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00% 125.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	G: 200 A G: 200 A G: 200 A MG: 200 A MDPN B 0.9 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72	MLO	C 0.9 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 kVA 7 kVA 0 kVA 0 kVA	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ES: PROVII PROVII PROVII PROVII 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	WIRE SIZE           2#12 & 1#12G           2#12 & 1#12G </td <td>Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         and Hinged TRIM       AND NEUTRAL BUS         ALBUS, U.O.N.       ALBUS, U.O.N.         RECEPTACLES STORAGE 108D       RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101       RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101       RECEPTACLES 102         RECEPTACLES CLASSROOM 101       RECEPTACLES 100A, 102         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPACE       SPACE         SPACE       SPACE</td> <td></td> <td></td>	Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         and Hinged TRIM       AND NEUTRAL BUS         ALBUS, U.O.N.       ALBUS, U.O.N.         RECEPTACLES STORAGE 108D       RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101       RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101       RECEPTACLES 102         RECEPTACLES CLASSROOM 101       RECEPTACLES 100A, 102         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPACE       SPACE		
CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 20 Coad C Recept Votor VAC ighting CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 CKT 10 23 25 27 29 CKT 10 21 23 25 27 29 CKT 10 21 23 25 27 29 CKT 10 21 23 25 27 29 CKT 10 21 23 25 27 29 CKT 10 21 23 25 27 29 CKT 10 21 23 25 27 29 CKT 10 21 23 25 27 29 CKT 10 21 23 25 27 29 CKT 10 21 25 27 29 CKT 10 21 25 27 29 CKT 10 21 25 27 29 CKT 10 21 25 27 29 CKT 10 21 25 27 29 CKT 10 21 25 27 29 CKT 10 21 25 27 29 CKT 10 21 25 27 29 CKT 10 21 25 27 29 CKT 10 21 25 27 29 CKT 10 20 20 20 20 20 20 20 20 20 2	LOAD TYPE R R R H H Classifica acle	PANELBOARD: B LOCATION: STORAGE 110 MOUNTING: Surface ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES EXTERIOR RECEPTACLES VPHP-5 VPHP-6 SPACE SPACE SPACE SPACE SPACE SPACE	WIRE SIZE         2#12 & 1#12G         2#12 & 1#12G         2#12 & 1#12G         2#12 & 1#10G         4#6 & 1#10G         4#6 & 1#10G	STA1 M/ VC PH W/ E BID 2-1	0 kVA         5 kVA         0 kVA	D A D/208 Wye TRIP AMPS 20 A 20 A 20 A 20 A 60 A	<ul> <li>1.08</li> <li>6.01</li> <li>6.01</li> <li>6.01</li> <li>1.1.08</li> <li>1</li></ul>	PAI N 0.54 1.08 1.08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00% 125.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	6 IG: 200 A IG: 200 A IG: 200 A DM: MDPN B 0.9 0.9 0.9 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.72 0.	MLO	C 0.9 0.9 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 kVA 7 kVA 0 kVA 0 kVA 7 kVA 0 kVA	POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CONDUIT 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	Tot         DE DOOR WITH LOCK         DE COPPER GROUND         DE FULL SIZE NEUTR         2#12 & 1#12G	Total Connected Amps:       99.60 A         Total Estimated Demand:       37.16 kV//         al Estimated Demand Amps:       103.16 A         And Hinged TRIM       AND NEUTRAL BUS         ALBUS, U.O.N.       ALBUS, U.O.N.         RECEPTACLES STORAGE 108D       RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101       RECEPTACLES CLASSROOM 101         RECEPTACLES CLASSROOM 101       RECEPTACLES 100A, 102         RECEPTACLES STORAGE 108D       SPARE         SPARE       SPARE         SPARE       SPARE         SPARE       SPARE         SPACE       SPACE         SPACE		

		PANELBOARD: MDPN LOCATION: BLDG EXTERIOF MOUNTING: Surface ENCL NEMA: TYPE 3R MIN AIC: 22,000 NOTES: NEW PANEL UN	R I <b>DER ALTERNA</b> '	STAT M/ VC PH WI TE BID 2-1	<b>US:</b> AINS: 800 DLTS: 120 ASE: 3 RES: 4	) A )/208 Wye		PAN M	NEL RATIN ICB RATIN FED FRO	G: 800 A G: 800 A M M: UTILIT	MCB Y TX		P	ANEL NOT	r <b>es</b> : provi provi provi	DE DOOR WITH LOCK DE COPPER GROUND DE FULL SIZE NEUTR	( AND HINGED TRIM ) AND NEUTRAL BUS AL BUS, U.O.N.		
скт	LOAD TYPE	LOAD DESCRIPTION	WIRE SIZE	CONDUIT	POLES	TRIP AMPS		A		В		с	TRIP AMPS	POLES	CONDUIT	WIRE SIZE	LOAD DESCRIPTION	LOAD TYPE	ск
1							12.39	14.72											2
3		NEW PANEL A	4#3/0 & 1#6G	2.5"	3	200 A			11.25	14.36			200 A	3	2.5"	4#3/0 & 1#6G	NEW PANEL B		4
5											12.24	12.92							6
7							14.8	16.15											8
9	_	NEW PANEL C	4#3/0 & 1#6G	2.5"	3	200 A			14.98	13.99			200 A	3	2.5"	4#3/0 & 1#6G	NEW PANEL D		10
11											14.36	14.17							12
13	_		4#1/0 & 1#6G	6			7	0											14
15	_	BUILDING)	(SIZED FOR	2"	3	100 A			8	0			20 A	3			SPARE		16
17			VOLTAGE								8	0							18
19							0						-					-	20
21	-	SPARE			3	20 A			0					3			SPACE		22
23											0		-						24
20	-	SDACE											-	2			SDACE	-	20
27	-	SPACE															SPACE		20
23					тот		65.04	 5 k\/A	62.58		61.6	 9 k\/A							
							00.00	0 10 10	02.00	5	01.0	0 11 11 1							
		BREAKER TYPES:	LO - INDICATE	ES "LOCK-ON	"			ST - INDI	CATES SH	UNT TRIP	DEVICE			AFCI - IN	NDICATES A	RC FAULT PROTECTI	ED DEVICE		
			GFCI - INDICA	TES GROUNE	D FAULT I	DEVICE		GFPE - IN	NDICATES	GROUND	FAULT FO	OR EQUIPI	IENT						
Load	Classifica	ation		Conne	ected Loa	d (VA)		D	emand Fa	ctor		Es	timated De	emand			Panel Totals		
Recep	tacle				21 kVA				74.13%				15 kVA						

# GENERAL NOTES:

- A. ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH UTILITY COMPANY PRIOR TO COMMENCING WORK.
- B. NEW WORK SHOWN IN BOLD LINEWEIGHT, EXISTING SHOWN IN HALFTONE/LIGHT LINEWEIGHT.

# KEYNOTES:

Lighting

Equipment

Kitchen Equipment

PROVIDE NEW 800A, NEMA-3R 208V I-LINE PANEL TO REPLACE SERVICE ENTRANCE PANEL "MDPN" LOCATED AT BLDG EXTERIOR. 1.

0 kVA

0 kVA

5 kVA 0 kVA

0 kVA



NG:	800 A
NG:	800 A MCB
ом∙	

Total Connected Load:	
Total Connected Load:	100.01.11.11
	189.31 kVA
Total Connected Amps:	525.48 A
Total Estimated Demand:	185.28 kVA
Total Estimated Demand Amps:	514.28 A
	Total Connected Amps: Total Estimated Demand: Total Estimated Demand Amps:

	<u>LEGEND</u>
	EXISTING TO REMAIN
	NEW
M.C.B.	MAIN CIRCUIT BREAKER
M.L.O.	MAIN LUGS ONLY
GEC	GROUNDING ELECTRODE CONDUCTOR
$\Theta$	RECONNECTION OF EXISTING

4-#1/0 & 1-#6GND IN 2"C (SIZED FOR VOLTAGE DROP)





ONSLOW COUNTY SCHOOLS	TREXLER MIDDLE SCHOOL RENOVATION &	IMPROVEMENTS	112 E FOY STREET RICHLANDS, NC 28574	
A 0	3/02/23 DATE	Adde	ndum 01 DESCRIPTI	ON
DRA CHE PA AN DIA	WN BY CKED NEL D RI AGRA	^{7:} BY: SE SE	HEDUR	GS JTB JLES

LOAD T         LOAD DESCRIPTION T         WHE BZZ         CONCUT         TAPE T         TAPE T         TA         B         C         MARE T           1         1         1         1         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.12         0.1         0.12         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1         0.1 <t< th=""><th></th><th></th><th>LOCATION: CORRIDOR 115 MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN</th><th>IDER ALTERNATI</th><th>М/ VC РН WI Ξ BID 2-1</th><th>AINS: 200 AINS: 200 AITS: 120 ASE: 3 RES: 4</th><th>IEL RATIN ICB RATIN FED FRO</th><th colspan="5">EL RATING: 200 A B RATING: 200 A MLO FED FROM: MDPN</th></t<>			LOCATION: CORRIDOR 115 MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UN	IDER ALTERNATI	М/ VC РН WI Ξ BID 2-1	AINS: 200 AINS: 200 AITS: 120 ASE: 3 RES: 4	IEL RATIN ICB RATIN FED FRO	EL RATING: 200 A B RATING: 200 A MLO FED FROM: MDPN						
Dir         Top         Color         Dir         Dir </th <th></th> <th>LOAD</th> <th></th> <th></th> <th></th> <th></th> <th>TRIP</th> <th></th> <th>A</th> <th></th> <th>в</th> <th></th> <th>с</th> <th>TRIP</th>		LOAD					TRIP		A		в		с	TRIP
1         1         1         1         1         2         1         2         1         2         1         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	СКТ	TYPE	LOAD DESCRIPTION	WIRE SIZE	CONDUIT	POLES	AMPS							AMPS
a         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         b         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c         c	1	R	RECEPTACLES CLASSROOM 106	2#12 & 1#12G	3/4"	1	20 A	1.08	0.9	0.70				20 A
b         b         c         CALCULATIONS MA         Market B         Market B<	3	R	RECEPTACLES 104A, 106	2#12 & 1#12G	3/4"	1	20 A			0.72	0.9			20 A
1         PECKPY PACES ADDRAW 2012         272 8 110         274         1         274         00         00         9.37         28.8         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00         00	5	R	RECEPTACLES 104	2#12 & 1#12G	3/4"	1	20 A					0.9	0.9	20 A
0         1         1000         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	7	R	RECEPTACLES CLASSROOM 104	2#12 & 1#12G	3/4"	1	20 A	0.9	0.9					20 A
Image: Second	9									6.01	6.36			
13         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	11	HVAC	VPHP-4	4#6 & 1#10G	1.25"	3	60 A					6.01	6.36	60 A
15         38 MAC         -         1         21 A         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0        0        0         0<	13							6.01	6.36					
1         SRAME         -         1         21A         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<	15		SPARE			1	20 A			0	0			20 A
0         SPARE         -         1         20.4         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<	17		SPARE			1	20 A					0	0	20 A
1         SPARE          1         27.4         20.4         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <t< td=""><td>19</td><td></td><td>SPARE</td><td></td><td></td><td>1</td><td>20 A</td><td>0</td><td>0</td><td></td><td></td><td></td><td></td><td>20 A</td></t<>	19		SPARE			1	20 A	0	0					20 A
23         3PMTE         -         1         28 A         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	21		SPARE			1	20 A			0	0			20 A
20         SPACE         -         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td>23</td> <td></td> <td>SPARE</td> <td></td> <td></td> <td>1</td> <td>20 A</td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>0</td> <td>20 A</td>	23		SPARE			1	20 A					0	0	20 A
27         38YACE         -         1         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -<	25		SPARE			1	20 A	0	0					20 A
20         SHACE         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -          Biter Corr	27		SPACE			1								
TOTAL LOAD:         101 STAVA         1336 VAX         14 TXVA           BREAKER TYPES:         LO-NIDICATES GLOUND FAULT DEVICE GPE - INDICATES GROUND FAULT FOR BLOUPENT           Connected Load (VA)         DODS: 10007         ST-NIDICATES SHUTT TRP DEVICE GPE - INDICATES GROUND FAULT FOR BLOUPENT           Connected Load (VA)         DODS: 10007         ST-NIDICATES HUT TRP DEVICE GPE - INDICATES GROUND FAULT FOR BLOUPENT           Connected Load (VA)         DODS: 10007         ST-NIDICATES HUT TRP DEVICE GPE - INDICATES GROUND FAULT FOR BLOUPENT           PANELBOARD: E3 SIDENT BUDONTING: CONRECOR MONTING: Rosesed VOLTS 12020 W/P ENCL MEM: Type 1         PANEL RATING: 20 A MICE RATING RECEIPTACE MICE RATING RECEIPTACE MICE RATING RECEIPTACES - LOAD DESCRIPTION MICE RATING RECEIPTACES - LOAD MICE MICE MICE MICE MICE MICE MICE MICE	29		SPACE			1								
BRAKER TYPES:         L0 - INDICATES 'COCK-ON GFG1 - INDICATES OROUND FAULT EVER:         ST - INDICATES SHOUT TRY DEVEC GFFE - INDICATES GROUND FAULT EVER:           GRO CINE COLSPAN: Segment:         ST - INDICATES SHOUT TRY DEVEC GFFE - INDICATES GROUND FAULT EVER:           Segment:         CONSCIENCES         ST ATUS: INDICATES GROUND FAULT EVER:         ST ATUS: INDICATES CONTROLOGY         PAREL BATMS: 200. NOTA:         O NOA         O NOA           ST ATUS: INDICATES CONTROLOGY         MARE: STATUS: INDICATES CONTROLOGY         PAREL BATMS: 200. NOTA:         PAREL BATMS: 200. NOTA:         CONTROLOGY         O NOA           NOTE:: EXISTING CONTROLOGY         MARE: STATUS: INDICATES CONTROLOGY         PAREL BATMS: 200. NOTA:         PAREL BATMS: 200. NOTA:         NOTE:: EXISTING CONTROLOGY         PAREL BATMS: 200. NOTA:         NOTE:: EXISTING CONTROLOGY         NOTE:: EXISTING CONTROLOGY         PAREL BATMS: 200. NOTA:         PAREL BATMS: 200. NOTA:         NOTE:: EXISTING CONTROLOGY         PAREL BATMS: 200. NOTE:: EXISTING CONTROLOGY         PAREL BATMS: 200. NOTE:: EXISTING CONTROLOGY         NOTE:: EXISTING CONTROLOGY         PAREL BATMS: 200. NOTE:: EXISTING CONTROLOGY         PAREL BATMS: 200. NOTE:: EXISTING						тот	AL LOAD:	16.15	5 kVA	13.99	9 kVA	14.1	7 kVA	
BREAKER TYPES:         LO-INDICATES STUDICATURE         ST-INDICATES GROUND FAULT EVENCE GFE.INDICATES GROUND FAULT FOR EQUIPMENT           Control Classification         Connected Load (VA)         Demand Factor         Estimates Group Factor           String Line Classification         Connected Load (VA)         Demand Factor         Estimates Group Factor         OVA           String Line Classification         0.010A         0.005%         0.005%         OVA           String Line Classification         0.010A         0.005%         0.005%         OVA           String Line Classification         0.010A         0.005%         0.005%         0.005%           String Line Classification         0.010A         0.007%         0.000         0.005%         0.000           String Line Classification         NUMBER SIZE         String Line Classification         NUMBER SIZE         N														_
GFCI - INDICATES GROUND FAULT FOR EQUIPMENT         GPRE - INDICATES GROUND FAULT FOR EQUIPMENT           cond Classification         Connected Load VAA         Demand Factor         Estimates Exceptadate           MAC         0.1XA         0.00%         0.1XA           Moor         0.1XA         0.00%         0.1XA           Moor         0.1XA         0.00%         0.1XA           Moor         0.1XA         0.00%         0.1XA           Moor         0.1XA         0.00%         0.1XA           Moorne         0.1XA         0.00%         0.1XA           Moorne         0.1XA         0.00%         0.1XA           Moorne         0.1XA         0.00%         0.1XA           Moorne         0.1XA         0.00%         0.0XA           Moorne         0.1XA         0.00%         0.0XA           Moorne         0.0XA         0.00%         0.0XA           Moorne         0.0XA         0.00%         0.0XA           Moorne         0.0XA         0.00%         0.0XA           Moorne         VICITs         1.02020 Mays         MEES           Moorne         VICITs         1.02020 Mays         MEES           MOORNE         CANDIN			BREAKER TYPES:	LO - INDICATES	UOCK-ON	"			ST - INDI	CATES SH	UNT TRIP	DEVICE		
Load Description         Connected Law (M)         Demond Factor         Estimate           21 MA         100 00%         000%         000%           Name         21 MA         000%         000%           Name         0 MA         000%         000%           Segments         0 MA         000%         0 N           Segments         0 MA         000%         0 N           Generation         0 MA         000%         0 N           LOATION:         CORRIDOR         MARS: 200 AMLO         PAREL RATING:         0 A           MIN AGC: 22.00         WRES: 4         MC         200 A         NOTE: EXISTING CHEMICS         1         1         1         1         1         1         1         1         1         1         1				GFCI - INDICATI	ES GROUNI	) FAULT [	DEVICE		GFPE - IN	DICATES	GROUND	FAULT FC	or Equipi	IENT
Despensive         Divide         Divide <thdivide< th=""> <thdivide< th=""> <thdivide< td=""><td>Load</td><td>Classificat</td><td>tion</td><td></td><td>Conne</td><td>ected Loa</td><td>d (VA)</td><td></td><td>D</td><td>emand Fa</td><td>ctor</td><td></td><td>Es</td><td>timated I</td></thdivide<></thdivide<></thdivide<>	Load	Classificat	tion		Conne	ected Loa	d (VA)		D	emand Fa	ctor		Es	timated I
Model         DIVA         0.00%         DIVA           UNA         0.07%         0.07%         0.07%         0.07%           Uppleng         0.04A         0.07%         0.07%         0.07%           Uppleng         0.04A         0.07%         0.07%         0.07%           Stephenet         0.04A         0.07%         0.07%         0.07%           UNA         0.07%         0.07%         0.07%         0.07%           MONTRING Researd         VUTB: 1202/08 Myp         MCB ATING:         20.4           MONTRING Researd         VUTB: 1202/08 Myp         MCB ATING:         20.4           MIN AC: 2000         WREB: 4         NOTES: EXISTING CANTHO         PARE 13         FED FROM: E6           MIN AC: 2000         WREB 42         NOTES: EXISTING CANTHO         -         1         20.4         1         1         20.4           1         E         EXISTING CANTHO         -         1         20.4         1         1	Recept	tacle				7 kVA				100.00%	 I			7 kV/
UNAC         D KVA         D KVA <th< td=""><td>Motor</td><td></td><td></td><td></td><td></td><td>0 kVA</td><td></td><td></td><td></td><td>0.00%</td><td></td><td></td><td></td><td>0 kV/</td></th<>	Motor					0 kVA				0.00%				0 kV/
Upper displayment         D KVA         0.00%         0 KVA           Gradem Equipment         D KVA         0.00%         0 KVA           Gradem Equipment         D KVA         0.00%         0 KVA           VIA         0.00%         0 KVA         0.00%         0 KVA           Gradem Equipment         D KVA         0.00%         0 KVA         0.00%         0 KVA           Via Construction         CORRELOCATION: CORRIDOR         MAIR: 20.00 AUCITS: 120.208 Wye         PAREL RATING: 20.0 A         MAIR: 20.00 AUCITS: 120.208 Wye         MACE RATING: 20.0 A           MIN ACI: 20.00         WRES 14         PRASE: 3         FED FROM: E5         FMPR         A         8         C         TAPE           1         E         EXSTING LIGHTING         -         1         20.0         1         1         1         20.2           3         E         EXSTING LIGHTING         -         1         20.0         1         1         1         20.2           1         E         EXSTING LIGHTING         -         1         20.4         1         1         1         20.2           1         E         EXSTING LIGHTING         -         1         20.4         1         1	HVAC					0 kVA				0.00%				0 kV/
Dependent Guene Equipment         D KVA         0.00%         0 K           Bit/A         0.00%         0.00%         0 K           Bit/A         0.00%         0.00%         0 K           PANELBOARD: E3         STATUS: LOCATION: CORRIDOR         MAINS: 200 A MLO         PANEL RATING: 200 A MCB RATING: 200	_ightin	ıg				0 kVA				0.00%				0 kV/
Otivite         Otivite <t< td=""><td>Equipn</td><td>nent</td><td></td><td></td><td></td><td>0 kVA</td><td></td><td></td><td></td><td>0.00%</td><td></td><td></td><td></td><td>0 kV/</td></t<>	Equipn	nent				0 kVA				0.00%				0 kV/
PANELBOARD: E3         STATUS:           LOCATION: CORRIDOR         MAINS: 200 A MLO         PANELRATINS: 200 A           MOUNTING: Recessed         VOLTS: 120208 W/ye         MOE RATING:           ENCL NEAK: Type 1         PHASE: 3         FED FROM: E6           MIN AD: 22.001         WRES: 4         1         1           TOTE:         EVISTING LIGHTING         -         1         20.0           8         E         EXISTING LIGHTING         -         1         20.4         1         1         20.7           5         E         EXISTING LIGHTING         -         1         20.4         1         1         20.7           6         E         EXISTING LIGHTING         -         1         20.4         1         1         20.7           16         E         EXISTING LIGHTING         -         1         20.4         1         1         20.7           17         E         EXISTING LIGHTING         -         1         20.4         1         1         20	Kitcher	n Equipme	nt			0 kVA				0.00%				0 kV/
CAT         TYPE         LOAD DESCRIPTION         WIRE SIZE         CONDUIT         POLES         TRIP AMPS         A         B         C         TRIP AMPS           1         E         EXISTING LIGHTING         -         1         20A         1         1         20A         1         1         20A           3         E         EXISTING LIGHTING         -         1         20A         1         1         1         20A           5         E         EXISTING LIGHTING         -         1         20A         1         1         1         20A           9         E         EXISTING LIGHTING         -         1         20A         1         1         1         20A           11         E         EXISTING LIGHTING         -         1         20A         1         1         1         20A           15         E         EXITING RECEPTACLES         -         1         20A         1         1         20A           16         E         EXITING RECEPTACLES         -         1         20A         1         1         20A           17         E         EXITING RECEPTACLES         -         1         20A			PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	"US: NNS: 200 NLTS: 120 ASE: 3 RES: 4 BID ONL"	) A MLO )/208 Wye <b>Y. ALL LO/</b>	ADS ARE I	PAN M BASED ON	IEL RATIN ICB RATIN FED FRO I AS BUILT	G: 200 A G: M: E6 F DRAWIN	GS AND F	IELD VERI	FICATIO
CHT       TYPE       LOAD DESCRIPTION       WIRE SIZE       CONDUIT       POLES       AMPS			PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	TUS: AINS: 200 PLTS: 120 ASE: 3 RES: 4 BID ONL	) A MLO )/208 Wye <b>Y. ALL LO/</b>	ADS ARE I	PAN M BASED ON	IEL RATIN CB RATIN FED FRO I AS BUILT	G: 200 A G: M: E6 r drawin	gs and F	IELD VERI	FICATIO
1       E       EXISTING LIGHTING       -       1       20 A       1       1       1       20 A       20 A       1       1       1       20 A       20 A       1       1       1       20 A       20 A       1       1       1       20 A       20 A       1       1       1       20 A       1       1       20 A       1       1       20 A		LOAD	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL	) A MLO )/208 Wye Y. ALL LO/	ADS ARE I	PAN M BASED ON	IEL RATIN CB RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B	GS AND F	IELD VERI	FICATIO
3       E       Existing Lighting        1       20 A       1       1       0       20 A         7       E       Existing Lighting        1       20 A       1       1       1       1       20 A         9       E       Existing Lighting        11       20 A       1       1       1       1       10       20 A         9       E       Existing Lighting        11       20 A       1       1       1       10       20 A         13       E       Existing Lighting        11       20 A       1       1       1       10       20 A         15       E       Existing Receptacles        11       20 A       1       1       1       20 A         16       E       Existing Receptacles        11       20 A       1       1       1       20 A         17       E       Existing Receptacles        11       20 A       1       1       1       20 A         18       E       Existing With        1       20 A       1       1       1       20 A         29	скт	LOAD TYPE	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: NNS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONLY	) A MLO )/208 Wye Y. ALL LO/ TRIP AMPS	ADS ARE I	PAN M BASED ON	IEL RATIN ICB RATIN FED FRO	G: 200 A G: M: E6 F DRAWIN B	GS AND F	IELD VERI	FICATIO
3       E       Existing Cloring Cloring        1       20 A       1       1       1       20 A       1       1       1       1       20 A       1       1       1       1       1       20 A       1       1       1       1       20 A       1       1       20 A       1       1       1       20 A       1       1       1       1       20 A       20 A       1	<u>скт</u>	LOAD TYPE E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 OLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1	) A MLO )/208 Wye Y. ALL LO/ TRIP AMPS 20 A	ADS ARE I	PAN M BASED ON A	IEL RATIN ICB RATIN FED FRO	G: 200 A G: M: E6 F DRAWIN B	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A
7       E       LAIS ING LIGHTING        1       20 /       1       1       1       1       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /       20 /	CKT 1 3	LOAD TYPE E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 OLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1	) A MLO )/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A	ADS ARE I	PAN M BASED ON A	IEL RATIN CB RATIN FED FRO NAS BUILT	G: 200 A G: M: E6 F DRAWIN B	GS AND F		FICATION TRIP AMPS 20 A 20 A 20 A
9       E       EXISTING LIGHTING        1       20.4       1       1       1       1       20.7         11       E       EXSTING LIGHTING        11       20.4       1       1       1       20.7         13       E       EXSTING LIGHTING        11       20.4       1       1       1       20.7         15       E       EXSTING LIGHTING        11       20.4       1       1       1       20.7         15       E       EXSTING LIGHTING        11       20.4       1       1       1       20.7         16       E       EXSTING LIGHTING        11       20.4       1       1       1       20.7         21       E       EXSTING RECEPTACLES        11       20.4       1       1       1       20.7         23       E       EXSTING RECEPTACLES        11       20.4       1       1       1       20.7         24       PANELE4        1       20.4       1       1       1       20.7       20.7       1       0.36       0.45       20.7       20.7       20.7	<b>CKT</b> 1 3 5	LOAD TYPE E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 OLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1	D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A	ADS ARE I	PAN M BASED ON A 1	IEL RATIN CB RATIN FED FRO NAS BUILT	G: 200 A G: M: E6 T DRAWIN B	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20 A 20 A
11       E       EXISTING LIGHTING        1       1       1       1       1       20         13       E       EXSITING RECEPTACLES        1       20A       1       1       1       1       20A         15       E       EXSITING RECEPTACLES        1       20A       1       1       1       1       1       1       20A         17       E       EXSITING RECEPTACLES        1       20A       1       1       1       1       1       20A         18       E       EXSITING LIGHTING        1       20A       1       1       1       1       20A         21       E       EXSITING RECEPTACLES        1       20A       1       1       1       1       20A         25       E       EXSITING RECEPTACLES        1       20A       1       1       1       20A         26       E       EXSITING RECEPTACLES        1       20A       1       1       1       20A         27       E       E       EXSITING RECEPTACLES        1       20A       1       1 <td< td=""><td><b>CKT</b> 1 3 5 7</td><td>LOAD TYPE E E E E E</td><td>PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING</td><td>EL TO REMAIN UN</td><td>STAT M/ VC PH WI IDER BASE</td><td>US: AINS: 200 ASE: 3 RES: 4 BID ONL POLES 1 1 1</td><td>) A MLO )/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A</td><td>ADS ARE I</td><td>PAN M BASED ON A 1 1</td><td>IEL RATIN CB RATIN FED FRO</td><td>G: 200 A G: M: E6 T DRAWIN B</td><td>GS AND F</td><td>IELD VERI</td><td>FICATION TRIP AMPS 20 A 20 A 20 A 20 A</td></td<>	<b>CKT</b> 1 3 5 7	LOAD TYPE E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 ASE: 3 RES: 4 BID ONL POLES 1 1 1	) A MLO )/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A	ADS ARE I	PAN M BASED ON A 1 1	IEL RATIN CB RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20 A 20 A 20 A
13       E       Lessifing RecePt AcLes        1       20 A       1       1        20 A       1       1        20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       1       20 A       1       1       20 A       1       1       1       20 A       20 A       1       1       20 A       20 A	<b>CKT</b> 1 3 5 7 9	LOAD TYPE E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1	) A MLO )/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A	ADS ARE 1	PAN M BASED ON A 1	IEL RATIN CB RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B 1	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20 A 20 A 20 A
15       E       DESITING RECEPTACLES        1       1       20 A       1       1       1       20 A       0       1       1       1       20 A       20 A       1       1       1       20 A       20 A       1       1       1       20 A       1 <th< td=""><td>CKT 1 3 5 7 9 11</td><td>LOAD TYPE E E E E E E E E E E E</td><td>PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING</td><td>EL TO REMAIN UN</td><td>STAT M/ VC PH WI IDER BASE</td><td>US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1</td><td>D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A</td><td>ADS ARE I</td><td>PAN M BASED ON A 1</td><td>IEL RATIN FED FRO</td><td>G: 200 A G: M: E6 <b>T DRAWIN</b> B 1 1</td><td>GS AND F</td><td>IELD VERI</td><td>FICATION TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A</td></th<>	CKT 1 3 5 7 9 11	LOAD TYPE E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1	D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A	ADS ARE I	PAN M BASED ON A 1	IEL RATIN FED FRO	G: 200 A G: M: E6 <b>T DRAWIN</b> B 1 1	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A
17       E       EXISTING LIGHTING        1       20 A        1       20 A       1       1       1       20 A         19       E       EXISTING LIGHTING        1       20 A       1       1       0       20 A         21       E       EXISTING RECEPTACLES        1       20 A       1       1       1       20 A         23       E       EXISTING RECEPTACLES        1       20 A       1       1       1       20 A         27       E       EXISTING RECEPTACLES        1       20 A       1       1       1       20 A         29       E       PANEL E4        2       100 A       1       1       1       20 A         33       E       EXISTING W/H        1       20 A       1       1       1       20 A         35       E       EXISTING W/H        1       20 A       0.9       1       1       0.36       20 A         37       R       NEW EWC/GFI       2#12 & 1#12G       3/4"       1       20 A       0.9       1       0.36       0.45       20 A	<b>CKT</b> 1 3 5 7 9 11 13	LOAD TYPE E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING	EL TO REMAIN UN WIRE SIZE        	STAT M/ VC PH WI IDER BASE	US: NNS: 200 PLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1	D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A	ADS ARE   	PAN M BASED ON A 1 1 1	IEL RATIN ICB RATIN FED FRO	G: 200 A G: M: E6 <b>T DRAWIN</b> B	GS AND F	IELD VERI	FICATION FICATION AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A
19       E       EXSTING LIGHTING        1       20 A       1       1        20 A         21       E       EXSTING RECEPTACLES        1       20 A       1       1       0       20 A       20 A         23       E       EXSTING RECEPTACLES        1       20 A       1       1       1       20 A       20 A         25       E       EXSTING RECEPTACLES        1       20 A       1       1       1       1       20 A       20 A         27       E       EXSTING RECEPTACLES        1       20 A       1       1       1       1       20 A         29       E       PANELE4        1       20 A       1       1       1       1       20 A         33       E       EXISTING WH        1       20 A       0       1       1       0.6       20 A         33       E       EXISTING WH        1       20 A       0.9       1       1       0.8       20 A         37       R       NEW EWC/GFI       2#12 & 1#12G       3/4"       1       20 A       0.9       1	<b>CKT</b> 1 3 5 7 9 111 13 15	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN WIRE SIZE          	STAT M/ VC PH WI IDER BASE	US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1	<ul> <li>A MLO</li> <li>)/208 Wye</li> <li>Y. ALL LO/</li> <li>TRIP AMPS</li> <li>20 A</li> </ul>	ADS ARE 1	PAN M BASED ON A 1 1 1	IEL RATIN ICB RATIN FED FRO NAS BUILT	G: 200 A G: M: E6 <b>F DRAWIN</b> B 1 1 1	GS AND F	IELD VERI	FICATION FICATION TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A
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23         E         EXSITING RECEPTACLES         -         1         20 A         1         1         20 A         1         1         20 A           25         E         EXSITING RECEPTACLES         -         1         20 A         1         1         0         20 A         20 A           27         E         EXSITING RECEPTACLES         -         1         20 A         1         1         1         20 A         20 A <t< td=""><td><b>CKT</b> 1 3 5 7 9 11 13 15 17 17 9</td><td>LOAD TYPE E E E E E E E E E E E E E E E E E E</td><td>PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES EXISTING LIGHTING</td><td>EL TO REMAIN UN</td><td>STAT M/ VC PH WI IDER BASE</td><td>US: AINS: 200 OLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A</td><td>ADS ARE 1</td><td>PAN M BASED ON A 1 1 1 1 1</td><td>IEL RATIN CB RATIN FED FRO NAS BUILT</td><td>G: 200 A G: M: E6 T DRAWIN B 1 1 1</td><td>GS AND F</td><td>IELD VERI</td><td>FICATION TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A</td></t<>	<b>CKT</b> 1 3 5 7 9 11 13 15 17 17 9	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES EXISTING LIGHTING	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 OLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1	IEL RATIN CB RATIN FED FRO NAS BUILT	G: 200 A G: M: E6 T DRAWIN B 1 1 1	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A
Lo         LO         LOURD RECEPTACLES         -         1         Z0 A         1         1         1         20         20           27         E         EXSITING RECEPTACLES         -         1         20 A         1         1         1         20 A         20 A           31         C         PANEL E4         -         2         100 A         10         1         20 A         20 A           33         E         EXISTING W/H         -         1         20 A         10         1         10         1         20 A           35         E         EXISTING W/H         -         1         20 A         0         1         1         0.36         20 A           37         R         NEW EWC/GFI         2#12 & 1#12G         3/4"         1         20 A         0.9         1         0         20 A         20 A           41         R         NEW EWC/GFI         2#12 & 1#12G         3/4"         1         20 A         0.9         0.18         20 A         20 A           41         R         NEW RESTROOM RECEPTACLES         2#12 & 1#12G         3/4"         1         20 A         21.90 kVA         21.90 kVA         21.17 kVA <td><b>CKT</b> 1 3 5 7 9 11 13 15 17 19 21</td> <td>LOAD TYPE E E E E E E E E E E E E E E E E E E</td> <td>PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXISTING RECEPTACLES</td> <td>EL TO REMAIN UN</td> <td>STAT M/ VC PH WI IDER BASE</td> <td>US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A</td> <td>ADS ARE  </td> <td>PAN M BASED ON A 1 1 1 1</td> <td>IEL RATIN FED FRO</td> <td>G: 200 A G: M: E6 T DRAWIN B 1 1 1 1</td> <td>GS AND F</td> <td>IELD VERI</td> <td>FICATION TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A</td>	<b>CKT</b> 1 3 5 7 9 11 13 15 17 19 21	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXISTING RECEPTACLES	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	ADS ARE	PAN M BASED ON A 1 1 1 1	IEL RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A
zr         c         EXPRING RECEPTACLES         -         1         Z0 A         1         1         1         1         1         1         1         1         20 A         1         1         1         1         1         20 A         1         1         1         1         20 A         1         1         1         20 A         1         1         1         20 A         20 A         1         1         0         1         20 A         20 A           31         E         EXISTING W/H          1         20 A         0         1         1         0         20 A         20 A           35         E         EXISTING W/H          1         20 A         0         1         1         0.36         20 A           37         R         NEW EWC/GFI         2#12 & 1#12G         3/4"         1         20 A         0.9         1.1         0.36         0.45         20 A           41         R         NEW RESTROOM RECEPTACLES         2#12 & 1#12G         3/4"         1         20 A         0.9         0.18         0.36         0.45         20 A           41         R         NEW RESTROOM RECEPTACLES	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXISTING RECEPTACLES	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 PLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	ADS ARE	PAN M BASED ON A 1 1 1 1 1	IEL RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1	GS AND F	IELD VERI	FICATION FICATION 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A
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x.         10         0         x.         20/2           33         E         EXISTING W/H          1         20 A         1         1         20 A         20 A           35         E         EXISTING W/H          1         20 A         -         1         1         0.36         20 A           37         R         NEW EWC/GFI         2#12 & 1#12G         3/4"         1         20 A         0.9         1         -         20 A           31         R         NEW EWC/GFI         2#12 & 1#12G         3/4"         1         20 A         0.9         1.8         20 A           41         R         NEW RESTROOM RECEPTACLES         2#12 & 1#12G         3/4"         1         20 A         -         0.9         0.18         20 A           TOTAL LOAD:         21.90 kVA         13.08 kVA         21.17 kVA	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 20	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES EXSITING RECEPTACLES EXSITING RECEPTACLES EXSITING RECEPTACLES EXSITING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN WIRE SIZE 		US: AINS: 200 PLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	D A MLO )/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1 1	IEL RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A
30         E         EXISTING W/H          1         20 A         1         1         1         1         20 A         20 A           35         E         EXISTING W/H          1         20 A         0.9         1         0.0         1         0.36         20 A           37         R         NEW EWC/GFI         2#12 & 1#12G         3/4"         1         20 A         0.9         1         0.0         0.9         0.18         20 A         20 A           39         R         NEW EWC/GFI         2#12 & 1#12G         3/4"         1         20 A         0.9         0.18         20 A         20 A           41         R         NEW RESTROOM RECEPTACLES         2#12 & 1#12G         3/4"         1         20 A         0.9         0.18         21.07         20 A           TOTAL LOAD:         21.90 kVA         13.08 kVA         21.17 kVA           Execution in the properiod of the properiod	CKT 1 3 5 7 9 11 13 15 17 17 19 21 23 25 27 29 24	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN WIRE SIZE UIRE SIZE UIRE SIZE UIRE SIZE UIRE UIRE UIRE UIRE UIRE UIRE UIRE UIR	STAT M/ VC PH WI IDER BASE	US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1 1	IEL RATIN FED FRO NAS BUILT	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A
SO         E         EADSTRING W/FT         -         1         20 A         C         1         0.36         20 /           37         R         NEW EWC/GFI         2#12 & 1#12G         3/4"         1         20 A         0.9         1         -         20 /         20 /           39         R         NEW EWC/GFI         2#12 & 1#12G         3/4"         1         20 A         0.9         0.18         -         20 /         20 /           41         R         NEW RESTROOM RECEPTACLES         2#12 & 1#12G         3/4"         1         20 A         0.9         0.18         -         20 /         20 /           TOTAL LOAD:         21.90 kVA         13.08 kVA         21.17 kVA         20 /           BREAKER TYPES:         LO - INDICATES "LOCK-ON" GFCI - INDICATES GROUND FAULT DEVICE         ST - INDICATES SHUNT TRIP DEVICE         GFPE - INDICATES GROUND FAULT FOR EQUIPMENT           Load Classification         Connected Load (VA)         Demand Factor         Estimated           Receptacle         4 kVA         100.00%         0 kV         0 kVA         0.00%         0 kV           Uighting         0 kVA         0 kVA         0.00%         0 kV         0.00%         0 kV	<b>CKT</b> 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1 1 1 1 0	IEL RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20
or         ix         new eworder         2412 & 1#120         3/4         1         20 A         0.9         1         ix         20 A         20 A         39         1         ix         ix<         ix         ix </td <td>CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 25</td> <td>LOAD TYPE E E E E E E E E E E E E E E E E E E</td> <td>PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES</td> <td>EL TO REMAIN UN WIRE SIZE </td> <td>STAT M/ VC PH WI IDER BASE</td> <td>US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A</td> <td>ADS ARE  </td> <td>PAN M BASED ON A 1 1 1 1 1 1 1 1 0 0</td> <td>IEL RATIN FED FRO</td> <td>G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1</td> <td>GS AND F</td> <td>IELD VERI</td> <td>FICATION TRIP AMPS 20 A 20 A 20</td>	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 25	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN WIRE SIZE 	STAT M/ VC PH WI IDER BASE	US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	ADS ARE	PAN M BASED ON A 1 1 1 1 1 1 1 1 0 0	IEL RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20
33         R         NEW REVORT         2#12 & 1#125         3/4         1         20 A         0.33         0.16         220 A         20 A         20 A         0.16         20 A         0.36         0.45         20 A         20 A         0.16         0.36         0.45         20 A         20 A         21.07 KVA         20 KVA         20 KVA         20 KVA </td <td>CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 27</td> <td>LOAD TYPE E E E E E E E E E E E E E E E E E E</td> <td>PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES</td> <td>EL TO REMAIN UN</td> <td></td> <td>US: AINS: 200 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A</td> <td>ADS ARE  </td> <td>PAN M BASED ON A 1 1 1 1 1 1 1 0</td> <td>IEL RATIN FED FRO</td> <td>G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1</td> <td>GS AND F</td> <td>IELD VERI</td> <td>FICATIO FICATIO 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A</td>	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 27	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN		US: AINS: 200 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	ADS ARE	PAN M BASED ON A 1 1 1 1 1 1 1 0	IEL RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1	GS AND F	IELD VERI	FICATIO FICATIO 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A
41       R       NEW RESTROOM RECEPTACLES       2#12 & 1#123       3/4       1       20 A       0.36       0.45       20 A         TOTAL LOAD:       21.90 kVA       13.08 kVA       21.17 kVA         BREAKER TYPES:       LO - INDICATES "LOCK-ON"       ST - INDICATES SHUNT TRIP DEVICE         GFCI - INDICATES GROUND FAULT DEVICE         GFCI - INDICATES GROUND FAULT DEVICE         Connected Load (VA)       Demand Factor       Estimated         Receptacle       4 kVA       100.00%       4 kV         Motor       0 kVA       0.00%       0 kV       0 kVA         Lighting       0 kVA       0.00%       0 kV       0 kVA       0.00%       0 kV         Equipment       0 kVA       0.00%       0 kV       0.00%       0 kV       0 kVA       0.00%       0 kV	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 PLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	D A MLO D/208 Wye Y. ALL LO/ TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEL RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1 1	GS AND F	IELD VERI	FICATION FICATION TRIP AMPS 20 A 20 A
BREAKER TYPES:       LO - INDICATES "LOCK-ON"       ST - INDICATES SHUNT TRIP DEVICE         GFCI - INDICATES GROUND FAULT DEVICE       GFPE - INDICATES GROUND FAULT FOR EQUIPMENT         Load Classification       Connected Load (VA)       Demand Factor       Estimated         Motor       0 kVA       0.00%       0 kVA         HVAC       0 kVA       0.00%       0 kVA         Lighting       0 kVA       0.00%       0 kVA         Equipment       0 kVA       0.00%       0 kVA         Kitchen Equipment       0 kVA       0.00%       0 kVA	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 9 41	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE LOAD DESCRIPTION EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 PLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	A MLO         0/208 Wye         Y. ALL LO/         TRIP         AMPS         20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEL RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20 A
BREAKER TYPES:       LO - INDICATES "LOCK-ON"       ST - INDICATES SHUNT TRIP DEVICE         GFCI - INDICATES GROUND FAULT DEVICE       GFPE - INDICATES GROUND FAULT FOR EQUIPMENT         Load Classification       Connected Load (VA)       Demand Factor       Estimated         Receptacle       4 kVA       100.00%       4 kV         Motor       0 kVA       0.00%       0 kV         Lighting       0 kVA       0.00%       0 kV         Equipment       0 kVA       0.00%       0 kV         Kitchen Equipment       0 kVA       0.00%       0 kV	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN WIRE SIZE	STAT M/ VC PH WI IDER BASE	US: AINS: 200 PLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	A MLO         )/208 Wye         Y. ALL LO/         TRIP         AMPS         20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEL RATIN FED FRO NAS BUILT	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0.18	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A
Load ClassificationConnected Load (VA)Demand FactorEstimatedReceptacle4 kVA100.00%4 k'Motor0 kVA0.00%0 k'HVAC0 kVA0.00%0 k'Lighting0 kVA0.00%0 k'Equipment0 kVA0.00%0 k'Kitchen Equipment0 kVA0.00%0 k'	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 25 37 39 41	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	A MLO         )/208 Wye         Y. ALL LO/         TRIP         AMPS         20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEL RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GS AND F	IELD VERI	FICATIO TRIP AMPS 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A
Receptacle         4 kVA         100.00%         4 k           Motor         0 kVA         0.00%         0 k'           HVAC         0 kVA         0.00%         0 k'           Lighting         0 kVA         0.00%         0 k'           Equipment         0 kVA         0.00%         0 k'           Kitchen Equipment         0 kVA         0.00%         0 k'	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 31 33 35 37 39 41	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD:       E3         LOCATION:       CORRIDOR         MOUNTING:       Recessed         ENCL NEMA:       Type 1         MIN AIC:       22,000         NOTES:       EXISTING PANE         LOAD DESCRIPTION       EXISTING PANE         EXISTING LIGHTING       EXISTING LIGHTING         EXISTING RECEPTACLES       EXISTING RECEPTACLES         EXISTING RECEPTA	EL TO REMAIN UN WIRE SIZE	STAT M/ VC PH WI IDER BASE	US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A MLO         0/208 Wye         Y. ALL LO/         TRIP         AMPS         20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEL RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GS AND F	IELD VERI	FICATIO FICATIO TRIP AMPS 20 A 20 A
Motor         0 kVA         0.00%         0 k           HVAC         0 kVA         0.00%         0 k'           Lighting         0 kVA         0.00%         0 k'           Equipment         0 kVA         0.00%         0 k'           Kitchen Equipment         0 kVA         0.00%         0 k'	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A MLO         )/208 Wye         Y. ALL LO/         TRIP         AMPS         20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEL RATIN FED FRO AS BUILT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GS AND F	IELD VERI	FICATION TRIP AMPS 20 A 20
HVAC         0 kVA         0.00%         0 k           Lighting         0 kVA         0.00%         0 k'           Equipment         0 kVA         0.00%         0 k'           Kitchen Equipment         0 kVA         0.00%         0 k'	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 Coad ( Recept	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 DLTS: 120 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A MLO         )/208 Wye         Y. ALL LO/         TRIP         AMPS         20 A	ADS ARE	PAN M BASED ON A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEL RATIN FED FRO	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GS AND F	IELD VERI	FICATIO FICATIO TRIP AMPS 20 A 20 A
Lighting         0 kVA         0.00%         0 k           Equipment         0 kVA         0.00%         0 k'           Kitchen Equipment         0 kVA         0.00%         0 k'	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 Caceper Motor	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	A MLO         0/208 Wye         Y. ALL LO/         TRIP         AMPS         20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEL RATIN CB RATIN FED FRO A AS BUILT 1 1 1 1 1 1 1 1 1 1 1 1 1	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GS AND F	IELD VERI	FICATIO FICATIO FICATIO TRIP AMPS 20 A 20
Equipment         0 kVA         0.00%         0 k           Kitchen Equipment         0 kVA         0.00%         0 k	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 Coad G Receptor Motor	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: AINS: 200 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	A MLO         0/208 Wye         Y. ALL LO/         TRIP         AMPS         20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEL RATIN FED FRO A AS BUILT A S BUILT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GS AND F	IELD VERI	FICATIO FICATIO TRIP AMPS 20 A 20 A
Numeric         U KVA         U.00%         0 k	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 Cadd C Receptioned C Rece	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: ANS: 200 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	A MLO         )/208 Wye         Y. ALL LO/         TRIP         AMPS         20 A	ADS ARE	PAN M BASED ON A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEL RATIN FED FRO A AS BUIL ¹ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GS AND F	IELD VERI	FICATIO FICATIO TRIP AMPS 20 A 20 A
	CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 Coad C Recept Motor HVAC Loghtin Equipin	LOAD TYPE E E E E E E E E E E E E E E E E E E	PANELBOARD: E3 LOCATION: CORRIDOR MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: EXISTING PANE EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING LIGHTING EXISTING RECEPTACLES EXSITING RECEPTACLES	EL TO REMAIN UN	STAT M/ VC PH WI IDER BASE	US: ANS: 200 ASE: 3 RES: 4 BID ONL POLES 1 1 1 1 1 1 1 1 1 1 1 1 1	A MLO         )/208 Wye         Y. ALL LO/         TRIP         AMPS         20 A	ADS ARE 1	PAN M BASED ON A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IEL RATIN FED FRO A AS BUIL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	G: 200 A G: M: E6 T DRAWIN B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GS AND F	IELD VERI	FICATIO TRIP AMPS 20 A 20

- CLOSELY WITH UTILITY COMPANY PRIOR TO COMMENCING WORK.
- NEW WORK SHOWN IN BOLD LINEWEIGHT, EXISTING SHOWN IN HALFTONE/LIGHT LINEWEIGHT. В.

KEYNOTES:

- 1. EXISTING ELECTRICAL SERVICE TO REMAIN UNDER BASE BID PACKAGE
- 2. THIS RISER IS DEMOLISHED UNDER ALTERNATE BIDS 2-1 - 2-3.

	<u>LEGEND</u>
	EXISTING TO RE
	NEW
M.C.B.	MAIN CIRCUIT B
M.L.O.	MAIN LUGS ONL
GEC	GROUNDING EL
$\Theta$	RECONNECTION



## NEL NOTES: PROVIDE DOOR WITH LOCK AND HINGED TRIM PROVIDE COPPER GROUND AND NEUTRAL BUS PROVIDE FULL SIZE NEUTRAL BUS, U.O.N.

					_
POLES	CONDUIT	WIRE SIZE	LOAD DESCRIPTION	LOAD TYPE	скт
1	3/4"	2#12 & 1#12G	RECEPTACLES CLASSROOM 107	R	2
1	3/4"	2#12 & 1#12G	RECEPTACLES 107, 108X	R	4
1	3/4"	2#12 & 1#12G	RECEPTACLES CLASSROOM 100	R	6
1	3/4"	2#12 & 1#12G	RECEPTACLES CLASSROOM 100	R	8
					10
3	1.25"	4#6 & 1#10G	VPHP-3	HVAC	12
					14
1			SPARE		16
1		-	SPARE		18
1			SPARE		20
1			SPARE		22
1			SPARE		24
1			SPARE		26
1			SPACE		28
1			SPACE		30

AFCI - INDICATES ARC FAULT PROTECTED DEVICE

emand	Panel Totals	
۱.		
۱.	Total Connected Load:	44.31 kVA
۱.	Total Connected Amps:	122.99 A
<b>\</b>	Total Estimated Demand:	44.31 kVA
<b>\</b>	Total Estimated Demand Amps:	122.99 A
۱.		

NEL NOTES: PROVIDE DOOR WITH LOCK AND HINGED TRIM PROVIDE COPPER GROUND AND NEUTRAL BUS PROVIDE FULL SIZE NEUTRAL BUS, U.O.N.

POLES	CONDUIT	WIRE SIZE	LOAD DESCRIPTION	LOAD TYPE	скт
1			EXISTING LIGHTING	E	2
1			EXISTING LIGHTING	E	4
1			EXISTING LIGHTING	E	6
1			EXISTING LIGHTING	E	8
1			EXISTING LIGHTING	E	10
1			EXISTING LIGHTING	E	12
1			EXISTING LIGHTING	E	14
1			EXISTING LIGHTING	E	16
1			EXISTING LIGHTING	E	18
1			EXISTING RECEPTACLES	E	20
1			EXISTING RECEPTACLES	E	22
1			EXISTING RECEPTACLES	E	24
1			EXISTING RECEPTACLES	E	26
1			EXISTING LIGHTING	E	28
1			EXISTING RECEPTACLES	E	30
1			EXISTING RECEPTACLES	E	32
1			EXISTING RECEPTACLES	E	34
1	3/4"	2#12 & 1#12G	NEW RECEPTACLE BREAK ROOM	R	36
1	3/4"	2#12 & 1#12G	NEW REFRIGERATOR BREAK ROOM	R	38
1	3/4"	2#12 & 1#12G	NEW RECEPTACLE BREAK ROOM	R	40
1	3/4"	2#12 & 1#12G	NEW EF-1, RESTROOM 101E		42

## AFCI - INDICATES ARC FAULT PROTECTED DEVICE

emand	Panel Totals	
<u> </u>		
<b>N</b>	Total Connected Load:	56.15 kVA
L	Total Connected Amps:	155.86 A
	Total Estimated Demand:	56.15 kVA
	Total Estimated Demand Amps:	155.86 A

LOCATION: BREAK ROOM 101A MOUNTING: Recessed ENCL NEMA: Type 1 MIN AIC: 22,000 NOTES: NEW PANEL UNDER ALTERNATE BID 2					AINS: 200 DLTS: 120 IASE: 3 IRES: 4	0 A 0/208 Wye		MCB RATING: 200 A MCB RATING: 200 A MLO FED FROM: MDPN						PANEL NOTES: PROVIDE DOOR WITH LOCK AND HINGED TRIM PROVIDE COPPER GROUND AND NEUTRAL BUS PROVIDE FULL SIZE NEUTRAL BUS, U.O.N.							
скт	LOAD TYPE	LOAD DESCRIPTION	WIRE SIZE	CONDUIT	POLES	TRIP AMPS		Α		В		с	TRIP AMPS	POLES	CONDUIT	WIRE SIZE	LOAD DESCRIPTION	LOAD TYPE	ск		
1	R	RECEPTACLE BREAK ROOM 105D	2#12 & 1#12G	3/4"	1	20 A	0.18	1.18					20 A	1	3/4"	2#12 & 1#12G	REFRIGERATOR BREAK ROOM 105D	R	2		
3	R	MICROWAVE BREAK ROOM 105D	2#12 & 1#12G	3/4"	1	20 A			1	0.18			20 A	1	3/4"	2#12 & 1#12G	RECEPTACLES BREAK ROOM 105D	R	4		
5	L	CANOPY LIGHTING (VIA PC/LC)	2#12 & 1#12G	3/4"	1	20 A					0.2	0.36	20 A	1	3/4"	2#12 & 1#12G	RECEPTACLE JANITOR 105C	R	6		
7								0.72					20 A	1	3/4"	2#12 & 1#12G	RECEPTACLES RESTROOM 105B	R	8		
9	R	EWC\GFI (CORRIDOR)	2#12 & 1#12G	3/4"	1	20 A			0.18	0.9			20 A	1	3/4"	2#12 & 1#12G	RECEPTACLES 101A, 103	R	10		
11	R	EWC/GFI (CORRIDOR)	2#12 & 1#12G	3/4"	1	20 A					0.18	0.9	20 A	1	3/4"	2#12 & 1#12G	RECEPTACLES CLASSROOM 103	R	12		
13							6.36	6.36											14		
15	HVAC	VPHP-2	4#6 & 1#10G	1.25"	3	60 A			6.36	6.36			60 A	3	1.25"	4#6 & 1#10G	VPHP-1	HVAC	16		
17											6.36	6.36							18		
19		SPARE			1	20 A	0	0					20 A	1			SPARE		20		
21		SPARE			1	20 A			0	0			20 A	1			SPARE		22		
23		SPACE			1							0		1			SPARE		24		
25		SPACE			1			0					20 A	1			SPARE		26		
27		SPACE			1					0			20 A	1			SPARE		28		
29		SPACE			1							0	20 A	1			SPARE		30		
					тот	'AL LOAD:	14.8	0 kVA	14.9	8 kVA	14.3	6 kVA									
		BREAKER TYPES:	LO - INDICATES	LOCK-ON	I"			ST - INDI	CATES SH	IUNT TRIP	DEVICE			AFCI - II	NDICATES A	RC FAULT PROTECT	ED DEVICE				
GFCI - INDICATES GROUND FAULT DEVICE GFPE - INDICATES GROUND FAULT FOR EQUIPM									IENT												
Load (	Classifica	tion		Conne	ected Loa	id (VA)		D	Demand Factor Estimated Demand Panel Totals						Panel Totals						
Recept	acle				6 kVA				100.00%			6 kVA									

		PANELBOARD: E6		STAT	US:															
		LOCATION: STORAGE 110		MA	AINS: 400	A		PA	NEL RATIN	<b>IG:</b> 400 A		PANEL NOTES: PROVIDE DOOR WITH LOCK AND HINGED TRIM								
		MOUNTING: Surface		VO	LTS: 120	0/208 Wye		MCB RATING:					PROVIDE COPPER GROUND AND NEUTRAL BUS							
		ENCL NEMA: Type 1		PH	<b>ASE:</b> 3	-			FED FRO	<b>M:</b> E1					PROVIDE FULL SIZE NEUTRAL BUS, U.O.N.					
		MIN AIC:		W	<b>RES</b> : 4															
		NOTES: EXISTING PAN	IEL TO REMAIN UN	NDER BASE	BID ONL	Y. ALL LOA	ADS ARE	BASED O	N AS BUIL	T DRAWIN	GS AND FI	IELD VERI	FICATION							
	LOAD					TRIP		A		в		с	TRIP					LOAD	)	
СКТ	TYPE	LOAD DESCRIPTION	WIRE SIZE	CONDUIT	POLES	AMPS		0					AMPS	POLES	CONDUIT	WIRE SIZE	LOAD DESCRIPTION	TYPE		
1					2	200 4	21.9	0	12.00	0			60 A	2			PANEL E5		2	
3		EXISTING PANEL E3			3	200 A			13.08	0	01.17	0	<u> </u>						4	
5 7							0	0			21.17	0	20 A	2			EXISITNG A/C UNIT		0	
9		PANEL E7			2	40 A	0	0	0	0.36			20 A	1	3/4"	2#12 \$ 1#12G	NEW RECEPTACLE - DATA RACK - 110	R	10	
11		SPARE			1				Ŭ	0.00		0.36	20 A	1	3/4"	2#12 \$ 1#12G	NEW RECEPTACLE - DATA RACK - 110	R	12	
				1	тот	AL LOAD:	21.9	0 kVA	13.4	4 kVA	21.5	3 kVA				• -				
													_							
		BREAKER TYPES:	LO - INDICATES	S "LOCK-ON	"			ST - IND	ICATES SH	IUNT TRIP	DEVICE			AFCI - II	NDICATES A	RC FAULT PROTEC	TED DEVICE	_		
			GFCI - INDICAT	ES GROUNE	FAULT	DEVICE		GFPE - I	NDICATES	GROUND	FAULT FO	R EQUIPN	MENT							
Load	Classifica	lion		Conne	ected Loa	d (VA)			Demand Fa	ctor		Es	timated D	emand			Panel Totals			
Recep	tacle		51						100.00%	, 0			5 kVA							
Motor					0 kVA				0.00%				0 kVA Total Connected Load:			Total Connected Load: 56.87 kVA				
HVAC					0 kVA				0.00%			0 kVA Total Connected Amps: 1			Total Connected Amps: 157.86 A					
Lightir	g				0 kVA		0.00%		0.00% 0 kVA Total Estimated Den		0 kVA Total Estimated Dema			0 kVA Total Estimated Demand: 56.87 kVA						
Equipr	nent				0 kVA				0.00%				0 kVA			Т	Total Estimated Demand Amps:157.86 A			
	tchen Equipment				0 k / A				0.00%				$0 k V \Delta$							

## EMAIN

BREAKER

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- LECTRODE CONDUCTOR
- N OF EXISTING

			LIGHTIN		RE SCHEDULE			
SYMBOL	MOUNTING	VOLT	MANUFACTURER AND MODEL NO.	EQUALS	DESCRIPTION	LAMP	WATTS	SYMBOL
A1	RECESSED	MVOLT	LITHONIA EPANL-2X2-2000LMHE-80CRI-40K-MIN10-ZT-MVOLT	SIGNIFY WILLIAMS HUBBELL	2'X2' LED FLAT PANEL FIXTURE WITH DIMING DOWN TO 10%	LED 4000K 2000 LUMENS	20	A1
A2	RECESSED	MVOLT	LITHONIA EPANL-2X4-4000LMHE-80CRI-40K-MIN10-ZT-MVOLT	SIGNIFY WILLIAMS HUBBELL	2'X4' LED FLAT PANEL FIXTURE WITH DIMING DOWN TO 10%	LED 4000K 4000 LUMENS	31	A2
В	SURFACE/ PENDANT	MVOLT	LITHONIA ZL1D-L48-5000LM-FST-MVOLT-40K-80CRI-WH-ZACHV M100	SIGNIFY WILLIAMS HUBBELL	4' LED STRIP LIGHT WITH FROSTED LENS AND ADJUSTABLE AIR CRAFT CABLE HANGERS	LED 4000K 5500 LUMENS	41	В
D	RECESSED	MVOLT	PRESCOLITE LTR-6RD-H-SL10L-DM01-EM/LTR-6RD-T-SL-40K-8-MD-SS-WT-EM	SIGNIFY WILLIAMS HUBBELL	6" LED DOWNLIGHT WITH EMERGENCY BATTERY, FINAL FINISH AND TRIM OPTIONS TO BE SELECTED BY ARCHITECT	LED 4000K 1100 LUMENS	12	D
G	SURFACE	MVOLT	LITHONIA ARC2 LED P3 40K MVOLT PE DDBXD	SIGNIFY WILLIAMS HUBBELL	LED EXTERIOR WALL PACK, ARCHITECT TO SELECT COLOR	LED 4000K 3000 LUMENS	24	G
к	SURFACE	MVOLT	LITHONIA CNY LED P1 40K MVOLT	SIGNIFY WILLIAMS HUBBELL	LED EXTERIOR CANOPY FIXTURE , ARCHITECT TO SELECT COLOR	LED 4000K 4500 LUMENS	12	к
S	RECESSED	MVOLT	PRESCOLITE LTR-6RD-H-SL10L-DM01/LTR-6RD-T-SL-40K-8-XW-SS-WT	SIGNIFY WILLIAMS HUBBELL	6" LED DOWNLIGHT, FINAL FINISH AND TRIM OPTIONS TO BE SELECTED BY ARCHITECT	LED 4000K 1100 LUMENS	12	S
X1	SURFACE	MVOLT	LITHONIA EDG-W-1-RW-EL	SIGNIFY WILLIAMS HUBBELL	LED EDGE LIT SINGLE FACE EXIT SIGN WITH BATTERY BACK OF 90 MINUTES	LED	3.1	X1
z	SURFACE	MVOLT	LITHONIA ELM2L	SIGNIFY WILLIAMS HUBBELL	LED EM WALL MOUNT FIXTURE WITH BATTERY BACK OF 90 MINUTES	LED	3.1	z
* ALL INDOO		S ARE TO	BE RATED FOR 2.5KA SURGE PROTECTION MINIMUM.		·			

ALL EXTERIOR LIGHT FIXTURES ARE TO BE RATED FOR 10KA SURGE PROTECTION MINIMUM

PANELBOARD: C

Motor HVAC

Lighting Equipment Kitchen Equipment

STATUS:

0 kVA

0 kVA

0 kVA

0 kVA

0 kVA

*THIS FIXTURE SCHEDULE IDENTIFIES A FIXTURE THAT MEETS THE SPECIFIED PERFORMANCE REQUIREMENTS AND A LEVEL OF QUALITY REQUIRED FOR THE PROJECT. MANUFACTURER'S NAMES AND FIXTURE MODEL NUMBERS IN THE SCHEDULE ARE NOT A NAME BRAND SPECIFICATION. EQUIVALENT FIXTURES BY MANUFACTURERS OTHER THAN THOSE LISTED MAY BE SUBMITTED FOR THIS PROJECT.

DICATES GROUND I AU			
emand Factor	Estimated Demand	Panel Totals	
100.00%	6 kVA		
0.00%	0 kVA	Total Connected Load:	44.14 kVA
0.00%	0 kVA	Total Connected Amps:	122.52 A
125.00%	0 kVA	Total Estimated Demand:	44.19 kVA
0.00%	0 kVA	Total Estimated Demand Amps:	122.66 A
0.00%	0 kVA		



RAWN BY:	GS
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PANEL SCHED	JLES

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# NFPA 72 AND ADA DEVICE **INSTALLATION REQUIREMENTS**







- A. SEE PLANS FOR LOCATIONS AND QUANTITIES OF ALL DEVICES.
- B. ALL WIRING SHALL BE IN MINIMUM 3/4" CONDUIT.
- C. BATTERY CALCULATIONS ARE REQUIRED WITH ALL SUBMITTALS.
- D. TEST RESULTS ARE REQUIRED FOR ALL DEVICES.
- E. PROVIDE SHUT-DOWN DEVICES FOR NEW AIR HANDLERS, FAN COIL UNITS AND SUPPLY FANS OF ALL MECHANICAL EQUIPMENT.
- F. VERIFY ROOM NUMBERS WITH ARCHITECT PRIOR TO PROGRAMMING SYSTEM.
- G. ALL NAC PANELS AND AMPLIFIER PANELS SHALL HAVE A SMOKE DETECTOR MOUNTED WITHIN 15'-0" OF PANEL.
- H. A SMOKE DETECTOR SHALL BE MOUNTED WITHIN 15'-0" OF FACP AND NAC PANELS.
- I. IF ANY ARCHITECTURAL CHANGES ARE MADE THAT SHALL AFFECT ANY DEVICE PLACEMENT, THIS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO 7. INSTALLATION.
- THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE SHALL BE NICET LEVEL 3 CERTIFIED AND HAVE AT LEAST 2 YEARS OF EXPERIENCE INSTALLING FIRE ALARM SYSTEMS.
- K. THE PROJECT MANAGER SHALL BE NICET LEVEL 4 CERTIFIED AND HAVE AT LEAST 5 YEARS OF EXPERIENCE INSTALLING FIRE ALARM SYSTEMS.
- THE SHOP DRAWINGS SUBMITTALS FOR DEVICE LOCATIONS SHALL BE SUBMITTED TO ENGINEER AND LOCAL (AHJ) FIRE MARSHALL PRIOR TO ANY INSTALLATION/ROUGH-IN FOR FIRE ALARM DEVICES.

FIRE ALARM NETWORK RISER Copy 1 NOT TO SCALE

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# **GENERAL NOTES:**

- 1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
- 2. ULTRASONIC CEILING MOUNTED SENSORS SHALL NOT BE LOCATED WITHIN 6'-0" OF SUPPLY/RETURN GRILLES.
- 3. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS, VERIFICATION OF MANUFACTURER'S RECOMMENDED PLACEMENT AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
- 4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS.
- 5. ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT THAT IS TO BE CONTROLLED.
- 6. MAXIMUM NUMBER OF SENSORS THAT CAN BE WIRED IN PARALLEL TO A SINGLE POWER PACK IS DEPENDENT ON SENSOR MODEL. (SEE INDIVIDUAL DATA SHEETS FOR mA CONSUMPTION.)
- 7. SENSOR LAYOUT DRAWINGS AND PRODUCT DATA SHEETS ARE REQUIRED AS PART OF SHOP DRAWING SUBMITTALS.
- 8. ALL OCCUPANCY SENSOR WIRING SHALL BE WIRED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
- ALL CLASSROOM OCCUPANCY SENSORS SHALL BE PROVIDED WITH ISOLATION RELAY, THE ISOLATION RELAY SHALL BE CONNECTED TO THE VAV CONTROLLER FOR THAT CLASSROOM, COORDINATE CLOSELY WITH MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE WIRING BETWEEN THE SENSOR AND THE VAV CONTROLLER, TERMINATING IN THE SENSOR. THE MECHANICAL CONTRACTOR SHALL MAKE FINAL TERMINATIONS AT THE VAV CONTROLLER.
   REFER TO SPECIFICATION 260923.
- 11. ALL EXPPOSED WIRING SHALL BE PLENUM RATED.

# PW-100 ( Sos ) PASSIVE INFRARED WALL SWITCH SENSOR 35' x 30' MAJOR COVERAGE 20' x 15' MINOR MOTION

Ν

Hot

N

Hot

White

Black







OCCUPANCY SENSORS WITHOUT ISOLATED RELAY WIRING DIAGRAM (EQUALS: HUBBELL, SENSOR SWITCH)











**TELECOMMUNICATIONS RISER** 

[/] NOT TO SCALE





# S 39"-08'W 1004 +----+ ELSSS POOM e LIS MATE SCIENCE Enstist V 22.0 - (* STRIR: 8" T.C. DRAIN 13.5 ACRES ELEV. 19.0/0 2 STORY CLASS ROOM LUNCH BOOM ADDITION STOR. ₽ ₽ ₽ 473 N 37° - 50' E - 16° - 45'E 16% 5 IRON STAKE SCALE : 1"= 50'-0"

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The states	SKYLIGHTS,	<u>163 - 163 - </u>		- 4
			BRICK	
				- <u>+</u>
				STEEL STAIR
HEATING LINE BOX: SEE ON SHEET 1 OF GEORGET	WCOLOUVERED PANEL BETWEEN GOLS TO PREVENT RAINING ON STORE			
TO ALL DETAILS OF CONCOURSE S DETAILS ON SHEET I - GEORGETOWN -	SAILAR TO HEIGHTS DIFFER			

LASS SKYLIGHTS	<u> </u>	<b>.</b>
	-WHERE SHOWN THUS - 3"XI" ORRUGATED COPPER DOWNSPOUTS	

/FIN. CLASS ROOM CEILING PFIN. CLASS ROOM FLOOR -----





# BUILT · Roop 4P BOTTOM CHORD OF TRUSS Ð 0 (E) S.B.R.IZK 51665/ CONC. CANOPY - Iled PIPE RAIL DOWN SPOUT / FIN. MULTIPURPOSE ROOM FL. Ť APPROX. FIN. GRADE

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				VENTS AS			

-34" SUEATHING - DUILT UP ROOF Bettom of Steru / A BRICK METAL PLASHING CONCRETE CANOPY DOWN SPOR FIN MULTIPURPOSE FL.

FRONT ENTRANCE DETAILS SIMILAR. TO DETAILS 46447 SHEET 7-3

150UTH - EAST ELEVATION













VALLS	CORNICE	GILING	REMARKS	
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2"X 6" CEILING JOISTS	
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JOISTS FOR CVERHANG	
MN. LAP - 12"	

ACOUSTICAL TILE - CONTINUOUS SCREENED VENT - 3 - 3"x 3" x 4" STEEL /

1'X4' WOOD TRIM AT JAMES



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CONCOURSE CONNECTING MULTIPURPOSE ROOM & OLD CLASS RM, BLOG.

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# NOTES: (AS INDICATED ON THIS PLAIL BY A NUMBER IN A ())

- THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL A DUCTILE IRON PIPE SLEEVE (IN THE EXISTING COLD WATER LINE WHERE IT PASSES BELOW THE BUILDING FOUNDATION.
- 3 PROVIDE AND INSTALL A NEW CLEANOUT (CO-3) ON THE
- THE PLUMBING CONTRACTOR SHALL CONNECT TO THE EXISTING WASTE LINE AS SHOWN.
- 5 THE PLUMBING CONTRACTOR SHALL CONNECT TO THE EXISTING COLD WATER LINE AS SHOWN
- 6 THE PLUMBING CONTRACTOR SHALL REROUTE THE EXISTING COLD WATER LINE IF REQUIRED TO MISS FOOTING.





expressed consent of Robert N. Shuller, AIA or Robert W. Ferris, AlA ADA AND LEGAL DISCLAIMER: This document is intended to comply with the requirements of the Americans with Disabilities Act (ADA). However, Architects and Engineers are not licensed to interpret laws or give advice.

concerning laws. The Owner should have this document reviewed by his attorney to determine if it complies with ADA and other laws,

95039

Drawn By: TMB Checked By: SDS Issue Date: 16 NOV 1995 Revisions:

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TELEPHONE 919-790-9989