UNIVENT REPLACEMENT AT FARLEY ELEMENTARY SCHOOL

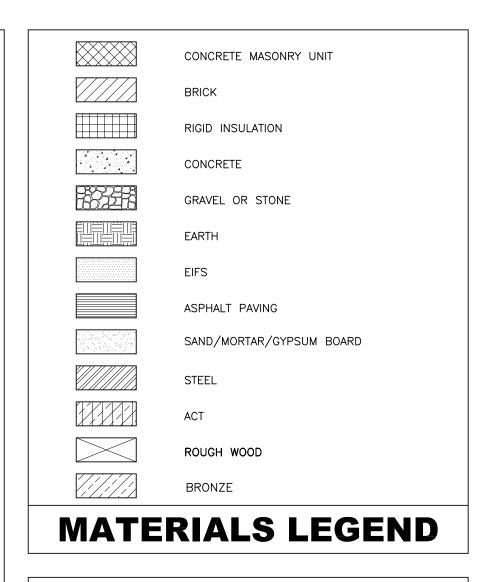
FARLEY ELEMENTARY SCHOOL **140 ROUTE 210** STONY POINT, NY 10980 SED# 50-02-01-06-0-003-011

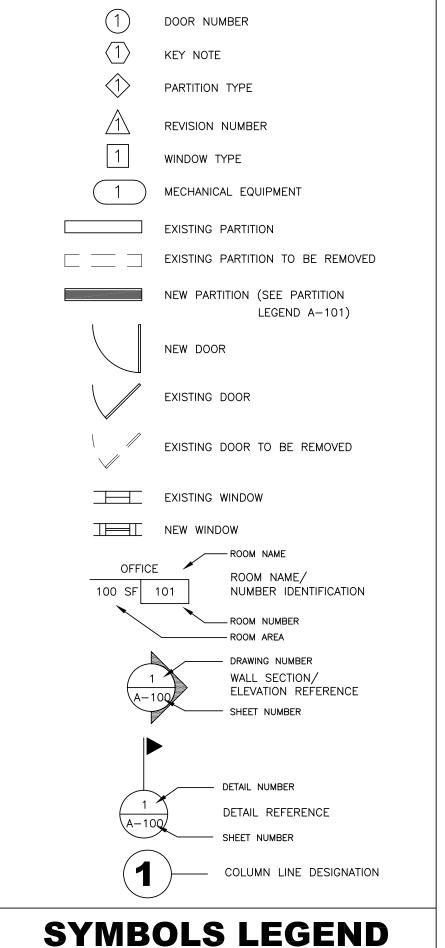
OWNER:

NORTH ROCKLAND CENTRAL SCHOOL DISTRICT 65 Chapel Street Garnerville, NY 10923

ARCHITECT: MICHAEL SHILALE ARCHITECTS, LLP 140 Park Avenue New City, NY 10956

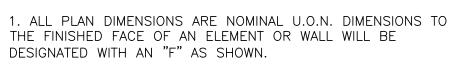
> PME ENGINEER: GREENMAN-PEDERSON, INC. 400 Rella Boulevard, Suite 207 Montabello, NY 10901





		DATE
FES-A-000	COVER SHEET	09-14-23
FES-B-100	CODE ANALYSIS	09-14-23
FES-AA-000	ABATEMENT NOTES	01-18-23
	FIRST FLOOR ABATEMENT PLAN	
FES-AA-100		01-18-23
FES-AA-200	SECOND FLOOR ABATEMENT PLAN	01-18-23
ES-S-001	STRUCTURAL NOTES AND LEGEND ABBREVATIONS	09-14-23
FES-S-101	GYM ROOF FRAMING PLAN AND DETAILS	09-14-23
FES-S-102	ROOF PART PLANS UNDER HP UNITS	09-14-23
FES-D-101	FIRST FLOOR DEMO PLAN	09-14-23
FES-D-102	SECOND FLOOR DEMO PLAN	09-14-23
FES-D-103	ROOF DEMO PLAN	09-14-23
FES-A-101	PROPOSED FIRST FLOOR PLAN	09-14-23
ES-A-102	PROPOSED SECOND FLOOR PLAN	09-14-23
FES-A-103	PROPOSED ROOF PLAN	09-14-23
FES-A-104	PROPOSED ELECTRICAL ROOM PLAN	09-14-23
	FIRST FLOOR REFLECTED CEILING PLAN	
FES-A-401		09-14-23
FES-A-402	SECOND FLOOR REFLECTED CEILING PLAN	09-14-23
FES-A-403	REFLECTED CEILING PLAN	09-14-23
FES-A-404	REFLECTED CEILING PLAN DETAILS	09-14-23
FES-A-500	ROOF DETAILS	09-14-23
ES-A-600	UV ELEVATIONS	09-14-23
FES-A-601	UV ELEVATIONS	09-14-23
ES-A-602	UV ELEVATIONS	09-14-23
FES-A-610	INTERIOR DETAILS	09-14-23
FES-M-001	MECHANICAL GENERAL NOTES, ABBREVIATIONS, & SYMBOL LIST	09-14-23
FES-M-002	MECHANICAL SCHEDULES -1	
		09-14-23
FES-M-003	MECHANICAL SCHEDULES -2	09-14-23
ES-M-061	HVAC DEMO FIRST FLOOR PLAN -1	09-14-23
FES-M-062	HVAC DEMO FIRST FLOOR PLAN -2	09-14-23
FES-M-063	HVAC DEMO SECOND FLOOR PLAN	09-14-23
FES-M-064	HVAC DEMO GYMNASIUM PLAN	09-14-23
FES-M-101	HVAC INSTALLATION FIRST FLOOR PLAN -1	09-14-23
FES-M-102	HVAC INSTALLATION FIRST FLOOR PLAN -2	09-14-23
FES-M-103	HVAC INSTALLATION SECOND FLOOR PLAN	09-14-23
FES-M-104	HVAC INSTALLATION GYMNASIUM PLAN	09-14-23
FES-M-105	MECHANICAL ROOF PLAN	09-14-23
FES-M-501	MECHANICAL DETAILS -1	09-14-23
FES-M-502	MECHANICAL DETAILS -2	09-14-23
FES-M-503	MECHANICAL DETAILS -3	09-14-23
	ELECTRICAL NOTES & SCHEDULES	09-14-23
FES-E-002	ELECTRICAL SITE PLAN	09-14-23
FES-E-061	ELECTRICAL FIRST FLOOR DEMO PLAN SHEET 1	09-14-23
FES-E-062	ELECTRICAL FIRST FLOOR DEMO PLAN SHEET 2	09-14-23
	ELECTRICAL SECOND FLOOR DEMO PLAN	09-14-23
	ELECTRICAL FIRST FLOOR PLAN -1	09-14-23
FES-E-102	ELECTRICAL FIRST FLOOR PLAN -2	09-14-23
	ELECTRICAL SECOND FLOOR PLAN	
		09-14-23
	ELECTRICAL ROOF PLAN -1	09-14-23
	ELECTRICAL ROOF PLAN -2	09-14-23
FES-E-106	ELECTRICAL PART PLAN	09-14-23
FES-E-201	ELECTRICAL FIRST FLOOR PART PLAN -1	09-14-23
FES-E-202	ELECTRICAL FIRST FLOOR PLAN -2	09-14-23
FES-E-400	ELECTRICAL ONE LINE DIAGRAM, DISTRIBUTION BOARD SCHEDULE	
FES-E-401	ELECTRICAL PANEL SCHEDULES #1	09-14-23
FES-E-402	ELECTRICAL PANEL SCHEDULES #2	09-14-23
	ELECTRICAL PANEL SCHEDULES #3	09-14-23
FES-E-404	"	09-14-23
	"	
FES-E-405	ELECTRICAL PANEL SCHEDULES #5	09-14-23
FES-E-406	ELECTRICAL PANEL SCHEDULES #6	09-14-23
FES-E-407	ELECTRICAL PANEL SCHEDULES #7	09-14-23
FES-E-408	ELECTRICAL PANEL SCHEDULES #8	09-14-23
FES-E-409	ELECTRICAL PANEL SCHEDULES #9	09-14-23
FES-E-500	ELECTRICAL DETAILS -1	09-14-23
	ELECTRICAL DETAILS -2	09-14-23
FES-E-502		09-14-23
FES-FA-001	FIRE ALARM GENERAL NOTES, SYMBOL LIST, PART PLAN, &	09-14-23
LO 17 001	RISER DIAGRAM	09-14-23

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minality a rand minal		GREENMAN	Drawn by MAL		
ENI KEFLACEMENI AT	Mechanical & Electrical Engineer:	PEDERSEN, INC 400 RELIA BOULEVARD MONTEBELLO, NY 10901	Checked by MS/JC		· ·
RLEY ELEMENTARY			Project No.		•
CCHOOL			42052		•
SCHOOL		1	Scale		
50 - 02 - 01 - 06 - 0 - 003 - 011	Structural	ı	AS NOTED		
		1 1	Date		
210, IT, NY 10980 COUNTY OF ROCKLAND			11-30-22	REG. EXP DATE: 06-30-24	
					1



2. G.C. TO VERIFY ALL DIMENSIONS IN THE FIELD AND IS TO NOTIFY ARCHITECT IF THERE ARE ANY DISCREPANCIES.

GENERAL NOTES

PROVIDE A UNIT PRICE TO REPLACE ADDITIONAL EXISTING SUPPLY AND RETURN PIPING AND INSULATION. PRICE IS PER 10 LINEAR FEET. (THIS AMOUNT WILL ADD OR REDUCE ALLOWANCE NO. 100).

UNIT PRICE NO. 101: PROVIDE A UNIT PRICE FOR THE INSTALLATION OF 10 LF OF LINE SET ENCLOSURE. (THIS AMOUNT WILL ADD OR REDUCE ALLOWANCE NO.

UNIT PRICE NO. 102:

ELECTRICAL CONTRACTOR TO PROVIDE A UNIT PRICE TO RELOCATE AN EXISTING ELECTRICAL DEVICE THAT IS REQUIRED TO BE RELOCATED. PRICE PER 1 DEVICE. (THIS AMOUNT WILL ADD OR REDUCE ALLOWANCE NO. 102).

UNIT PRICE NO. 103:

ELECTRICAL CONTRACTOR TO PROVIDE NEW POWER CONNECTION TO EXISTING UV LOCATION WHERE EXISTING FEEDER CANNOT BE REUSED. PRICE PER 1 FEED. (THIS AMOUNT WILL ADD OR REDUCE ALLOWANCE NO. 103).

UNIT PRICES

ALLOWANCE NO. 100: REPLACE EXISTING SUPPLY AND RETURN PIPING AND INSULATION FOR 30 LINEAR FEET PER EACH UNIT VENTILATOR.

ALLOWANCE NO. 101: CONTRACTOR TO INCLUDE AN ALLOWANCE FOR THE LF OF LINE SET ENCLOSURE NOTED ON THE DRAWINGS.

ALLOWANCE NO. 102: PROVIDE ALLOWANCE FOR THE RELOCATION OF 40 ELECTRICAL DEVICES THAT REQUIRE RELOCATION DUE TO NEW UV SIZE.

ALLOWANCE NO. 103: ELECTRICAL CONTRACTOR TO PROVIDE NEW POWER CONNECTIONS TO 10 EXISTING UV LOCATIONS WHERE EXISTING CANNOT BE

ALLOWANCE NO. 104: HAZARDOUS MATERIALS ALLOWANCE.

ALLOWANCES

ALT.	NO.	100:	REMOVE EXISTING UNUSED FAN GEAR AND DUCTWORK IN FAN ROOM 201. FILL AND CLOSE EXISTING 2 HR BLOCK WALL WITH NEW BLOCK AT OLD DUCT LOCATIONS.
ALT.	NO.	101:	INCLUDE CEILING AND LIGHTING

REPLACEMENT IN CORRIDORS. SEE FES-D-101, FES-D-102, FES-D-105, FES-A-401, FES-A-402, FES-A-403

ALT. NO. 102: REMOVE EXISTING 12"X12" CONCEALED

REINSTALL LIGHTING.

ALT. NO. 104: CONTRACTOR TO INSTALL ONE SWING SET WITH LOCATION TO BE DETERMINED IN THE FIELD BY OWNER. SWING SET TO BE GAMETIME ADA POWERSCAPE 10847. SWING SET WILL BE PROVIDED TO THE CONTRACTOR BY THE OWNER.

SPLINE CEILING. PROVIDE NEW ACT AND

ALT. NO. 105: PROVIDE 1/4" THICK SOLID SURFACE MATERIAL AT ALL UVS'S BUILT INTO CASE WORK.

ALTERNATES

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	AOT	ACCUICTION OF UNIO THE	ITR	INDIVIDUAL TREATMENT ROOM	
	ACT	ACOUSTICAL CEILING TILE	JT	JOINT	
	A.F.F.	ABOVE FINISH FLOOR	LAM	LAMINATE	
	ASPH	ASPHALT	LAV	LAVATORY	
	BLK,	BLOCK	LAV LF	LINEAR FEET	
	BLK'G	BLOCKING	Lr LP	LOW POINT	
	BUR	BUILT UP ROOFING	MAX	MAXIMUM	
	CLG	CEILING	MFR	MANUFACTURER	
	CONC	CONCRETE	MTL	METAL	
	CONT	CONTINUOUS	MIN	MINIMUM	
	C.J.	CONTROL JOINT	MO	MASONRY OPENING	
	DN	DOWN	N.I.C.	NOT IN CONTRACT	
	DIA	DIAMETER	N.I.C. NO.	NUMBER	
	DWG	DRAWING	NO. OC	ON CENTER	
	E.F. EIFS	EACH FACE	OPN'G	OPENING	
	EIL2	EXTERIOR INSULATION AND FINISH SYSTEM	PBC	PLUMBING CONTRACTOR	
	E.W.	EACH WAY	PLAS.LAM.	PLASTIC LAMINATE	
	E.W.C.	ELECTRICAL WATER COOLER	PLAS.LAM. PL	PLATE	
	E.W.C.	ELECTRICAL WATER COOLER ELEVATION	PLY'D	PLYWOOD	
	ELC	ELECTRICAL CONTRACTOR	RAD	RADIUS	
	EXIST	EXISTING	REF.CLG.	REFLECTED CEILING	
	EXP	EXPANSION	REF.CLG. REQ'D	REQUIRED CEILING	
	EXT'G	EXISTING	RO RO	ROUGH OPENING	
	EXTR	EXTERIOR	SIM	SIMILAR	
	FP	FIREPROOF	STL	STEEL	
	FIN.	FINISH(ED)	SUSP.CLG.	SUSPENDED CEILING	
	GA	GAUGE	T.O.M.	TOP OF MASONRY	
	GC	GENERAL CONTRACTOR	T.O.M. T.O.S.	TOP OF MASONKT	
	GALV	GALVANIZED	T.U.S. TYP	TYPICAL	
	GALV	GLASS	U.O.N.	UNLESS OTHERWISE NOTED	
	GWB	GYPSUM WALL BOARD	V.I.F.	VERIFY IN FIELD	
	HM	HOLLOW METAL	V.I.F. VCT	VERIFI IN FIELD VINYL COMPOSITE TILE	
	H.P.	HIGH POINT	W/	WITH	
	HAC	HEATING & A/C CONTRACTOR	w/ WD	WOOD	
	ПАС	HEATING & A/C CONTRACTOR	٧٧U	WOOD	

ABBREVIATIONS

LIST OF DRAWINGS

TOP OF STEEL	╽╣		Щ
TYPICAL	록	١	
UNLESS OTHERWISE NOTED	שׁבוּ	1	
VERIFY IN FIELD	Σ	ω (
VINYL COMPOSITE TILE	<u> </u>	lž ,	7
WITH	二二	≔	L
WOOD	RG	б	
	l ∑	I⊂	

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	Univent Replacement at		
roject Name: roject	Farley Elementary	Location Architect of	Rockland County
lumber:	42052	Record	MSA
roject Address	140 Route 210,		
roject Address:	Stony Point, NY 10980 APPLICABLE ORDINANCES	5, CODES & STANDARD	
	Existing Building Code of New Yor	k State	
	Building Code of New York State Energy Conservation Code of New	York State	
2020	Fire Code of New York State		
	Fuel Gas Code of New York State Mechanical Code of NY State		
	Plumbing Code of NY State		
_	NFPA 70	4 CCORE AND ADMINISTRA	TION
ECTION 101	XISTING BUILDING CODE: CHAPTER GENERAL	1 SCOPE AND ADMINISTRA	HON
	The provisions of this code shall a	nnly to the renair alteratio	n change of occupancy
l01.2 Scope	addition to and relocation of exist		
	This code shall apply to the repair.	. alteration, change of occur	pancy, addition and
	relocation of existing buildings, re		
.01.4 Applicability	Sections 101.4.1 and 101.4.2.		
	The legal occupancy of any buildir	ng existing on the date of ac	loption of this code
104 4 2 B 'l l'	shall be permitted to continue with	= :	
LO14.2 Buildings Previously	this code, the Fire Code of New Yo New York State, or as is deemed n		
Occupied	safety and welfare of the occupan	, ,	
ECTION 202	EXISTING BUILDING CODE: (GENERAL DEFINITIONS	CHAPTER 2 DEFINITIONS	
SECTION 202		ventilating airconditionic	g refrigerating and
	Any plumbing, heating, electrical, fire protection equipment, and ele	=	
	pressure vessels and other mecha	nical facilities or installatio	ns that are related to
EQUIPMENT OR	building services. Equipment or filor process equipment, but shall in		· .
IXTURE	process equipment.	icidae connections from ba	name service to
	BUILDING CODE: CHAPTER 3 PROV	ISIONS FOR ALL COMPLIAN	CE METHODS
SECTION 301 301.3.2 Work Area	ADMINISTRATION Alterations, additions and change	s of occupancy complying w	with the applicable
	_	gh 12 of this code shall be co	• •
Compliance	Toquiro monto or on aprono o umo a	=	
•	compliance with the provisions of	this code.	
•	compliance with the provisions of Except as otherwise required or p	this code. ermitted by this code, mate	•
Method 302.5 New and	compliance with the provisions of Except as otherwise required or papplicable code for new construct permitted for repairs and alteration	this code. ermitted by this code, mate ion shall be used. Like mate ons, provided that unsafe co	erials shall be onditions are not
Method 302.5 New and replacement	compliance with the provisions of Except as otherwise required or papplicable code for new construct permitted for repairs and alteratic created. Hazardous materials shal	this code. ermitted by this code, mate ion shall be used. Like mate ons, provided that unsafe co I not be used where the cod	erials shall be onditions are not de for new construction
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Method 302.5 New and replacement	compliance with the provisions of Except as otherwise required or papplicable code for new construct permitted for repairs and alteratic created. Hazardous materials shal would not permit their use in buil Alterations, repairs, additions and buildings and structures shall comadditions and changes of occupant	this code. ermitted by this code, materion shall be used. Like materions, provided that unsafe colors of similar occupancy, I changes of occupancy to, on ply with the provisions for cy or relocation, respective	erials shall be onditions are not de for new construction purpose and location. or relocations, repairs, ly, in this code and the
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Method 302.5 New and eplacement materials 302.2 Additional codes 302.5.1 New structural members and connections 32.2 Work Area 32.1 Scope 302.2 Application 32.2 Application 32.1 Scope 303.1 Scope	compliance with the provisions of Except as otherwise required or papplicable code for new construct permitted for repairs and alteratic created. Hazardous materials shal would not permit their use in buil Alterations, repairs, additions and buildings and structures shall comadditions and changes of occupantenergy Conservation Construction State, Fuel Gas Code of New York State, Residential Code of New York State Residential Code of New York State codes conflict with provisions of the Building Code of New York State Codes conflict with provisions of the Building Code of New York State Codes and location. EXISTING BUILDING CODE: CHAPTE GENERAL The work area, as defined in Chap documents. ALTERATION - LEVEL 1 Level 1 alterations include the rematerials, elements, equipment, or fixtures that serve Level 1 alterations include the reconfinity door or window, the reconfinity door or window and ditional equipments as well as the provision EXISTING BUILDING CODE: CHAPBUILDING ELEMENTS AND MATERIANEWIY installed interior wall and comply with stalled interior wall and comply with stalled interior trim material, shall comply with Section Newly installed interior trim material, shall comply with Section Newly installed interior trim material. FIRE PROTECTION Alterations shall be done in a man provided	ermitted by this code, materion shall be used. Like materions, provided that unsafe collings of similar occupancy, I changes of occupancy to, or ply with the provisions for coy or relocation, respective Code of New York State, Fi State, Mechanical Code, the provisions of the State for new buildings of Chapter State for new buildings of Chapter State for new for the same purpose. State for new buildings of Chapter State for new buildings of Chapter State for new for the same purpose. State for new buildings of Chapter State for new for the same purpose. State for new buildings of Chapter State for new for the same purpose. State for new buildings of Chapter State for new for the same purpose. State for new buildings of Chapter State for new for the same purpose. State for new buildings of Chapter State for new for the same purpose. State for new buildings of Chapter State for new for the same purpose. State for new for the same purpose for new for the same purpose. State for new for the same purpose for new for the same purpose. State for new for new for the same purpose for new for ne	erials shall be conditions are not de for new construction purpose and location. Or relocation of, existing alterations, repairs, ly, in this code and the re Code of New York State, de of New York State, visions of the other chis code shall take. The detailing provisions imilar structure, ORK The construction The covering of existing rials, elements, The covering rials rials, eleme

2020 EXISTING BUILDING CODE OF NEW YORK STATE

BUILDING CODE SUMMARY

SECTION 705	REROOFING
	Materials and methods of application used for recovering or replacing an existing roof covering shall comply with the requirements of Chapter 15 of the Building
705.1 General	of New York State. Flashings shall be reconstructed in accordance with approved manufacturer's
705 C Floobings	installation instructions. Metal flashing to which bituminous materials
705.6 Flashings	are to be adhered shall be primed prior to installation.
SECTION 706	STRUCTURAL
706.2 Addition or replacement of roofing or replacement of equipment	Any existing gravity load-carrying structural element for which an alteration cau an increase in design dead, live or snow load, including snow drift effects, of m than 5 percent shall be replaced or altered as needed to carry the gravity loads required by the Building Code of New York State for new structures.
	EXISTING BUILDING CODE: CHAPTER 8 ALTERATIONS LEVEL 2
SECTION 801	GENERAL CONTRACTOR CON
801.2 Alteration Level 1 Compliance	In addition to the requirements of this chapter, all work shall comply with the requirements of Chapter 7.
801.3 Compliance	New construction elements, components, systems, and spaces shall comply wit the requirements of the Building Code of New York State.
SECTION 802	BUILDING ELEMENTS AND MATERIALS
802.4 Interior	The interior finish of walls and ceilings in exits and corridors in any work area sh
Finish	comply with the requirements of the Building Code of New York State.
SECTION 803	FIRE PROTECTION
	In buildings with occupancies in Groups
803.2.2 Groups	A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 and S-2, work
A,B,E,F-1, M, R-1, R-	areas that have exits or corridors shared by more than one
2, R-4, S-1, & S-1	tenant or that have exits or corridors serving an occupant
	In buildings with occupancies in Groups A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 and work areas that have exits or corridors shared by more than one tenant or that hexits or corridors serving an occupant load greater than 30 shall be provided wit automatic sprinkler protection where BOTH of the following conditions occur: 1. The work area is required to be provided with automatic sprinkler protection accordance with the Building Code of New York State as applicable to new
803.4 Fire Alarm	construction.
and Detection	2. The work area exceeds 50 percent of the floor area.
SECTION 805	MEANS OF EGRESS
SECTION 806	STRUCTURAL
	Any existing gravity load-carrying structural element for which an alteration cau an increase in design dead, live or snow load, including snow drift effects, of m than 5 percent shall be replaced or altered as needed to carry the gravity loads required by the Building Code of New York State for new structures. Any existing
806.2 Existing	gravity load-carrying structural element whose gravity load-carrying capacity is
Structural	decreased as part of the alteration shall be shown to have the capacity to resist
Elements Carrying	applicable design dead, live and snow loads, including snow drift effects, requi
Gravity Loads	by the Building Code of New York State for new structures.
SECTION 807	ELECTRICAL
	Newly installed electrical equipment and wiring relating to work done in any w
807.1 New	area shall comply with all applicable requirements of NFPA 70 except as provide
Installations	for in Section 807.3.
SECTION 808	MECHANICAL
·	In mechanically ventilated spaces, existing mechanical ventilation systems that
	altered, reconfigured, or extended shall provide not less than 5 cubic feet per
	minute (cfm) (0.0024 m3/s) per person of outdoor air and not less than 15 cfm
807.1 Altered	(0.0071 m3/s) of ventilation air per person; or not less than the amount of
Existing Systems	ventilation air determined by the Indoor Air Quality Procedure of ASHRAE 62.1.

	BUILDING C	ODE SUMMARY			
Site	Farley Elementary School	Date:		7/15/	
	Univent Replacement at				
Project Name:	Farley Elementary	Location	i	Rockland Co	
Project	, ,	Architec	t of		
Number:	42052	Record			
	140 Route 210,				
Project Address:	Stony Point, NY 10980				
	APPLICABLE ORDINAN	ICES, CODES & STAN	DARD		
2020	Existing Building Code of New	York State			
2020	Building Code of New York Sta	te			
2020	Energy Conservation Code of N	lew York State			
ENERGY	CONSERVATION CODE: CHAP	PTER 4 COMMERCIA	AL ENERGY E	FFICIENCY	
SECTION C402	Building Envelope Requireme	ents			
Table C402.1.3	Building Envelope Requireme	ents - Opaque Asse	mblies		
	Climate Zone 5A	Walls	Ave	rage R-Value	
	Mass	Above Grade		R-11.4ci	
	Climate Zone 5A	Roofs	Ave	rage R-Value	
		Insul entirely		R-30ci	
	Wood Framed or Other	above roof deck			
SECTION C403	Building Mechanical Systems				
	Mechanical systems and equipment serving the building heating, cooling,				
C403.1 General	ventilating or refrigerating ne		1		
	Design loads associated with h			=	
C402 1 1	shall be determined in accorda	·	•	•	
C403.1.1 Calculation of	approved equivalent computation	•		•	
Heating and	specified in Chapter 3. Heating load reductions that are achieved.				
Cooling Loads	HVAC system in accordance wi	<u>. </u>			
(Mandatory)	Handbook by an approved equ				
	ENERGY CONSERVATION COD				
SECTION C503	ALTERATIONS	E. CHAI TER 3 EXIS	THIS BOILDII	10	
32011011 0303	Alterations to any building or s	tructure shall compl	v with the red	nuirements of th	
	code for new construction. Alte	•	-	•	
	structure is no less conforming				
	building or structure was prior	•		=	
	building system or portion the			_	
	those provisions relate to new		-		
	of the existing building or building			·	
	not create an unsafe or hazard	= :	-		
C503 1 General	THE CICAL ALL ALISATE OF HAZALA	oas condition of UVE	TIOGG CAISUITE	o variating system	
C503.1 General C503.4 Heating and	New heating, cooling and duct		rt of the alter	ation shall comp	

ENERGY CODE

BUILDING CO	DE SUMMARY	
Cabaal	D - 4 -	7/15/20
ementary School	Date:	7/15/20
Replacement at ementary	Location	Rockland Cou
ementary	Architect	
	Record	N
te 210,		
int, NY 10980		
APPLICABLE ORDINANO		ARD
Building Code of New Y		
Code of New York State onservation Code of Ne		
		ENERGY EFFICIENCY
Envelope Requiremen		
Envelope Requiremer		blies
Zone 5A	Walls	Average R-Value
	Above Grade	R-11.4ci
7000 FA	Doofs	Avonago D. Valera
Zone 5A	Roofs Insul entirely	Average R-Value
amed or Other	above roof deck	R-30ci
Mechanical Systems	22010 1001 GCR	
	oment serving the b	uilding heating, cooling,
ng or refrigerating nee		
		d air conditioning of the buildi
		AE/ACCA Standard 183 or by an g the design parameters
·	·	all be adjusted to account for
		overy systems are utilized in th
stem in accordance with	n the ASHRAE HVAC	Systems and Equipment
ok by an approved equiv		
CONSERVATION CODE	: CHAPTER 5 EXISTI	NG BUILDING
IONS	wysty was aball samanly	with the requirements of the
=		with the requirements of the that the existing building or
		his code than the existing
=	•	erations to an existing building
system or portion there	eof shall conform to	the provisions of this code as
		requiring the unaltered portion
		y with this code. Alterations sh
		oad existing building systems of the alteration shall comply
tions C403.	yatema mat are part	or the arteration shall comply

Drawing No. **FES-B-100**

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REPLACEMEN

INIVENT FARLEY 50 SED#



ATEMEN' NOTES $\mathbf{\omega}$

PRE-ABATEMENT WORK NOTES:

- THESE DRAWINGS HAVE BEEN PREPARED BY UTILIZING THE OWNERS ORIGINAL CONSTRUCTION DOCUMENTS IN ORDER TO ILLUSTRATE THE EXISTING CONDITIONS OF THE SITE AND STRUCTURES THEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL VERIFICATION OF ALL EXISTING CONDITIONS IN THE FIELD.
- 2. THE CONTRACTOR SHALL DETERMINE EXACT FINAL LOCATIONS OF PERSONNEL AND WASTE DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASBESTOS DEBRIS, THESE LOCATIONS SHALL BE REVIEWED AND PROPERLY APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF WORK. THIS CONTRACTOR SHALL ESTABLISH. LABEL AND MAINTAIN PROPER EXITS AND WAYS OF DEPARTURE WITHIN EACH WORK AREA FOR NORMAL AND EMERGENCY USE BY WORKERS DURING ALL ABATEMENT.
- 3. THE CONTRACTOR, PRIOR TO BIDDING, SHALL BE RESPONSIBLE TO BECOME COMPLETELY FAMILIAR WITH ALL ASPECTS OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO, ALL DEMOLITION AND CONSTRUCTION WORK AS SHOWN IN THE COMPLETE SET OF DRAWINGS AND IN THE PROJECT MANUAL/SPECIFICATIONS, IN ORDER THAT THE FULL SCOPE OF WORK WHICH MAY ENCOUNTER ASBESTOS CONTAINING MATERIALS IS UNDERSTOOD AND ACCOUNTED FOR BY THE CONTRACTOR IN THIS PROJECT WHETHER OR NOT SHOWN IN THESE DOCUMENTS.

ASBESTOS REMOVAL GENERAL NOTES:

- 1. ASBESTOS ABATEMENT INDICATED ON THIS DRAWING SHALL BE PERFORMED BY A NYS DEPARTMENT OF LABOR LICENSED ASBESTOS CONTRACTOR, THAT SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND QUANTITIES PRIOR TO BID.
- 2. THE CONTRACTOR SHALL PERFORM ALL CONTRACT WORK IN ACCORDANCE WITH CONTRACT SPECIFICATIONS, NEW YORK STATE DEPARTMENT OF LABOR (NYSDOL) INDUSTRIAL CODE RULE 56, OSHA, NESHAPS, AHEA, NYSDEC AND ALL OTHER APPLICABLE CODES.
- 3. THE CONTRACTOR SHALL MAINTAIN THE SITE AS NEAT AS POSSIBLE AND ORDERLY DURING THE WORK. ALL LOOSE DEBRIS WHICH MAY BLOW OFF THE SITE SHALL BE COLLECTED AND DISPOSED OF PROPERLY BY THE CONTRACTOR ON A DAILY BASIS AS PART OF THE PROJECT.
- 4. THE CONTRACTOR SHALL PROVIDE BARRIERS AROUND THE WORK AREAS IN ORDER TO ENSURE SAFE PASSAGE BY ANY PERSON. THESE BARRIERS SHALL ALSO SERVE TO KEEP ALL UNAUTHORIZED PERSONS OUT THE PROJECT AREA FOR THE DURATION OF THE WORK.
- 5. VARIANCES: CONTRACTOR SHALL PAY FOR AND OBTAIN ANY NECESSARY SITE SPECIFIC VARIANCES.
- 6. THE CONTRACTOR SHALL MAINTAIN SECURITY IN THE BUILDING AND THE WORK AREAS AT ALL TIMES.
- 7. PROJECT STAGING, STORAGE, SCHEDULING AND ACCESS SHALL BE COORDINATED WITH AND APPROVED BY THE ARCHITECT, CM AND OWNER PRIOR TO PROCEEDING WITH WORK.
- 8. SHOULD IT BE NECESSARY, CONTRACTOR SHALL COORDINATE SHUT DOWN AND LOCK OUT OF THE ELECTRICAL POWER WITH OWNER'S POWER WITH OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF WORK.
- 9. ALL TEMPORARY POWER TO THE WORK AREA SHALL BE BROUGHT IN FROM OUTSIDE THE WORK AREA THROUGH A GROUND-FAULT CIRCUIT INTERRUPTER AT THE SOURCE.
- 10.CONTRACTOR SHALL COORDINATE HOOKUP OF WATER SERVICE FOR DECONTAMINATION PURPOSED WITH OWNER'S REPRESENTATIVE. WATER FOR THE DECONTAMINATION UNITS IS AVAILABLE FROM THE OWNER
- 11. THE OWNER OR OWNER'S REPRESENTATIVE IS RESPONSIBLE TO CONTRACT FOR NYSDOL PROJECTS MONITORING/AIR SAMPLING TECHNICIAN SERVICES AS REQUIRED.
- BE USED DURING THE ASBESTOS ABATEMENT TO THE PROJECT MONITOR AND THE OWNER'S REPRESENTATIVE. ¹³.CONTRACTOR SHALL REQUEST AND RECEIVE PROJECT MONITOR AND OWNER'S

12.CONTRACTOR TO PROVIDE A COPY OF SDS'S FOR ANY CHEMICAL AGENTS TO

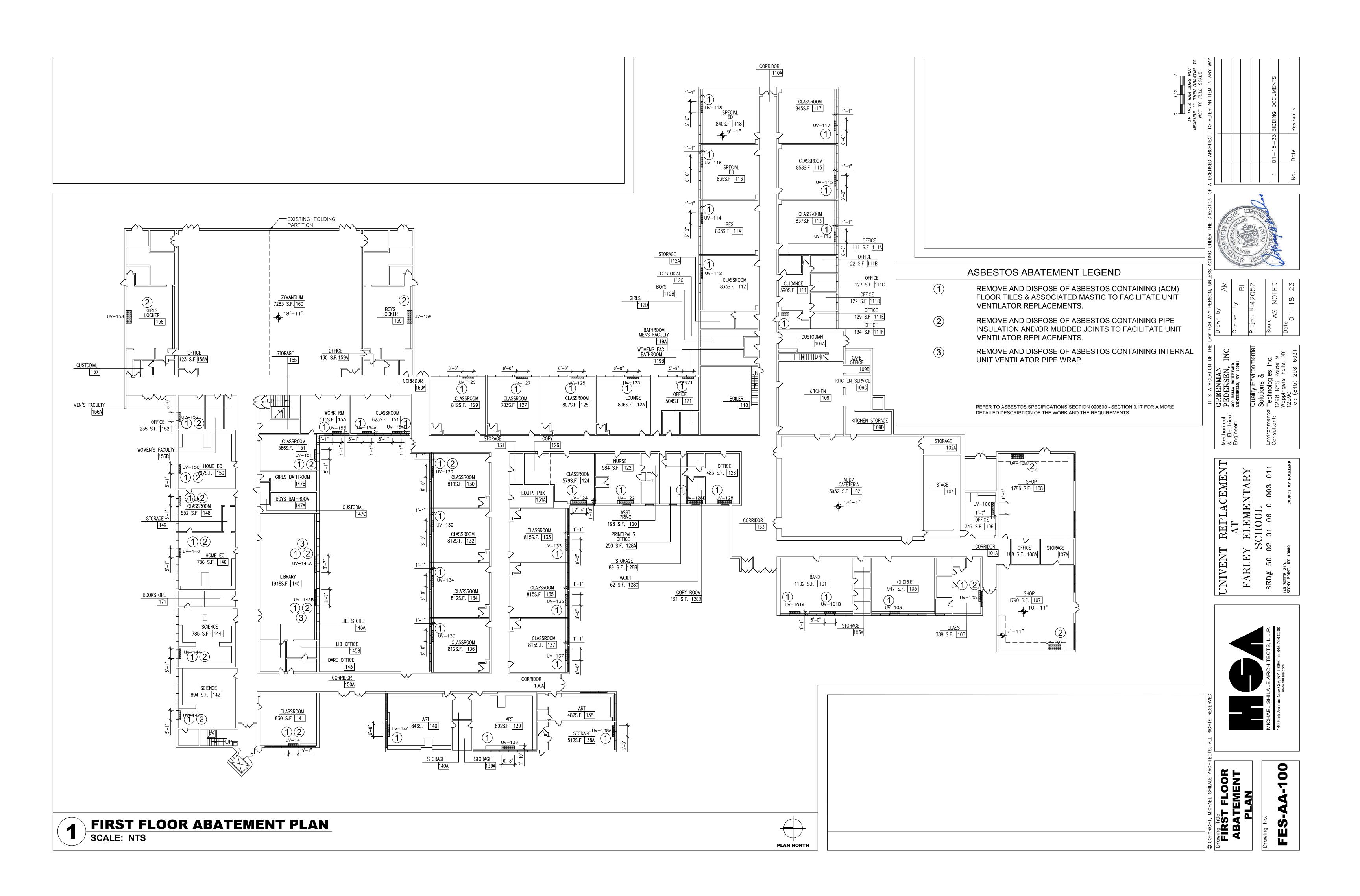
- REPRESENTATIVE APPROVAL OF ALL WORK BEFORE ANY ABATEMENT IS UNDERTAKEN.
- 14.UNDER NO CIRCUMSTANCES SHALL CONTAMINATED WASTE WATER BE FILTERED THOUGH A SYSTEM WITHOUT AT LEAST A 5.0 MICRON PARTICLE SIZE COLLECTION CAPABILITY.
- 15.DRAWINGS ATTEMPT TO INDICATE THE GENERAL SCOPE OF EXISTING CONDITIONS AND ITEMS EFFECTED BY THE ABATEMENT WORK. CONTRACTOR SHALL EXAMINE THE WORK AREA PRIOR TO BID AND SHALL INCLUDE FIELD VARIATIONS FROM THOSE SHOWN WITH IN THE GENERAL INTENT OF THE
- 16.THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ASBESTOS CONTAINING MATERIALS CONTAINED WITHIN THE PROJECT AND ASSOCIATED WITH ALL PROJECT WORK, IN COMPLIANCE WITH ALL APPLICABLE LAWS, RULES, REGULATIONS AND ALL REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
- 17. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ASBESTOS CONTAINING MATERIALS CONTAINED WITHIN THE PROJECT AND ASSOCIATED WITH ALL PROJECT WORK, IN THE MOST EFFICIENT AND COST EFFECTIVE METHOD POSSIBLE, WHICH ALSO COMPLIES WITH THE REQUIREMENTS LISTED ABOVE.

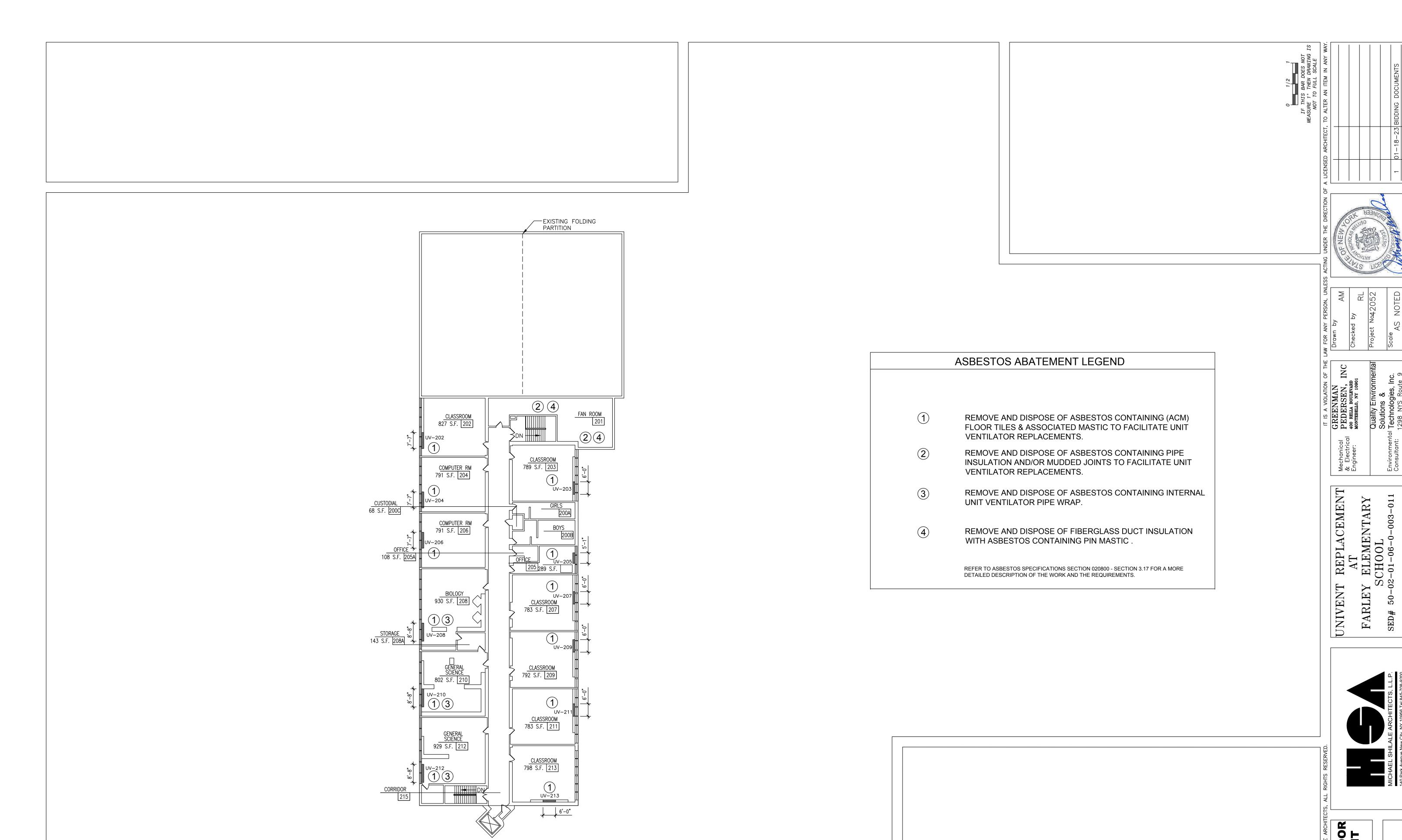
POST-ABATEMENT WORK NOTES:

- PROVIDE ALL APPLICABLE CODE RULE 56 PROCEDURES, CLEAN UP. AND ADDITIONAL TESTING AS REQUIRED.
- 2. PRIOR TO ABATEMENT, ALL CONTRACTORS WILL SURVEY EXISTING CONDITIONS IN THE ABATEMENT AND GENERAL WORK AREAS. ITEMS/MATERIALS/ETC. DAMAGED, OR NON-FUNCTIONAL SHALL BE LISTED, NOTED, PHOTOGRAPHED AND REVIEWED WITH THE PROJECT INSPECTOR. ALL OTHER ITEMS/MATERIALS SHALL BE REVIEWED WITH THE PROJECT INSPECTOR. ALL OTHER ITEMS/MATERIALS SHALL BE ASSUMED TO BE IN GOOD CONDITION AND GOOD WORKING ORDER. IT SHALL BE THE RESPONSIBILITY OF THE ABATEMENT CONTRACTOR TO MAINTAIN ALL MATERIALS, ITEMS, EQUIPMENT, SYSTEMS, ETC. IN ITS ORIGINAL CONDITION AND RETURN TO OWNER/GC, ETC. IN SAME CONDITION AT THE END OF THIS CONTRACT.
- REMOVE ALL TEMPORARY ENCLOSURES, BARRIERS, ETC. REINSTALL ITEMS/WORK PREVIOUSLY REMOVED, ALL TAPE AND ADHESIVE RESIDUALS TO BE REMOVED. TEST AND REPAIR.
- 4. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE AGAINST DAMAGE TO THE EXISTING WORK TO REMAIN IN PLACE. ANY DAMAGE TO SUCH WORK SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ARCHITECT AND OWNER AT NO ADDITIONAL COST TO THE CONTRACT
- 5. AT COMPLETION OF THE ABATEMENT WORK, A CONDITION SURVEY SHALL BE DONE BY ALL CONTRACTORS AND PROJECT INSPECTOR (SEE NOTE #2). ANY VARIATION (I.E. DAMAGE BY THE CONTRACTOR), AND OTHERWISE NOT INCLUDED AS PART OF THE RECONSTRUCTION WORK, SHALL BE REPAIRED/RESTORED BY THE ABATEMENT CONTRACTOR.
- 6. THE CONTRACTOR SHALL, UPON COMPLETION OF THE REMOVAL, PROVIDE WRITTEN DOCUMENTATION (INCLUDING ALL APPROPRIATE THIRD PARTY TESTING RESULTS) THAT THE PROJECT WORK AREAS ARE COMPLETELY FREE OF ALL ASBESTOS CONTAINING MATERIALS.
- 7. THE CONTRACTOR SHALL PROVIDE RECORDS OF ALL ASBESTOS CONTAINING MATERIALS REMOVED FROM THE SITE, INCLUDING THE COMPOSITION AND VOLUMES OF DISPOSED MATERIALS AND THE FINAL DISPOSAL SITE(S).









SECOND FLOOR ABATEMENT PLAN

SCALE: NTS

PLAN NORTH

GENERAL NOTES:

- 1. THE STRUCTURES HAVE BEEN DESIGNED IN COMPLIANCE WITH THE REQUIREMENTS OF 2020 BUILDING CODE OF NEW YORK STATE AND ASCE/SEI 7-16 "MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES".
- 2. CONTRACTOR AND SUBCONTRACTOR SHALL BE LICENSED BY NEW YORK STATE WHERE REQUIRED TO PERFORM THE SPECIFIED WORK. THE CONTRACTOR SHALL FURNISH ALL MATERIALS. LABOR AND EQUIPMENT NECESSARY TO ERECT / INSTALL ALL STRUCTURES AND ACCESSORIES AS REQUIRED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- 3. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, REGULATIONS, AND ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK INDICATED IN THE CONTRACT DOCUMENTS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS. APPROVALS, AS WELL AS THEIR ASSOCIATED FEES, EXCEPT WHERE SPECIFIED AND AGREED UPON ELSEWHERE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING HOISTING FACILITIES FOR HANDLING MATERIALS AND REMOVAL OF DEBRIS
- 6. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH CONDITIONS THEREON AND TO DETERMINE THE EXTENT OF ALL FACILITIES AND SERVICES REQUIRED TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 7. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH OTHER CONSTRUCTION DOCUMENTS. STRUCTURAL WORK SHALL BE COORDINATED WITH OTHER TRADES. ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
- 8. THE CONTRACTOR SHALL MAINTAIN ONE COPY OF THE LATEST CONTRACT DOCUMENTS INCLUDING ALL CHANGES AT THE JOB SITE FOR THE USE OF THE ARCHITECT & ENGINEER.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACTS AND OMISSIONS OF ALL THEIR EMPLOYEES AND ALL SUBCONTRACTORS, THEIR AGENTS AND EMPLOYEES, AND ALL OTHER PERSONS PERFORMING ANY OF THE WORK FOR THE CONTRACTOR.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED ANYWHERE WITHIN THE BOUNDARIES OF THE PROPERTY, AND ANY DAMAGE SHALL BE PROMPTLY REPAIRED TO ORIGINAL CONDITION TO THE SATISFACTION OF THE CLIENT'S REPRESENTATIVE AND/OR ARCHITECT AT NO COST TO THE CLIENT.
- 11. DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL REGULARLY REMOVE ALL UNUSED MATERIAL. RUBBISH AND DEBRIS FROM THE PROPERTY AND BROOM CLEAN DAILY. THE SITE AND PREMISES SHALL BE KEPT REASONABLY CLEAN, NEAT AND ORDERLY.
- 12. THE CONTRACTOR SHALL CONTROL CLEANING OPERATIONS TO PREVENT DIRT OR DUST FROM LEAVING THE JOB SITE AND INFILTRATING AREAS NOT INVOLVED IN THE PROJECT.
- 13. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO SUBMITTING BIDS AND SHOP DRAWINGS AND/OR FABRICATION AND SHALL REPORT ANY DEVIATIONS OF DIMENSIONS, DISCREPANCIES AND/OR CONDITIONS WHICH WOULD INTERFERE WITH THE COMPLETION OF THE WORK TO THE ARCHITECT AND/OR ENGINEER OF RECORD FOR RESOLUTION AND BEFORE PERFORMING THE WORK. COMMENCEMENT OF THE WORK SHALL SIGNIFY ACCEPTANCE OF ANY AND ALL JOB SITE CONDITIONS.
- 14. WHEN "APPROVED EQUAL", "EQUAL TO", "APPROVED ALTERNATE", OR WHERE OTHER QUALIFYING TERMS ARE USED. SUBSTITUTIONS SHALL BE BASED SOLELY UPON THE REVIEW AND APPROVAL OF THE ARCHITECT AND/OR ENGINEER. THE BURDEN OF PROOF THAT A PRODUCT OR SYSTEM MEETS OR EXCEEDS THAT WHICH WAS SPECIFIED LIES ENTIRELY ON THE CONTRACTOR.
- 15. NOTATIONS ON ANY PLAN, ELEVATION, SECTION, OR DETAIL ARE APPLICABLE TO ALL PLANS. ELEVATIONS. SECTIONS. AND DETAILS. IF A CONFLICT ARISES ENGINEER AND/OR ARCHITECT OF RECORD SHALL BE INFORMED TO CLARIFY.
- 16. DO NOT SCALE DRAWINGS, USE DIMENSIONAL NOTATION ONLY.
- 17. LARGE SCALE DRAWINGS (I.E. SECTIONS, DETAILS, ETC.) TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS. TYPICAL SECTIONS AND DETAILS SHOWN ON THE DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS.
- 18. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION.
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE & STABILITY OF ALL STRUCTURES UNDER RENOVATION/CONSTRUCTION FOR THE WHOLE DURATION OF CONSTRUCTION.

DESIGN LOADS

1. RISK CATEGORY

2.	RO	ROOF LIVE LOAD 20 PS			
3.	WIN a. b.	ID LOAD PARAMETERS: BASIC WIND SPEED EXPOSURE CATEGORY	122 MF C		
4.	SEII a. b. c. d. e. f.	SMIC LOAD PARAMETERS: Ss S1 SDS SD1 SITE CLASS IMPORTANCE FACTOR	0.287 0.061 0.300 0.098 D 1.25		

5. SNOW LOAD PARAMETERS: a. GROUND SNOW LOAD 30 PSF b. IMPORTANCE FACTOR 1.1

c. EXPOSURE FACTOR 1.0 1.2 TEMPERATURE FACTOR e. ROOF SLOPE FACTOR 1.0

SEISMIC DESIGN CATEGORY B

MISCELLANEOUS STRUCTURAL STEEL:

- 1. STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC STEEL CONSTRUCTION MANUAL, 15TH EDITION, ANSI/AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND ANSI/AISC 303-16 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
- 2. MATERIALS SHALL CONFORM TO THE STANDARDS LISTED:
- a. W-SHAPES: ASTM A992
- b. PLATES, ANGLES AND CHANNELS: ASTM A36
- c. COLD-FORMED HSS: ASTM A500 GRADE B
- d. ANCHOR RODS: ASTM F1554, GRADE 36
- e. STRUCTURAL BOLTS: ASTM A325
- 3. WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARD D1.1 ELECTRODES FOR SHOP AND FIELD WELDS SHALL CONFORM TO AWS, CLASS E70XX. LOW HYDROGEN.
- 4. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE EOR AS FOR LOCATION, TYPE OF SPLICE AND CONNECTION TO BE MADE.
- 5. THE CONTRACTOR SHALL NOTIFY EOR OF ANY MISFABRICATED STRUCTURAL STEEL OR JOISTS PRIOR TO ERECTION OF SAME
- 6. PENETRATIONS SHALL NOT BE CUT IN STRUCTURAL STEEL MEMBERS UNLESS SO INDICATED IN THE DRAWINGS OR AS APPROVED BY THE ENGINEER OF RECORD.
- 7. FILLET WELDS SHALL BE A MINIMUM OF $\frac{3}{16}$ ".
- 8. ALL STEEL MEMBERS AND CONNECTIONS EXPOSED TO THE WEATHER SHALL BE HOT DIP GALVANIZED. STEEL MEMBERS, FABRICATIONS AND ASSEMBLIES INDICATED ON THE DRAWINGS TO BE GALVANIZED SHALL BE GALVANIZED AFTER FABRICATION BY HOT DIP PROCESS IN ACCORDANCE WITH ASTM A123. WEIGHT OF ZINC COATING TO CONFORM TO THE REQUIREMENTS SPECIFIED UNDER "WEIGHT OF COATING" IN ASTM A123 OR ASTM A386, AS APPLICABLE.
- 9. USE \(\frac{3}{8}\)" MINIMUM GUSSET PLATE THICKNESS, UNLESS OTHERWISE NOTED.

STRUCTURAL STABILITY NOTE:

THE STRUCTURES SHALL BE ADEQUATELY GUYED AND BRACED TO MAINTAIN SAFETY AND ALIGNMENT DURING ALL PHASES OF CONSTRUCTION. SUCH GUYING AND BRACING SHALL REMAIN IN PLACE UNTIL THE STRUCTURE HAS REACHED ADEQUATE STRENGTH AND/OR ALL PERMANENT BRACING IS IN PLACE. ENSURE THAT CONSTRUCTION OPERATIONS AND PROCEDURES IMPOSE NO LOADING GREATER THAN THE DESIGN LOADS ON ANY MEMBER.

SUBMITTALS REQUIRED:

THE FOLLOWING ITEMS REQUIRE SUBMITTAL OF SHOP AND ERECTION DRAWINGS FOR REVIEW:

a. STRUCTURAL STEEL

SPECIAL AND PROGRESS INSPECTIONS:

SPECIAL & PROGRESS INSPECTIONS REQUIRED BY THE 2020 BUILDING CODE OF NEW YORK STATE SHALL BE PERFORMED BY A TESTING AGENCY ENGAGED BY THE CONSTRUCTION MANAGER AT THEIR EXPENSE (NOT TO BE PERFORMED BY THE ENGINEER OF RECORD, EXCEPT FINAL INSPECTION) FOR THE FOLLOWING

INSPECTION	REF. STANDARD	BC REF.
STEEL CONSTRUCTION:	,	
 HIGH-STRENGTH BOLTS, NUTS, AND WASHERS MATERIAL VERIFICATION 	ANSI/AISC 360-16: Table N5.6-1	1705.2.1
HIGH-STRENGTH BOLTING	ANSI/AISC 360-16: Table N5.6-2 & Table N5.6-3	
MATERIAL VERIFICATION OF STRUCTURAL STEEL	ANSI/AISC 360-16: N5.1, N5.2	
 MATERIAL VERIFICATION OF WELD FILLER MATERIALS 	ANSI/AISC 360-16: Table N5.4-1	
INSPECTION OF WELDING	ANSI/AISC 360-16: Table N5.4-2 & Table N5.4-3	
 WELDER QUALIFICATION/CERTIFICATION AND WELDING PROCEDURES VERIFICATION 	ANSI/AISC 360-16: Table N5.4-1	

GENERAL LEGEND & ABBREVIATIONS:

W6x20	NEW STEEL MEMBER DESIGNATION (ON FRAMING PLANS & ELEVATIONS ONLY)
W10x22	EXISTING STEEL MEMBER DESIGNATION (ON FRAMING PLANS & ELEVATIONS ONLY)
	NEW STRUCTURAL STEEL

---- EXISTING STRUCTURAL STEEL

B.O.S.	BOTTOM OF STEEL
T.O.C.	TOP OF CONCRETE
T.O.G.	TOP OF GRATING
T.O.R.	TOP OF RAIL
TOC	TOD OF STEEL

TOP OF STEEL 1.0.8. EL. **ELEVATION**

E.S. **EACH SIDE** F.S. FAR SIDE

N.S. **NEAR SIDE** (E) **EXISTING** NEW (N)

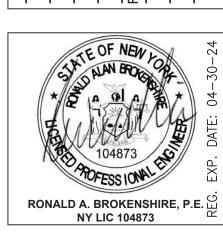
CENTERLINE PL. **PLATE** DN DOWN

EQ **EQUAL** OPP **OPPOSITE HAND**

SIM **SIMILAR** TYP **TYPICAL**

VERIFY IN FIELD

V.I.F.

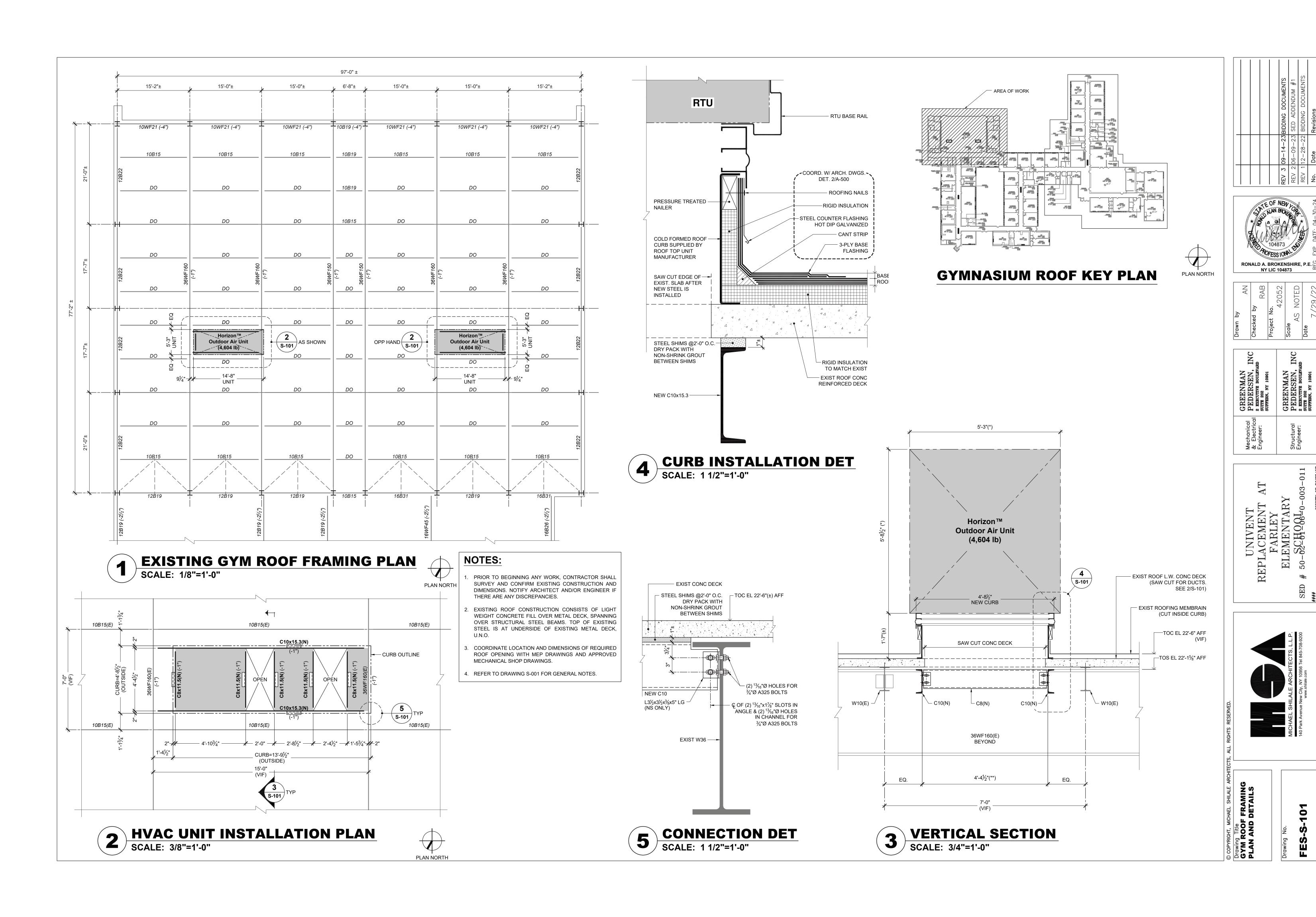


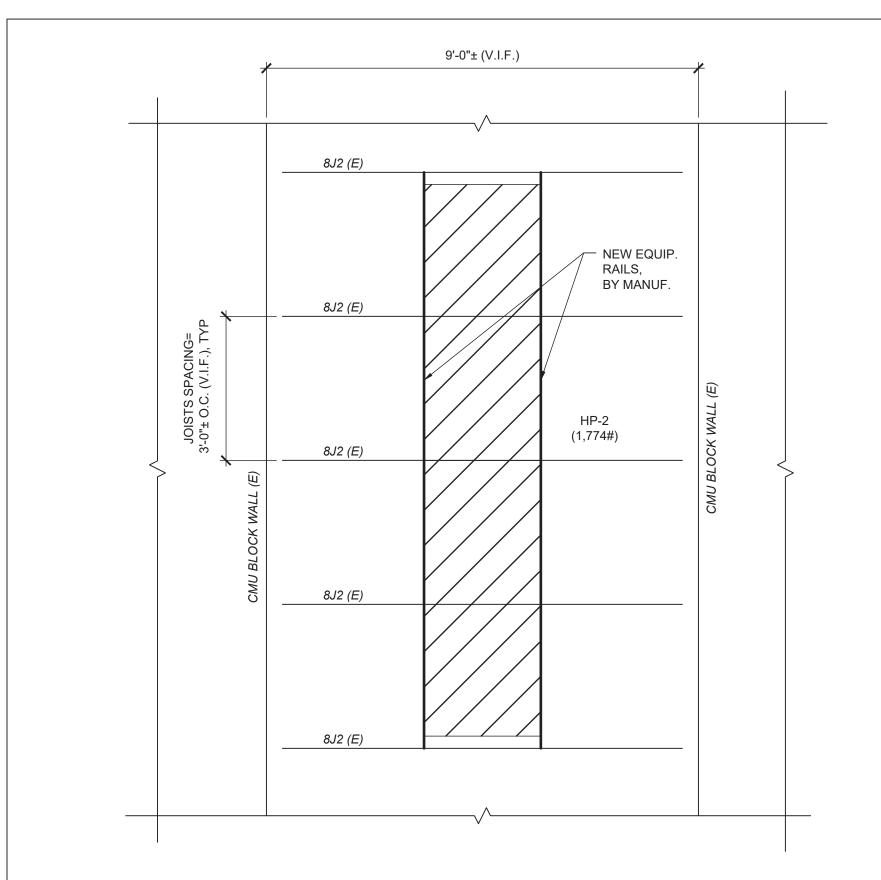
AN
Checked by
RAB
Project No.
42052
Scale
AS NOTED
Date

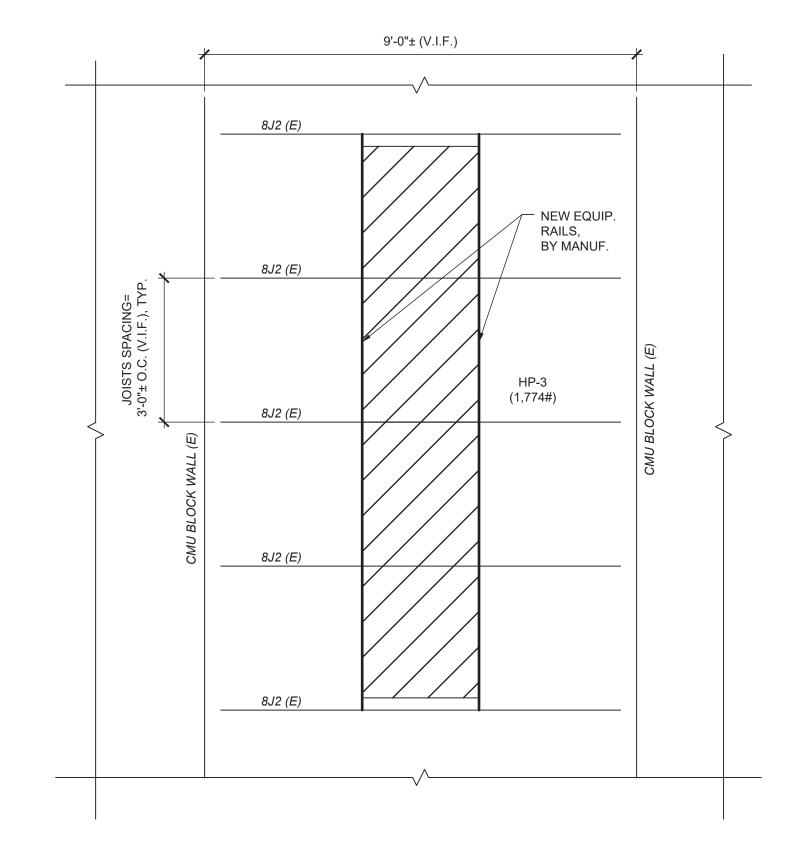
GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901
Mechanical & Electrical Engineer:	Structural Engineer:

REPLACEMEN FARLEY FARY SCHOOI UNIVENT AT ELEMENT

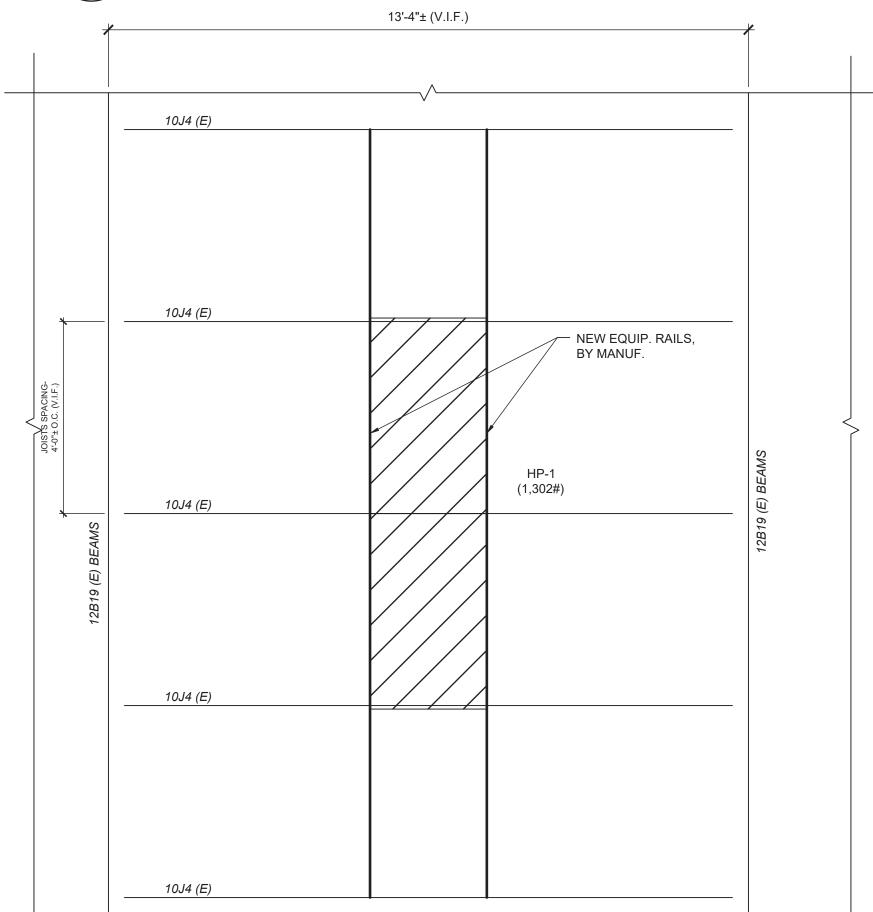




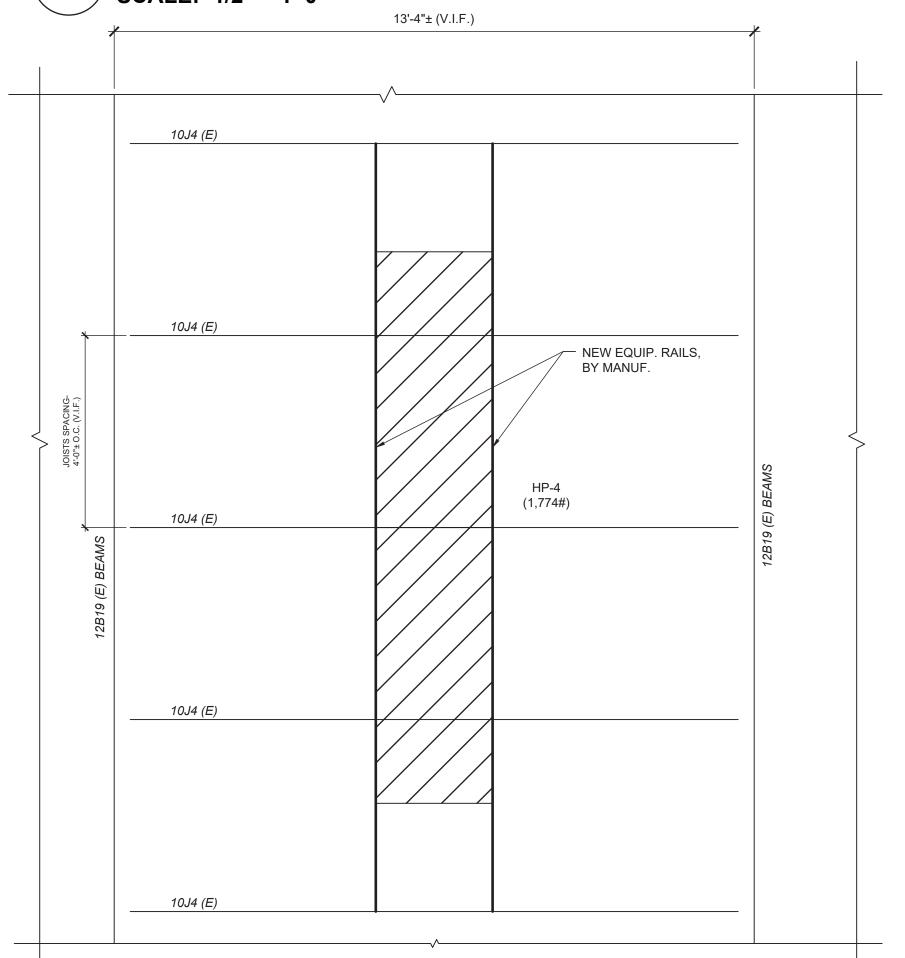




ROOF PART PLAN UNDER HP-2 SCALE: 1/2" = 1'-0"



ROOF PART PLAN UNDER HP-3 SCALE: 1/2" = 1'-0"

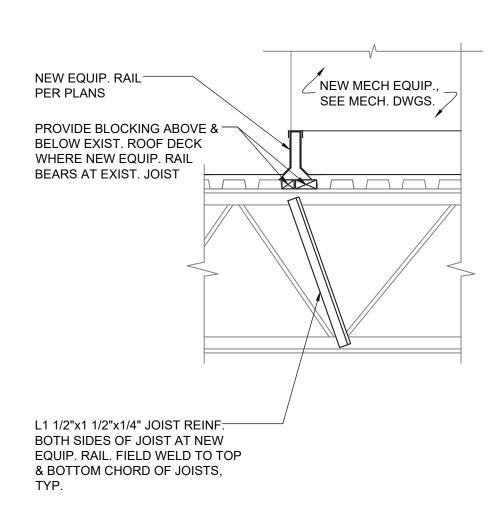


ROOF PART PLAN UNDER HP-1 SCALE: 1/2" = 1'-0"

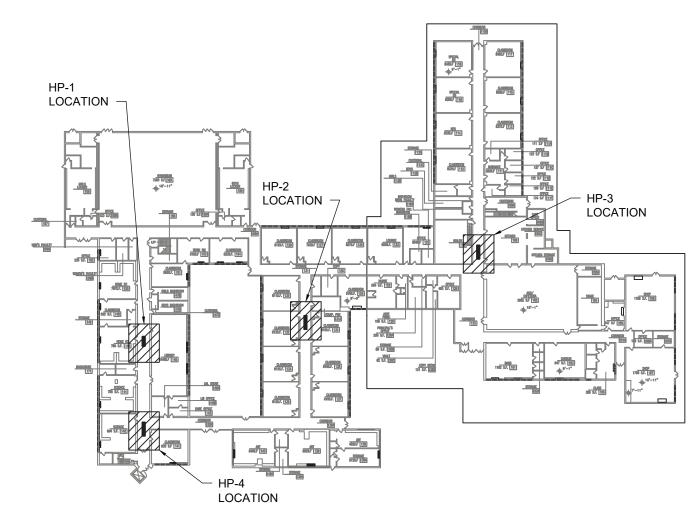
ROOF PART PLAN UNDER HP-4 SCALE: 1/2" = 1'-0"

NOTES:

- 1. ALL UNITS SHALL BE CENTERED ON EXISTING JOISTS.
- 2. ALL EQUIPMENT RAILS SHALL SPAN OVER FIVE (5) EXISTING JOISTS,
- 3. ALL JOISTS SUPPORTING EQUIPMENT RAILS SHALL BE REINFORCED
- PER DETAIL 5/FES-S-102.
- 4. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD. NOTIFY ENGINEER OF RECORD IF ANY DISCREPANCIES ARE FOUND.
- 5. NO OTHER MECHANICAL OR ELECTRICAL UNITS OR EQUIPMENT SHALL BE LOCATED ON JOISTS SUPPORTING THE NEW UNITS.

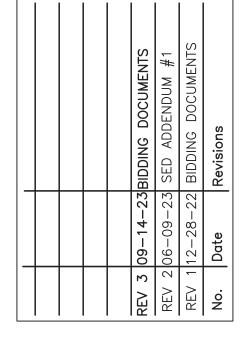


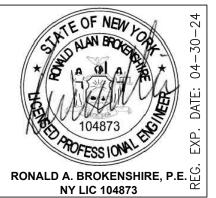




ROOF KEY PLAN



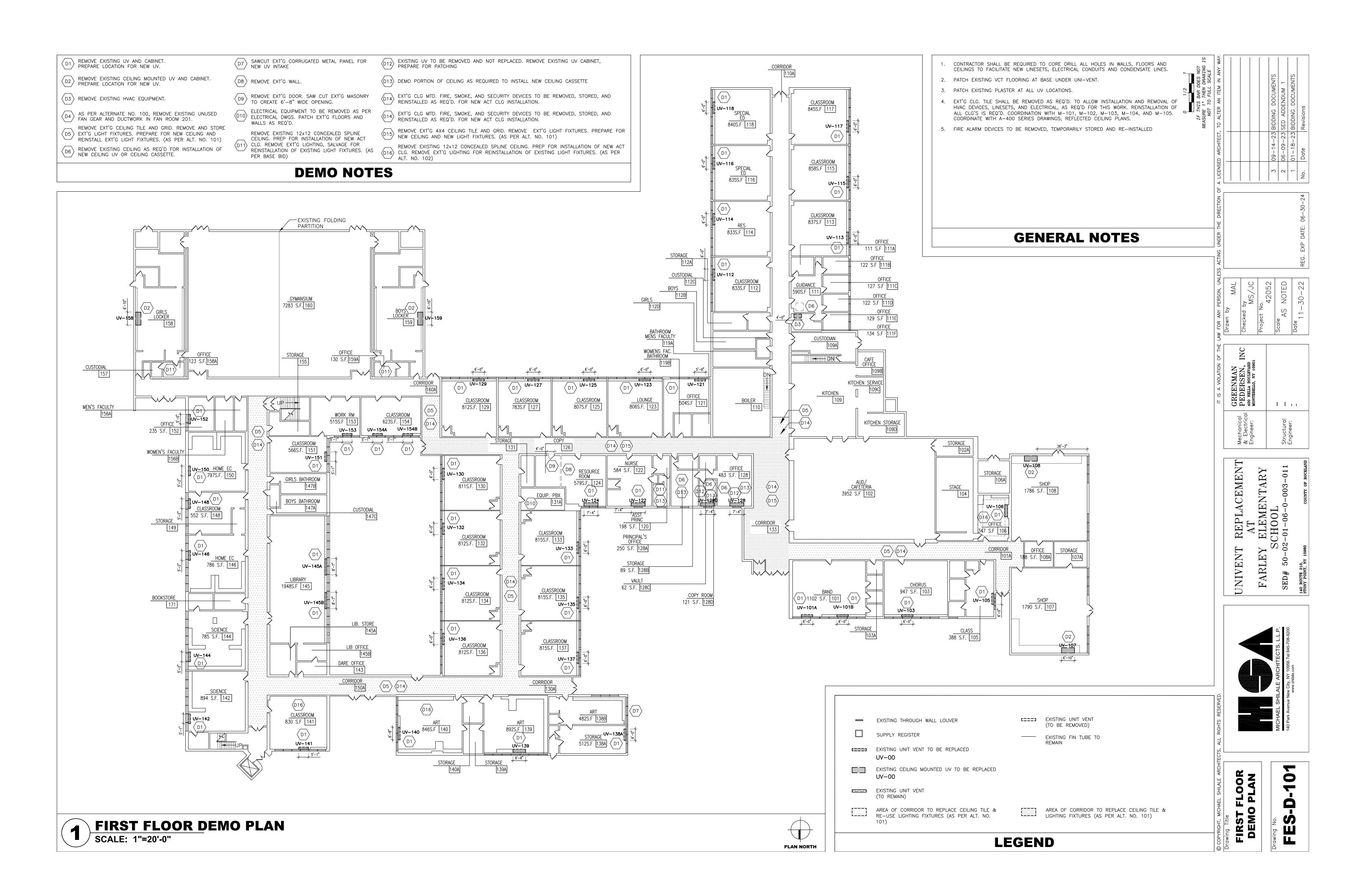


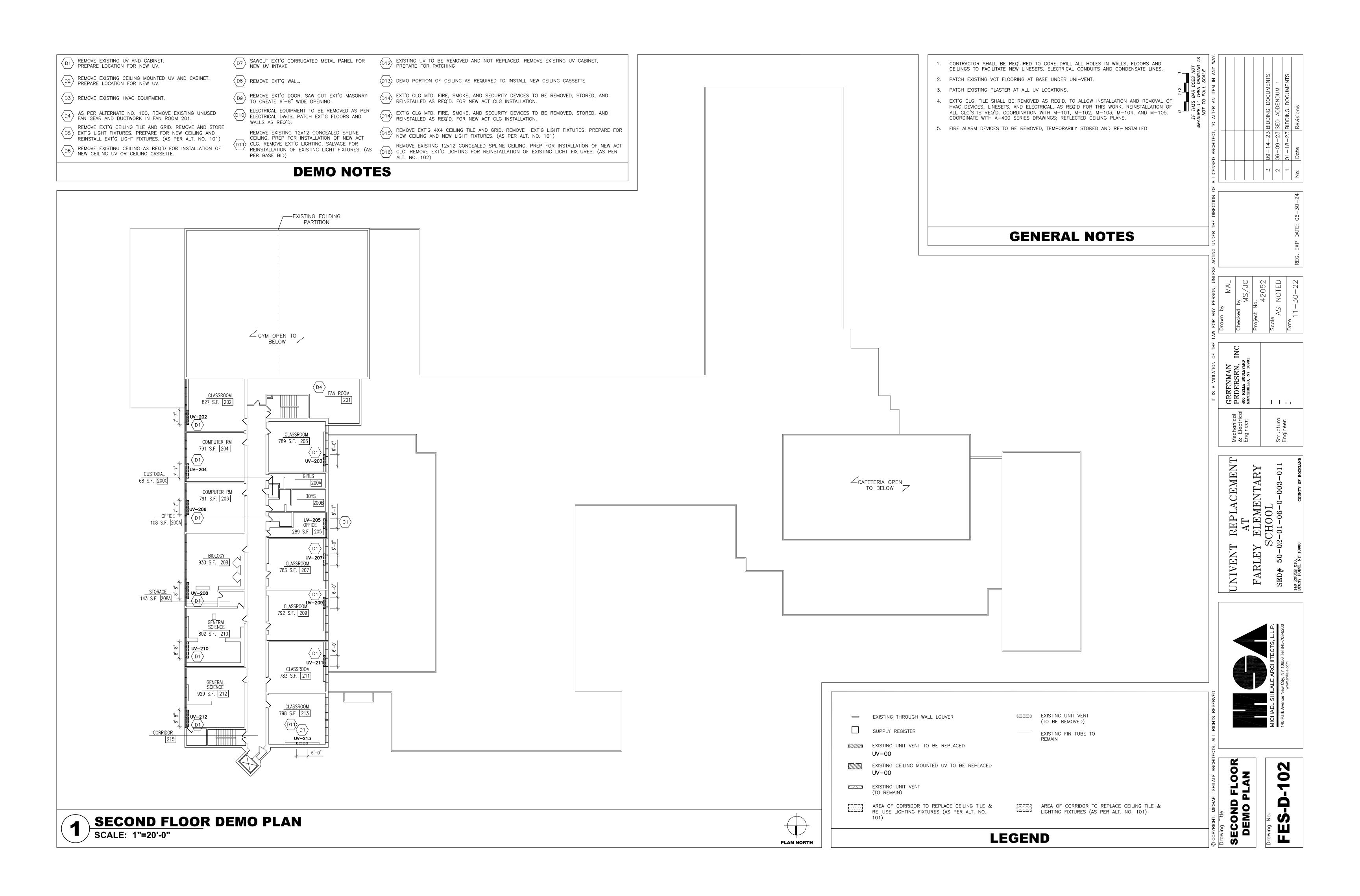


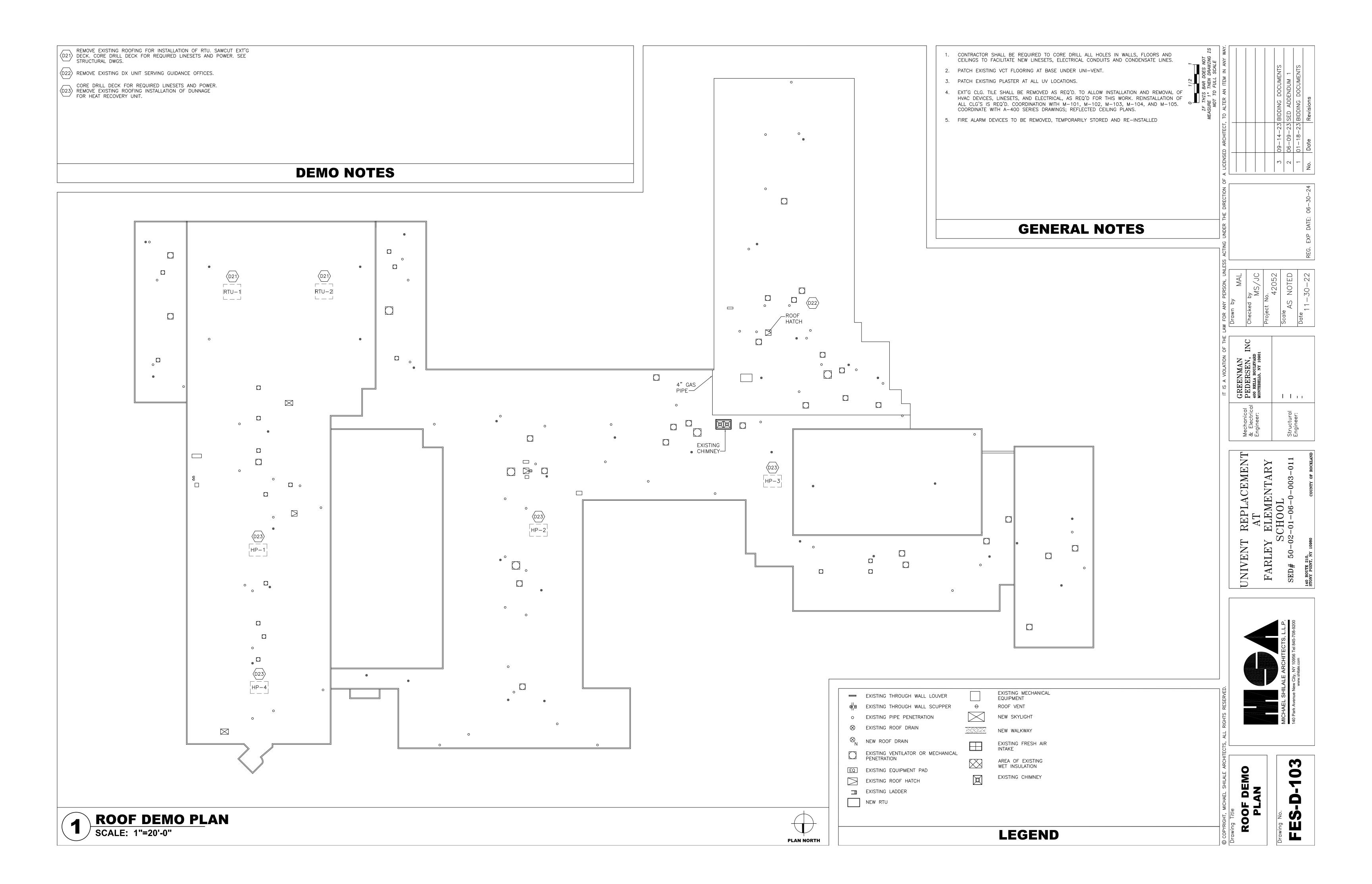
YAY	Shecked by RAB	Project No. 42052	Scale AS NOTED	Date 7/29/22

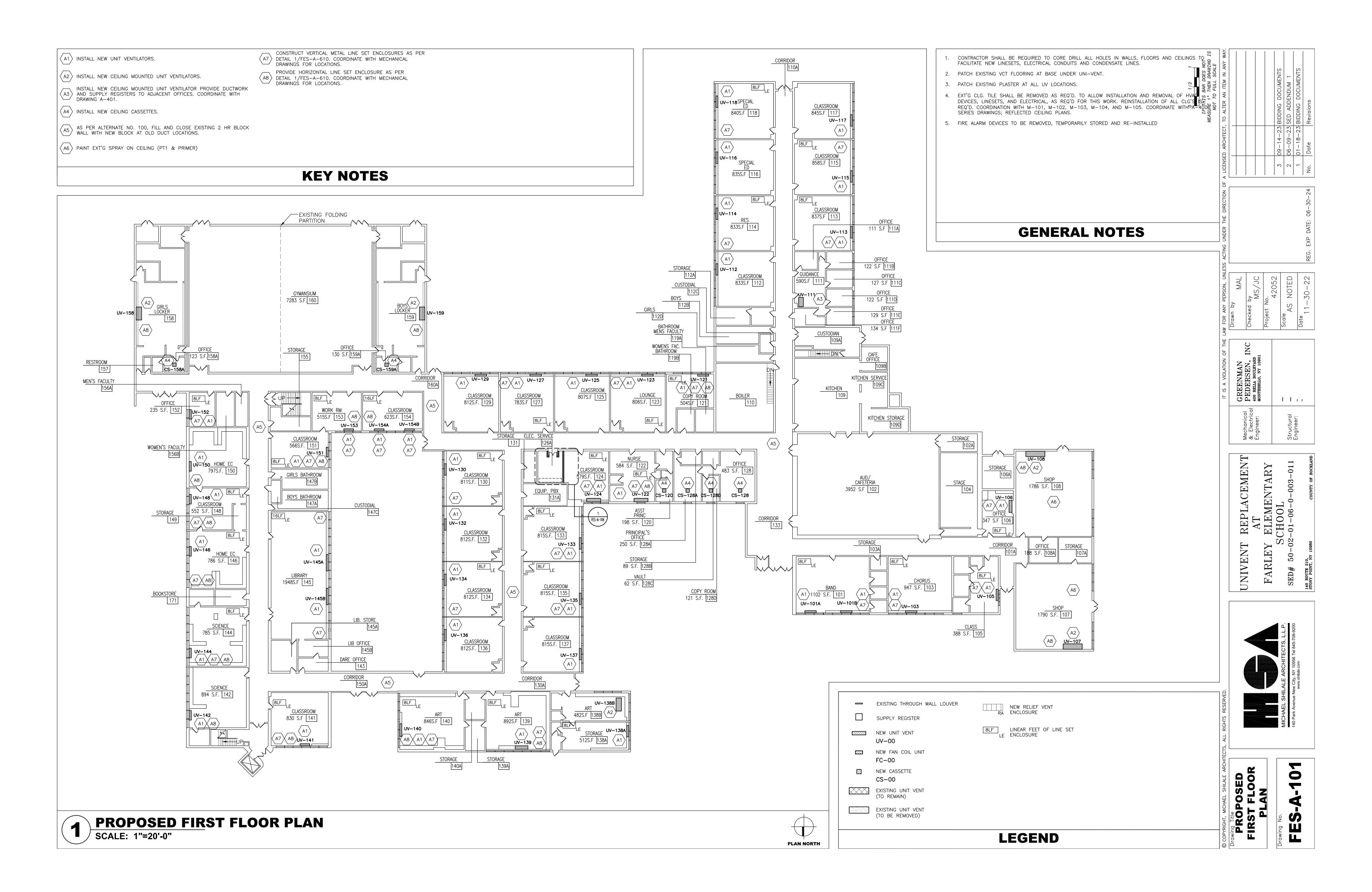
GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC z executive boulevard suite 202 suite 202 suite 202
Mechanical & Electrical Engineer:	Structural Engineer:

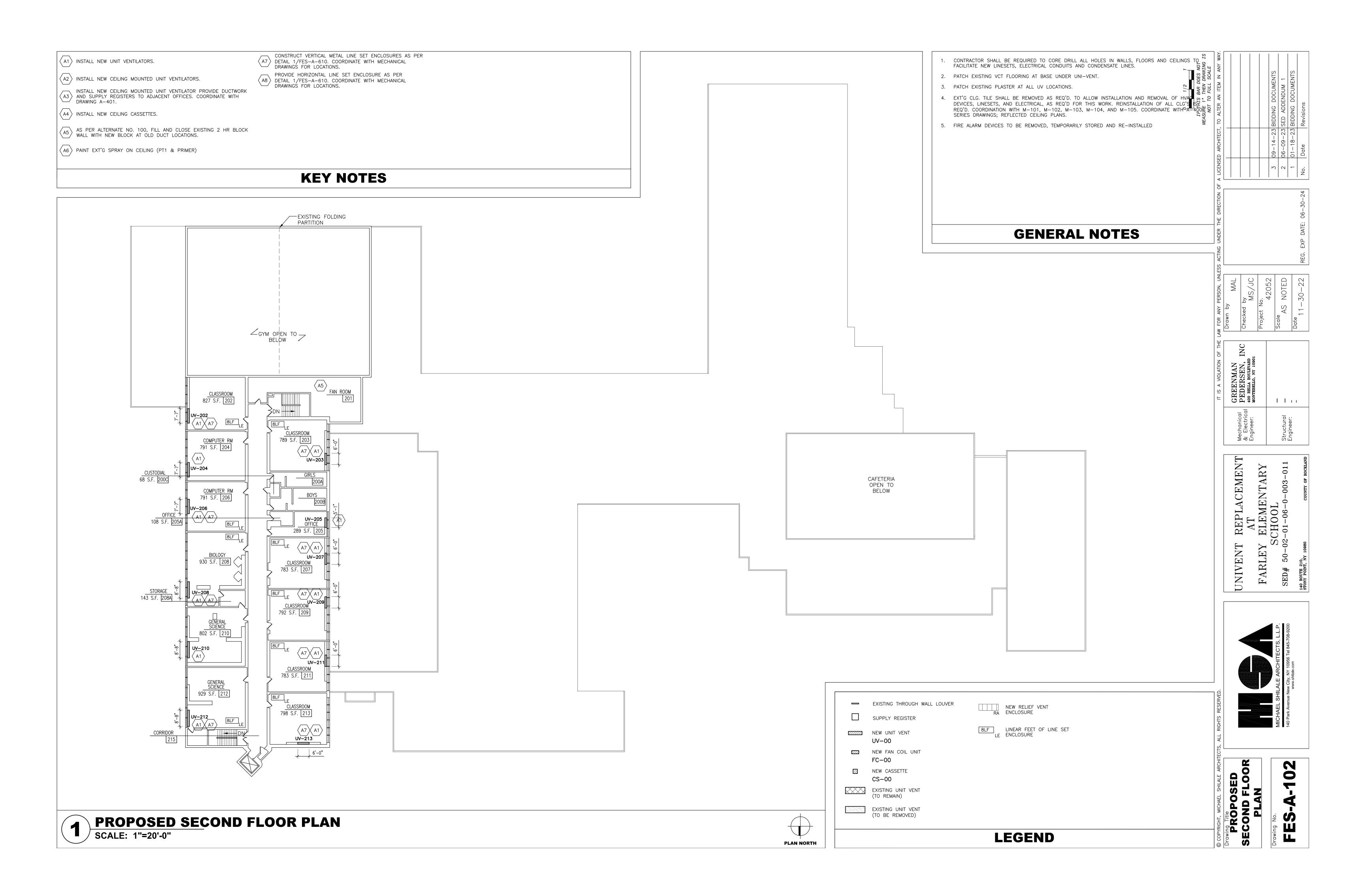


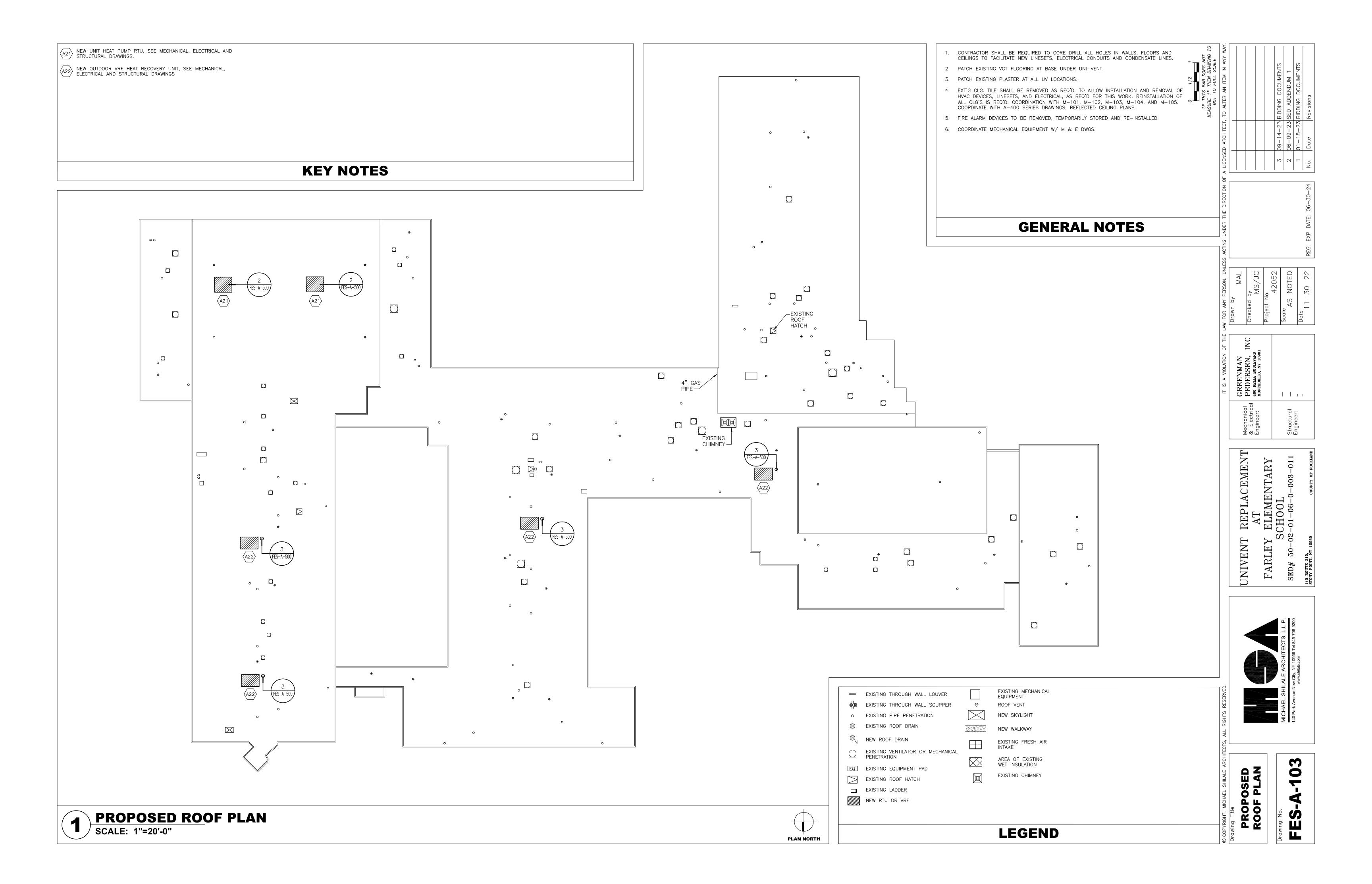


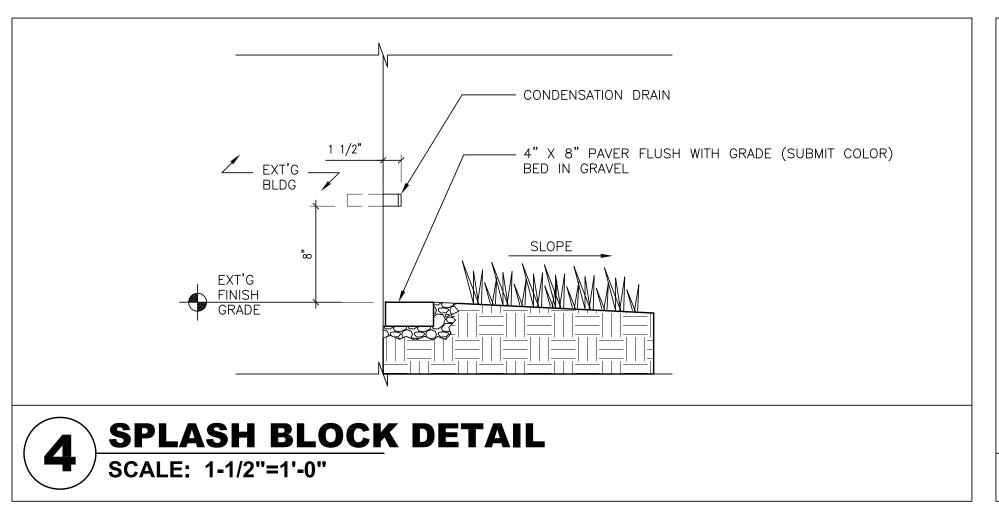


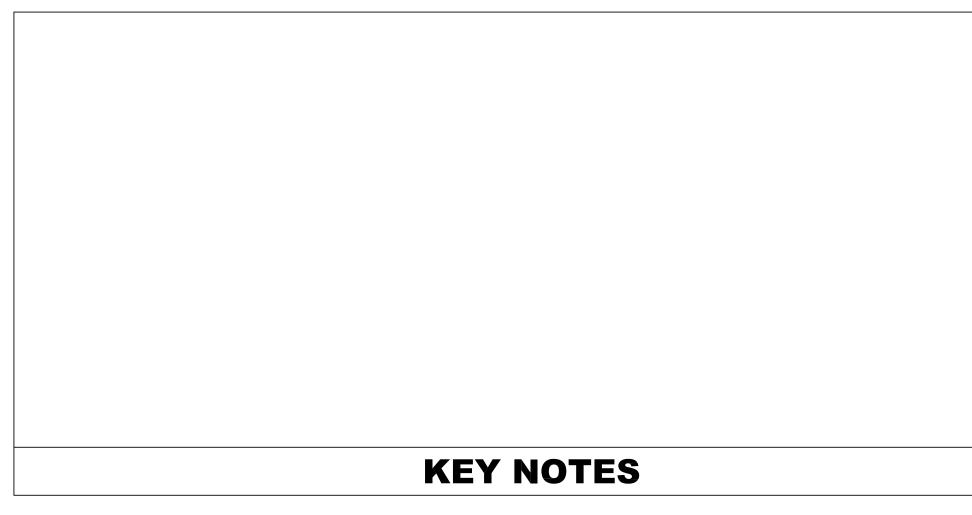


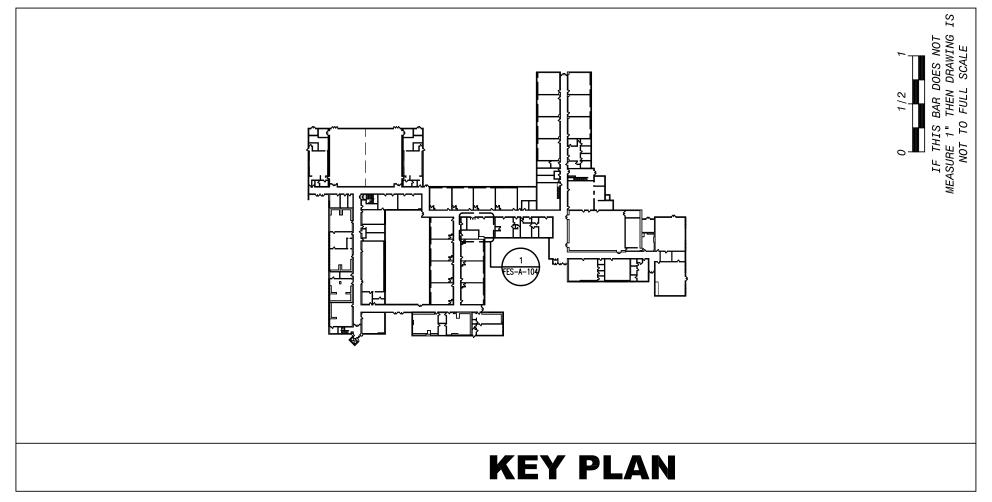


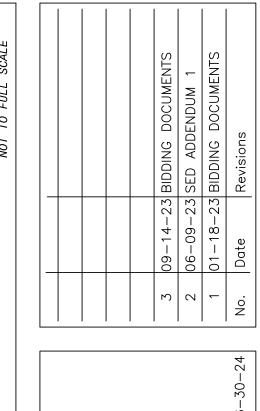


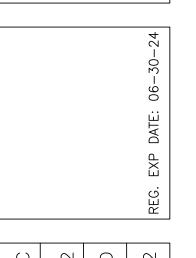


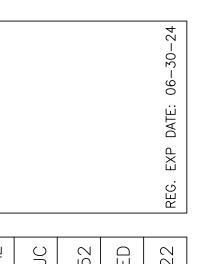


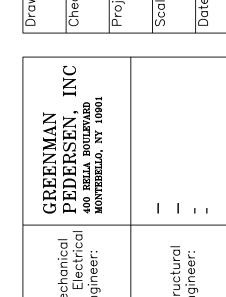




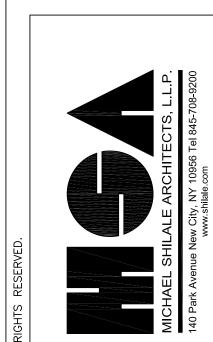


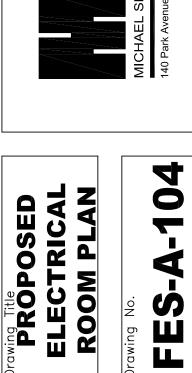


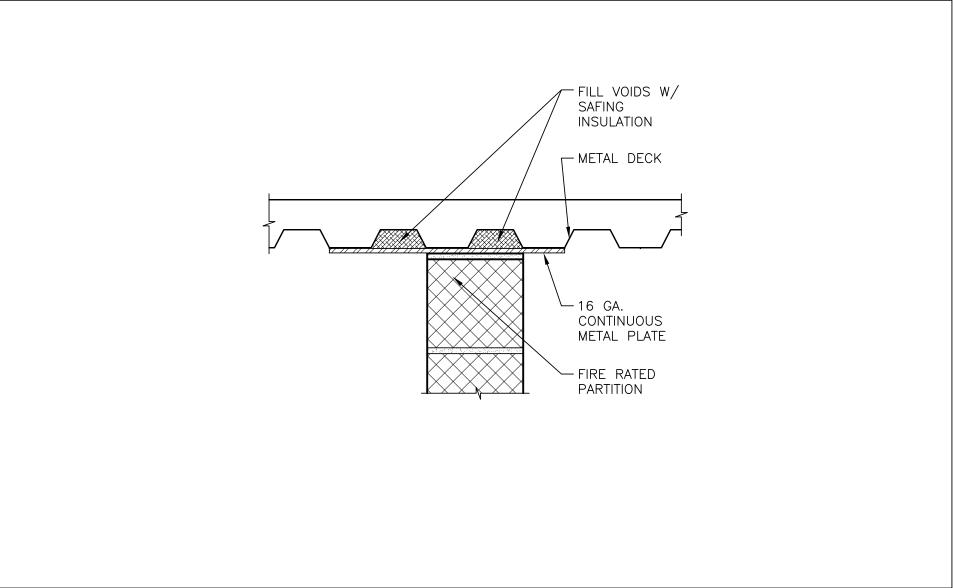


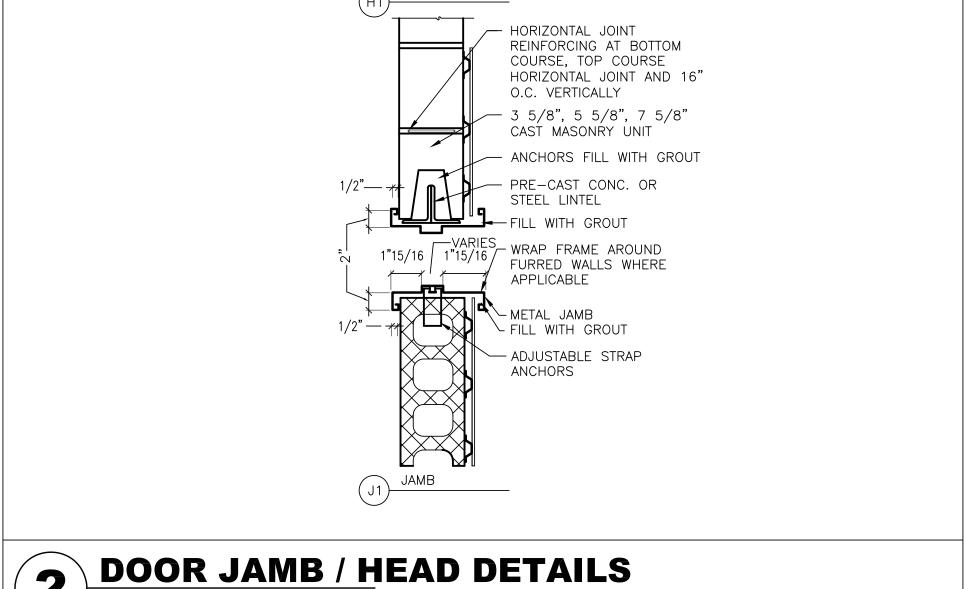


NT REPLACEMENT
AT
EY ELEMENTARY
SCHOOL
0-02-01-06-0-003-011 FARLEY









SCALE: 1/2"=1'-0"

SCALE: 1/4" = 1'-0"

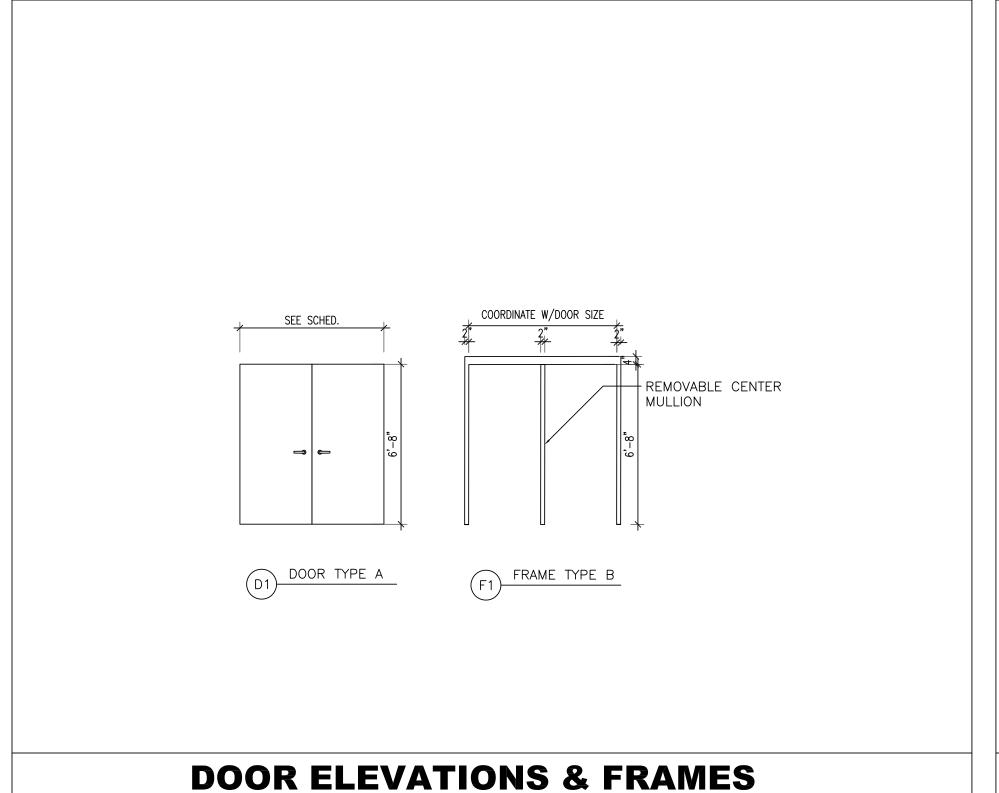
DOOR SADDLE DETAILS

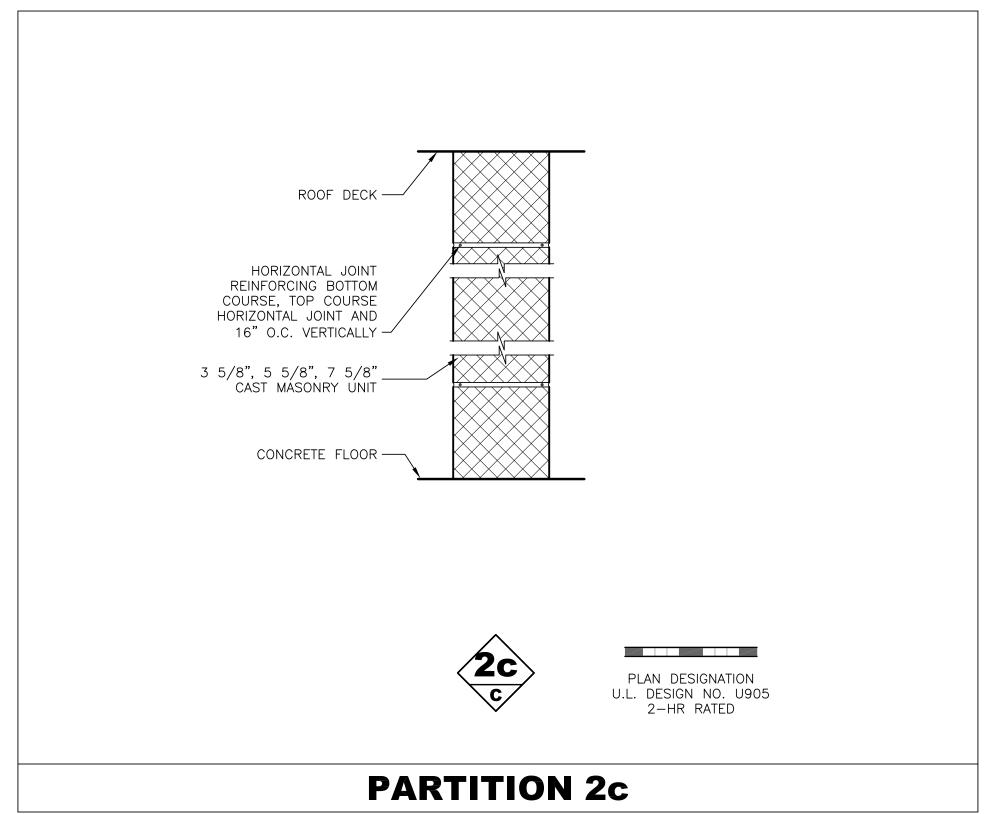
- METAL SILL (HANDICAP ACCESSIBLE)

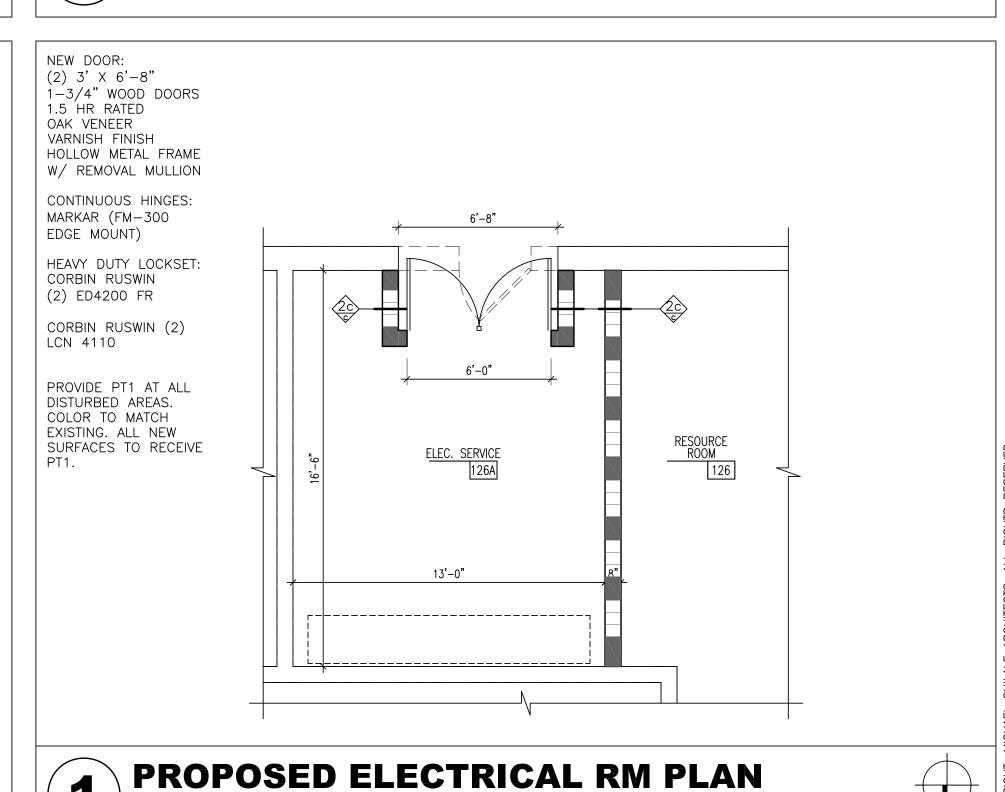
— CONTINOUS WEATHER STRIPPING

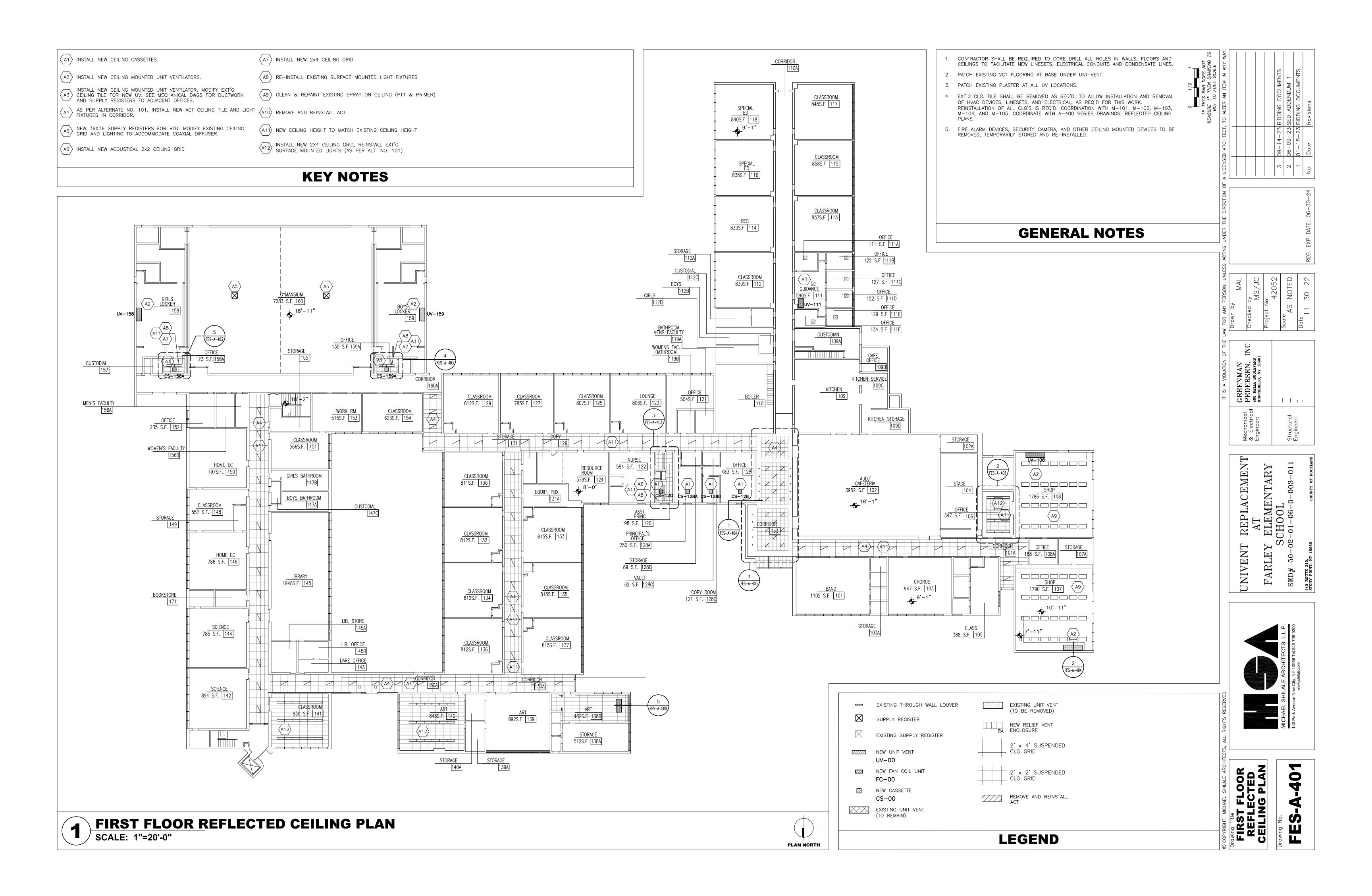
- H.M. FRAME

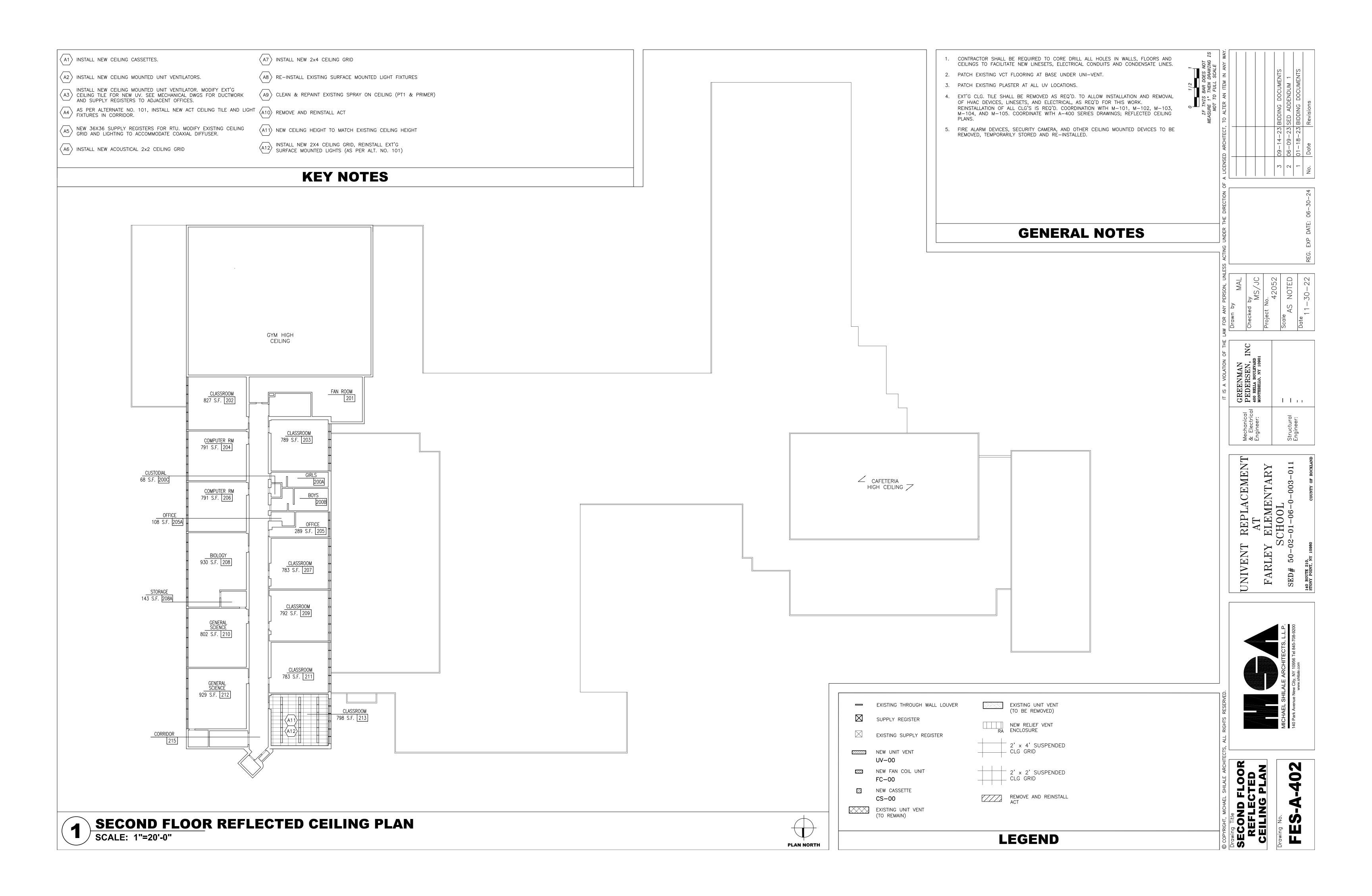


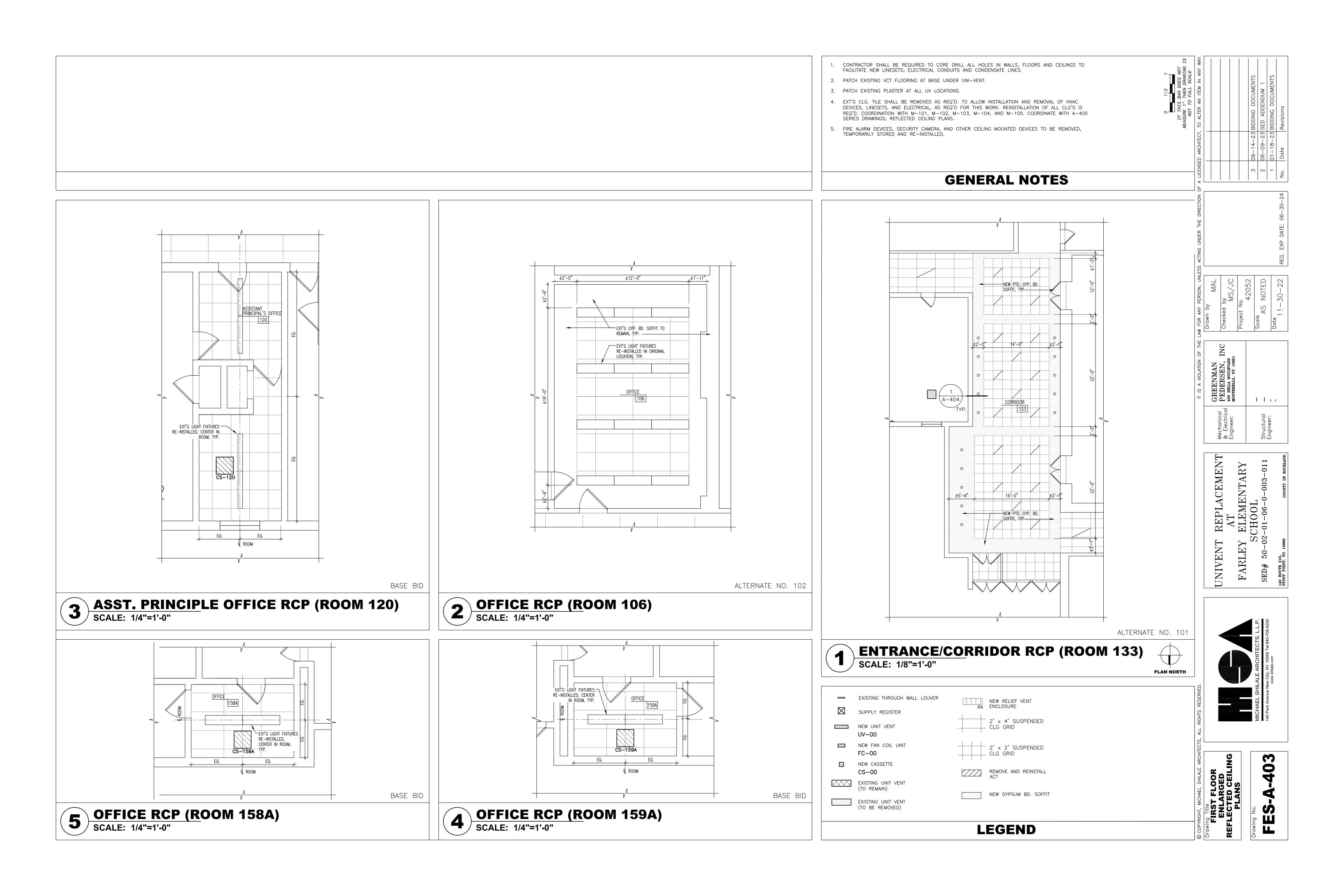


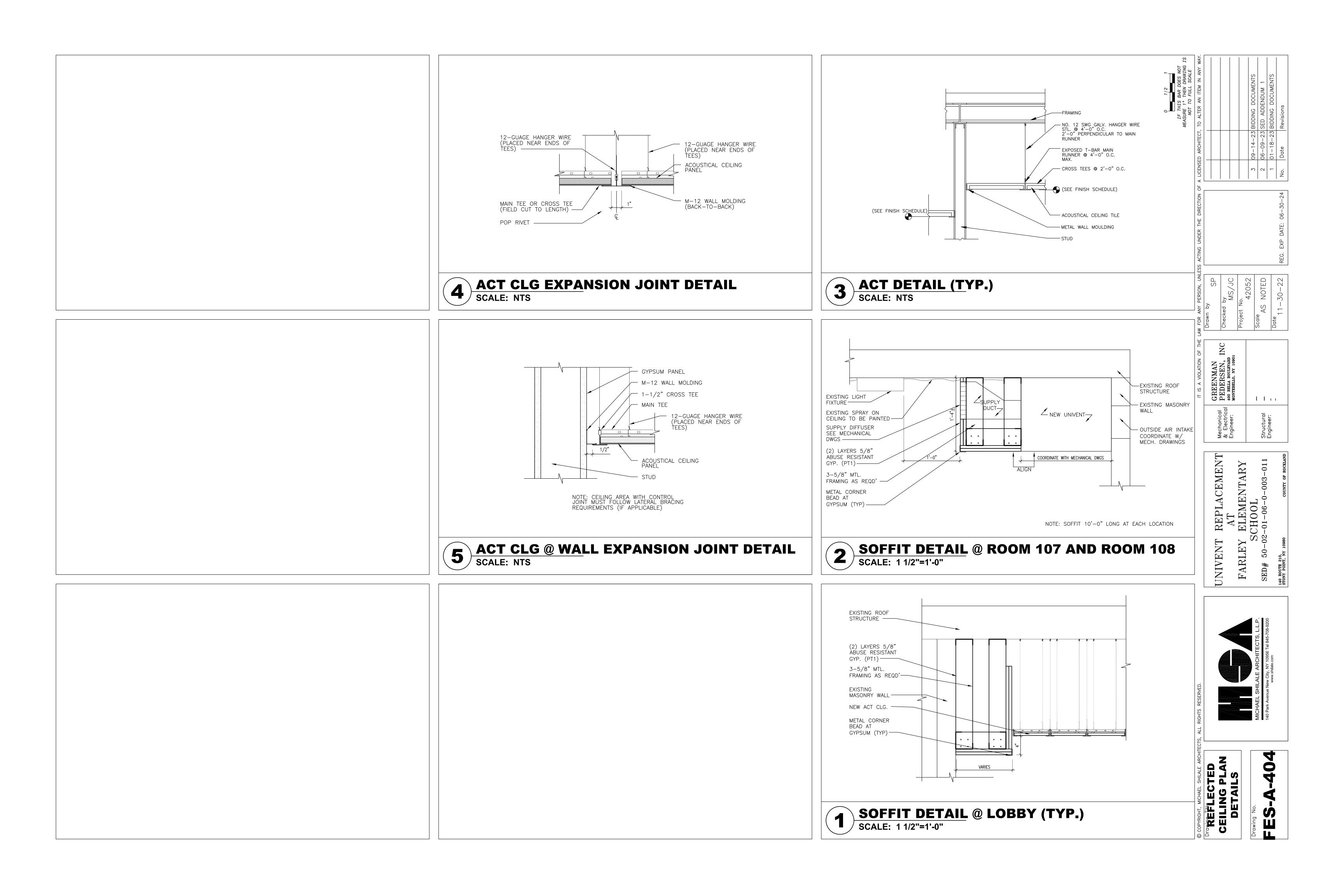


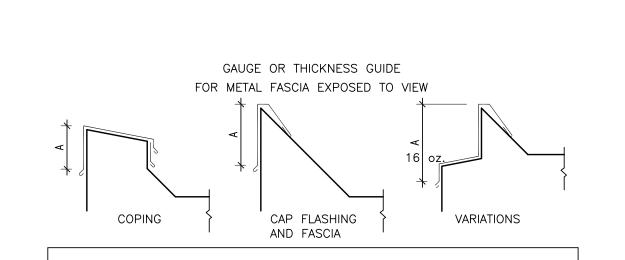












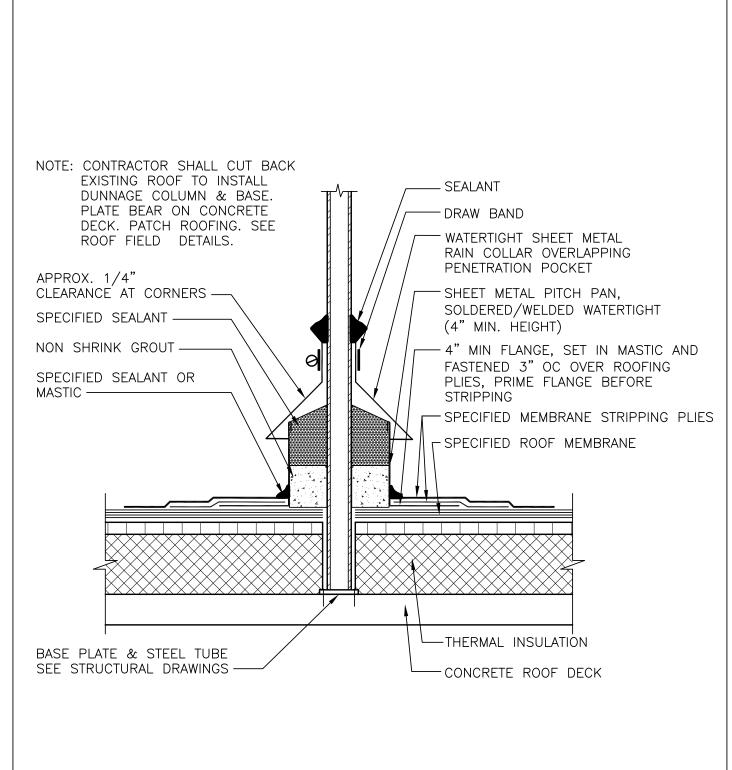
RECO	DMMENDED MINIMU	JM GAUGES FOR I	FASCIA SHOWN AE	BOVE
EXPOSED FACE WITHOUT BREAKS "A" DIMENSION	CLEAT REQUIRED	GALVANIZED IRON	COLD ROLLED COPPER	ALUMINUM 3003-H14
UP TO 4" FACE	NO	26 GA.	16 oz.	.032" (20 GA.)
4" TO 6" FACE	YES	26 GA.	16 oz.	.040" (18 GA.)
6" TO 8" FACE	YES	24 GA.		.050" (16 GA.)
8" TO 10" FACE	YES	22 GA.	20 oz.	.064" (14 GA.)
10" TO 15" FACE	YES	20 GA.	ADD BRAKES TO STIFFEN	.080" (12 GA.)

NOTE:

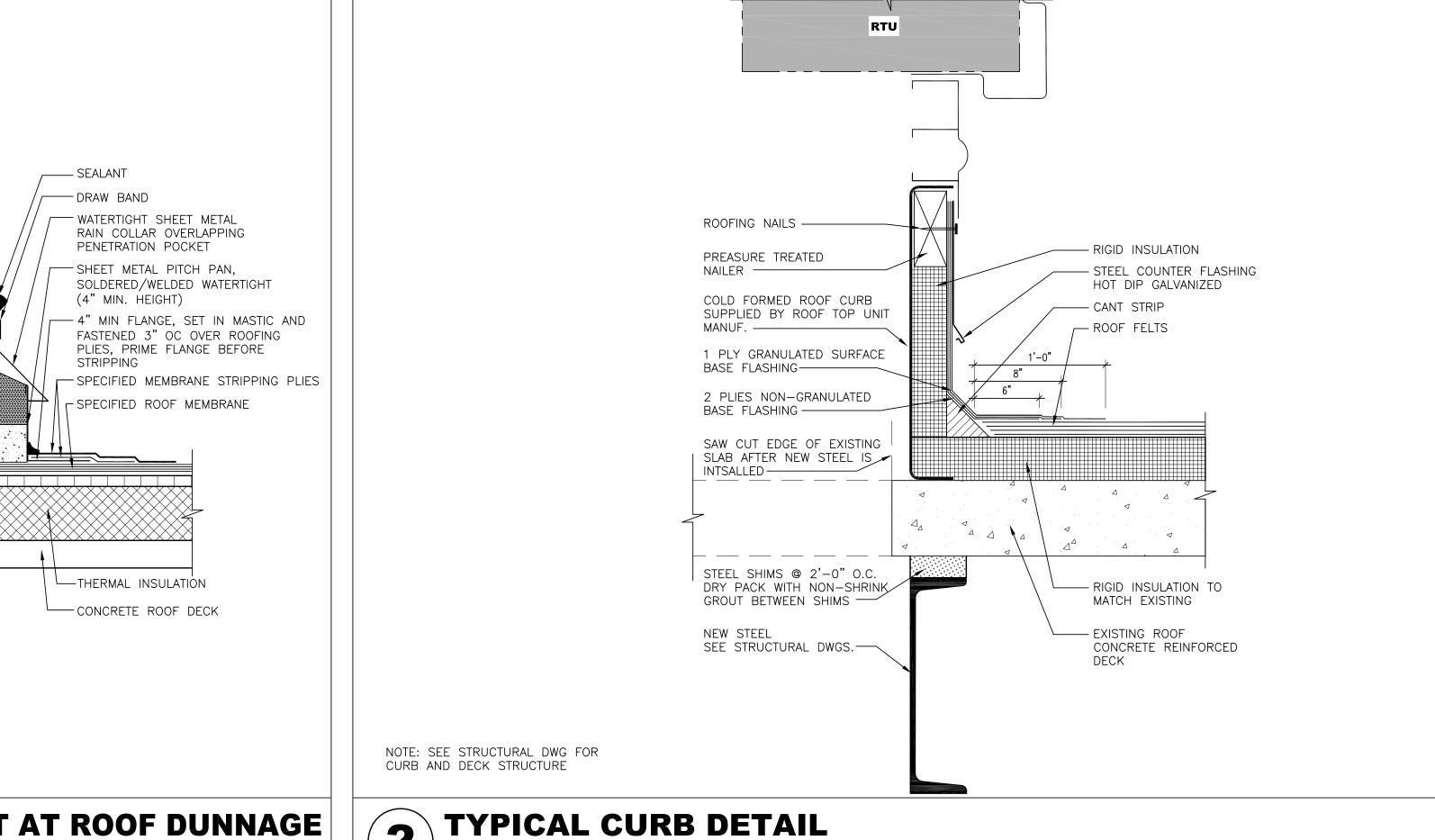
SCALE: N.T.S.

1. WHEN USING THE ABOVE TABLE, OTHER ITEMS SHOULD BE CONSIDERED, SUCH AS FASTENING PATTERN. FOR INSTANCE, IF THE METAL CAN ONLY BE FASTENED AT 100' FOOT INTERVALS, A HEAVIER GAUGE METAL WOULD BE REQUIRED. ALL CLEATS SHALL BE CONTINUOUS AND OF SAME MATERIAL OF EQUAL OR GREATER THICKNESS THAN THE FASCIA METAL USED.

FASCIA THICKNESS



PITCH POCKET AT ROOF DUNNAGE SCALE: 3" = 1'-0"



SCALE: 3"=1'-0"

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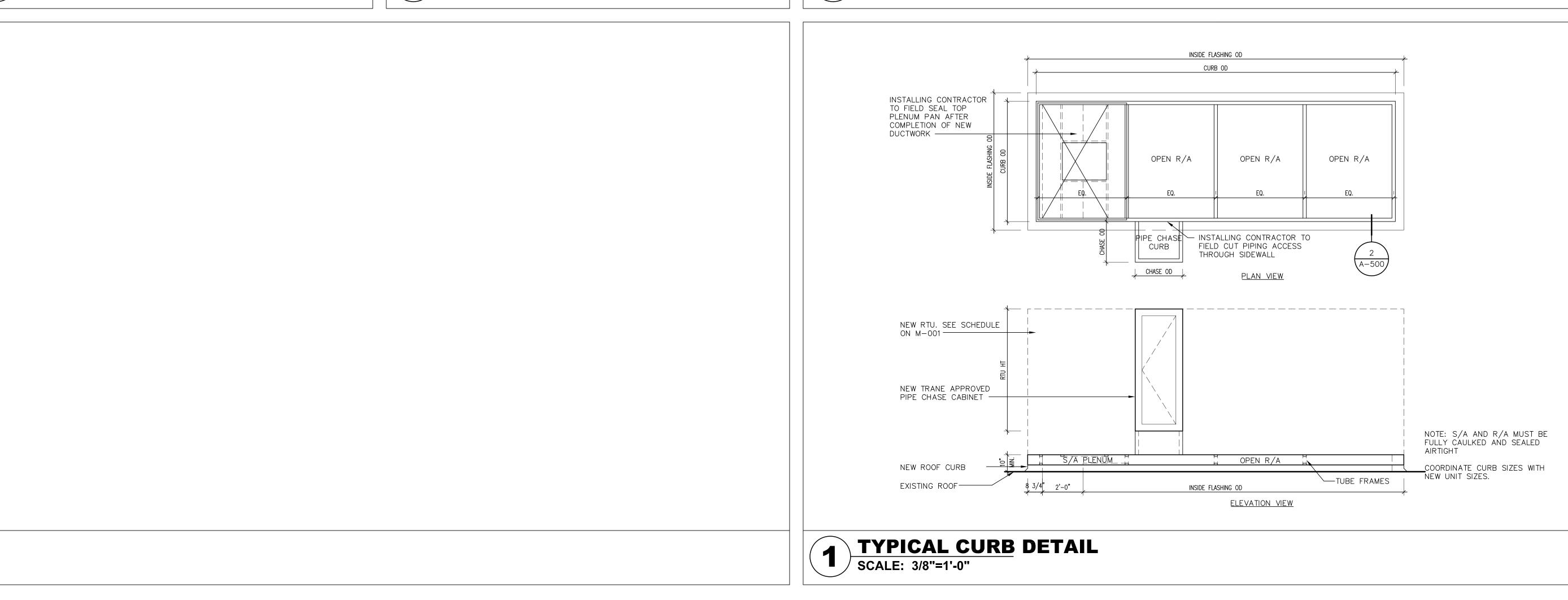
AT ELEMENTARY SCHOOL 2-01-06-0-003-01

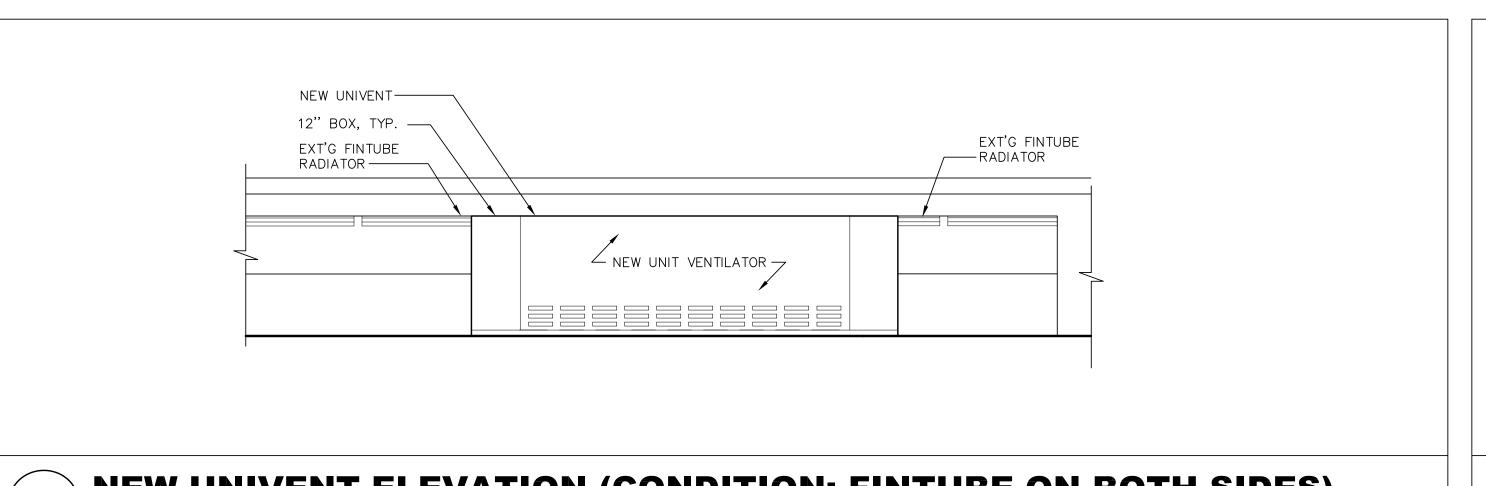
FARLE

DETAILS

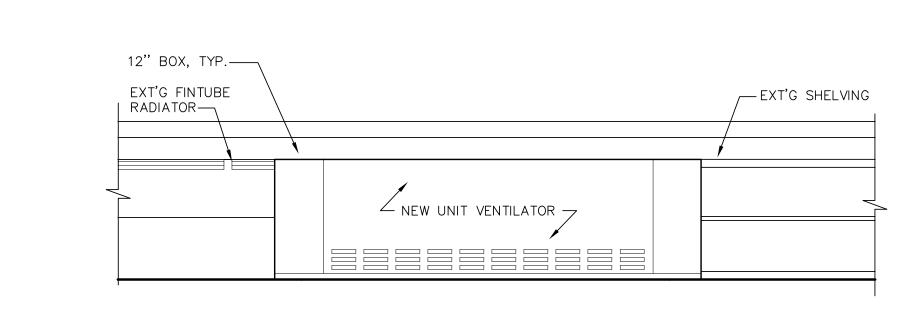
ROOF

500

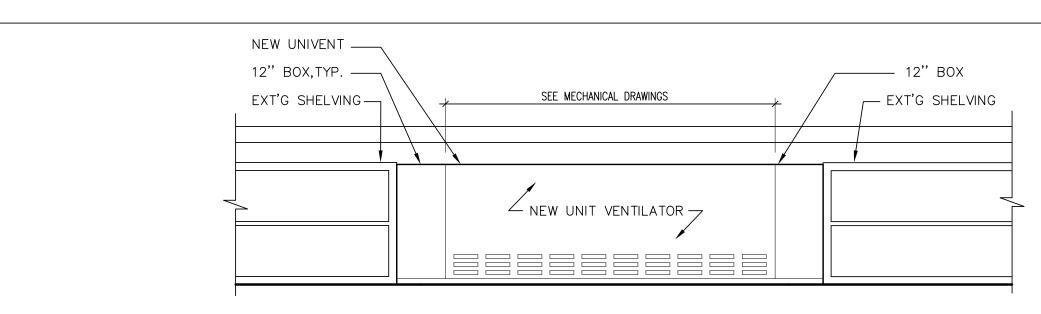




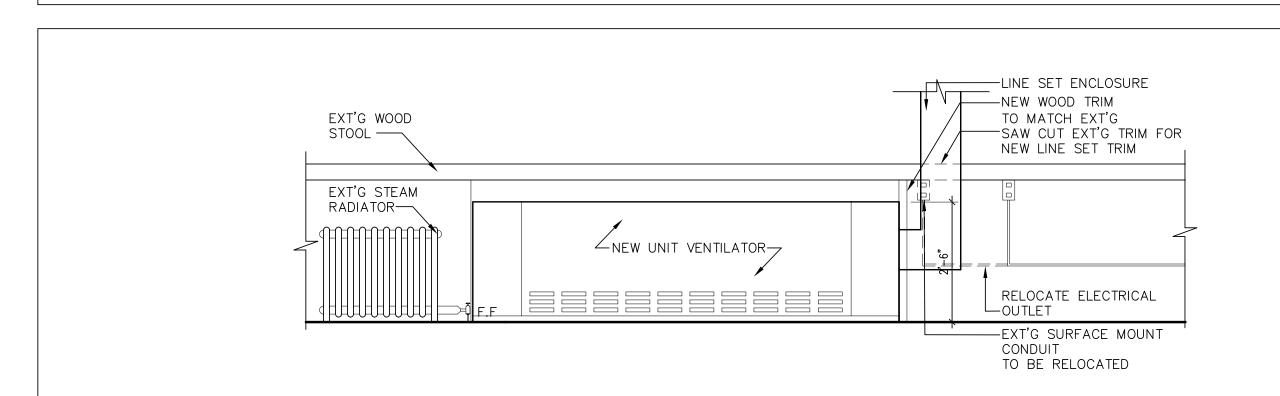
NEW UNIVENT ELEVATION (CONDITION: FINTUBE ON BOTH SIDES) SCALE: 1/2" = 1'-0"



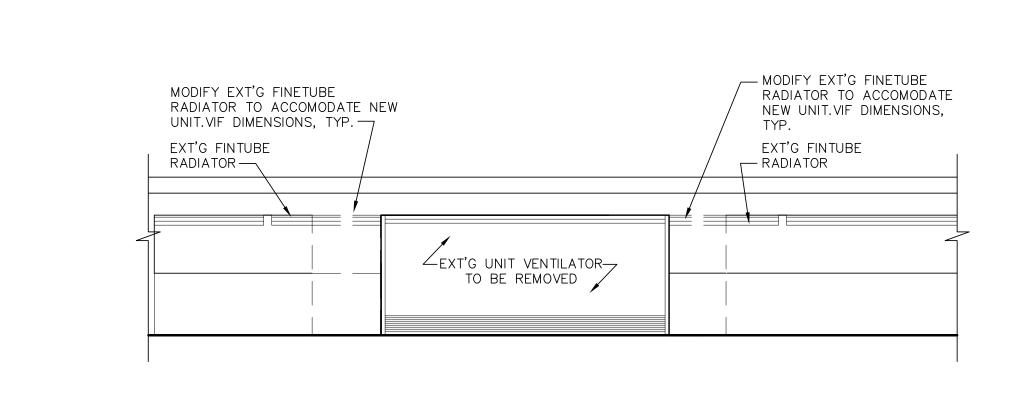
NEW UNIVENT ELEVATION (CONDITION: CASEWORK ONE SIDE, SCALE: 1/2" = 1'-0" FINTUBE ONE SIDE)



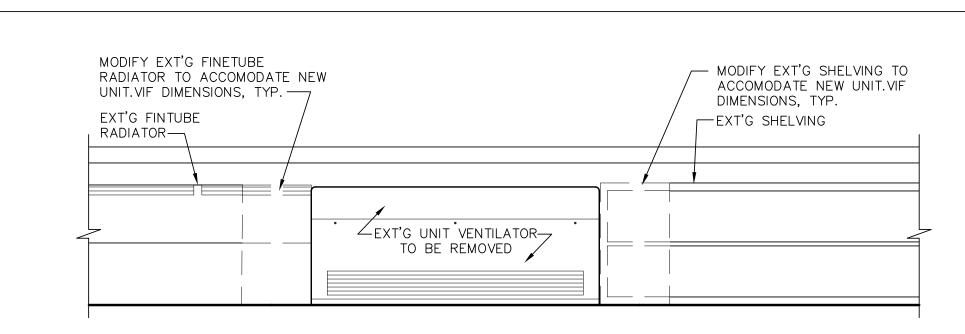
NEW UNIVENT ELEVATION (CONDITION: CASEWORK ON BOTH SIDES) SCALE: 1/2" = 1'-0"



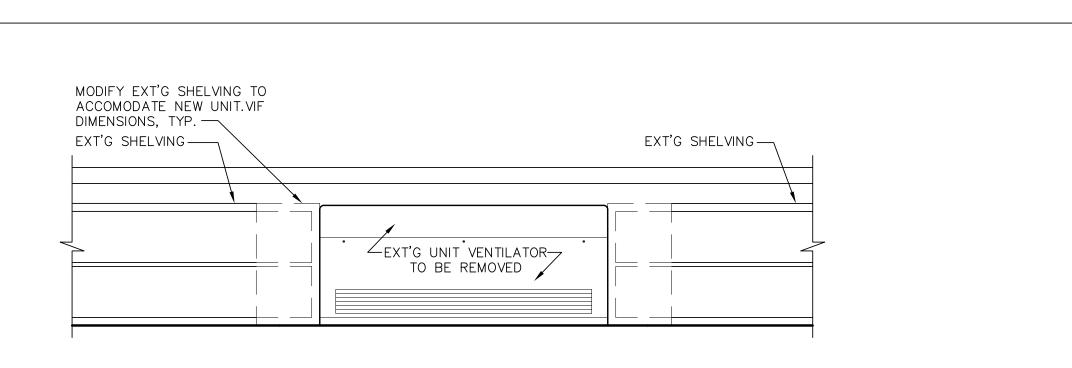
NEW UNIVENT ELEVATION (W/ELECTRICAL SCOPE) SCALE: 1/2" = 1'-0"



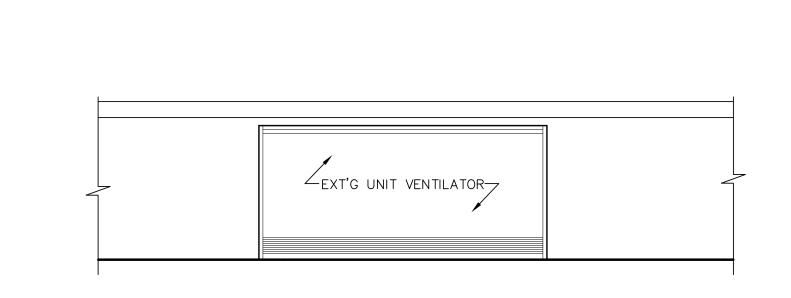
EXISTING UNIVENT REMOVAL ELEVATION (CONDITION: FINTUBE ON SCALE: 1/2" = 1'-0" **BOTH SIDES**)



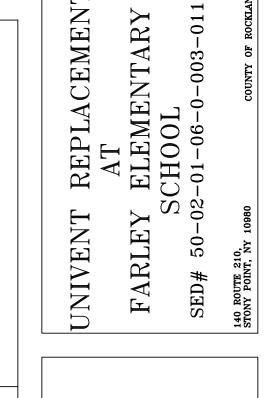
EXISTING UNIVENT REMOVAL ELEVATION (CONDITION: CASEWORK SCALE: 1/2" = 1'-0" ONE SIDE, FINTUBE ONE SIDE)



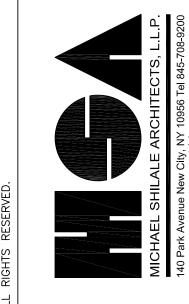
EXISTING UNIVENT REMOVAL ELEVATION (CONDITION: CASEWORK SCALE: 1/2" = 1'-0" ON BOTH SIDES) SCALE: 1/2" = 1'-0"



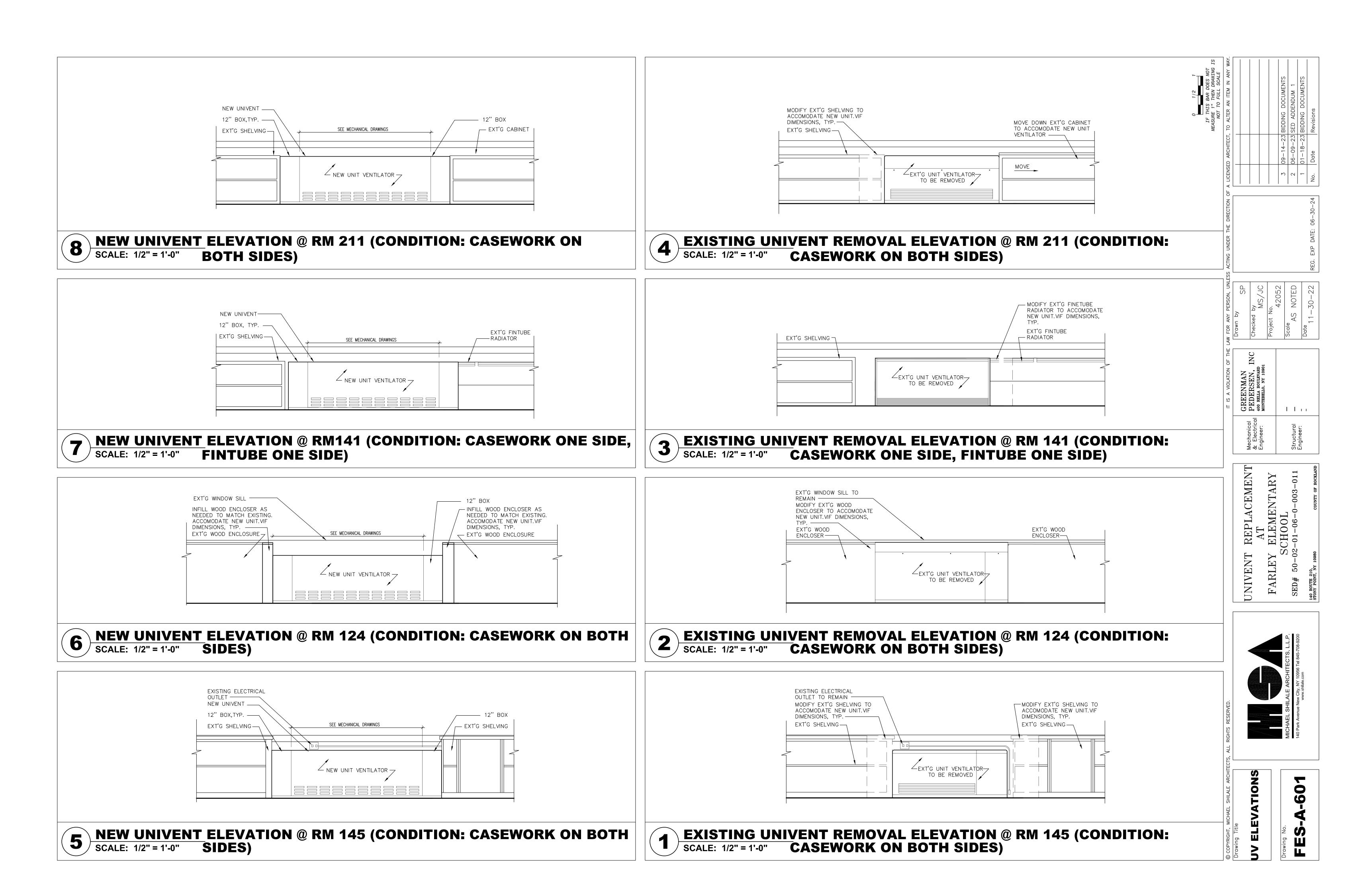
EXISTING UNIVENT ELEVATION (CONDITION: FREE STANDING UNIT) SCALE: 1/2" = 1'-0"

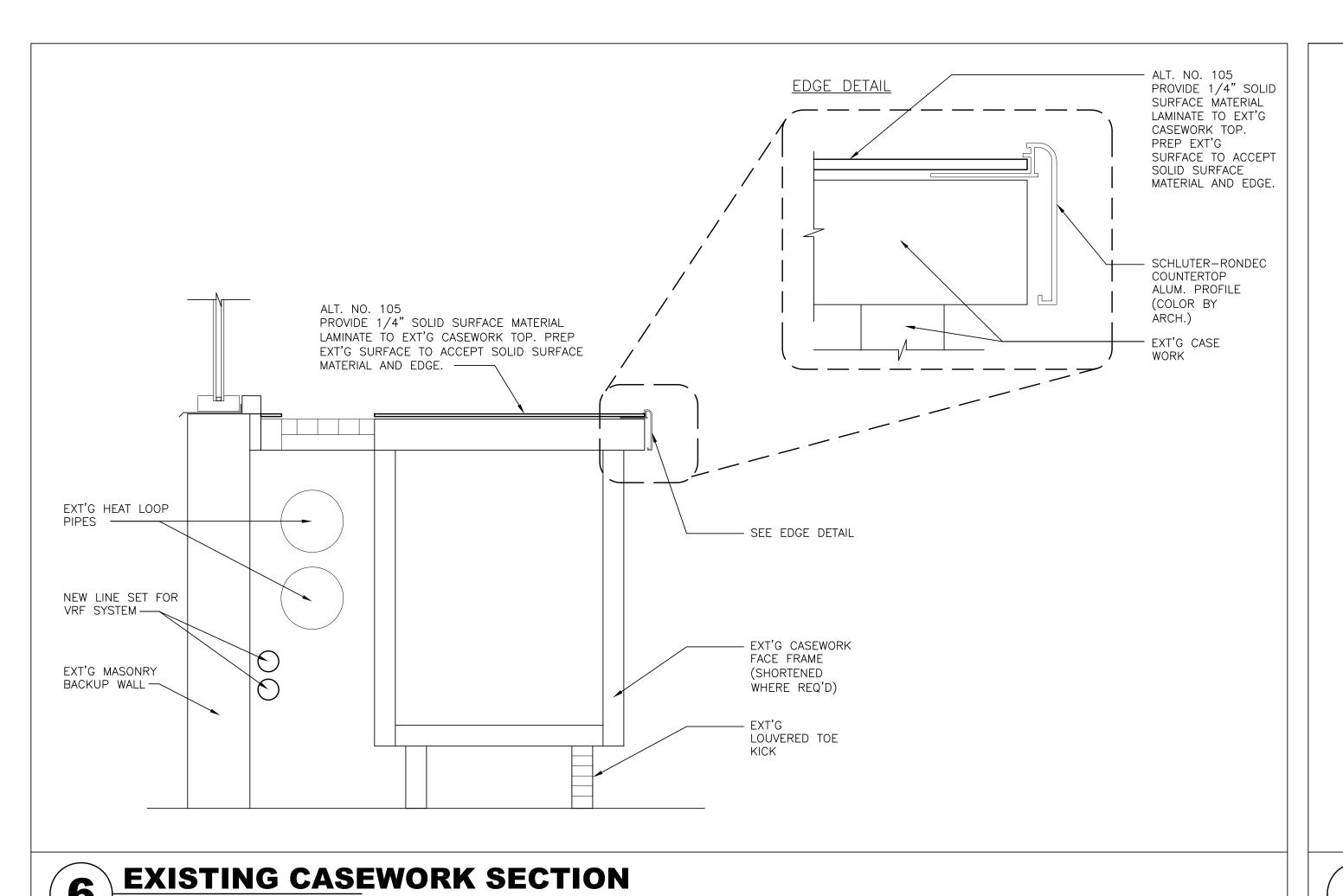


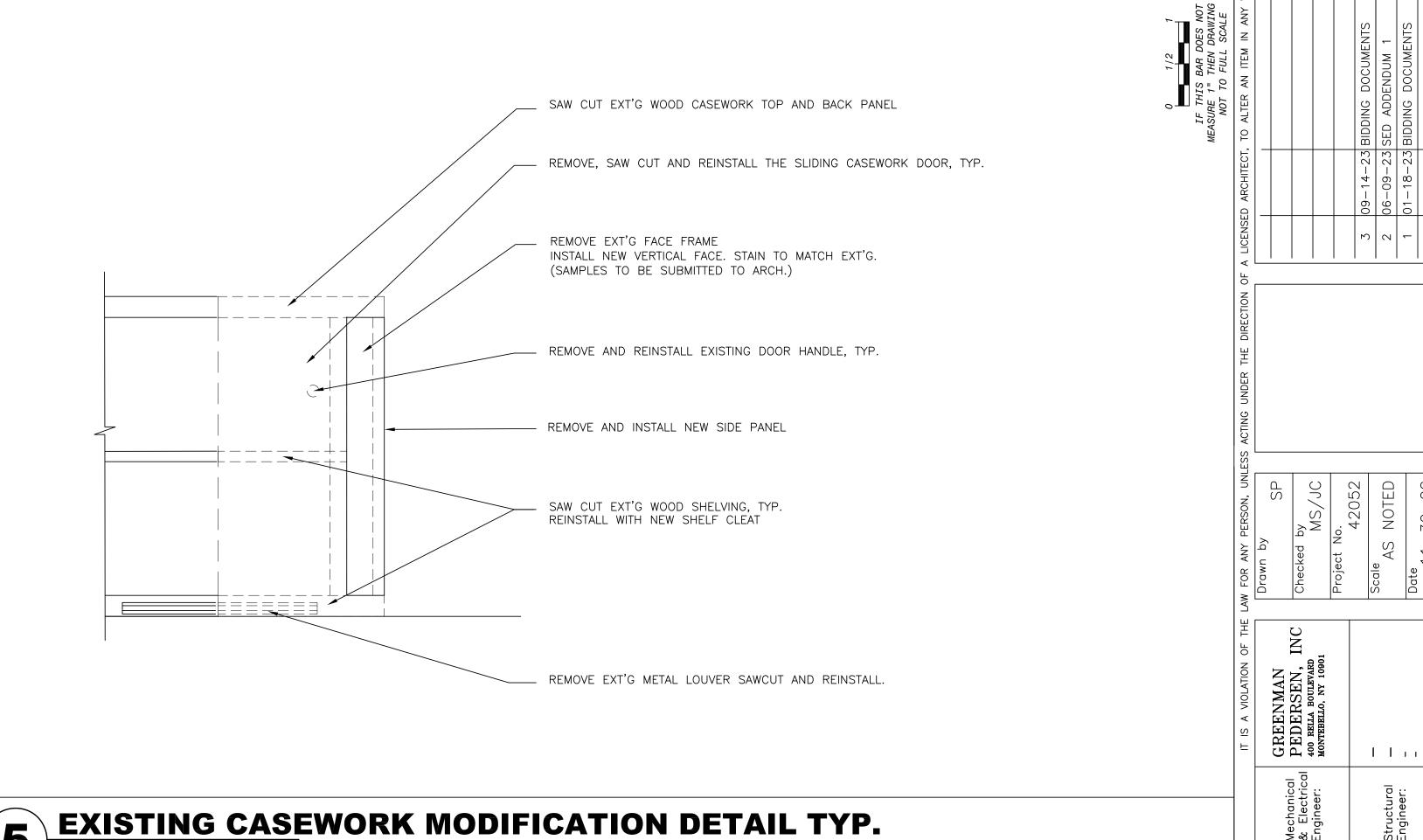
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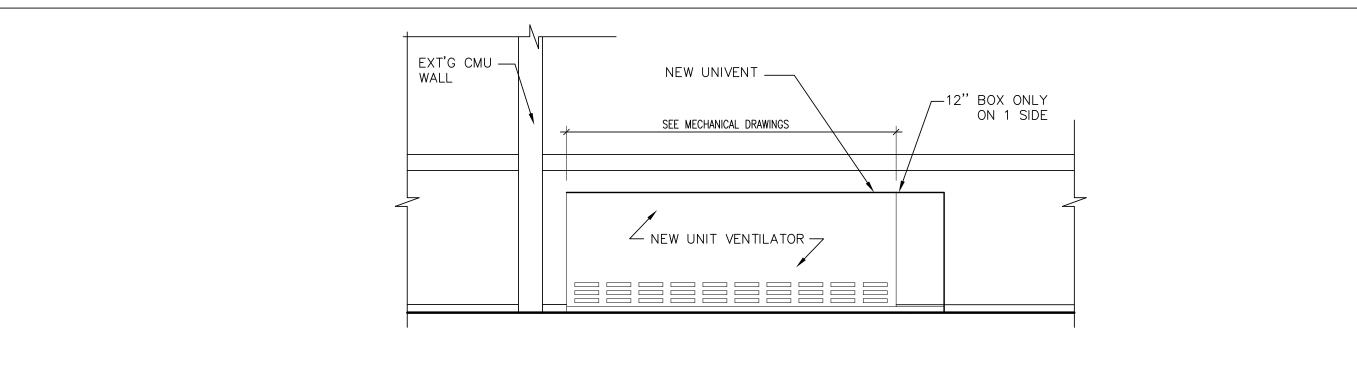


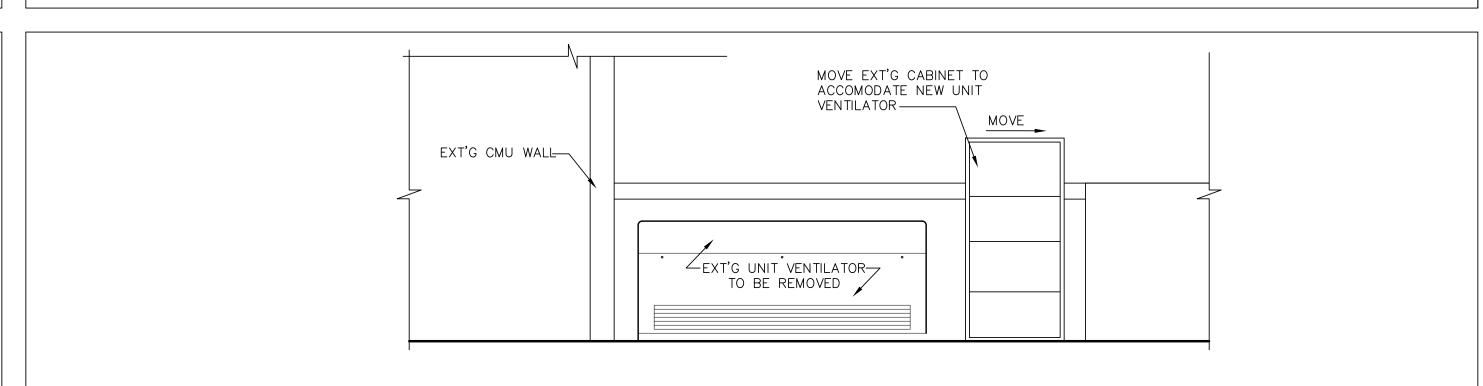
ELEVATIONS >









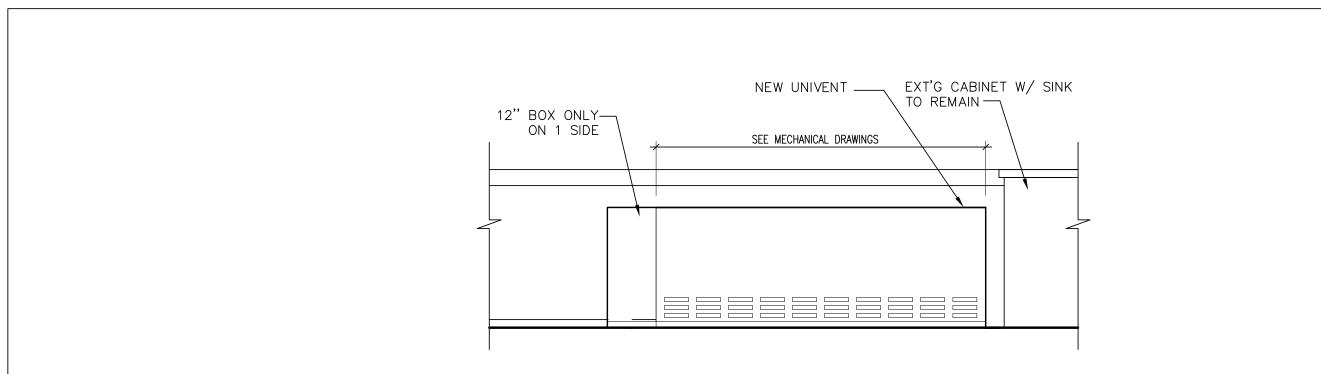


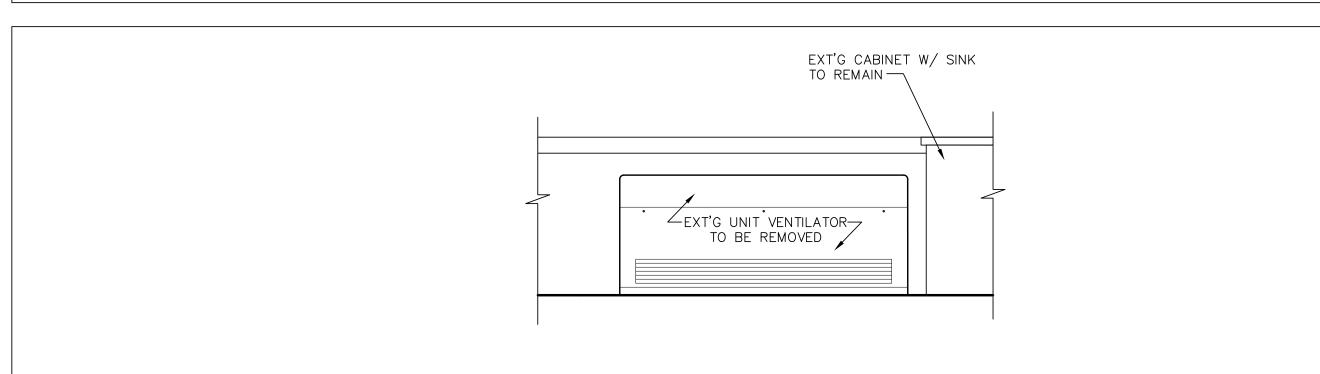
NEW UNIVENT ELEVATION @ RM 212SCALE: 1/2" = 1'-0"

SCALE: 1-1/2" = 1'-0"

2 EXISTING UNIVENT REMOVAL ELEVATION @ RM 212 SCALE: 1/2" = 1'-0"

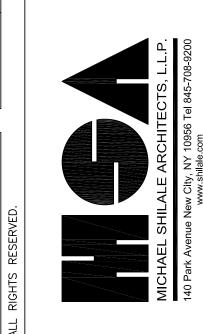
SCALE: 1-1/2" = 1'-0"





3 NEW UNIVENT ELEVATION @ RM 210 SCALE: 1/2" = 1'-0"

1 EXISTING UNIVENT REMOVAL ELEVATION @ RM 210 SCALE: 1/2" = 1'-0"

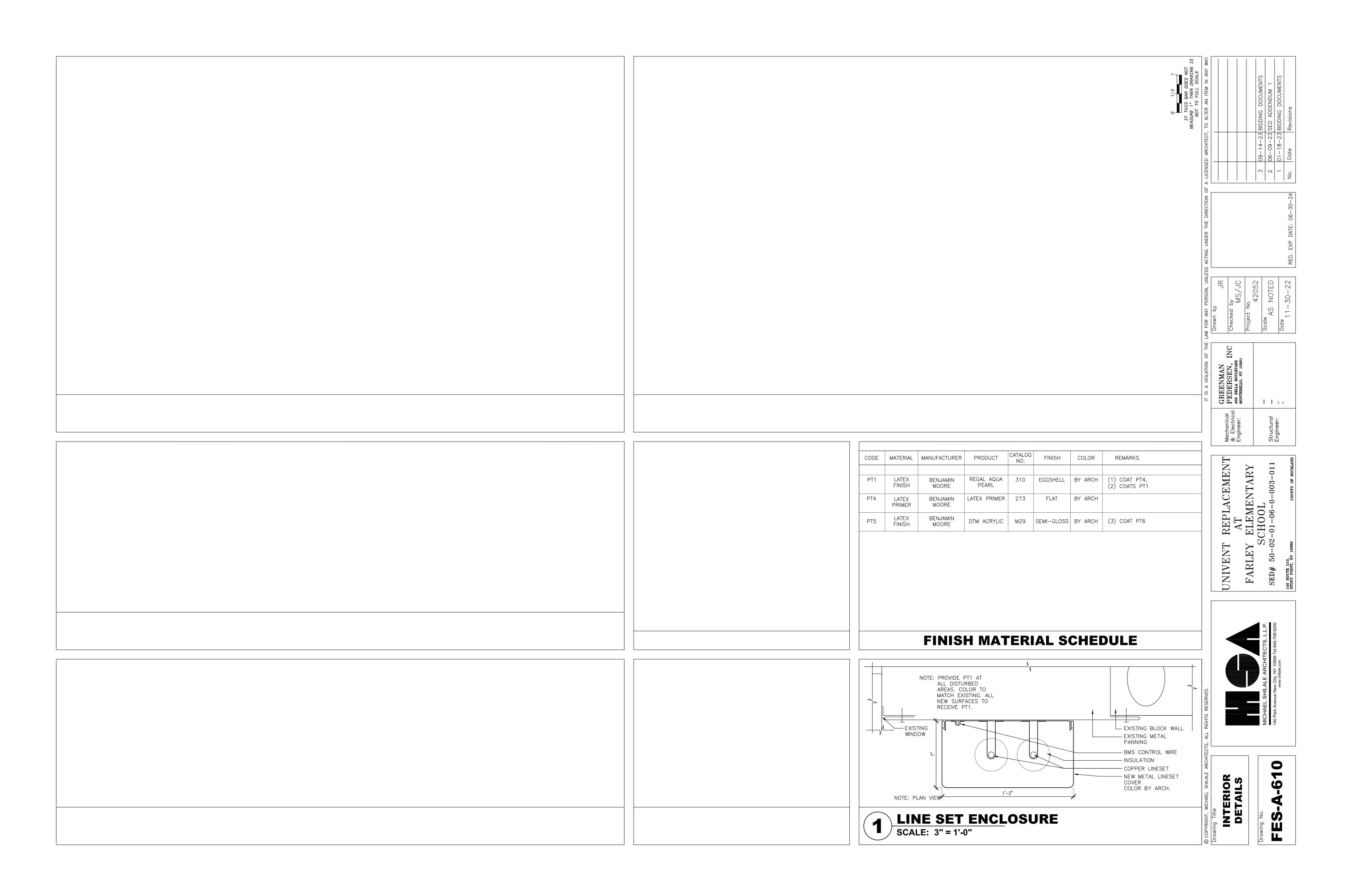


VT REPLACEMEN
AT
SY ELEMENTARY
SCHOOL
-02-01-06-0-003-01

FARLEY

UV ELEVATIONS

Drawing No.



HVAC NOTES:

- . PROVIDE LABOR, MATERIALS, TOOLS, MACHINERY, EQUIPMENT, AND SERVICES NECESSARY TO COMPLETE THE HVAC WORK UNDER THIS CONTRACT. ALL SYSTEMS AND EQUIPMENT SHALL BE COMPLETE IN EVERY ASPECT AND ALL ITEMS OF MATERIAL, EQUIPMENT AND LABOR SHALL BE PROVIDED FOR A FULLY OPERATIONAL SYSTEM AND READY FOR USE. COORDINATE THE WORK WITH THE WORK OF THE OTHER SUBCONTRACTORS IN ORDER TO RESOLVE ALL CONFLICTS WITHOUT IMPEDING THE JOB PROGRESS.
- EXAMINE THE ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS AND OTHER DIVISIONS, AND SECTIONS OF THE SPECIFICATIONS IN ORDER TO DETERMINE THE EXTENT OF THE WORK REQUIRED TO BE COMPLETED UNDER THIS DIVISION. FAILURE TO EXAMINE ALL THE CONTRACT DOCUMENTS FOR THIS PROJECT WILL NOT RELIEVE THIS CONTRACTOR OF HIS RESPONSIBILITIES TO PERFORM THE WORK REQUIRED FOR A COMPLETE FULLY OPERATIONAL AND SATISFACTORY INSTALLATION.
- 3. THE WORK INCLUDES BUT IS NOT LIMITED TO THE DEPICTED SYSTEMS, EQUIPMENT AND SERVICES, AS SPECIFIED HEREIN.
- 4. START-UP SERVICES SHALL BE INCLUDED.
- 5. ALL SYSTEMS, EQUIPMENT AND SERVICES SPECIFIED HEREIN SHALL BE PROVIDED COMPLETE AND READY FOR USE. ALL EQUIPMENT, DUCTWORK, PIPING, DAMPERS, OUTLETS ARE NEW. FURNISHED AND INSTALLED BY THIS CONTRACTOR. UNLESS OTHERWISE NOTED.
- 6. DUCTWORK AND PIPING ARE SHOWN DIAGRAMMATICALLY AND DO NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF DUCTWORK AND PIPING TO AVOID OBSTRUCTIONS. EXACT LOCATIONS ARE SUBJECT TO APPROVAL OF ENGINEER. COORDINATION WITH THE EXISTING SERVICES, INCLUDING THOSE OF OTHER SUBCONTRACTORS IS REQUIRED. PROVIDE COORDINATION DRAWINGS SHOWING ALL TRADES WORK AND EXISTING CONDITION.
- . INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES INVOLVING EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- 8. VERIFY FINAL LOCATIONS FOR ROUGH WORK WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT BEING CONNECTED.
- PROVIDE A COMPLETE SYSTEM OF VIBRATION ISOLATION FOR EACH ITEM OF HVAC EQUIPMENT AND APPARATUS AS SPECIFIED HEREIN, AS SHOWN ON THE DRAWINGS AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.
- THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACE AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER IN THE INTERIOR OR THE EXTERIOR.
- 11. ALL PRESENT MATERIAL, EQUIPMENT AND CONSTRUCTION BECOME THE PROPERTY OF THE CONTRACTOR WITH THE EXCEPTION OF SPECIFIC EQUIPMENT AND APPARATUS REQUESTED BY NYPL, OR AS NOTED TO BE RELOCATED ON THE DRAWINGS, AND SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
- 12. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.
- 13. ALL CONTROL WIRING SHALL BE DONE BY MECHANICAL CONTRACTOR, IN ACCORDANCE WITH SEQUENCE OF OPERATION, AS SPECIFIED, AND IN ACCORDANCE WITH MANUFACTURER'S CONTROL DATA.
- 14. CONTRACTOR IS RESPONSIBLE TO ATTEND COORDINATION MEETING WITH ALL TRADES TO DETERMINE LOCATIONS OF DEVICES AND DISCOVER IF ANY CONFLICTS MAY EXIST.
- 15. ALL PIPING EXPOSED OR INSULATED, DUCTWORK, CONDUIT AND CONTROL WIRING SHALL BE CONCEALED IN CEILINGS, WALLS AND FLOORS OR CONCEALED IN NEW SOFFITS OR FRAMED

GENERAL NOTES

- 1. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND COORDINATE THE WORK WITH OTHER TRADES.
- THE FULL DEMOLITION SCOPE IS NOT SPECIFICALLY SHOWN ON THE DRAWINGS. PROVIDE DEMOLITION WORK CONSIDERED NECESSARY FOR THE COMPLETION OF THE WORK. SURVEY THE PREMISES TO ACCURATELY DETERMINE THE FULL SCOPE OF THE REMOVAL AND DISPOSAL WORK. NO ADDITIONAL PAYMENTS WILL BE MADE DUE TO CONTRACTOR'S FAILURE TO ADEQUATELY SURVEY THE PREMISES.
- 3. CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF EQUIPMENT FROM SITE INDICATED FOR DEMOLITION, UNLESS OTHERWISE DIRECTED BY THE
- THE MECHANICAL CONTRACTOR SHALL PROVIDE POWER SUPPLIES, ELECTRICAL WIRING AND CONDUIT FOR POWER AND CONTROL TO PNEUMATIC OR MOTORIZED DAMPER AND VALVE OPERATORS, THERMOSTATS, AUTOMATIC CONTROL INSTRUMENTATION. COORDINATE WITH THE ELECTRICAL CONTRACTOR TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
- 5. FOR POWERED EQUIPMENT INTENDED FOR DEMOLITION, THE CONTRACTOR SHALL COORDINATE SHUT-OFF POWER SUPPLIES AND DISCONNECT SWITCHES ASSOCIATED WITH THE EQUIPMENT TO BE DISCONNECTED. RECONNECT ELECTRICAL POWER TO NEW EQUIPMENT AFTER INSTALLATION. PROVIDE ELECTRICAL MATERIAL AND LABOR AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
- TEMPORARY SHUTDOWNS OF SERVICE OF EXISTING ELECTRICAL, STEAM, HEATING. AIR CONDITIONING AND VENTILATION SYSTEMS SHALL BE PERFORMED WITH A MINIMUM OF DISRUPTION OF SERVICE, HELD TO AN ABSOLUTE MINIMUM DURATION OF TIME. AND ONLY AFTER HAVING NOTIFIED THE BUILDING OPERATIONS MANAGEMENT AT LEAST TWO WEEKS IN ADVANCE AND HAVING RECEIVED THEIR PERMISSION IN WRITING, AT LEAST TWO WEEKS PRIOR TO THE SCHEDULED SHUTDOWN. COMMUNICATIONS SHALL BE RELAYED THROUGH THE OWNER'S REPRESENTATIVE.
- 7. PROVIDE MOTOR STARTERS AS REQUIRED FOR MECHANICAL EQUIPMENT
- LOAD CALCULATIONS HAVE BEEN PERFORMED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS, SPECIFICALLY ASHRAE HANDBOOK - FUNDAMENTALS.
- CONTRACTOR SHALL PERFORM ALL TESTS AND STARTUP PROCEDURES FOR EACH VENTILATION SYSTEM IN ACCORDANCE WITH THE MANUFACTURER AND SPECIFICATIONS.
- 11. ALL THERMOSTATIC CONTROLS SHALL BE TESTED FOR FUNCTIONALITY AND PROPER OPERATION AS REQUIRED BY NYS ECC.
- 12. ELECTRIC MOTORS SHALL COMPLY WITH THE REQUIREMENTS OF THE ENERGY POLICY ACT OF 1992 AS SHOWN IN ASHRAE 90.1-2013 TABLE #10.8.
- 13. PROVIDE EQUIPMENT MAINTENANCE MANUALS AND REQUIRED EQUIPMENT LABELS FOR ALL NEW MECHANICAL, ELECTRICAL AND SERVICE HOT WATER HEATING EQUIPMENT.
- 14. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO PROVIDE CONTROL WIRING. THE MECHANICAL CONTRACTOR SHALL ALSO PROVIDE ALL POWER SUPPLIES, ELECTRICAL WIRING AND CONDUIT FOR POWER AND CONTROL TO ALL VALVE OPERATORS, THERMOSTATS AND AUTOMATIC CONTROL INSTRUMENTATION. ELECTRICAL CONTRACTOR TO INSTALL AND ROUTE POWER WIRING FOR EACH MECHANICAL SYSTEM.
- MOUNTING HEIGHTS FOR ASSOCIATED MECHANICAL THERMOSTAT CONTROLS, ETC. SHALL MEET THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES. MOUNTING HEIGHTS FOR ALL THERMOSTATS, ETC SHALL BE 48" AFF.
- 16. PATCH AND REPAIR EXISTING VCT FLOORING AT UNIT VENTILATORS TO REPAIR ANY DAMAGE CAUSED BY THE WORK OR AS NECESSARY COMPENSATE FOR ANY DIFFERENCE IN THE SIZE OF THE CASING BETWEEN THE NEW AND EXISTING UNIT VENTILATORS.

MECHANICAL BALANCING NOTE

AT THE PROJECT INCEPTION THE CONTRACTOR SHALL RETAIN THE SERVICES OF A CERTIFIED TESTING AND BALANCING FIRM TO TEST AND DOCUMENT THE FOLLOWING PERFORMANCE DATA OF THE EXISTING EQUIPMENT DESIGNATED TO BE REMOVED. REUSED OR REPLACED AS PART OF THE SCOPE OF THIS PROJECT. THE TESTING AND DOCUMENTATION SHALL INCLUDE AS A MINIMUM:

AIR FLOW PERFORMANCE OF ALL FANS, OUTSIDE, SUPPLY, EXHAUST, RETURN, AIR HANDLERS. INCLUDING SUCTION AND DISCHARGE STATIC PRESSURE AND OPERATING TEMPERATURE DIFFERENCE AIR FLOW PERFORMANCE OF ALL UNIT VENTILATORS, CABINET UNIT HEATERS, FAN COILS, CHILLED AND HIGH TEMPERATURE HOT WATER FLOW AT EACH CHILLER, AIR HANDLER COIL. CABINET UNIT HEATER, CHILLED AND HIGH TEMPERATURE HOT WATER CIRCULATING PUMPS, HEAT EXCHANGERS, INCLUDING WATER SIDE ENTERING AND LEAVING PRESSURE DROP.

ABBREVIATIONS AIR CONDITIONING AIR CHANGES PER HOUR ΑD ACCESS DOOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE

BTU

CAP

CHWR

CONC

COP

CWR

CWS

DEG,

DX

EΑ

EAT

EER

ERV

EWT

EX.

FLA

FPI

FPM

FSD

FTR

GALV

GPD

H2O

HOA

HVAC

FU

DEGREES

DRAWING

EXHAUST AIR

EFFICIENCY

EXISTING

FAHRENHEIT

FIRE ALARM

FAN COIL UNIT

FIRE DAMPER

FLOOR DRAIN

FINISHED FLOOR

FINISHED GRADE

FULL LOAD AMPS

FEET PER MINUTE

FINNED TUBE RADIATOR

FINS PER INCH

FIXTURE UNIT

NATURAL GAS

GALVANIZED

HOUR, HEIGHT

HAND/OFF/AUTO

HORSEPOWER

GALLONS PER DAY

GALLONS PER HOUR

GALLONS PER MINUTE

GAUGE

GALLON

WATER

MERCURY

HEAT PUMP

HOT WATER

HEAD

HOUR

FLEXIBLE CONNECTION

FACH

DIRECT EXPANSION

ENTERING AIR TEMPERATURE

ENERGY RECOVERY VENTILATOR

ENTERING WATER TEMPERATURE

COMBINATION FIRE/SMOKE DAMPER

HEATING, VENTILATION, AND AIR CONDITIONING

EXTERNAL STATIC PRESSURE

ENERGY EFFICIENCY RATIO

CW

CD

AIR-CONDITIONING, HEATING, AND REFRIGERATION AHRI INSTITUTE AIR HANDLING UNIT ANALOG INPUT AMPERE **ANALOG OUTPUT** AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND ASHRAE AIR CONDITIONING ENGINEERS ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS AUX AUXILIARY AVG **AVERAGE** BRAKE HORSEPOWER BOTTOM OF DUCT **BOTTOM OF PIPE**

MBH MCA MCDB **MCWB** BUILDING MANAGEMENT SYSTEM **MERV** BRITISH THERMAL UNIT MHP CONDENSATE LINE MIN CAPACITY MM CONDENSATE DRAIN MOP CUBIC FEET **NPSHA** CUBIC FEET PER MINUTE **NPSHR** CHILLED WATER OAT CHILLED WATER RETURN OC CHILLED WATER SUPPLY OD

CAST IRON, CUBIC INCHES ODP CLEANOUT CONCRETE COEFFICIENT OF PERFORMANCE COLD WATER NIC CONDENSER WATER RETURN CONDENSER WATER SUPPLY NO DRAIN, DEPTH DECIBELS NTS DRY BULB

PUMPED CONDENSATE DECIBELS (A WEIGHTED) PUMP DISCHARGE, PRESSURE DROP DIRECT DIGITAL CONTROL PHASE **PRESS** PRESSURE DIAMETER/ROUND PSIA POUNDS PER SQUARE INCH, ABSOLUTE DIGITAL INPUT PSIG POUNDS PER SQUARE INCH, GAUGE QTY QUANTITY DIGITAL OUTPUT REFRIGERANT DEW POINT RETURN AIR RAT RETURN AIR TEMPERATURE RD

SEER

SENS

SPEC

SZVAV

SQ

SS

TB

TDH

TEFC

TEMP

THK

TOD

TON

TSP

TYP

UH

UON

VAV

VD

VFD

WC

ROOF DRAIN REQD REQUIRED REV REVISION RELATIVE HUMIDITY, RIGHT HAND REFRIGERANT LIQUID RLA **RUNNING LOAD AMPERES** RM RS REFRIGERANT SUCTION RTU ROOFTOP UNIT SECONDS

HOT WATER RETURN

HOT WATER SUPPLY

INTEGRATED ENERGY EFFICIENCY RATIO

INTEGRATED SEASONAL COEFFICIENT OF PERFORMANCE

INTEGRATE SEASONAL MOISTURE REMOVAL EFFICIENCY

INTEGRATED PART LOAD VALUE

LENGTH BY WIDTH BY HEIGHT

LEAVING WATER TEMPERATURE

LEAVING AIR TEMPERATURE

LINEAR EXPANSION VALVE

MIXED AIR TEMPERATURE

MINIMUM CIRCUIT AMPACITY

MEAN COINCIDENT DRY BULB

MEAN COINCIDENT WET BULB

OUTSIDE AIR TEMPERATURE

MOTOR HORSEPOWER

MINIMUM. MINUTE

OUTSIDE DIAMETER

OPEN DRIP-PROOF

NORMALLY CLOSED

NOT IN CONTRACT

NORMALLY OPEN

NOT REQUIRED

NOT TO SCALE

NOT APPLICABLE

NOISE CRITERIA

MILLIMETER

ON CENTER

MINIMUM EFFICIENCY REPORTING VALUE

MAXIMUM OVER-CURRENT PROTECTION

NET POSITIVE SUCTION HEAD (ACTUAL)

NET POSITIVE SUCTION HEAD (REQUIRED)

LOCKED ROTOR AMPS

INSIDE DIAMETER

HERTZ

INCHES

KILOWATTS

LINEAR FEET

LEFT HAND

MAXIMUM

1,000 BTU/H

POUND

HWS

IEER

IPLV

KW

LAT

LB

LEV

LWT

MAT

MAX

LxWxH

ISCOP

HΖ

SUPPLY AIR SUPPLY AIR TEMPERATURE SMOKE DAMPER SEASONAL ENERGY EFFICIENCY RATIO SENSIBLE **SQUARE FEET**

STATIC PRESSURE SPECIFICATION SQUARE STAINLESS STEEL SINGLE ZONE VARIABLE VOLUME TO BOTTOM TOTAL DYNAMIC HEAD TOTALLY ENCLOSED, FAN COOLED **TEMPERATURE**

TOP OF DUCT 12,000 BTU/H COOLING CAPACITY TOTAL STATIC PRESSURE TYPICAL UNIT HEATER UNLESS OTHERWISE NOTED VENT, VOLTS, OR VOLUME

VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VERIFY IN FIELD VARIABLE REFRIGERANT FLOW WATTS, WIDTH WITH WET BULB

WATER COLUMN

HVAC DESIGN CRITERIA

- A. SITE (BASED ON NEAREST AVAILABLE DATA: ASHRAE 2013 HANDBOOK CLIMATIC DESIGN INFORMATION, WESTCHESTER CO, NY): 1. 41.07°N, 73.71°W
- ELEVATION: 397 FT 3. CLIMATE ZONE 5A.
- B. OUTSIDE DESIGN CONDITIONS (BASED ON NEAREST AVAILABLE DATA: ASHRAE 2013 CLIMATIC DESIGN INFORMATION, WESTCHESTER CO, NY): HEATING DB (99.6%): 9.0°F DB

C. INSIDE DESIGN CONDITIONS (PER NYSED

- 2. COOLING DB/MCWB (1%): 86.5°F DB, 72.1°F
- MANUAL OF PLANNING STANDARDS S602-6 B. AND 2015 ASHRAE HANDBOOK CH 7 TABLE 6): 1. HEATING INDOOR SETPOINT: 72°F 2. COOLING INDOOR SETPOINT: 78°F, 60% RH
- D. ACOUSTICS (PER NYSED MANUAL OF PLANNING STANDARDS, TABLE S304-1): 1. DESIGN REQUIREMENTS FOR HVAC SYSTEM NOISE FOR CLASSROOMS, 7-12: RC 25-30.
- E. FILTRATION: MERV 13 (PER NYSED MANUAL OF PLANNING STANDARDS).
- F. DEMAND CONTROLLED VENTILATION NOT REQUIRED PER ECCNYS C403.2.6.1 EXCEPTION

SUMMARY OF WORK:

THE WORK OF THIS PROJECT INCLUDES HVAC UPGRADES AT WILLOW GROVE ELEMENTARY SCHOOL. PROVIDE MATERIALS AND SERVICES AS FOLLOWS. THE FOLLOWING IS NOT INTENDED TO BE A COMPLETE DESCRIPTION OF THE WORK; PERFORM THE WORK AS HEREINAFTER DESCRIBED IN THESE CONTRACT DOCUMENTS.

- REPLACE UNIT VENTILATORS THROUGHOUT THE BUILDING WHERE INDICATED. CONNECT ALL UNIT VENTILATORS TO THE NEW VRF SYSTEM WITH NEWLY INSTALLED REFRIGERANT
- B. PROVIDE FOUR (4) NEW DUCTLESS VRF OUTDOOR CONDENSING
- PROVIDE TWO (2) NEW HEAT PUMP ROOF TOP UNITS TO SUPPLY THE GYMNASIUMS.

SEQUENCE OF OPERATIONS

A. UNIT VENTILATORS:

1. COOLING OCCUPIED MODE: SUPPLY FANS SHALL BE ON, OA DAMPER SHALL BE AT MINIMUM POSITION. AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE.

- 2. COOLING UNOCCUPIED MODE: THE UNIT SHALL BE OFF AND THE OA DAMPER SHALL BE CLOSED.
- HEATING OCCUPIED MODE: SUPPLY FANS SHALL BE ON, OA DAMPER SHALL BE AT MINIMUM POSITION, THE CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE
- 4. HEATING UNOCCUPIED MODE: THE OA DAMPER SHALL BE CLOSED AND THE CONTROL VALVE SHALL BE WIDE OPEN. THE SUPPLY FANS AND CONTROL VALVE SHALL CYCLE TO MAINTAIN SPACE TEMPERATURE AT THE NIGHT SETBACK VALUE.
- 5. ECONOMIZER MODE: THE OA DAMPER SHALL MODULATE FROM MINIMUM TO MAXIMUM POSITIONS BASED ON A FIXED DRY-BULB TEMPERATURE. THE CONTROL VALVE SHALL BE CLOSED. 6. AUTOMATIC FAN SPEED ADJUSTMENT (LOW ACOUSTIC OPTION): THE SUPPLY FANS SHALL BE DRIVEN BY ELECTRONICALLY
- COMMUTATED MOTORS (ECM) WHICH SHALL REDUCE THE FAN SPEED AT PART LOAD CONDITIONS TO REDUCE NOISE. THE OA DAMPER SHALL ALSO ADJUST ITS MINIMUM POSITION TO ENSURE ADEQUATE VENTILATION.
- 7. MORNING WARM-UP/COOL-DOWN: THE UNIT SHALL AUTOMATICALLY WARM-UP/COOL-DOWN THE SPACE PRIOR TO OCCUPANCY BASED ON THE PROGRAMMABLE SCHEDULE.
- 8. BUILDING MANAGEMENT SYSTEM (BMS): EACH UNIT VENTILATOR INCLUDING DAMPER, CONTROL VALVES, THERMOSTATS, AND APPURTENANCES SHALL BE INTEGRATED WITH THE EXISTING SIEMENS BMS.

SYMBOLS:

CENTER LINE DEMOLITION AND REMOVAL *-////////* EXISTING TO REMAIN NEW PIPE, DUCTWORK OR EQUIPMENT PIPE DROPPING DOWN - PIPE RISING UP AIR VENT AUTOMATIC FLOW CONTROL VALVE BALL VALVE **BUTTERFLY VALVE** CHECK VALVE CONCENTRIC REDUCER OR INCREASER Ĭ ECCENTRIC REDUCER OR INCREASER FLEXIBLE CONNECTOR FLOW IN DIRECTION OF ARROW \bowtie GATE VALVE \bowtie GLOBE VALVE $\vdash \nabla \nabla \vdash$ MODULATING CONTROL VALVE PRESSURE GAUGE WITH NEEDLE VALVE COCK PRESSURE REDUCING VALVE PRESSURE RELIEF VALVE STRAINER **THERMOMETER** TRIPLE DUTY VALVE UNION \vdash

> DISCONNECT POINT TIE-IN POINT

——CHWS—— CHILLED WATER SUPPLY (CHWS) ——CHWR—— CHILLED WATER RETURN (CHWR) ——CWR—— CONDENSER WATER RETURN

——CWS—— CONDENSER WATER SUPPLY ----HWR----- HOT WATER RETURN ——HWS—— HOT WATER SUPPLY REFRIGERANT

_____D____ DRAIN ——MU—— MAKE-UP WATER

TEMPERATURE SENSOR/THERMOSTAT

HUMIDITY SENSOR VOLUME DAMPER

SUPPLY DIFFUSER

RETURN OR EXHAUST GRILLE

DEMOLISH SECTION A-A



Checked by	
PΛ	
Project No.	
42052	
Scale	
AS NOTED	
Date	

GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10801	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOLLEVARD SUITE 202 SUFFERN, NY 10901
Mechanical & Electrical Engineer:	Structural Engineer:

UNIVENT FPLACEMENT FARLEY ELEMENTAR 50-&CHQ&L0 REPL



					MECH	ANICAL VENTILATION	SCHEDULE											
ROOM	OCCUPANYCLASSIFICATION	FLOOR AREA (FT^2)	ROOM VOLUME (FT^3)	OCCUPANT LOAD (OCCUPANT/1,000 FT^2)	# OF OCCUPANTS	REQUIRED CFM/OCCUPANT	REQUIRED CFM/FT^2	BREATHING ZONE OUTDOOR AIRFLOW (CFM)		TRIBUTION IVENESS	TOTAL OUTDO REQUIRE	OR AIR	OUTDOOF	L ROOM R AIRFLOW (CFM)	TOTAL S AIRFLOV		AIR CHAN (AC	
		co		COOLING	HEATING	COOLING	HEATING	COOLING	HEATING	COOLING	HEATING	COOLING	HEATING					
BAND ROOM 101	MUSIC/THEATER/DANCE	1102	12122	35	39	10	0.06	452	0.9	0.9	502	502	505	505	1500	1500	7.4	7.4
CHORUS 103	MUSIC/THEATER/DANCE	947	10417	35	33	10	0.06	388	0.9	0.9	431	431	435	435	1250	1250	7.2	7.2
WEIGHT ROOM 105	WEIGHT ROOM	388	4268	10	4	20	0.06	101	0.9	0.9	112	112	115	115	750	750	10.5	10.5
OFFICE 106	OFFICE SPACES	347	3817	5	2	5	0.06	29	0.9	0.9	33	33	35	35	750	750	11.8	11.8
SHOP 107	WOOD/METAL SHOPS	1790	19690	20	36	10	0.18	680	0.9	0.9	756	756	760	760	2500	2500	7.6	7.6
SHOP 108	WOOD/METAL SHOPS	1786	19646	20	36	10	0.18	679	0.9	0.9	754	754	755	755	2500	2500	7.6	7.6
CLASSROOM 112	CLASSROOMS (AGE 9 PLUS)	833	9163	35	29	10	0.12	392	0.9	0.9	435	435	440	440	1250	1250	8.2	8.2
CLASSROOM 113	CLASSROOMS (AGE 9 PLUS)	837	9207	35	29	10	0.12	393	0.9	0.9	437	437	440	440	1500	1500	9.8	9.8
RES 114	CLASSROOMS (AGE 9 PLUS)	833	9163	35	29	10	0.12	392	0.9	0.9	435	435	440	440	1250	1250	8.2	8.2
CLASSROOM 115	CLASSROOMS (AGE 9 PLUS)	858	9438	35	30	10	0.12	403	0.9	0.9	448	448	450	450	1500	1500	9.5	9.5
SPECIAL ED 116 CLASSROOM 117	CLASSROOMS (AGE 9 PLUS)	835 845	9185 9295	<u>35</u> 35	30	10 10	0.12 0.12	392 397	0.9	0.9	436 441	436 441	440 445	440 445	1250 1500	1250 1500	8.2 9.7	8.2
SPECIAL ED 118	CLASSROOMS (AGE 9 PLUS) CLASSROOMS (AGE 9 PLUS)	840	9295		29	10	0.12	395	0.9	0.9	439	439	440	440	1250	1250	<u>9.7</u> 8.1	8.1
OFFICE 121	OFFICE SPACES	504	5544	5	3	5	0.06	43	0.9	0.9	48	48	50	50	750	750	8.1	8.1
NURSE 122	OFFICE SPACES	584	6424	5	3	<u>5</u>	0.06	50	0.9	0.9	55	55	60	60	1000	1000	9.3	9.3
LOUNGE 123	OFFICE SPACES	806	8866	5	4	5	0.06	69	0.9	0.9	76	76	80	80	750	750	5.1	5.1
CLASSROM 124	CLASSROOMS (AGE 9 PLUS)	579	6369	35	20	10	0.12	272	0.9	0.9	302	302	305	305	750	750	7.1	7.1
CLASSROOM 125	CLASSROOMS (AGE 9 PLUS)	807	8877	35	28	10	0.12	379	0.9	0.9	421	421	425	425	1250	1250	8.4	8.4
CLASSROOM 127	CLASSROOMS (AGE 9 PLUS)	783	8613	35	27	10	0.12	368	0.9	0.9	409	409	410	410	1250	1250	8.7	8.7
CLASSROOM 129	CLASSROOMS (AGE 9 PLUS)	812	8932	35	28	10	0.12	382	0.9	0.9	424	424	425	425	1250	1250	8.4	8.4
CLASSROOM 130	CLASSROOMS (AGE 9 PLUS)	811	8921	35	28	10	0.12	381	0.9	0.9	424	424	425	425	1250	1250	8.4	8.4
CLASSROOM 132	CLASSROOMS (AGE 9 PLUS)	812	8932	35	28	10	0.12	382	0.9	0.9	424	424	425	425	1250	1250	8.4	8.4
CLASSROOM 133	CLASSROOMS (AGE 9 PLUS)	815	8965	35	29	10	0.12	383	0.9	0.9	426	426	430	430	1500	1500	10.0	10.0
CLASSROOM 134	CLASSROOMS (AGE 9 PLUS)	812	8932	35	28	10	0.12	382	0.9	0.9	424	424	425	425	1250	1250	8.4	8.4
CLASSROOM 135	CLASSROOMS (AGE 9 PLUS)	815	8965	35	29	10	0.12	383	0.9	0.9	426	426	430	430	1500	1500	10.0	10.0
CLASSROOM 136 CLASSROOM 137	CLASSROOMS (AGE 9 PLUS) CLASSROOMS (AGE 9 PLUS)	812 815	8932 8965	35 35	28 29	10 10	0.12 0.12	382 383	0.9	0.9	424 426	424 426	425 430	425 430	1000 1500	1000 1500	6.7 10.0	6.7
ART ROOM 138	CLASSROOMS (AGE 9 PLUS)	482	5302	35	17	10	0.12	227	0.9	0.9	252	252	255	255	1000	1000	11.3	11.3
STORAGE 138A	CLASSROOMS (AGE 9 PLUS)	512	5632	35	18	10	0.12	241	0.9	0.9	267	267	270	270	750	750	8.0	8.0
ART ROOM 139	CLASSROOMS (AGE 9 PLUS)	892	9812	35	31	10	0.12	419	0.9	0.9	466	466	470	470	1250	1250	7.6	7.6
ART ROOM 140	CLASSROOMS (AGE 9 PLUS)	846	9306	35	30	10	0.12	398	0.9	0.9	442	442	445	445	1000	1000	6.4	6.4
CLASSROOM 141	CLASSROOMS (AGE 9 PLUS)	830	9130	35	29	10	0.12	390	0.9	0.9	433	433	435	435	1000	1000	6.6	6.6
SCIENCE 142	CLASSROOMS (AGE 9 PLUS)	894	9834	35	31	10	0.12	420	0.9	0.9	467	467	470	470	1250	1250	7.6	7.6
SCIENCE 144	CLASSROOMS (AGE 9 PLUS)	785	8635	35	27	10	0.12	369	0.9	0.9	410	410	410	410	1000	1000	6.9	6.9
LIBRARY 145	LIBRARIES	1948	21428	10	19	5	0.12	331	0.9	0.9	368	368	370	370	1500	1500	4.2	4.2
HOME EC 146	CLASSROOMS (AGE 9 PLUS)	786	8646	35	28	10	0.12	369	0.9	0.9	410	410	415	415	1250	1250	8.7	8.7
CLASSROOM 148	CLASSROOMS (AGE 9 PLUS)	552	6072	35	19	10	0.12	259	0.9	0.9	288	288	290	290	1000	1000	9.9	9.9
HOME EC 150	CLASSROOMS (AGE 9 PLUS)	797	8767	35	28	10	0.12	375	0.9	0.9	416	416	420	420	1000	1000	6.8	6.8
CLASSROOM 151	CLASSROOMS (AGE 9 PLUS)	566	6226 2585	35	20	10	0.12 0.06	266	0.9	0.9	296	296	300	300	1000	1000	9.6	9.6
OFFICE 152 WORK ROOM 153	OFFICE SPACES	235	5665	5 35	18	<u> </u>	0.06	20 242	0.9	0.9	22 269	22	25 270	25 270	750 750	750 750	17.4 7.9	17.4
CLASSROOM 154	CLASSROOMS (AGE 9 PLUS) CLASSROOMS (AGE 9 PLUS)	515 623	6853	35 35	22	10	0.12	293	0.9	0.9	325	269 325	330	330	1000	1000	8.8	8.8
CLASSROOM 202	CLASSROOMS (AGE 9 PLUS)	827	9097	35	29	10	0.12	389	0.9	0.9	432	432	435	435	1250	1250	8.2	8.2
CLASSROOM 203	CLASSROOMS (AGE 9 PLUS)	789	8679	35	28	10	0.12	371	0.9	0.9	412	412	415	415	1500	1500	10.4	10.4
COMPUTER ROOM 204	COMPUTER LAB	791	8701	25	20	10	0.12	293	0.9	0.9	325	325	330	330	750	750	5.2	5.2
OFFICE 205	OFFICE SPACES	289	3179	5	1	5	0.06	25	0.9	0.9	27	27	30	30	750	750	14.2	14.2
COMPUTER ROOM 206	COMPUTER LAB	791	8701	25	20	10	0.12	293	0.9	0.9	325	325	330	330	750	750	5.2	5.2
CLASSROOM 207	CLASSROOMS (AGE 9 PLUS)	783	8613	35	27	10	0.12	368	0.9	0.9	409	409	410	410	1500	1500	10.4	10.4
BIOLOGY 208	CLASSROOMS (AGE 9 PLUS)	930	10230	35	33	10	0.12	437	0.9	0.9	486	486	490	490	1500	1500	8.8	8.8
CLASSROOM 209	CLASSROOMS (AGE 9 PLUS)	792	8712	35	28	10	0.12	372	0.9	0.9	414	414	415	415	1500	1500	10.3	10.3
GENERAL SCIENCE 210	CLASSROOMS (AGE 9 PLUS)	802	8822	35	28	10	0.12	377	0.9	0.9	419	419	420	420	1000	1000	6.8	6.8
CLASSROOM 211	CLASSROOMS (AGE 9 PLUS)	783	8613	35	27	10	0.12	368	0.9	0.9	409	409	410	410	1500	1500	10.4	10.4
GENERAL SCIENCE 212	CLASSROOMS (AGE 9 PLUS)	929	10219	35	33	10	0.12	437	0.9	0.9	485	485	490	490	1250	1250	7.3	/.3
CLASSROOM 213	CLASSROOMS (AGE 9 PLUS)	798	8778	35	28	10	0.12	375	0.9	0.9	417	417	420	420	1500 7050	1500 7050	10.3	7.3
GYMNASIUM 160	GYM, STADIUM, ARENA (PLAYAREA)	7283	80113	/	51	20	0.18	2331	0.8	8.0	2913	2913	2915	2915	7050	7050	5.3	10.3

																GYMN	IUISAI	M RO	OF TO	P HE	AT PL	JMP I	UNITS	3													
								CAP	ACITY								AIRFL	.OW					COOLIN	IG		HEA	ATING	ELE RESISTAN	CTRIC CE HEATING		FILTER		WEIGHT (WITHOUT CURB)	-	ELE	CTRICAL	
UNIT#	AREA SERVED	NOMINAI CAPACIT (TONS)	L Y REF	FRIG- ANT	TOTAL COOLIN CAPACIT (MBH)	G HE	EATING PACITY	BACKUP ELECTRIC HEATING CAPACIT (KW)	3	MINIMUM ISMRE (DEHUM- DIFICATION MODE)	MINIMUN SEER	/ MININ	MUM E:R (°F	DENSER EAT DB)	SPEED CONTROL	TOTAL SUPPLY AIRFLOW (CFM)	MIN. OUTSIDE AIR (CFM)	ESP (IN WC)	EXHAUST AIR (CFM)	ESP	EAT (°F DB)	EAT (°F WB)	LAT (°F DB)	LAT (°F WB)	MAX. FACE VELOCITY (FPM)	EAT (°F DB)	LAT (°F DB		CAPACITY (KW)	SUPPLY PRE- FILTER MERV	SUPPLY FINAL FILTER MERV	RETURN FILTER MERV	LBS	MCA	MAX FUS SIZE	E VOLT/PH/HZ	BASIS OF DESIGN
RTU-1	GYMNASIUM	12	R-4	410A	132.1	1	166.0	60		5.2	10.4	11	.4	95	CONSTANT	3525	1460	1.5	1460	1.5	78.0	67.0	55.0	55.0	500	46.2	90.0	166000	60	8	13	8	3231	63.3	80	208/3/60	TRANE HORIZON (OAD/N REV6 - OADG/OANG)
RTU-2	GYMNASIUM	12	R-4	410A	132.1		166.0	60		5.2	10.4	11	.4	95	CONSTANT	3525	1460	1.5	1460	1.5	78.0	67.0	56.0	56.0	500	46.2	90.0	166000	60	8	13	8	3231	63.3	80	208/3/60	TRANE HORIZON (OAD/N REV6 - OADG/OANG)

DEDICATED OUTSIDE AIR SYSTEM SCHEDULE NOTES:

1. PROVIDE A DISCONNECT SWITCH AND POWERED CONVENIENCE OUTLET WITH SINGLE POINT POWER CONNECTION.

2. PROVIDE A FULLY PROGRAMMABLE CONTROLLER WITH GRAPHICAL USER INTERFACE.

3. PROVIDE HOT GAS REHEAT.

4. PROVIDE VIBRATION ISOLATORS AND POSITIVELY FASTEN UNIT TO DUNNAGE PER DETAIL 9/M501.

5. PROVIDE ENERGY RECOVERY WHEEL.
6. PROVIDE HEAT PUMP HEATING WITH ELECTRIC RESISTANCE BACKUP HEAT. SIZE THE ELECTRIC HEAT ASSUMING AN ENERGY WHEEL EFFICIENCY OF 50%.

Drawing Title
MECHANICAL
SCHEDULES -

UNIT VENTILATOR SCHEDULE NOTES:

 PROVIDE WITH CONDENSATE PUMP.
 ELECTRICAL CONTRACTOR TO PROVIDE ALL UNIT VENTILATORS WITH FACTORY MADE DISCONNECT SWITCH.

											UNIT	VENTIL	ATOR SC	HEDU	LE												
L				T0T41	MINIMUM AIRF					COOL	ING				HEATING				FILTER	E	ELECTRIC	CAL	UNIT WEIGHT		UNIT DEPTH	BASIS OF DESIGN	NOTES
UNIT TAG	ASSOCI- ATED	LOCATION	CONFIGURATION	TOTAL SUPPLY	7		MAXIMUM OUTSIDE					MIN	REQUIRED	HEAT	PUMP	НС	T WATE	R					LBS	UNIT DIMENSIONS	(IN)	<i>B</i> 201014	
UNII TAG	OUTDOO R UNIT	LOCATION	CONFIGURATION	AIRFLOW (CFM)	COOLING	HEATING	AIRFLOW (CFM)	EADB	EAWB	LADB	LAWB	TOTAL	TOTAL	EADB	LADB	EWT	LWT	0014	MERV	MCA	MAX FUSE	V/PH/HZ		(LxH, IN) (V.I.F.)		MODEL NUMBER	₹
	IX OIVIII			(OI WI)			(OI W)	(°F)	(°F)	(°F)	(°F)	CAPACITY (BTU/H)	CAPACITY (BTU/H)	(°F)	(°F)	(°F)	(°F)	GPM			SIZE						
UV-141	HP-1	RM 141	VERTICAL	750	435	435	750	82.9	67.0	55	54	22,300	44,200	35.5	90	140		4.42	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	
UV-142 UV-144	HP-1 HP-1	RM 142 RM 144	VERTICAL VERTICAL	1000 750	470 410	470 410	1000 750	82.0 82.6	67.0 67.0	55 55	54 54	29,700 22,300	51,400 42,500	42.4 37.6	90 90	140 140		5.14 4.25	13 13	4.38 4.38	16 16	115/1/60 115/1/60	405 320	81x30 69x30	21.25	TRANE VUVE100 TRANE VUVE075	
UV-145A	HP-1	RM 145	VERTICAL	1000	185	185	1000	79.6	67.0	55	54	29,700	32,000	60.3	90	140	120	3.2	13	4.38	16	115/1/60	405	81x30	21.25	TRANE VUVE100)
UV-145B UV-146	HP-1 HP-1	RM 145 RM 146	VERTICAL VERTICAL	1000 750	185 415	185 415	1000 750	79.6 82.7	67.0 67.0	55 55	54 54	29,700 22,300	32,000 42,800	60.3 37.1	90 90	140 140	120 120	3.2 4.28	13 13	4.38 4.38	16 16	115/1/60 115/1/60	405 320	81x30 69x30	21.25	TRANE VUVE100 TRANE VUVE075	
UV-148	HP-1	RM 148	VERTICAL	750	290	290	750	81.3	67.0	55	54	22,300	34,300	47.6	90	140		3.43	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	
UV-150 UV-151	HP-1 HP-1	RM 150 RM 151	VERTICAL VERTICAL	750 750	420 300	300 300	750 750	82.8 81.4	67.0 67.0	55 55	54 54	22,300 22,300	43,200 35,000	36.7 46.8	90 90	140 140	120 120	4.32 3.5	13 13	4.38 4.38	16 16	115/1/60 115/1/60	320 320	69x30 69x30	21.25	TRANE VUVE075 TRANE VUVE075	
UV-152	HP-1	RM 152	VERTICAL	750	50	50	750	78.6	67.0	55	54	22,300	18,000	67.8	90	140	120	1.8	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	
UV-153 UV-154A	HP-1 HP-1	RM 153 RM 154	VERTICAL VERTICAL	750 750	270 165	270 165	750 750	81.1 79.9	67.0 67.0	55 55	54 54	22,300 22,300	33,000 25,800	49.3 58.1	90 90	140 140	120 120	3.3 2.58	13 13	4.38 4.38	16 16	115/1/60 115/1/60	320 320	69x30 69x30	21.25	TRANE VUVE075 TRANE VUVE075	
UV-154B	HP-1	RM 154	VERTICAL	750	165	165	750	79.9	67.0	55	54	22,300	25,800	58.1	90	140		2.58	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	
UV-158 UV-123	HP-1 HP-2	RM 158 RM 123	HORIZONTAL VERTICAL	1250 750	450 80	450 80	1250 750	81.1 78.9	67.0 67.0	55 55	54 54	37,100 22,300	54,900 20,000	49.3 65.3	90 90	140 140	120 120	5.49	13 13	12 4.38	16 16	115/1/60 115/1/60	435 320	94.25x38 69x30	21.25	TRANE HUVC125 TRANE VUVE075	
UV-124	HP-2	RM 124	VERTICAL	750	305	305	750	81.5	67.0	55	54	22,300	35,300	46.4	90	140		3.53	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	
UV-125 UV-127	HP-2 HP-2	RM 125 RM 127	VERTICAL VERTICAL	750 750	425 410	425 410	750 750	82.8 82.6	67.0 67.0	55 55	54 54	22,300 22,300	43,500 42,500	36.3 37.6	90 90	140 140	 	4.35 4.25	13 13	4.38 4.38	16 16	115/1/60 115/1/60	320 320	69x30 69x30	21.25	TRANE VUVE075 TRANE VUVE075	
UV-129	HP-2	RM 129	VERTICAL	750	425	425	750	82.8	67.0	55	54	22,300	43,500	36.3	90	140	.	4.35	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	
UV-130 UV-132	HP-2 HP-2	RM 130 RM 132	VERTICAL VERTICAL	750 750	425 425	425 425	750 750	82.8 82.8	67.0 67.0	55 55	54 54	22,300 22,300	43,500 43,500	36.3 36.3	90 90	140 140	 	4.35 4.35	13 13	4.38 4.38	16 16	115/1/60 115/1/60	320 320	69x30 69x30	21.25	TRANE VUVE075 TRANE VUVE075	
UV-133	HP-2	RM 133	VERTICAL	750	430	430	750	82.9	67.0	55	54	22,300	43,800	35.9	90	140	 	4.38	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	
UV-134	HP-2 HP-2	RM 134 RM 135	VERTICAL VERTICAL	750 750	425	425	750 750	82.8 82.9	67.0 67.0	55 55	54 54	22,300 22,300	43,500 43,800	36.3 35.9	90	140 140	-	4.35	13	4.38	16	115/1/60	320	69x30 69x30	21.25	TRANE VUVE075 TRANE VUVE075	
UV-135 UV-136	HP-2	RM 136	VERTICAL	750 750	430 425	430 425	750	82.8	67.0	55 55	54	22,300	43,500	36.3	90 90	140	ł – – – ł	4.38 4.35	13 13	4.38 4.38	16 16	115/1/60 115/1/60	320 320	69x30	21.25	TRANE VUVE075	
UV-137	HP-2 HP-2	RM 137	VERTICAL VERTICAL	750 750	430	430	750 750	82.9	67.0 67.0	55 55	54	22,300	43,800	35.9	90	140		4.38	13	4.38	16 16	115/1/60	320	69x30 69x30	21.25	TRANE VUVE075 TRANE VUVE075	
UV-138A UV-138B	HP-2	RM 138A RM 138B	HORIZONTAL	750 750	255 270	255 270	750 750	80.9 81.1	67.0	55 55	54 54	22,300 22,300	31,900 33,000	50.6 49.3	90 90	140 140	120 120	3.19	13 13	4.38 12	16 16	115/1/60 115/1/60	320 340	70.25x36	21.25	TRANE HUVC075	
UV-139	HP-2 HP-2	RM 139	VERTICAL VERTICAL	1000	470	470	1000	82.0 83.0	67.0 67.0	55 55	54 54	29,700	51,400	42.4	90	140	-	5.14	13	4.38	16 16	115/1/60	405	81x30 69x30	21.25	TRANE VUVE100	
UV-140 UV-159	HP-2	RM 140 RM 159	HORIZONTAL	750 1250	445 400	445	750 1250	80.7	67.0	55 55	54	22,300 37,100	44,900 51,500	34.6 51.8	90 90	140 140	 	4.49 5.15	13 13	4.38 12	16 16	115/1/60 115/1/60	320 435	94.25x38	21.25	TRANE VUVE075 TRANE HUVC125	
UV-101A UV-101B	HP-3 HP-3	RM 101 RM 101	VERTICAL VERTICAL	750 750	255	255 255	750 750	80.9 80.9	67.0 67.0	55 55	54 54	22,300 22,300	31,900 31,900	50.6 50.6	90	140	.	3.19	13	4.38	16 16	115/1/60	320 320	69x30 69x30	21.25 21.25	TRANE VUVE075 TRANE VUVE075	
UV-101B	HP-3	RM 103	VERTICAL	1000	255 435	435	1000	81.7	67.0	55	54	29,700	49,000	44.6	90 90	140 140	120 120	3.19 4.9	13 13	4.38 4.38	16	115/1/60 115/1/60	405	81x30	21.25	TRANE VUVE100	
UV-105 UV-106	HP-3 HP-3	RM 105 RM 106	VERTICAL VERTICAL	750 750	115 40	115 40	750 750	79.3 78.5	67.0 67.0	55 55	54 54	22,300 22,300	22,400 17,300	62.3 68.6	90 90	140 140	120 120	2.24 1.73	13 13	4.38 4.38	16 16	115/1/60 115/1/60	320 320	69x30 69x30	21.25	TRANE VUVE075 TRANE VUVE075	
UV-107	HP-3	RM 107	HORIZONTAL	2000	760	760	2000	81.2	67.0	55	54	59,400	90,600	48.1	90	140	-	9.06	13	12	16	115/1/60	600	106.25x43	21.25	TRANE HUVC200	
UV-108 UV-111	HP-3 HP-3	RM 108 RM 111	HORIZONTAL HORIZONTAL	2000 750	755 250	755 250	2000 750	81.2 80.8	67.0 67.0	55 55	54 54	59,400 22,300	90,300 31,600	48.2 51.0	90 90	140 140	 	9.03 3.16	13 13	12 12	16 16	115/1/60 115/1/60	600 340	106.25x43 70.25x36	21.25	TRANE HUVC200 TRANE HUVC075	
UV-112	HP-3	RM 112	VERTICAL	750	440	440	750	83.0	67.0	55	54	22,300	44,500	35.0	90	140		4.45	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	
UV-113 UV-114	HP-3 HP-3	RM 113 RM 114	VERTICAL VERTICAL	750 750	440 440	440 440	750 750	83.0 83.0	67.0 67.0	55 55	54 54	22,300 22,300	44,500 44,500	35.0 35.0	90 90	140 140		4.45 4.45	13 13	4.38 4.38	16 16	115/1/60 115/1/60	320 320	69x30 69x30	21.25	TRANE VUVE075 TRANE VUVE075	
UV-115	HP-3	RM 115	VERTICAL	750	450	450	750	83.1	67.0	55	54	22,300	45,200	34.2	90	140	 	4.52	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	
UV-116 UV-117	HP-3 HP-3	RM 116 RM 117	VERTICAL VERTICAL	750 750	440 445	440 445	750 750	83.0 83.0	67.0 67.0	55 55	54 54	22,300 22,300	44,500 44,900	35.0 34.6	90 90	140 140		4.45 4.49	13	4.38 4.38	16 16	115/1/60 115/1/60	320 320	69x30 69x30	21.25	TRANE VUVE075 TRANE VUVE075	
UV-118	HP-3	RM 118	VERTICAL	750	445	445	750	83.0	67.0	55	54	22,300	44,900	34.6	90	140		4.49	13 13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	
UV-121 UV-122	HP-3 HP-3	RM 121 RM 122	VERTICAL VERTICAL	750 750	50 60	50 60	750 750	78.6 78.7	67.0 67.0	55 55	54 54	22,300 22,300	18,000 18,700	67.8 67.0	90	140 140	120	1.8 1.87	13	4.38 4.38	16 16	115/1/60 115/1/60	320 320	69x30 69x30	21.25	TRANE VUVE075 TRANE VUVE075	
IU-120	HP-3	RM 120	CEILING CASSETTE	150	20	20	150	79.1	67.0	55	54	4,500	4,300	63.6	90 90	N/A	120 N/A	N/A	13 13	1	10	208/1/160	46	33.06 X 33.06		TRANE PLA-A12EA	
IU-128 IU-128A	HP-3 HP-3	RM 128	CEILING CASSETTE CEILING CASSETTE	250	35 35	35	250 250	79.2	67.0	55 55	54 54	7,400 7,400	7,200	63.2 63.2	90 90	N/A N/A	N/A	N/A	13	1		208/1/161 208/1/162	46 46	33.06 X 33.06		TRANE PLA-A12EA TRANE PLA-A12EA	
IU-128D	HP-3 HP-3	RM 128D		250 110	35	35	110	80.7	67.0	55	54	3,300	7,200 4,500	52.0	90	N/A N/A	N/A N/A	N/A N/A	13 13	1		208/1/162	46	33.06 X 33.06 33.06 X 33.06		TRANE PLA-A12EA	
IU-158A	HP-1	RM 158A	CEILING CASSETTE	110	35	35	110	80.7	67.0	55 55	54	3,300	4,500	52.0	90	N/A	N/A	N/A	13	1		208/1/164	46	33.06 X 33.06		TRANE PLA-A12EA	
IU-159A UV-202	HP-2 HP-4	RM 159A RM 202	CEILING CASSETTE VERTICAL	110 750	35 435	35 435	110 750	80.7 82.9	67.0 67.0	55 55	54 54	3,300 22,300	4,500 44,200	52.0 35.5	90 90	N/A 140	 	N/A 4.42	13 13	4.38	16	208/1/165 115/1/60	46 320	33.06 X 33.06 69x30	37.4 21.25	TRANE PLA-A12EA TRANE VUVE075	
UV-203	HP-4	RM 203	VERTICAL	750 750	415	415	750	82.7	67.0	55 55	54	22,300	42,800	37.1	90	140		4.28	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	
UV-204 UV-205	HP-4 HP-4	RM 204 RM 205	VERTICAL VERTICAL	750 750	330 50	330 50	750 750	81.7 78.6	67.0 67.0	55 55	54 54	22,300 22,300	37,000 18,000	44.3 67.8	90 90	140 140	120 120	3.7 1.8	13 13	4.38 4.38	16 16	115/1/60 115/1/60	320 320	69x30 69x30	21.25	TRANE VUVE075 TRANE VUVE075	
UV-206	HP-4	RM 206	VERTICAL	750	330	330	750	81.7	67.0	55 55	54	22,300	37,000	44.3	90	140	120	3.7	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	5
UV-207 UV-208	HP-4 HP-4	RM 207 RM 208	VERTICAL VERTICAL	750 1000	410 490	410 490	750 1000	82.6 82.2	67.0 67.0	55 55	54 54	22,300 29,700	42,500 52,800	37.6 41.1	90 90	140 140		4.25 5.28	13 13	4.38 4.38	16 16	115/1/60 115/1/60	320 405	69x30 81x30	21.25	TRANE VUVE075 TRANE VUVE100	
UV-209	HP-4	RM 209	VERTICAL	750	415	415	750	82.7	67.0	55	54	22,300	42,800	37.1	90	140	120	4.28	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	5
UV-210 UV-211	HP-4 HP-4	RM 210 RM 211	VERTICAL VERTICAL	750 750	420 410	420 410	750 750	82.8 82.6	67.0 67.0	55 55	54 54	22,300 22,300	43,200 42,500	36.7 37.6	90 90	140 140	-	4.32 4.25	13 13	4.38 4.38	16 16	115/1/60 115/1/60	320 320	69x30 69x30	21.25	TRANE VUVE075 TRANE VUVE075	
UV-212	HP-4	RM 212	VERTICAL	1000	490	490	1000	82.2	67.0	55	54	29,700	52,800	41.1	90	140	120	5.28	13	4.38	16	115/1/60	405	81x30	21.25	TRANE VUVE100)
UV-213	HP-4	RM 213	VERTICAL	750	420	420	750	82.8	67.0	55	54	22,300	43,200	36.7	90	140	120	4.32	13	4.38	16	115/1/60	320	69x30	21.25	TRANE VUVE075	

							D	UCTL	ESS HEAT	PUMP O	UTDOOF	R UN	IT SC	CHE	DULE					
UNIT#	LOCATION	TOTAL COOLING	HEATING CAPACITY	EER	IEER	REFRIG-	REFRIG- ERANT	REFRIG CHARGE	HEATING TYPE	CONDENSER	COMPRESSOR			ELECTF	RICAL		UNIT WEIGHT	BASIS	OF DESIGN	REMARKS
		CAPACITY (MBH)	(MBH)			ERANT	SAFETY CLASS	(LBS)		EA DB °F (COOLING/ HEATING)	TYPE	VOLTS	PHASE	Hz	MOCP (A)	MCA (A)	(LBS)	MANUFACTURER	MODEL#	
HP-1	ROOF	264.0	295.0	9.3	12.5	R410A	A1	34.375	HEAT PUMP	95/0	SCROLL	208	3	60	80 / 60	49.0 / 41.0	1,302	TRANE	TURYE2643BN40A(N/B)	SEE NOTES
HP-2	ROOF	384.0	430.0	9.3	12.5	R410A	A1	52.125	HEAT PUMP	95/0	SCROLL	208	3	60	110 / 110	66.0 / 66.0	1,774	TRANE	TURYE3843BN40A(N/B)	SEE NOTES
HP-3	ROOF	384.0	430.0	9.3	12.5	R410A	A1	52.125	HEAT PUMP	95/0	SCROLL	208	3	60	110 / 110	66.0 / 66.0	1,774	TRANE	TURYE3843BN40A(N/B)	SEE NOTES
HP-4	ROOF	432.0	480.0	9.3	12.5	R410A	A1	52.125	HEAT PUMP	95/0	SCROLL	208	3	60	125 / 125	73.0 / 73.0	1,774	TRANE	TURYE4323BN40A(N/B)	SEE NOTES

DUCTLESS SPLIT-SYSTEM OUTDOOR UNIT SCHEDULE NOTES:

1. REFER TO THE DUCTLESS HEAT PUMP INDOOR UNIT SCHEDULE FOR CORRESPONDING INDOOR UNITS. ALL UNITS SHALL BE A PRODUCT OF ONE MANUFACTURER.

2. FURNISH DISCONNECT SWITCH TO BE INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.

3. PROVIDE STAND ALONE FACTORY INSTALLED DIRECT DIGITAL CONTROLS AS NECESSARY TO SATISFY THE SEQUENCE OF OPERATIONS.

4. PROVIDE VIBRATION ISOLATION.
5. PROVIDE MANUFACTURER'S STANDARD OUTDOOR UNIT DRAIN PAN WITH BASE PAN HEATER AND PIPE TO NEARBY DRAIN.
6. PROVIDE WIND BAFFLE AND OTHER ACCESSORIES AS REQUIRED BY THE MANUFACTURER FOR LOW AMBIENT COOLING AND HEATING TO 0°F OUTDOOR DRY-BULB TEMPERATURE.

VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER SCHEDULE									
TAG REFERENCE	MODEL NUMBER	TYPE (DOUBLE / MAIN / SUB)	NUMBER OF PORTS	CONNECTED CAPACITY TO BC	\/() Δ(;⊢	POWER COOLING 208V/230V (KW)	POWER HEATING 208V/230V (KW)	MCA 208/230	NOTES / OPTIONS
BC-1	TCMB1016KA11N4	MAIN	16	352,500	208/230V/1-PHASE	1.25/1.45	0.66/0.77	1.6/1.8	1, 2, 3, 4
BC-2A	TCMB1016KA11N4	MAIN	16	364,200	208/230V/1-PHASE	1.25/1.45	0.66/0.77	1.6/1.8	1, 2, 3, 4
BC-2B	TCMBS0104KB11N4	SUB	4	3,300	208/230V/1-PHASE	0.30/0.35	0.15/0.18	0.4/0.4	1, 2, 3, 4
BC-3A	TCMB1016KA11N4	MAIN	16	200,700	208/230V/1-PHASE	1.25/1.45	0.66/0.77	1.6/1.8	1, 2, 3, 4
BC-3B	TCMB1016KA11N4	MAIN	16	282,600	208/230V/1-PHASE	1.25/1.45	0.66/0.77	1.6/1.8	1, 2, 3, 4
BC-4	TCMB1016KA11N4	MAIN	16	282,400	208/230V/1-PHASE	1.25/1.45	0.66/0.77	1.6/1.8	1, 2, 3, 4

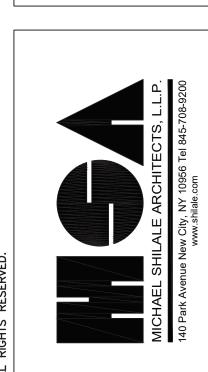
BC CONTROLLER SCHEDULE NOTES:

1. INCLUDE DIAMONDBACK BALL VALVES BV-SERIES, 700PSIG WORKING PRESSURE, FULL PORT, 410A RATED.

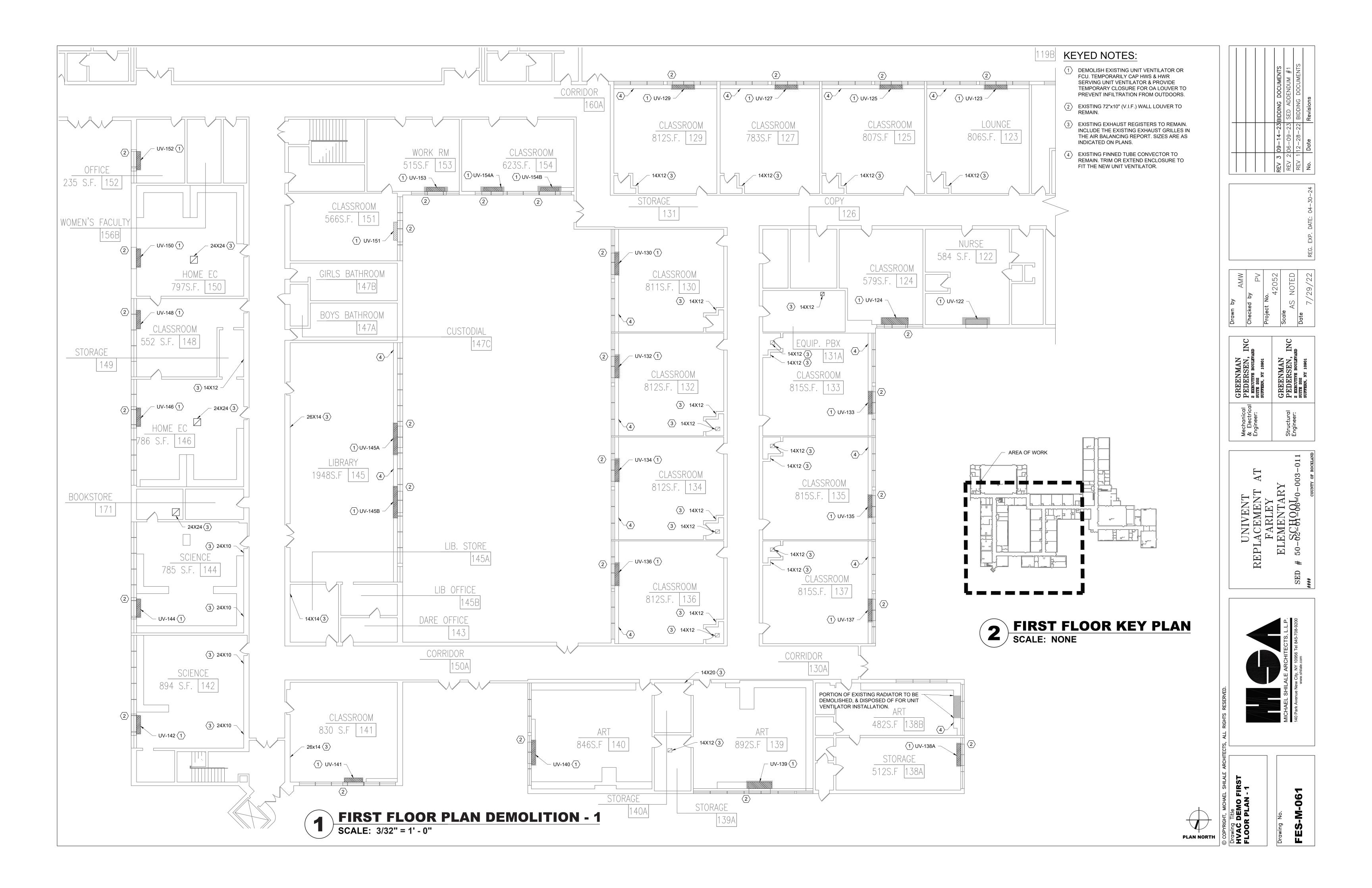
2. A SUB BC CONTROLLER IS NOT REQUIRED FOR THIS PROJECT. FOR SUB BC CONTROLLER INFO, SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

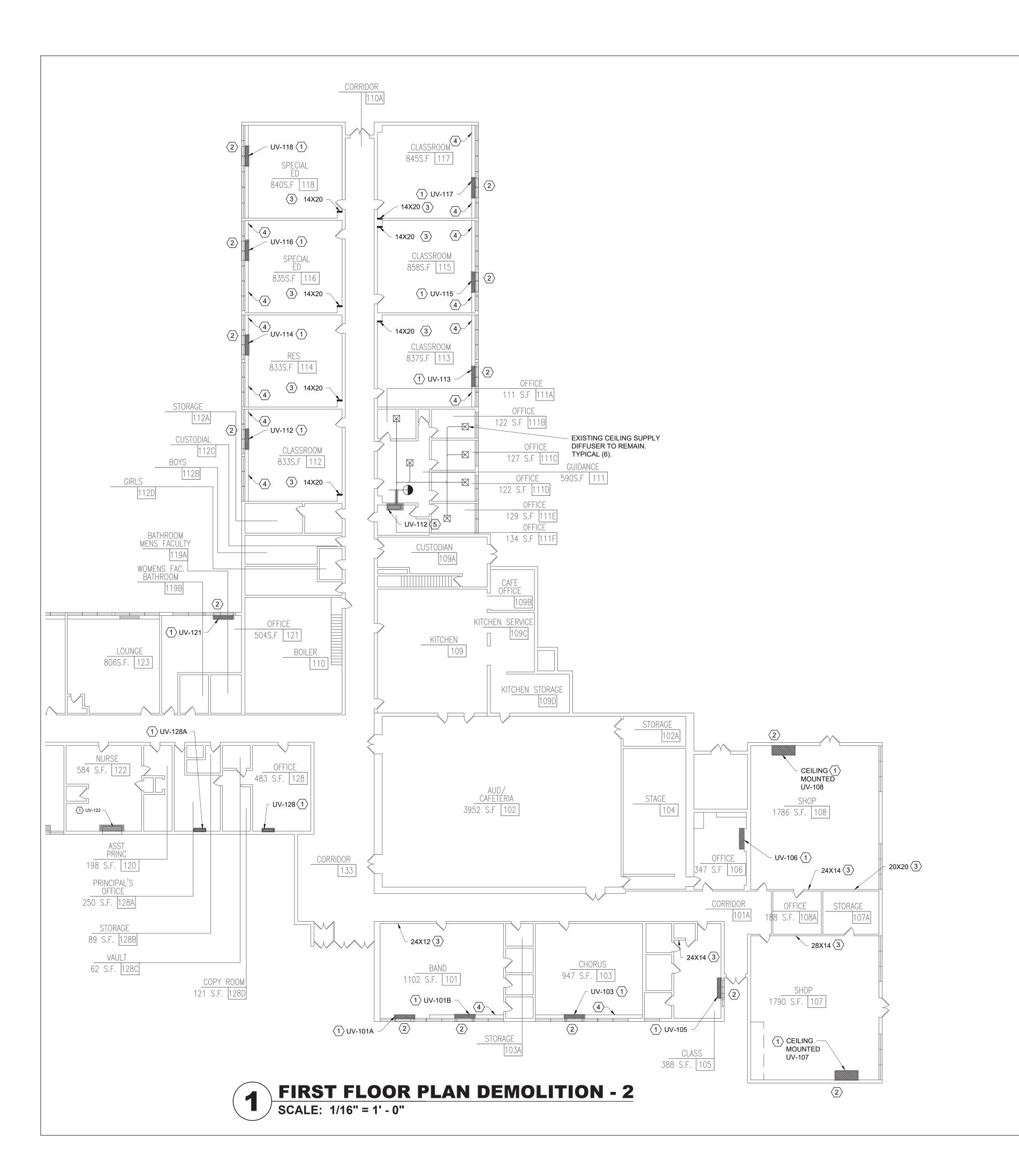
3. PROVIDE REFRIGERATION BALL VALVE-BRAZE/SCHRADER/INSULATED - 3/8" SIZE 4. PROVIDE REFRIGERATION BALL VALVE-BRAZE/SCHRADER/INSULATED - 5/8" SIZE

GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202
Mechanical & Electrical Engineer:	Structural Engineer:



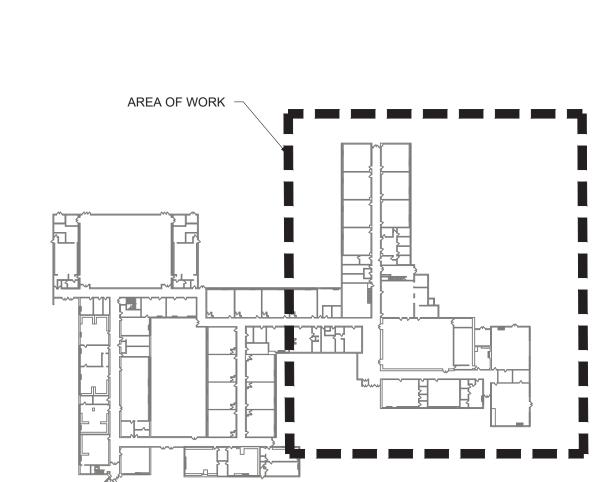
Drawing Title
MECHANICAL
SCHEDULES - 3





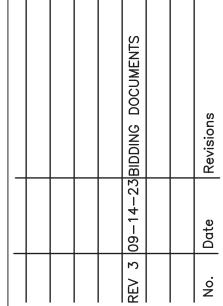
KEYED NOTES:

- DEMOLISH EXISTING UNIT VENTILATOR OR FCU. TEMPORARILY CAP HW PIPING & PROVIDE TEMPORARY CLOSURE FOR OA LOUVER TO PREVENT INFILTRATION FROM OUTDOORS.
- (2) EXISTING 72"x10" (V.I.F.) WALL LOUVER TO REMAIN.
- (3) EXISTING EXHAUST GRILLES TO REMAIN. INCLUDE THE EXISTING EXHAUST GRILLES IN THE AIR BALANCING REPORT. SIZES ARE AS INDICATED ON PLANS.
- EXISTING FINNED TUBE CONVECTOR TO REMAIN. TRIM OR EXTEND ENCLOSURE TO FIT THE NEW UNIT VENTILATOR.
- (5) EXISTING HORIZONTAL UNIT VENTILATOR TO BE REMOVED ALONG WITH PORTION OF DUCTWORK.











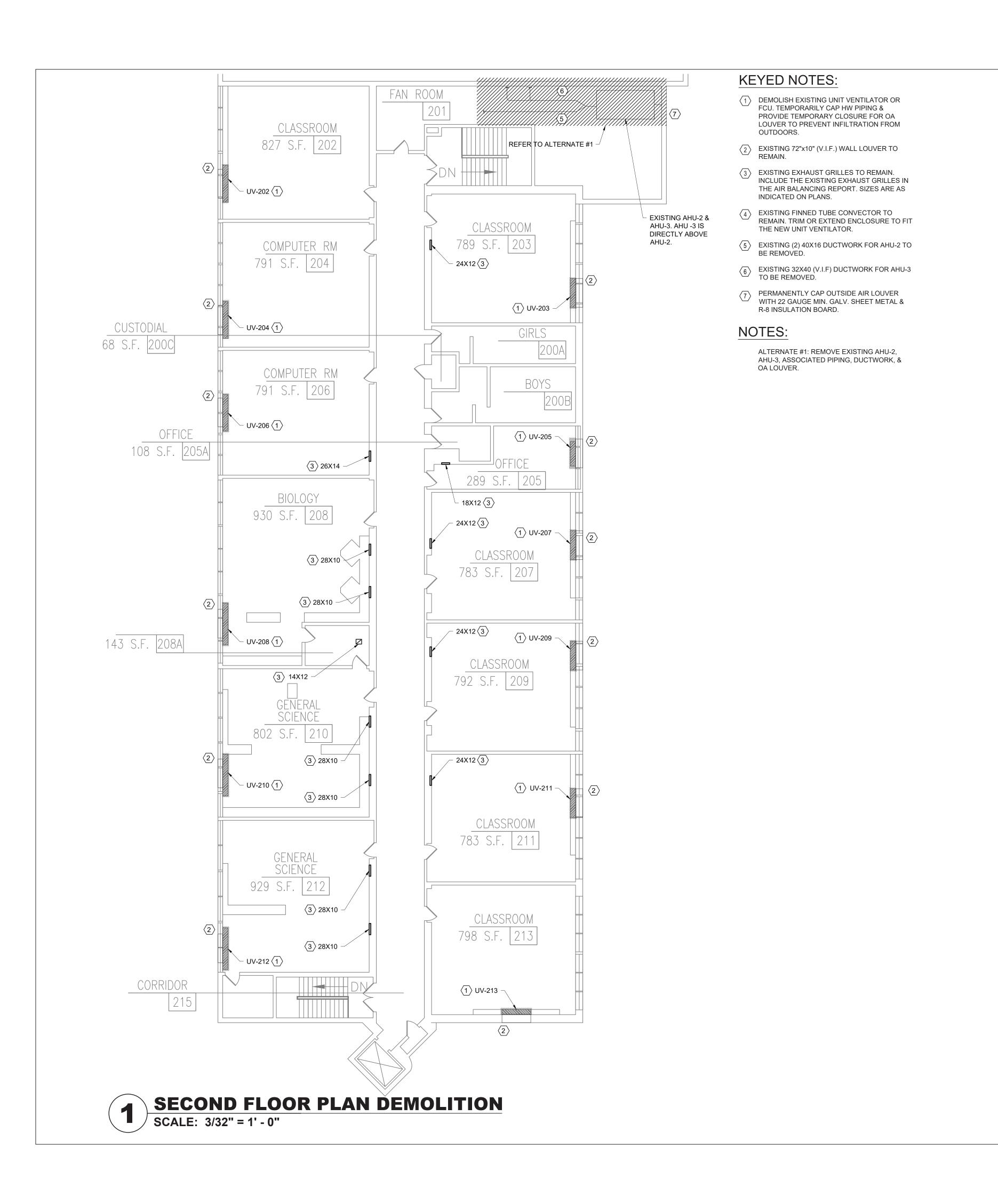
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Date	
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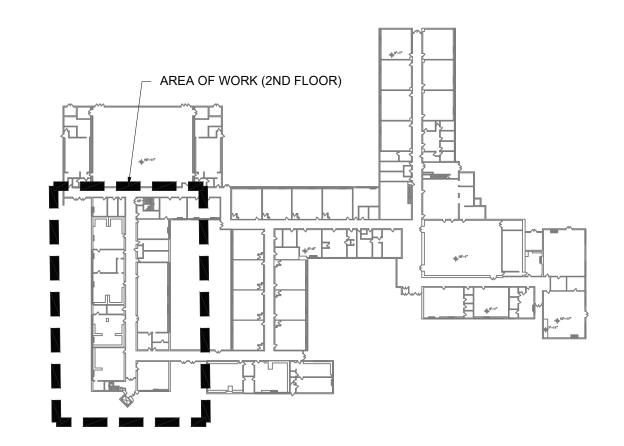
GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901
Mechanical & Electrical Engineer:	Structural Engineer:

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REPLACEMENT AT
FARLEY
ELEMENTARY
SED # 50-82CHO8L0-003-011



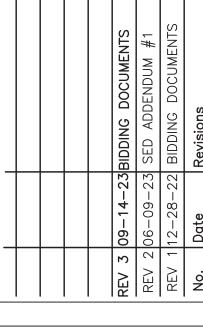


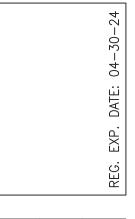




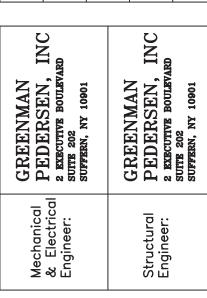








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Date

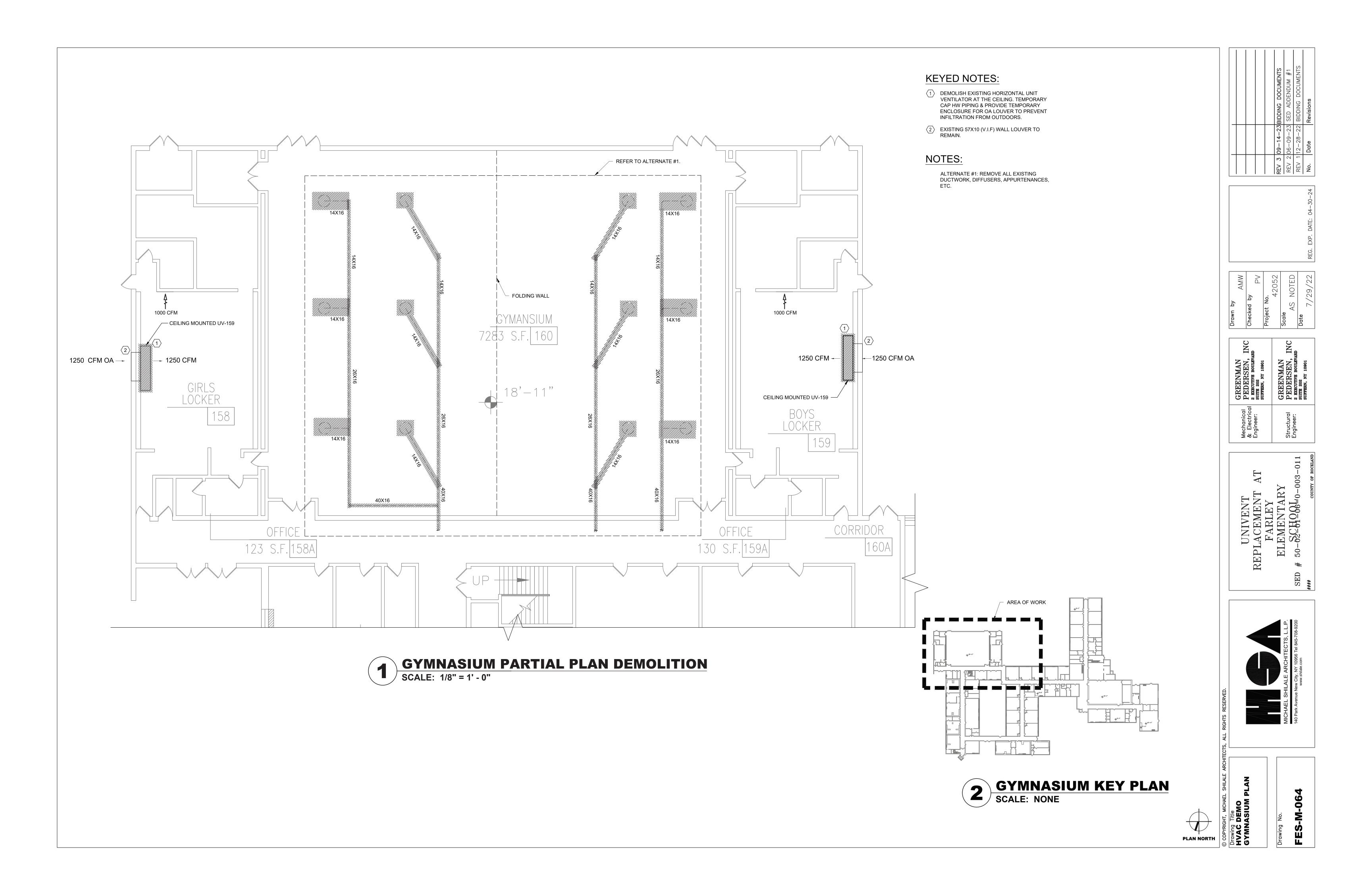


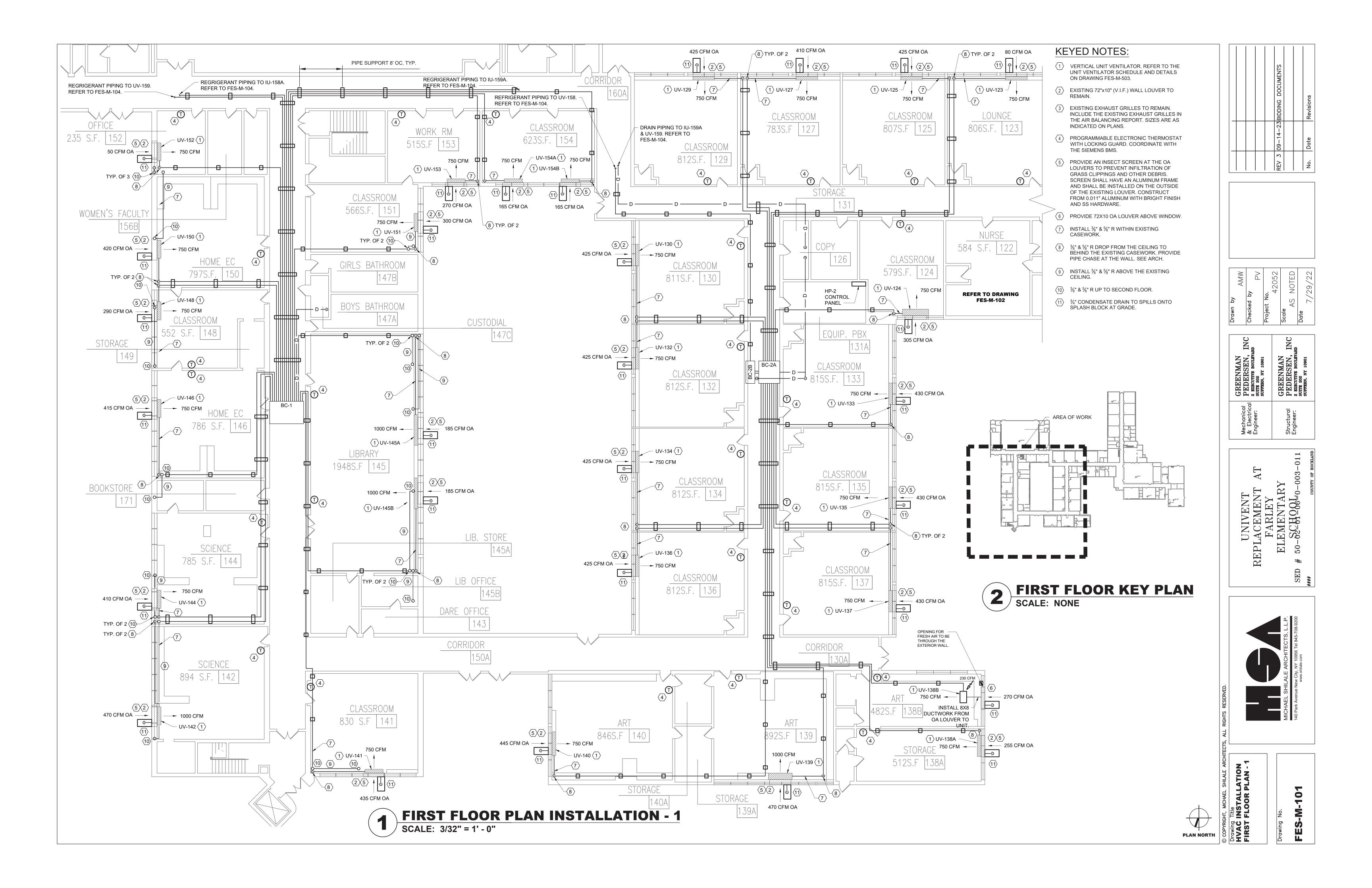
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REPLACEMENT AT
FARLEY
ELEMENTARY
ED # 50-82CHO8L0-003-011

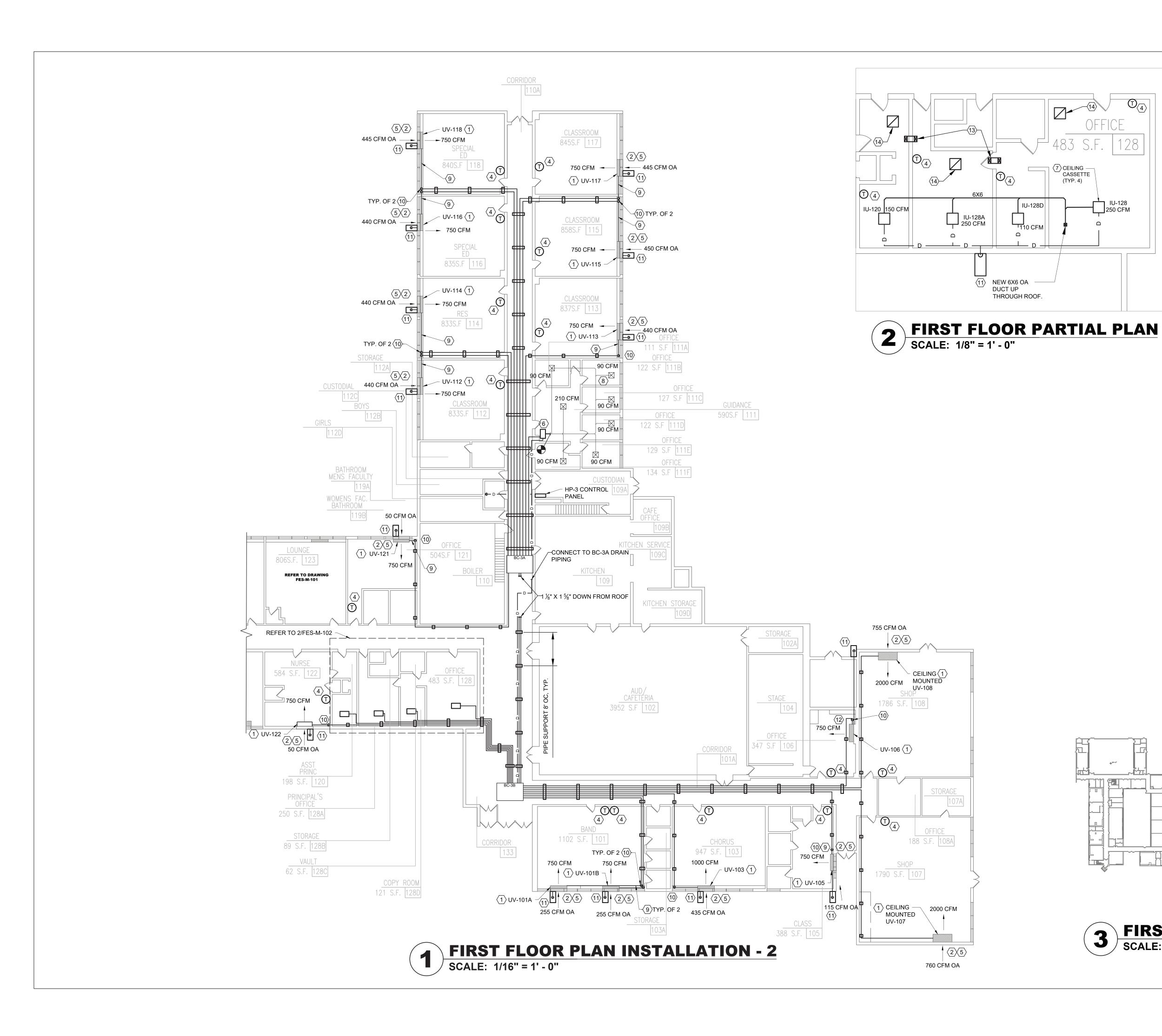


HVAC DEMO SECOND
FLOOR PLAN

Drawing No.







KEYED NOTES:

□ IU-128

____250 CFM

- (1) VERTICAL UNIT VENTILATOR. REFER TO THE UNIT VENTILATOR SCHEDULE AND DETAILS ON DRAWING FES-M-503.
- (2) EXISTING 72"x10" (V.I.F.) WALL LOUVER TO REMAIN.
- (3) EXISTING EXHAUST GRILLES TO REMAIN. INCLUDE THE EXISTING EXHAUST GRILLES IN THE AIR BALANCING REPORT. SIZES ARE AS INDICATED ON PLANS.
- PROGRAMMABLE ELECTRONIC THERMOSTAT WITH LOCKING GUARD. COORDINATE WITH THE SIEMENS BMS.
- PROVIDE AN INSECT SCREEN AT THE OA LOUVERS TO PREVENT INFILTRATION OF GRASS CLIPPINGS AND OTHER DEBRIS. SCREEN SHALL HAVE AN ALUMINUM FRAME AND SHALL BE INSTALLED ON THE OUTSIDE OF THE EXISTING LOUVER. CONSTRUCT FROM 0.011" ALUMINUM WITH BRIGHT FINISH AND SS HARDWARE.
- 6 UV-111 TO TIE INTO THE EXISTING SUPPLY & OUTSIDE AIR DUCTWORK.
- (7) CEILING CASSETTE AT CEILING.
- (8) EXISTING CEILING SUPPLY DIFFUSER TO REMAIN. TYPICAL (7).
- 9 INSTALL $\frac{3}{8}$ " & $\frac{5}{8}$ " R WITHIN EXISTING CASEWORK.
- 3/8" & 5/8" R DROP FROM THE CEILING TO BEHIND THE EXISTING CASEWORK. PROVIDE PIPE CHASE AT THE WALL. SEE ARCH.
- (11) 3/4" CONDENSATE DRAIN TO SPILLS ONTO SPLASH BLOCK AT GRADE.
- PROVIDE UNIT VENTILATOR WITH CONDENSATE LIFT PUMP.
- 12"x6" TRANSFER DUCT ABOVE CEILING (PRICE CROSS TALK SILENCER XT OR EQUAL)
- $\langle 14 \rangle$ 24'x24' RG AT CEILING.

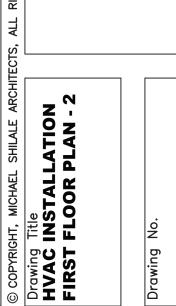
		REV 3 09-14-23 BIDDING DOCU	REV 2 06-09-23 SED ADDENDL	REV 1 12-28-22 BIDDING DOCL	Revisions
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		REV 3	REV 2	REV 1	No.
					EXP. DATE: 04-30-24

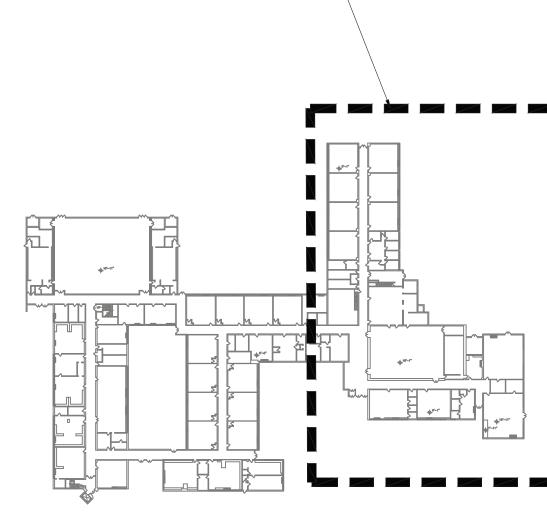
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GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUITERN, NY 10901
Mechanical & Electrical Engineer:	Structural Engineer:

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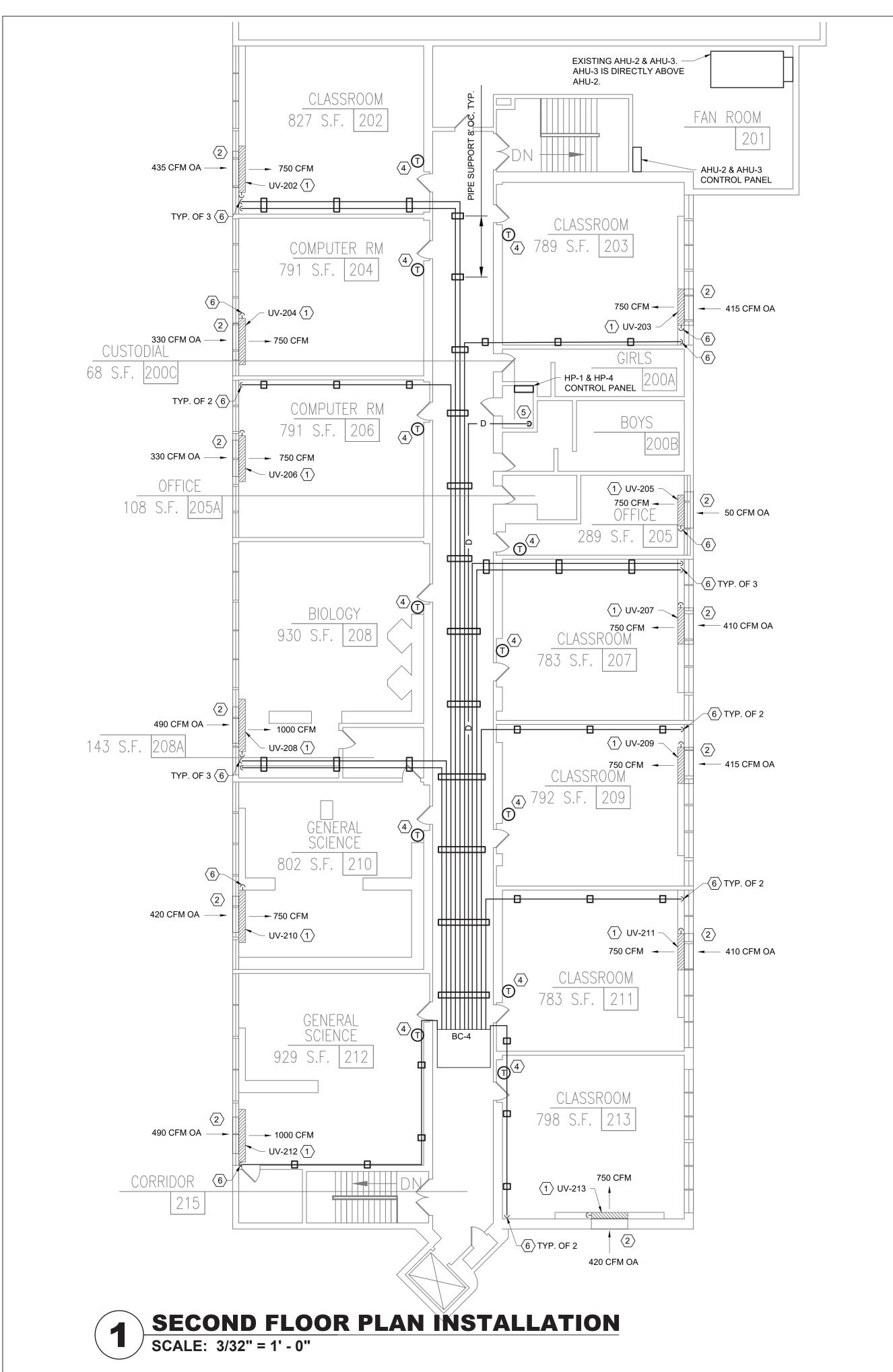




AREA OF WORK

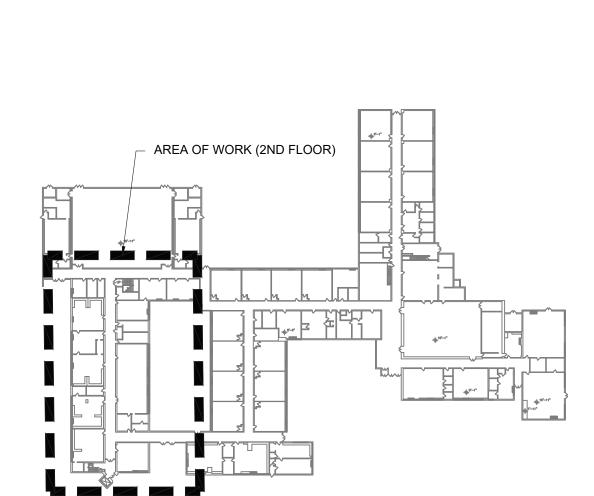






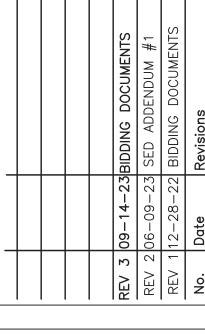
KEYED NOTES:

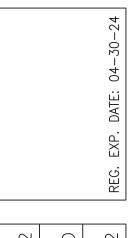
- VERTICAL UNIT VENTILATOR OR FCU. REFER TO THE UNIT VENTILATOR SCHEDULE ON FES-M-503 SCHEDULE AND DETAILS ON DRAWING FES-M-501/2.
- (2) EXISTING 72"x10" (V.I.F.) WALL LOUVER TO REMAIN.
- EXISTING EXHAUST GRILLES TO REMAIN. INCLUDE THE EXISTING EXHAUST GRILLES IN THE AIR BALANCING REPORT. SIZES ARE AS INDICATED ON PLANS.
- PROGRAMMABLE ELECTRONIC THERMOSTAT WITH LOCKING GUARD. COORDINATE WITH THE SIEMENS BMS.
- 5 TERMINATE ¾" CONDENSATE DRAIN AT EXISTING SERVICE SINK.
- 6 %" & %" R DROP FROM THE CEILING TO BEHIND THE EXISTING CASEWORK. PROVIDE PIPE CHASE AT THE WALL. SEE ARCH.









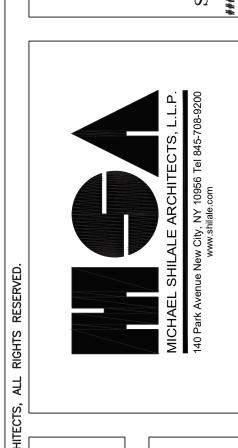


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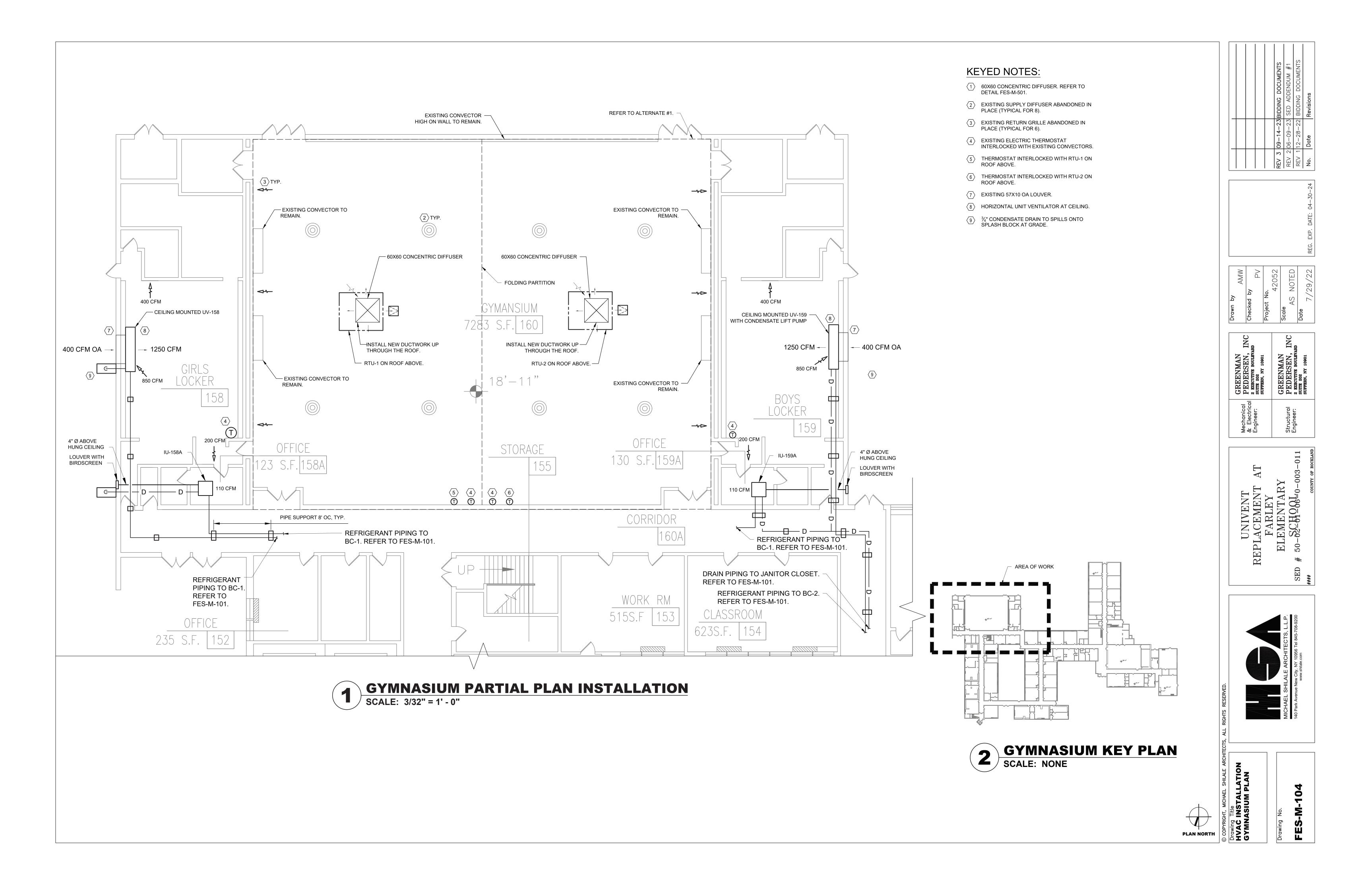
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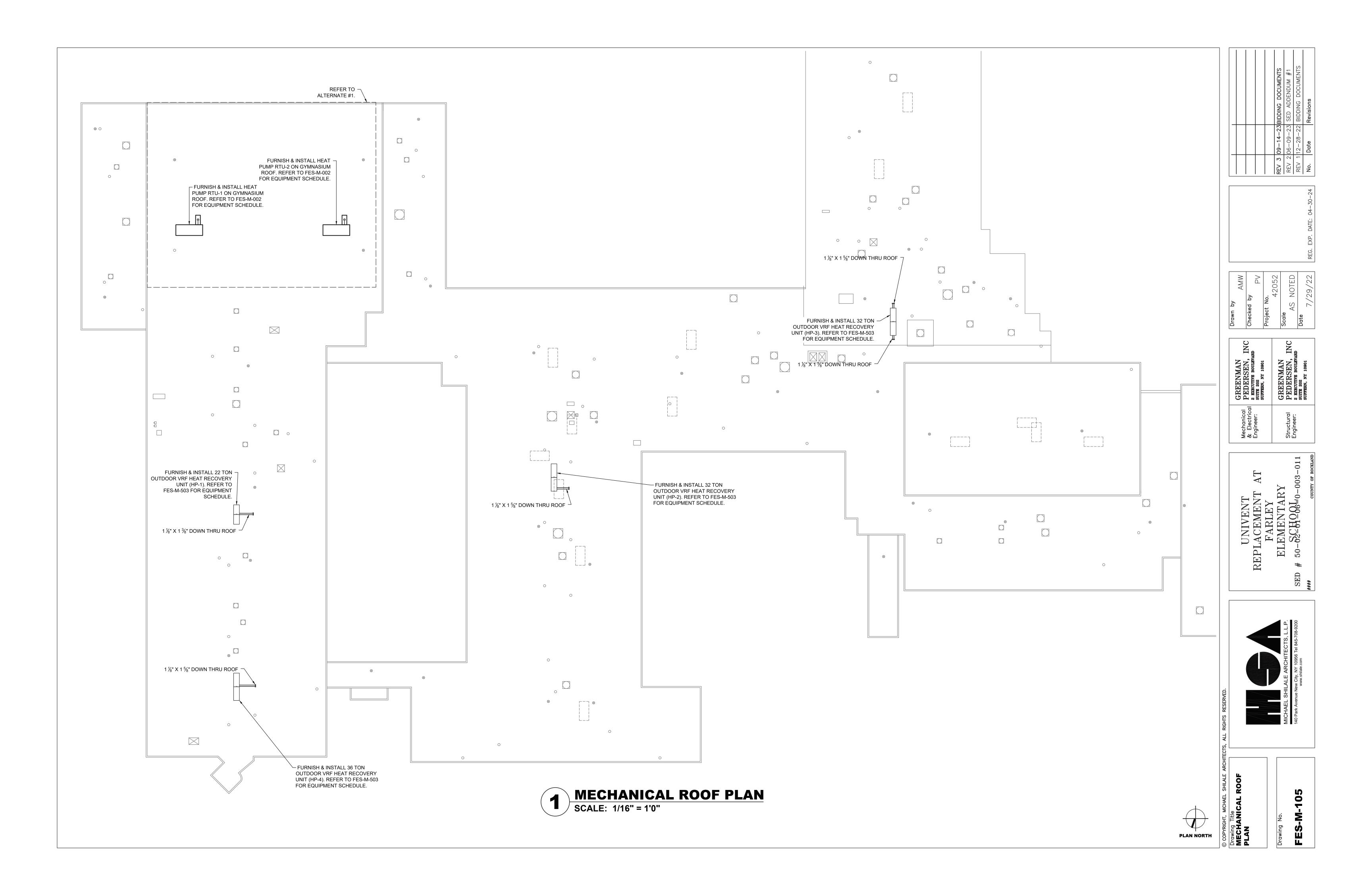
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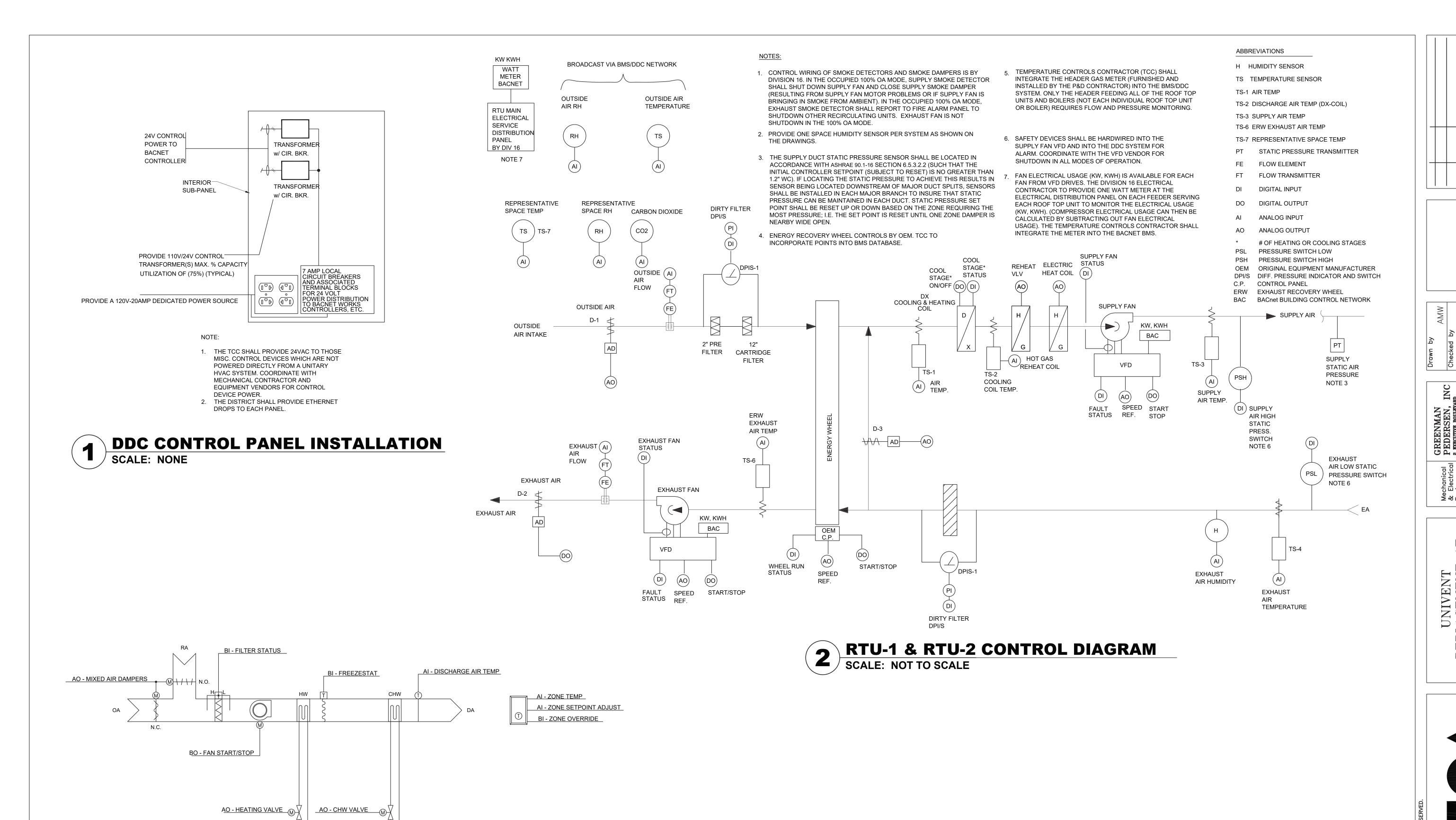
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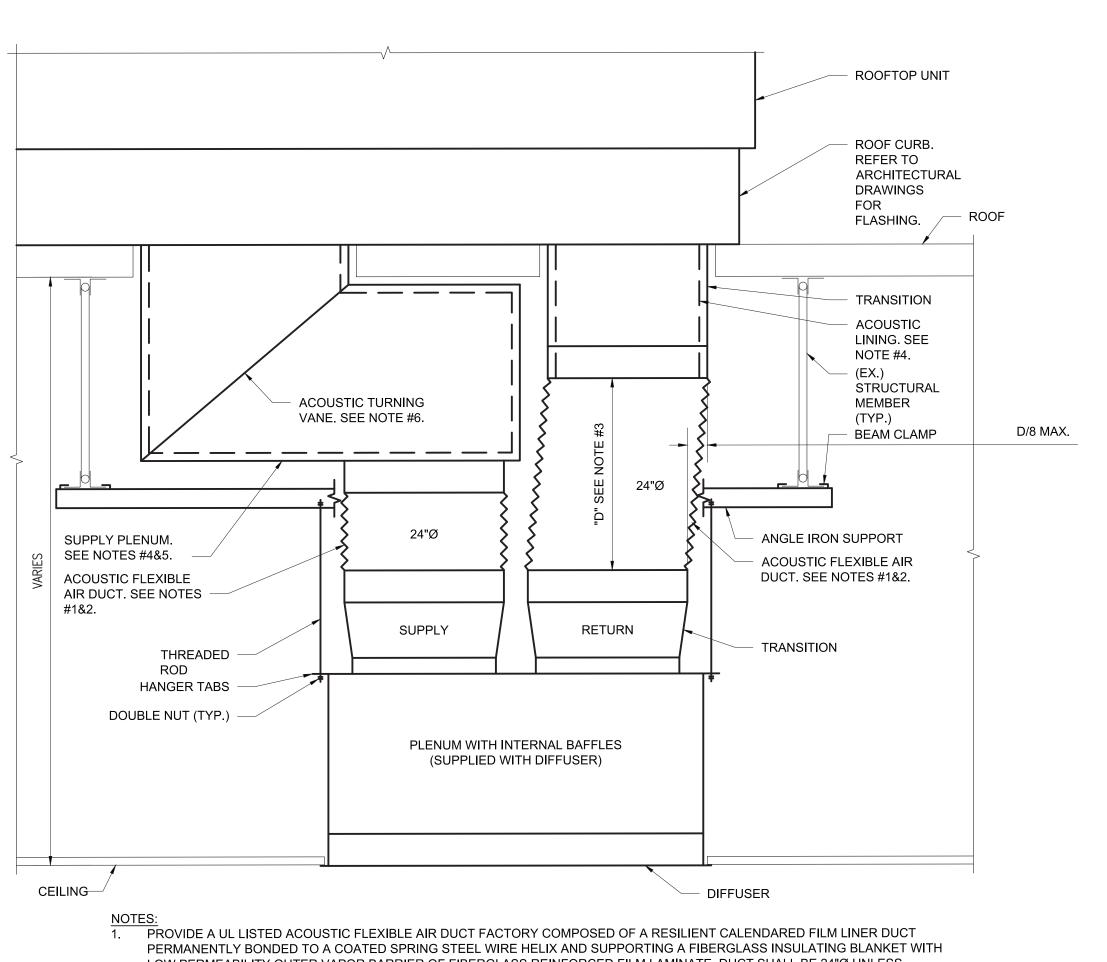
Drawing Title
HVAC INSTALLATION
SECOND FLOOR PLAN
Drawing No.







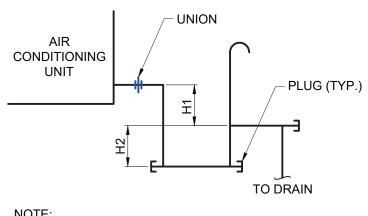




LOW PERMEABILITY OUTER VAPOR BARRIER OF FIBERGLASS REINFORCED FILM LAMINATE. DUCT SHALL BE 24"Ø UNLESS OTHERWISE NOTED ON THE PLANS. BASIS OF DESIGN, THERMAFLEX M-KE.

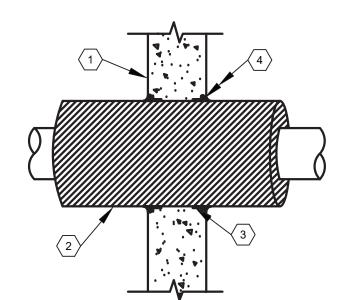
- MAXIMUM OFFSET FOR FLEXIBLE DUCT SHALL BE 1/8 OF ITS INSTALLED LENGTH. USE ROUND, LONG RADIUS GALVANIZED STEEL ELBOWS IF A GREATER OFFSET IS REQUIRED. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- FLEXIBLE DUCT SHALL BE LIMITED TO 5 FEET IN LENGTH. DUCT SHALL BE INTERNALLY LINED WITH 1" THICK ACOUSTIC FIBERGLASS DUCT LINER (JOHNS MANVILLE LINACOUSTIC RC-HP OR
- CLEAR INSIDE DIMENSIONS OF SUPPLY PLENUM SHALL BE 24"X24" MINIMUM. PROVIDE 4" DOUBLE WALL ACOUSTIC TURNING VANES WHERE SHOWN (DUCTMATE 4AVGA24 OR EQUAL).

CONCENTRIC DIFFUSER DETAIL SCALE: 1" = 1'0" REFER TO ALTERNATE #1



SLOPE PIPING 1/8" PER FOOT TOWARD DRAIN. TERMINATE WITHIN 6" OF THE NEAREST ROOF

- FOR DRAW THROUGH UNITS: H1= NEGATIVE STATIC PRESSURE OF FAN + 1" MIN. H2=H1. MINIMUM PIPE SIZES SHALL BE AS FOLLOWS:
- a. FOR EQUIPMENT UP TO 20 TONS REFRIGERATION: 3/4" b. FOR EQUIPMENT OVER 20 TONS UP TO 40
- TONS REFRIGERATION: 1". CONNECT THE CONDENSATE DRAIN TO THE EXISTING CONDENSATE DRAIN PIPING AT EACH
- UNIT VENTILATOR AND FAN COIL UNIT. **CONDENSATE TRAP** SCALE: N.T.S.

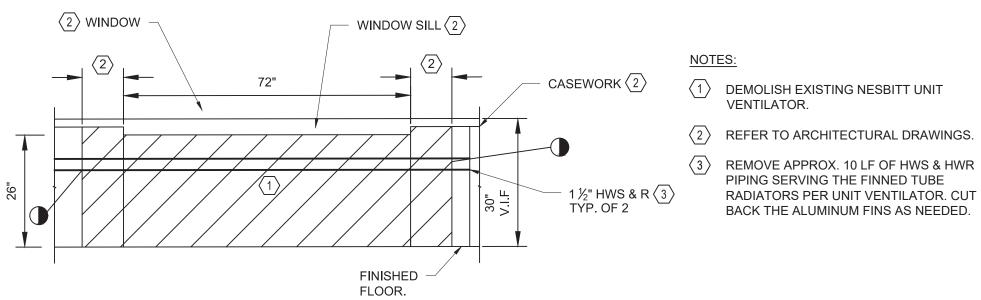


(1) CONCRETE OR CONCRETE BLOCK WALL

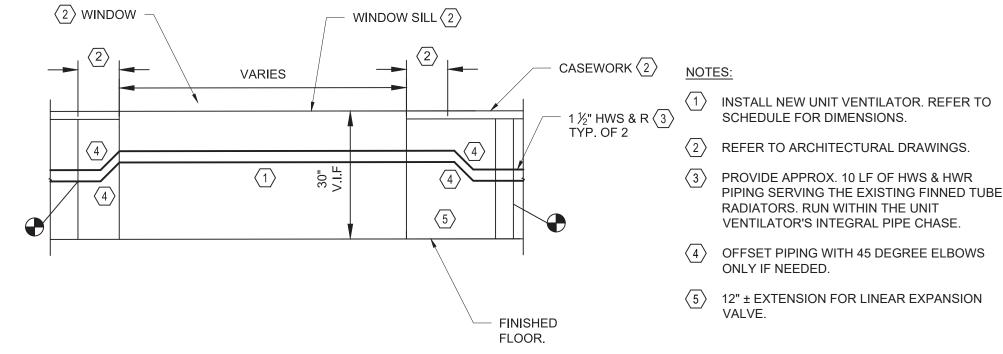
MINERAL WOOL INSULATION

- (2) STEEL OR IRON PIPE TO 12" OR COPPER PIPE UP TO 6" WITH UP TO 3" FIBERGLASS OR
- 3 angle WRAP STRIP. WRAP PRODUCT AROUND PIPE, SECURE WITH STEEL TIE WIRE, AND RECESS 1-3/4" INTO WALL CAVITY
- 4 SEALANT. INSTALL 1/4" BEAD AROUND WRAP STRIP/INSULATION INTERSTICES. ANNULUS AFTER INSTALLATION OF WRAP STRIP(S) SHALL RANGE FROM POINT CONTACT TO 1/4"

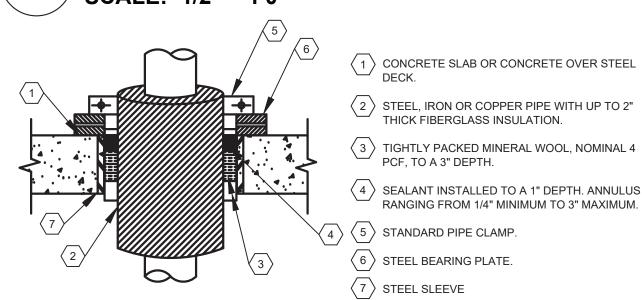




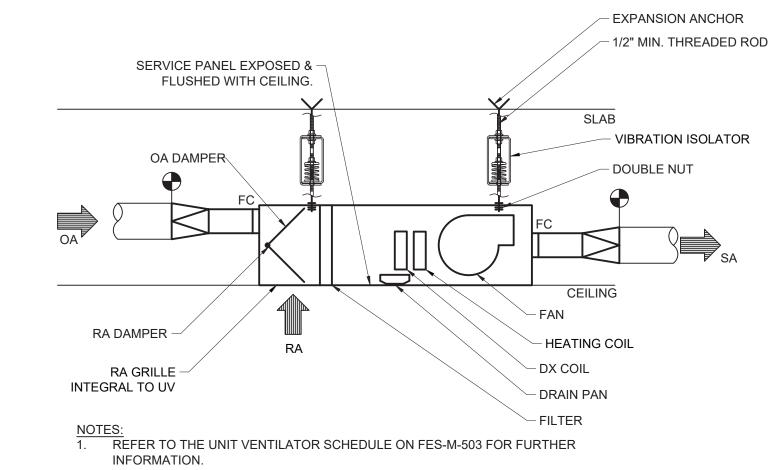
UNIT VENTILATOR DEMOLITION SCALE: 1/2" = 1'0"



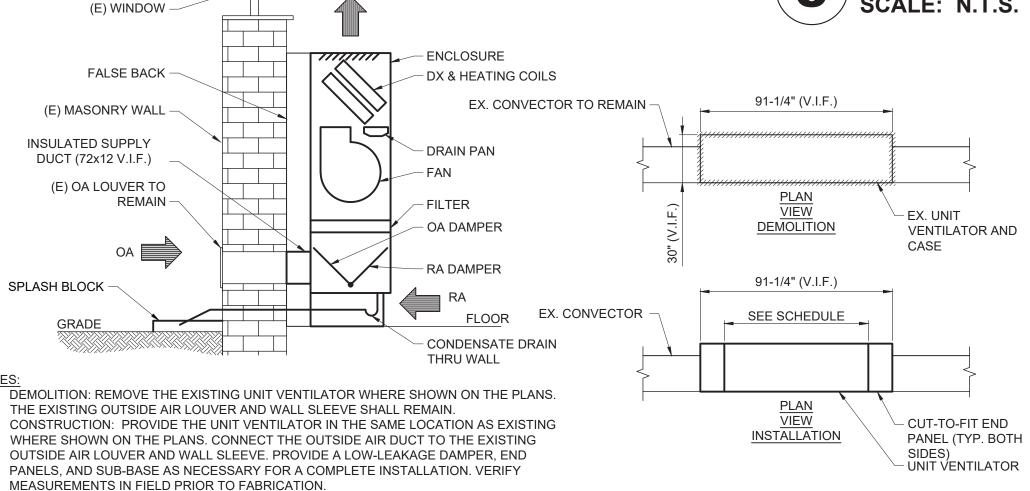
UNIT VENTILATOR INSTALLATION SCALE: 1/2" = 1'0"

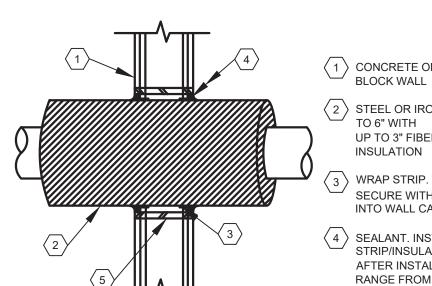












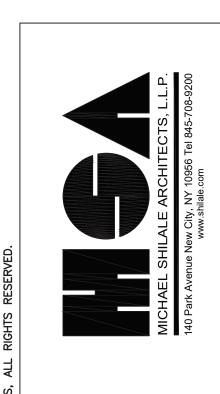
- (1) CONCRETE OR CONCRETE
- 2 STEEL OR IRON PIPE TO 12" OR COPPER PIPE UP UP TO 3" FIBERGLASS OR MINERAL WOOL
- $\binom{3}{3}$ WRAP STRIP. WRAP PRODUCT AROUND PIPE, SECURE WITH STEEL TIE WIRE, AND RECESS 1-3/4" INTO WALL CAVITY
- 4 SEALANT. INSTALL 1/4" BEAD AROUND WRAP STRIP/INSULATION INTERSTICES. ANNULUS AFTER INSTALLATION OF WRAP STRIP(S) SHALL RANGE FROM POINT CONTACT TO 1/4" MAXIMUM
- (5) STEEL SLEEVE

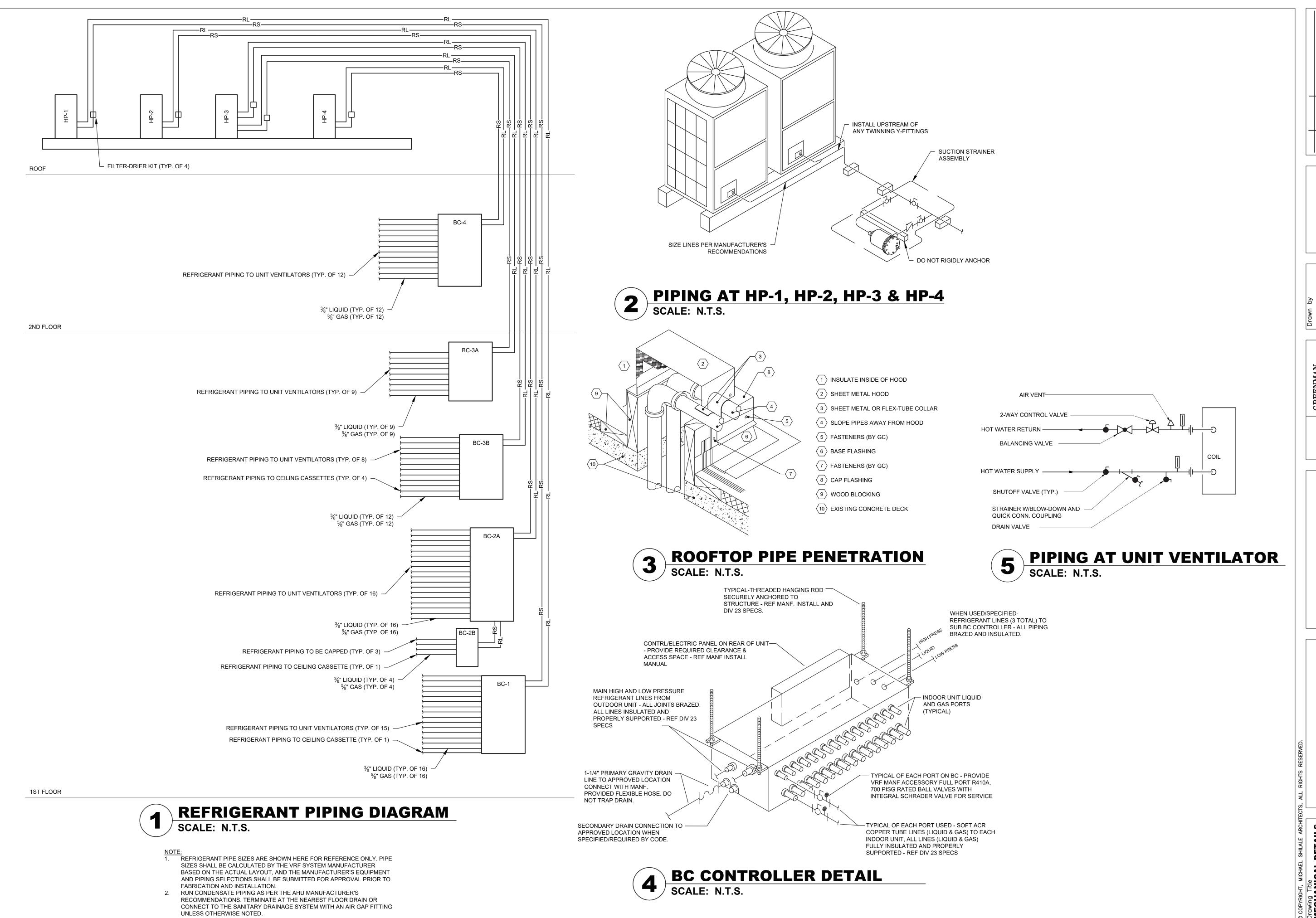
UNIT VENTILATOR DETAILS SCALE: N.T.S.



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REV 2 06-09-23 SED ADDENDUM #1
REV 112-28-22 BIDDING DOCUMENTS

REG. EXP. DATE: 04-30-24

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PEDERSEN, INC
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Mechanical & Electrical Engineer: SUFFERN, NY 109

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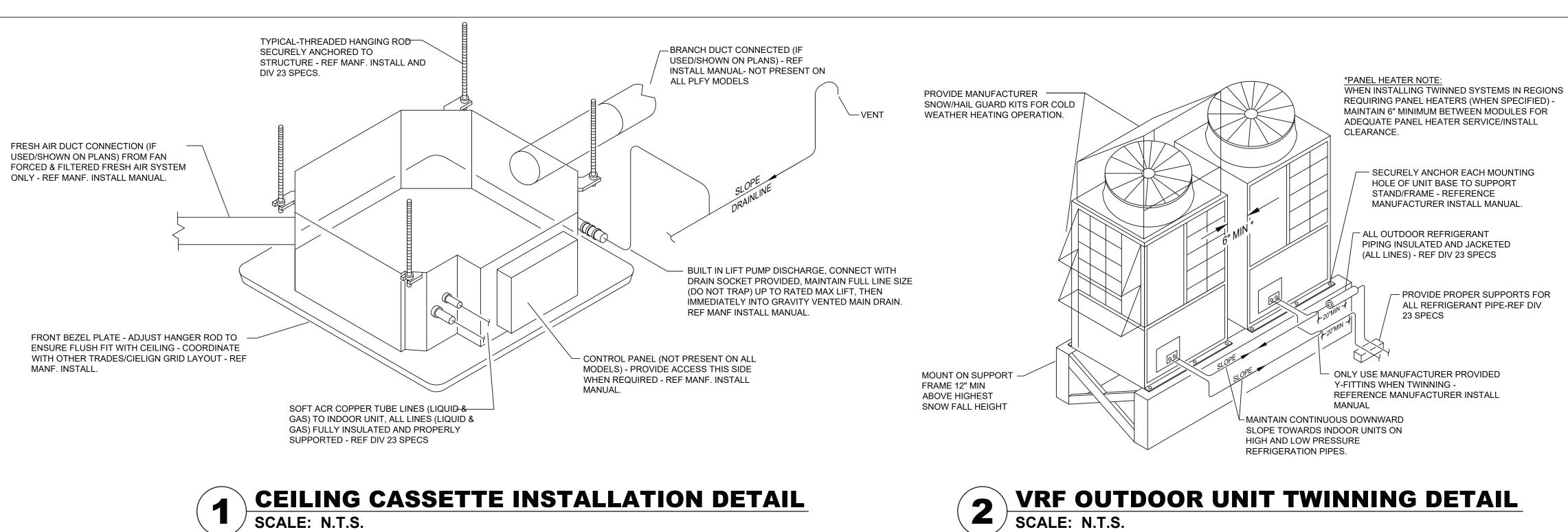
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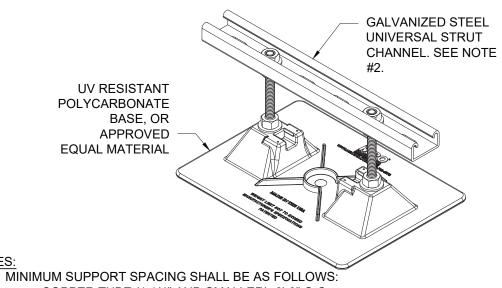
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TANICAL DETAILS

Drawing No.

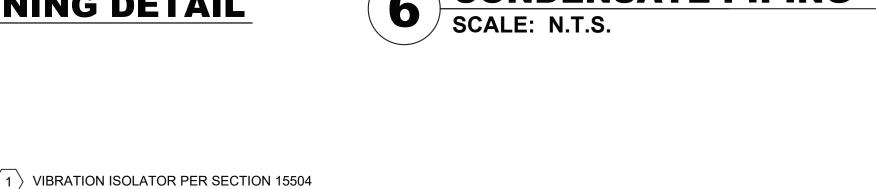




COPPER TUBE (1 1/4" AND SMALLER): 6'-0" O.C. COPPER TUBE (1 1/2" AND LARGER): 10'-0" O.C.

- FOR SIZES AND MATERIALS NOT LISTED ABOVE, COMPLY WITH 2015 MCNYS 2. VERIFY IN FIELD REQUIRED STRUT CHANNEL HEIGHT. SECURE PIPING TO
- CHANNEL USING CLAMP CONSTRUCTED OF COMPATIBLE MATERIAL. 3. BASIS OF DESIGN: MIRO IND. MODEL 2.5-CS.

SUPPORT FOR ROOFTOP CONDENSATE PIPING



BOLTED TO STEEL BEAM. PROVIDE ISOLATORS

FOR USE OUTDOORS. (TYP OF 4)

 $\langle 5 \rangle$ MINIMUM 3 5/8"

(6) MINIMUM 102" U.O.N.

ATTACHED TO RAIL.

 \langle 2 \rangle COUNTER FLASHING OVER TREATED WOOD

(3) GALVANIZED STEEL, MIN. 18 GAGE WITH WELDED

 \langle 7 angle GALVANIZED STEEL BEAM OR STRUT CHANNEL



VRF ROOFTOP SUPPORT RAIL DETAIL

FRONT VIEW

METAL DECK —

ROOF LEVEL

JOISTS BELOW (TYP) $\langle 13 \rangle$

INSULATION LAYER

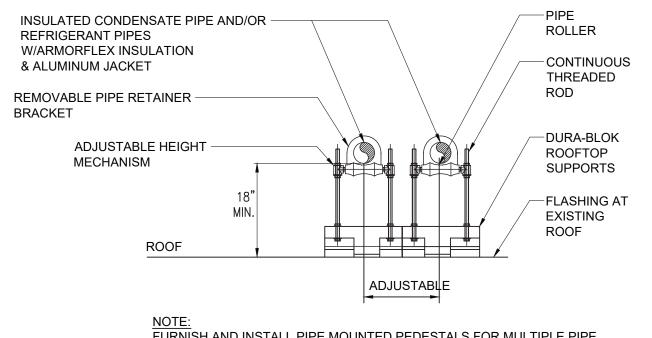
CODED NOTES:

- 1. PROVIDE STRUCTURAL INTERSTITIAL ANGLE IRON MOUNTING MEMBER OR SIMILAR ATTACHED DIRECTLY TO BOTTOM OF UNIT MOUNTING FLANGE AND PROVIDE CROSS BRACING FOR RIGIDITY. ENSURE IT CARRIES FULL MOUNTING FOOT WIDTH ON UNIT. FINAL SPECIFICATION OF MEMBER BY STRUCTURAL ENGINEER OF RECORD.
- 2. PROVIDE BRAIDED COPPER FLEXIBLE CONNECTOR, R410A RATED, 650PSI MAX WORKING PRESSURE, PACKLESS INDUSTRIES OR EQUAL ON ALL MAIN PIPING DOWNSTREAM OF TWINNING KITS/CONVERGING FITTINGS PRIOR TO PENETRATION THROUGH ROOF.
- 3. PIPE ROOF CURB, FLASHED AND SEALED WATER TIGHT, PROVIDE FLEXIBLE WATER TIGHT COLLAR TO ALLOW FOR MOVEMENT WHERE PIPE ENTERS CURB. DO NOT ENTER PIPE CURB FROM VERTICAL DIRECTION.
- 4. TYPICAL BASE SUPPORT POSTS, SECURELY ANCHORED TO BUILDING STRUCTURE BELOW, QUANTITY, SIZE, AND CARRYING CAPACITY DETERMINED BY STRUCTURAL ENGINEER OF RECORD.
- 5. STRUCTURAL ANGLE IRON BASE MOUNTING FRAME WITH CROSS MEMBERS FOR RIGIDITY FINAL SIZING BY STRUCTURAL ENGINEER OF RECORD.
- 6. VIBRATION SPRING SLR TYPE ISOLATORS (MASON INDUSTRIES OR EQUIV.) WITH RUBBER BASE PADS, SECURELY FASTENED TO STRUCTURAL BASE AND TO VRF UNIT INTERSTITIAL SUPPORT STEEL. SPRING ISOLATOR TO PROVIDE MINIMUM 1" DEFLECTION OR 10 TIMES THE STATIC DEFLECTION OF THE ROOF DECK FROM EQUIPMENT WEIGHT - DETERMINED BY STRUCTURAL ENGINEER OF RECORD. AT A MINIMUM, PROVIDE SPRING ISOLATORS AT EACH EQUIPMENT BASE MOUNTING HOLE LOCATION.
- 7. IF REQUIRED, ONLY SUPPORT LATERAL PIPE EMANATING FROM VRF UNIT CONNECTIONS BY CROSS MEMBER SUPPORT THAT IS ATTACHED DIRECTLY TO VRF UNIT MOUNTING ANGLE IRON FRAME ABOVE SPRING ISOLATORS. DO NOT ATTACH ANY PIPING TO LOWER FIXED SUPPORT BASE.
- 8. USE NEOPRENE ISOLATION COLLARS ON PIPE CLAMS WHEN FASTENING PIPING TO SUPPORTS

SIDE VIEW

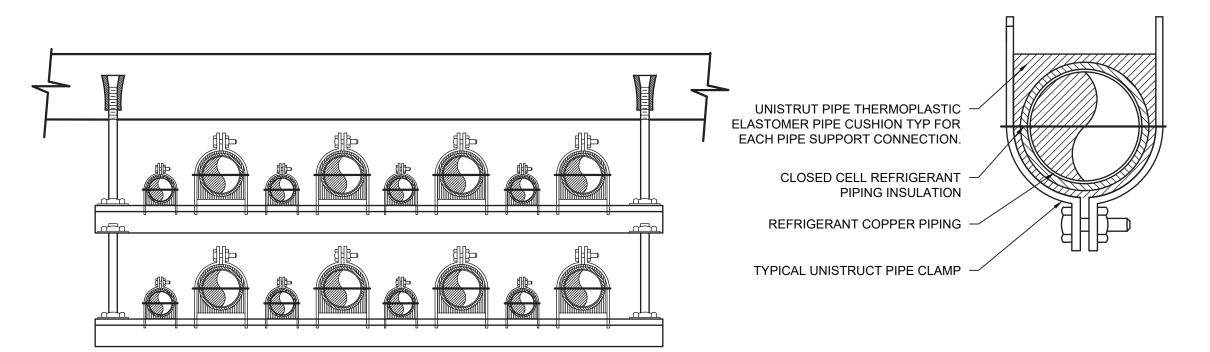
- 9. USE LONG RADIUS SWEEPING COPPER ACR TUBE PIPE BENDS WHERE PIPE ENTERS BUILDING AT FIRST ELBOW INTO CEILING SPACE TO MINIMIZE REFRIGERANT FLOW NOISE AND VIBRATION.
- 10. ALL ELECTRICAL CONNECTIONS TO UNITS TO BE VIA FLEXIBLE CONDUIT, PROVIDE SUFFICIENT SLACK TO ALLOW FOR UNIT MOVEMENT ON SPRING
- 11. ENSURE CROSS MEMBERS OF INTERSTITIAL FRAME AND BOTTOM SUPPORT FRAME ARE NOT DIRECTLY BELOW ENDS OF MODULES IN ALL LOCATIONS AND DO NOT BLOCK DRAINAGE WEEP HOLES IN BOTTOM OF UNIT CASING, FAILURE TO DO THIS MAY RESULT IN ICE DAMMING/BUILDUP BENEATH UNIT AND SUBSEQUENT BUILDUP OF ICE IN BOTTOM OF UNIT CASING BELOW COIL AND POTENTIAL DAMAGE TO BOTTOM OF COIL.
- 12. WHEN SELECTING SPRING ISOLATORS ALWAYS CONSIDER WEIGHT DISTRIBUTION BY REFERENCING EQUIPMENT WEIGHT AND CENTER OF GRAVITY. NEAR RIGHT ENDS OF UNITS (VIEWED FROM FRONT PANEL) SPRING WEIGHT CAPACITY MAY BE LARGER. IF HIGHER SPRING WEIGHT CAPACITY IS REQUIRED VS OTHER SPRING LOCATIONS, CONSIDER AN ADDITIONAL SPRING OF EQUAL "K" VALUE (lbs/in) NEAR RIGHT END OF LAST MODULE. IN GENERAL IT IS RECOMMENDED TO SELECT ALL MOUNTING SPRINGS OF EQUIVALENT "K" VALUE (lbs/in).
- 13. REFER TO THE STRUCTURAL DRAWINGS (SPECIFICALLY S102) FOR INSTALLATION REQUIREMENTS AND DETAILS OF THE EXISTING ROOF STRUCTURE.





FURNISH AND INSTALL PIPE MOUNTED PEDESTALS FOR MULTIPLE PIPE SUPPORTS MANUFACTURED BY COOPER B-LINE, (DURA-BLOK ROOFTOP SUPPORTS) DB SERIES OR APPROVED EQUAL.







SYMBOL	DESCRIPTION					
2,4	CONDUIT AND WIRE RUN CONCEALED IN FLOOR, CEILING OR WALL IN NEW CONSTRUCTION & SURFACE IN EXISTING CONSTRUCTION. HASH MARKS DENOTE NUMBER OF WIRES IF MORE THAN TWO ARE REQUIRED ARROWS DENOTE HOMERUNS OF PARTICULAR CIRCUITS, MINIMUM 2#12 THHN/THWN IN 3/4" CONDUIT. ALL BRANCH CIRCUITS FOR 120V IF GREATER THAN 100 FEET SHALL BE ONE SIZE LARGER MINIMUM, AND FOR 277V IF MORE THAN 200 FEET ONE SIZE LARGER MINIMUM (BOTH TO MEET VOLTAGE DROP REQUIREMENTS) " " DENOTES GROUND CONDUCTOR TO MATCH CIRCUIT WIR					
— PNL-1 "PNL" INDICATES PANEL DESIGNATION, "1" INDICATES CIRCUIT NUMBER CIRCUIT WIRE SHALL BE MINIMUM 2#12 THHN/THWN IN 3/4" CONDUIT, U COMPUTER CIRCUIT SHALL ALSO BE PROVIDED WITH A SEPARATE NEU						
<u> </u>	LIGHTING AND POWER PANEL BOARD, FLUSH MOUNTED IN WALL WITH COVER.					
	LIGHTING AND POWER PANEL BOARD, SURFACE MOUNTED ON WALL.					
	SAME AS ABOVE BUT WITH GUTTER TAP.					
***************************************	WIRING TROUGH/SPLICE BOX, SIZE AS REQUIRED.					
	NEW UNIT VENTILATOR					
\$	SINGLE POLE TOGGLE LINE-VOLTAGE SWITCH MOUNTED AT 48" A.F.F.					
· 	REFER TO LIGHTING DWGS FOR LOCATION OF SWITCHES.					
\$ _a	SINGLE POLE TOGGLE LINE-VOLTAGE SWITCH MOUNTED AT 48" A.F.F. SUBSCRIPT DENOTES LIGHTING FIXTURES CONTROLLED 'K' INDICATES KEY OPERATED SWITCH '3' INDICATES THREE-WAY SWITCH 'VS' INDICATES INTEGRATED OCCUPANCY SENSOR (IN VACANCY MODE). 'OC' INDICATES INTEGRATED OCCUPANCY SENSOR 'PL' INDICATES WITH PILOT LIGHT SWITCH 'LT' INDICATES LIGHTED SWITCH 'a' INDICATES LIGHTING FIXTURES CONTROL "D" INDICATES DIMMING CONTROL 'e' INDICATES CONTROL OF EMERGENCY LIGHTING FIXTURE WITHIN THE ROOM OR SPACE INDICATED.					
	REFER TO LIGHTING DWGS FOR LOCATION OF SWITCHES.					
\$ _{La}	LOW VOLTAGE PUSHBUTTON SWITCH MOUNTED AT 48" A.F.F. SUBSCRIPT INDICATES LIGHTING FIXTURES CONTROL.					
MP MOTOR STARTER SNAP ACTION TOGGLE SWITCH WITH THERMO OVERLOAD. "WP" INDICATES WEATHER PROOF						
⊕ ^F	DUPLEX THREE WIRE GROUNDED RECEPTACLE, 20A, 125V. (NEMA 5-20R) MOUNTED 18" A.F.F. U.O.I. SUBSCRIPT "F" INDICATES FURNITURE MOUNTED. SUBSCRIPT "K" INDICATES SAFETY TYPE.					
	DUPLEX THREE WIRE GROUNDED RECEPTACLE, 20A, 125V. (NEMA 5-20R) WITH "GFI" GROUND FAULT INTERRUPTER STANCION MOUNTED 18" A.F.F. U.O.I.					
	MOTOR STARTER W/ PUSH BUTTON STATIONS AND H-O-A. NOTED STARTER RATING AS PER HORSEPOWER INDICATED.					
30 2 U	— SWITCH RATING — FUSE SIZE ("U" IF UNFUSED) — POLES DISCONNECT SWITCH, RATING AND FUSING NOTED. HORSEPOWER RATING AS REQUIRED BY MOTOR LOAD. 'WP' INDICATES WEATHERPROOF NEMA 4X ENCLOSURE, OTHERWISE NEMA-1. SUBSCRIPT "L" INDICATES LOCKABLE TYPE.					
(5)	MOTOR. HORSEPOWER INSCRIBED, PHASES INDICATED BY CIRCUITING.					
•	CIRCUIT BREAKER.					
	FUSED SWITCH, RATING AND FUSING INDICATED.					
• •	UNFUSED SWITCH.					
•	AUTOMATIC TRANSFER SWITCH.					
——————————————————————————————————————	GROUND					
J	JUNCTION BOX, SIZE IS REQUIRED.					
	MOTORIZED DAMPER					
	METER					

GENERAL NOTES:

- 1. FOR AN EXPLANATION OF ABBREVIATIONS AND SYMBOLS USED ON THESE DRAWINGS, SEE THE ABBREVIATION LIST AND SYMBOLS LIST ON THIS SHEET.
- 2. THE CONTRACTOR SHALL CHECK THE LOCATION. NUMBER AND SIZE OF ALL CHASES PROVIDED ON THE CONSTRUCTION PLANS AND ARRANGE FOR ANY CHASES REQUIRED FOR CABINET OR BOXES.
- 3. THE CONTRACTOR SHALL COORDINATE WITH THE HVAC, PLUMBING, ARCHITECTURAL AND STRUCTURAL TRADES FOR EXACT LOCATIONS OF MOTORS AND EQUIPMENT. IN ORDER TO AVOID INTERFERENCE.
- 4. THE CONTRACTOR SHALL CHECK WITH THE HVAC TRADE CONCERNING THE LOCATION OF STEEL PLATE FIRE STOPS IN CORRIDORS AND HUNG CEILINGS AND SHALL FURNISH 20. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE THE HVAC TRADE WITH SIZES AND LOCATIONS OF OPENINGS NECESSARY TO ACCOMMODATE THE ELECTRICAL CONDUITS PIERCING THE FIRE STOPS.
- 5. IN UNFINISHED PORTIONS OF THE BUILDING, SUCH AS BOILER ROOM, FAN ROOMS, PIPE SPACES, ETC., LOCATIONS OF CONDUIT AND OUTLETS ARE APPROXIMATE AND SHALL CLEAR PIPING AND ALL OTHER CONSTRUCTION. CONDUIT IN THESE PORTIONS OF THE 22. NO CONDUIT IN THE BUILDING SHALL BE IN CONTACT WITH THE EARTH UNLESS BUILDING SHALL BE RUN EXPOSED.
- 6. IN THE BOILER ROOM, SYSTEM CONDUITS, SUCH AS FOR LIGHTING AND POWER FEEDERS, LOW VOLTAGE, FIRE SIGNAL, ETC., SHALL NOT BE RUN OVER BOILERS.
- 7. NO CONDUIT SHALL BE RUN IN ANY FLOOR IN CONTACT WITH THE EARTH UNLESS OTHERWISE DIRECTED ON THE PLAN. IN SUCH AREAS, CONDUIT FOR MOTORS AND STARTERS SHALL BE RUN OVERHEAD. SUPPORTED AS REQUIRED.
- TYPE IN FINISHED AREAS (AT NEW WALLS/PARTIONS), UNLESS OTHERWISE NOTED. THE JUNCTION AND PULL BOXES SHALL BE LOCATED TO SUIT CONDUIT ENTRANCE, BUT SHALL, IN ALL CASES, BE LOCATED TO AVOID INTERFERENCE WITH EQUIPMENT FROM
- 9. WHERE RECESSED FIXTURES ARE INDICATED ON THESE PLANS AND WET PLASTER CEILING CONSTRUCTION IS USED, PLASTER FRAMES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR WITH OTHER TYPES OF HUNG CEILING CONSTRUCTION. LIGHTING FIXTURES SHALL BE APPROPRIATE TO MEET THE REQUIREMENTS OF THAT CEILING CONSTRUCTION.
- 10. UNLESS OTHERWISE NOTED ON FLOOR PLANS OR IN FLOOR PLAN NOTES, SWITCHES SHALL BE INSTALLED AT 4'-0" ABOVE FINISHED FLOOR. WHERE SWITCH HEIGHTS ARE GIVEN ON THESE DRAWINGS FOR AREAS IN WHICH THERE ARE TILE WAINSCOTS, SUCH AS TOILETS, LOCKER ROOMS, ETC. THE CONTRACTOR SHALL ADJUST SWITCH HEIGHTS, IF NECESSARY TO AVOID INTERFERENCE WITH THE WAINSCOT.
- 11. CONTRACTOR SHALL PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS ON NORMAL AND EMERGENCY CIRCUITS.
- 12. PROVIDE FIRE STOP SEALS TO ALL PENETRATIONS OF ALL EXISTING FLOORS, SLABS, AND WALLS/PATITIONS; AND ALL NEW FIRE RATED WALLS & PARTITIONS.
- 13. PROVIDE DEFLECTION FITTINGS AT ALL REQUIRED CROSSINGS OF EXPANSION POINTS. 31. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH OTHER TRADES
- 14. ALL CIRCUITS CONTAINING GFI OUTLETS, CKTS FOR COMPUTERS AND/OR PERIPHERALS AND RELATED EQUIPMENT AND CIRCUITS RECOMMENDED BY THE MANUFACTURERS SHALL HAVE A SEPARATE DEDICATED NEUTRAL.
- 15. PROVIDE COLOR CODING FOR BRANCH CIRCUITS & FEEDERS AS FOLLOWS FOR 120/208V. CONDUCTORS:

BLACK PHASE "A" RED PHASE "B" BLUE PHASE "C" **GREEN GROUNDING**

EXISTII

SYMBOL

[[[]]

- 16. PLACEMENT OF ALL ELECTRICAL DEVICES MUST BE COORDINATED WITH FURNITURE LAY-OUTS. THE ELECTRICAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR SUBMITTING SHOP DWGS FOR LOCATION OF ALL ELECTRICAL DEVICES. THE SHOP DWGS MUST INDICATE THE MOUNTING HEIGHTS & CENTER LINE DISTANCE FROM THE NEAREST
- 17. ALL COMPONENTS SHOWN ON RISER DIAGRAMS, BUT NOT ON THE PLAN OR VICE VERSA, SHALL BE INCLUDED AS IF SHOWN ON BOTH.
- 18. CONTRACTOR SHALL NOT INSTALL MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A RACEWAY UNLESS OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS.
- 19. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL TRADES CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT.
- OF DEVICES EXCEPT FOR EXIT SIGNS.
- 21. RIGID NONMETALLIC CONDUIT (RNMC) SHALL NOT BE INSTALLED WITHIN THE BUILDING FOOTPRINT. UNLESS OTHERWISE INDICATED.
- OTHERWISE NOTED.
- 23. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING EACH CKT IN ALL MANHOLES, HAND HOLES, WIRE WAYS & ALL OTHER ENCLOSURES & AT ALL TERMINATION.
- 24. ALL SERVICE ENTRANCE CONDUITS ARE TO BE PITCHED AS REQUIRED AND SEALED AT THE POINT OF ENTRY TO THE BUILDING IN ORDER TO AVOID WATER PENETRATION TO THE BUILDING THROUGH THESE CONDUITS.
- 8. PULL AND JUNCTION BOXES SHALL BE SURFACE TYPE IN UNFINISHED AREAS AND FLUSH 25. FINAL LOCATION OF ALL ELECTRICAL EQUIPMENTS, DEVICES SHALL BE COORDINATED AT FIELD WITH ALL OTHER TRADES AND WITH EXISTING BUILDING ELEMENTS, PIPES, EQUIPMENTS, DEVICES ETC. IN ORDER TO HAVE CODE COMPLIANT INSTALLATION.
- OTHER TRADES AND SHALL BE LOCATED SO THAT COVERS ARE READILY ACCESSIBLE. 28. ROUTING OF ELECTRICAL CONDUITS IF SHOWN IN THE DRAWINGS ARE TENTATIVE. THE CONTRACTOR IS RESPONSIBLE TO FINALIZE THE ROUTING OF ALL ELECTRICAL CONDUITS AT FIELD IN COORDINATION WITH ALL OTHER TRADES AND EXISTING BUILDING ELEMENTS, STRUCTURES, PIPES, EQUIPMENTS, & DEVICES ETC. FOR CODE COMPLIANT INSTALLATION.
 - 29. THE ELECTRICAL CONTRACTOR IS REQUIRED TO COORDINATE WITH THE MECHANICAL CONTRACTOR DURING THE MECHANICAL EQUIPMENT SUBMITTAL REVIEW PROCESS IN ORDER TO VERIFY THE REQUIREMENT OF INSTALLING NEUTRAL WIRE IN THE CONDUIT TO FEED ALL HVAC EQUIPMENT SUCH AS ROOF TOP UNIT PRIOR TO INSTALLATION OF THE WIRES IN CONDUIT.
 - 30. THE FINAL LOCATION OF ALL ELECTRICAL RECEPTACLE OUTLETS THROUGHOUT THE BUILDING SHALL BE COORDINATED WITH FURNITURE AND ALL OTHER TRADES SO THAT ALL RECEPTACLES WILL BE ACCESSIBLE FOR USE. THE FINAL LOCATION OF THE RECEPTACLES SHOWN AT THE WINDOW SIDE WALL SHALL BE COORDINATED WITH HEATING EQUIPMENT AND BOOK SHELF; THE CONTRACTOR MAY NEED TO ADJUST THE HEIGHT OF THE RECEPTACLE, IF NECESSARY TO AVOID THE INTERFACE WITH THE HEATING EQUIPMENT OR ANY OTHER FURNITURE/BUILDING ELEMENTS.
 - AT FIELD SO THAT NO FOREIGN SYSTEM SUCH AS PIPING, DUCT, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE RUN OVER THE ELECTRICAL EQUIPMENT INSTALLATION.
 - 32. THE CONTRACTOR IS REQUIRED TO PERFORM CONTINUITY AND INSULATION RESISTANCE TEST BY MEGGER FOR ALL FEEDERS AND BRANCH CIRCUITS BEING INSTALLED AND BEING MODIFIED UNDER THIS PROJECT.

ELECTRICAL CONSTRUCTION NOTES

- CONTRACTOR SHALL MAINTAIN UNINTERRUPTED POWER SUPPLY TO THE SCHOOL BUILDING DURING THE CONSTRUCTION. POWER IS TO BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE INSTRUCTED, ALONG WITH THE ADEQUATE POWER SUPPLY FOR THE CONCURRENT CONSTRUCTION AND MAINTENANCE PROJECTS.
- THE MAINTENANCE OF POWER SUPPLY INCLUDES BOTH THE OVERALL POWER SERVICE TO THE BUILDING AS WELL AS LOCAL POWER SUPPLY TO THE SCHOOL AREAS TEMPORARILY AFFECTED BY THE WORK OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH THE SCHOOL PRINCIPAL AND CUSTODIAN ALONG WITH THE AUTHORITY PROJECT OFFICER.
- PROVIDING UNINTERRUPTED POWER SERVICE TO THE ENTIRE BUILDING AND POWER SUPPLY TO SCHOOL AREAS TEMPORARILY AFFECTED BY THE WORK OF THIS CONTRACT SHALL BE ACCOMPLISHED BY VARIOUS MEANS SUCH AS TEMPORARY BYPASS FEEDERS, TEMPORARY SWITCHES SUPPLYING
- 4. THE CONTRACTOR SHALL ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVERTIME, IF REQUIRED, TO ASSURE THAT SERVICES WILL BE SHUTDOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY DISCONNECTIONS/RECONNECTIONS TO EXISTING WORK.
- 5. THE CONTRACTOR SHALL GIVE THIRTY DAYS WRITTEN NOTICE IN ADVANCE TO THE SCA OF ANY REQUIRED SHUTDOWN, INCLUDING THE ESTIMATED PERIOD.
- 6. THE CONTRACTOR IS REQUIRED TO COORINATE WITH THE SCHOOL FACILITY TO ARRANAGE FOR A METERED POWER FOR CONSTRUCTION PURPOSE BASED ON A RATE DEFINED BY THE FACILITY. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY CONSTRUCTION POWER.

ELECTRICAL DEMOLITION NOTES

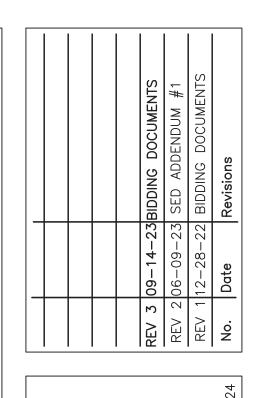
- THE DEMOLITION WORK SHALL BE CARRIED ON IN EVERY RESPECT IN A THOROUGH AND WORKMANLIKE MANNER.
- 2. ALL DEMOLITION, REMOVAL, AND DISPOSAL WORK SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE BUILDING CODE AND WITH ALL STATE AND FEDERAL REGULATIONS.
- REMOVE ALL DEBRIS NOT EXPLICITLY DESIGNATED TO BE SALVAGED (TO REMAIN) FROM THE PREMISES AND LEGALLY DISPOSE OFF AWAY FROM PREMISES.
- ITEMS INDICATED TO BE SALVAGED SHALL BE REMOVED EITHER BEFORE DEMOLITION OR DURING THE PROCESS OF THE WORK. STORED AND PROTECTED ON THE SITE IN A LOCATION DESIGNATED BY THE AUTHORITY'S REPRESENTATIVE. THESE ITEMS WILL BE IDENTIFIED AND RETAINED BY THE AUTHORITY.
- CAREFULLY REMOVE AND PROTECT ALL ITEMS TO BE SAVED AND REUSED AS INDICATED ON DRAWINGS. REPLACE ANY ITEMS THAT ARE DAMAGED BY REMOVAL AT YOUR OWN COST, NOTIFY THE AUTHORITY IN WRITING OF ANY ITEM THAT IS DAMAGED PRIOR TO REMOVAL SO THAT THEY MAY ASCERTAIN
- 5. PROTECT MATERIALS, SURFACES AND STRUCTURE, WHICH ARE TO REMAIN, FROM DAMAGE; IF DAMAGE OCCURS, REPAIR OR REPLACEMENT SHALL BE MADE BY THE CONTRACTOR, TO THE SATISFACTION OF THE AUTHORITY, AND AT THE EXPENSE OF THE CONTRACTOR.
- DISCONNECT, REMOVE AND RELOCATE ANY ELECTRICAL EQUIPMENT NOT SHOWN ON THESE DRAWINGS AS PART OF THIS CONTRACT, BUT INTERFERES WITH THE WORK UNDER THIS CONTRACT. THIS WORK SHALL NOT BE CONSIDERED EXTRA AND SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- 3. VISIT AND EXAMINE CAREFULLY THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT ATTEND THE EXECUTION OF THIS WORK
-). RELOCATE AND/OR ALTER THE EXISTING BUILDING COMPONENTS AS DIRECTED BY AUTHORITY'S REPRESENTATIVE. ALL RELOCATION OR ALTERATIONS TO BUILDING SHALL BE RESTORED TO THEIR ORIGINAL WORKING CONDITIONS AFTER SUCH RELOCATION OR ALTERATION WORK.
- 10. AT THE COMPLETION OF DEMOLITION WORK, ALL RUBBISH, DEBRIS AND WASTE MATERIALS SHALL BE REMOVED BY THE CONTRACTOR AND THE PREMISES SHALL BE LEFT IN CLEAN CONDITION.
- 11. THE CONTRACTOR SHALL DISCONNECT THE CIRCUIT WIRING NOT IN USE AND SHALL REMOVE ALL NECESSARY WIRING MATERIALS, INCLUDING EXPOSED CONDUITS AND JUNCTION BOXES WHICH IMPEDE THE NEW WORK.
- 12. MAINTAIN CONTINUITY FOR ALL EQUIPMENT TO REMAIN. PROVIDE ALL REQUIRED ACCESSORIES, WIRING AND CONDUIT AS REQUIRED.
- 13. SUBSTANTIAL JOB COMPLETION INCORPORATES DEMOLITION OF EXISTING SYSTEMS IN CONTRACT.
- 14. THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
- 15. THE CONTRACTOR IS REQUIRED TO COORDINATE WITH GC AND ALL OTHER TRADES TO REVIEW THE EXISTING ELECTRICAL COMPONENTS, CONDUITS, DEVICES, PULL BOX, JUNCTION BOX ETC. THAT ARE ASSOCIATED WITH THE WALL THAT ARE BEING DEMOLISHED OR RESURFACED. REROUTE THE CONDUITS AND RELOCATE THOSE ELECTRICAL COMPONENTS AS REQUIRED AND FOR THE COMPLETION OF GC WORK. EXTEND CONDUIT WIRING AS REQUIRED TO REROUTING. MAINTAIN CIRCUIT CONTINUITY OF THE DEVICES THAT ARE BEING AFFECTED.

NG LIGHTING AND POWER SYSTEM LIST							
DESCRIPTION							
	EXISTING JUNCTION BOX						
	EXISTING DISCONNECT SWITCH/MOTOR STARTER						
EXISTING PANEL							
EXISTING UNIT VENTILATOR							
)	EXISTING EXIT LIGHT, 4X4, 1X4 LIGHT FIXTURE						
EXISTING SMOKE DETECTOR							
EXISTING IPDVS CAMERA							
	EXISTING CEILING MOUNTED SPEAKER						

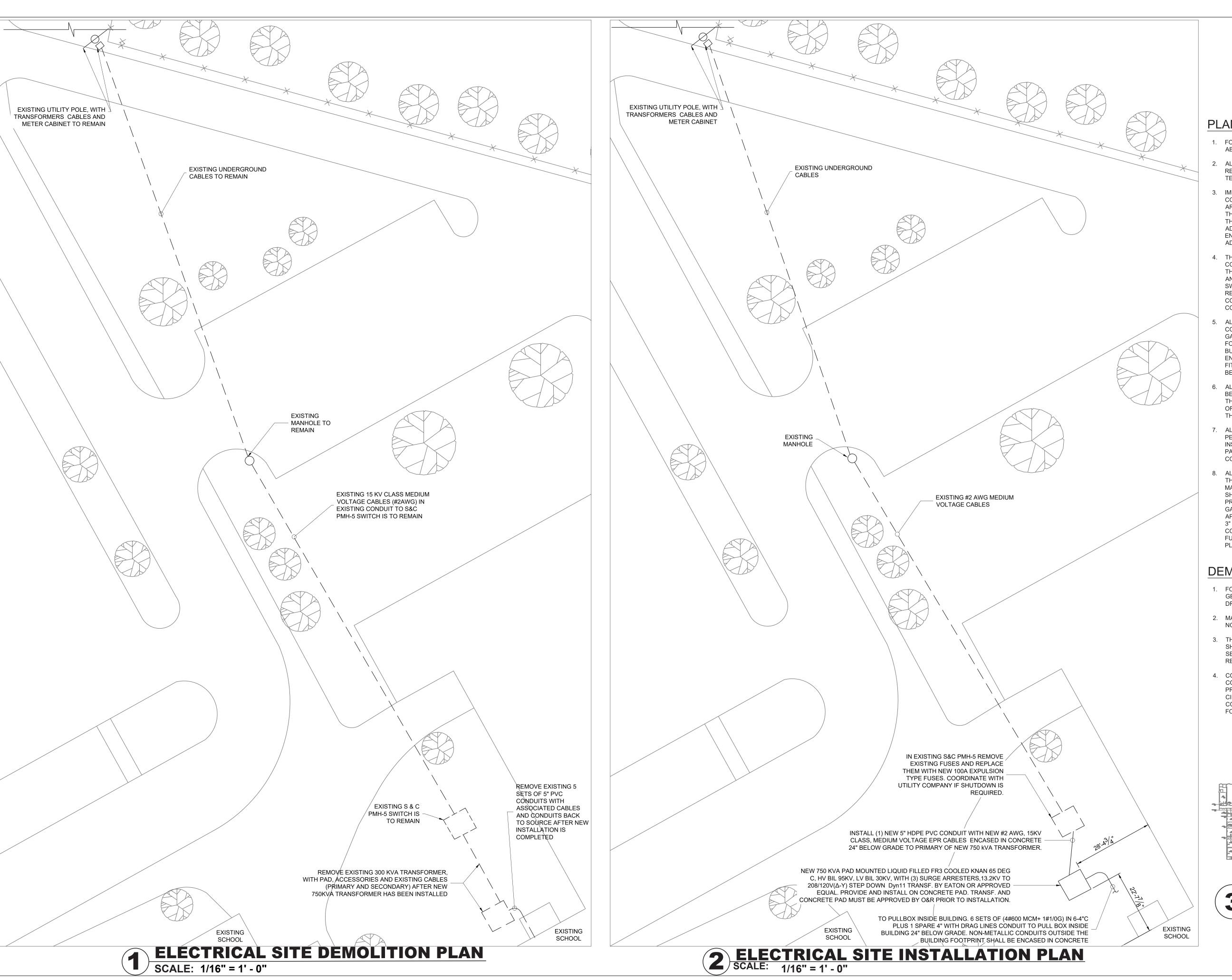
	LIGHTING SYMBOL LIST							
SYMBOL DESCRIPTION								
A	RECESSED MOUNTED 2'x4' LED LENS LIGHTING FIXTURE. INSCRIPTION DENOTES FIXTURE TYPE. SUBSCRIPTION DENOTES SWITCH CONTROL. TRIANGLE SHADE INDICATES EMERGENCY LIGHTING.							
RECESSED MOUNTED 2'x2' LED LENS LIGHTING FIXTURE. INSCRIPT DENOTES FIXTURE TYPE. SUBSCRIPTION DENOTES SWITCH CONTEST TRIANGLE SHADE INDICATES EMERGENCY LIGHTING.								
A	PENDANT/RECESSED/WALL MOUNTED 1'x4' LED LIGHTING FIXTURE. INSCRIPTION DENOTES FIXTURE TYPE. SUBSCRIPTION DENOTES SWITCH CONTROL. TRIANGLE SHADE INDICATES EMERGENCY LIGHTING.							
CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR, AUTOMATIC 'ON'/'OFF'.								
CEILING OR WALL MOUNTED EXIT SIGNS, NUMBER OF FACES AND ARROWS AS SHOWN ON PLANS. 8'-0" WHERE CEILING HEIGHT ALLOW MINIMUM OF 6" CLEARANCE BETWEEN CEILING & TOP LIGHT, OTHERW MOUNT EXIT LIGHT SO THAT ITS TOP IS 6" BELOW FINISHED CEILING. ADJUST HEIGHT & CLEARANCES AS REQUIRED TO SUIT INSTALLATION OVER DOORS.								

A	AMPERE	KWH	KILOWATT HOUR
AC	ALTERNATING CURRENT	LP	LIGHTING PANEL
ACCU	A/C CONDENSING UNIT	LS	LOUDSPEAKER
AF	FUSE RATING IN AMPS	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AHU	AIR HANDLING UNIT	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MER	MECHANICAL EQUIPMENT ROC
AS	SWITCH RATING IN AMPS	MIC	MICROPHONE
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUG ONLY
A/C	AIR CONDITIONING	MTD	MOUNTED
С	CONDUIT	N	NEUTRAL
СВ	CIRCUIT BREAKER	N.C.	NORMALLY CLOSED
CLG	CEILING	N.O.	NORMALLY OPEN
CKT(S)	CIRCUIT(S)	Р	POLE(S)
COL	COLUMN	PB	PULL BOX
DHWH	DOMESTIC HOT WATER HEATER	PNL	PANEL
DSP	DUPLEX SUMP PUMP	PPP	PORT PATCH PANEL
DWBS	DUPLEX WATER BOOSTER PUMP	POS	POINT OF SALE
DWG	DRAWING	PP	POWER PANEL
E	EXISITNG TO REMAIN	PWR	POWER
ER	EXISITNG TO BE REMOVED	RC	REMOTE CONTROL
ERR	EXISITNG TO BE RELOCATED	REL	RELOCATED
EBBH	ELECTRIC BASEBOARD HEATER	RGC	RIGID GALVANIZED CONDUIT
EC	EMPTY CONDUIT	RTU	ROOF TOP UNIT
ECC	ELECTRIC CABINET CONVECTOR	SECT	SECTION
ECH	ELECTRIC CABINET HEATER	SP	SPARE
EF	EXHAUST FAN	SPF	SMOKE PURGE FAN
EMR	ELEVATOR MECHANICAL ROOM	SPR	SPARE
EUH	ELECTRIC UNIT HEATER	STD	STANDARD
EXH	EXHAUST	SUR	SURFACE
FL	FLOOR	SW	SWITCH
FPB	FAN POWER BOX	SWBD	SWITCHBOARD
G	GUARD	TEF	TOILET EXHAUST FAN
GND	GROUND	TEL	TELEPHONE
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
IG	ISOLATED GROUND	TYP	TYPICAL
IWB	INTERACTIVE WHITE BOARD	UOI	UNLESS OTHERWISE INDICATE
JB	JUNCTION BOX	V	VOLT
KEF	KITCHEN EXHAUST FAN	VAV	VARIABLE AIR VOLUME
KVA	KILOVOLT AMPERE	W	WATT
KW	KILOWATT	WP	WEATHER PROOF

NOTE - ALL THE ABOVE ABBREVIATIONS MAY NOT BE USED



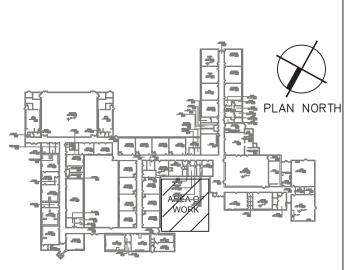




- 1. FOR SYMBOL LIST, GENERAL NOTES AND ABBREVIATIONS REFER TO DWG. E001 & E002.
- 2. ALL UTILITY WORK SHALL BE PROVIDED AS REQUIRED AND APPROVED BY THE TELEPHONE, AND ELECTRICAL COMPANIES.
- 3. IMMEDIATELY UPON AWARD OF THE CONTRACT, THE CONTRACTOR SHALL ARRANGE FOR A MEETING THE SITE WITH THE UTILITY COMPANIES TO COORDINATE THE INSTALLATION OF THE NEW SERVICE. ADVISE THE FACILITY AND RESIDENT ENGINEER AT LEAST ONE (1) WEEK IN ADVANCE OF THE MEETING.
- 4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE FINAL INSTALLATIONS OF THE BUILDING MAIN ELECTRICAL SERVICE AND FEEDERS TO THE ELECTRICAL SERVICE SWITCH, TRANSFORMER ETC. PROVIDE ALL REQUIREMENTS FOR DEVICES AND COMPONENTS AS PER THE UTILITY COMPANY'S REQUIREMENTS.
- ALL ELECTRIC SERVICE ENTRANCE
 CONDUCTORS SHALL BE INSTALLED IN RIGID
 GALVANIZED CONDUIT INSIDE THE BUILDING
 FOOT PRINT. CONDUITS OUTSIDE THE
 BUILDING FOOTPRINT SHALL BE IN HDPE AND
 ENCASED IN CONCRETE. PROVIDE ADAPTER
 FITTINGS TO CONVERT FROM HDPE TO RGC
 BEFORE ENTERING THE BUILDING.
- 6. ALL SERVICE ENTRANCE CONDUITS ARE TO BE PITCHED AS REQUIRED AND SEALED AT THE POINT OF ENTRY TO THE BUILDING IN ORDER TO AVOID WATER PENETRATION TO THE BUILDING THROUGH THESE CONDUITS.
- 7. ALL CHARGES BY THE UTILITY COMPANIES IN PERFORMING ANY PART OF THE INSTALLATION FOR THE PROJECT SHALL BE PAID BY THE CONTRACTOR AS PART OF THE CONTRACT.
- 8. ALL OPENINGS IN THE BUILDING WALLS FOR THE ENTRANCE OF CONDUITS SHALL BE MADE BY THE USE OF SLEEVES, WHICH SHALL BE GROUTED IN PLACE, WATER PROOFED UTILIZING LINK-SEAL "TYPE GASKETING AND VERMIN-PROOFED BY AN APPROVED SEALING COMPOUND EXTENDING 3" INSIDE MOUTH OF CONDUIT. SPARE CONDUITS BEING INSTALLED NOW FOR FUTURE INCOMING SERVICE SHALL BE PLUGGED AND WATERTIGHT.

DEMOLITION NOTES:

- FOR ELECTRICAL SYMBOLS & LEGENDS, GENERAL NOTES AND ABBREVIATIONS DRAWING LIST REFER TO DWG E001.00
- 2. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY DEMOLITION.
- 3. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH THE SCHOOLS FIELD REPRESENTATIVE AND THE FACILITY.
- 4. CONTRACTOR MUST FIELD VERIFY ALL CONNECTIONS PRIOR TO REMOVAL. PROTECT ALL FEEDER AND BRANCH CIRCUITS SERVING OTHER AREAS. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY OUTAGES.



3 ELECTRICAL KEY PLAN SCALE: N.T.S.

		REV 3 09-14-23 BIDDING DOCUMENTS	REV 2 06-09-23 SED ADDENDUM #1	REV 1 12-28-22 BIDDING DOCUMENTS	
		09-14-23	06-09-23	12-28-22	040
		REV 3	REV 2	REV 1	Q

REG. EXP. DATE: 04-30-24

Project No. 42052
Scale
AS NOTED
Date

chanical PEDERSEN, INC 2 EXECUTIVE BOULEVARD SULTE 2022 SUFFERN, NY 10901

CREENMAN

CREENMAN

CREENMAN

PEDERSEN, INC 2 EXECUTIVE BOULEVARD SULTE 202

SUTTE 202

SUTTE 202

SUTTE 202

SUTTE 202

REPLACEMENT AT
FARLEY
ELEMENTARY
SED # 50-62CHO8L0-003-011

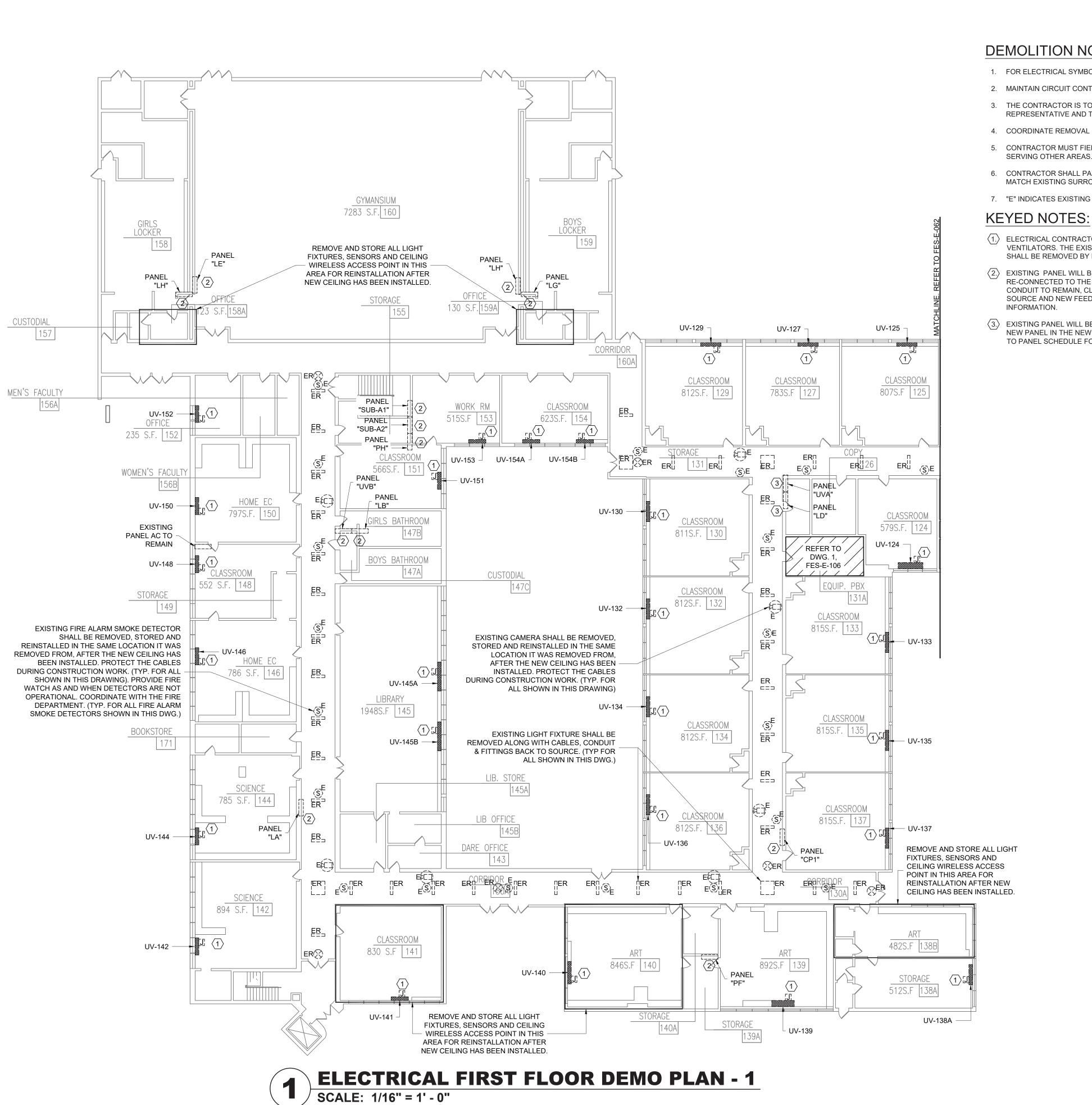


Prawing litle

ELECTRICAL SITE

PLAN

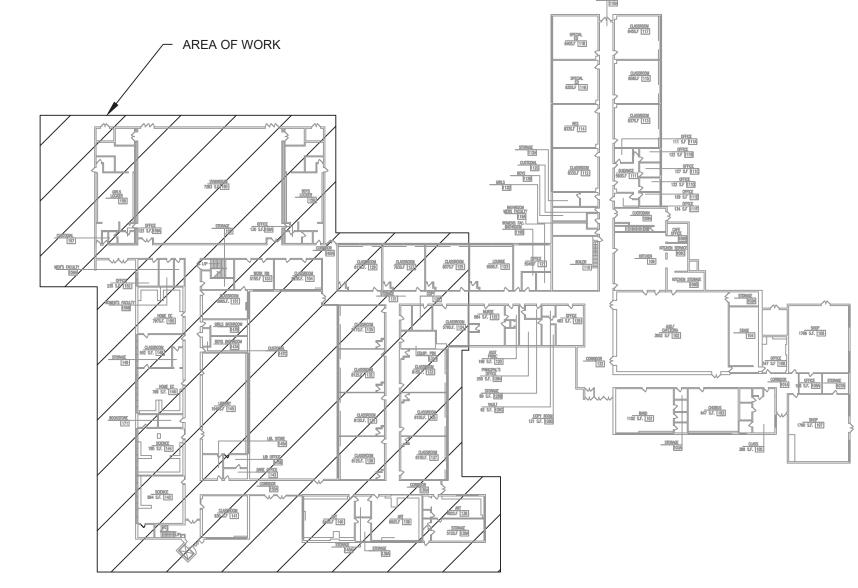
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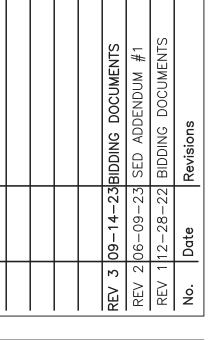
DEMOLITION NOTES:

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- 2. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY DEMOLITION.
- 3. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH THE SCHOOLS FIELD REPRESENTATIVE AND THE FACILITY.
- 4. COORDINATE REMOVAL OF POWER TO MECHANICAL EQUIPMENT WITH THE RESPECTIVE CONTRACTOR.
- 5. CONTRACTOR MUST FIELD VERIFY ALL CONNECTIONS PRIOR TO REMOVAL. PROTECT ALL FEEDER AND BRANCH CIRCUITS SERVING OTHER AREAS. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY OUTAGES.
- 6. CONTRACTOR SHALL PATCH AND PAINT AREAS AFFECTED BY REMOVAL OF ELECTRICAL EQUIPMENT AND CONDUITS TO MATCH EXISTING SURROUNDINGS.
- 7. "E" INDICATES EXISTING TO REMAIN. "ER" INDICATES EXISTING TO BE REMOVED BACK TO SOURCE.

- (1.) ELECTRICAL CONTRACTOR SHALL DISCONNECT AND RETAIN EXISTING WIRING AND JUNCTION BOXES TO EXISTING UNIT VENTILATORS. THE EXISTING WIRING AND CONDUIT TO THE UNIT VENTILATOR SHALL REMAIN. EXISTING UNIT VENTILATORS SHALL BE REMOVED BY MECHANICAL CONTRACTOR.
- (2.) EXISTING PANEL WILL BE REMOVED. ALL EXISTING BRANCH CIRCUITS SHALL BE DISCONNECTED AND RETAINED TO BE RE-CONNECTED TO THE NEW PANEL. EXTEND WIRING AND CONDUIT FOR BRANCH CIRCUIT IF NECESSARY. EXISTING FEEDER CONDUIT TO REMAIN, CLEANED, AND ADAPTED FOR RE-USE. EXISTING FEEDER WIRES TO PANEL MUST BE REMOVED BACK TO SOURCE AND NEW FEEDER WIRING MUST BE PROVIDED IN THE EXISTING CONDUIT. REFER TO PANEL SCHEDULE FOR MORE
- (3.) EXISTING PANEL WILL BE REMOVED. ALL BRANCH CIRCUITS WITHIN THE PANEL WILL BE DISCONNECTED AND EXTENDED TO THE NEW PANEL IN THE NEW ELECTRICAL ROOM. PROVIDE WIRING, CONDUIT AND ACCESSORIES TO MAKE THE EXTENSION. REFER TO PANEL SCHEDULE FOR MORE INFORMATION.





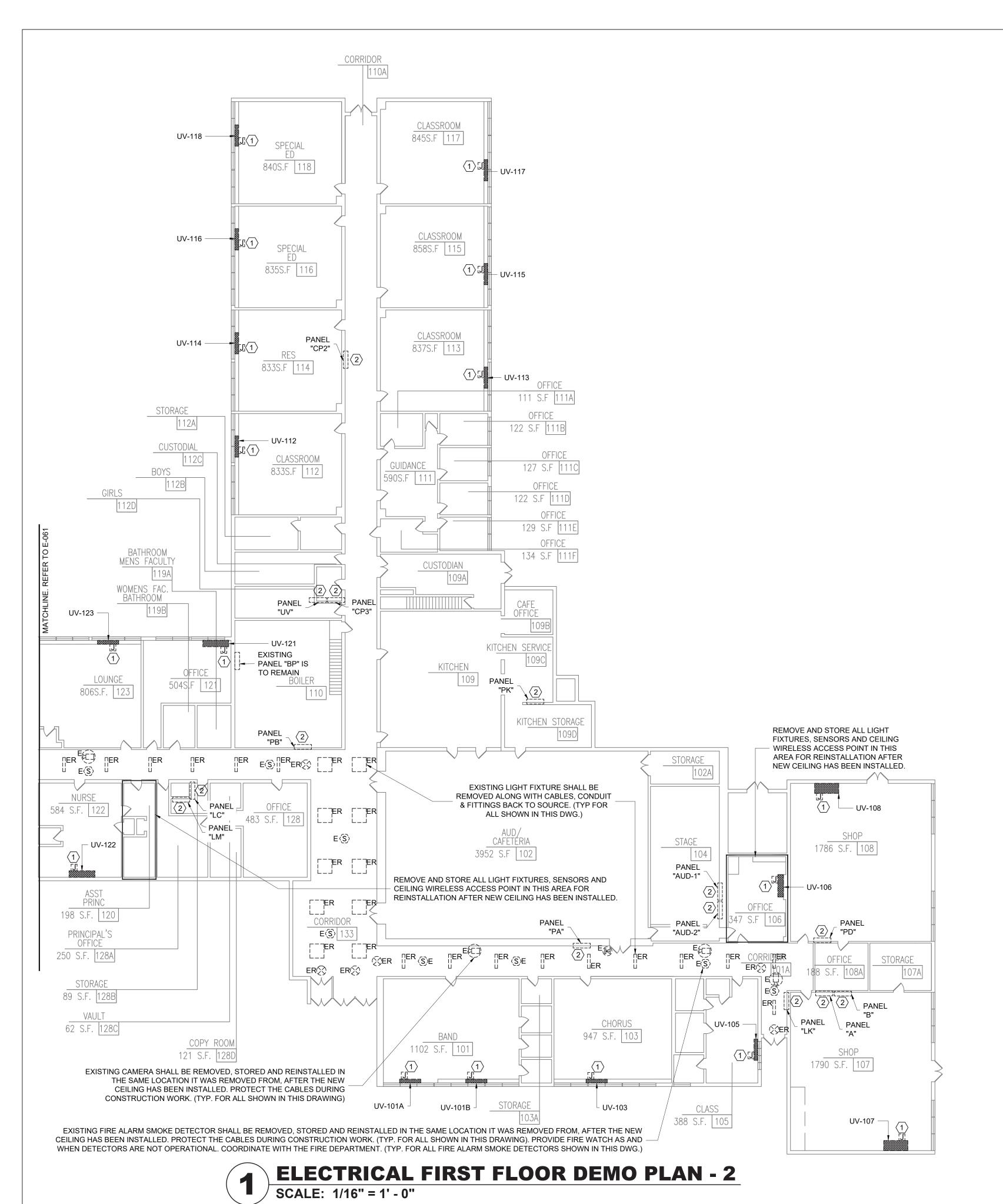




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GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901
Mechanical & Electrical Engineer:	Structural Engineer:



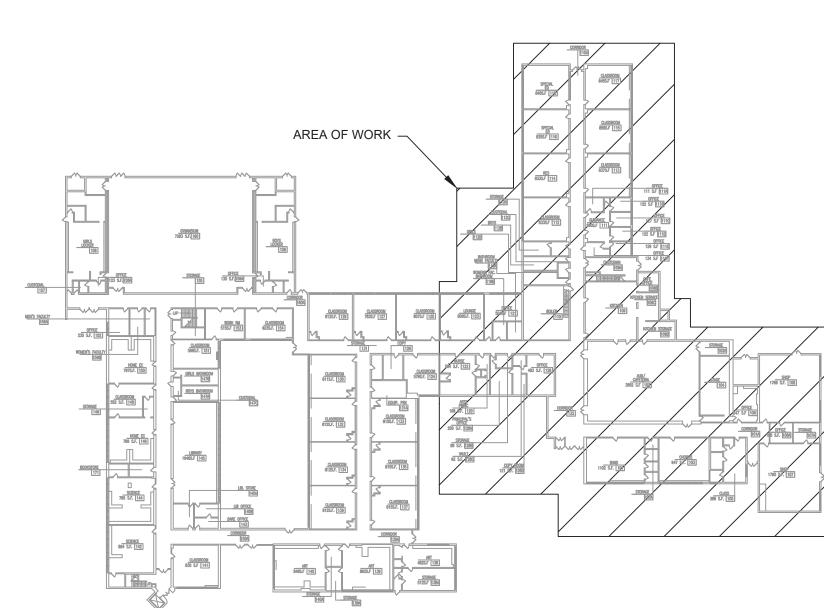


DEMOLITION NOTES:

- 1. FOR ELECTRICAL SYMBOLS & LEGENDS, GENERAL NOTES AND ABBREVIATIONS DRAWING LIST REFER TO
- 2. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY DEMOLITION.
- 3. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH THE SCHOOLS FIELD REPRESENTATIVE AND THE FACILITY.
- 4. COORDINATE REMOVAL OF POWER TO MECHANICAL EQUIPMENT WITH THE RESPECTIVE CONTRACTOR.
- 5. CONTRACTOR MUST FIELD VERIFY ALL CONNECTIONS PRIOR TO REMOVAL. PROTECT ALL FEEDER AND BRANCH CIRCUITS SERVING OTHER AREAS. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY
- 6. CONTRACTOR SHALL PATCH AND PAINT AREAS AFFECTED BY REMOVAL OF ELECTRICAL EQUIPMENT AND CONDUITS TO MATCH EXISTING SURROUNDINGS.

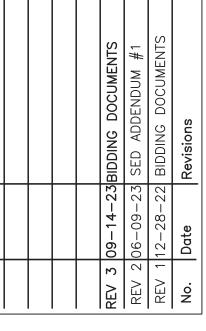
KEYED NOTES:

- (1.) ELECTRICAL CONTRACTOR SHALL DISCONNECT AND RETAIN EXISTING WIRING, JUNCTION BOXES TO EXISTING UNIT VENTILATORS. THE EXISTING WIRING AND CONDUIT TO THE UNIT VENTILATOR SHALL REMAIN. EXISTING UNIT VENTILATORS SHALL BE REMOVED.
- (2.) EXISTING PANEL WILL BE REMOVED. ALL EXISTING BRANCH CIRCUITS SHALL BE DISCONNECTED AND RETAINED TO BE RE-CONNECTED TO THE NEW PANEL. EXTEND WIRING AND CONDUIT FOR BRANCH CIRCUIT IF NECESSARY. EXISTING FEEDER CONDUIT TO REMAIN, CLEANED, AND ADAPTED FOR RE-USE. EXISTING FEEDER WIRES TO PANEL MUST BE REMOVED BACK TO SOURCE AND NEW FEEDER WIRING MUST BE PROVIDED IN THE EXISTING CONDUIT. REFER TO PANEL SCHEDULE FOR MORE INFORMATION.

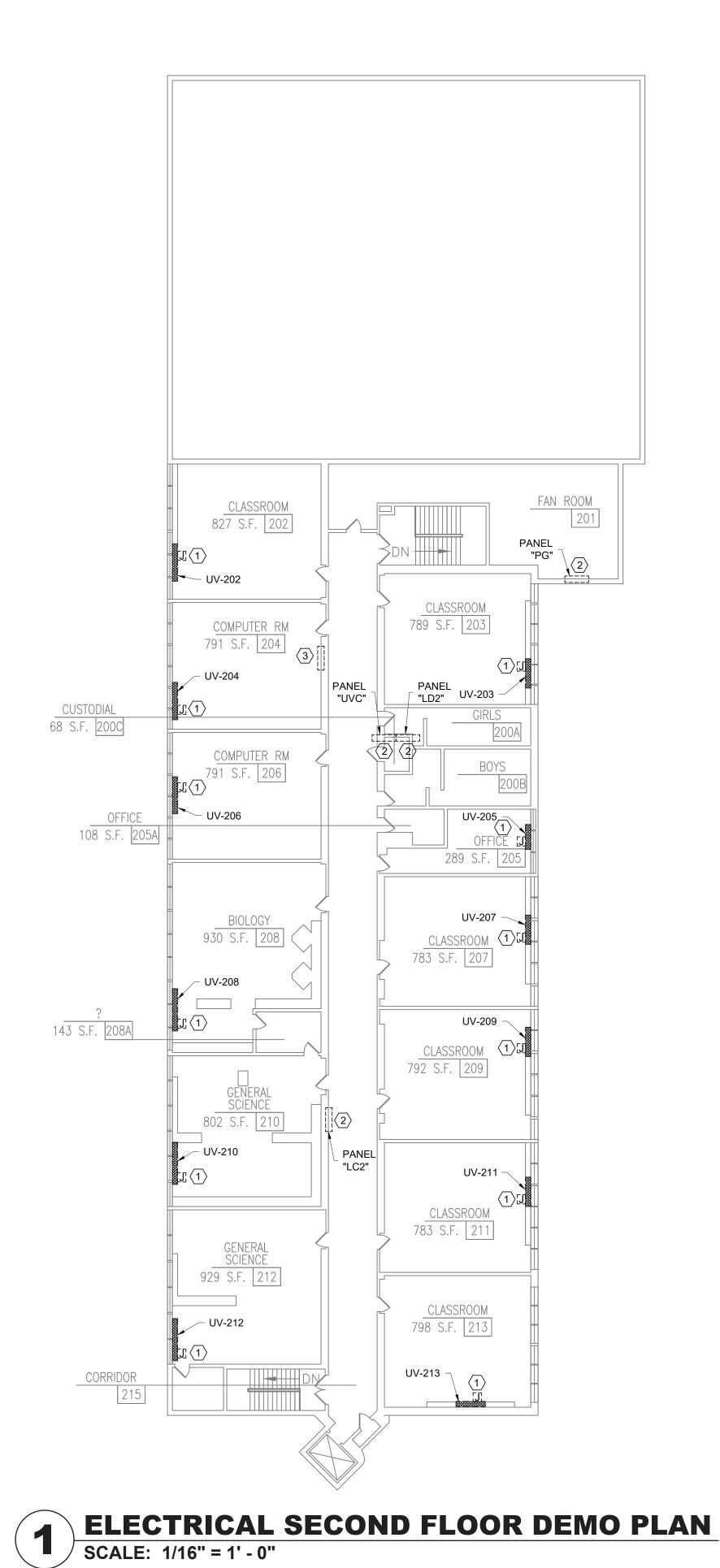










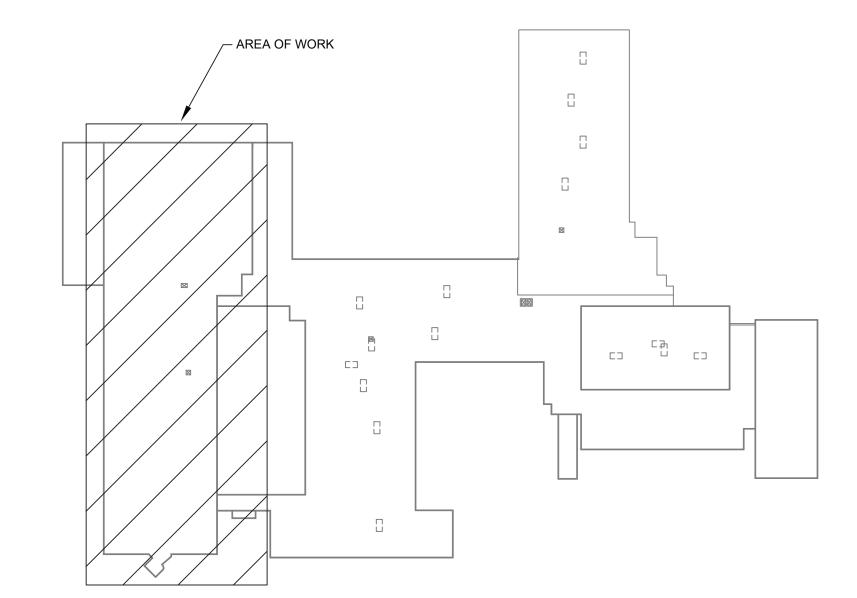


DEMOLITION NOTES:

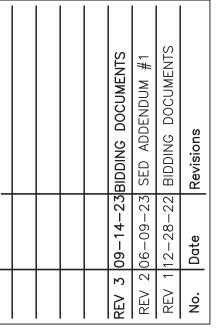
- 1. FOR ELECTRICAL SYMBOLS & LEGENDS, GENERAL NOTES AND ABBREVIATIONS DRAWING LIST REFER TO DWG E001.00
- 2. MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY DEMOLITION.
- 3. THE CONTRACTOR IS TO COORDINATE ALL SHUTDOWNS AND DISRUPTIONS TO NORMAL SERVICES WITH THE SCHOOLS FIELD REPRESENTATIVE AND THE
- 4. COORDINATE REMOVAL OF POWER TO MECHANICAL EQUIPMENT WITH THE RESPECTIVE CONTRACTOR.
- 5. CONTRACTOR MUST FIELD VERIFY ALL CONNECTIONS PRIOR TO REMOVAL. PROTECT ALL FEEDER AND BRANCH CIRCUITS SERVING OTHER AREAS. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY OUTAGES.
- 6. CONTRACTOR SHALL PATCH AND PAINT AREAS AFFECTED BY REMOVAL OF ELECTRICAL EQUIPMENT AND CONDUITS TO MATCH EXISTING SURROUNDINGS.

KEYED NOTES:

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- (3.) EXISTING PANEL TO REMAIN.







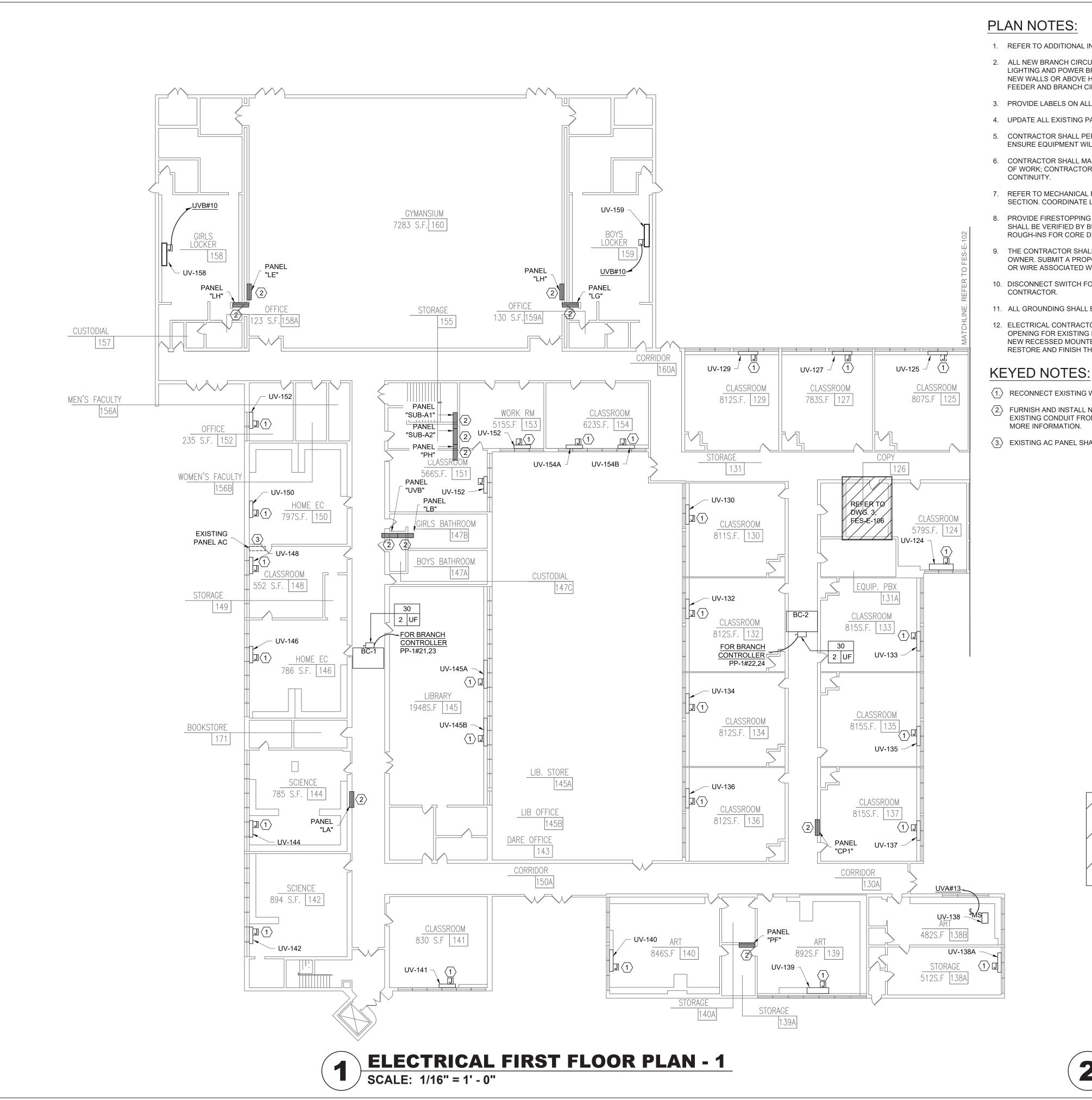


UA	Checked by	SH	Project No.	42052	Scale	AS NOTED	Date	7/29/22

GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901
Mechanical & Electrical Engineer:	Structural Engineer:

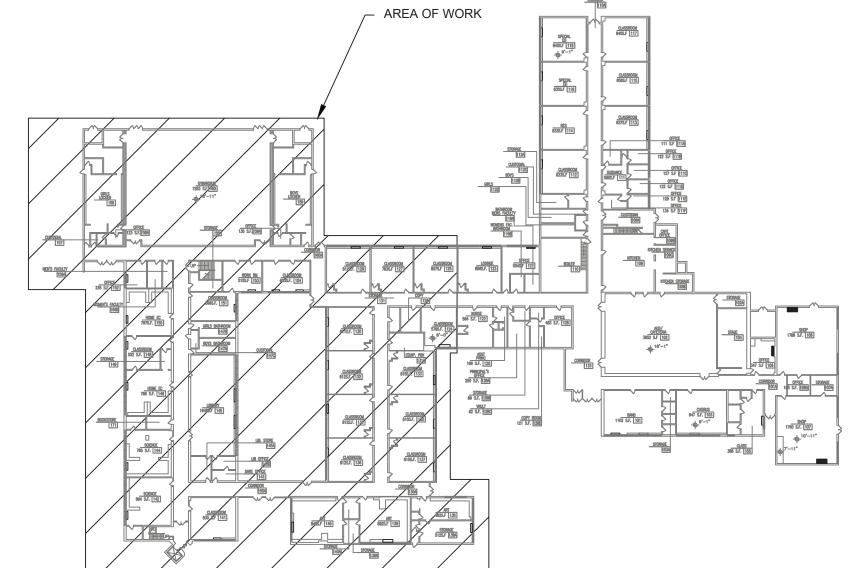


Drawing Title
ELECTRICAL SECOND
FLOOR DEMO PLAN

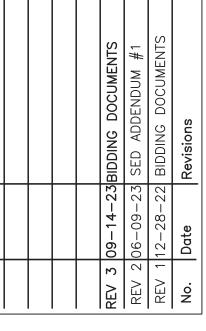


- 1. REFER TO ADDITIONAL INSTALLATION NOTES ON DRAWING E-001.
- 2. ALL NEW BRANCH CIRCUIT SHALL BE RUN WITH MINIMUM OF 2#12+1#12G IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. FOR LIGHTING AND POWER BRANCH CIRCUIT, MC CABLE SHALL BE INSTALLED FOR RECESSED INSTALLATION ONLY, EITHER IN NEW WALLS OR ABOVE HUNG CEILING WHERE POSSIBLE. REFER TO PANEL SCHEDULES IN DRAWING E-201 FOR ALL OTHER FEEDER AND BRANCH CIRCUIT SIZE INFORMATION.
- 3. PROVIDE LABELS ON ALL ELECTRICAL EQUIPMENT INDICATING CIRCUIT ORIGINATION.
- 4. UPDATE ALL EXISTING PANEL DIRECTORIES AFFECTED BY NEW WORK.
- 5. CONTRACTOR SHALL PERFORM AMP PROBE READINGS ON EXISTING SERVICE EQUIPMENT BEFORE AND AFTER WORK TO ENSURE EQUIPMENT WILL NOT BE LOADED BEYOND ITS MAX AMPACITY.
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- 7. REFER TO MECHANICAL PLANS FOR EQUIPMENT TO BE SUPPLIED BY OTHER TRADES AND INSTALLED/WIRED UNDER THIS SECTION. COORDINATE LOCATION OF DEVICES WITH OTHER CONTRACTORS.
- 8. PROVIDE FIRESTOPPING FOR ALL PENETRATIONS TO MATCH EXISTING FIRE RATING WHERE APPLICABLE. ALL CORE DRILLS SHALL BE VERIFIED BY BUILDING REPRESENTATIVE PRIOR TO COMMENCING WORK. XRAY ALL FLOOR SLABS PRIOR TO ROUGH-INS FOR CORE DRILL WORK.
- 9. THE CONTRACTOR SHALL FIELD ROUTE FEEDER FOR NEW POWER PANELS. COORDINATE EXACT ROUTING PATH WITH OWNER. SUBMIT A PROPOSED ROUTING PATH TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO RUNNING ANY CONDUIT OR WIRE ASSOCIATED WITH THIS FEEDER.
- 10. DISCONNECT SWITCH FOR UNIT VENTILATORS IS PROVIDED BY HVAC CONTRACTOR. COORDINATE WITH HVAC
- 11. ALL GROUNDING SHALL BE PROVIDED BY THE CONTRACTOR AS PER NEC 2017.
- 12. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENLARGE AND FUR OUT EXISTING OPENING FOR EXISTING PANELS AND WHERE REQUIRED. ACCOMMODATE THE NEW BACK BOXES AND HOUSING OF THE NEW RECESSED MOUNTED PANELS TO BE INSTALLED. THE ELECTRICAL CONTRACTOR SHALL ALSO ENGAGE THE GC TO RESTORE AND FINISH THE WALLS TO MATCH THE SURROUNDING WALLS OF THE AREA.

- (1.) RECONNECT EXISTING WIRING TO THE NEW UNIT VENTILATORS. EXTEND WIRING AND CONDUIT IF NECESSARY.
- (2) FURNISH AND INSTALL NEW PANEL TO MATCH EXISTING SIZE AND RATING. RUN NEW FEEDER TO MATCH EXISTING SIZE, IN EXISTING CONDUIT FROM SOURCE. RECONNECT ALL EXISTING BRANCH TO NEW PANEL. REFER TO PANEL SCHEDULE FOR
- (3.) EXISTING AC PANEL SHALL BE RE-FEED TO MDB2. REFER TO RISER DIAGRAM FOR MORE INFORMATION.



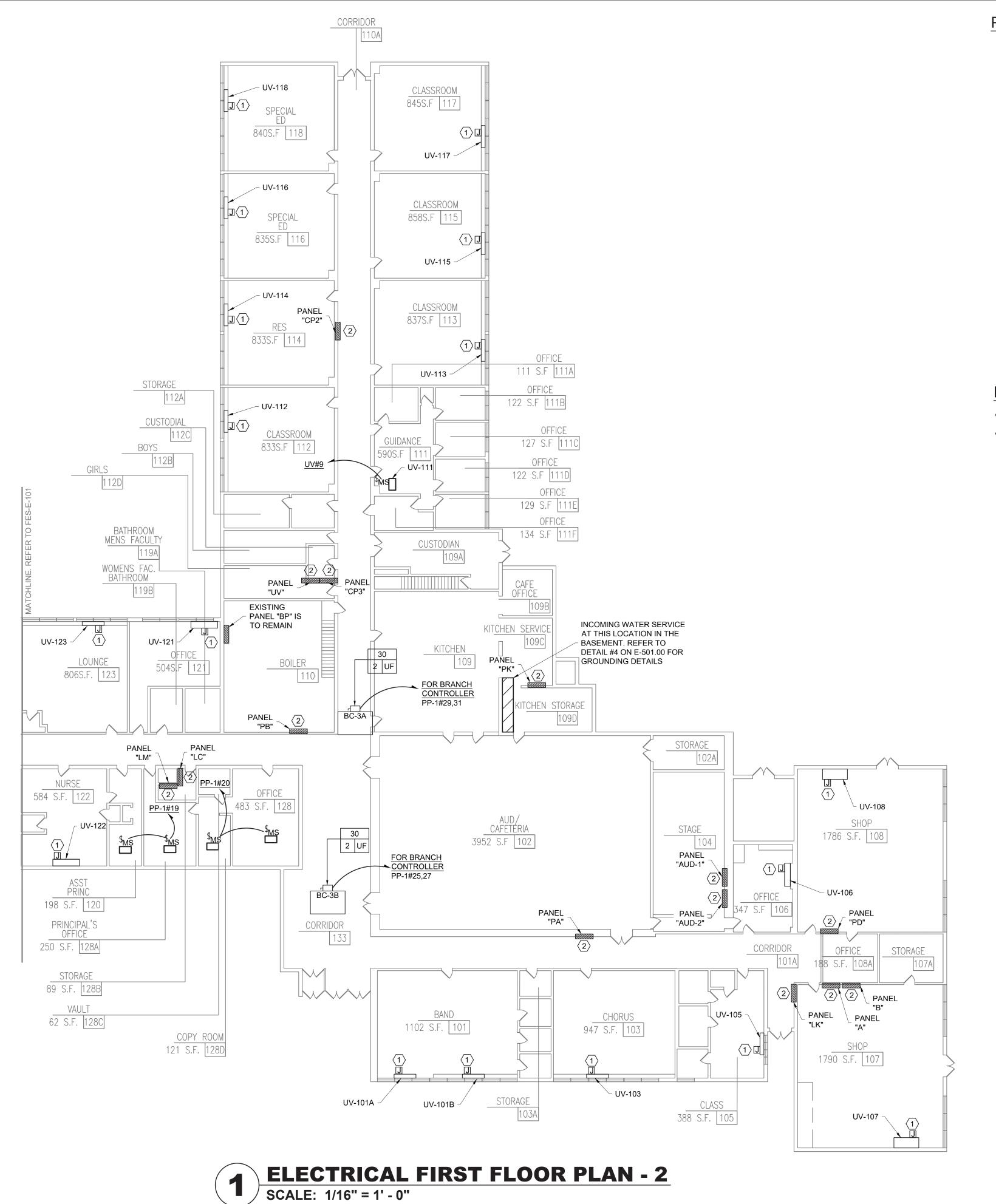




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	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC 2 EKECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901
	Mechanical & Electrical Engineer:	Structural Engineer:



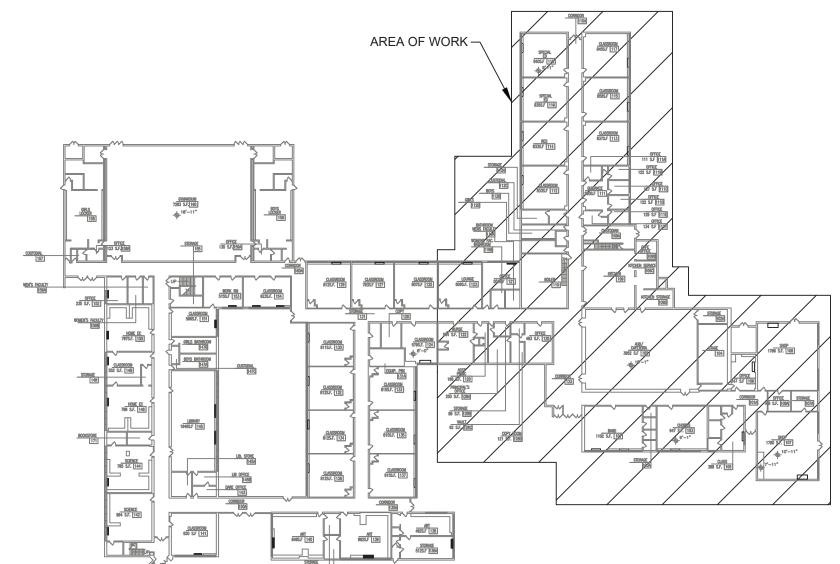
PLAN NORTH



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- 8. THE CONTRACTOR SHALL FIELD ROUTE FEEDER FOR NEW POWER PANELS. COORDINATE EXACT ROUTING PATH WITH OWNER. SUBMIT A PROPOSED ROUTING PATH TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO RUNNING ANY CONDUIT OR WIRE ASSOCIATED WITH THIS FEEDER.
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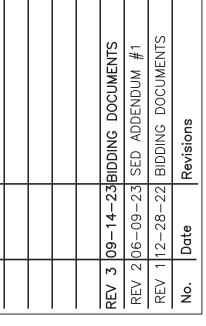
KEYED NOTES:

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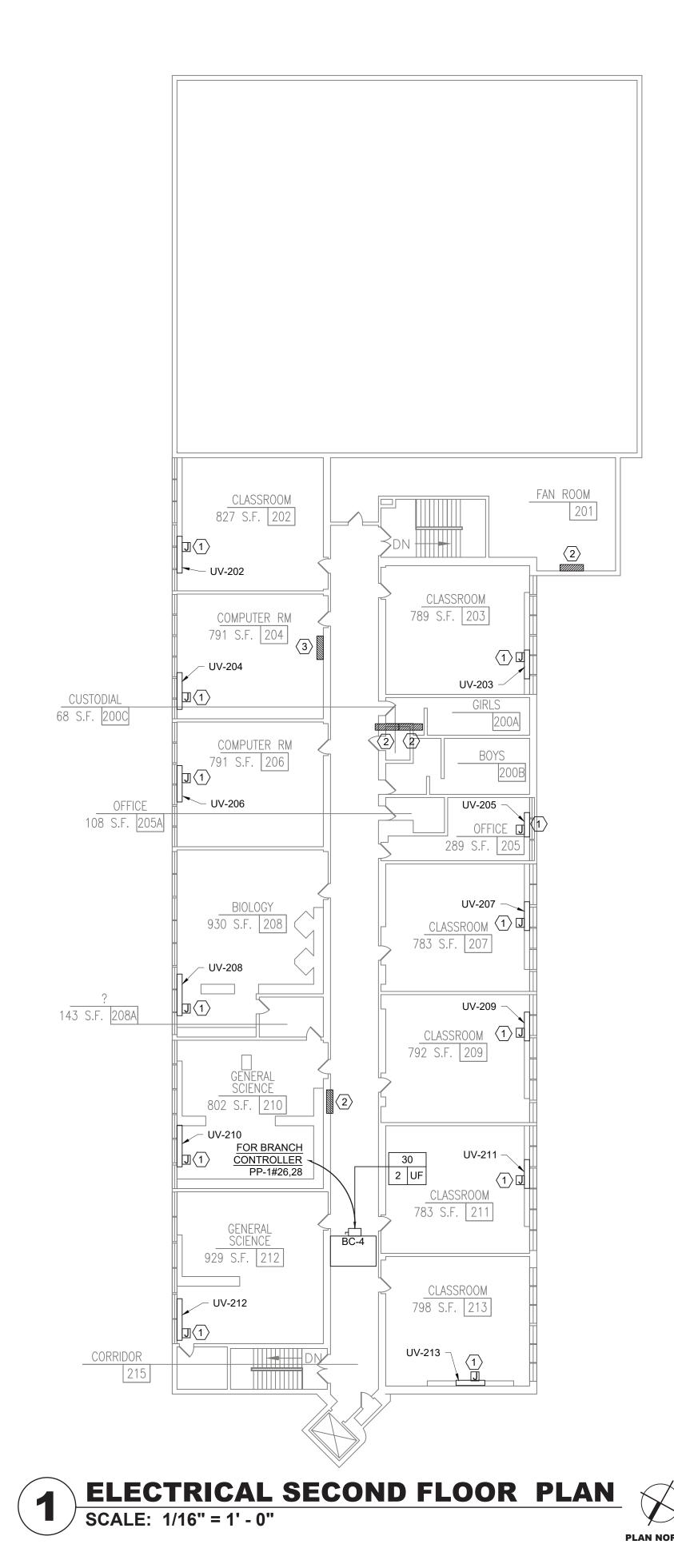
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<u> </u>	Checked by	SH	Project No.	42052	Scale	AS NOTED	Date	7/29/22

GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901
Mechanical & Electrical Engineer:	Structural Engineer:

UNIVENT
REPLACEMENT AT
FARLEY
ELEMENTARY
SED # 50-82CHO08L0-003-011



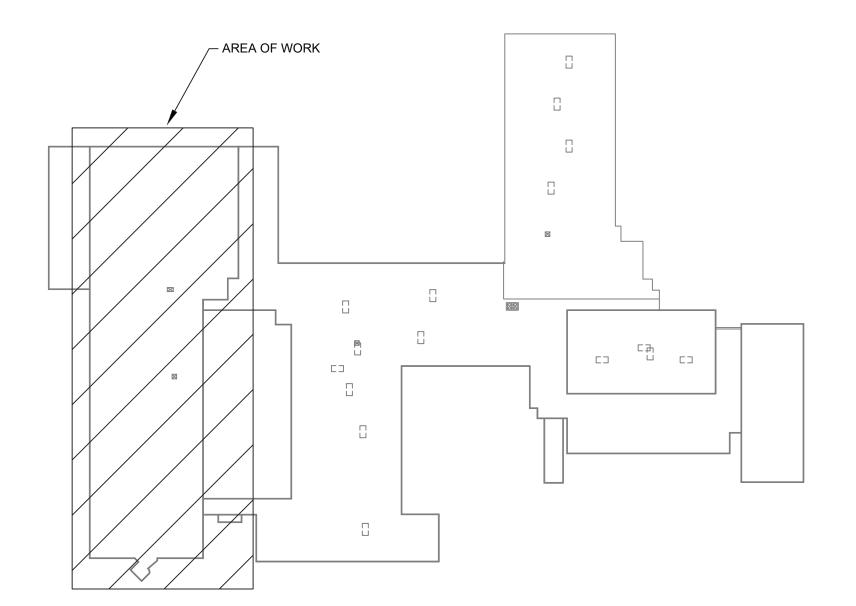
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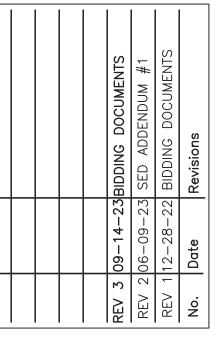
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- $\overline{(3)}$ EXISTING PANEL TO REMAIN.







DATE: 04-30-24
DATE:
EXP.
REG.

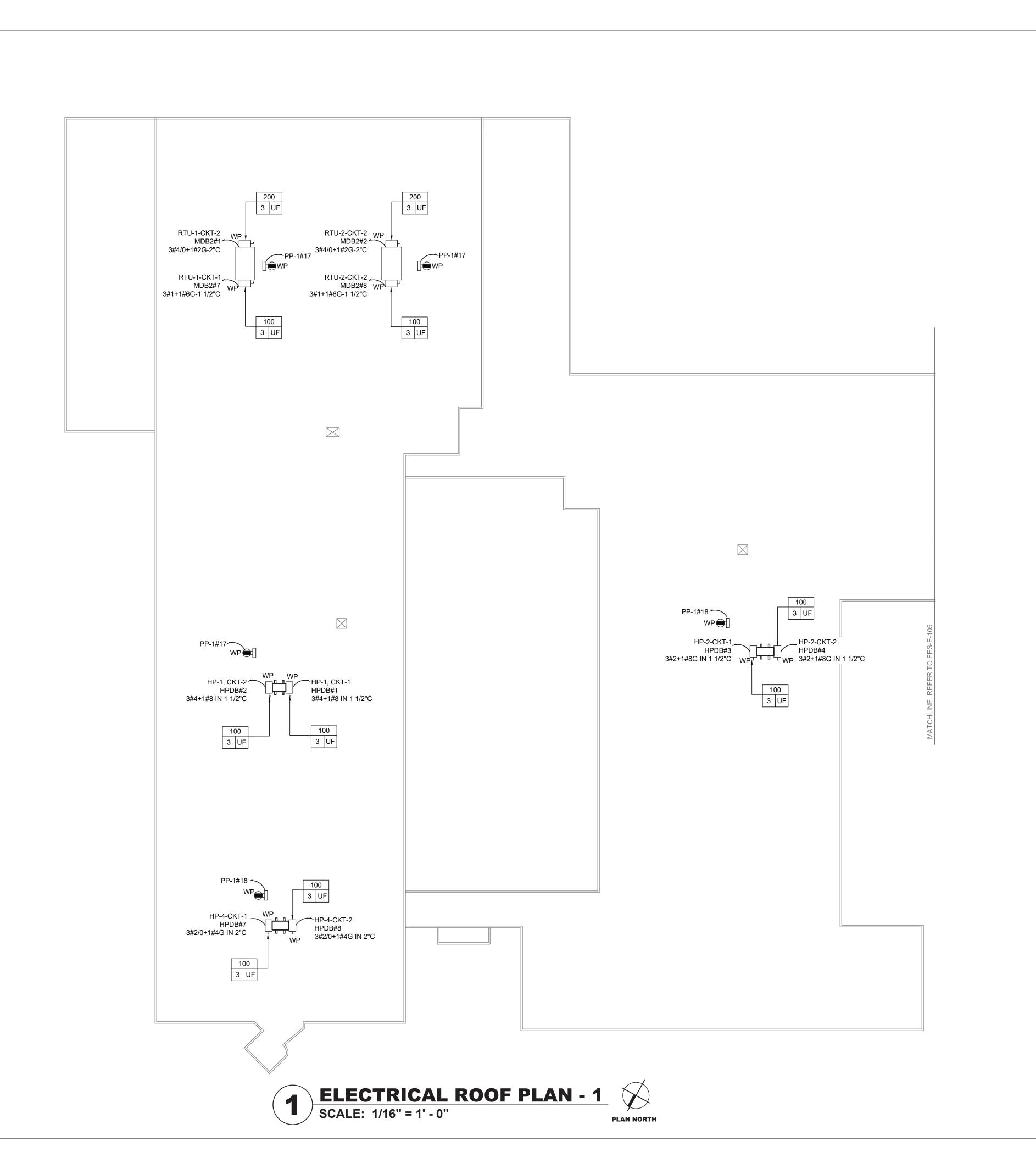
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Date	
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GREENMAN PEDERSEN, INC 2 EKECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901
Mechanical & Electrical Engineer:	Structural Engineer:

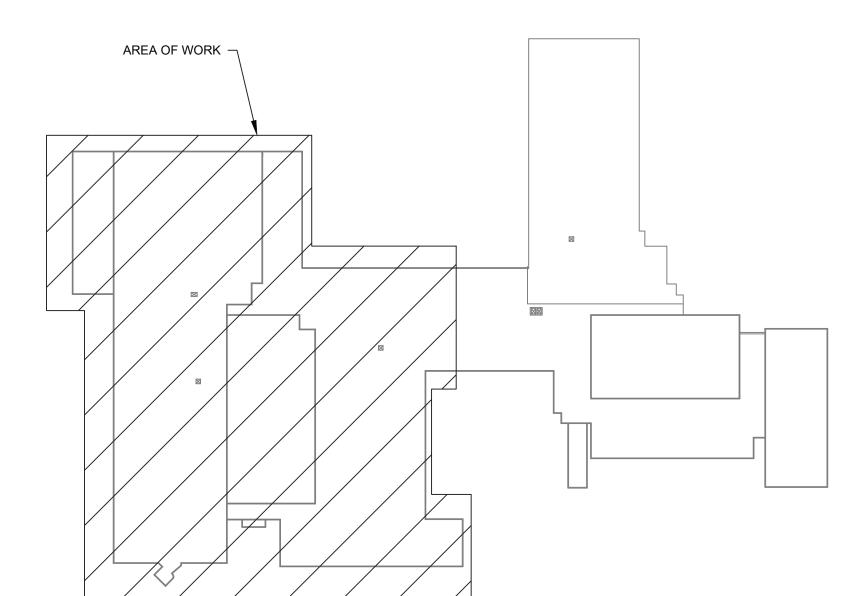
REPLACEMENT AT
FARLEY
ELEMENTARY
ED # 50-82CHO8L0-003-011



Drawing Title
ELECTRICAL SECOND
FLOOR PLAN
Drawing No.



- 1. REFER TO ADDITIONAL INSTALLATION NOTES ON DRAWING E-001.
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- 12. ALL EXTERIOR CONDUITS SHALL BE RIGID GALVANIZED CONDUIT.



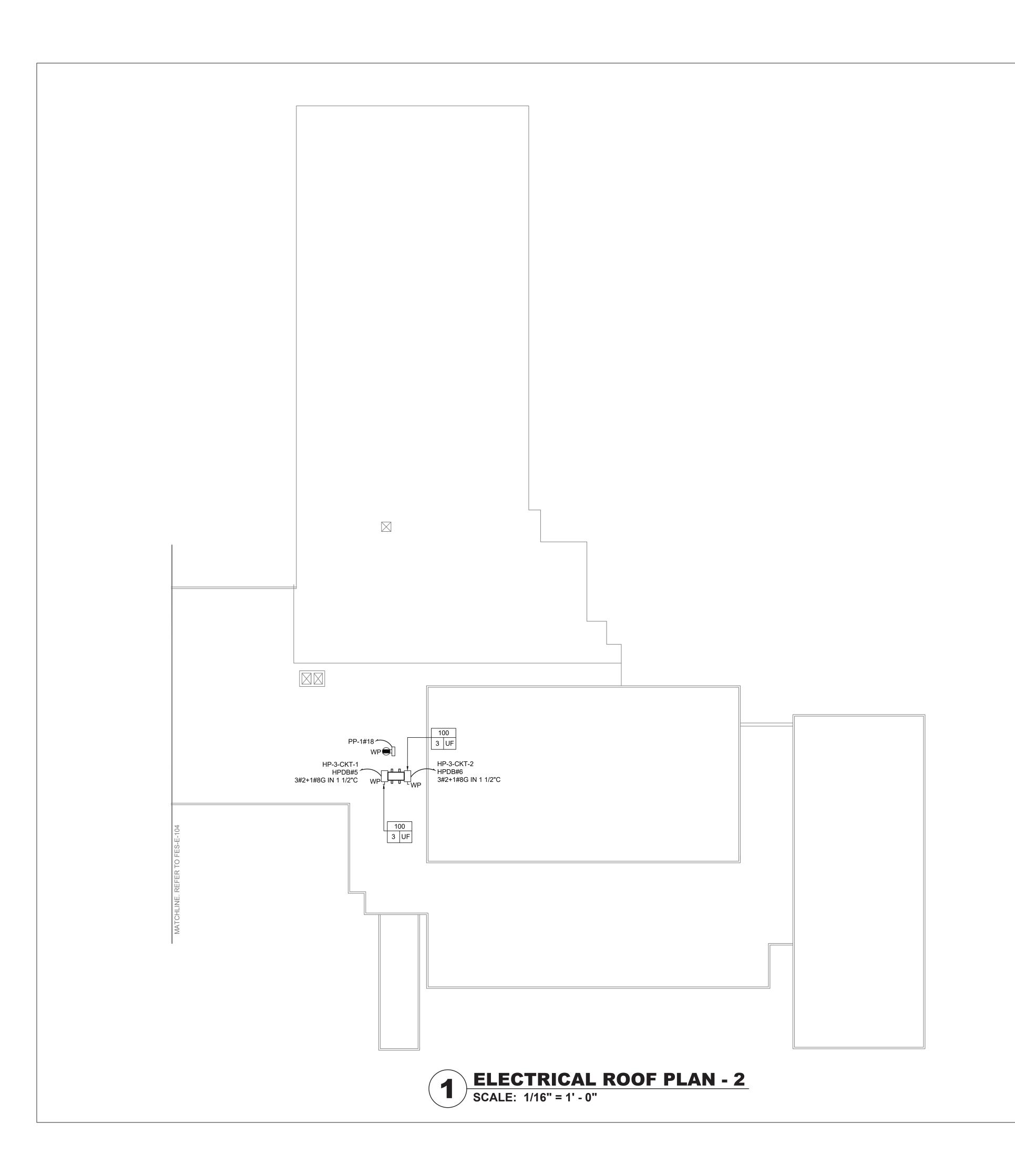


		REV 3 09-14-23 BIDDING DOCUMENTS	REV 2 06-09-23 SED ADDENDUM #1	REV 1 12-28-22 BIDDING DOCUMENTS	Revisions
		09-14-23	06-09-23	12-28-22	Date
		REV 3	REV 2	REV 1	No.

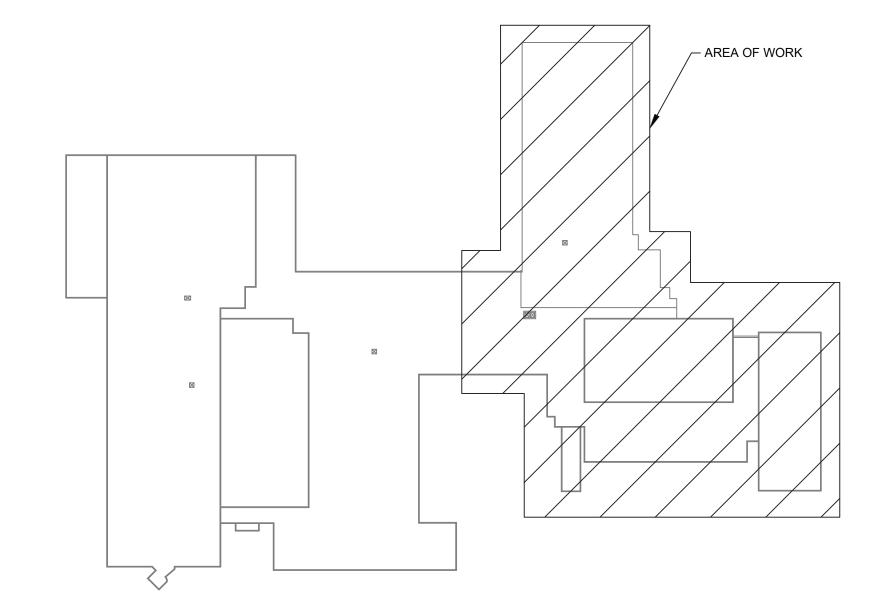
6 50000	SH	Project No.	42052	Scale	AS NOTED	Date	7/29/22

GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUITE 202 SUITERN, NY 10901
Mechanical & Electrical Engineer:	Structural Engineer:

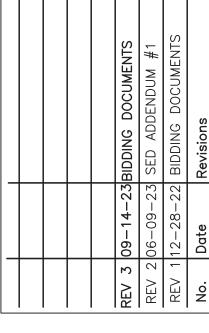




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REG. EXP. DATE: 04-30-24

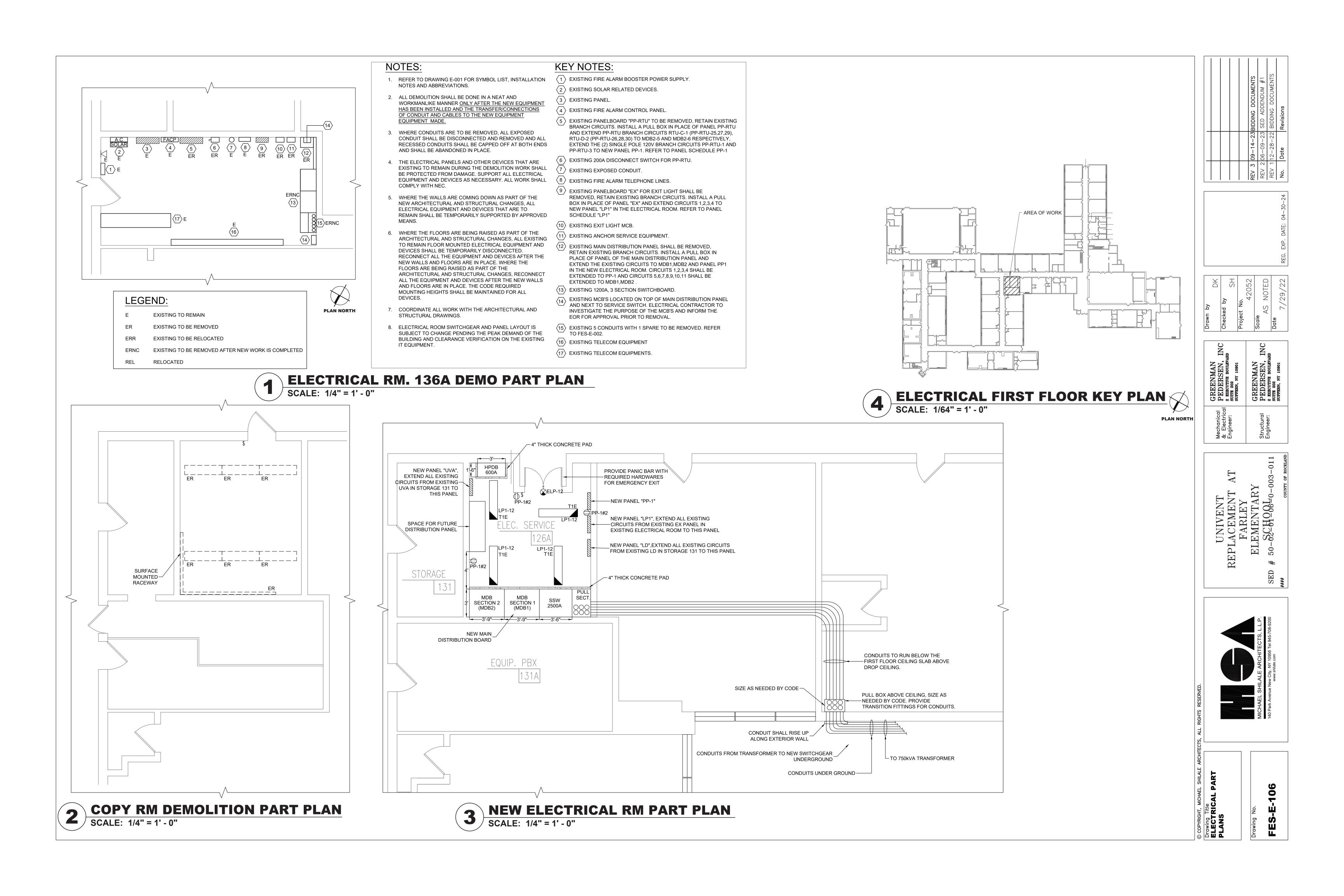
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Project No.
42052
Scale
AS NOTED
Date

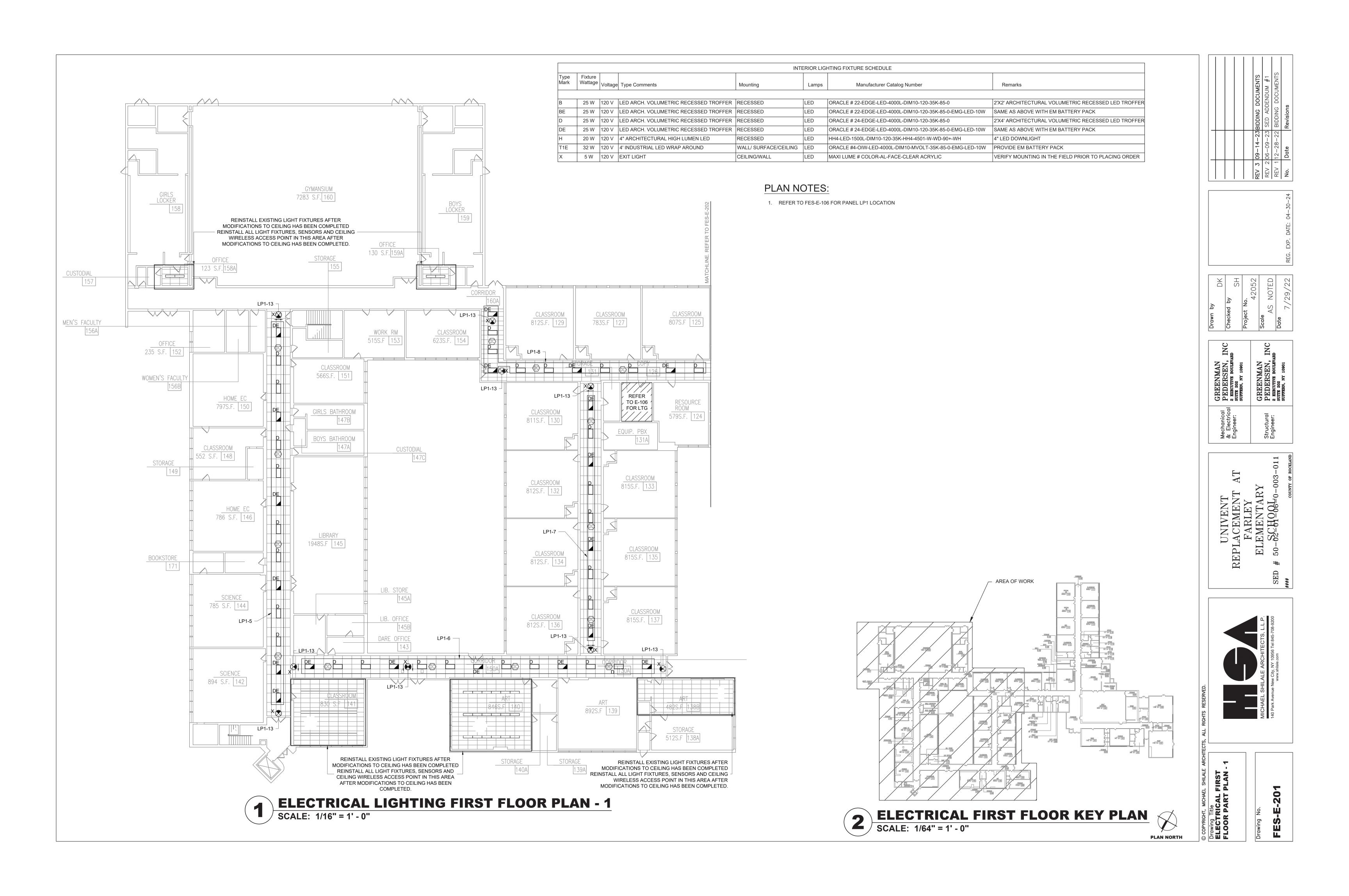
Mechanical
& Electrical
Engineer:
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Structural
PEDERSEN, INC
2 EXECUTIVE BOULEVARD
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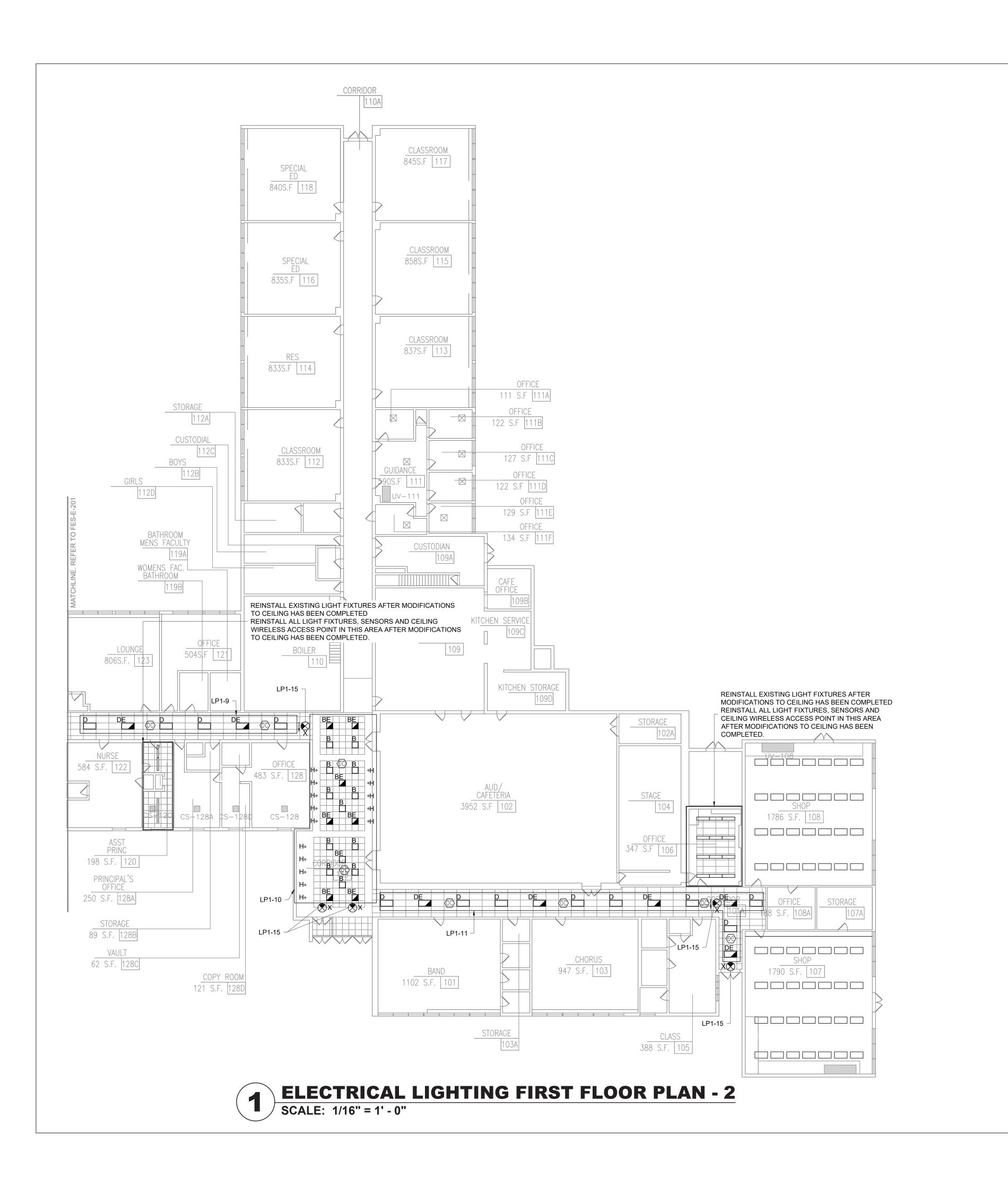
UNIVENT
REPLACEMENT AT
FARLEY
ELEMENTARY
50-&CHORL003-011



Drawing Title
ELECTRICAL ROOF
PLAN - 2
Drawing No.







- 1. REFER TO FES-E-201 FOR LIGHTING FIXTURE SCHEDULE
- 2. REFER TO FES-E-106 FOR PANEL LP1 LOCATION

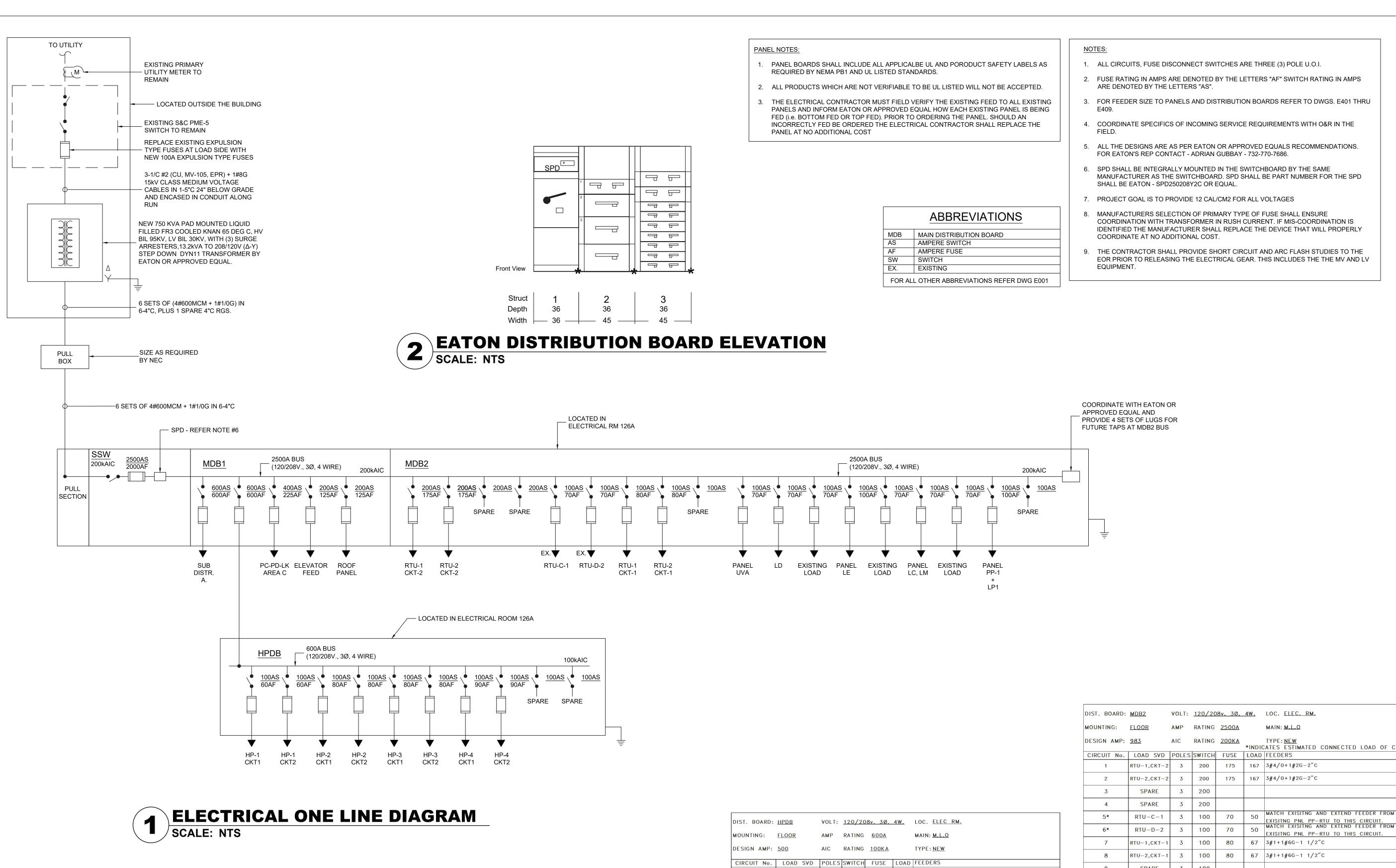
REV 3 09-14-23 BIDDING DOCUMENTS	REV 2 06-09-23 SED ADDENDUM #1	REV 1 12-28-22 BIDDING DOCUMENTS	Revisions
09-14-23	06-09-23	12-28-22	Date
REV 3	REV 2	REV 1	No.



PLAN NORTH

SCALE: 1/64" = 1' - 0"

AREA OF WORK-



VOLT: 120/208v, 3Ø, 4W. LOC. ELEC RM.

*INDICATES ESTIMATED CONNECTED LOAD OF CKT

3 200 125 90 MATCH EXISITNG FEEDER AND GROUND WIRE SIZ

AMP RATING: 2500A

CIRCUIT No. LOAD SVD POLES SWITCH FUSE LOAD FEEDERS

NEW LOAD(A): <u>1250</u>

HPDB

	1	RTU-1,CKT-2
	2	RTU-2,CKT-2
	3	SPARE
	4	SPARE
	5*	RTU-C-1
	6*	RTU-D-2
	7	RTU-1,CKT-1
	8	RTU-2,CKT-1
	9	SPARE
	10*	PNL UVA
	11*	PNL LD
	12*	EX. LOAD
	13*	PNL LE (EX)
	14*	EX. LOAD
	15*	PNL LC, LM (EX)
	16*	EX. LOAD
	17*	PNL PP-1 + ELP
	18	SPARE
•		

49 3#4+1#8G-1 1/2°C

41 3#4+1#8G-1 1/2°C

66 3#2+1#8G-1 1/2"C

66 3#2+1#8G-1 1/2"C

66 3#2+1#8G-1 1/2°C

73 3#2/0+1#4G-2"C

73 3#2/0+1#4G-2"C

80 66 3#2+1#8G-1 1/2"C

80

80

80

90

90

3 100

3 100

3 100

100

HP-2, CKT-1

HP-2,CKT-2

HP-3,CKT-1

HP-3,CKT-2

HP-4,CKT-1

HP-4, CKT-2

SPARE

DIST. BOARD:	MDB2	VOLT:	120/20	8v. 30.	4W.	LOC. <u>ELEC.</u> RM.
MOUNTING:	FLOOR	AMP	RATING	2500A		MAIN: M.L.O
DESIGN AMP:	983	AIC	RATING	<u>200KA</u>	*INDIC	TYPE: <u>NEW</u> CATES ESTIMATED CONNECTED LOAD OF CKT
CIRCUIT No.	LOAD SVD	POLES	SWITCH	FUSE		FEEDERS
1	RTU-1,CKT-2	3	200	175	167	3#4/0+1#2G-2"C
2	RTU-2,CKT-2	3	200	175	167	3#4/0+1#2G-2"C
3	SPARE	3	200			
4	SPARE	3	200			
5*	RTU-C-1	3	100	70	50	MATCH EXISITNG AND EXTEND FEEDER FROM EXISITNG PNL PP-RTU TO THIS CIRCUIT. MATCH EXISITNG AND EXTEND FEEDER FROM
6*	RTU-D-2	3	100	70	50	MATCH EXISITNG AND EXTEND FEEDER FROM EXISITNG PNL PP-RTU TO THIS CIRCUIT.
7	RTU-1,CKT-1	3	100	80	67	3#1+1#6G-1 1/2"C
8	RTU-2,CKT-1	3	100	80	67	3#1+1#6G-1 1/2"C
9	SPARE	3	100			
10*	PNL UVA	3	100	70	50	4#2+1#8G-1 1/2"C
11*	PNL LD	3	100	70	50	4#2+1#8G-1 1/2"C
12*	EX. LOAD	3	100	70	50	INSTALL NEW CABLES IN EXISITING CONDUIT MATCH EXISITING FEEDER AND GROUND WIRE SIZE
13*	PNL LE (EX)	3	100	100	75	INSTALL NEW CABLES IN EXISITNG CONDUIT MATCH EXISITNG FEEDER AND GROUND WIRE SIZE
14*	EX. LOAD	3	100	70	50	INSTALL NEW CABLES IN EXISITNG CONDUIT MATCH EXISITNG FEEDER AND GROUND WIRE SIZE
15*	PNL LC, LM (EX)	3	100	70	50	INSTALL NEW CABLES IN EXISITING CONDUIT MATCH EXISITING FEEDER AND GROUND WIRE SIZE INSTALL NEW CABLES IN EXISITING CONDUIT
16*	EX. LOAD	3	100	70	50	INSTALL NEW CABLES IN EXISITNG CONDUIT MATCH EXISITNG FEEDER AND GROUND WIRE SIZE
17*	PNL PP-1 + ELP	3	100	100	40	4#2+1#8G-1 1/2"C
18	SPARE	3	100			

UNIVENT
REPLACEMENT
FARLEY
ELEMENTAR
ELEMENTAR



Drawing Title
ELECTRICAL ONE LINE
DIAGRAM,
DISTRIBUTION BOARD
SCHEDULE

			PAN	NEL SCHE	DULE				
PANEL NAME:	New Panel "A"	LOCATION: Shop 107						MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PANEL (AMP) 225A						FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEDE	R SIZE		Match Exis	sting		FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO	MAIN BE			MLO			BRANCH C.B TYPE	MCB
Load Designation	Wiring		Pha	se Load ir	ı VA			Wiring	Load Designation
	3	C/B (A) CT	AØ	BØ	CØ	CT NO	C/B (A)		_
EXISTING LOAD	EXISTING TO REMAIN	70 3				2	70	EXISTING TO REMAIN	WELDER BELT SANDER
		5				6			
EXISTING LOAD	EXISTING TO REMAIN	70 9				8	30		SPARE
		11	_			10			
		13				12			
EXISTING LOAD	EXISTING TO REMAIN	30 15				16	20	EXISTING TO REMAIN	EXISTING LOAD
		19				20			
220V RECPT NORTH WALL	EXISTING TO REMAIN	20 21				22	20	EXISTING TO REMAIN	BAND SAW
		25				24			
220V RECPT NORTH WALL	EXISTING TO REMAIN	20 27				26	20	EXISTING TO REMAIN	220V RECPT NORTH WAL
		29	1			30			
EXISTING LOAD	EXISTING TO REMAIN	20 33				32	70	EXISTING TO REMAIN	FEED TOP HALF OF PANE
		37				36			
SPARE		20 39				38 40	20		SPARE
			1			42			
	CTED LOAD PER PHA TAL CONNECTED LOAI	2000		0	0	COF	PPER BUS OR: INDO	, EQUIP. GROUND BAR	OUNTING: RECESSED

	Г				IEL SCHE					
PANEL NAME:	New Panel "LA"	LC	OCAT	ION:	Corridor 150A		Corridor 150A		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL ((AMP)		225A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEI	EDER	SIZE		4#4/0+1#20	3-3"C		FEEDING SOURCE:	SUB DISTRIBUTION A
MAIN BREAKER TYPE	MLO		N BRE	EAKER G (A):		MLO			BRANCH C.B TYPE	MCB
					se Load i	n VA				
Load Designation	Wiring	C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
DISPLAY CASE	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	STAIRWAY LIGHTS
BRARY,OFFICE,WORKROOM	EXISTING TO REMAIN	20	3			-	4	20	EXISTING TO REMAIN	CEILING LGTS RM 174
CEILING LGTS RM 174	EXISTING TO REMAIN	20	5	. [6	20	EXISTING TO REMAIN	CEILING LGTS RM 174
CEILING LGTS RM 173	EXISTING TO REMAIN	20	/				8	20	EXISTING TO REMAIN	CEILING LGTS RM 173
CEILING LGTS RM 173	EXISTING TO REMAIN	20	9	-		-	10	20	EXISTING TO REMAIN	CEILING LGTS RM 172
CEILING LGTS RM 172	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	CEILING LGTS RM 172
STORE RM LIGHTS	EXISTING TO REMAIN	20	13				14	20	EXISTING TO REMAIN	CEILING LGTS RM 170
CEILING LGTS RM 170	EXISTING TO REMAIN	20	15	-		-	16	20	EXISTING TO REMAIN	CEILING LGTS RM 170
CEILING LGTS RM 170	EXISTING TO REMAIN	20	17	. [18	20	EXISTING TO REMAIN	CEILING LGTS LIBRARY
CEILING LGTS LIBRARY	EXISTING TO REMAIN	20	19				20	20	EXISTING TO REMAIN	CEILING LGTS LIBRARY
CEILING LGTS LIBRARY	EXISTING TO REMAIN	20	21	-		-	22	20	EXISTING TO REMAIN	REC. LIB. & WORK RM
REC. IN SCI. RM 172	EXISTING TO REMAIN	20	23				24	20	EXISTING TO REMAIN	REC. IN SCI. RM 172
REC. IN SCI. RM 172	EXISTING TO REMAIN	20	25				26	20	EXISTING TO REMAIN	REC. IN SCI. 173
REC. IN SCI. 173	EXISTING TO REMAIN	20	27	-		-	28	20	EXISTING TO REMAIN	REC. IN SCI. 173
REC. IN SCI. 177	EXISTING TO REMAIN	20	29	. [30	20	EXISTING TO REMAIN	REC. IN CORRIDORS
REC IN LIBRARY AND WORK RM	EXISTING TO REMAIN	20	31				32	20	EXISTING TO REMAIN	EM. LIGHT
JNIVENTS AND COOLING	EXISTING TO REMAIN	20	33	-		-	34	20	EXISTING TO REMAIN	EXISTING LOAD
OUTSIDE LIGHTS	EXISTING TO REMAIN	20	35				36	20	EXISTING TO REMAIN	LIGHTS IN CRAWL SPACE
EXISTING LOAD	EXISTING TO REMAIN	20	37				38	20	EXISTING TO REMAIN	EXISTING LOAD
SPARE		20	39	-		-	40	20	EXISTING TO REMAIN	EXISTING LOAD
SPARE		20	41	[42	20	ENISTING TO REMAIN	EXISTING LUAD
SPARE		20	43				44	20		SPARE
SPARE		20	45	-		-	46	20		SPARE
SPARE		20	47				48	20		SPARE
SPARE		20	49				50	20		SPARE
SPARE		20	51	-		-	52	20		SPARE
SPARE		20	53				54	20		SPARE

0.00

DOOR: INDOOR TYPE

TOTAL DEMAND LOAD IN AMPS

				PAN	IEL SCHE	DULE				
PANEL NAME:	New Panel "B"	LOCATION		ON:		Shop 10)7		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PANEL (AMP)			225A				FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEE	EDER	SIZE		Match Exis	sting		FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO		N BRE	AKER (A):		MLO			BRANCH C.B TYPE	MCB
					se Load ir	ı VA				
Load Designation	Wiring	C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
SPARE		20	1				2	20	EXISTING TO REMAIN	DEMO BENCH
RECEPTACLE	EXISTING TO REMAIN	20	3				4	20	EXISTING TO REMAIN	DEMO BENCH
ELEC. BENCH WALL RECPT.	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	RECEPTACLE
RECEPTACLE	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	RECEPTACLE
RECEPTACLE SOUTH	EXISTING TO REMAIN	20	9				10	20	EXISTING TO REMAIN	RECEPTACLE NORTH
RECEPTACLE SOUTH	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	EMERG. TRIP
SPARE	EXISTING TO REMAIN	20	13				14	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	17				16	20	EXISTING TO REMAIN	EXISTING LOAD
HOOD	EXISTING TO REMAIN	20	23				22 24 26	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	70	29				28 30 32	100	EXISTING TO REMAIN	PD PANEL WORK SHOP
SPARE		20	33				34	20		SPARE
SPARE		20	35				36	20		SPARE
SPARE		20	37				38	20		SPARE
SPARE		20	39				40	20		SPARE
SPARE		20	41				42	20		SPARE
TO	CTED LOAD PER PHA TAL CONNECTED LOA TOTAL DEMAND LOAD	D IN k	(VA	0	0 0.00	0	COF	IEL TYPE: PPER BUS DR: INDOO	, EQUIP. GROUND BAR	DUNTING: RECESSED

				PANE	EL SCHE	DULE				
PANEL NAME:	New Panel "CP2"	LC	OCATIO	N:		Corridor 1	110A		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL (A	MP)		250A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEI	FEEDER SIZE			Match Exi	sting	ing FEEDING SOURCE:		
MAIN BREAKER TYPE	MLO		N BREA	Control of the Contro		MLO			BRANCH C.B TYPE	MCB
					se Load i	n VA				
Load Designation	Wiring	C/B (A)	СТ	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
CORR. CEIL.	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	CEIL. RM. 144
CEIL. RM. 144	EXISTING TO REMAIN	20	3				4	20	EXISTING TO REMAIN	CEIL. RM. 142
CEIL. RM. 142	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	CEIL. RM. 140
CEIL. RM. 140	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	CEIL. RM. 138
CEIL. RM. 138	EXISTING TO REMAIN	20	9			-	10	20	EXISTING TO REMAIN	CEIL. RM. 139
CEIL. RM. 139	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	CEIL. RM. 139
CEIL. RM. 141	EXISTING TO REMAIN	20	13				14	20	EXISTING TO REMAIN	CEIL. RM. 141
CEIL. RM. 115	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	CEIL. RM. 115
CEIL. RM. 145	EXISTING TO REMAIN	20	17				18	20	EXISTING TO REMAIN	CEIL. RM. 145
RECEPT. RM 143-145 CORR. ENTRANCE LGT.	EXISTING TO REMAIN	20	19				20	20	EXISTING TO REMAIN	RECEPT. RM 141-143 CORR. ENTRANCE LGT.
RECEPT. 138,140,142,144	EXISTING TO REMAIN	20	21			-	22	20	EXISTING TO REMAIN	EXISTING LOAD
ROOM 144 ROOF LIGHT	EXISTING TO REMAIN	20	23				24	0	EXISTING TO REMAIN	EXISTING LOAD
EMERGENCY LIGHT IN HALL	EXISTING TO REMAIN	20	25				26	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	27				28	20	EXISTING TO REMAIN	EXISTING LOAD
SPARE		20	29				30	20		SPARE
SPARE		20	31				32	20		SPARE
SPARE		20	33				34	20		SPARE
SPARE		20	35				36	20		SPARE
SPARE		20	37			-	38	20		SPARE
SPARE		20	39				40	20		SPARE
SPARE		20	41				42	20		SPARE
	ECTED LOAD PER PHA DTAL CONNECTED LOA TOTAL DEMAND LOAD	D IN F	KVA	0	0 0.00	0	CO	NEL TYPE: PPER BUS DR: INDO	6, EQUIP. GROUND BAR	UNTING: RECESSED



- 3. THE ELECTRICAL CONTRACTOR MUST FIELD VERIFY THE EXISTING FEED TO ALL EXISITNG PANELS AND INFORM EATON OR APPROVED EQUAL HOW EACH EXISTING PANEL IS FED (i.e. BOTTOM FED OR TOP FED). PRIOR TO ORDERING THE PANEL. SHOULD AN INCORRECTLY FED BE ORDERED THE ELECTRICAL CONTRACTOR SHALL REPLACE THE PANEL AT NO ADDITIONAL COST

- PANEL BOARDS SHALL INCLUDE ALL APPLICALBE UL AND PORODUCT SAFETY LABELS AS REQUIRED BY NEMA PB1 AND UL LISTED STANDARDS.
- ALL PRODUCTS WHICH ARE NOT VERIFIABLE TO BE UL LISTED WILL NOT BE ACCEPTED.

				PAN	IEL SCHE	DULE				
PANEL NAME:	New Panel "LB"	L	OCATI	ION:	1	Custodial '	147C		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL (AMP)		225A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FE	EDER	SIZE		4#2+1#6G	i-2"C		FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO			EAKER		Feed Thru	Lugs		BRANCH C.B TYPE	MCB
		K/	ATING		se Load ir	ı VA				
Load Designation	Wiring	C/B (A)	СТ	AØ	BØ	CØ	СТ	C/B (A)	Wiring	Load Designation
CORRIDOR LIGHTS	EXISTING TO REMAIN	20	NO	The production			NO	20	EXISTING TO REMAIN	REC. IN CORRIDORS
CORRIDOR LIGHTS	EXISTING TO REMAIN	20	3				2	20	EXISTING TO REMAIN	CORRIDOR LIGHTS
OUTSIDE LIGHTS	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	STAIRWAY LIGHTS
CEILING LGTS RM 153	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	CEILING LGTS RM 152
CEILING LGTS RM 155	EXISTING TO REMAIN	20	9				10	20	EXISTING TO REMAIN	CEILING LGTS RM 155
CEILING LGTS RM 163	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	LIGHTS GIRLS TOILET
VERHEAD LIGHTS & BOYS TOILET	EXISTING TO REMAIN	20	13				14	20	EXISTING TO REMAIN	LIBRARY LIGHTS
LIBRARY LIGHTS	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	LIBRARY LIGHTS
LIBRARY LIGHTS	EXISTING TO REMAIN	20	17				18	20	EXISTING TO REMAIN	LIBRARY LIGHTS
EILING LIGHTS ROOM 157	EXISTING TO REMAIN	20	19				20	20	EXISTING TO REMAIN	CEILING LIGHTS ROOM 16
EILING LIGHTS ROOM 158	EXISTING TO REMAIN	20	21				22	20	EXISTING TO REMAIN	CEILING LIGHTS ROOM 16
EILING LIGHTS ROOM 164	EXISTING TO REMAIN	20	23				24	0	EXISTING TO REMAIN	MEN'S & WOMEN'S TLT.
REC. IN ROOM 163	EXISTING TO REMAIN	20	25				26	20	EXISTING TO REMAIN	REC. IN ROOM 163,155,153,152
REC. IN ROOM 163,155,153,152	EXISTING TO REMAIN	20	27				28	20	EXISTING TO REMAIN	CORRIDOR REC.
CORRIDOR LIGHTS	EXISTING TO REMAIN	20	29				30	20	EXISTING TO REMAIN	CORRIDOR LIGHTS
TV BOOSTER	EXISTING TO REMAIN	20	31				32	20	EXISTING TO REMAIN	EMERGENCY LIGHT
EXISTING LOAD	EXISTING TO REMAIN	20	33				34	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	35		_		36	20	EXISTING TO REMAIN	EXISTING LOAD
SPARE		20	37				38	20		SPARE
SPARE		20	39				40	20		SPARE
SPARE		20	41				42	20		SPARE
CONNE		0		0	400	PANEL TYPE: NEMA 1 MOUNTING: RECESSED COPPER BUS, EQUIP. GROUND BAR				
	MPS		0.00			DOOR: INDOOR TYPE PANEL SHALL BE IN A NEMA-3R ENCLOSURE				

				PAI	VEL SCHE	JULE				
PANEL NAME:	New Panel "LC2"	LC	CAT	ION:	2	nd Floor Co	orrido	r	MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PAI	NEL (АМР)		225A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEE	EDER	SIZE		Match Exis	sting		FEEDING SOURCE:	Sub Distribution A
MAIN BREAKER TYPE	MCB		N BRE	EAKER (A):		100A			BRANCH C.B TYPE	MCB
Load Darismation	Wining			Pha	se Load ir	ı VA			Wining	Lord Projection
Load Designation	Wiring		CT NO	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
CEIL. LGTS. CLASS 212	EXISTING TO REMAIN	20	1		el .		2	20	EXISTING TO REMAIN	CEIL. LGTS. CLASS 212
CEIL. LGTS. CLASS 212	EXISTING TO REMAIN	20	3				4	20	EXISTING TO REMAIN	CEIL. LGTS. CLASS 214
CEIL. LGTS. CLASS 214	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	CEIL. LGTS. CLASS 214
CEIL. LGTS. CLASS 216	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	CEIL. LGTS. CLASS 216
CEIL. LGTS. CLASS 216	EXISTING TO REMAIN	20	9				10	20	EXISTING TO REMAIN	CEIL. LGTS. CLASS 217
CEIL. LGTS. CLASS 217	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	CEIL. LGTS. CLASS 217
CEIL. LGTS. CLASS 215	EXISTING TO REMAIN	20	13				14	20	EXISTING TO REMAIN	CEIL. LGTS. CLASS 215
CEIL. LGTS. CLASS 215	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	CEIL. LGTS. CLASS 213
CEIL. LGTS. CLASS 213	EXISTING TO REMAIN	20	17				18	20	EXISTING TO REMAIN	CEIL. LGTS. CLASS 213
LGTS. BIOLOGY STORE RM	EXISTING TO REMAIN	20	19		e.		20	20	EXISTING TO REMAIN	REC. SCIENCE ROOM 215
REC. SCIENCE ROOM 215	EXISTING TO REMAIN	20	21				22	20	EXISTING TO REMAIN	REC. IN CORRIDOR
REC. BIO. ROOM 211	EXISTING TO REMAIN	20	23				24	0	EXISTING TO REMAIN	REC. BIO. ROOM 211
REC. BIO. ROOM 211	EXISTING TO REMAIN	20	25		ı.		26	20	EXISTING TO REMAIN	REC. BIO. ROOM 211
REC. BIO. ROOM	EXISTING TO REMAIN	20	27				28	20	EXISTING TO REMAIN	REC. IN SCI. RM. 213
REC. IN SCI. RM. 213	EXISTING TO REMAIN	20	29				30	20	EXISTING TO REMAIN	REC. INC CLASS 213,215
REC. INC CLASS 213,215	EXISTING TO REMAIN	20	31				32	20	EXISTING TO REMAIN	REC. INC CLASS 213,215
REC. IN CLASS 212,214,216,217,207	EXISTING TO REMAIN	20	33				34	20	EXISTING TO REMAIN	REC. IN CLASS 212,214,216,217,207
EMERGENCY LIGHTS	EXISTING TO REMAIN	20	35				36	20	EXISTING TO REMAIN	EMERGENCY LIGHTS
AC 209	EXISTING TO REMAIN	20	37				38	20	EXISTING TO REMAIN	EXISTING LOAD
AC 209	EXISTING TO REMAIN	20	39				40	20	EXISTING TO REMAIN	EXISTING LOAD
SPARE		20	41				42	20		SPARE
SPARE		20	43				44	20		SPARE
SPARE		20	45				46	20		SPARE
SPARE		20	47				48	20		SPARE
SPARE		20	49		,		50	20		SPARE
SPARE		20	51				52	20		SPARE

				PAN	IEL SCHEE	ULE				
PANEL NAME:	New Panel "CP3"	LC	CAT	ION:		Custodial 1	112C		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL	(AMP)		250A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FE	FEEDER SIZE		Mat	ch Existing	g Fee	Feeder FEEDING SOURCE:		
MAIN BREAKER TYPE	MLO			EAKER (A):		MLO			BRANCH C.B TYPE	MCB
					se Load in	VA				
Load Designation	Wiring	C/B (A)	CT	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
EXISTING LOAD	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	3				4	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	9				10	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	13				14	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	17				18	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	19				20	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	21				22	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	23				24	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	25				26	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	27				28	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	29				30	20	EXISTING TO REMAIN	EXISTING LOAD
SPARE		20	31				32	20		SPARE
SPARE		20	33				34	20		SPARE
SPARE		20	35				36	20		SPARE
SPARE		20	37				38	20		SPARE
SPARE		20	39				40	20		SPARE
SPARE		20	41				42	20		SPARE
1 00 000	NECTED LOAD PER PHA			0		0	1	IEL TYPE:		JNTING: RECESSED
	TOTAL CONNECTED LOA				0			OR: INDO	S, EQUIP. GROUND BAR OR TYPE	
	TOTAL DEMAND LOAD	IN AN	MPS		0.00				OR TYPE L BE IN A NEMA-3R ENCLOSUI	DE

				PAN	EL SCHEI	DULE				
PANEL NAME:	New Panel "LC"	L	CAT	ION:		Storage 1	28B		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL (AMP)		250A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FE	EDER	SIZE		Match Exi	sting		FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO		N BRE	EAKER		Feed Thru	Lugs		BRANCH C.B TYPE	MCB
		10			se Load in	n VA				
Load Designation	Wiring	C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
CEIL. LGTS. CLASS 123	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	CEIL. LGTS. CLASS 121
CEIL. LGTS. CLASS 121	EXISTING TO REMAIN	20	3	-			4	20	EXISTING TO REMAIN	CEIL. LGTS. CLASS 116
CEIL. LGTS. CLASS 116	EXISTING TO REMAIN	20	5	-			6	20	EXISTING TO REMAIN	CEIL. RM. 118
CEIL. RMS. 120, 122	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	RECPT. RM. 122 + 120
RECPT. RM. 122	EXISTING TO REMAIN	20	9	-		1	10	20	EXISTING TO REMAIN	FAN TEACHERS
RECPT. RM. 120	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	RECPT. CORR. RM. 116,118
AIR COND. ASST. PRIN.	EXISTING TO REMAIN	20	13				14	20	EXISTING TO REMAIN	RECPT. RM. 119, 121
RECPT. RM. 121	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	RECPT. RM. 121
A/C TEACHERS RM	EXISTING TO REMAIN	20	17				18	20	EXISTING TO REMAIN	UNIVENT RM. 121
EXISTING LOAD	EXISTING TO REMAIN	20	19				20	20	EXISTING TO REMAIN	CLOSET RECPT. RM. 121 ROOF FAN #6
ROOF FAN #19	EXISTING TO REMAIN	20	21				22	20	EXISTING TO REMAIN	ROOF FAN #20
ROOF LGT. OVER OFFICE	EXISTING TO REMAIN	20	23				24	20	EXISTING TO REMAIN	A/C TEACHERS ROOM
REC. BIO. ROOM 211	EXISTING TO REMAIN	20	25				26	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	27	-			28	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	29				30	20	EXISTING TO REMAIN	EXHAUST FAN TEACHERS
SPARE		20	31				32	20		SPARE
SPARE		20	33	-			34	20		SPARE
SPARE		20	35				36	20		SPARE
SPARE		20	37				38	20		SPARE
SPARE		20	39]	40	20		SPARE
SPARE		20	41				42	20		SPARE
TC	ECTED LOAD PER PHA DTAL CONNECTED LOA TOTAL DEMAND LOAD	D IN I	(VA	0	0 0.00	0	COF		6, EQUIP. GROUND BAR	OUNTING: RECESSED

	REV 3	09-14-23	REV 3 09-14-23 BIDDING DOCUMENTS
	REV 2	06-09-23	REV 2 06-09-23 SED ADDENDUM #1
	REV 1	12-28-22	REV 1 12-28-22 BIDDING DOCUMENTS
. DATE: 04-30-24	No.	Date	Revisions

UNIVENT
REPLACEMENT A
FARLEY
ELEMENTARY
D # 50-&CHOR



- PANEL BOARDS SHALL INCLUDE ALL APPLICALBE UL AND PORODUCT SAFETY LABELS AS REQUIRED BY NEMA PB1 AND UL LISTED STANDARDS.
- ALL PRODUCTS WHICH ARE NOT VERIFIABLE TO BE UL LISTED WILL NOT BE ACCEPTED.
- 3. THE ELECTRICAL CONTRACTOR MUST FIELD VERIFY THE EXISTING FEED TO ALL EXISITNG PANELS AND INFORM EATON OR APPROVED EQUAL HOW EACH EXISTING PANEL IS FED (i.e. BOTTOM FED OR TOP FED). PRIOR TO ORDERING THE PANEL. SHOULD AN INCORRECTLY FED BE ORDERED THE ELECTRICAL CONTRACTOR SHALL REPLACE THE PANEL AT NO ADDITIONAL COST

				PAI	NEL SCHE	DULE				
PANEL NAME:	New Panel "LD"	L	OCAT	ION:	Ele	ectric Servi	ce 12	16A	MOUNTING:	Surface
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL (AMP)		100A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FE	EDER	SIZE	F	REFER TO	E400	0	FEEDING SOURCE:	MDB2
MAIN BREAKER TYPE	MLO		N BRI ATING	EAKER 5 (A):		MLO			BRANCH C.B TYPE	MCB
Load Designation	Wiring			Pha	se Load in	ı VA			Wiring	Load Designation
Load Designation	wiinig	C/B (A)	CT NO	AØ	BØ	СØ	CT NO	C/B (A)	Willing	Load Designation
CORRIDOR LGTS.	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	CORRIDOR LGTS.
CEIL. RM. 106	EXISTING TO REMAIN	20	3]	4	20	EXISTING TO REMAIN	CEIL. RM. 106
CEIL. RM. 108	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	CEIL. RM. 108
CEIL. RM. 110	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	CEIL. RM. 110
CEIL. RM. 112	EXISTING TO REMAIN	20	9]	10	20	EXISTING TO REMAIN	CEIL. RM. 112
CEIL. RM. 114	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	CEIL. RM. 114
CEIL. RM. 117 & 119	EXISTING TO REMAIN	20	13				14	20	EXISTING TO REMAIN	CEIL. RM. 119
CEIL. RM. 115-113	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	CEIL. RM. 111
CEIL. RM. 111	EXISTING TO REMAIN	20	17				18	20	EXISTING TO REMAIN	CORRDIOR RECPT.
RECPT. RMS. 104, 106, 108	EXISTING TO REMAIN	20	19				20	20	EXISTING TO REMAIN	RECPTS. CORRIDOR RMS. 110,112
RECPT. CORRDIOR RMS 112, 114, 116	EXISTING TO REMAIN	20	21				22	- 20	EXISTING TO REMAIN	RECEPT. 111,117,119
ROOF FAN 5 & 16	EXISTING TO REMAIN	20	23				24	20	EXISTING TO REMAIN	ROOF FAN #2
ROOF LGTS. OVER RM 110	EXISTING TO REMAIN	20	25				26	20		SPARE
ROOM 111 LIGHTING	EXISTING TO REMAIN	20	27				28	20		SPARE
SPARE		20	29				30	20		SPARE
SPARE		20	31				32	20		SPARE
SPARE		20	33				34	20		SPARE

				PAN	NEL SCHE	DULE				
PANEL NAME:	New Panel "AUD-1"	Lo	OCAT	TION:	A	Auditorium	Stage		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL ((AMP)		225A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FE	EDER	RSIZE		Match Exis	sting		FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO			EAKER 3 (A):		MLO			BRANCH C.B TYPE	MCB
				Pha	se Load ir	n VA				
Load Designation	Wiring	C/B (A)	CT	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
GYM CEILING	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	GYM CEILING
GYM CEILING	EXISTING TO REMAIN	20	3			•	4	20	EXISTING TO REMAIN	GYM CEILING
GYM CEILING	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	GYM CEILING
GYM CEILING	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	GYM CEILING
GYM CEILING	EXISTING TO REMAIN	20	9			1	10	20	EXISTING TO REMAIN	GYM CEILING
GYM CEILING	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	GYM CEILING
STAGE POCKET N	EXISTING TO REMAIN	20	13				14	20	EXISTING TO REMAIN	STAGE POCKET N
EXISTING LOAD	EXISTING TO REMAIN	20	15			1	16	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	17				18	20	EXISTING TO REMAIN	EXISTING LOAD
STAGE POCKET S	EXISTING TO REMAIN	20	19				20	20	EXISTING TO REMAIN	STAGE POCKET S
STAGE RECPT.	EXISTING TO REMAIN	20	21]	22	20	EXISTING TO REMAIN	MOTORIZED SCREEN
CURTAIN MOTOR	EXISTING TO REMAIN	20	23				24	0	EXISTING TO REMAIN	GYM EXHAUSE FAN S
GYM EXHAUST FAN N	EXISTING TO REMAIN	20	25				26	20	EXISTING TO REMAIN	STAGE PASSAGE LGHT
EMERG. LGT. RECPT.	EXISTING TO REMAIN	20	27				28	20	EXISTING TO REMAIN	BASKETBALL BACK STOP MOTOR
EXISTING LOAD	EXISTING TO REMAIN	20	29				30	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	31				32	20	EXISTING TO REMAIN	GROUNDSMAN ROOM
EXISTING LOAD	EXISTING TO REMAIN	20	33]	34	20	EXISTING TO REMAIN	EMERG. LIGHTS
SPARE		20	35				36	20		SPARE
SPARE		20	37				38	20		SPARE
SPARE		20	39]	40	20		SPARE
SPARE		20	41				42	20		SPARE

	T		PAI	NEL SCHE	DULE				
PANEL NAME:	New Panel "CP1"	LOC	ATION:		Corridor 1	30A		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PANE	EL (AMP)		250A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEED	ER SIZE		Match Exi	sting		FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO		BREAKER ING (A):		MLO			BRANCH C.B TYPE	MCB
			Ph	ase Load ir	ı VA				
Load Designation	Wiring	C/B (A) C	T AØ	ВØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
CORRIDOR CEIL.	EXISTING TO REMAIN	20	1			2	20	EXISTING TO REMAIN	CEIL. RM. 105
CEIL. RM. 105	EXISTING TO REMAIN	20	3			4	20	EXISTING TO REMAIN	CEIL. RM. 105
RM.105 CLST. & TLT. VEST. & OUTSIDE LTGS.	EXISTING TO REMAIN	20	5			6	20	EXISTING TO REMAIN	CEIL. RM. 103
CEIL. RM. 103	EXISTING TO REMAIN	20	7			8	20	EXISTING TO REMAIN	CEIL. RM. 103
RM. 101-103 COAT & STORE RMS.	EXISTING TO REMAIN	20	9			10	20	EXISTING TO REMAIN	RM. 101-103 TLT, VEST. & OUTSIDE LGTS
CEIL. RM. 101	EXISTING TO REMAIN	20 1	1			12	20	EXISTING TO REMAIN	CEIL. RM. 101
CEIL. RM. 101	EXISTING TO REMAIN	20 1	3	-		14	20	EXISTING TO REMAIN	CEIL. RM. 102
CEIL. RM. 102	EXISTING TO REMAIN	20 1	5			16	20	EXISTING TO REMAIN	CEIL. RM. 104
CEIL. RM. 104	EXISTING TO REMAIN	20 1	7			18	20	EXISTING TO REMAIN	CEIL. RM. 109
CEIL. RM. 109	EXISTING TO REMAIN	20 1	9			20	20	EXISTING TO REMAIN	CEIL. RM. 107
CEIL. RM. 107	EXISTING TO REMAIN	20 2	21			22	20	EXISTING TO REMAIN	RECPT.CORR. RM. 103,105 SOUTH ENT. LGT.
RECPT. CORR. RM. 101	EXISTING TO REMAIN	20 2	23			24	20	EXISTING TO REMAIN	RECPT. CORR. RM 107
RCPT. RM. 102,104, NORTH ENTRANCE LGT.	EXISTING TO REMAIN	20	25			26	20	EXISTING TO REMAIN	ROOF FAN #1
EXISTING LOAD	EXISTING TO REMAIN	20 2	27			28	20	EXISTING TO REMAIN	ROOF LGT. OVER RM 101
EXISTING LOAD	EXISTING TO REMAIN	20	29			30	20	EXISTING TO REMAIN	NEW OUTLETS 104-109- 111
EXISTING LOAD	EXISTING TO REMAIN	20	31			32	20	EXISTING TO REMAIN	ROOF LIGHT OVER 105
SPARE		20	33			34	20		SPARE
SPARE		20 3	35			36	20		SPARE
SPARE		20 3	37			38	20		SPARE
SPARE		20 3	39			40	20		SPARE
SPARE		20	11			42	20		SPARE

TOTAL CONNECTED LOAD IN KVA

TOTAL DEMAND LOAD IN AMPS

TOTAL DEMAND LOAD IN AMPS

COPPER BUS, EQUIP. GROUND BAR

DOOR: INDOOR TYPE

DOOR: INDOOR TYPE

				PAI	NEL SCHE	DULE				
PANEL NAME:	New Panel "PG"	L	OCAT	ΓΙΟΝ:		Fan Room	201		MOUNTING:	Surface
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL ((AMP)		100A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FE	EDER	R SIZE		Match Exi	sting		FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO	1		EAKER G (A):		100A			BRANCH C.B TYPE	MCB
					ise Load ii	n VA				
Load Designation	Wiring	C/B (A)	CT	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
BOYS LOCKER FAN	EXISTING TO REMAIN	20	1		<u> </u>		2	20	EXISTING TO REMAIN	BOYS TOILET FAN
GIRLS LOCKER FAN	EXISTING TO REMAIN	20	3			1	4	20	EXISTING TO REMAIN	GIRLS TOILET FAN
			5				6			
FAN #11	EXISTING TO REMAIN	20	7		1		8	20	EXISTING TO REMAIN	FAN #13
			9			1	10			
			11]			12			
FAN #16	EXISTING TO REMAIN	20	13]		14	20	EXISTING TO REMAIN	FAN #18
			15				16			
			17				18			
Fan 101	EXISTING TO REMAIN	20	19		†		20	20	EXISTING TO REMAIN	FAN 102
			21				22			
			23				24			
EXISTING LOAD	EXISTING TO REMAIN	20	25		-		26	20	EXISTING TO REMAIN	EXISTING LOAD
			27				28			
SPARE		20	29					20		SPARE
			31				30			
SPARE		20	77		1	_	32	20		SPARE
SPARE		20	33			-	34	20		SPARE
SPARE		20	35 37	•			36	20		SPARE
SPARE		20	39		<u> </u>	_	38	20		SPARE
SPARE		20	41			-	40	20		SPARE
SPARE		20	41	•			42	20		SPARE
	NECTED LOAD PER PHA			0		0		EL TYPE	: NEMA 1 MO 5, EQUIP. GROUND BAR	UNTING: SURFACE
	OTAL CONNECTED LOAD				0			DR: INDO		



- PANEL BOARDS SHALL INCLUDE ALL APPLICALBE UL AND PORODUCT SAFETY LABELS AS REQUIRED BY NEMA PB1 AND UL LISTED STANDARDS.
- ALL PRODUCTS WHICH ARE NOT VERIFIABLE TO BE UL LISTED WILL NOT BE ACCEPTED.
- THE ELECTRICAL CONTRACTOR MUST FIELD VERIFY THE EXISTING FEED TO ALL EXISITNG PANELS AND INFORM EATON OR APPROVED EQUAL HOW EACH EXISTING PANEL IS FED (i.e. BOTTOM FED OR TOP FED). PRIOR TO ORDERING THE PANEL. SHOULD AN INCORRECTLY FED BE ORDERED THE ELECTRICAL CONTRACTOR SHALL REPLACE THE PANEL AT NO ADDITIONAL COST

				PAN	NEL SCHEE	DULE				
PANEL NAME:	New Panel "LG"	LC	CAT	ON:	Boys Locker 159			MOUNTING:	RECESSED ON WALL	
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PAI	NEL ((AMP) 100A			100A		FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEDER S		SIZE	[eder		FEEDING SOURCE:		
MAIN BREAKER TYPE	MLO	MAIN BREA RATING (A		IVII (MLO			BRANCH C.B TYPE	MCB
Load Designation	Wiring			Pha	se Load ir	ı VA			Wiring	Load Designation
Load Designation	wiinig	C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)	Willing	Load Designation
SPARE		20	1				2	20		SPARE
LIGHTS + RECEP STOR,	MATCH EXISTING	20	3				4	20	MATCH EXISTING	LIGHTS + RECEP STOR,
OFFICE TOILET, OFFICE & LOCKER ENTRANCE	MATCH EXISTING	20	5				6	20	MATCH EXISTING	LIGHTS LOCKER ROOM
LIGHTS LOCKER ROOM	MATCH EXISTING	20	7				8	20	MATCH EXISTING	LIGHTS LOCKER ROOM
LIGHTS LOCKER ROOM	MATCH EXISTING	20	9				10	20	MATCH EXISTING	LIGHTS TOILET & OUTSIDI LIGHT
LIGHTS STORE ROOM & OUTSIDE LIGHT	MATCH EXISTING	20	11				12	20	MATCH EXISTING	SOAP DISPENSER
UNIVENT LOCKER ROOM	MATCH EXISTING	20	13				14	20	MATCH EXISTING	EXISTING LOAD
SPARE		20	15				16	20		SPARE
SPARE		20	17				18	20		SPARE
	CTED LOAD PER PHA			0		0		IEL TYPE:		OUNTING: SURFACE
TOTAL CONNECTED LOAD IN KVA TOTAL DEMAND LOAD IN AMPS				O COPPER BUS, EQUIP. GROUND BAR DOOR: INDOOR TYPE						

				PA	NEL SCHEE	DULE				
PANEL NAME:	New Panel "UV"	LC	CAT	TION: Custodial 112C					MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PAI	PANEL (AM		AMP) 60A				FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEDER S		R SIZE Match Ex			sting		FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO	MAIN BREA RATING (MLO			BRANCH C.B TYPE	MCB
Load Designation	Wiring			Pha	ase Load in	ı VA			Wiring	Load Designation
Load Designation	Wiring	C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)	wiring	Load Designation
UNIVENT RM. 131	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	UNIVENT RM. 127, 129
UNIVENT RM. 143, 145	EXISTING TO REMAIN	20	3				4	20	EXISTING TO REMAIN	UNIVENT RM. 139, 141
UNIVENT RM. 138, 140	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	UNIVENT RM. 142, 144
EXISTING LOAD	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	EXISTING LOAD
UV-111	2#12+1#12G-3/4"C	20	9		250		10	20		SPARE
SPARE		20	11				12	20		SPARE
SPARE		20	13				14	20		SPARE
SPARE		20	15				16	20		SPARE
SPARE		20	17				18	20		SPARE
	ECTED LOAD PER PHA DTAL CONNECTED LOA			0	250 0.25	0	COF		, EQUIP. GROUND BAR	OUNTING: RECESSED
	TOTAL DEMAND LOAD	IN AM	1PS					R: INDOO IEL SHAL	OR TYPE L BE IN A NEMA-3R ENCLOS	URE

				PAN	NEL SCHE	DULE				
PANEL NAME:	New Panel "UVB"	LC	CAT	ION:		Custodial 1	47C		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PAI	PANEL (AMP)		100A				FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEDER SIZE		4#4+1#8G-1 1/2"C				FEEDING SOURCE:		
MAIN BREAKER TYPE	MLO		MAIN BREAKER RATING (A):			Feed Thru Lugs			BRANCH C.B TYPE	MCB
Load Designation	Wiring				se Load in	ı VA			Wiring	Load Designation
Load Designation	Willing	C/B (A)	CT NO	AØ	BØ	СØ	NO T	C/B (A)	Willing	Load Designation
UNIVENTS RM 163-153	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	UNIVENTS RM. 153 & 152
UNIVENTS RM 164 & 156	EXISTING TO REMAIN	20	3				4	20	EXISTING TO REMAIN	UNIVENTS RM. 167 & 170
UNIVENT RM. 172 & 173	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	UNIVENTS RM. 174
EXISTING LOAD	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	9				10	20	2#12+1#12G-3/4"C	UNIVENTS RM. 158 & 159
SPARE		20	11				12	20		SPARE
SPARE		20	13				14	20		SPARE
SPARE		20	15				16	20		SPARE
SPARE		20	17				18	20		SPARE
	CTED LOAD PER PHA			0		0		EL TYPE:	NEMA 1 M	OUNTING: SURFACE
	TAL CONNECTED LOAD TOTAL DEMAND LOAD				0.00			R: INDO	ALL IN THE PARTY I	

				PAI	NEL SCHE	DULE				
PANEL NAME:	New Panel "AUD-2"	LC	CAT	ION:		Stage			MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	PANEL (AMP)		225A				FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FE	FEEDER SIZE		Match Existing				FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO		N BRE	EAKER i (A):	MLO				BRANCH C.B TYPE	MCB
Load Designation	Wiring		СТ		se Load in		СТ		Wiring	Load Designation
		C/B (A)	NO	AØ	BØ	CØ	NO	C/B (A)		
STAGE WORK LGTS.	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	STAGE WORK LGTS.
RED 2ND BORDER	EXISTING TO REMAIN	20	3				4	20	EXISTING TO REMAIN	BLUE 2ND BORDER
GREEN 2ND BORDER	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	GREEN 2ND BORDER
RED 2ND BORDER	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	BLUE 2ND BORDER
GREEN 1ST BORDER	EXISTING TO REMAIN	20	9				10			GREEN 1ST BORDER
BLUE 1ST BORDER	EXISTING TO REMAIN	20	11				12	30	EXISTING TO REMAIN	RED 1ST BORDER
RED 1ST BORDER	EXISTING TO REMAIN	20	13		1		14			BLUE 1ST BORDER
STAGE FLOOD	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	STAGE FLOOD
EXISTING LOAD	EXISTING TO REMAIN	20	17				18	20	EXISTING TO REMAIN	SPOT LGTS.
SPOT LGTS.	EXISTING TO REMAIN	20	19		1		20	20	EXISTING TO REMAIN	SPOT LGTS.
OUTSIDE LOT	EXISTING TO REMAIN	20	21				22	20	EXISTING TO REMAIN	STAGE RECPTS.
GYM RECEPTS & STAGE	EXISTING TO REMAIN	20	23				24	20	EXISTING TO REMAIN	GYM RECPT. NORTH EMERG. LGT. RECPT.
AMPLIFIER	EXISTING TO REMAIN	20	25				26	20	EXISTING TO REMAIN	T-V ANTENNA BOOSTER
PARTITION MOTOR	EXISTING TO REMAIN	20	27 29 31				28 30 32	20	EXISTING TO REMAIN	H & V FAN
SPARE		20	33				34	20		SPARE
SPARE		20	35				36	20		SPARE
SPARE		20	37				38	20		SPARE
SPARE		20	39				40	20		SPARE
SPARE		20	41				42	20		SPARE
	ECTED LOAD PER PHA DTAL CONNECTED LOAD TOTAL DEMAND LOAD	D IN I	<va< td=""><td>0</td><td>0 0.00</td><td>0</td><td>COF</td><td>PER BUS</td><td>, EQUIP. GROUND BAR</td><td>OUNTING: RECESSED</td></va<>	0	0 0.00	0	COF	PER BUS	, EQUIP. GROUND BAR	OUNTING: RECESSED

			PAI	NEL SCHE	DULE				
PANEL NAME:	New Panel "LH"	LOCAT	ION:	(Girls Locke	r 158		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PANEL	(AMP)		100A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEDER	SIZE	4	4#1/0+1#40	G-2"C	,	FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO	MAIN BR RATING			70A			BRANCH C.B TYPE	MCB
Load Designation	Wining		Pha	se Load ii	n VA			Wiring	Load Designation
Load Designation	Wiring	C/B (A) CT	AØ	BØ	CØ	CT NO	C/B (A)	wining	Load Designation
LOCKER ENTRANCE LGTS.	EXISTING TO REMAIN	20 1				2	20	EXISTING TO REMAIN	LGTS. OFF. & TOILET
LGTS. LOCKER ROOM	EXISTING TO REMAIN	20 3				4	20	EXISTING TO REMAIN	LGTS. LOCKER ROOM
LGTS. LOCKER ROOM	EXISTING TO REMAIN	20 5				6	20	EXISTING TO REMAIN	LGTS. SHOWER ROOM
LGTS. TOILET	EXISTING TO REMAIN	20 7]		8	20	EXISTING TO REMAIN	LGTS. STOREROOM
UNIVENT LOCKER RM.	EXISTING TO REMAIN	20 9				10	20	EXISTING TO REMAIN	SOAP DISPENSER
EXISTING LOAD	EXISTING TO REMAIN	20 11				12	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20 13		1		14	20	EXISTING TO REMAIN	EXISTING LOAD
SPARE		20 15				16	20		SPARE
SPARE		20 17				18	20		SPARE
CONNE	ECTED LOAD PER PHA	SE IN VA	0	0	0	9. 10.000	NEL TYPE		DUNTING: SURFACE
TO	OTAL CONNECTED LOA	- n n		0			OR: INDO	S, EQUIP. GROUND BAR OR TYPE	
	TOTAL DEMAND LOAD	IN AMPS		0.00					

REV	3	09-14-23	REV 3 09-14-23 BIDDING DOCUMENTS
RE	/ 2	06-09-23	REV 2 06-09-23 SED ADDENDUM #1
RE	۷ 1	12-28-22	REV 1 12-28-22 BIDDING DOCUMENTS
No.		Date	Revisions

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REPLACEMENT A
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D # 50-82CHO8L0-00

- PANEL BOARDS SHALL INCLUDE ALL APPLICALBE UL AND PORODUCT SAFETY LABELS AS REQUIRED BY NEMA PB1 AND UL LISTED STANDARDS.
- 2. ALL PRODUCTS WHICH ARE NOT VERIFIABLE TO BE UL LISTED WILL NOT BE ACCEPTED.
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				PAI	NEL SCHE	DULE				
PANEL NAME:	New Panel "LE"	L	LOCATION:			Gym			MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL ((AMP)		100A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FE	EDER	RSIZE	4	1#1/0+1#40	G-2"C	;	FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO			EAKER 3 (A):		Feed Thru	Lugs		BRANCH C.B TYPE	MCB
Land Barina for	Widow			Pha	se Load ii	ı VA			14/1-1	Land Barina dia n
Load Designation	Wiring	C/B (A)	CT NO	ΑØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
GYM LIGHTS	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	3				4	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	9				10	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	13		_		14	20	EXISTING TO REMAIN	GYM LIGHTS
	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	27110711110 10 1121111111		17							

60A	ASCO	SWITC

REC. GYM	EXISTING TO REMAIN	20 1		2	20	EXISTING TO REMAIN	REC. GYM & LIGHTS
REC. LOCKER & STORE	EXISTING TO REMAIN	20 3		4	20	EXISTING TO REMAIN	REC. GYM & LIGHTS
WHITE LIGHTS	EXISTING TO REMAIN	20 5		6	20	EXISTING TO REMAIN	WHITE LIGHTS
SPARE		20 7	_	8	20		SPARE
	•	•					

CONNECTED LOAD PER PHASE IN VA	0	0	O PANEL TYPE: NEMA 1	MOUNTING: RECESSED
TOTAL CONNECTED LOAD IN KVA		0	COPPER BUS, EQUIP. GROUND BAR	
TOTAL DEMAND LOAD IN AMPS		0.00	DOOK, INDOOK TIPE	

				PAN	IEL SCHEI	DULE				
PANEL NAME:	New Panel "PA"	New Panel "PA" LOCATI		N:		Corridor 1	133		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PANI	PANEL (AMP)		250A				FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEC	FEEDER SIZE		Match Existing				FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO		MAIN BREAKER RATING (A):		MLO				BRANCH C.B TYPE	MCB
Lond Projection	Winima				se Load ir	ı VA			14/:	Load Basismation
Load Designation	Wiring	C/B (A)	NO NO	AØ	BØ	СØ	CT NO	C/B (A)	Wiring	Load Designation
CORR. CEIL.	EXISTING TO REMAIN	20 –	1				2	20	EXISTING TO REMAIN	MUSIC RM. CEIL.
LOCKER RM.	EXISTING TO REMAIN	20	3	-			4	20	EXISTING TO REMAIN	SHOWER RM. & OFFICE
CEIL. RM. 131	EXISTING TO REMAIN	20 –	5				6	20	EXISTING TO REMAIN	CEIL. RM. 131
CEIL. RM. 129	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	CEIL. RM. 129
CEIL. RM. 127	EXISTING TO REMAIN	20 –	9				10	20	EXISTING TO REMAIN	CEIL. RM. 128
RECPT. CORR. RM. 133,131	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	CEIL. RM. 128
RECPT. CORR. RM. 127,129	EXISTING TO REMAIN	20	13				14	- 20	EXISTING TO REMAIN	CEIL. RM. 128
UNIT HTR. LCKR. RM 133	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	STAGE FLOOD
EXHAUST FAN #12 RM. 124	EXISTING TO REMAIN	20	17				18	20	EXISTING TO REMAIN	SPOT LGTS.
RECPT. RM 103	EXISTING TO REMAIN	20	19				20	20		SPARE
SPARE		20	21	-			22	20		SPARE
SPARE		20	23				24	20		SPARE
SPARE		20	25				26	20		SPARE
SPARE		20	27				28	- 20		SPARE
SPARE		20	29	-			30	20		SPARE
	VA VA PS	0	0 0.00	0	PANEL TYPE: NEMA 1 MOUNTING: RECESSED COPPER BUS, EQUIP. GROUND BAR DOOR: INDOOR TYPE					

			PA	NEL SCHE	DULE				
PANEL NAME:	New Panel "LM"	LOCA	ATION:		Storage 1	28B		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PANE	PANEL (AMP) FEEDER SIZE MAIN BREAKER RATING (A):		250A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEDI			Match Exi	sting		FEEDING SOURCE:	
MAIN BREAKER TYPE	MCB				100A			BRANCH C.B TYPE	
Load Designation	Wiring	C/B (A) C		ase Load i	n VA	СТ	C/B (A)	Wiring	Load Designation
LOBBY CEIL.	EXISTING TO REMAIN	20 N	0 70		0.0	NO	20	EXISTING TO REMAIN	LOBBY. CEIL.
LOBBY CEIL.	EXISTING TO REMAIN	20	3		_	2	20	EXISTING TO REMAIN	LOBBY. CEIL.
CLERKS OFFICE CEIL.	EXISTING TO REMAIN	20	5			6	20	EXISTING TO REMAIN	VAULT WORK ROOM
TELEPHONE BOOTH LCKS	EXISTING TO REMAIN	20	7			8	20	EXISTING TO REMAIN	RECEPT. DISPLAY
FLOOR RECPT. CLERK'S RM - DISPLAY CASE	EXISTING TO REMAIN	20	9			10	20	EXISTING TO REMAIN	FLOOR RECEPT. CLERK
P.A. RACK	EXISTING TO REMAIN	20 1	1			12	20	EXISTING TO REMAIN	CLOCK & PROGRAM
RECPT. MASTERCLOCK	EXISTING TO REMAIN	20 1	3	1		14	20	EXISTING TO REMAIN	RECPT. WORK ROOM
RECPT. PRINCIPAL'S OFF.	EXISTING TO REMAIN	20 1				16	20	EXISTING TO REMAIN	RECPT. RM. 121
RECPT. WORK RM.	EXISTING TO REMAIN	20 1	7			18	20	EXISTING TO REMAIN	UNIT HTR. PRIN. OFFCE
ENTRANCE CANOPY LGTS.	EXISTING TO REMAIN	20 1	9			20	20	EXISTING TO REMAIN	INTERCOM PWR. UNIT OUTLETS
TRANSFORMER VAULT LGT. & RECPT.	EXISTING TO REMAIN	20 2	1			22	20	EXISTING TO REMAIN	TEACHERS RM
EXISTING LOAD	EXISTING TO REMAIN	20 2	3			24	20	EXISTING TO REMAIN	TEACHERS RM
TEACHERS AC	EXISTING TO REMAIN	20 2	5			26	20	EXISTING TO REMAIN	TEACHERS RM
TEACHERS RM	EXISTING TO REMAIN	20 2	7			28	20	EXISTING TO REMAIN	TEACHERS RM
SPARE		20 2	9			30	20		SPARE
SPARE		20 3	1			32	20		SPARE
SPARE		20 3	3			34	20		SPARE
SPARE		20 3	5			36	20		SPARE
SPARE		20 3	7		1	38	20		SPARE
SPARE		20 3	9			40	20		SPARE
SPARE		20 4	1			42	20		SPARE
TO	CTED LOAD PER PHA TAL CONNECTED LOAD TOTAL DEMAND LOAD	D IN KV	Α	0 0.00	0	COF	PPER BUS OR: INDO	, EQUIP. GROUND BAR	DUNTING: RECESSED

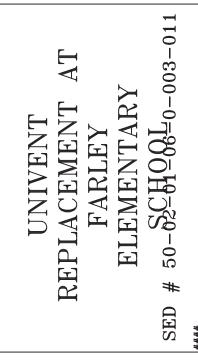
				PAN	NEL SCHE	DULE				
PANEL NAME:	New Panel "LF"	Lo	OCAT	ION:		Gym			MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL (AMP)		100A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FE	EDER	SIZE		4#2+1#6G	-2"C		FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO			EAKER		Feed Thru	Lugs		BRANCH C.B TYPE	MCB
		K/	ATING	• •	se Load ii	ı VA				
Load Designation	Wiring	C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
GYM LIGHTS	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	3			<u> </u>	4	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	9				10	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	13				14	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	15]	16	20	EXISTING TO REMAIN	GYM LIGHTS
GYM LIGHTS	EXISTING TO REMAIN	20	17				18	20	EXISTING TO REMAIN	GYM LIGHTS
60A ASCO S										
REC. GYM LIGHTS	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	REC. GYM
REC. GYM	EXISTING TO REMAIN	20	3			-	4	20	EXISTING TO REMAIN	REC. GYM
REC. GYM	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	REC. GYM
SCOREBOARD	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	9				10	20	EXISTING TO REMAIN	EXISTING LOAD
SPARE		20	11				12	20		SPARE
	IECTED LOAD PER PHA OTAL CONNECTED LOA TOTAL DEMAND LOAD	D IN I	KVA	0	0 0.00	0	COI	PPER BUS	: NEMA 1 MO S, EQUIP. GROUND BAR OR TYPE	UNTING: RECESSED

	REV 3	3 09-14-2	REV 3 09-14-23 BIDDING DOCUMENTS
	REV	2 06-09-2	REV 2 06-09-23 SED ADDENDUM #1
	REV	1 12-28-2	REV 1 12-28-22 BIDDING DOCUMENTS
-24	No.	Date	Revisions

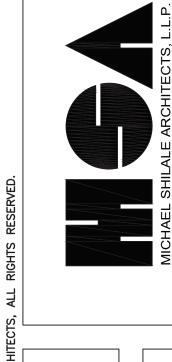
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REG. EXP. DATE:	04-30-24
REG. EXP.	DATE:
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GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901
Mechanical & Electrical Engineer:	Structural Engineer:







				PAN	IEL SCHEE	DULE						
PANEL NAME:	New Panel "LK"	Lo	OCATI	ION:		Corridor 1	01A		MOUNTING:	Recessed on Wall		
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL (AMP)		100A			FREQUENCY:	60 Hz		
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FE	EDER	SIZE	4#5001	MCM+1#1	/0G-3	1/2"C	FEEDING SOURCE:			
MAIN BREAKER TYPE	MLO		N BRE	AKER (A):	1	Feed Thru	Lugs		BRANCH C.B TYPE	MCB		
Load Designation	Wining			Pha	se Load ir	ı VA			Wining	Load Designation		
Load Designation	Wiring	C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation		
EXISTING LOAD	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	ENTRANCE LGTS.		
CEILING LGTS SHOP 1	EXISTING TO REMAIN	20	3				4	20	EXISTING TO REMAIN	CEILING LGTS SHOP 1		
CEILING LGTS SHOP 1	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	CEILING LGTS SHOP 1		
CEILING LGTS SHOP 2	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	CEILING LGTS SHOP 2		
CEILING LGTS SHOP 2	EXISTING TO REMAIN	20	9	-]	10	20	EXISTING TO REMAIN	CEILING LGTS SHOP 2		
LGTS. IN STOR. RM OF SHOP #2	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	LGTS. IN STOR. RM OF SHOP #1		
NIVENT CEILING SHOP #2	EXISTING TO REMAIN	20	13				14	20	EXISTING TO REMAIN	UNIVENT CEILING SHOP #		
UNIT HEATERS SHOP #2	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	UNIT HEATERS SHOP #1		
FANS IN CHORAL RMS	EXISTING TO REMAIN	20	17				18	20	EXISTING TO REMAIN	UV CEILING		
UV CEILING	EXISTING TO REMAIN	20	19				20	20	EXISTING TO REMAIN	EXISTING LOAD		
AN IN STORAGE SHOP #1	EXISTING TO REMAIN	20	21]	22	20	EXISTING TO REMAIN	OUTSIDE LIGHTS		
EXISTING LOAD	EXISTING TO REMAIN	20	23				24	20	EXISTING TO REMAIN	EXISTING LOAD		
SPARE		20	25				26	20		SPARE		
SPARE		20	27			1	28	20		SPARE		
SPARE		20	29				30	20		SPARE		
CONNE	CTED LOAD PER PHA	SF IN	۷۸					NEL TYPE	TYPE: NEMA 1 MOUNTING: RECESSED			
	TAL CONNECTED LOAD			3	0	1	COF	PPER BUS	S, EQUIP. GROUND BAR			
	TOTAL DEMAND LOAD				0.00		DOC	DR: INDO	OR TYPE			

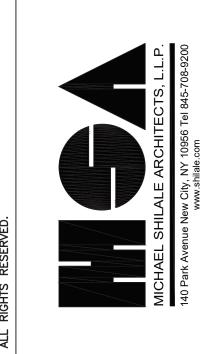
				PAN	NEL SCHE	DULE				
PANEL NAME:	New Panel "UVA"	LOC	CATIO	N:	Ele	ctrical Serv	ice 12	26A	MOUNTING:	Surface
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PANE	EL (AN	MP)		60A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEED	DER S	IZE	F	REFER TO	E400)	FEEDING SOURCE:	MDB2
MAIN BREAKER TYPE	MLO	MAIN RAT	BREA ING (A	COLUMN TO THE PARTY OF THE PART		MLO			BRANCH C.B TYPE	MCB
				Pha	se Load i	n VA				
Load Designation	Wiring	C/B (A)	TO	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
UNIVENT RM. 110	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	UNIVENT RM. 112, 114
UNIVENT RM. 116, 118	EXISTING TO REMAIN	20 –	3			1	4	20	EXISTING TO REMAIN	UNIVENT RM. 101, 102
UNIVENT RM. 104, 106	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	UNIVENT RM. 108
UNIVENT RM. 111, 119	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	UNIVENT RM. 107, 109
UNIVENT RM. 105, 103	EXISTING TO REMAIN	20	9				10	- 20	EXISTING TO REMAIN	EXISTING LOAD
EXISTING LOAD	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	EXISTING LOAD
UV-138	2#12+1#12G-3/4"C	20	13	250			14	20		SPARE
SPARE		20	15				16	20		SPARE
SPARE		20	17				18	20		SPARE
SPARE		20	19				20	20		SPARE
SPARE		20	21				22	20		SPARE
SPARE		20	23				24	20		SPARE
CONNE	ECTED LOAD PER PHA	SE IN \	VA	250		0		NEL TYPE		OUNTING: SURFACE
	OTAL CONNECTED LOAD TOTAL DEMAND LOAD		11.7		0.25			OR: INDO	6, EQUIP. GROUND BAR OR TYPE	

VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	DA	NEI /	AMP)		6004			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT									-	60 HZ
RATING(KA):	22 KA			SIZE EAKER		Match Ex			FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO		TING			MLC)		BRANCH C.B TYPE	MCB
Load Designation	Wiring			Pha	ise Load i	n VA			Wiring	Load Designation
		C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)	J	•
			1				2			
DUMBWAITER	EXISTING TO REMAIN	20	3			-	4	20	EXISTING TO REMAIN	OVEN FAN + LIGHTS
			5				6			
			7				8			
OVEN FAN + LIGHTS	EXISTING TO REMAIN	20	9			_	10	20	EXISTING TO REMAIN	FREEZER
			11				12			
			13				14			
HOOD FAN (NEW)	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	MIXER
			17				18			
			19		<u> </u>		20			
OLD REFRIGERATOR	EXISTING TO REMAIN	20	21			-	22	20	EXISTING TO REMAIN	WALK IN BOX FRIG
			23				24			
			25		-					
HOT FOOD	EXISTING TO REMAIN	20	27				26	20	EXISTING TO REMAIN	WALK IN BOX FRIG
1101 1005	EXISTING TO REMAIN	20	29				28	20	EXISTING TO REMAIN	WALK IN BOX THIS
			31				30			
			31		-		32			
OUTSIDE REFRIG.	EXISTING TO REMAIN	20	33			-	34	20	EXISTING TO REMAIN	OUTSIDE FREEZER
			35				36			
			37				38			
EXISTING LOAD	EXISTING TO REMAIN	20	39			-	40	30	EXISTING TO REMAIN	EXISTING LOAD
			41				42			
SPARE		20	43		-		44	20	EXISTING TO REMAIN	RECEPTACLES
SLICER	EXISTING TO REMAIN	20	45				46	20	EXISTING TO REMAIN	RECEPTACLES
RECEPTACLES	EXISTING TO REMAIN	20	47				48	20	EXISTING TO REMAIN	RECEPTACLES
RECEPTACLES	EXISTING TO REMAIN	20	49]		50	20	EXISTING TO REMAIN	RECEPTACLE BY PANEL
RECEPTACLE BY PANEL	EXISTING TO REMAIN	20	51				52	20	EXISTING TO REMAIN	RECEPTACLES
RECEPTACLES	EXISTING TO REMAIN	20	53				54	20	EXISTING TO REMAIN	RECEPTACLES
RECEPTACLES	EXISTING TO REMAIN	20	55]		56	20	EXISTING TO REMAIN	RECEPTACLES
RECEPTACLES	EXISTING TO REMAIN	20	57			1	58	20	EXISTING TO REMAIN	RECEPTACLES
LIGHTS CRAWL SPACE	EXISTING TO REMAIN	20	59				60	20	EXISTING TO REMAIN	LIGHTS WALK IN BOX
ROOF FAN #22	EXISTING TO REMAIN	20	61		1		62	20	EXISTING TO REMAIN	HEATER WALK IN BOX
EXISTING LOAD	EXISTING TO REMAIN	20	63			-	64	20	EXISTING TO REMAIN	PUMP #2
REFRIGERATOR	EXISTING TO REMAIN	20	65				66	0	EXISTING TO REMAIN	EXHAUST FAN
SPARE		20	67				68	20		SPARE
SPARE		20	69			-	70	20		SPARE
SPARE		20	71				72	20		SPARE
CONN	ECTED LOAD PER PHA	SE IN D IN I		0	0	(NEL TYPE:	NEMA 1 MC , EQUIP. GROUND BAR	DUNTING: RECESSED

PANEL SCHEDULE

REV 3 09-14-23BIDDING DOCUMENTS REV 2 06-09-23 SED ADDENDUM #1 REV 1 12-28-22 BIDDING DOCUMENTS No. Date Revisions			
REV 3 09-14-23BIDDING DOCUMENTS REV 2 06-09-23 SED ADDENDUM #1 REV 1 12-28-22 BIDDING DOCUMENTS No. Date Revisions			
REV 3 09-14-23BIDDING DOCUMENTS REV 2 06-09-23 SED ADDENDUM #1 REV 1 12-28-22 BIDDING DOCUMENTS No. Date Revisions			
REV 3 09-14-23 BIDDING DOCUMENTS REV 2 06-09-23 SED ADDENDUM #1 REV 1 12-28-22 BIDDING DOCUMENTS No. Date Revisions			
REV 3 09-14-23 BIDDING DOCUMENTS REV 2 06-09-23 SED ADDENDUM #1 REV 112-28-22 BIDDING DOCUMENTS No. Date Revisions			
REV 2 09–14–23 BIDDING DOCUMENTS REV 2 06–09–23 SED ADDENDUM #1 REV 1 12–28–22 BIDDING DOCUMENTS No. Date Revisions			
REV 2 06-09-23 SED ADDENDUM #1 REV 1 12-28-22 BIDDING DOCUMENTS No. Date Revisions	REV 3	09-14-23	BIDDING DOCUMENTS
REV 112–28–22 BIDDING DOCUMENTS No. Date Revisions	REV 2	06-09-23	SED ADDENDUM #1
Date	REV 1	12-28-22	BIDDING DOCUMENTS
_	No.	Date	Revisions

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REPLACEMENT A
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ELEMENTARY
D # 50-82CHO8L0-00



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		PA	NEL SCHEDULE						PA	NEL SCHEDU	LE			
PANEL NAME:	New Panel "PB"	LOCATION:	Boiler 110	MOUNTING:	Surface	PANEL NAME:	New Panel "PD"	LOC	ATION:		Shop 108		MOUNTING:	Recessed
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PANEL (AMP)	500A	FREQUENCY:	60 Hz	VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PANE	L (AMP)		150A		FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEDER SIZE	Match Existing	FEEDING SOURCE:		PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEED	ER SIZE	Ma	atch Existing		FEEDING SOURCE:	
MAIN BREAKER TYPE	MLO	MAIN BREAKER	MLO	BRANCH C.B TYPE	MCB	MAIN BREAKER TYPE	MLO	100000000000000000000000000000000000000	BREAKER NG (A):		150A		BRANCH C.B TYPE	MCB
		RATING (A):	ase Load in VA					KAII	T	ase Load in V	'A			
Load Designation	Wiring	C/B (A) CT AØ	BØ CØ C/B (A)	Wiring	Load Designation	Load Designation	Wiring	C/B (A) C		BØ		C/B (A)	Wiring	Load Designation
CLOCKS	EXISTING TO REMAIN	20 1	2 20	EXISTING TO REMAIN	HOTWATER CIR. PUMP #1	SPARE		20			2	20	EXISTING TO REMAIN	EXISTING LOAD
STORAGE ROOM LIGHTS	EXISTING TO REMAIN	20 3	4 20	EXISTING TO REMAIN	HOTWATER CIR. PUMP #2	EXISTING LOAD	EXISTING TO REMAIN	20	2		4	20	EXISTING TO REMAIN	EXISTING LOAD
REFRIG OUTLETS WATERS	EXISTING TO REMAIN	20 5	6 20	EXISTING TO REMAIN	NEW COMP PUMP	EXISTING LOAD	EXISTING TO REMAIN	20	7		6	20	EXISTING TO REMAIN	EXISTING LOAD
		7	8			EXISTING LOAD	EXISTING TO REMAIN	20			8	20	EXISTING TO REMAIN	EXISTING LOAD
SUMP 1 & 2	EXISTING TO REMAIN	20 9	10 20	EXISTING TO REMAIN	PUMP #2	EXISTING LOAD	EXISTING TO REMAIN	20			10	20	EXISTING TO REMAIN	EXISTING LOAD
		11	12			EXISTING LOAD	EXISTING TO REMAIN	20 1			12	20	EXISTING TO REMAIN	EXISTING LOAD
		13	14			EXISTING LOAD	EXISTING TO REMAIN	20 1	3		14	20	EXISTING TO REMAIN	EXISTING LOAD
GUIDANCE OFFICE A/C	EXISTING TO REMAIN	50 15	16 20	EXISTING TO REMAIN	PUMP #4			1	5		16			
		17	18			EXISTING LOAD	EXISTING TO REMAIN	20 1			18	20	EXISTING TO REMAIN	EXISTING LOAD
		19	20					1	9]	20			
COMP. 1	EXISTING TO REMAIN	20 21	20	EXISTING TO REMAIN	HOT WATER PUMP			2	1					
		23	22			EXISTING LOAD	EXISTING TO REMAIN	20 2	3		22	20	EXISTING TO REMAIN	EXISTING LOAD
		25	24			2,11311114 23113		2	5		24			2
		20 27	26					2	7		26			
COMP. 2	EXISTING TO REMAIN	20	28 20	EXISTING TO REMAIN	SPARE			2	9		28			
		2.9	30			EXISTING LOAD	EXISTING TO REMAIN	20		_	30	20	EXISTING TO REMAIN	EXISTING LOAD
		31	32					3	1		32			
PUMP #1	EXISTING TO REMAIN	20 33	30	EXISTING TO REMAIN	PUMP #3			3	3		7.4			
		35	75			EXISTING LOAD	EXISTING TO REMAIN	20 3	5		76	20	EXISTING TO REMAIN	EXISTING LOAD
		37	30					3	7		70			
OUTSIDE POLE LGTS.	EXISTING TO REMAIN	40 39	38	EXISTING TO REMAIN	EXISTING LOAD			3	9		40			
		41	40			EXISTING LOAD	EXISTING TO REMAIN	20 4	1		40	20	EXISTING TO REMAIN	EXISTING LOAD
		43	42					4	3		44			
CABRINETTE	EXISTING TO REMAIN	50 45	44	EXISTING TO REMAIN	KITCHEN			4	5		44			
		47	40			EXISTING LOAD	EXISTING TO REMAIN	20 4	7		46	20	EXISTING TO REMAIN	EXISTING LOAD
		49	48					4		<u> </u>	48			
PANEL LB UVB	EXISTING TO REMAIN	70 51	50	EXISTING TO REMAIN	BURNER			5	1		50			
TARLE ED OVE	EXISTING TO REMAIN	53	52	EXISTING TO REMAIN	BONNEN	EXISTING LOAD	EXISTING TO REMAIN	20 5	3		52	20	EXISTING TO REMAIN	EXISTING LOAD
		55	54			2,113111113 23713		1 1	5	<u> </u>	54			2,1101.1110
PANEL BP	EXISTING TO REMAIN	30 57	56	EXISTING TO REMAIN	EXISTING LOAD			5	7		56			
FANEL DE	EXISTING TO REMAIN	59	58	EXISTING TO REMAIN	EXISTING LOAD	EXISTING LOAD	EXISTING TO REMAIN	20 5	9		58	20		SPARE
		61	60			EXISTING EGAD	EXISTING TO REMAIN	6		+ -	60			31 AILL
DANELLE	EVICTING TO DEVIAN	100 63	62	EVICTING TO DEVIAN	EVICTING LOAD			6	3		62	20		SPARE
PANEL LF	EXISTING TO REMAIN	65	64 100	EXISTING TO REMAIN	EXISTING LOAD	SPARE		20 6			64	20		SPARE
		67	66	-		STAKE		20 6			66	20		
		60	68			CDARE				1	68			SPARE
SPARE		20 69 71	70 20		SPARE	SPARE		 	1		70			SPARE
		7 1	72			SPARE		20 /	1001		72	20		SPARE
CONNE	CCTED LOAD PER PHA	SE IN VA C	0 0 PANEL TYPE		OUNTING: SURFACE	CONI	NECTED LOAD PER PHA	ASE IN V	Α (0				UNTING: RECESSED
TO	TAL CONNECTED LOAD	O IN KVA	DOOR: INDO	S, EQUIP. GROUND BAR		1	OTAL CONNECTED LOA			0			S, EQUIP. GROUND BAR OOR TYPE	
	TOTAL DEMAND LOAD	IN AMPS	0.00	S-111 M			TOTAL DEMAND LOAD	IN AMP	S	0.00			-	

			REV 3 09-14-23 BIDDING DOCUMENTS	REV 2 06-09-23 SED ADDENDUM #1	REV 1 12-28-22 BIDDING DOCUMENTS	Revisions
-			09-14-23	06-09-23	12-28-22	Date
			REV 3	REV 2	REV 1	No.

REG. EXP. DATE: 04-30-24

Checked by
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Project No.
42052
Scale

GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUITE 202 SUITERN, NY 10901	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 STITTE 202 STITTE 202
Mechanical & Electrical Engineer:	Structural Engineer:

UNIVENT
REPLACEMENT AT
FARLEY
ELEMENTARY
D # 50-&CHORLOGOLO03-011



PANEL NOTES:

- PANEL BOARDS SHALL INCLUDE ALL APPLICALBE UL AND PORODUCT SAFETY LABELS AS REQUIRED BY NEMA PB1 AND UL LISTED STANDARDS.
- ALL PRODUCTS WHICH ARE NOT VERIFIABLE TO BE UL LISTED WILL NOT BE ACCEPTED.
- 3. THE ELECTRICAL CONTRACTOR MUST FIELD VERIFY THE EXISTING FEED TO ALL EXISITNG PANELS AND INFORM EATON OR APPROVED EQUAL HOW EACH EXISTING PANEL IS FED (i.e. BOTTOM FED OR TOP FED). PRIOR TO ORDERING THE PANEL. SHOULD AN INCORRECTLY FED BE ORDERED THE ELECTRICAL CONTRACTOR SHALL REPLACE THE PANEL AT NO ADDITIONAL COST

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Drawing Title

ELECTRICAL PANEL

Drawing Title
ELECTRICAL PANEI
SCHEDULES #7

				PA	NEL SCHE	DULE					
PANEL NAME:	New Panel "PP-1"	L	OCAT	TON:	Е	lec. Servic	e 126	4	MOUNTING:	Surface	
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL ((AMP)		100A			FREQUENCY:	60 Hz	
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEEDER SIZE 4#3+1#8G-1			1/2"()	FEEDING SOURCE:	MDB2			
MAIN BREAKER TYPE	MLO			EAKER G (A):		MLO			BRANCH C.B TYPE	MCB	
					ase Load in	n VA					
Load Designation	Wiring	C/B (A)	CT	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation	
SPARE		20	1				2	20	2#12+1#12G-3/4"C	RECPT AT 126A	
(EXISTING MDB CKT#1) FAN#7	MATCH EXISTING	20	5				6	20	(EXISTING MDB CKT#2)MATCH EXISTING	FAN#4	
(EXISTING MDB CKT#3) EXISTING FAN#3	MATCH EXISTING	20	11				10	20	MATCH EXISTING	(CKT#4) FROM EXIST. MDB. ELEC. CONTRACTOR TO TRACE CIRCUIT AND UPDATE CIRCUIT INFO.	
XIST. CKT FROM PP-RTU	2#12+1#12G-3/4"C	20	15				16	20	2#12+1#12G-3/4"C	EXIST. CKT FROM PP-RTU	
STANCION RECEPTACLES	2#10+1#10G-1"C	20	17			360 180	18	20	2#10+1#10G-1"C	STANCION RECEPTACLES	
FOR CEILING CASSETTE	2#12+1#12G-3/4"C	20	19	480 480			20	20	2#12+1#12G-3/4"C	FOR CEILING CASSETTE	
BC-1	2#12+1#12G-3/4°C	20	21		100	100	22	20	2#12+1#12G-3/4°C	BC-2	
BC-3B	2#12+1#12G-3/4°C	20	25	100	100		26	20	2#12+1#12G-3/4"C	BC-4	
BC-3A	2#12+1#12G-3/4"C	20	31	100		100	30	20	2#12+1#12G-3/4"C	LTG @ 158A, 159A SPARE	
SPARE		20	33			-	32	20		SPARE	
SPARE		20	35				34	20		SPARE	
SPARE		20	37		-		38				
SPARE		20	39			1	40	40	4#6+1#8-1 1/4"C	PANEL "LP1"	
SPARE		20	41				42				
CONNE	CTED LOAD PER PHA	SE IN		1260	400	840	PAN	IEL TYPE PPER BUS DR: INDO	6, EQUIP. GROUND BAR	OUNTING: SURFACE	

	PANEL SCHEDULE											
	PANEL NAME:	New Panel "LD2"	LC	CAT	ION:		Custodial 2	200C		MOUNTING:	Recessed on Wall	
	VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PAN	VEL (AMP)		225A			FREQUENCY:	60 Hz	
	PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEE	FEEDER SIZE			4#2+1#6G	-2"C		FEEDING SOURCE:		
	MAIN BREAKER TYPE	MCB		N BRE	AKER (A):		70A			BRANCH C.B TYPE	МСВ	
	Load Designation	Wiring		ОТ	Pha	se Load in	VA	OT I		Wiring	Load Designation	
			C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)			
	CORRIDOR LGTS.	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	CORRIDOR LGTS.	
	CEIL. RM. 203	EXISTING TO REMAIN	20	3				4	20	EXISTING TO REMAIN	CEIL. RM. 203	
	CEIL. RM. 203	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	OVERHEAD AND TOILET LIGHTS	
	CEILING LIGHTS RM. 210	EXISTING TO REMAIN	20	7				8	20	EXISTING TO REMAIN	CEIL. LGTS 206	
	CEIL. LGTS 206	EXISTING TO REMAIN	20	9				10	20	EXISTING TO REMAIN	CEIL. LGTS 206	
	CEIL. RM. 203	EXISTING TO REMAIN	20	11				12	20	EXISTING TO REMAIN	CEIL. RM. 203	
	CEIL. RM. 203	EXISTING TO REMAIN	20	13				14	20	EXISTING TO REMAIN	CEIL. RM. 202	
J	CEIL. RM. 202	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	CEIL. RM. 202	
	RECP. TO RM 203-203	EXISTING TO REMAIN	20	17				18	20	EXISTING TO REMAIN	RECP. TO RM 203-206	
	REC. ON DEPT. 210	EXISTING TO REMAIN	20	19				20	20	EXISTING TO REMAIN	REC. IN CORRIDOR	
	CEIL. LGTS 211	EXISTING TO REMAIN	20	21				22	20	EXISTING TO REMAIN	CEIL. LGTS 211	
	CEIL. LGTS 211	EXISTING TO REMAIN	20	23				24	20	EXISTING TO REMAIN	CEIL. LGTS FAN ROOM	
	EXISTING LOAD	EXISTING TO REMAIN	20	25				26	20	EXISTING TO REMAIN	REC. IN FAN RM & 204	
	ROOM 111 LIGHTING	EXISTING TO REMAIN	20	27				28	20	EXISTING TO REMAIN	EXISTING LOAD	
	EXISTING LOAD	EXISTING TO REMAIN	20	29				30	20	EXISTING TO REMAIN	COMPUTER RECEP.	
	EXISTING LUMD	ENISTING TO REMAIN	20	31				32	20	EXISTING TO REMAIN	COMPUTER RECEP.	
	SPARE		20	33	_			34	20		SPARE	
	SPARE		20	35				36	20		SPARE	
	SPARE		20	37				38	20		SPARE	
	SPARE		20	39				40	20		SPARE	
	SPARE		20	41				42	20		SPARE	
	CONNF	CTED LOAD PER PHA	SE IN	VA	0	0	0	PAN	EL TYPE:	NEMA 1 MG	OUNTING: RECESSED	
		TAL CONNECTED LOAI				0		COP	PER BUS	, EQUIP. GROUND BAR		
TOTAL DEMAND LOAD IN AMPS 0.00 DOOR: INDOOR TYPE								JK IYPE				

				PAN	NEL SCHE	DULE				
PANEL NAME:	New Panel "UVC"	LC	CATI	ON:		Custodial 2	200C		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PAI	PANEL (AMP)			100A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEE	FEEDER SIZE		4#	#4+1#6G-1	1/2"(0	FEEDING SOURCE:	
MAIN BREAKER TYPE	MCB	11000000 00000	N BRE	AKER (A):		40A			BRANCH C.B TYPE	MCB
Load Designation	Wiring			Phase L		ı VA			Wiring	Load Designation
Load Designation	Willing	C/B (A)	CT NO	AØ	ВØ	CØ	CT NO	C/B (A)	wining	Load Designation
UNIVENTS RM. 212	MATCH EXISTING	20	1				2	20	MATCH EXISTING	UNIVENTS RM. 214-216
UNIVENTS RM. 217	MATCH EXISTING	20	3				4	20	MATCH EXISTING	UNIVENTS RM. 202-203
UNIVENT RM. 206	MATCH EXISTING	20	5				6	20	MATCH EXISTING	UNIVENTS RM. 204
EXISTING LOAD	MATCH EXISTING	20	7				8	20	MATCH EXISTING	EXISTING LOAD
EXISTING LOAD	MATCH EXISTING	20	9				10	20		SPARE
SPARE		20	11				12	20		SPARE
SPARE		20	13				14	20		SPARE
SPARE		20	15				16	20		SPARE
SPARE		20	17				18	20		SPARE
CONN	VA	0	0	0		IEL TYPE:		OUNTING: RECESSED		
T	(VA					PPER BUS DR: INDOC	, EQUIP. GROUND BAR OR TYPE			
	TOTAL DEMAND LOAD	IN AM	1PS	0.00					L BE IN A NEMA-3R ENCLOS	SURE

6.94

TOTAL DEMAND LOAD IN AMPS

				PAN	NEL SCHE	DULE				
PANEL NAME:	NEW PANEL "LP1"	LC	DCAT	ION:	EI	ec. Servic	e 126	A	MOUNTING:	Surface
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	PANEL (AMP)			100A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FE	EDER	SIZE	4#	#6+1#8G-1	1/4"	С	FEEDING SOURCE:	PANEL PP-1
MAIN BREAKER TYPE	MLO		N BRI	EAKER 5 (A):		MLO			BRANCH C.B TYPE	MCB
Land Baring Africa	Mining.			Pha	se Load ir	ı VA			NAC minutes	Lead Designation
Load Designation	Wiring	C/B (A)	CT NO	ΑØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
YM, LABEL, KITCHEN & NORTH CORRIDORS	EXISTING TO REMAIN	20	1				2	- 20	EXISTING TO REMAIN	CORR. SOUTH BLDGS
CORR. NEAR ROOM 152	EXISTING TO REMAIN	20	3				4	20	EXISTING TO REMAIN	EXISTING LOAD
CORRIDOR	2#10+1#12G-3/4"C	20	5	,	,	400 400	6	20	2#10+1#12G-3/4"C	CORRIDOR
CORRIDOR	2#10+1#12G-3/4"C	20	7	400 400			8	20	2#10+1#12G-3/4"C	CORRIDOR
CORRIDOR	2#10+1#12G-3/4"C	20	9		400 400		10	20	2#10+1#12G-3/4"C	CORRIDOR
CORRIDOR	2#10+1#12G-3/4"C	20	11			400 160	12	20	2#12+1#12G-3/4"C	ELECTRICAL ROOM
EXIT LIGHT	2#10+1#12G-3/4"C	20	13	30			14	20		SPARE
EXIT LIGHT	2#10+1#12G-3/4"C	20	15		30		16	20		SPARE
SPARE		20	17				18	20		SPARE
SPARE		20	19				20	20		SPARE
SPARE		20	21				22	20		SPARE
SPARE		20	23				24	20		SPARE
SPARE		20	25				26	20		SPARE
SPARE		20	27				28	20		SPARE
SPARE		20	29				30	20		SPARE
	CONNECTED LOAD PER PHASE IN V TOTAL CONNECTED LOAD IN KV TOTAL DEMAND LOAD IN AMP					1360	COI	NEL TYPE PPER BUS OR: INDO	S, EQUIP. GROUND BAR	DUNTING: SURFACE

			REV 3 09-14-23 BIDDING DOCUMENTS	REV 2 06-09-23 SED ADDENDUM #1	REV 1 12-28-22 BIDDING DOCUMENTS	Revisions
			09-14-23	06-09-23	12-28-22	Date
			REV 3	REV 2	REV 1	No.
						-24

REG. EXP. DATE: 04-30-24
DATE:
EXP.
REG.

		 	,	
GREENMAN	PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 STITEMEN, NY 10901	GREENMAN	PEDERSEN, INC	SUITE 202 SUFFERN, NY 10901
Mechanical	& Electrical Engineer:		Structural Engineer:)



- PANEL BOARDS SHALL INCLUDE ALL APPLICALBE UL AND PORODUCT SAFETY LABELS AS REQUIRED BY NEMA PB1 AND UL LISTED STANDARDS.
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- 3. THE ELECTRICAL CONTRACTOR MUST FIELD VERIFY THE EXISTING FEED TO ALL EXISITNG PANELS AND INFORM EATON OR APPROVED EQUAL HOW EACH EXISTING PANEL IS FED (i.e. BOTTOM FED OR TOP FED). PRIOR TO ORDERING THE PANEL. SHOULD AN INCORRECTLY FED BE ORDERED THE ELECTRICAL CONTRACTOR SHALL REPLACE THE PANEL AT NO ADDITIONAL COST

				PA	NEL SCHED	ULE				
PANEL NAME:	New Panel "Sub-A"	LC	CAT	ION:		Storage	155		MOUNTING:	Surface
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	NEL (AMP)		600A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEI	EDER	SIZE		of 4#500M existing 3		/0G in	FEEDING SOURCE:	MDB1
MAIN BREAKER TYPE	MLO			EAKER G (A):		MLO			BRANCH C.B TYPE	MCB
		10			ase Load in	ı VA				
Load Designation	Wiring	C/B (A)	СТ	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
			1				2			
PANEL PE	EXISTING TO REMAIN	200	3				4	70	EXISTING TO REMAIN	PANEL LF & LG
			5				6			
			7		†		8			
PANEL LA & LC	EXISTING TO REMAIN	100	9				10	90	EXISTING TO REMAIN	PANEL PH
			11				12			
			13				14			
PANEL PG	EXISTING TO REMAIN	90	15				16	70	EXISTING TO REMAIN	PANEL LB & LD
							18			
			19				20			
EXISTING LOAD	EXISTING TO REMAIN	70	21				22	70	EXISTING TO REMAIN	EXISTING LOAD
			25				24			
							26			
SCIENCE ROOM OUTLET	EXISTING TO REMAIN	50	27				28	50	EXISTING TO REMAIN	LIBRARY AIR CONDITION
							30			
			31		-		32			
LIBRARY AIR CONDITION	EXISTING TO REMAIN	50	33				34	40	EXISTING TO REMAIN	PANEL UVA & UVB
			35				36			
			37				38			
PANEL LE & LH	EXISTING TO REMAIN	70	39				40	70	EXISTING TO REMAIN	EXISTING LOAD
			41				42			
					-		44			
CORRIDOR LGTS.	EXISTING TO REMAIN	70	45 47				46	70	EXISTING TO REMAIN	EXISTING LOAD
			49				48			
CORRIDOR LGTS.	EXISTING TO REMAIN	30	51				50	30	EXISTING TO REMAIN	AIR CONDITION 211
CORRIDOR E013.	EXISTING TO REMAIN	30	53				52	30	EXISTING TO REMAIN	AIR CONDITION 211
			55				54			
EXISTING LOAD	EXISTING TO REMAIN	20	57				56 58	30	EXISTING TO REMAIN	EXISTING LOAD
			59							
			61		<u> </u>		60			
ROOF FLOOD LIGHTS	EXISTING TO REMAIN	20	63				62	20	EXISTING TO REMAIN	EXISTING LOAD
			65				66			
			67		+		68			
ROOF FLOOD LIGHTS	EXISTING TO REMAIN	20	69				70	60		SPARE
			71				40.000			
			73		<u> </u>		72			
SPARE		60	75				74	20		SPARE
-			77				76			
EVICTING LOAD	EVICTING TO DEVAN	20	79			_	78	20		CDADE
EXISTING LOAD	EXISTING TO REMAIN	20	81		1		80	20		SPARE
SPARE	SPARE	20	83				82	20		SPARE
SPARE	SPARE	20					84	20		SPARE
	CTED LOAD PER PHA			0		(DUNTING: SURFACE
	TAL CONNECTED LOAI TOTAL DEMAND LOAD				0.00		DOC	R: INDO	S, EQUIP. GROUND BAR OR TYPE IS A DISTRIBUTION TYPE PA	

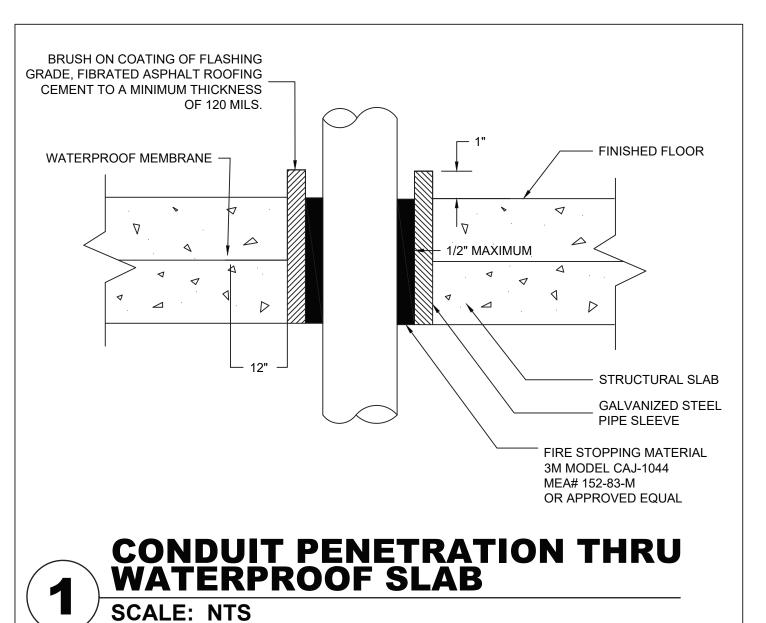
PANEL NAME:	New Panel "PH"	LC	CATI	ON:		Storage '	155		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PAI	NEL (A	AMP)		100A			FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA		DER		47	#4+1#8G-1	1/2"0		FEEDING SOURCE:	SUB DIST. A
MAIN BREAKER TYPE	MLO		N BRE	AKER (A):		MLO			BRANCH C.B TYPE	MCB
				Phase	Load in	ı VA				
Load Designation	Wiring	C/B (A)	CT NO	AØ	BØ	CØ	CT NO	C/B (A)	Wiring	Load Designation
FAN #10	EXISTING TO REMAIN	20	1				2	20	EXISTING TO REMAIN	FAN #9
FAN #8	EXISTING TO REMAIN	20	3				4	20	EXISTING TO REMAIN	FAN #4
FAN #3	EXISTING TO REMAIN	20	5				6	20	EXISTING TO REMAIN	SHUNT CR.
			7				8			
FAN #7	EXISTING TO REMAIN	20	9				10	20	EXISTING TO REMAIN	FAN #1
			11				12			
			13				14			
FAN #5	EXISTING TO REMAIN	20	15				16	20	EXISTING TO REMAIN	FAN #2
			17				18			
			19				20			
FAN #6	EXISTING TO REMAIN	20	21				22	20	EXISTING TO REMAIN	EXISTING LOAD
			23				24			
			25				26			
SPARE		20	27				28	20		SPARE
			29				30			
SPARE		20	31				32	20		SPARE
SPARE		20	33				34	20		SPARE
SPARE		20	35				36	20		SPARE
SPARE		20	37				38	20		SPARE
SPARE		20	39				40	20		SPARE
SPARE		20	41				42	20		SPARE
CONN	ECTED LOAD PER PHA	SE IN	VA	0	0	0				OUNTING: RECESSED
	OTAL CONNECTED LOA				0		COF	PER BUS	B, EQUIP. GROUND BAR OR TYPE	

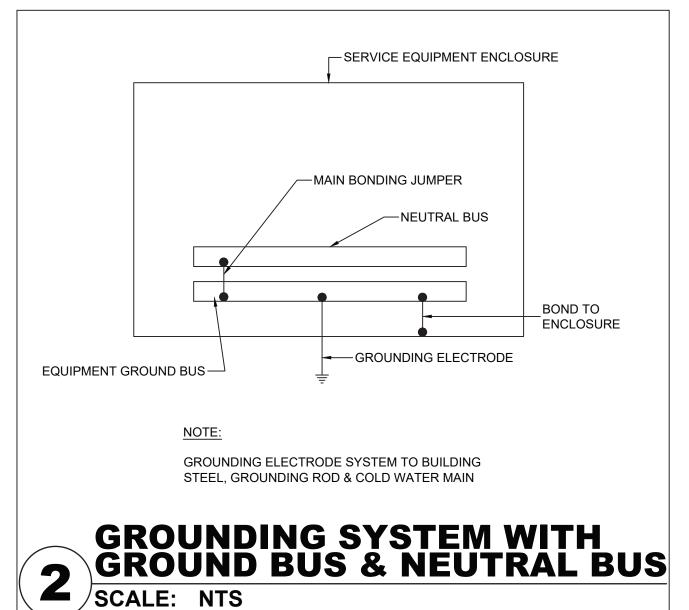
				PAN	NEL SCHE	DULE				
PANEL NAME:	New Panel "PF"	LC	OCAT	ION:		Storage 13	39A		MOUNTING:	Recessed on Wall
VOLTAGE/PHASE:	120/208V, 3 Phase, 4W & G	PA	PANEL (AI		AMP) 100				FREQUENCY:	60 Hz
PANEL SHORT CIRCUIT RATING(KA):	22 KA	FEI	EDER	SIZE	4	#4+1#8G-1	1/2"0		FEEDING SOURCE:	SUB DIST. A
MAIN BREAKER TYPE	MLO		N BRE	EAKER i (A):		MLO			BRANCH C.B TYPE	MCB
Load Designation	Wiring			Phase Load in VA			Wiring	Load Designation		
Load Designation	Willing	C/B (A)	CT NO	AØ	ВØ	СØ	CT NO	C/B (A)	willing	Load Designation
EXHAUST FAN	MATCH EXISTING	20	1				2	20	MATCH EXISTING	SPRAY HOOD
STORAGE OUTLETS	MATCH EXISTING	20	3				4	20	MATCH EXISTING	POWER POLE 103
KILN OUTLET	MATCH EXISTING	70	5 7 9				6 8 10	70	MATCH EXISTING	KILN OUTLET
SPARE		20	11				12	20		SPARE
SPARE		20	13				14	20		SPARE
SPARE		20	15				16	20		SPARE
SPARE		20	17				18	20		SPARE
TO	CTED LOAD PER PHA TAL CONNECTED LOAI TOTAL DEMAND LOAD	D IN F	KVA	0	0 0.00	0	COP	EL TYPE: PER BUS R: INDOC	, EQUIP. GROUND BAR	MOUNTING: RECESSED

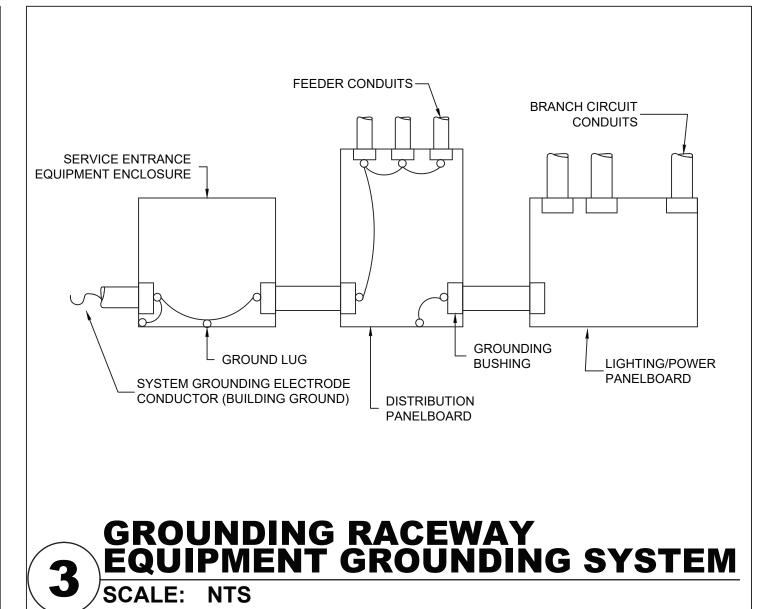
INC	INC
GREENMAN PEDERSEN, I 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, I 2 EKEUTIVE BOULEVARD SUITE 202
echanical Electrical ngineer:	ructural ngineer:

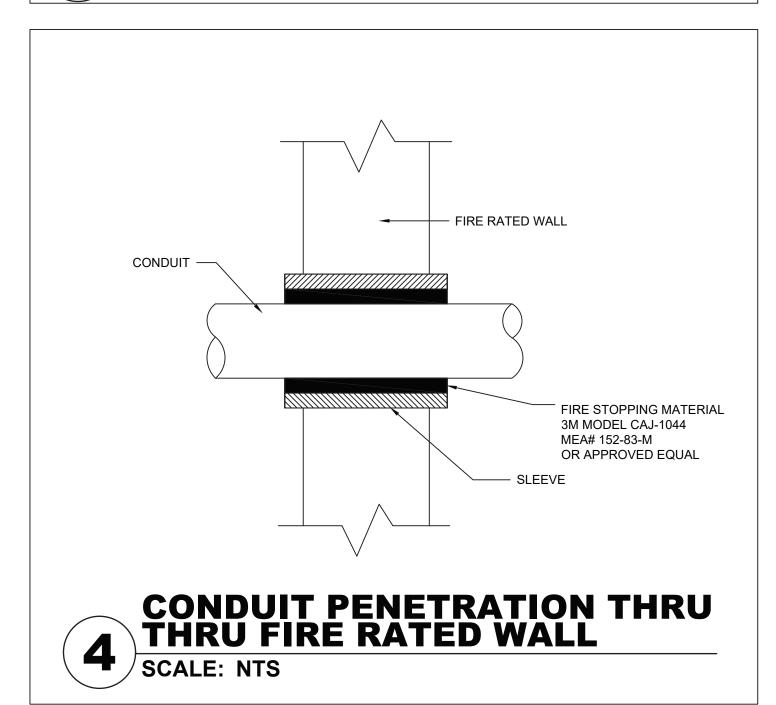


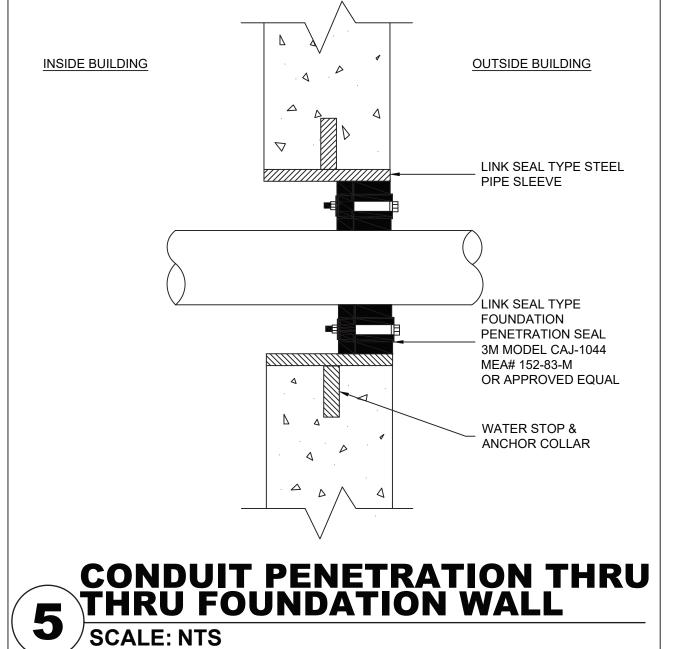
- PANEL BOARDS SHALL INCLUDE ALL APPLICALBE UL AND PORODUCT SAFETY LABELS AS REQUIRED BY NEMA PB1 AND UL LISTED STANDARDS.
- ALL PRODUCTS WHICH ARE NOT VERIFIABLE TO BE UL LISTED WILL NOT BE ACCEPTED.
- 3. THE ELECTRICAL CONTRACTOR MUST FIELD VERIFY THE EXISTING FEED TO ALL EXISITNG PANELS AND INFORM EATON OR APPROVED EQUAL HOW EACH EXISTING PANEL IS FED (i.e. BOTTOM FED OR TOP FED). PRIOR TO ORDERING THE PANEL. SHOULD AN INCORRECTLY FED BE ORDERED THE ELECTRICAL CONTRACTOR SHALL REPLACE THE PANEL AT NO ADDITIONAL COST

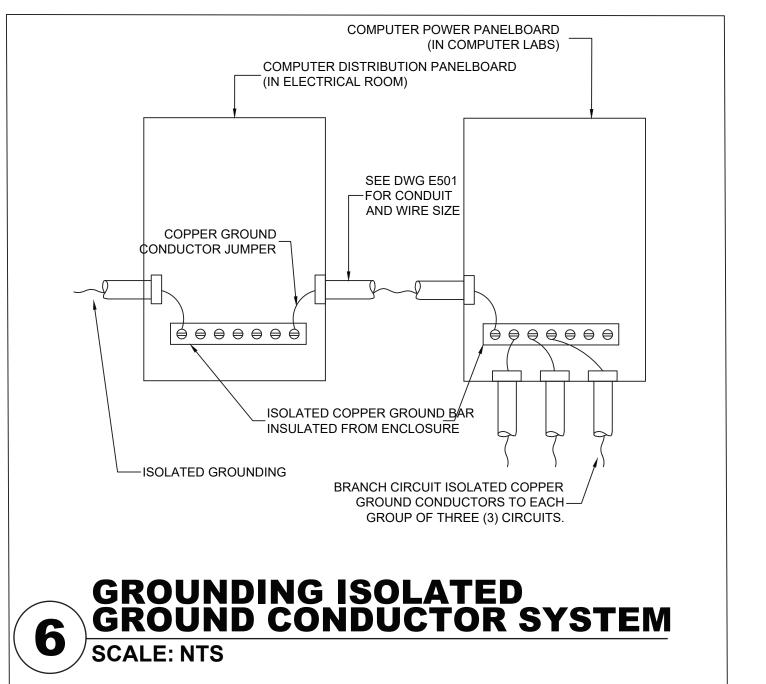


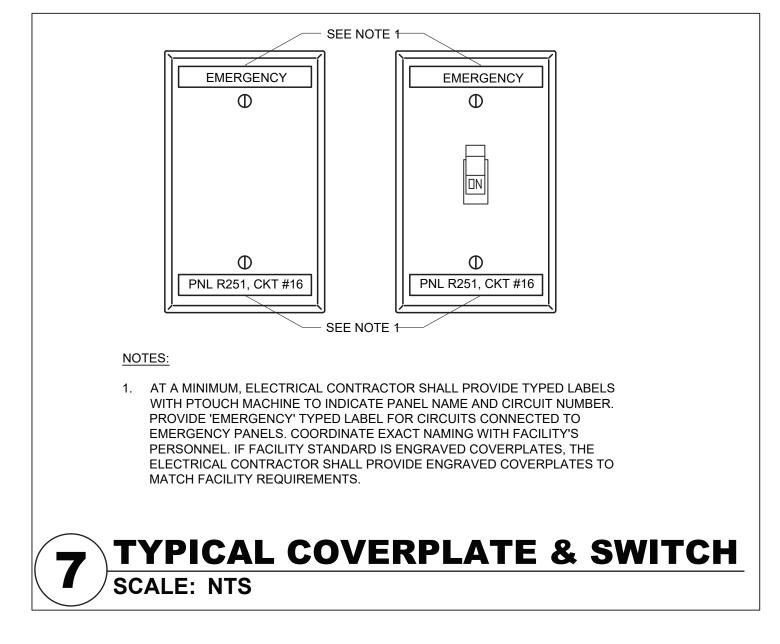


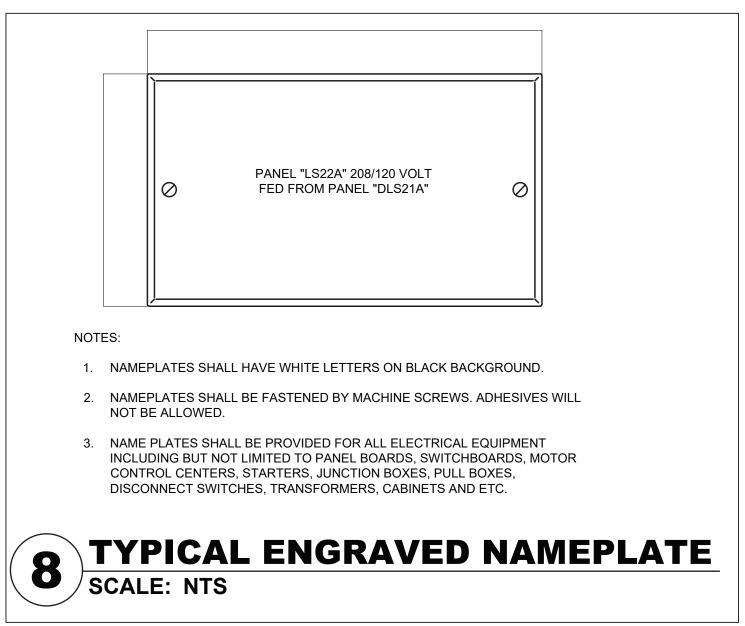


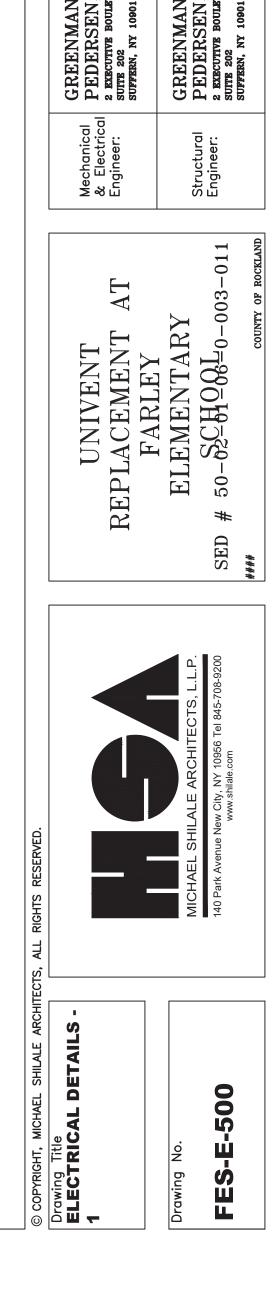


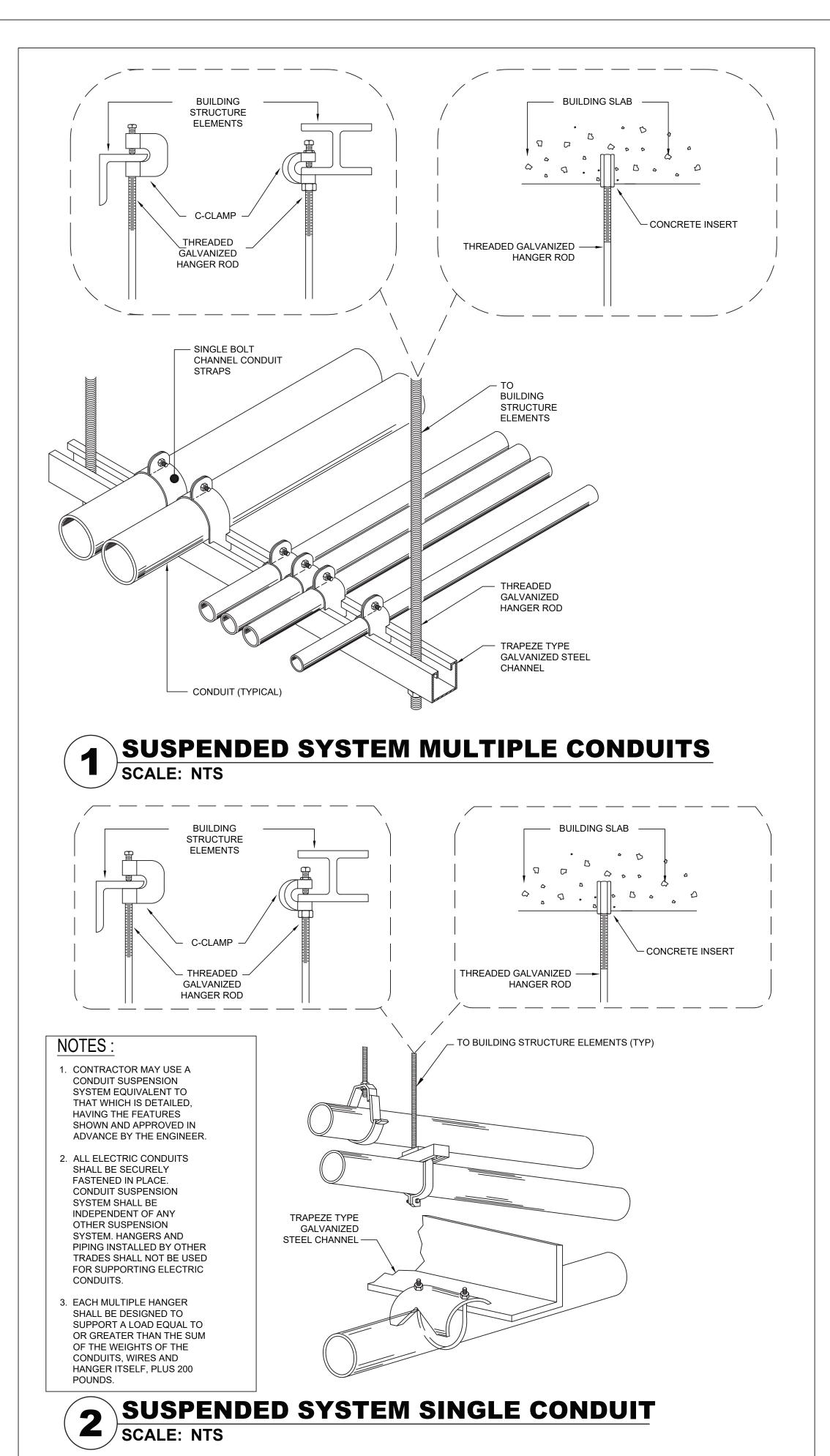


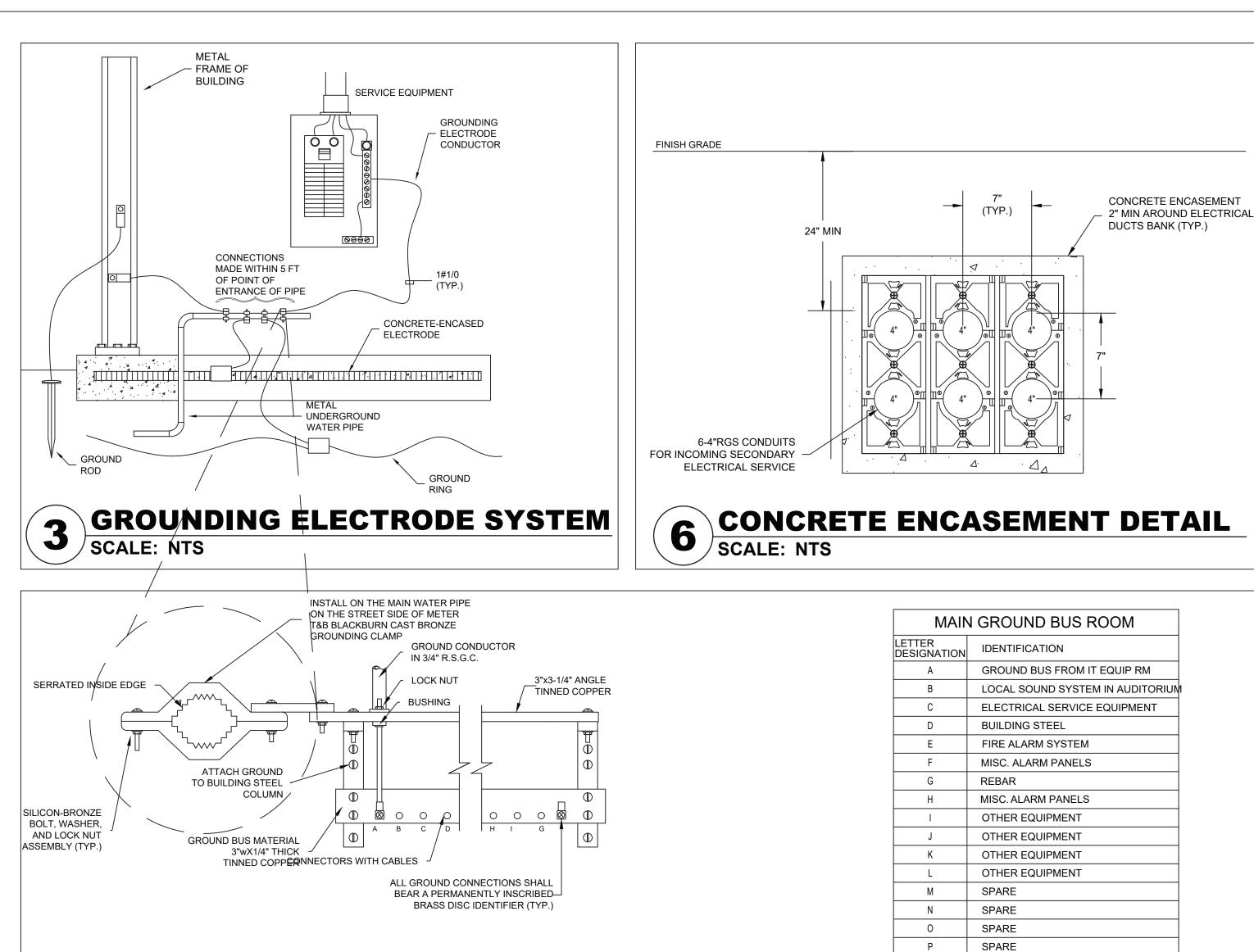












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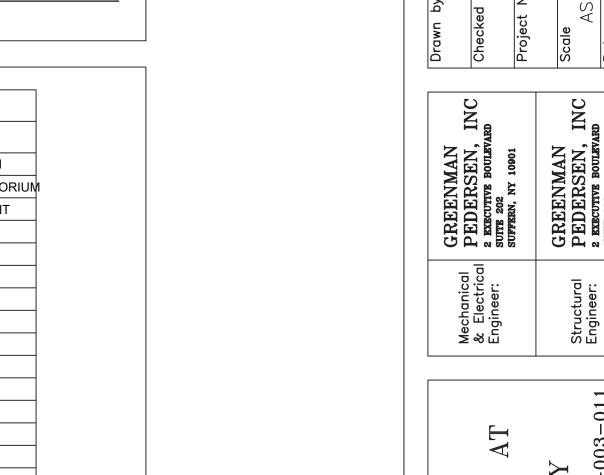
S,T,V, ETC... SPARE

SPARE

MAYIMI IM CONDUCTOR LENCTH (IN ET) AT 120V	95	160	245
MAXIMUM CONDUCTOR LENGTH (IN FT.) AT 120V MAXIMUM CONDUCTOR LENGTH (IN FT.) AT 208V,1PH	170	280	425
GROUND CONDUCTOR AWG	#12	#12	#12
CIRCUIT CONDUCTOR FROM PANEL TO PHYSICAL VOLTAGE DROP. 3% VOLTAGE DROP ASSUMED. 4. TRANSITION FROM LARGER CONDUCTOR SIZE TO OUTLET DEVICE. PROVIDE JUNCTION BOX WITHIN CONDUCTOR TO OUTLET.	#12 FOR F	NAL TERMIN	IATION TO

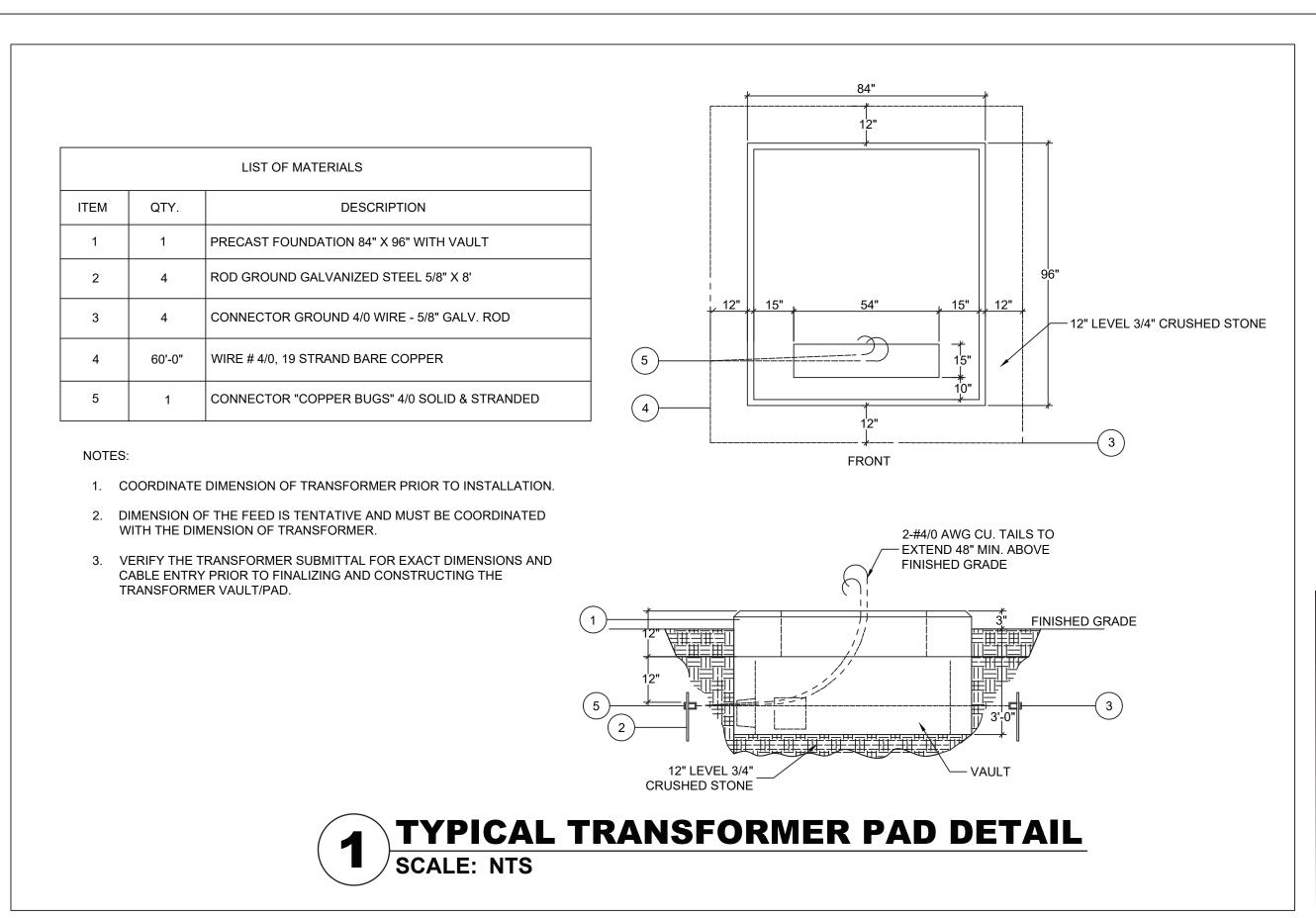
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GROUNDING CONNECTIONS AND GROUND BUS

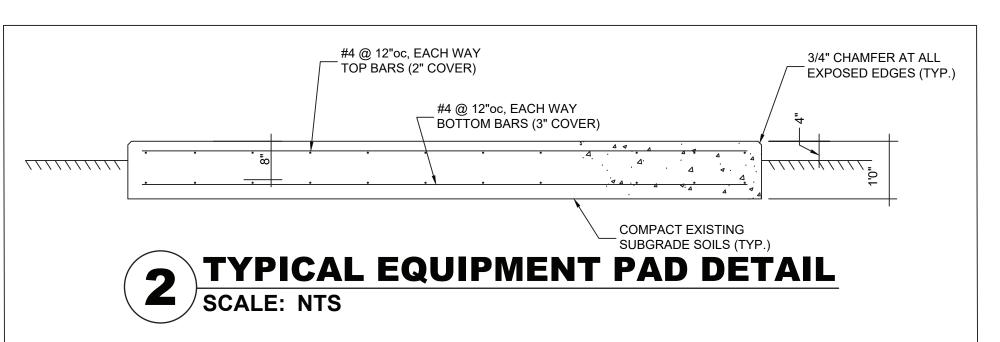


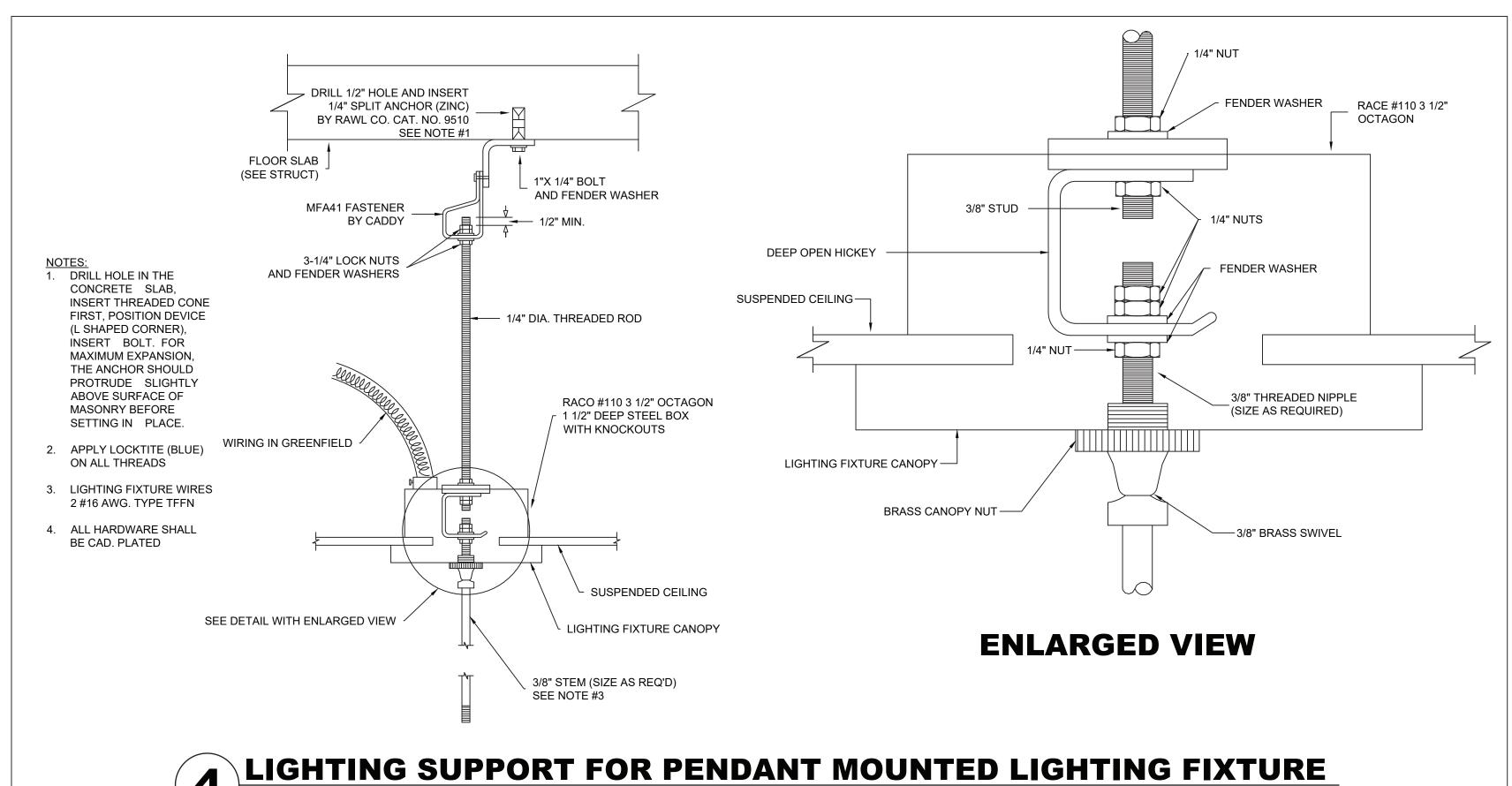


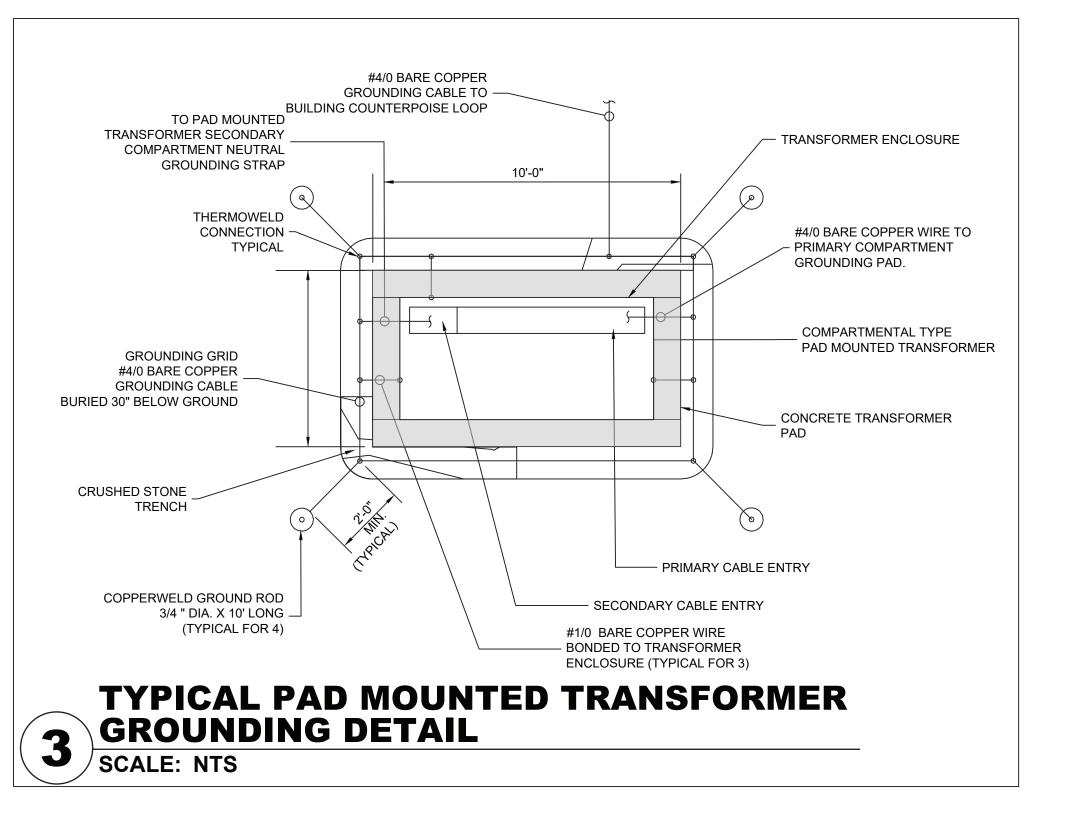
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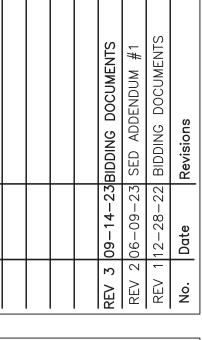


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GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901	GREENMAN PEDERSEN, INC 2 EKECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901
GREE] PEDE] 2 EXECUTI SUITE 202 SUITE 202	GREE] PEDE] 2 EXECUTI SUITE 202 SUITE 202
Mechanical & Electrical Engineer:	Structural Engineer:

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REPLACEMENT AT
FARLEY
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SED # 50-&CHORL003-011

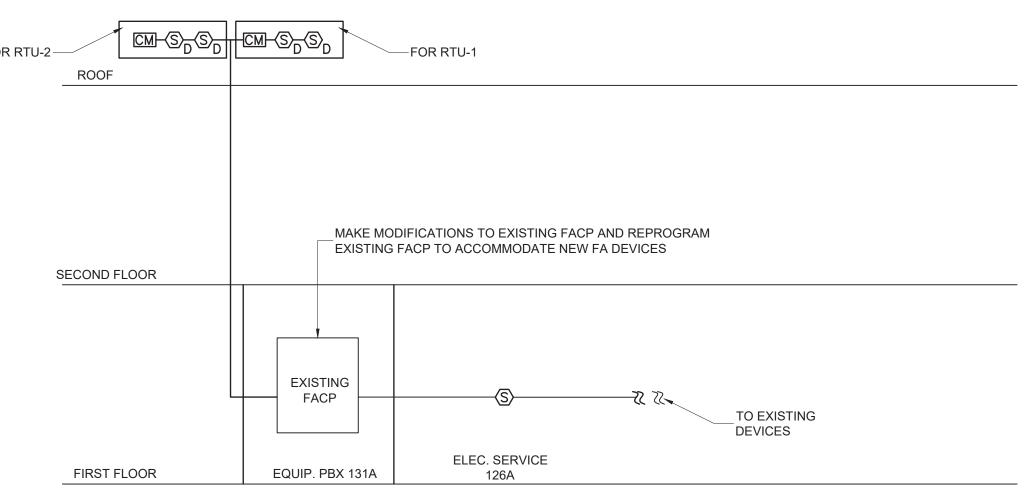


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GENERAL NOTES:

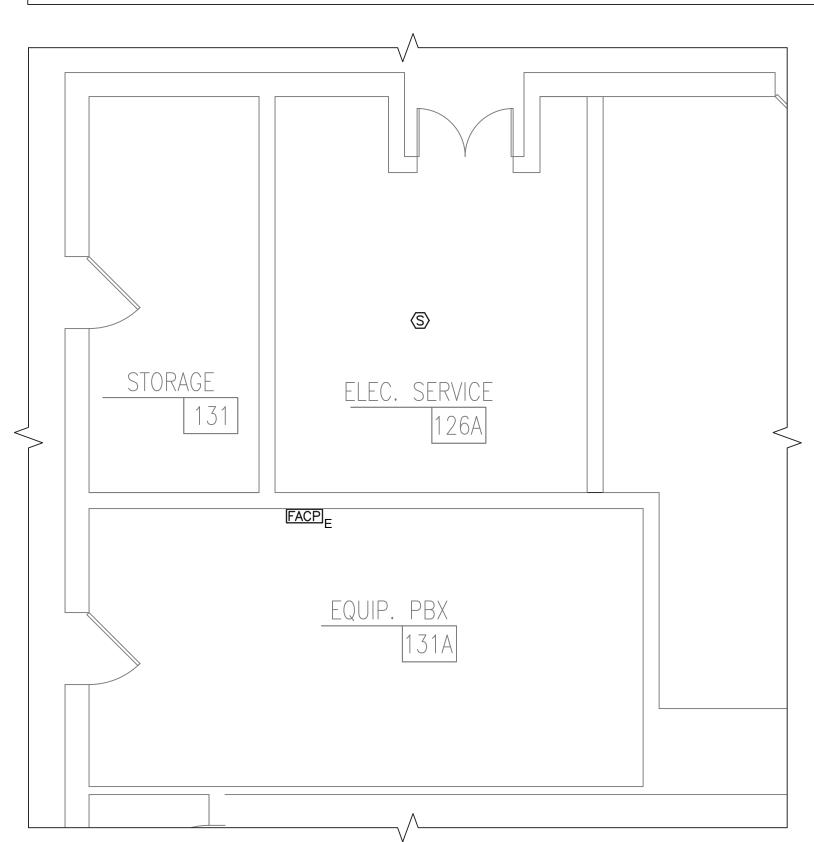
- THE EXISTING FIRE ALARM SYSTEM (MODEL # MS-9600UDLS BY SIEMENS), WILL BE UTILIZED TO INCLUDE ADDITIONAL FIRE ALARM DEVICES PERTAINING TO THIS FULL PROGRAM ACCESSIBILITY PROJECT AND SHALL BE REPROGRAMMED.
- 2. ALL WIRING, POWER, CONDUCTORS, CONDUITS ETC. SHALL MEET 2017 NEC AND 2020 NYSBC.
- 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2020 NYS BUILDING CODE AND IN ACCORDANCE WITH ADA GUIDELINES, AND 2019 NFPA 72.
- 4. ALL FIRE ALARM EQUIPMENT SHALL BE NYC APPROVED (MEA, BSA OR COA APPROVED) FOR THEIR INTENDED PURPOSES.
- 5. ALL FIRE ALARM CIRCUITS SHALL BE SIZED TO INCLUDE A MINIMUM OF 20% SPARE CAPACITY.
- 6. ALL FIRE ALARM CIRCUITS SHALL BE WIRED NFPA STYLE 4/Y/B (CLASS B) WITH THE EXCEPTION OF THE NETWORK CIRCUIT WHICH SHALL BE NFPA STYLE 7 (CLASS A WITH ISOLATION). DUAL CLASS B NETWORKING IS NOT STYLE 7 AND WILL NOT BE APPROVED. ALL AUDIBLE AND VISUAL CIRCUITS SHALL BE STYLE Y/CLASS B UNLESS THE CONTRACT DRAWINGS INDICATE NYC SPLIT A/B. A/B CIRCUITS SHALL BE WIRED SO THAT EVERY OTHER DEVICE IS WIRED ON AN ALTERNATE CIRCUIT.
- 7. CONDUITS MAY NOT ENTER THE TOP OF ANY FIRE ALARM EQUIPMENT CABINET.
- 8. VISUAL FIRE ALARM (STROBES) SHALL HAVE A MINIMUM 5'-0" CLEARANCE FROM ANY OBSTRUCTIONS AND SHALL BE RATED AT 75 CANDELA MINIMUM. ALL STROBES SHALL BE SYNCHRONIZED AT THE LINE OF SIGHT.
- 9. ALL GROUNDING SHALL BE AS PER NEC.
- 10. FIRE DEPARTMENT OF NEW YORK (FDNY) LETTER OF APPROVAL VERIFYING THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL BE PROVIDED.
- 11. ALL NEW FIRE ALARM SYSTEM SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH REQUIREMENTS OF NFPA 72, CHAPTER 14.
- 12. COMMUNICATION LOOPS SHALL BE WIRED AS CLASS "B" (LEVEL1). A BREAK OR GROUND FAULT IN ANY CONDUCTOR SHALL BE REPORTED AS A TROUBLE CONDITION.
- 13. EACH HORN SHALL HAVE A HIGH VOLUME SETTING BETWEEN 82 AND 91 DBA. EACH HORN SHALL HAVE AN ADJUSTABLE HI-LO DBA SETTING.
- 14. ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED WITH AESTHETICS IN MIND, AS FOLLOWS: PAINT ALL NEW CONDUIT AND BOXES TO MATCH EXISTING CONDITIONS, PATCH AND PAINT LOCATIONS OF REMOVED BOXES TO MATCH EXISTING.
- 15. ALL FIRE ALARM CABINETS AND JUNCTION BOXES SHALL BE PAINTED FIRE DEPARTMENT RED. ALL FIRE ALARM CABINETS SHALL BE CLEARLY LABELED.
- 16. ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. ALL TERMINALS SHALL BE NUMBERED AND LABELED. ALL CONNECTIONS SHALL BE EITHER SOLDERED, APPROVED TERMINAL STRIPS OR SCOTCH LOCKS.
- 17. ALL FIRE ALARM CONDUCTORS SHALL BE PROTECTED BY EITHER BUILDING CONSTRUCTION OR CONDUIT. LOADING DOCKS, GARAGES, SUPPRESSION AND EXTINGUISHING SYSTEM WIRING, MECHANICAL AND ELECTRICAL ROOMS AND OTHER LOCATIONS SUBJECT TO MECHANICAL DAMAGE SHALL BE IN FULL RIGID CONDUIT. IN ALL AREAS, NYC APPROVED WIRE MUST MEET NYC ARTICLE 760 AND CONNECT TO BUILDING CONSTRUCTION USING A NYC APPROVED MEANS.
- 18. FIRE ALARM CABLES SHALL NOT BE MIXED WITH NON FIRE ALARM CABLING. LOW VOLTAGE FIRE ALARM CABLING SHALL NOT BE MIXED OR WIRED NEAR ANY AC CIRCUIT.
- 19. ALL NOTIFICATION CIRCUITS SHALL BE A MINIMUM OF 14 AWG AND ALL OTHER LOW VOLTAGE FIRE ALARM CIRCUITS SHALL BE 16 AWG MINIMUM.
- 20. POLARITY SHALL BE OBSERVED ON ALL CIRCUITS. T-TAPPING SHALL NOT BE ALLOWED ON ANY NOTIFICATION CIRCUITS (HORN & STROBE). T-TAPPING SHALL NOT BE PERMITTED ON ADDRESSABLE CIRCUITS.
- 21. ALL WIRING SHALL BE INSPECTED TO ASSURE THERE ARE NO OPENS, SHORTS OR EARTH GROUNDS.
- 22. SHIELDED CONDUCTORS OR RUNNING IN SEPARATE RACEWAY SHALL BE AS INSTRUCTED BY THE FIRE ALARM MANUFACTURER'S DOCUMENTATION. ALL NON-POWER LIMITED WIRING SHALL BE RUN IN A SEPARATE RACEWAY.
- 23. FIRE ALARM EQUIPMENT SHALL BE POWERED THROUGH AN APPROVED FUSE DISCONNECT SWITCH (FDS) CONNECTED AHEAD OF THE MAIN SERVICE SWITCH. THE FDS SHALL BE LOCATED WITHIN 5 FT OF THE CONNECTION POINT, PAINTED RED AND SUPPLIED WITH A LOCK WITH KEY MAINTAINED ON THE PREMISES.
- 24. SMOKE DETECTORS MUST BE MOUNTED AT LEAST 3 FT AWAY FROM ANY AIR REGISTER.
- 25. ALL CEILING MOUNT DEVICES MUST BE SECURELY FASTENED TO BUILDING CONSTRUCTION.
- 26. DEVICE LOCATIONS MUST BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIR.
- 27. DUCT MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON THE DUCTWORK IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. DETECTORS SHALL BE PROVIDED WITH A REMOTE LED.
- 28. ALL MANUAL STATION SHALL BE INSTALLED SO THAT THEY ARE KEPT UN-OBSTRUCTED AT ALL TIMES. GC SHALL COORDINATE & PROVIDE ALL REQUIRED INSTALLATIONS. SUBMIT PRODUCT DATA & DETAILS OF INSTALLATION COORDINATED WITH EXISTING CONDITIONS.
- 29. ALL STROBE LIGHTS SHALL BE ADA AND UL-1971 APPROVED/LISTED. THE MINIMUM CANDELA IS 75 UNLESS OTHERWISE NOTED. A 15/75 STROBE MAY BE UTILIZED WHERE 15 CANDELA STROBES MEET 2002 NFPA 72 REQUIREMENTS (CORRIDORS AND 20 X 20 SPACES).
- 30. ALL AUXILIARY RELAYS FOR AMPER CONTROL, ELEVATOR CONTROL, ETC SHALL BE WIRED A MAXIMUM OF 3 FT FROM THE CONTROLLED DEVICE. THE AUXILIARY RELAY SHALL FUNCTION WITHIN THE REQUIRED VOLTAGE AND CURRENT OF THE CONTROLLED DEVICE. SLAVE OR INTERPOSING RELAYS SHALL BE INCLUDED AND POWERED BY THE FIRE ALARM CONTROL PANEL IN A FAIL-SAFE (FIRE FUNCTION) POSITION. POWER TO THE INTERPOSING RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
- 31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL ABANDONED FIRE ALARM CABINETS, DEVICES, CONDUIT AND WIRE. PAINT, PATCH AND CLEANUP SHALL ALSO BE INCLUDED.



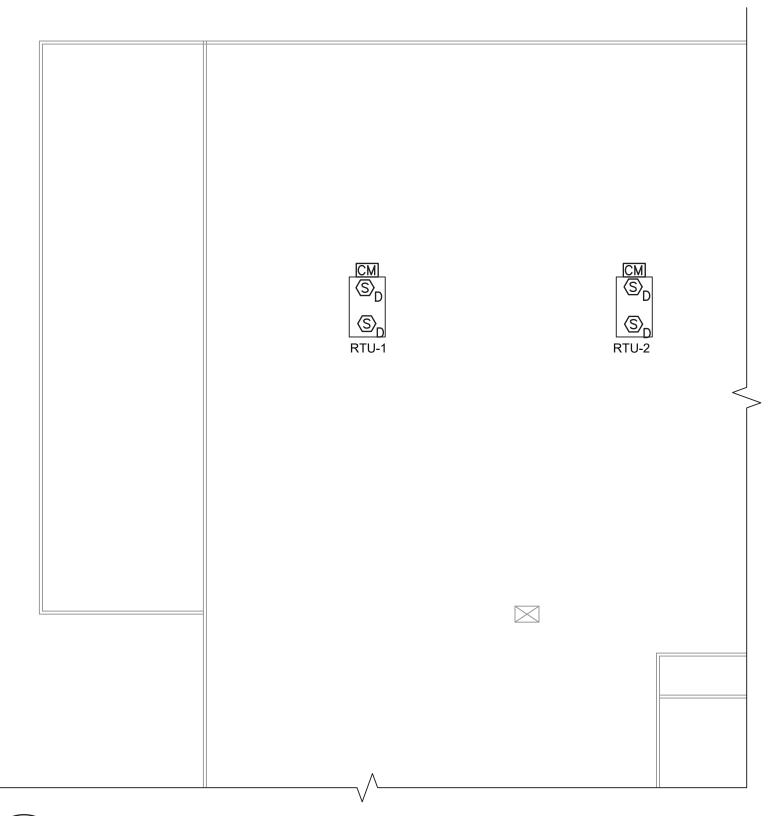


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		FIRE DETECTION & ALARM SYSTEM
	SYMBOL	DESCRIPTION
	FACP	FIRE ALARM SYSTEM CONTROL PANEL. SUBSCRIPT 'E' INDICATES EXISTING TO REMAIN
	⑤ _D	FIRE ALARM SYSTEM SMOKE DETECTOR - SUBSCRIPT 'D' INDICATES DUCT MOUNTED SMOKE DETECTOR
	СМ	FIRE ALARM SYSTEM CONTROL MODULE FOR FAN SHUTDOWN CONTROL

ABBREVIATIONS					
AMPERE C ALTERNATING CURRENT CS ADMINISTRATIVE CONTROL STATION DA AMERICANS WITH DISABILITIES ACT OF ABOVE FINISHED FLOOR OCH ARCHITECTURAL OCH ARCHITECTURAL OCH AIR CONDITIONING OCONDUIT OCH CONDUIT OCH COLUMN OCH COLUM	LP LS LTG MATV MCC MECH MER MIC MTD N N.C. N.O. P PB PNL RC SP SSB STD SW SWBD TEL TV TYP V W WP	LIGHTING PANEL LOUDSPEAKER LIGHTING MASTER TELEVISION MOTOR CONTROL CENTER MECHANICAL MECHANICAL EQUIPMENT ROOM MICROPHONE MOUNTED NEUTRAL NORMALLY CLOSED NORMALLY OPEN POLE(S) PULL BOX PANEL REMOTE CONTROL SPARE SOLID STATE BALLAST STANDARD SWITCH SWITCHBOARD TELEPHONE TELEVISION TYPICAL VOLT WATT WEATHERPROOF			







FIRE ALARM ROOF PART PLAN SCALE: 1/4" = 1' - 0"

