

UNIVENT REPLACEMENT AT HAVERSTRAW ELEMENTARY

HAVERSTRAW ELEMENTARY SCHOOL
16 Grant Street
Haverstraw, NY 10927
SED# 50-02-01-06-0-009-018

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

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

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

Symbol	Material
	CONCRETE MASONRY UNIT
	BRICK
	RIGID INSULATION
	CONCRETE
	GRAVEL OR STONE
	EARTH
	EIFS
	ASPHALT PAVING
	SAND/MORTAR/GYPSUM BOARD
	STEEL
	ACT
	ROUGH WOOD
	BRONZE

Symbol	Description
	DOOR NUMBER
	KEY NOTE
	PARTITION TYPE
	REVISION NUMBER
	WINDOW TYPE
	MECHANICAL EQUIPMENT
	EXISTING PARTITION
	EXISTING PARTITION TO BE REMOVED
	NEW PARTITION (SEE PARTITION LEGEND A-101)
	NEW DOOR
	EXISTING DOOR
	EXISTING DOOR TO BE REMOVED
	EXISTING WINDOW
	NEW WINDOW

SYMBOLS LEGEND

1. ALL PLAN DIMENSIONS ARE NOMINAL U.O.N. DIMENSIONS TO THE FINISHED FACE OF AN ELEMENT OR WALL WILL BE DESIGNATED WITH AN "F" AS SHOWN.

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

GENERAL NOTES

ALTERNATE NO. 1: WORK PHASING. PHASE A TO BE IN SUMMER OF 2022 AND PHASE B TO BE IN SUMMER OF 2023. SEE ARCHITECTURAL AND MECHANICAL FLOOR PLANS FOR PHASE A AND PHASE B LOCATIONS.

ALTERNATE NO. 2: WORK PHASING. PHASE A TO BE IN SUMMER OF 2022 AND PHASE B TO BE DURING FALL OF 2022 2ND SHIFT. SEE ARCHITECTURAL AND MECHANICAL FLOOR PLANS FOR PHASE A AND PHASE B LOCATIONS.

ALTERNATE NO. 3: PROVIDE NEW POWER SUPPLY TO UVS AS SHOWN ON E-101, E-102 AND E-103.

ALTERNATES

DRAWING No.	DRAWING TITLE	DATE
A-000	COVER SHEET	01-28-22
B-100	CODE ANALYSIS	12-17-21
S-101	ROOF PLAN & GENERAL NOTES	12-17-21
S-102	ROOF PARTIAL PLANS	12-17-21
S-103	SECTIONS & TYPICAL DETAILS	12-17-21
S-104	SECTIONS & TYPICAL DETAILS S-2	12-17-21
D-101	FIRST FLOOR DEMO PLAN	12-17-21
D-102	SECOND FLOOR DEMO PLAN	12-17-21
D-103	THIRD FLOOR DEMO PLAN	12-17-21
D-104	ROOF DEMO PLAN	12-17-21
A-101	PROPOSED FIRST FLOOR PLAN	01-28-22
A-102	PROPOSED SECOND FLOOR PLAN	01-24-22
A-103	PROPOSED THIRD FLOOR PLAN	01-24-22
A-104	PROPOSED ROOF PLAN	12-17-21
A-400	REFLECTED CEILING PLAN	12-17-21
A-500	DETAILS	01-28-22
A-501	UNIT ELEVATIONS	12-17-21
A-501.1	UNIT ELEVATIONS	12-17-21
A-502	DETAILS	12-17-21
A-503	DETAILS	12-17-21
M-001	MECHANICAL NOTES	01-24-22
M-002	MECHANICAL SCHEDULES	01-24-22
M-003	MECHANICAL SCHEDULES 2	01-24-22
M-004	CONTROLS	01-24-22
M-005	VENTILATION SCHEDULE	12-17-21
M-006	UV SCHEDULE	01-24-22
M-061	HVAC DEMO FIRST FLOOR PLAN	01-24-22
M-062	HVAC DEMO SECOND FLOOR PLAN	01-24-22
M-063	HVAC DEMO THIRD FLOOR PLAN	01-24-22
M-101	FIRST FLOOR PLAN MECHANICAL	01-24-22
M-102	SECOND FLOOR PLAN MECHANICAL	01-24-22
M-103	THIRD FLOOR PLAN MECHANICAL	01-24-22
M-104	ROOF PLAN MECHANICAL	01-24-22
M-301	HVAC PIPING - 1ST FLOOR PLAN	12-17-21
M-302	HVAC PIPING - 2ND FLOOR PLAN	12-17-21
M-303	HVAC PIPING - 3RD FLOOR PLAN	12-17-21
M-401	VRF PIPING RISERS	12-17-21
M-501	MECHANICAL DETAILS	01-24-22
M-502	MECHANICAL DETAILS 2	12-17-21
FA-001	FIRE ALARM SYSTEM COVER SHEET	12-17-21
FA-101	THIRD FLOOR PLAN FIRE ALARM	12-17-21
FA-102	ROOF PLAN FIRE ALARM	12-17-21
E-001	ELECTRICAL COVER SHEET	12-17-21
E-060	BASEMENT DEMO PLAN ELECTRICAL	01-28-22
E-061	FIRST FLOOR ELECTRICAL DEMO PLAN	12-17-21
E-062	SECOND FLOOR ELECTRICAL DEMO PLAN	12-17-21
E-063	THIRD FLOOR ELECTRICAL DEMO PLAN	12-17-21
E-100	BASEMENT PLAN ELECTRICAL	01-28-22
E-101	FIRST FLOOR PLAN ELECTRICAL	12-17-21
E-102	SECOND FLOOR PLAN ELECTRICAL	12-17-21
E-103	THIRD FLOOR PLAN ELECTRICAL	12-17-21
E-104	ROOF PLAN ELECTRICAL	12-17-21
E-201	ELECTRICAL SCHEDULES & RISER	01-28-22
E-301	ELECTRICAL DETAILS	12-17-21

LIST OF DRAWINGS

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

ABBREVIATIONS

ALLOWANCE NO. 1: PROVIDE ALLOWANCE TO CLEAN EXISTING MAIN DUCTWORK FOR 20 LINEAR FEET PER UNIT.

ALLOWANCE NO. 2: PROVIDE ALLOWANCE TO REPLACE EXISTING SUPPLY AND RETURN PIPING AND INSULATION FOR 20 LINEAR FEET PER UNIT.

ALLOWANCE NO. 3: PROVIDE A PROPOSAL FROM A THIRD PARTY HVAC COMMISSIONING AGENT CONTRACTOR IS TO INCLUDE THIS AMOUNT IN THEIR BASE BID. CONTRACTOR WILL ISSUE A CREDIT CHANGE ORDER TO THE OWNER FOR THE COMMISSIONING PROPOSAL AMOUNT, OWNER WILL CONTRACT DIRECTLY WITH THE COMMISSIONING AGENT.

ALLOWANCE NO. 4: PROVIDE ALLOWANCE FOR THE RELOCATION OF 40 ELECTRICAL DEVICES THAT REQUIRE RELOCATION DUE TO THE INCREASED SIZE OF THE NEW UNIT VENTILATORS.

ALLOWANCE NO. 5: CONTRACTOR TO INCLUDE ALLOWANCE FOR LF OF LINE SET ENCLOSURE NOTED ON DRAWINGS.

ALLOWANCE NO. 6: CONTRACTOR SHALL INCLUDE IN THEIR BID AN ALLOWANCE FOR 10' OF PIPING/ INSULATION FOR EACH UV AND 20' AT EACH RTU. SEE DRAWINGS 3/M-501 AND 4/M-501.

ALLOWANCE NO. 7: CONTRACTOR TO INCLUDE ALLOWANCE FOR LF OF WIRE MOLD NOTED ON DRAWINGS.

ALLOWANCE NO. 8: ELECTRICAL CONTRACTOR TO PROVIDE NEW POWER CONNECTIONS TO 10 UVS.

ALLOWANCES

UNIT PRICE NO. 1: PROVIDE UNIT PRICE TO INCREASE OR REDUCE BY 10'-0" THE LINE SET COVER. SEE DETAIL 5/A-500.

UNIT PRICE NO. 2: PROVIDE UNIT PRICE PER SQUARE FOOT OF VCT REPLACEMENT.

UNIT PRICE NO. 3: PROVIDE A UNIT PRICE FOR LF OF WOOD BASE REPLACEMENT.

UNIT PRICE NO. 4: PROVIDE A UNIT PRICE TO INCREASE OR REDUCE BY 10'-0" OF WIRE MOLD.

UNIT PRICE NO. 5: PROVIDE A UNIT PRICE TO INCREASE OR REDUCE BY 10'-0" OF WIRE MOLD.

UNIT PRICE NO. 6: PROVIDE A UNIT PRICE TO PROVIDE NEW POWER SUPPLY WHERE EXISTING POWER SUPPLY IS NOT USABLE.

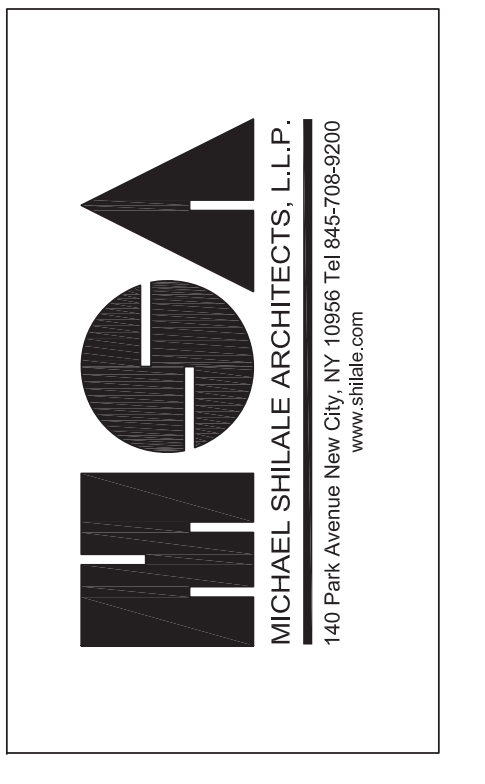
UNIT PRICES

No.	Date	Revisions
6	01-28-22	ADDENDUM 5
5	01-24-22	ADDENDUM 3
4	01-14-22	ADDENDUM 1
3	12-17-21	ISSUED FOR BID
2	11-19-21	ISSUED ADDENDUM 1
1	08-30-21	BIDDING DOCUMENTS

Drawn by	MAL
Checked by	MS/JC
Project No.	41048
Scale	AS NOTED
Date	08-30-21

GREENMAN PEDERSON, INC. 400 Rella Boulevard Montabello, NY 10901	Mechanical & Electrical Engineer:
	Structural Engineer:

UNIVENT REPLACEMENT AT HAVERSTRAW ELEMENTARY
SED# 50-02-01-06-0-009-018
 140 Park Avenue New City, NY 10956 Tel 945-063500
 www.mshila.com
 COUNTY OF ROCKLAND



COVER SHEET

Drawing No. **A-000**

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— EXISTING THROUGH WALL LOUVER
 □ SUPPLY REGISTER
 ▨ NEW UNIT VENT
 UV-00
 ▨ NEW FAN COIL UNIT
 FC-00
 ▨ NEW CASSETTE
 CS-00
 ▨ EXISTING UNIT VENT (TO REMAIN)
 ▨ EXISTING UNIT VENT (TO BE REMOVED)
 ▨ NEW RELIEF VENT ENCLOSURE
 RA
 ■ AREA OF NEW ROOF
 *LF LE LINE SET ENCLOSURE NUMBER INDICATES AMOUNT OF LINEAR FEET FOR EACH ROOM. SEE DETAIL 6/A-500
 *LF WM WIRE MOLD NUMBER INDICATES AMOUNT OF LINEAR FEET FOR EACH ROOM. SEE DETAIL 7/A-500

LEGEND

- (A1) INSTALL NEW UNIT VENTILATORS.
- (A2) INSTALL NEW CEILING AS REQUIRED: 095113. INSTALL DUCTS AND REGISTERS AS REQUIRED.
- (A3) REMOVE EXISTING CEILING TO ACCESS DUCT WORK. REPLACE WITH NEW CLG TILE: 095113
- (A4) PROVIDE NEW FIN TUBE ENCLOSURES IN ENTIRE ROOM.
- (A5) VOID
- (A6) REROUTE EXISTING ELECTRICAL SUPPLY TO NEW CEILING MOUNTED UNIT.
- (A7) PROVIDE METAL STUD AND GYPSUM ENCLOSURE AROUND NEW INTAKE AIR DUCT AT FLOOR LEVEL AND DUCT TO CEILING. MODIFY GYPSUM CEILING FOR NEW DUCT.
- (A8) CONSTRUCT GYPSUM ENCLOSURE TO COVER RELIEF AIR DUCT. COORDINATE WITH MECHANICAL DRAWINGS AND DRAWING 5/A-500.
- (A9) INSTALL NEW GYPSUM SOFFIT FOR NEW CEILING MOUNTED UNIT VENTILATORS. SEE DRAWINGS 1/A-502 AND 2/A-502.
- (A10) INSTALL NEW ACCESS PANEL IN PLASTER CEILING.
- (A11) PATCH EXISTING MASONRY AT DUCTWORK PENETRATIONS IN FAN ROOM.
- (A12) PATCH AND PAINT EXISTING PLASTER CEILING WHERE NEW UNIT IS MOUNTED IN CEILING.
- (A13) INSTALL LINESET AND POWER ABOVE CEILING AND IN TO CHASE FOR HVAC UNITS. ALL WIRE AND MECHANICAL EQUIPMENT SHALL BE CONCEALED.
- (A14) REINSTALL EXISTING DOORS TO SWING IN DIRECTION OF EGRESS.
- (A15) INSTALL NEW HOLLOW METAL DOOR AT BOILER ROOM. PROVIDE 1 1/2" HR LABEL DOOR WITH CLOSER. REUSE EXISTING LOCKSET. PAINT DOOR AND FRAME (COLOR BY ARCHITECT)(BOILER ROOM DOOR IN BASEMENT)
- (A16) PROVIDE AND INSTALL (1) 10 LB FIRE EXTINGUISHER AT SELECTED LOCATION.
- (A17) SAW CUT PLASTER CEILING FOR INSTALLATION OF HVAC COMBINER BOX. REINSTALL EXISTING CEILING TILE.
- (A18) PATCH WALL WHERE EXISTING UNIVENT IS REMOVED. PAINT TO MATCH EXISTING.
- (A19) REMOVE EXISTING DOOR TO UNDERCUT EXISTING DOOR TO ALLOW FOR 2" AIR SPACE. REINSTALL DOOR.
- (A20) GLAZING PANEL IN AREA TO BE REMOVED AND TESTED TO DETERMINE THAT IT IS SAFETY GLAZING. GLAZING TO BE REPLACED WITH LAMINATED GLAZING. OWNER AND ARCHITECT TO DETERMINE WHICH PANELS TO BE REMOVED.
- (A21) CONSTRUCT NEW CLOSET TO HOUSE NEW AC UNIT. COORDINATE CLOSET SIZING WITH UNIT. PROVIDE NEW DOOR AND FINISHES. CONFIRM SIZE AND COLOR WITH OWNER AND ARCHITECT.

- ### KEY NOTES
1. CONTRACTOR SHALL BE REQUIRED TO CORE DRILL ALL HOLES IN WALLS, FLOORS AND CEILINGS TO FACILITATE NEW LINESETS, ELECTRICAL CONDUITS AND CONDENSATE LINES.
 2. PATCH EXISTING VCT FLOORING AT BASE UNDER UNI-VENT.
 3. WIRE MOLD RUNS ALONG THE EXISTING TRIM UNDER WINDOW SILL INTO RELIEF VENT FOR FIRST AND SECOND FLOORS UNLESS OTHERWISE NOTED. CONTRACTOR WILL REVIEW LAYOUT WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
 4. WIRE MOLD RUNS UP WALL 9FT ABOVE DROPPED CEILING, THEN DOWN 5FT INTO RELIEF VENT FOR 3RD FLOOR ONLY. CONTRACTOR WILL REVIEW LAYOUT WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
- ### GENERAL NOTES

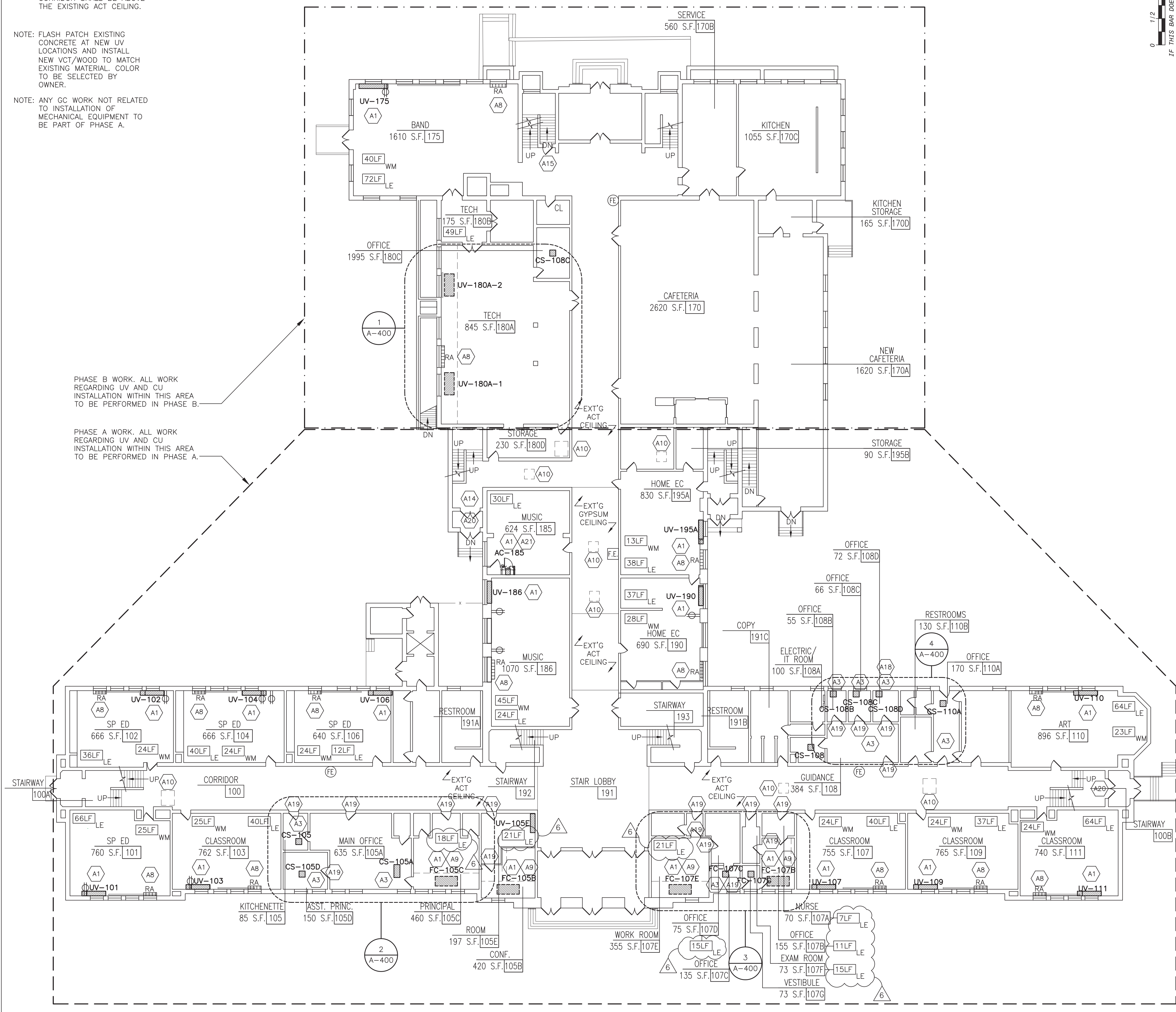
NOTE: ALL LINE SETS AND ELECTRICAL CONDUIT IN CORRIDOR SHALL BE ABOVE THE EXISTING ACT CEILING.

NOTE: FLASH PATCH EXISTING CONCRETE AT NEW UV LOCATIONS AND INSTALL NEW VCT/WOOD TO MATCH EXISTING MATERIAL. COLOR TO BE SELECTED BY OWNER.

NOTE: ANY GC WORK NOT RELATED TO INSTALLATION OF MECHANICAL EQUIPMENT TO BE PART OF PHASE A.

PHASE B WORK. ALL WORK REGARDING UV AND CU INSTALLATION WITHIN THIS AREA TO BE PERFORMED IN PHASE B.

PHASE A WORK. ALL WORK REGARDING UV AND CU INSTALLATION WITHIN THIS AREA TO BE PERFORMED IN PHASE A.



1 PROPOSED FIRST FLOOR PLAN
SCALE: 1/16"=1'-0"

0 1/2
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
6	01-28-21	ADDENDUM 5
5	01-24-21	ADDENDUM 3
4	01-14-21	ADDENDUM 1
3	12-17-21	ISSUED FOR BID
2	11-19-21	ISSUED ADDENDUM 1
1	08-30-21	BIDDING DOCUMENTS

Drawn by	MAL
Checked by	MS/JC
Project No.	41048
Scale	AS NOTED
Date	05-14-21

GREENMAN PEDERSEN, INC 400 BELLA BOULEVARD MONTEBELLA, NY 10901	Mechanical & Electrical Engineer
UNIVENT REPLACEMENT AT HAVERSTRAY ELEMENTARY SED# 50-02-01-06-009-018 18 Grant Street Haverstraw, NY 10927	Structural Engineer

UNIVENT REPLACEMENT AT HAVERSTRAY ELEMENTARY
SED# 50-02-01-06-009-018
18 Grant Street
Haverstraw, NY 10927
COUNTY OF ROCKLAND



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PROPOSED FIRST FLOOR PLAN

Drawing No. **A-101**

— EXISTING THROUGH WALL LOUVER
 □ SUPPLY REGISTER
 ▨ NEW UNIT VENT
 UV-00
 ▨ NEW FAN COIL UNIT
 FC-00
 ▨ NEW CASSETTE
 CS-00
 ▨ EXISTING UNIT VENT (TO REMAIN)
 ▨ EXISTING UNIT VENT (TO BE REMOVED)
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 RA
 ▨ AREA OF NEW ROOF
 *LF LE LINE SET ENCLOSURE NUMBER INDICATES AMOUNT OF LINEAR FEET FOR EACH ROOM. SEE DETAIL 6/A-500
 *LF WM WIRE MOLD NUMBER INDICATES AMOUNT OF LINEAR FEET FOR EACH ROOM. SEE DETAIL 7/A-500

LEGEND

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- (A2) INSTALL NEW CEILING AS REQUIRED: 095113. INSTALL DUCTS AND REGISTERS AS REQUIRED.
- (A3) REMOVE EXISTING CEILING TO ACCESS DUCT WORK. REPLACE WITH NEW CLG TILE: 095113
- (A4) PROVIDE NEW FIN TUBE ENCLOSURES IN ENTIRE ROOM.
- (A5) VOID
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- (A7) PROVIDE METAL STUD AND GYPSUM ENCLOSURE AROUND NEW INTAKE AIR DUCT AT FLOOR LEVEL AND DUCT TO CEILING. MODIFY GYPSUM CEILING FOR NEW DUCT.
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 4. WIRE MOLD RUNS UP WALL 9FT ABOVE DROPPED CEILING, THEN DOWN 5FT INTO RELIEF VENT FOR 3RD FLOOR ONLY. CONTRACTOR WILL REVIEW LAYOUT WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
- ### GENERAL NOTES

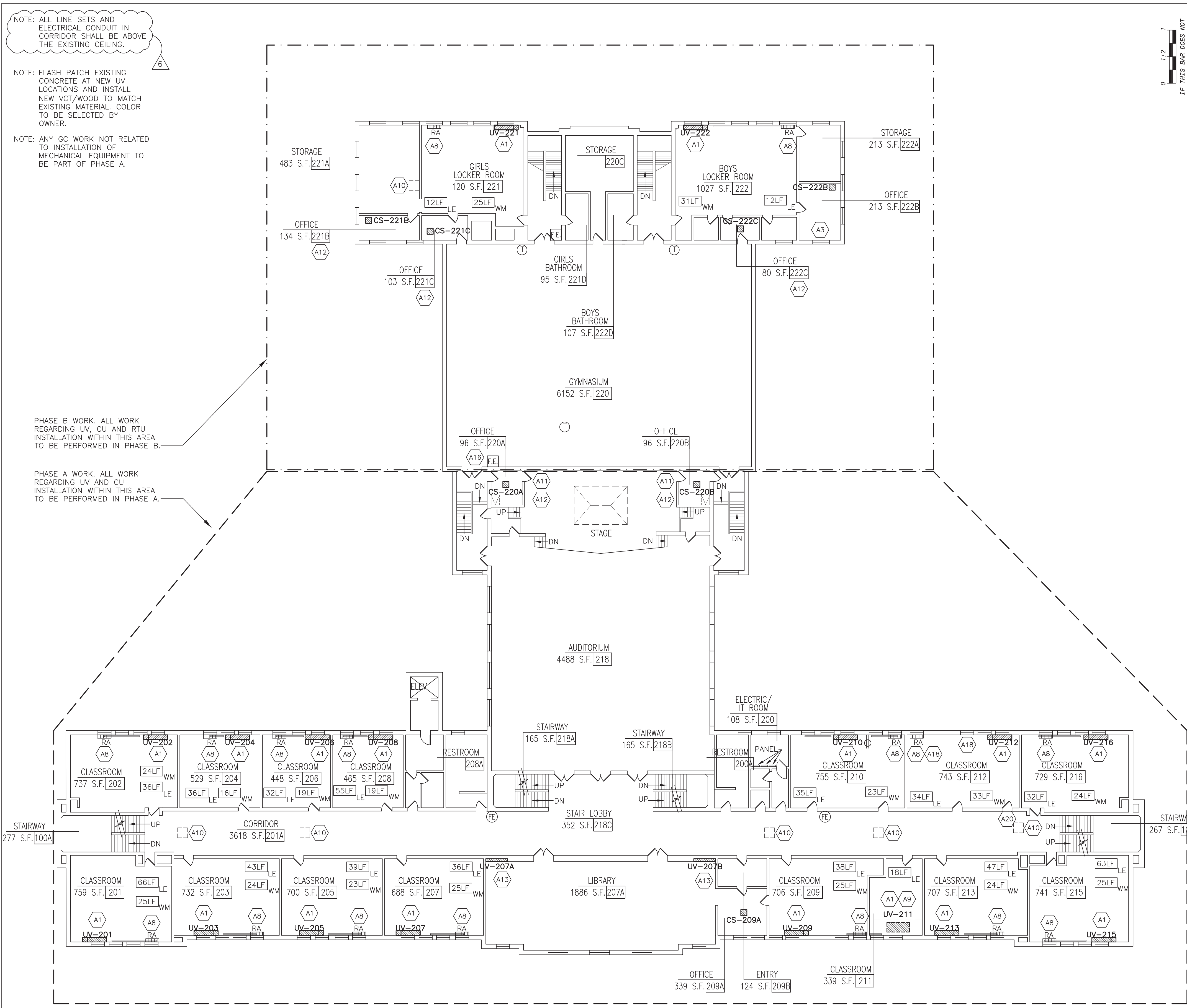
NOTE: ALL LINE SETS AND ELECTRICAL CONDUIT IN CORRIDOR SHALL BE ABOVE THE EXISTING CEILING.

NOTE: FLASH PATCH EXISTING CONCRETE AT NEW UV LOCATIONS AND INSTALL NEW VCT/WOOD TO MATCH EXISTING MATERIAL. COLOR TO BE SELECTED BY OWNER.

NOTE: ANY GC WORK NOT RELATED TO INSTALLATION OF MECHANICAL EQUIPMENT TO BE PART OF PHASE A.

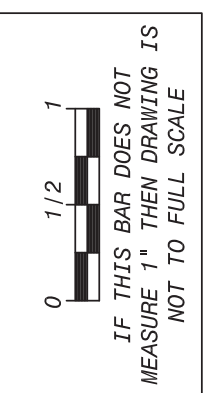
PHASE B WORK. ALL WORK REGARDING UV, CU AND RTU INSTALLATION WITHIN THIS AREA TO BE PERFORMED IN PHASE B.

PHASE A WORK. ALL WORK REGARDING UV AND CU INSTALLATION WITHIN THIS AREA TO BE PERFORMED IN PHASE A.



1 PROPOSED SECOND FLOOR PLAN

SCALE: 1/16"=1'-0"



No.	Date	Revisions
6	01-28-21	ADDENDUM 5
5	01-24-21	ADDENDUM 3
4	01-14-21	ADDENDUM 1
3	12-17-21	ISSUED FOR BID
2	11-19-21	ISSUED ADDENDUM 1
1	09-30-21	BIDDING DOCUMENTS

Drawn by	MAL
Checked by	MS/JC
Project No.	41048
Scale	AS NOTED
Date	05-14-21

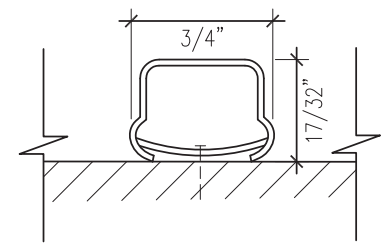
GREENMAN PEDERSEN, INC 400 BELLA BOULEVARD MONTEBELLA, NY 10901	Mechanical & Electrical Engineer Structural Engineer
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UNIVENT REPLACEMENT AT HAVERSTRAY ELEMENTARY
 SED# 50-02-01-06-0-009-018
 18 Grant Street
 Haverstraw, NY 10927
 COUNTY OF ROCKLAND

PROPOSED SECOND FLOOR PLAN
 Drawing No. **A-102**



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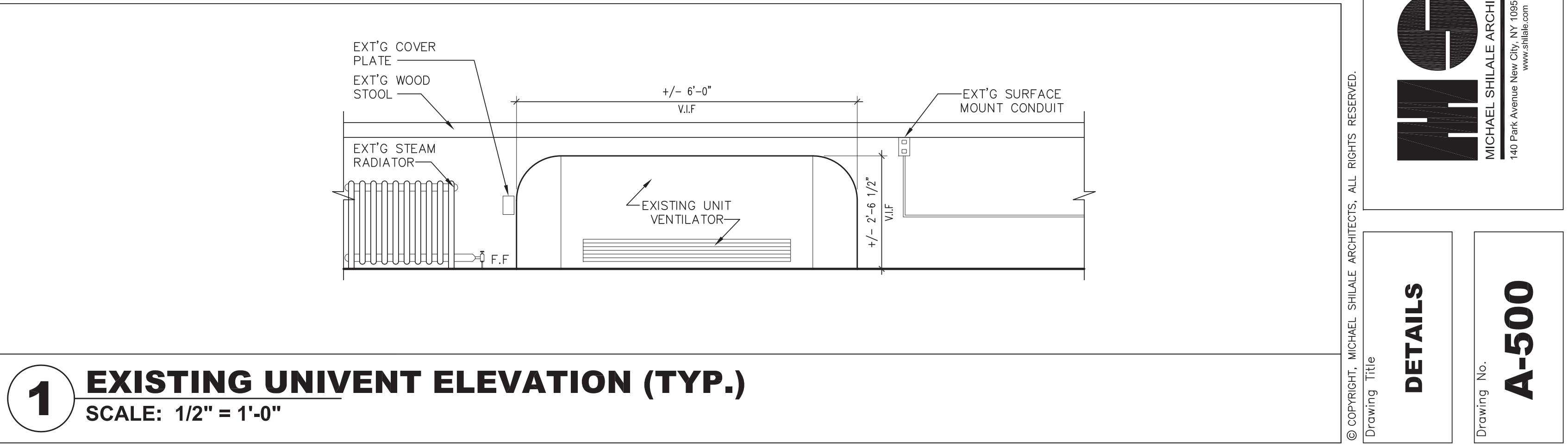
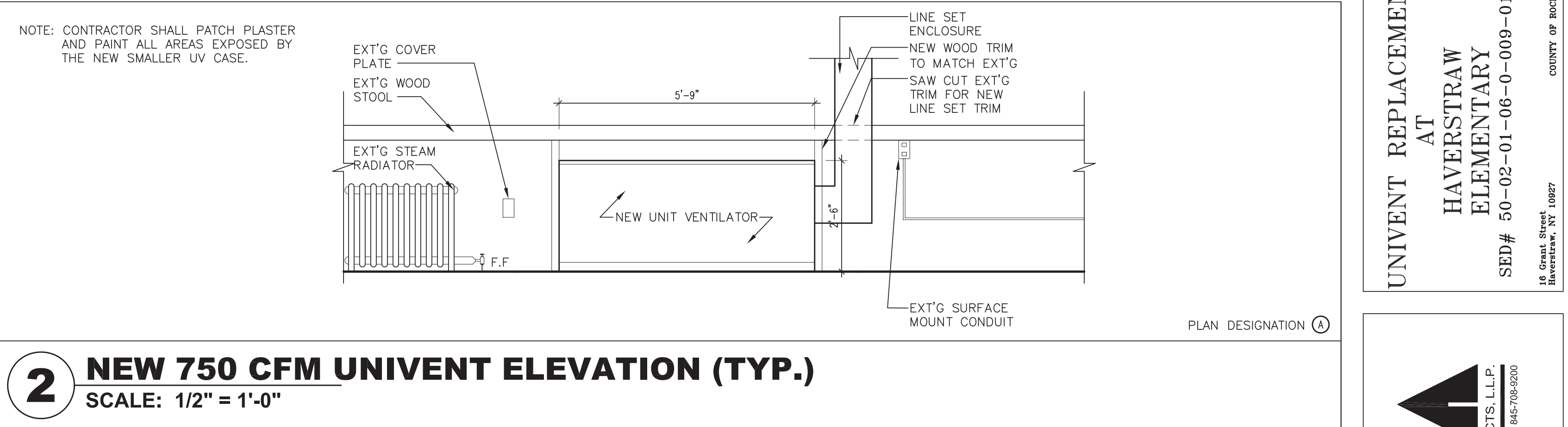
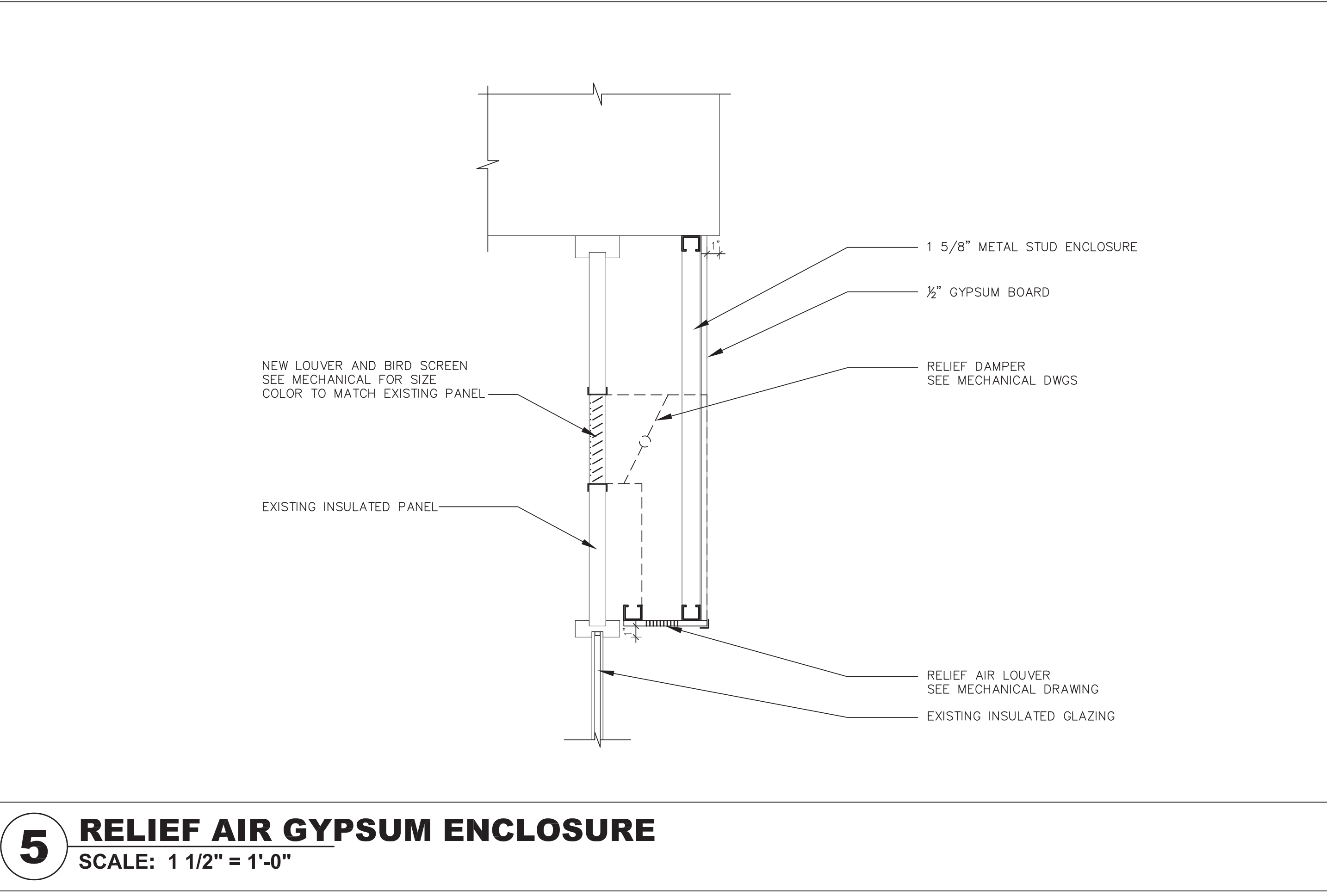
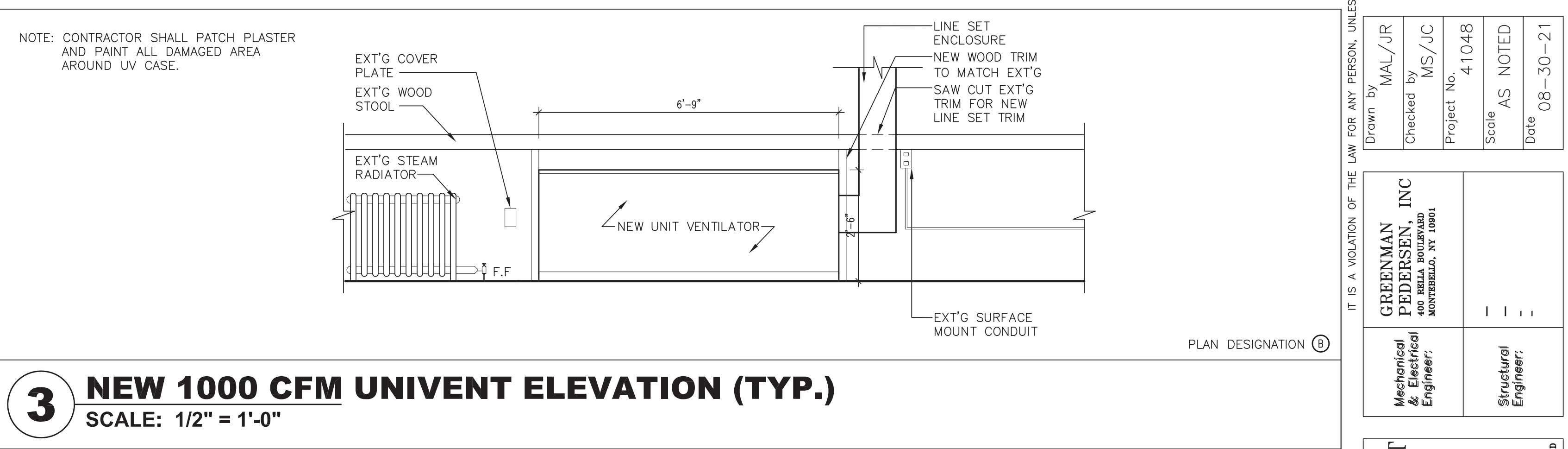
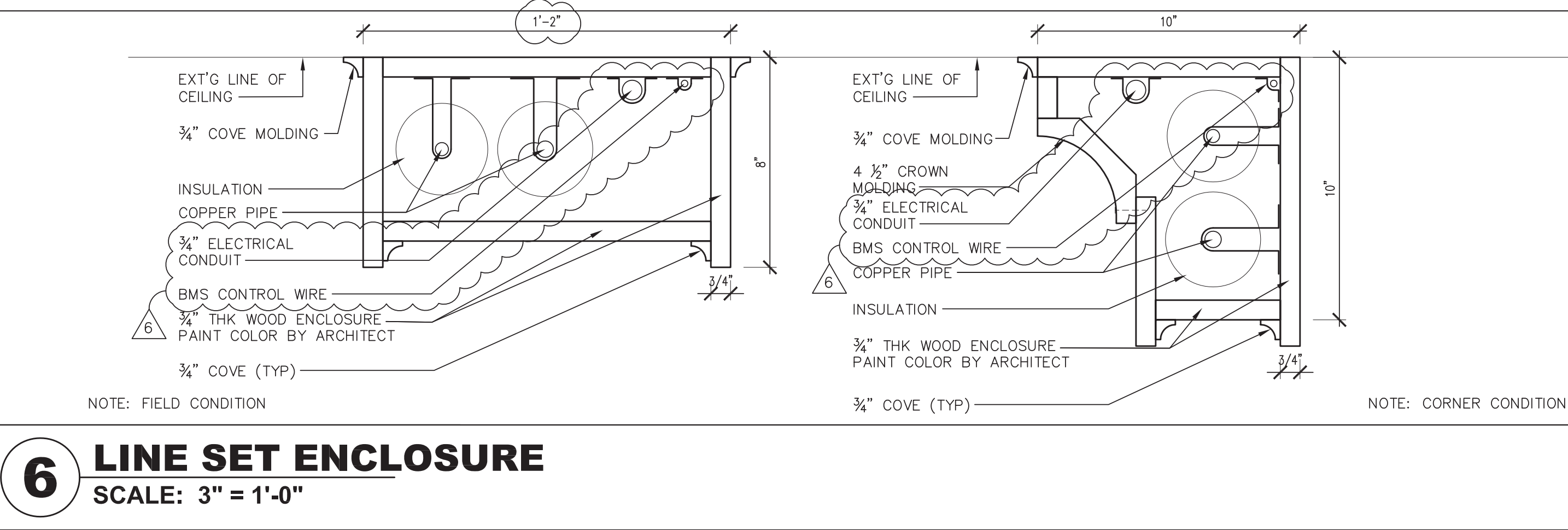
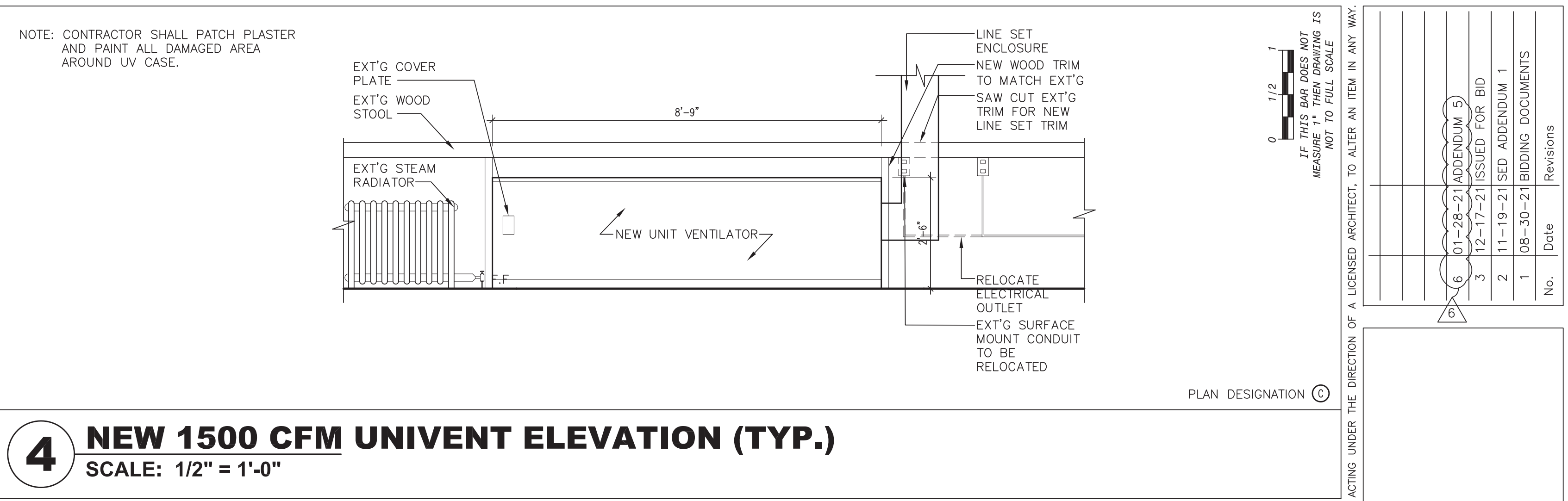


7 WIRE MOLD DETAIL
SCALE: 1:1

CODE	MATERIAL	MANUFACTURER	PRODUCT	CATALOG NO.	FINISH	COLOR	REMARKS
PT1	LATEX FINISH	BENJAMIN MOORE	REGAL AQUA PEARL	310	EGGSHELL	BY ARCH	(1) COAT PT4, (2) COATS PT1
PT4	LATEX PRIMER	BENJAMIN MOORE	LATEX PRIMER	273	FLAT	BY ARCH	
PT5	LATEX FINISH	BENJAMIN MOORE	DTM ACRYLIC	M29	SEMI-GLOSS	BY ARCH	(3) COAT PT6

FINISH MATERIAL SCHEDULE

4 NEW 1500 CFM UNIVENT ELEVATION (TYP.)
SCALE: 1/2" = 1'-0"



0 1/2
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	08-30-21	BIDDING DOCUMENTS
2	11-19-21	ISSUED ADDENDUM 1
3	12-17-21	ISSUED FOR BID
6	01-28-21	ADDENDUM 5

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

Drawn by: MAL/JJR
Checked by: MS/JC
Project No.: 41048
Scale: AS NOTED
Date: 08-30-21

GREENMAN PEDERSEN, INC.
400 BELLA BOULEVARD
MONTICELLO, NY 10901

Mechanical & Electrical Engineer
Structural Engineer

UNIVENT REPLACEMENT AT HAVERSTRAW ELEMENTARY
SED# 50-02-01-06-0-009-018
18 Grant Street
Haverstraw, NY 10927
COUNTY OF ROCKLAND

MSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New York, NY 10022
Tel 945-7063200
www.msaarch.com

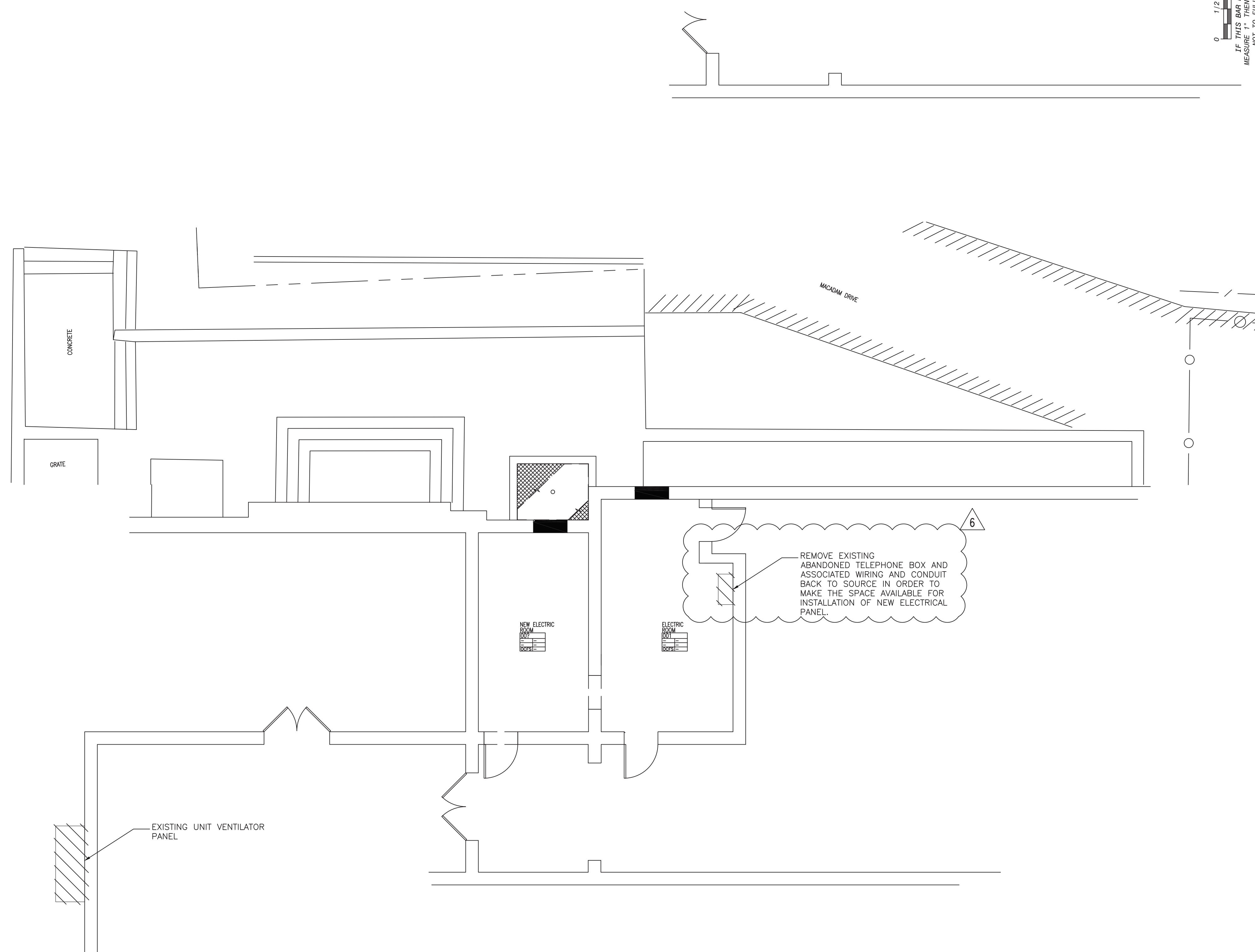
DETAILS

Drawing No. **A-500**

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Drawing Title

ELECTRICAL DEMOLITION NOTES:

- FOR ELECTRICAL SYMBOLS & LEGENDS, GENERAL NOTES, ABBREVIATIONS REFER TO DRAWING E001.00
- MAINTAIN CIRCUIT CONTINUITY TO AREAS NOT AFFECTED BY DEMOLITION
- ALL DEVICES, EQUIPMENT AND CONNECTIONS SHOWN IN THIS DRAWING ARE EXISTING AND SHALL BE REMOVED WITH ALL ASSOCIATED CONTROLLERS, WIRING, EXPOSED CONDUITS, PULL BOX, SWITCHES, DISCONNECTS, JUNCTION BOX, SUPPORTS ETC. BACK TO SOURCE, UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL PATCH AND PAINT AREAS AFFECTED BY REMOVAL TO MATCH SURROUNDINGS.
- THE CONTRACTOR IS REQUIRED TO COORDINATE WITH OTHER TRADES AND BUILDING FACILITY DURING THE DEMOLITION WORK ON THIS FLOOR. ANY SERVICE DISRUPTION AND SHUTDOWN TO THE ELECTRICAL AND LOW VOLTAGE SYSTEMS IN THE EXISTING BUILDING, IF AND WHEN REQUIRED SHALL BE PERFORMER AFTER WELL COORDINATION WITH BUILDING FACILITY AND OBTAINING A WRITTEN PERMISSION FROM THEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY UNAUTHORIZED SERVICE DISRUPTION OR SHUTDOWN ON THE EXISTING BUILDING
- COORDINATE REMOVAL OF POWER TO MECHANICAL AND PLUMBING EQUIPMENT WITH THE RESPECTIVE CONTRACTOR.
- REFER TO PLUMBING AND MECHANICAL DRAWINGS FOR REMOVAL OF PLUMBING AND MECHANICAL EQUIPMENTS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO REMOVE ALL ASSOCIATED ELECTRICAL FEEDERS, CIRCUITS, STARTERS, DISCONNECT SWITCHES, PULL BOXES, EXPOSED CONDUITS, ETC. BACK TO SOURCE FOR THE EQUIPMENTS BEING REMOVED BY THE MECHANICAL AND PLUMBING CONTRACTOR, UNLESS OTHERWISE INDICATED.
- THE ELECTRICAL CONTRACTOR SHALL FIELD EXAMINE THE ENTIRE AREA AFFECTED BY THIS CONSTRUCTION AND SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND DEVICES, RECEPTACLE, LIGHTING, LOW VOLTAGE DEVICES ETC. COMPLETE WITH ALL ASSOCIATED WIRING, SWITCHES, CONTROLLERS, SURFACE CONDUITS, PULL BOXES, JUNCTION BOXES, SUPPORTS ETC. BACK TO SOURCE, AS REQUIRED TO COMPLETE THE NEW WORK, EXCEPT THE EXISTING DEVICES SHOWN AS "EXISTING TO REMAIN" AND UNLESS OTHERWISE INDICATED.
- ALL UNIT VENTILATORS ARE CURRENTLY BEING FED FROM EXISTING UNIT VENTILATOR PANEL LOCATED IN THE BASEMENT.



1 BASEMENT DEMO PLAN
SCALE: 3/16" = 1'-0"

6	01-28-22	ADDENDUM 5	
3	12-17-21	ISSUED FOR BID	
2	11-19-21	ISED ADDENDUM 1	
1	08-30-21	BIDDING DOCUMENTS	
No.	Date	Revisions	

Drawn by	FC
Checked by	SH
Project No.	41048
Scale	AS NOTED
Date	08-30-21

GREENMAN PEDERSEN, INC 400 BELLA BOULEVARD MONTROSE, NY 10601	
Mechanical Electrical Engineer:	— — —
Structural Engineer:	— — —

UNIVENT REPLACEMENT AT HAVERSTRAY ELEMENTARY
SED# 50-02-01-06-0-009-018
18 Grant Street, Haverstray, NY 10627
COUNTY OF ROCKLAND

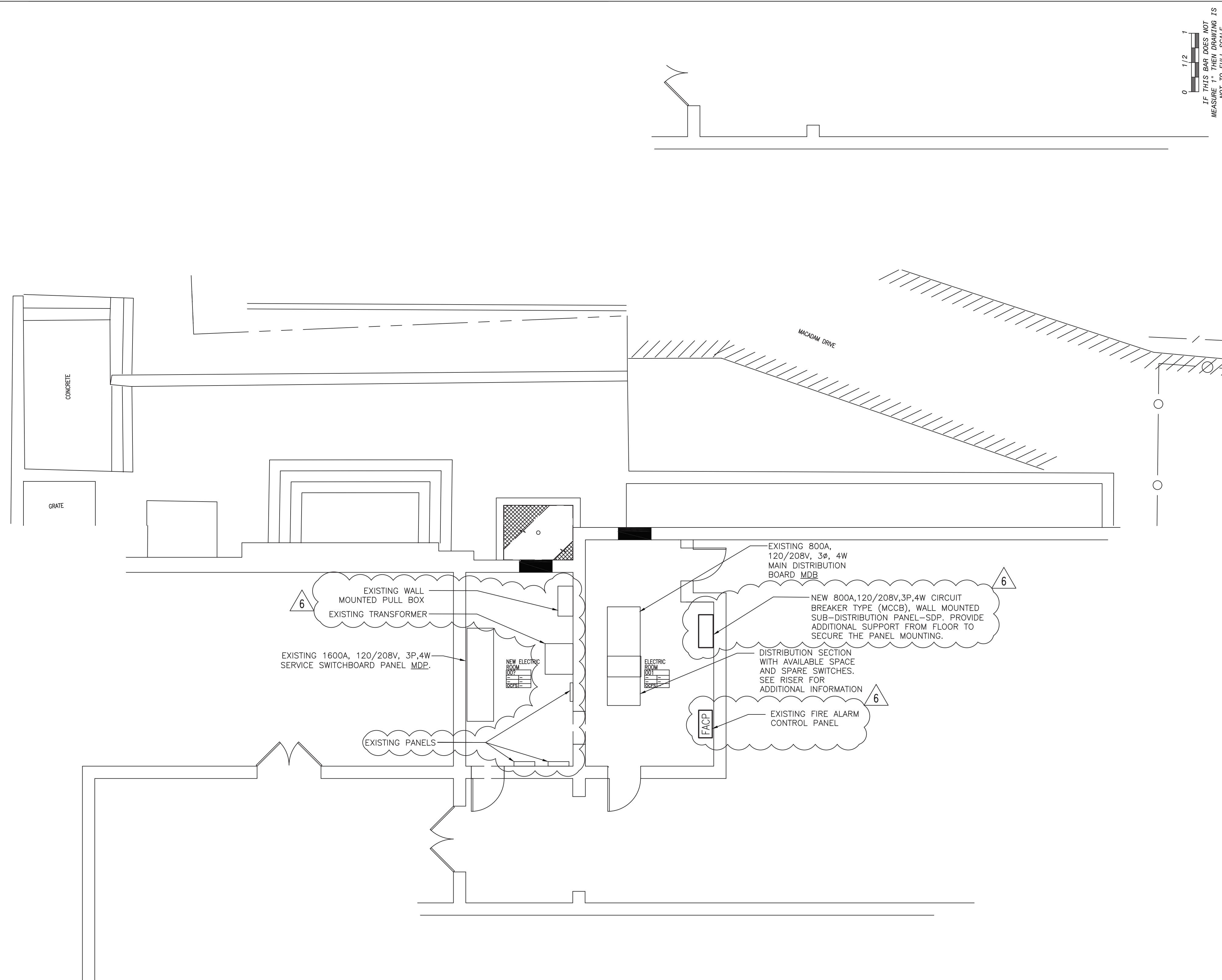
MSA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue New City, NY 10656 Tel 845-708-8200
www.shilale.com

BASEMENT DEMO PLAN - ELECTRICAL
Drawing No. **E-060**

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ELECTRICAL NOTES:

- REFER TO ADDITIONAL INSTALLATION NOTES ON DRAWING E-001.
- ALL NEW RUNS SHALL BE WITH MINIMUM OF 2#12+1#12G IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED ON THE PANEL SCHEDULES.
- PROVIDE LABELS ON ALL ELECTRICAL EQUIPMENT INDICATING CIRCUIT ORIGINATION.
- UPDATE ALL EXISTING PANEL DIRECTORIES AFFECTED BY NEW WORK.
- 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.
- CONTRACTOR SHALL MAINTAIN CONTINUITY TO ALL EXISTING CIRCUITRY TO REMAIN WHICH ARE AFFECTED BY THE SCOPE OF WORK; CONTRACTOR SHALL FURNISH ALL NECESSARY JUNCTION BOXES, CONDUIT, AND WIRES AS REQUIRED TO KEEP CONTINUITY.
- 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.
- 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.
- 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.
- ALL NEW FIRE ALARM DEVICES SHALL BE CIRCUITED TO RESPECTIVE ZONES IN THE EXISTING MAIN FIRE ALARM CONTROL PANEL SHOWN ON THIS DRAWING. ALL NEW DEVICES SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM. COORDINATE ALL WORK WITH THE FIRE ALARM VENDOR. PROVIDE ALL APPURTENANCES AS REQUIRED FOR A COMPLETE, CODE COMPLIANT, OPERABLE SYSTEM INSTALLATION IN A NEAT AND WORKMANLIKE MANNER.
- ALL THE 120/208V PANELS AND DISTRIBUTION BOARD NEEDS TO BE INSTALLED IN SUCH A WAY SO THAT A 3 FEET CLEARANCE IN FRONT OF THE PANELS IS BEING MAINTAINED AS REQUIRED BY NEC 2017.



1 BASEMENT PLAN
SCALE: 3/16" = 1'-0"



No.	Date	Revisions
1	08-30-21	BIDDING DOCUMENTS
2	11-19-21	ISSUED ADDENDUM 1
3	12-17-21	ISSUED ADDENDUM 2
6	01-28-22	ADDENDUM 5

Drawn by	FC
Checked by	SH
Project No.	41048
Scale	AS NOTED
Date	08-30-21

GREENMAN PEDERSEN, INC 400 BELLA BOULEVARD MONTICELLO, NY 10801	
Mechanical Electrical Engineer:	Structural Engineer:

UNIVENT REPLACEMENT AT HAVERSTRAW ELEMENTARY SED# 50-02-01-06-0-009-018 18 Grant Street Haverstraw, NY 10827 COUNTY OF ROCKLAND
--

MSA MICHAEL SHILALE ARCHITECTS, L.L.P. 140 Park Avenue New City, NY 10958 Tel: 845-708-9200 www.shilale.com

BASEMENT PLAN - ELECTRICAL
Drawing No. E-100

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PANEL SCH.	UP-2A	MLO				M.C.B. / M.L.O.												
		PANEL LOC.	CLOSET	AMP BUS SIZE	400 AMP	PANEL SHORT CIRCUIT RATING >	22	KAIC										
No.	WIRE	GND	CIR. NO.	LOAD DESCRIPTION	C.B. POLE NO.	C.B. TRIP A	C.B. LOAD VA	PHASE A	PHASE B	PHASE C	C.B. LOAD VA	C.B. TRIP A	C.B. TRIP NO.	LOAD DESCRIPTION	CIR. NO.	FDR.DATA		
2	12	12	1	2ND FLOOR UNVENT	1	15	600		1200		600	15	1	2ND FLOOR UNVENT	2	2	12	12

PANEL SCH.	UP-2B	MLO				M.C.B. / M.L.O.													
		PANEL LOC.	CLOSET	AMP BUS SIZE	400 AMP	PANEL SHORT CIRCUIT RATING >	22	KAIC											
No.	WIRE	GND	CIR. NO.	LOAD DESCRIPTION	C.B. POLE NO.	C.B. TRIP A	C.B. LOAD VA	PHASE A	PHASE B	PHASE C	C.B. LOAD VA	C.B. TRIP A	C.B. TRIP NO.	LOAD DESCRIPTION	CIR. NO.	FDR.DATA			
3	3	8	3	CU-8	3	80	5880		12720		6840	80	3	CU-11	2	4	3	3	8

PANEL SCH.	UP-2C	MLO				M.C.B. / M.L.O.												
		PANEL LOC.	CLOSET	AMP BUS SIZE	225 AMP	PANEL SHORT CIRCUIT RATING >	22	KAIC										
No.	WIRE	GND	CIR. NO.	LOAD DESCRIPTION	C.B. POLE NO.	C.B. TRIP A	C.B. LOAD VA	PHASE A	PHASE B	PHASE C	C.B. LOAD VA	C.B. TRIP A	C.B. TRIP NO.	LOAD DESCRIPTION	CIR. NO.	FDR.DATA		
2	12	12	1	2ND FLOOR UNVENT	1	15	600		1200		600	15	1	2ND FLOOR UNVENT	2	2	12	12

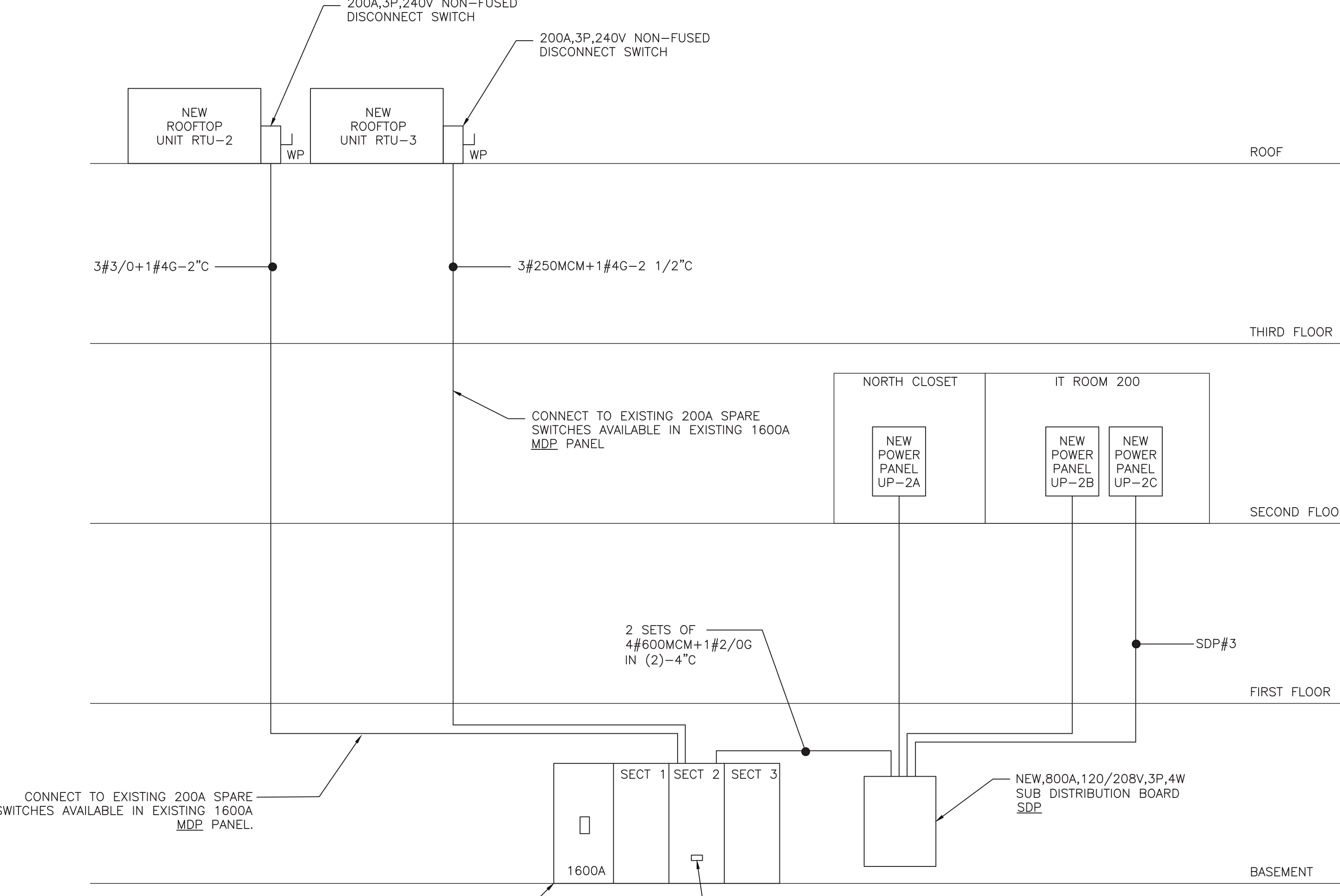
PANEL TYPE : NEMA 1	PHASE CONN.	39030	38370	37700	VA	20	% SPARE CAPACITY		
MOUNTING : SURFACE	TOTAL CONN. LOAD	115.1	320	AMPS	100	% DEMAND FACTOR			
FED FROM :	CON. and SPR. LOAD	138.12		TOT. DEM LOAD	138.12		VOLTS	208	REMARKS :
	TOT. DEM LOAD	383.837261				@	208		

PANEL TYPE : NEMA 1	PHASE CONN.	35460	34990	35690	VA	20	% SPARE CAPACITY		
MOUNTING : SURFACE	TOTAL CONN. LOAD	106.14	295	AMPS	100	% DEMAND FACTOR			
FED FROM :	CON. and SPR. LOAD	127.368		TOT. DEM LOAD	127.368		VOLTS	208	REMARKS :
	TOT. DEM LOAD	353.9573144				@	208		

PANEL TYPE : NEMA 1	PHASE CONN.	20724	18074	19274	VA	20	% SPARE CAPACITY		
MOUNTING : SURFACE	TOTAL CONN. LOAD	58.072	161	AMPS	100	% DEMAND FACTOR			
FED FROM :	CON. and SPR. LOAD	69.6864		TOT. DEM LOAD	69.6864		VOLTS	208	REMARKS :
	TOT. DEM LOAD	193.6594042				@	208		

0 1/2" = 1'-0"
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No.	Date	Revisions
6	01-28-22	ADDENDUM 3
3	12-17-21	ISSUED FOR BID
2	11-19-21	ISSUED ADDENDUM 1
1	08-30-21	BIDDING DOCUMENTS



POWER RISER DIAGRAM

POWER AND DISTRIBUTION PANEL SCHEDULE

VOLTAGE 120/208 3 PHASE 4 WIRE + G. U.O.N

PANEL	BUS (AMPS)	MAIN DEVICE	TRIP (AMPS)	EQUIPMENT	BRANCH DEVICE	FEEDER SIZE
		MCCB (AMPS)	TRIP (AMPS)		MCCB (AMPS) TRIP (AMPS) POLES	
SDP 42KAIC	800A COPPER	MLO	MLO	1 POWER PANEL UP-2A	400 400 3	4#600MCM+1#3G-4°C
				2 POWER PANEL UP-2B	400 400 3	4#600MCM+1#3G-4°C
				3 POWER PANEL UP-2C	200 200 3	4#3/0+1#6G-2°C
				4 SPARE	100 100 3	
				5 SPARE	100 100 3	
				6 SPARE	200 200 3	

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MISA
MICHAEL SHILALE ARCHITECTS, L.L.P.
140 Park Avenue
New City, NY 10956
Tel: (845) 708-9200
www.shilale.com

ELECTRICAL SCHEDULES AND RISER
Drawing Title
Drawing No. **E-201**

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