ASBESTOS ABATEMENT GENERAL NOTES

- ABATEMENT CONTRACTOR TO REMOVE AND DISPOSE OF BOTH ACM AND NON-ACM FLOOR TILES AND ASSOCIATED ACM MASTIC TO NON-ACM CONCRETE SUBSTRATE.
- ABATEMENT CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING WALL BASE.

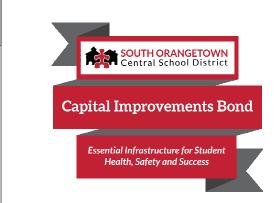
 ABATEMENT CONTRACTOR TO REMOVE AND DISPOSE OF METAL SINK
 BASIN WITH ACM ANTI-SWEAT TAR, & NON-ACM BASE CABINET.
- 2 ABATEMENT CONTRACTOR TO REMOVE EXISTING CARPET FLOORING (OVERTOP OF ACM FLOOR TILES)
- ABATEMENT CONTRACTOR TO REMOVE EXISTING 1'x1' VCT TILES (OVERTOP OF ACM FLOOR TILES)
- ABATEMENT CONTRACTOR TO REMOVE AND DISPOSE OF CMU WALL &
 LEAD CONTAINING DECORATIVE BLOCK AT NEW DOOR LOCATIONS.
 FINAL LOCATION TO BE COOPDINATED WITH G.C.
- FINAL LOCATION TO BE COORDINATED WITH G.C.

GENERAL ASBESTOS DEMOLITION NOTES:

- 1. ALL DRAWINGS ARE A GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF MATERIALS TO BE ABATED. IF THERE ARE ANY DISCREPANCIES WITH WHAT EXISTS TO WHAT IS INDICATED ON THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPORT SAID DISCREPANCIES TO THE ARCHITECT PRIOR TO SUBMITTING A BID. THE INTENT OF THIS PROJECT IS TO COMPLETELY REMOVE ASBESTOS CONTAINING MATERIALS INDICATED AND TO PROVIDE A CLEAN ACM FREE WORK AREA POST ABATEMENT.
- 2. ALL ABATEMENT PROCEDURES TO BE IN ACCORDANCE WITH STANDARDS SET FORTH BY NEW YORK STATE DEPARTMENT OF LABOR INDUSTRIAL CODE RULE 56 AND ALL APPLICABLE REGULATIONS.
- 3. THE CONTRACTOR SHALL PATCH TO MATCH ANY DISTURBED AREAS AND FINISHES AS A RESULT OF THEIR ABATEMENT WORK. ANY DAMAGE SHALL BE REPAIRED TO THE
- 4. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE ASBESTOS DUMPSTER WITH THE OWNER.

OWNER'S AND ARCHITECT'S SATISFACTION AT NO ADDITIONAL COST TO THE OWNER.

5. THE CONTRACTOR MAY APPLY FOR PROJECT SPECIFIC VARIANCES. USE OF SUCH VARIANCES ARE SUBJECT TO APPROVAL BY THE OWNER AND ARCHITECT.



CPL | Architecture Engineering Planning

50 Front Street Suite 202,

Newburgh, NY 12550

CPLteam.com

PROJECT INFORMATION

14457.20

Client Name
SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

■ WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019

□ COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022

□ TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-012-020

□ WILLIAM O. SCHAEFER S&L SED#:50-03-01-06-0-012-020

□ COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023

□ COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002

□ WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001

□ SOMS OUTDOOR CLASSROOM SED#:50-03-01-06-7-056-001

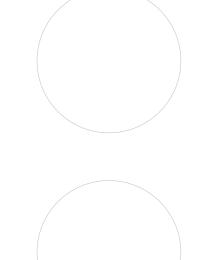
□ CLE OUTDOOR CLASSROOM SED#:50-03-01-06-7-054-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/23 BID ADDENDUM #4

☐ TZHS OUTDOOR CLASSROOM SED#:50-03-01-06-7-055-001

PROFESSIONAL STAMPS



EW YORK STATE EDUCATION STATEMENT

S A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSION
GUILATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICE
CHITECT, ENGINEER OR LAND SURVEYOR, TO ALIER AN ITEM IN ANY WAY. IF AN
ARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALI
RITY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLO
THE SYCHATURE AND THE DATE OF SUCH ALTERED AND AND AS PERSIFIC DESCRIPTION.

SHEET INFORMATION

Issued Scale

10/18/23 As indicated

Project Status

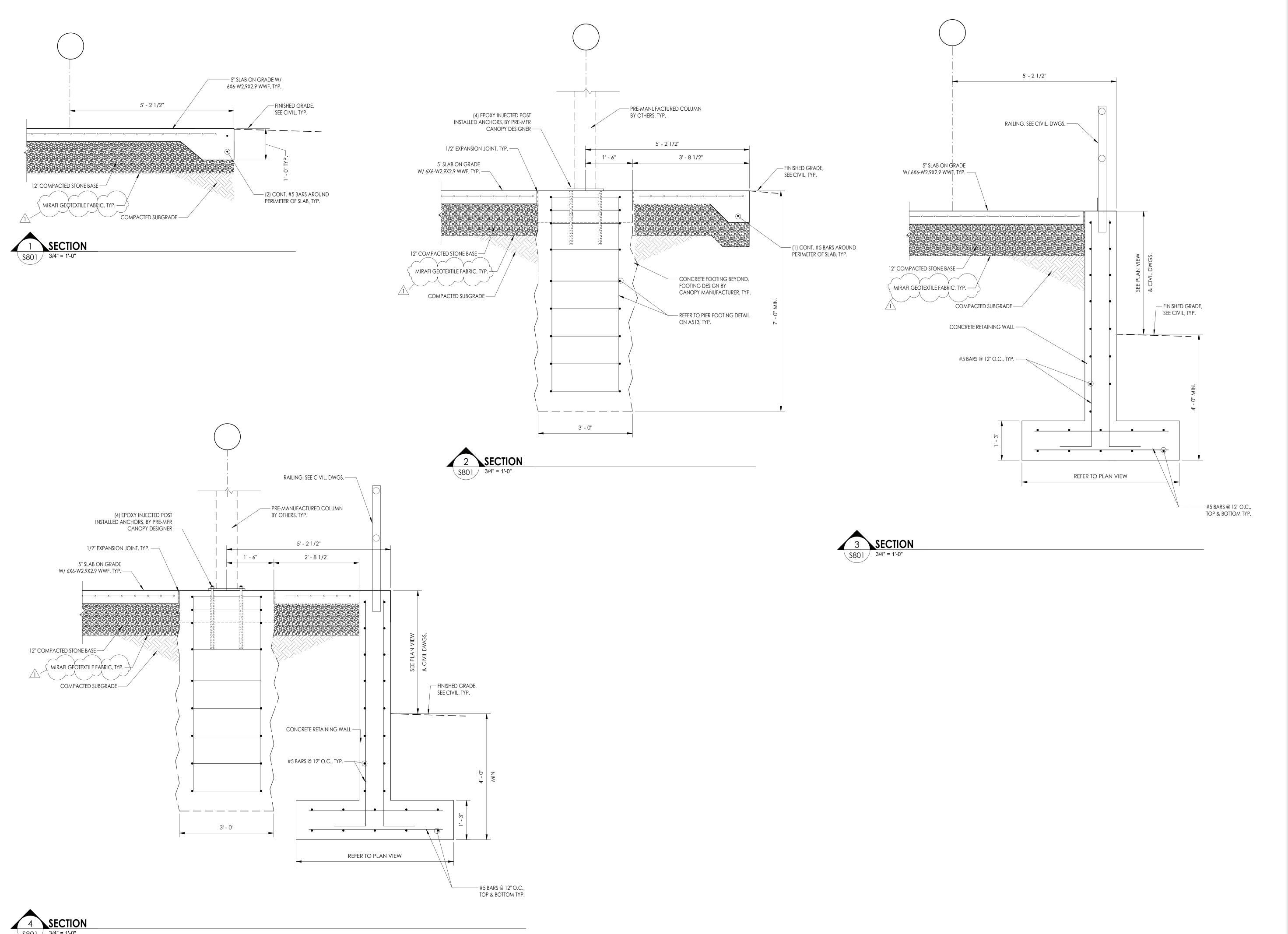
BID DOCUMENTS

Drawn By Check
CD LT

ASBESTOS ABATEMENT PLAN

WOS HZ100







50 Front Street Suite 202,

Newburgh, NY 12550

CPLteam.com



PROJECT INFORMATION

Project Number

14457.20

Client Name
SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

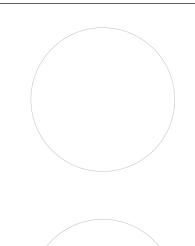
SOUTH ORANGETOWN CSD

PROJECT ISSUE & REVISION SCHEDULE

TZHS OUTDOOR CLASSROOM SED#:50-03-01-06-7-055-001

1 11-17-23 BID ADDENDUM #04

PROFESSIONAL STAMPS





ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, LENGINEER OR SURVEYOR IS ALTERED, THE ALTERN PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION O ALTERATION.

| Scale | Scale | 10/18/2023 | 3/4" = 1'-0" | Project Status

SHEET INFORMATION

BID DOCUMENTS

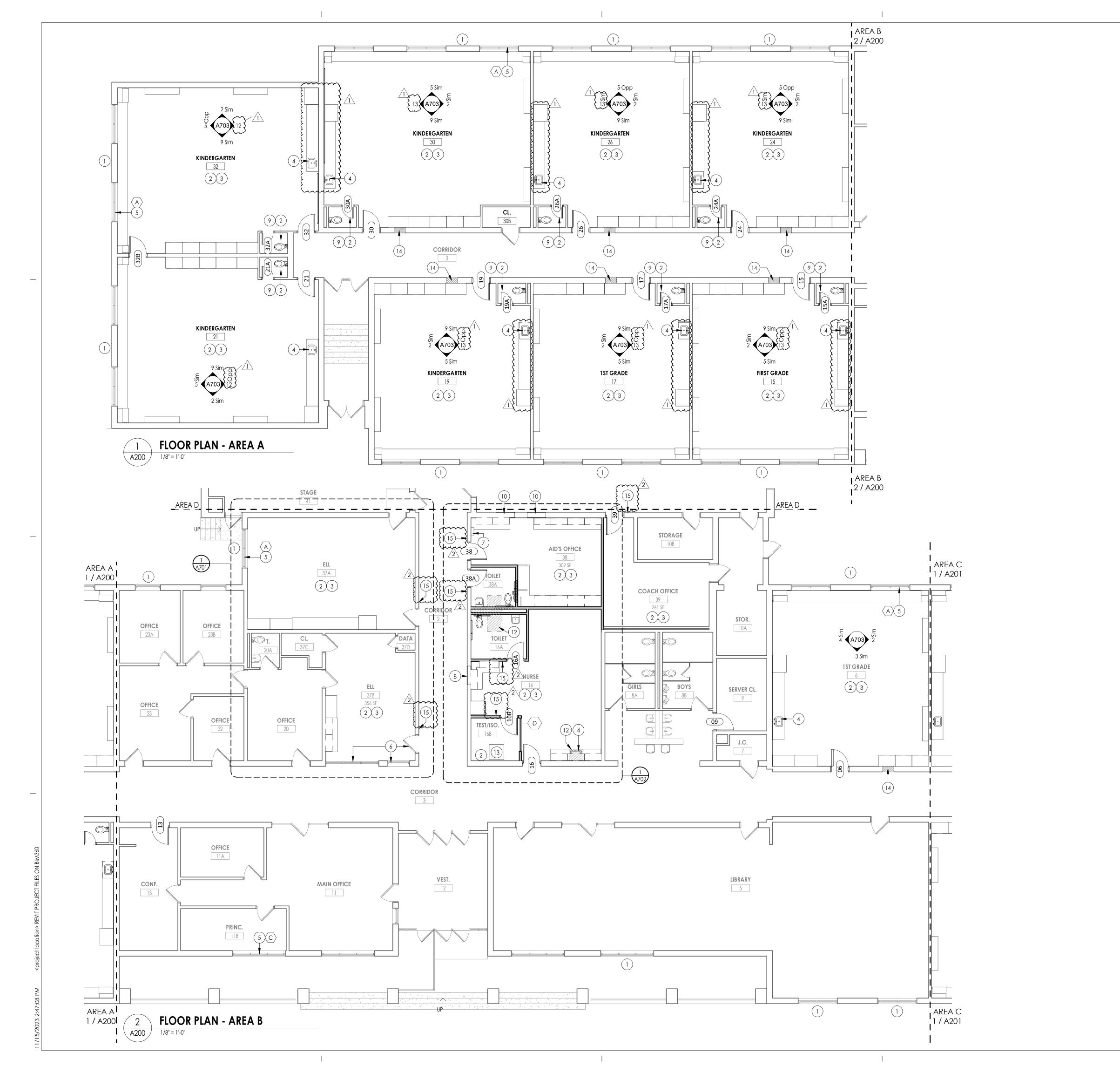
Drawn By Checked By

SAW JPR

Drawing Title
STRUCTURAL TYPICAL DETAILS

Drawing Number

GEN \$801



FLOOR PLAN GENERAL NOTES

- ALL DRAWINGS ARE GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING FINISHES AND EQUIPMENT NOT REMOVED UNDER THE SCOPE OF WORK. ANY DAMAGE WILL BE
- REPAIRED TO THE OWNER/ARCHITECT'S SATISFACTION AT NO COST TO THE OWNER. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOMED
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL BARRIERS AT ALL AREAS OF CONSTRUCTION.
- THE CONTRACTOR SHALL PATCH ALL SURFACES WHERE EXISTING MATERIALS HAVE BEEN DISTURBED TO MATCH AND BE FLUSH WITH ADJACENT CONSTRUCTION AT ALL FLOOR, WALL, AND CEILING LOCATIONS.
- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.

FLOOR PLAN KEY NOTES

CLEAN AT END OF EACH DAY.

- INFILL EXTERIOR MASONRY WALL AT DEMOLISHED UV LOCATIONS. REFER TO DETAIL 1/A810
- (2) NEW FLOORING & WALL BASE AS SPECIFIED, REFER TO 1200 SHEETS.
- (3) NEW CASEWORK REFER TO ELEVATIONS
- (4) NEW SINK BY PC
- (5) REPLACE WINDOW PANE WITH NEW GLAZING AT EXISTING AC REMOVAL
- (6) APPLY GRAPHIC PRIVACY FILM TO EXISTING GLAZING
- (7) EXISTING ELEC. PANEL TO REMAIN REFER TO ELECTRICAL DWGS
- (8) INFILL DEMOLISHED DOOR OPENING W/ CMU WALL.
- (9) NEW TOILET BY PC
- 10 INFILL DEMOLISHED DOOR OPENING W/ CMU WALL TOOTH, IN NEW WORK TO EXISTING APPLY PROTECTIVE PADDING GYM SIDE TO MATCH EXISTING.
- \nearrow ALTERNATE 1/GC-01: INFILL DEMOLISHED UV LOCATION WITH NEW $\$ CASEWORK AS SCHEDULED. REFER TO A800 FOR DETAILS.
- (12) INFILL CONCRETE FLOOR SLAB. REFER TO DETAIL 3/A810
- NEW METAL FLOOR ACCESS HATCH TO MATCH EXISTING. FINISH FLOORING TO MATCH NEW ADJACENT.
- INFILL FIRE RATED MASONRY WALL OPENING W/ MATERIALS TO MATCH (14) EXISTING AS REQUIRED FROM THE REMOVAL OF EXISTING LOW AND HIGH AIR RELIEF GRILLES. REFER TO MECHANICAL DRAWINGS. 15) PROVIDE ADA ROOM SIGNAGE. REFER TO SHEET WOS A900.

FLOOR PLAN LEGEND

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT. (DOOR) DOOR TARGET, SEE SCHEDULE WINDOW TARGET, SEE SCHEDULE

> **ROOM NAME** H1234.2 150 SF

10'-0" x 10'-0"

ROOM TAG

COLUMN LINE IDENTIFICATION

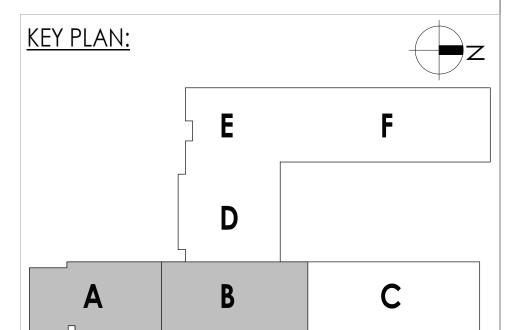
INTERIOR ELEVATION MARK

EXTERIOR ELEVATION MARK

DENOTES FINISH FLOOR GRADE ELEVATION

DETAIL FOR REFERENCE MARK

XXX WALL TYPE SEE A/400







PROJECT INFORMATION

14457.20 Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

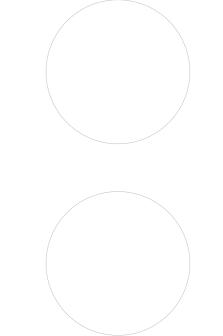
SOUTH ORANGETOWN CSD WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022

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PROJECT ISSUE & REVISION SCHEDUL

1 11/09/23 BID ADDENDUM #3 2 11/17/23 BID ADDENDUM #4

PROFESSIONAL STAMPS



SHEET INFORMATION

10/18/23 As indicated Project Status BID DOCUMENTS

NEW WORK PLAN - AREA A&B

A200





CPL | Architecture Engineering Planning

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50 Front Street Suite 202,



PROJECT INFORMATION

14457.20

Client Name SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address

160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032 WILLIAM O. SCHAEFER S&L SED#:50-03-01-06-0-012-020 COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#:50-03-01-06-7-056-001 CLE OUTDOOR CLASSROOM SED#:50-03-01-06-7-054-001 ☐ TZHS OUTDOOR CLASSROOM SED#:50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/09/23 BID ADDENDUM #3

2 11/17/23 BID ADDENDUM #4

PROFESSIONAL STAMPS

SHEET INFORMATION

10/18/23 As indicated Project Status

BID DOCUMENTS

NEW WORK PLAN - AREA E&F

WOS A202

	DOOR SCHEDULE- NEW															
DC	OOR			D	OOR PANELS	S				DOOR FRAM	\E				DOOR	
				1	TOTAL PANE	L DIMENSION	IS		FRA	AME DIMENS	IONS					
DOOR NUMBER	FIRE RATING (MIN)	ROOM NUMBER/NAME	PANEL TYPE	WIDTH	HEIGHT	THICKNESS	UNDERCUT	FRAME TYPE	JAMB WIDTH	HEAD HEIGHT	FRAME DEPTH	FRAME FINISH	HEAD DTL	JAMB DTL	COMMENTS	DOOR NUMBER
NISH FIRST FL	.OOR					_							_			
3	45	13 CONF.	PNL-N-WD	3'-0"	6'-10"	0'-1 3/4"	0'-0''	FRM-00HM1	0'-2"	0'-2"	0'-5 3/4"	PNT	6/A900	5/A900	1	3
6	45	16 NURSE	PNL-G-WD	3'-0"	7'-0"	0'-1 3/4"	0'-0''	FRM-00HM1	0'-2"	0'-2"	0'-5 3/4"	PNT	6/A900	5/A900	1	6
6A	-	16A TOILET	PNL-F-WD	3'-0"	7'-0"	0'-1 3/4"	0'-0''	FRM-00HM1	0'-2"	0'-2"	0'-5 3/4"	PNT	8/A900	7/A900	1	6A
6B	-	16B TEST/ISO.	PNL-F-WD	3'-0"	7'-0"	0'-1 3/4"	0'-0"	FRM-00HM1	0'-2"	0'-2"	0'-5 3/4"	PNT	8/A900	7/A900	1	6B
8	45	38 AID'S OFFICE	PNL-F-WD	3'-0"	7'-0"	0'-1 3/4"	0'-0''	FRM-00HM1	0'-2"	0'-2"	0'-5 3/4"	PNT	6/A900	5/A900	3	38
8A	45	38A TOILET	PNL-F-WD	3'-0"	7'-0"	0'-1 3/4"	0'-0"	FRM-00HM1	0'-2"	0'-2"	0'-5 3/4"	PNT	6/A900	5/A900	3	38A
9	-	39 COACH OFFICE	PNL-F-WD	3'-0"	7'-0''	0'-1 3/4"	0'-0"	FRM-00HM1	0'-2"	0'-2"	0'-5 3/4"	PNT	6/A900	5/A900		39
0	45	40 TOILET	PNL-F-WD	2'-8"	7'-0''	0'-1 3/4"	0'-0''	FRM-00HM1	0'-2"	0'-2"	1'-0 7/8"	PNT	4/A900	3/A900	4	10

DOOR FRAME

FRM-ETR PNT

FRM-ETR

FRM-ETR

FRM-ETR

FRM-ETR

FRM-ETR

FRM-FTR

FRM-ETR

FRM-ETR PNT

FRM-ETR

FRM-ETR

DOOR SCHEDULE- ETR FRAMES

PANEL TYPE | WIDTH | HEIGHT | THICKNESS | UNDERCUT | FRAME TYPE | FRAME FINISH

0'-1 3/4" 0'-0"

0'-1 3/4" 0'-0"

0'-1 3/4" 0'-0"

0'-1 3/4" 0'-0"

0'-4 1/256" 0'-0"

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0'-1 3/4" 0'-0"

0'-1 3/4" | 0'-0"

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DOOR PANELS

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7'-0''

PNL-N-WD 3'-0"

PNL-N-WD | 3'-0"

PNL-N-WD 3'-0"

PNL-N-WD 3'-0"

|PNL-V1-WD | 2'-0"

PNL-N-WD 3'-0"

|PNL-V1-WD | 2'-0"

PNL-N-WD 3'-0"

|PNL-V1-WD | 2'-0"

PNL-N-WD | 3'-0"

PNL-N-WD 3'-0"

PNL-N-WD | 3'-0"

PNL-N-WD 2'-8"

PNL-F-WD | 3'-0"

PNL-N-WD 3'-0"

PNL-V1-WD 2'-0"

104A KINDERGARTEN TOILET ROOM | PNL-V1-WD | 2'-0" | 7'-0" | 0'-1 3/4" | 0'-0"

PNL-N-WD 3'-0"

PNL-N-WD 3'-0" 7'-0"

PNL-N-WD

PNL-N-WD

PNL-N-WD

3'-0''

PNL-N-WD

PNL-F-WD

TOTAL PANEL DIMENSIONS

DOOR

NUMBER (MIN)

FINISH FIRST FLOOR

DOOR FIRE RATING

ROOM NUMBER/NAME

1 FIRST GRADE

2 FIRST GRADE

3 MAKERSPACE

4 FIRST GRADE

6 FIRST GRADE

15 FIRST GRADE

17 FIRST GRADE

19 FIRST GRADE

21 KINDERGARTEN

24 KINDERGARTEN

26 KINDERGARTEN

30 KINDERGARTEN

32 KINDERGARTEN

32 KINDERGARTEN

42 OFFICE

52 CUSTODIAL

57 SECOND GRADE

59 SECOND GRADE

63 SECOND GRADE

64 SECOND GRADE

65 SECOND GRADE

66 SECOND GRADE

67 SECOND GRADE

68 SECOND GRADE

104 KINDERGARTEN

105 KINDERGARTEN

100A SPEC.ED. TOILET ROOM

70 FIRST GRADE

100 SPEC.ED.

A900

1/4" = 1'-0"

61 FIRST GRADE

62 MUSIC

50 J.C.

15A FIRST GRADE TOILET ROOM

17A FIRST GRADE TOILET ROOM

19A FIRST GRADE TOILET ROOM

21A KINDERGARTEN TOILET ROOM | PNL-V1-WD | 2'-0"

24A KINDERGARTEN TOILET ROOM PNL-V1-WD 2'-0"

26A KINDERGARTEN TOILET ROOM PNL-V1-WD 2'-0"

30A KINDERGARTEN TOILET ROOM | PNL-V1-WD | 2'-0"

32A KINDERGARTEN TOILET ROOM PNL-V1-WD 2'-0"

9 SERVER CL.

PANEL 2" 2" HIDIN HEICHT HIDIN 12"	PANEL HEIGHT	43" MAX ADA 43" MAX ADA 43" MAX ADA 66", 90 0.00 0.00 0.00 0.00 0.00 0.00 0.00	PANEL WIDTH 10" G3	PANEL HEIGHT 3'-7" 2'-11" G G G G G G G G G G G G G
FRM-00 HM1 (SINGLE)	PNL-F-WD	PNL-N-WD	PNL-V1-WD	PNL-G-WD

DOOR FRAME TYPES

1/4" = 1'-0"

DOOR PANEL TYPES 1/4" = 1'-0"

DOOR AND FRAME NOTES 1. REFER TO A900S FOR DOOR & FRAME SCHEDULE 2. ALL FRAMES ARE TO RECEIVE FULL PERIMETER SEALANT. INTERIOR AND EXTERIOR 3. ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO BE VERIFIED IN FIELD AND COORDINATED WITH APPROVED SHOP DRAWINGS PRIOR TO FABRICATION. 4. SEE SCHEDULE FOR DOOR & FRAME MATERIAL DOOR AND FRAME SCHEDULE LEGEND DOOR OR FRAME FINISH CPL | Architecture Engineering Planning

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

DOOR OR FRAME MATERIAL

ACR ACROVYN DOOR ACR-L ACROVYN LEAD LINED DOOR ALUM ALUMINUM

HM HOLLOW METAL

PTD PAINT **WOOD STAIN** DB DARK BRONZE(ANODIZED) SS STAINLESS STEEL BE BAKED ENAMEL

HM-L HOLLOW METAL LEAD LINED IHM INSULATED HOLLOW METAL WD WOOD WD-L WOOD LEAD LINED

GLAZING TYPES

MAY VARY

G1 - INSULATED GLAZING G2 - FIRE RATED GLAZING G3 - TEMPERED GLAZING

SCHEDULED PARTITION

— SCHEDULED FRAME

FILLED W/ GROUT

— SCHEDULED DOOR

WRAPPED DOOR IN CMU - HEAD DETAIL

- EXISTING STEEL LINTELS TO REMAIN

50 Front Street Suite 202,

Newburgh, NY 12550

CPLteam.com

PROJECT INFORMATION

14457.20

Client Name SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name **PHASE 1: 2022 BOND**

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032 WILLIAM O. SCHAEFER S&L SED#:50-03-01-06-0-012-020 COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#:50-03-01-06-7-056-001 CLE OUTDOOR CLASSROOM SED#:50-03-01-06-7-054-001

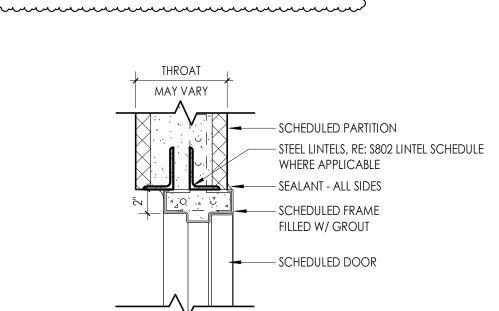
PROJECT ISSUE & REVISION SCHEDULE

PROFESSIONAL STAMPS

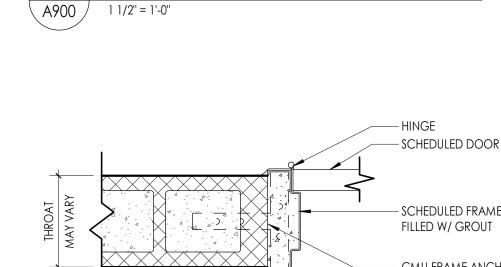
1 11/17/23 BID ADDENDUM #4

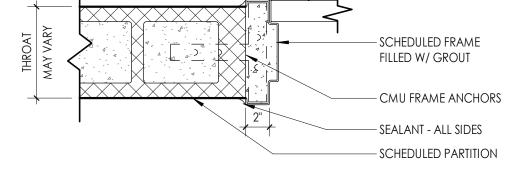
☐ TZHS OUTDOOR CLASSROOM SED#:50-03-01-06-7-055-001

 \cdots **ROOM NAME 00** GENDER NEUTRAL TYPE 'B' TYPE 'A' **ADA SIGN TYPES** 1 1/2" = 1'-0"











ALL EXISTING TO REMAIN FRAMES RECEIVING NEW DOORS TO BE PREPPED AND PAINTED. \downarrow

100A

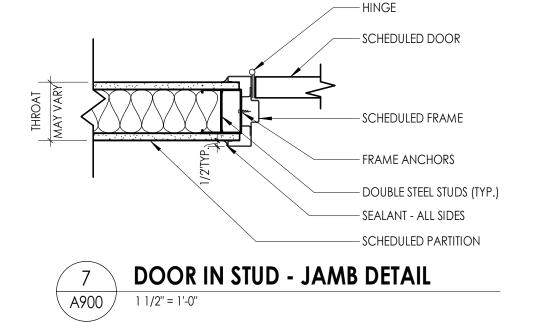
DOOR

DOOR NUMBER

24A

COMMENTS

SIGNAGE SC	HEDULE			
ROOM NAME/NUMBER	DOOR NUMBER	"TEXT"	TYPE	COMMENTS
OILET 16A	16A	"GENDER NEUTRAL"	В	REFER TO PLAN FOR LOCATION
EST/ISO. 16B	16B	"ISOLATION ROOM"	Α	REFER TO PLAN FOR LOCATION
ELL 37A	existing	"ROOM 37A"	Α	REFER TO PLAN FOR LOCATION
LL 37B	existing	"ROOM 37B"	Α	REFER TO PLAN FOR LOCATION
ID'S OFFICE 38	38	"AID'S OFFICE"	Α	REFER TO PLAN FOR LOCATION
OILET 38A	38A	"GENDER NEUTRAL"	В	REFER TO PLAN FOR LOCATION
COACH OFFICE 39	39	"ROOM 39"	Α	REFER TO PLAN FOR LOCATION
STAFF LOUNGE 51	EXISTING	"STAFF LOUNGE"	Α	REFER TO PLAN FOR LOCATION

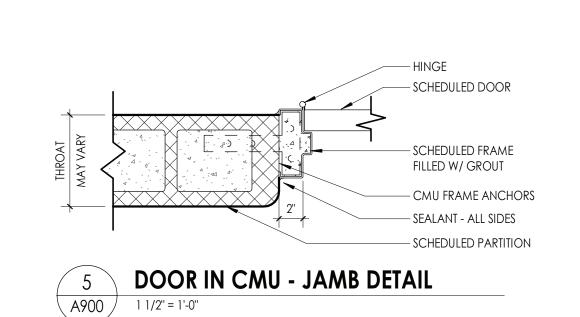


DOOR IN STUD - HEAD DETAIL

— SCHEDULED PARTITION

— SCHEDULED FRAME

—— SCHEDULED DOOR



ADA SIGN LOCATION

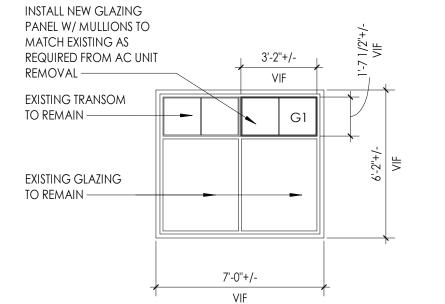
1/4" = 1'-0"

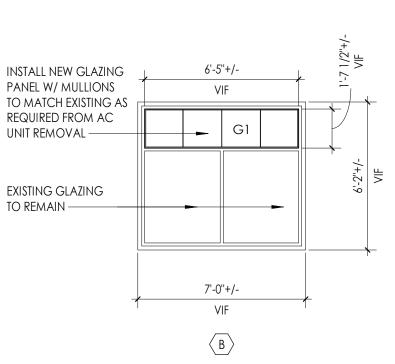
WINDOW GENERAL NOTES

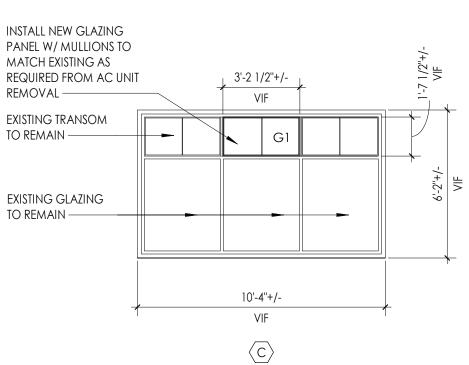
- 1. COORDINATE ALL FRAME SIZES, TRIM EXTRUSIONS AND SILLS WITH WALL SECTIONS AND DETAILS.
- 2. ALL FRAMES ARE TO RECEIVE FULL PERIMETER SEALANT. INTERIOR AND EXTERIOR 3. ALL DOOR AND WINDOW DIMENSIONS ARE TO BE VERIFIED IN FIELD PRIOR TO
- 4. REFER TO DIMENSION PLANS AND WALL SECTIONS FOR MULLION LAYOUT

FABRICATION.

DIMENSIONS.



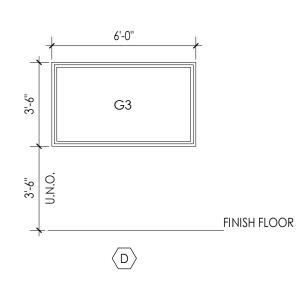




1/2" CLEAR~

1 1/2" = 1'-0"

\ A900 /



WINDOW TYPES

Drawing Title DOOR & WINDOW SYSTEMS TYPES & SCHEDULES

SHEET INFORMATION

Issued 10/18/23

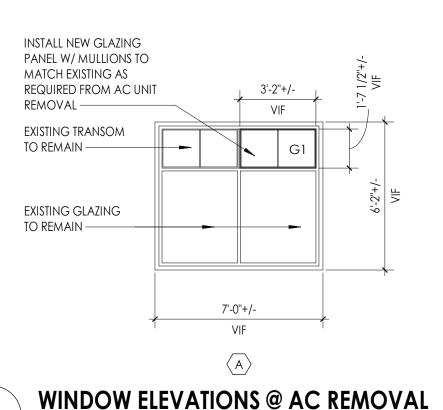
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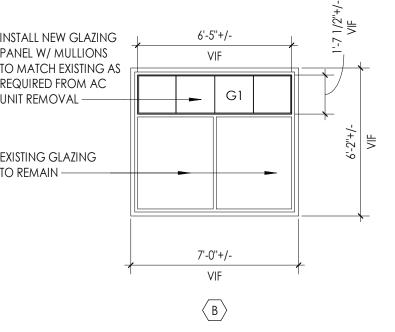
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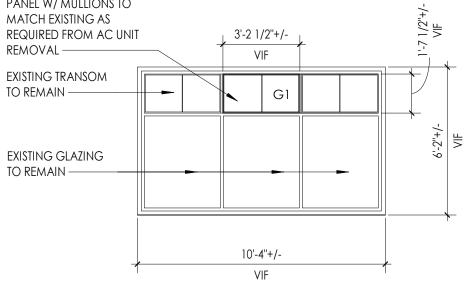
BID DOCUMENTS

As indicated

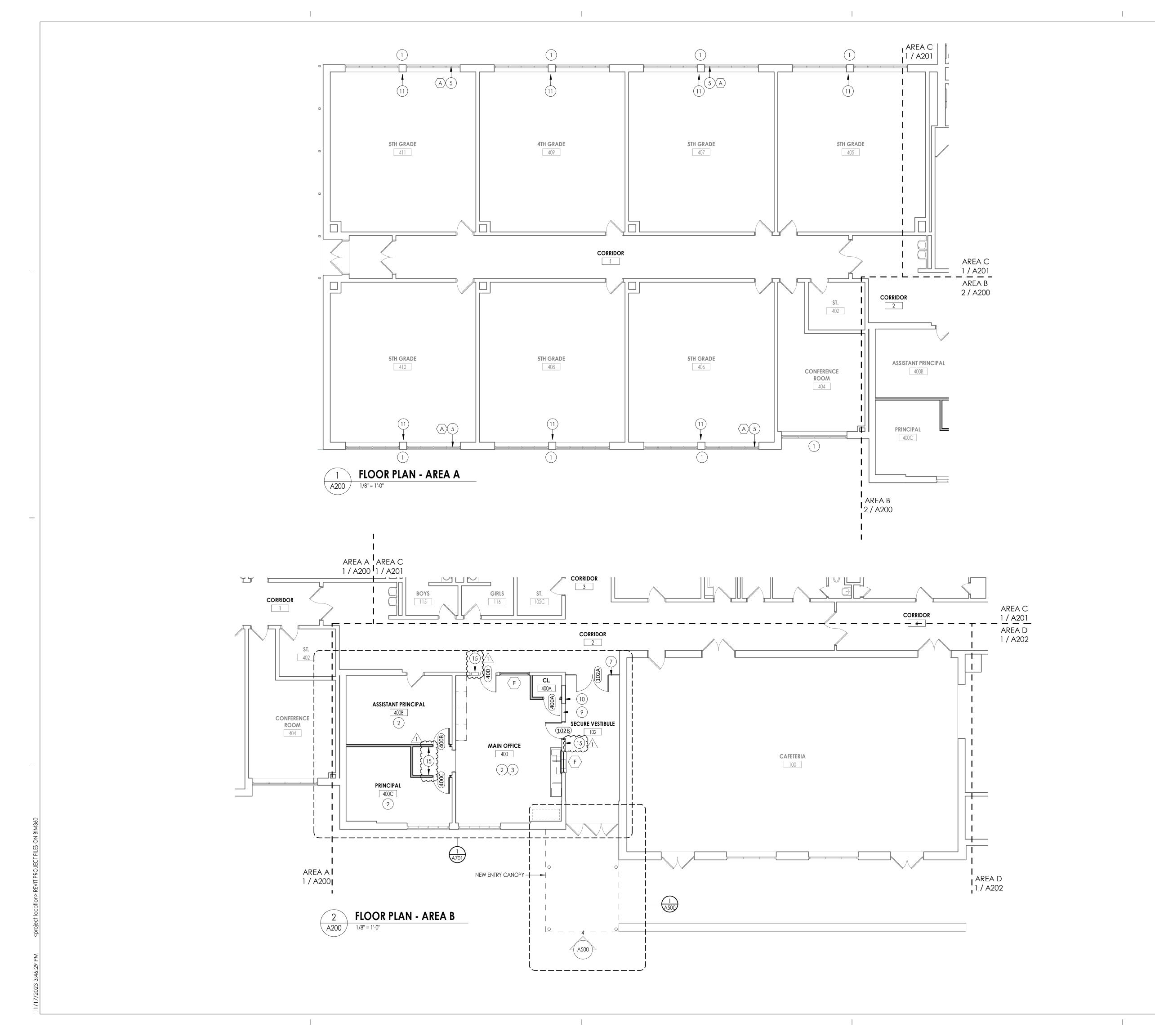
Checked By







A900 /



FLOOR PLAN GENERAL NOTES

- 1. ALL DRAWINGS ARE GRAPHIC REPRESENTATION OF APPROXIMATE LOCATIONS OF EXISTING AND NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING FINISHES AND EQUIPMENT NOT REMOVED UNDER THE SCOPE OF WORK. ANY DAMAGE WILL BE REPAIRED TO THE OWNER/ARCHITECT'S SATISFACTION AT NO COST TO THE OWNER.
- REPAIRED TO THE OWNER/ARCHITECT'S SATISFACTION AT NO COST TO THE OWNER.

 3. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOMED
- 4. THE CONTRACTOR SHALL PROVIDE DUST CONTROL BARRIERS AT ALL AREAS OF CONSTRUCTION.
- THE CONTRACTOR SHALL PATCH ALL SURFACES WHERE EXISTING MATERIALS HAVE BEEN DISTURBED TO MATCH AND BE FLUSH WITH ADJACENT CONSTRUCTION AT ALL FLOOR, WALL, AND CEILING LOCATIONS.
- 5. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.

FLOOR PLAN LEGEND

CLEAN AT END OF EACH DAY.

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

DOOR TARGET, SEE SCHEDULE

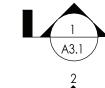
WI) WINDOW TARGET, SEE SCHEDULE

COLUMN LINE IDENTIFICATION

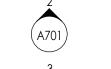
ROOM NAME H1234.2 150 SF

10'-0" x 10'-0"

ROOM TAG

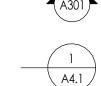


SECTION MARK



INTERIOR ELEVATION MARK

EXTERIOR ELEVATION MARK



DETAIL FOR REFERENCE MARK

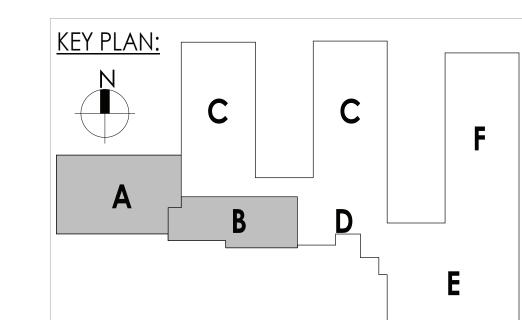


DENOTES FINISH FLOOR GRADE ELEVATION



FLOOR PLAN KEY NOTES

- INFILL EXTERIOR MASONRY WALL AT DEMOLISHED UV LOCATIONS. REFER TO DETAIL 2/A810
- 2 NEW VCT FLOORING & WALL BASE, FULL EXTENT OF ROOM
- 3 NEW CASEWORK
- 4 NEW SINK REFER TO PLUMBING
- (5) REPLACE WINDOW PANE W/ NEW GLAZING AT EXISTING AC OPENING
- 6 INFILL DEMOLISHED DOOR OPENING W/ STUD WALL
- 7 NEW STOREFRONT SYSTEM
- 8 NEW METAL PAN STAIR & HANDRAIL
- 9 FIRE RATED TRANSACTION WINDOW
- (10) INFILL DEMOLISHED DOOR OPENING W/ CMU WALL
- ALTERNATE 2/ GC-02: INFILL DEMOLISHED UV LOCATION WITH NEW CASEWORK TO MATCH EXISTING. SEE DETAIL 5/A800
- (12) INFILL CONCRETE FLOOR SLAB. REFER TO DETAIL
- (13) PATCH WALL AS REQ'D AT DEMOLISHED SPLIT SYSTEM
- 14) INFILL DEMOLISHED FIRE SHUTTER OPENING W/ STUD WALL
- (15) PROVIDE ADA SIGNAGE. REFER TO CLE A900.







PROJECT INFORMATION

14457.20 Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

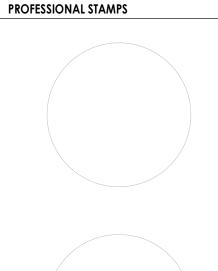
District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/23 BID ADDENDUM #4

DROFFCCIONIAL CTAMA





NEW YORK STATE EDUCATION STATEMENT

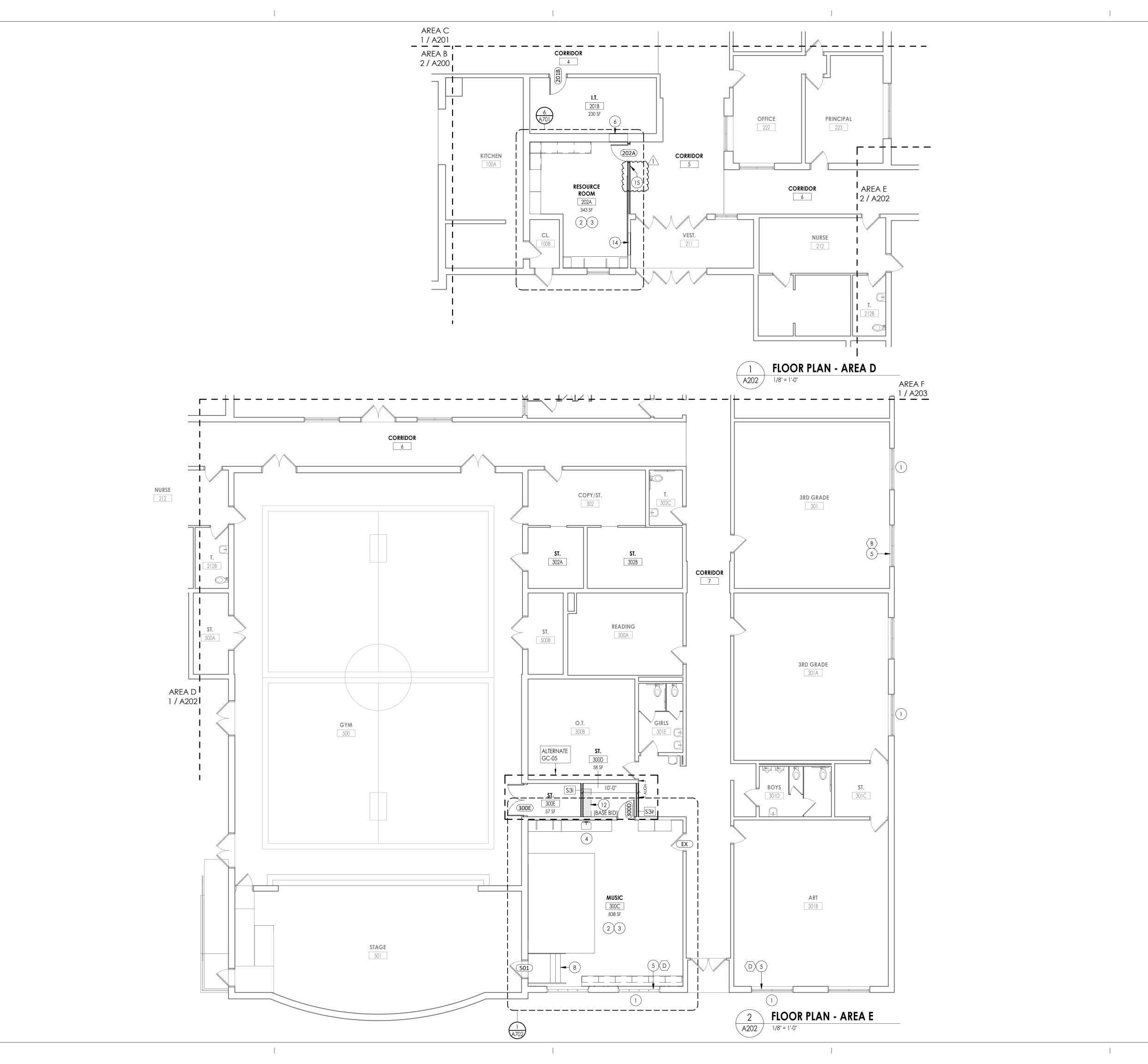
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'
REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSEL
ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM
BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERIN
PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWER
THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION O
ALTERATION.

SHEET INFORMATION
Issued

10/18/23 As indicated
Project Status
BID DOCUMENTS
Drawn By Checked By

LF LT
Drawing Title
NEW WORK PLAN - AREA A&B

Drawing Number



FLOOR PLAN GENERAL NOTES

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- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.

FLOOR PLAN LEGEND

CLEAN AT END OF EACH DAY.

NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

(DOOR) DOOR TARGET, SEE SCHEDULE

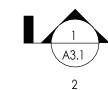
WINDOW TARGET, SEE SCHEDULE

COLUMN LINE IDENTIFICATION

ROOM NAME H1234.2 150 SF

10'-0" x 10'-0"

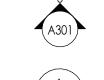
ROOM TAG



SECTION MARK



INTERIOR ELEVATION MARK



DETAIL FOR REFERENCE MARK

EXTERIOR ELEVATION MARK

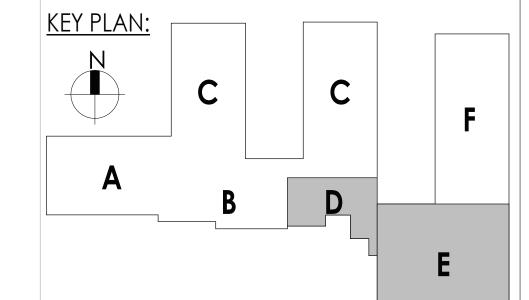


DENOTES FINISH FLOOR GRADE ELEVATION



FLOOR PLAN KEY NOTES

- INFILL EXTERIOR MASONRY WALL AT DEMOLISHED UV LOCATIONS. REFER TO
- (3) NEW CASEWORK
- (5) REPLACE WINDOW PANE W/ NEW GLAZING AT EXISTING AC OPENING
- (6) INFILL DEMOLISHED DOOR OPENING W/STUD WALL
- (7) NEW STOREFRONT SYSTEM
- ALTERNATE 2/ GC-02: INFILL DEMOLISHED UV LOCATION WITH NEW CASEWORK TO MATCH EXISTING. SEE DETAIL 5/A800
- (14) INFILL DEMOLISHED FIRE SHUTTER OPENING W/ STUD WALL $\widetilde{\cdots}$
- 15) PROVIDE ADA SIGNAGE. REFER TO CLE A900.







PROJECT INFORMATION

14457.20 Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD.

BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD ☐ WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032] WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020 COTTAGE LANE \$&L SED#: 50-03-01-06-0-010-023 COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 WOS OUTDOOR CLASSROOM SED#:50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#:50-03-01-06-7-056-001

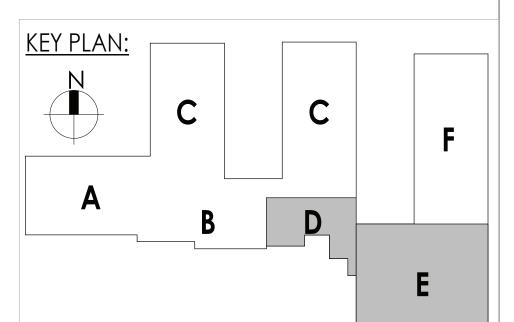
PROJECT ISSUE & REVISION SCHEDULE

1 11/17/23 BID ADDENDUM #4

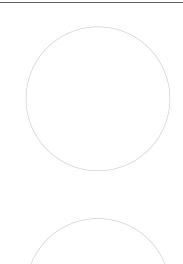
CLE OUTDOOR CLASSROOM SED#:50-03-01-06-7-054-001

☐ TZHS OUTDOOR CLASSROOM SED#:50-03-01-06-7-055-001

- DETAIL 2/A810
- (2) NEW VCT FLOORING & WALL BASE, FULL EXTENT OF ROOM
- (4) NEW SINK REFER TO PLUMBING
- (8) NEW METAL PAN STAIR & HANDRAIL
- (9) FIRE RATED TRANSACTION WINDOW
- (10) INFILL DEMOLISHED DOOR OPENING W/ CMU WALL
- (12) INFILL CONCRETE FLOOR SLAB. REFER TO DETAIL
- (13) PATCH WALL AS REQ'D AT DEMOLISHED SPLIT SYSTEM
- himmen and the second second



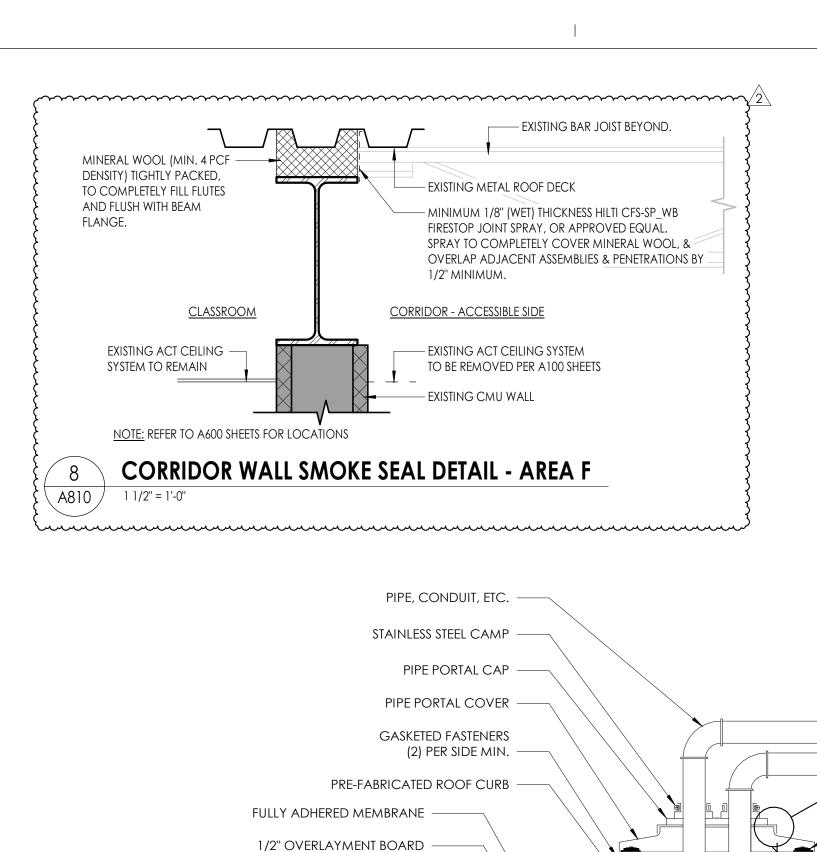
PROFESSIONAL STAMPS



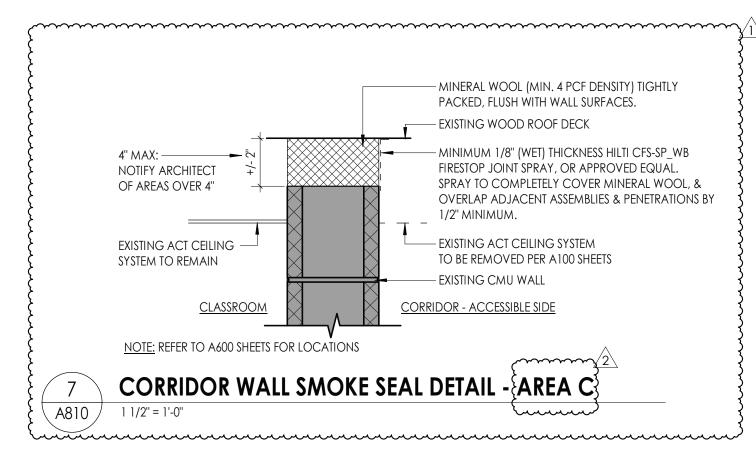
SHEET INFORMATION

Issued 10/18/23 As indicated Project Status BID DOCUMENTS

NEW WORK PLAN - AREA D&E



VAPOR RETARDER

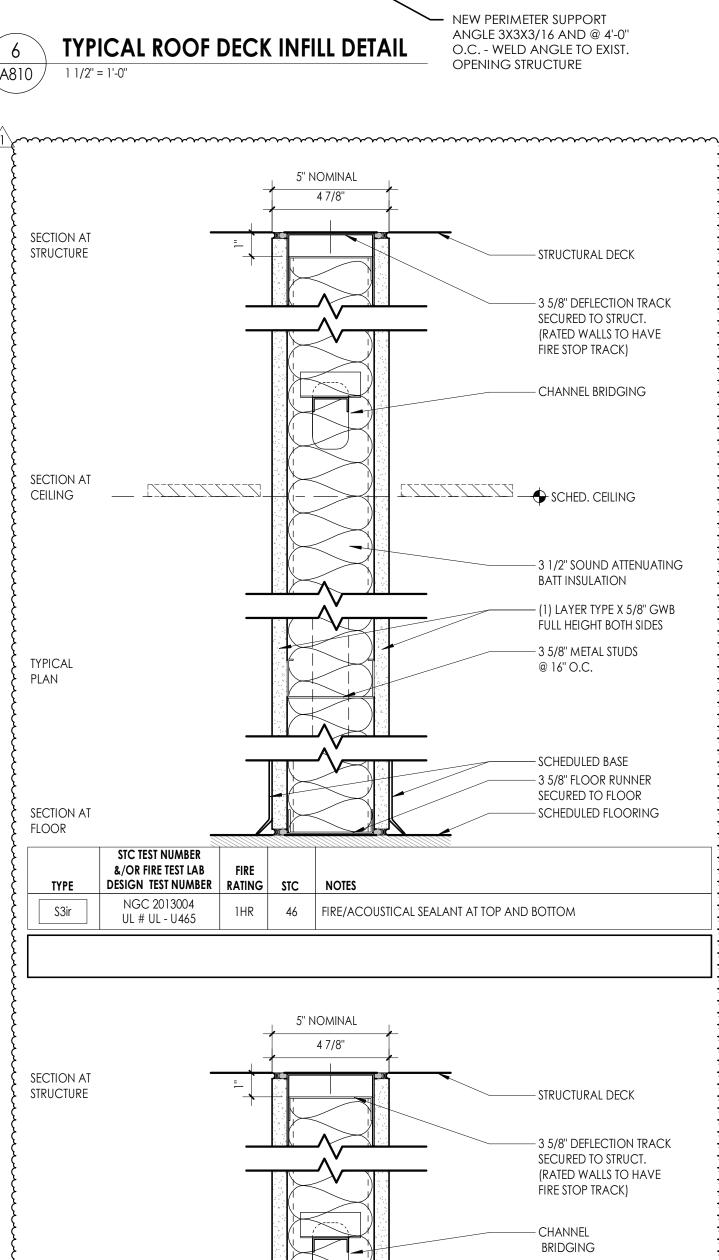


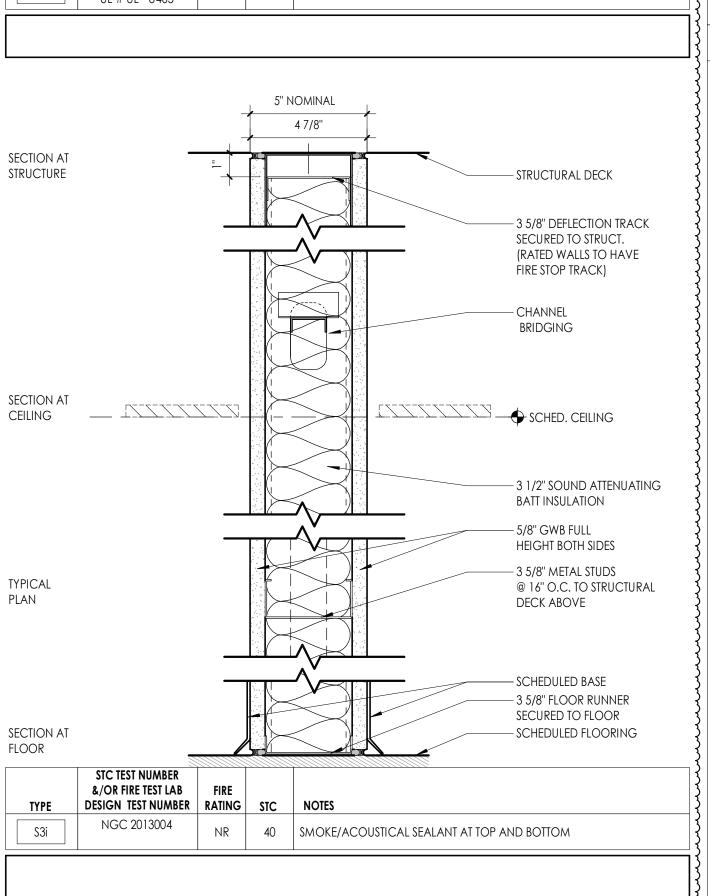
SNAP CAP TO LOCK

- WATER CUT-OFF MASTIC

ADHERED MEMBRANE FLASHING

— Detail 'a'-





PARTITION GENERAL NOTES

- REMOVE EXIST. CURB & CAP

MODIFIED MEMBRANE

SINGLE-PLY MEMBRANE

EXIST. GYPSUM DECK TO REMAIN

POLYISO, TAPERED INSULATION

REFER TO ROOF PLAN FOR

1 1/2" METAL DECK - BY GC

EXIST. OPENING STRUCTURE

1/2" GYPSUM BOARD

VARYING THICKNESS

- 1. ALL WALL TYPES MAY NOT BE USED ON THIS PROJECT.
- 2. UNLESS NOTED OTHERWISE ALL PARTITIONS ARE FULL HEIGHT, EXTEND & SECURE TO UNDERSIDE OF CONCRETE OR METAL DECK ABOVE.
- 3. PROVIDE UL APPROVED JOINT AT ALL TOP OF WALL AND WALL TO WALL CONDITIONS AT ALL RATED
- 4. PROVIDE DEFLECTION TRACKS AT METAL STUD PARTITIONS THAT TERMINATE AT THE UNDERSIDE OF
- 5. REFER TO CODE/LIFE SAFETY DRAWINGS FOR RATED PARTITIONS AND UL ASSEMBLIES. 6. REFER TO INTERIOR DRAWINGS FOR LOCATIONS OF WALL TILE, AND OTHER SPECIALTY WALL FINISHES. PROVIDE 5/8" TILE BACKER BOARD AT ALL WALLS RECEIVING TILE.
- 7. PROVIDE MOISTURE RESISTANT GYP. BD. AT ALL TOILET ROOMS, JANITOR'S CLOSETS AND OTHER WET LOCATIONS WHERE TILE AND TILE BACKER BOARD ARE NOT INSTALLED.
- 8. PARTITION TYPES WITH ONE SIDE OF DOUBLE DRYWALL TO BE PLACED SO THAT THE DOUBLE SIDE IS
- ON CORRIDOR AND/OR HIGH TRAFFIC SIDE OF WALL. 9. REFER TO SPECIFICATIONS FOR METAL STUD GAUGE REQUIREMENTS.
- 10. COORDINATE ALL PARTITION ACCESSORIES (APPLIED FINISHES, RESILIENT CHANNEL, ADDITIONAL LAYERS OF SHEATHING, SHIELDING, ETC.) ITEMS SHOWN IN TYPICAL WALL CONSTRUCTION DETAILS MAY HAVE TO BE ARRANGED ON DIFFERENT SIDES OF WALL ASSEMBLY TO ACHIEVE FLUSH CONTINUOUS WALL SURFACES. ANY CONFLICTS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- 11. FIRESTOP/ SMOKE STOP ALL REQUIRED WALL PARTITIONS, SLABS, AND PENETRATIONS THROUGH NEW AND EXISTING WALLS WITHIN THE PROJECT LIMITS IN COORDINATION WITH CODE PLAN, OR WHERE
- COORDINATED SYSTEMS CONNECTION POINTS ARE LOCATED OUTSIDE THE PROJECT LIMIT AREA. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS AND SPECIFICATION DIVISION

12. NOTIFY OWNER AND ARCHITECT IF EXISTING NON-COMPLIANT PENETRATIONS ARE DISCOVERED NOT

- FIRESTOPPPED IN COORDINATION WITH CODE PLAN. 13. PROVIDE CONTROL JOINT WHERE NEW PARTITIONS BUTT EXISTING CONSTRUCTION.
- 14. PROVIDE CONTROL JOINTS A MAXIMUM OF 30'-0" APART UNLESS NOTED OTHERWISE, PER ASTM C 840-17A, LOCATE ABOVE DOOR FRAMES WHERE POSSIBLE.
- 15. PROVIDE SUPPORT BLOCKING AND STRAPPING FOR ALL MILLWORK, CASEWORK, AND WALL MOUNTED ACCESSORIES.

PARTITION TYPE TAG LEGEND PARTITION CONSTRUCTION TYPE — RATING SUFFIX & SIZE SEE LEGEND BELOW -

PARTITION CONSTRUCTION TYPE & SIZE LEGEND

- S# STEEL STUDS FINISH BOTH SIDES M# CONCRETE MASONRY UNIT 4 = 4" NOMINAL CMU • 1 = 1 5/8" C STUD 6 = 6" NOMINAL CMU • 8 = 8" NOMINAL CMU 2 = 2 1/2" C STUD 3 = 3 5/8" C STUD 10 = 10" NOMINAL CMU 4 = 4" C STUD • 12 = 12" NOMINAL CMU 6 = 6" C STUD • 8 = 8" C STUD F# STEEL STUD FURRING
 - A APPLIED FINISH
 NON SELF SUPPORTING/ATTACHED TO OTHER STRUCTURE C# RESILIENT CHANNEL
 NON SELF SUPPORTING/ATTACHED TO

- ACCESSORY SUFFIX(S)

SEE LEGEND BELOW

- 6 = 6" C STUD OTHER STRUCTURE • 8 = 8" C STUD W# STEEL STUD SHAFT WALL ASSEMBLY • 1 = 1/2" RC-1 RESILIENT CHANNEL • 2 = 1/2" RC-2 RESILIENT CHANNEL ■ FINISH ONE SIDE
 - 2 = 2 1/2" CH SHAFT WALL 4 = 4" CH SHAFTWALL STUD NON SELF SUPPORTING/ATTACHED TO OTHER
- 6 = 6" CH SHAFTWALL STUD STRUCTURE 1 = 7/8" HAT CHANNEL B# CONSTRUCTION BARRIER/TEMP WALL 2 = 1 1/2" HAT CHANNEL 1 = 1 5/8" C STUD • 2 = 2 1/2" C STUD
 - Z# ZEE-FURRING • 3 = 3 5/8" C STUD NON SELF SUPPORTING/ATTACHED TO OTHER 4 = 4" C STUD STRUCTURE 6 = 6" C STUD • 1 = 1" ZEE FURRING 8 = 8" C STUD
 - 1.5 = 1 1/2" ZEE FURRING 2 = 2" ZEE FURRING • 2.5 = 2 1/2" ZEE FURRING • 3 = 3" ZEE FURRING

PARTITION TYPE SUFFIX

ACCESSORIES SUFFIX:

FINISH ONE SIDE

1 = 1 5/8" C STUD

2 = 2 1/2" C STUD

3 = 3 5/8" C STUD

4 = 4" C STUD

- i Sound attenuating batt insulation (fiberglass) friction fit between studs to fill cavity
- W SOUND ATTENUATING FIRE BATT INSULATION (ROCK WOOL) FRICTION FIT BETWEEN STUDS TO FILL † - CERAMIC WALL TILE (1) SIDE W/ THINSET MORTAR BED, 5/8" CEMENT BACKER BOARD IN LIEU OF 5/8"
- GYP. AT TILE LOCATIONS SEE INTERIOR ELEVATIONS FOR TILE EXTENTS tt - CERAMIC WALL TILE (2) SIDES W/ THINSET MORTAR BED, 5/8" CEMENT BACKER BOARD IN LIEU OF 5/8"
- GYP. AT TILE LOCATIONS SEE INTERIOR ELEVATIONS FOR TILE EXTENTS b - INTERIOR VENEER MASONRY/STONE APPLIED FINISH, REFER TO DETAILS FOR CONSTRUCTION, AND
- g CMU WALL GROUT CORES SOLID

INTERIOR ELEVATIONS FOR EXTENTS

- s ADD 1/2" RC1 RESILIENT SOUND CHANNEL BEHIND SPECIFIED SHEATHING
- k ADD ADDITIONAL (1) LAYER OF 5/8" GYP BOARD, TO ONE SIDE OF WALL
- kk ADD ADDITIONAL (2) LAYERS OF 5/8" GYP BOARD, (1) EA. SIDE OF WALL
- e ADD ADDITIONAL (1) LAYER OF 5/8" FRT PLYWOOD BOLTED TO WALL FOR MOUNTING OF ELECTRICAL PANELS/ EQUIPMENT WHERE NOTED ON ELEC. DWGS.
- v SUBSTITUE (1) LAYER OF 5/8" SOUNDBLOCK GYP. W/ INTEGRAL VISCOELASTIC POLYMER CORE FOR (1) LAYER OF SPECIFIED 5/8" TYPE X GYP.
- vv SUBSTITUE 5/8" SOUNDBLOCK GYP. W/ INTEGRAL VISCOELASTIC POLYMER CORE FOR ALL LAYER OF SPECIFIED 5/8" TYPE X GYP.
- p LEAD SHIELDING REFER TO PHYSICIST REPORT FOR REQUIREMENTS
- x COPPER MAGNETIC/RF SHIELDING REFER TO PHYSICIST REPORT FOR REQUIREMENTS
- c WALL FINISH TO TERMINATE 6" ABV. HIGHEST ADJACENT CEILING STUDS TO RUN TO UNDERSIDE OF DECK ABOVE.
- y WALL STRUCTURE TERMINATES 12" ABV. HIGHEST ADJACENT CEILING, PROVIDE STRUCTURAL BRACING AT TOP OF WALL AS REQUIRED.
- n KNEE WALL, REFER TO INTERIOR ELEVATIONS FOR HEIGHT & SILL CONDITION, REFER TO STRUCTURAL DETAILS FOR REQUIRED SUPPLEMENTAL STEEL AND ANCHORING REQUIREMENTS

- r 1 HR RATED ASSEMBLY REFER TO UL DETAILS FOR RATED CONSTRUCTION REQUIREMENTS
- d 2 HR RATED ASSEMBLY REFER TO UL DETAILS FOR RATED CONSTRUCTION REQUIREMENTS

CPL | Architecture Engineering Planning 50 Front Street Suite 202,

Newburgh, NY 12550

CPLteam.com



PROJECT INFORMATION

14457.20

Client Name SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

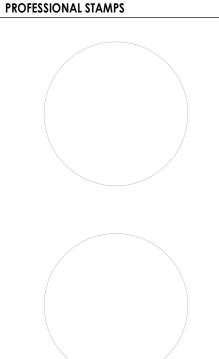
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PROJECT ISSUE & REVISION SCHEDULI

1 11/09/23 BID ADDENDUM #3 2 11/17/23 BID ADDENDUM #4

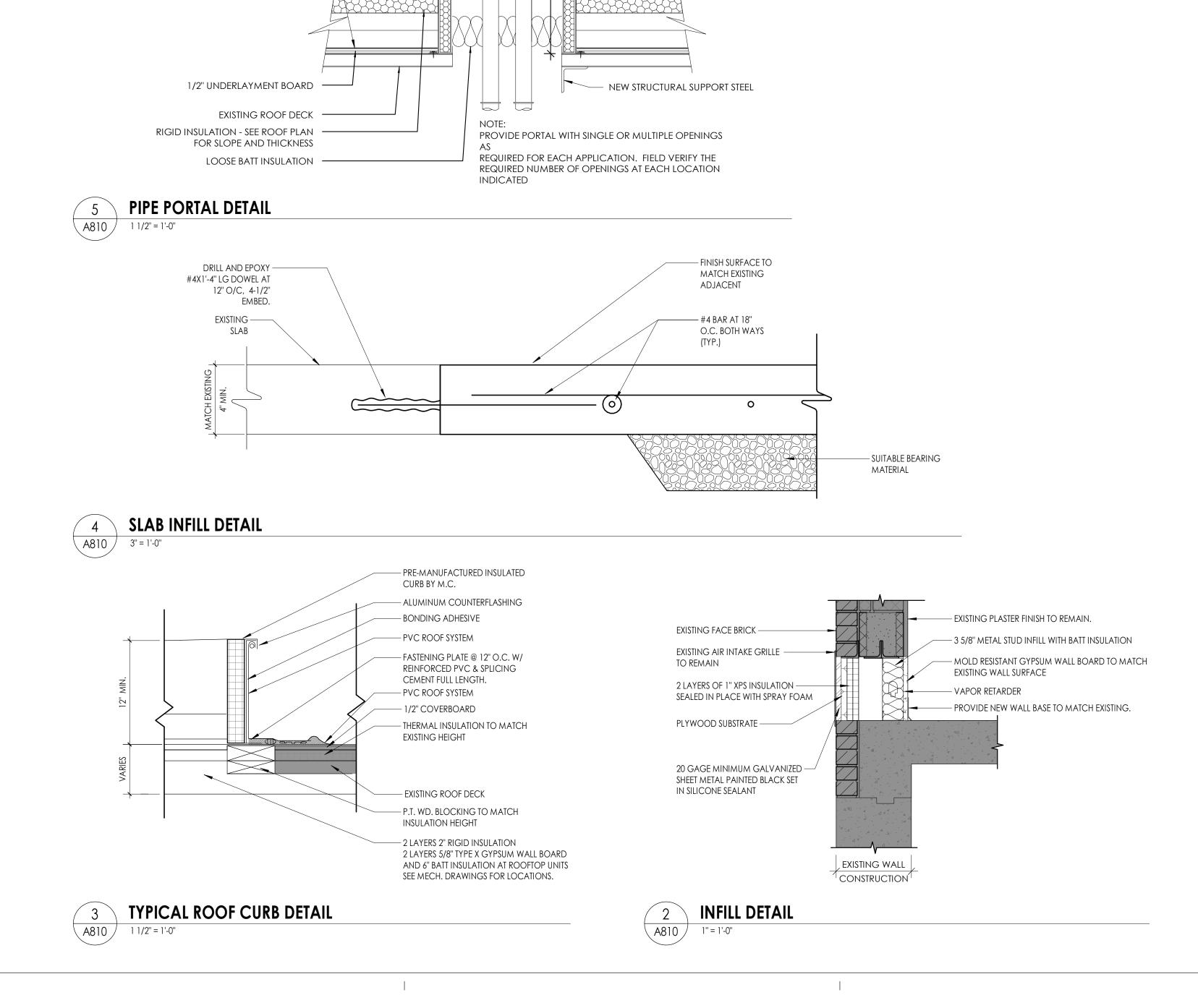


SHEET INFORMATION Issued

10/18/23 As indicated Project Status

BID DOCUMENTS Author Checker

WALL TYPES & MISC. DETAILS



									DOC	OR SCHED	ULE- N	IEW							
					DO	OR PANELS						OOR FRAME						DOOR	
			PAN	EL TYPE		E PANEL NSIONS	TOTAL	PANEL DIM	ENSIONS		FR	AME DIMENS	IONS						
DOOR NUMBER	FIRE RATING (MIN)	ROOM NUMBER/NAME	PANEL 1	PANEL 2	PANEL 1	PANEL 2	WIDTH	HEIGHT	THICKNESS	FRAME TYPE	JAMB WIDTH	HEAD HEIGHT	FRAME DEPTH	FRAME FINISH	HEAD DTL	JAMB DTL		COMMENTS	DOOR NUMBE
nish fir:	ST FLOOR				·														
)2A	-	102 SECURE VESTIBULE	PNL-G2-AL	PNL-G2-AL	3'-0"	3'-0"	6'-0"	7'-0"	0'-1 3/4"	FRM-00AL(CW)	0'-0"	0'-0"	0'-0"	MFR	7/A900	8/A900	REFER TO CW1		102A
02B	45	400 MAIN OFFICE	PNL-N-WD		3'-0"		3'-0"	7'-0''	0'-1 3/4"	FRM-00HM1	0'-2"	0'-2"	0'-8 7/8"	PNT	5/A900	6/A900			102B
01B	45	201B I.T.	PNL-F-WD		3'-0"		3'-0"	7'-0''	0'-1 3/4"	FRM-00HM1	0'-2"	0'-2"	0'-8 7/8"	PNT	5/A900	6/A900			201B
02A	45	202A RESOURCE ROOM	PNL-N-WD		3'-0"		3'-0"	7'-0''	0'-1 3/4"	FRM-00HM1	0'-2"	0'-2"	0'-5 3/4"	PNT	1/A900	2/A900			202A
00D		300D ST.	PNL-F-WD		3'-0"		3'-0"	7'-0"	0'-1 3/4"	FRM-00HM1	0'-2"	0'-2"	0'-7 7/8"	PNT	5/A900	6/A900	ALTERNATE GC-05		300D
DOE		300E ST.	PNL-F-WD	PNL-F-WD	2'-10"	2'-10"	5'-8"	7'-0"	0'-1 3/4"	FRM-00HM1	0'-2"	0'-2"	0'-8 3/4"	PNT	3/A900	4/A900	ALTERNATE GC-05		300E
00	45	400 MAIN OFFICE	PNL-G2-WD		3'-0"		3'-0"	7'-0"	0'-1 3/4"	FRM-20HM1	0'-2"	0'-2"	0'-8 7/8"	PNT	5/A900	6/A900			400
00A		400A CL.	PNL-F-WD		3'-0"		3'-0"	7'-0''	0'-1 3/4"	FRM-00HM1	0'-2"	0'-2"	0'-5 3/4"	PNT	1/A900	2/A900			400A
ООВ		400B ASSISTANT PRINCIPAL	PNL-N-WD		3'-0"		3'-0"	7'-0''	0'-1 3/4"	FRM-00HM1	0'-2"	0'-2"	0'-5 3/4"	PNT	1/A900	2/A900			400B
00C		400C PRINCIPAL	PNL-N-WD		3'-0"		3'-0"	7'-0"	0'-1 3/4"	FRM-00HM1	0'-2"	0'-2"	0'-5 3/4"	PNT	1/A900	2/A900			400C

OFCI DOOR	SCHEDIIIE	- NFW	FRAMES

							Oic			JULL -	14644 1	IV/ VIVILO	
			DOO	R PANELS		D	OOR FRAME					DOOR	
			PANEL TYPE	SINGLE PANEL DIMENSIONS		FRA	ME DIMENS	IONS					
D	OOR FIRE RATING			WIDTH		JAMB	HEAD	FRAME					
NU	MBER (MIN)	ROOM NUMBER/NAME	PANEL 1	PANEL 1	FRAME TYPE	WIDTH	HEIGHT	DEPTH	FRAME FINISH	HEAD DTL	JAMB DTL	COMMENTS	DOOR NUMBER
FIN	SH FIRST FLOOR												
112	45	112 GIRLS	PNL-F-WD	3'-0"	FRM-00HM1	0'-2"	0'-2"	0'-8 7/8"	PNT	5/A900	6/A900	OFCI - DOOR, HW AND HC OPERATOR. PROVIDE NEW FRAME AS SCHEDULED	112
114	45	114 BOYS	PNL-F-WD	3'-0"	FRM-00HM1	0'-2"	0'-2"	0'-8 7/8"	PNT	5/A900	6/A900	OFCI - DOOR, HW AND HC OPERATOR. PROVIDE NEW FRAME AS SCHEDULED	114

0'-2"

FRM-00HM1

FRM-00HM1

0'-8 7/8" PNT

0'-8 7/8" PNT

A900

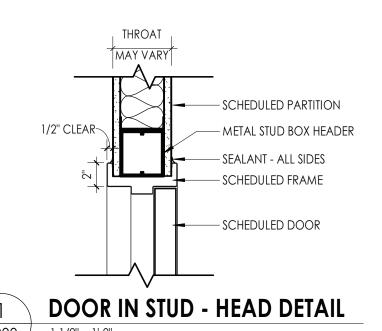
NOTE: DOOR 501 TO RECEIVE A NEW ALUMINUM COVER PLATE AT THE SILL - REFER TO HARDWARE SPEC

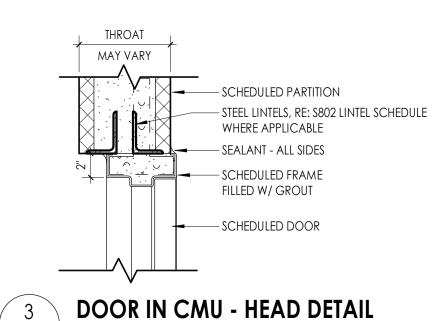
PNL-F-WD 3'-0"

PNL-F-WD 3'-0"

219 GIRLS

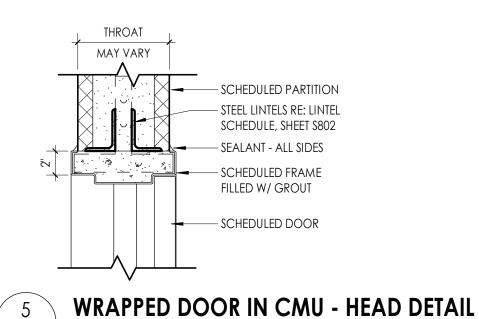
220 BOYS

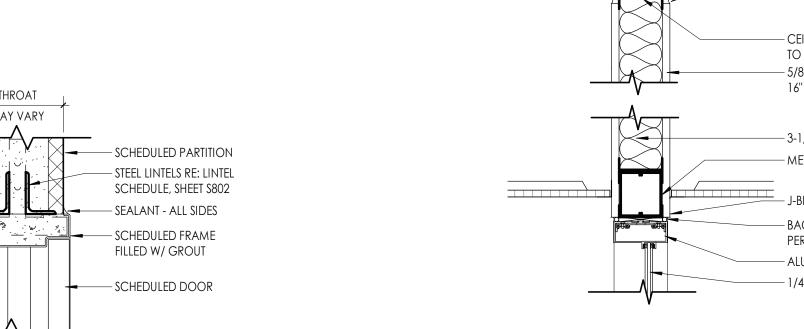




5/A900 6/A900 OFCI - DOOR, HW AND HC OPERATOR. PROVIDE NEW FRAME AS SCHEDULED

5/A900 6/A900 OFCI - DOOR, HW AND HC OPERATOR. PROVIDE NEW FRAME AS SCHEDULED





SIGNAGE SCHEDULE

RESOURCE ROOM 202A 202A

MAIN OFFICE 400

MAIN OFFICE 400

MAIN OFFICE 400

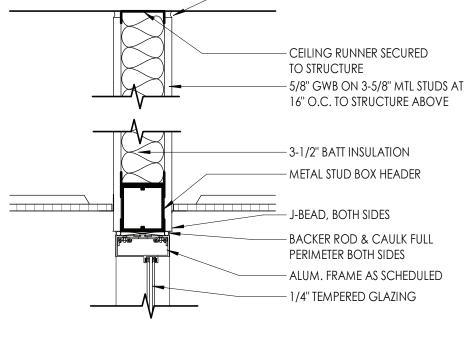
MAIN OFFICE 400

ROOM NAME/NUMBER | DOOR NUMBER | "TEXT"

102B

400

400C



"ROOM 202A"

"MAIN OFFICE"

"MAIN OFFICE"

"OFFICE 400B"

"OFFICE 400C"

TYPE COMMENTS

A REFER TO PLAN FOR LOCATION

EXISTING MASONRY WALL CONSTRUCTION TO REMAIN

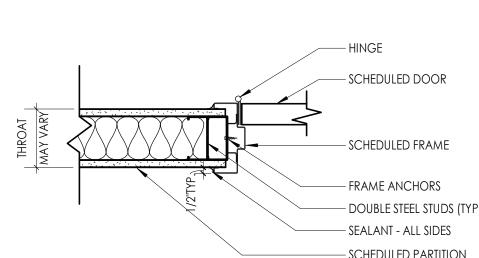
— BACKER ROD & CAULK, FULL PERIMETER BOTH SIDES ALUM. FRAME AS SCHEDULED

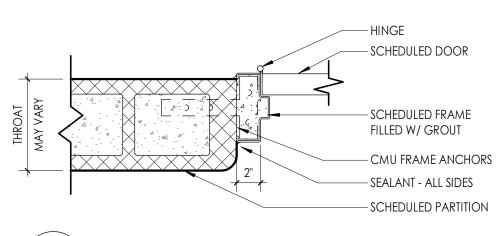
SCHEDULED DOOR —

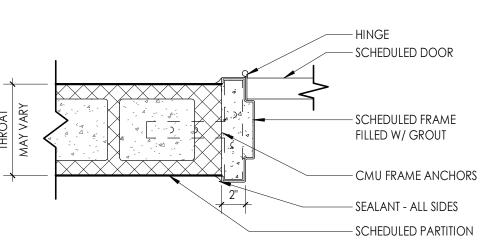
— 1/4" TEMPERED GLAZING

– ACOUSTICAL SEALANT



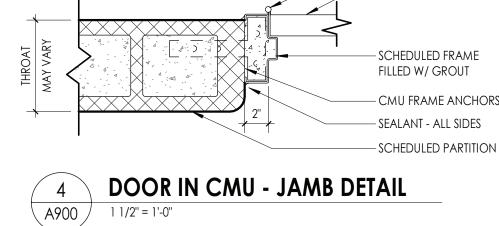


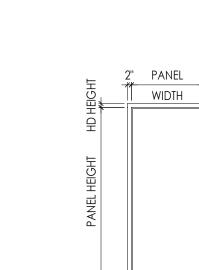




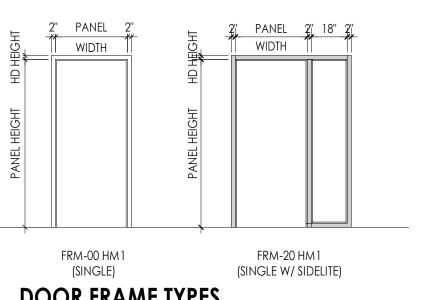


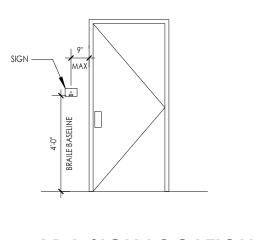


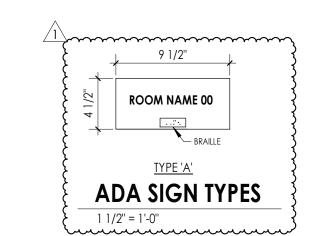


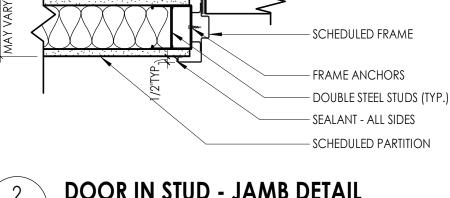


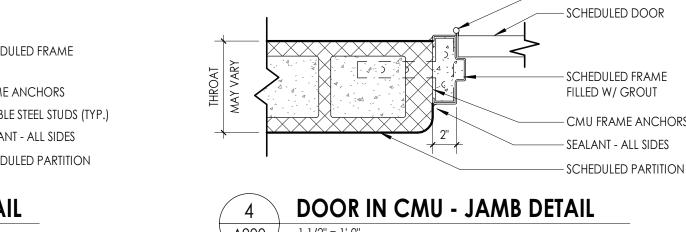
A900 /

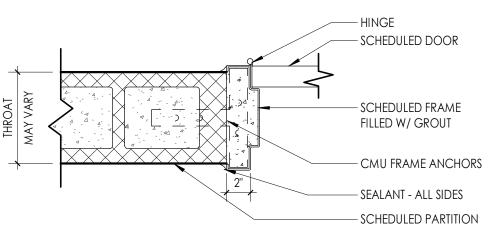














DOOR AND FRAME NOTES

- 1. ALL FRAMES ARE TO RECEIVE FULL PERIMETER SEALANT. INTERIOR AND EXTERIOR 2. ALL DOOR AND WINDOW OPENING DIMENSIONS ARE TO BE VERIFIED IN FIELD AND COORDINATED WITH APPROVED SHOP DRAWINGS PRIOR TO FABRICATION. 3. SEE SCHEDULE FOR DOOR & FRAME MATERIAL

DOOR AND FRAME SCHEDULE LEGEND NOTE: THIS LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN THIS PROJECT.

DOOR OR FRAME MATERIAL DOOR OR FRAME FINISH

ACR ACROVYN DOOR PTD PAINT **WOOD STAIN** ACR-L ACROVYN LEAD LINED DOOR ALUM ALUMINUM DB DARK BRONZE(ANODIZED) HM HOLLOW METAL STAINLESS STEEL

HM-L HOLLOW METAL LEAD LINED BE BAKED ENAMEL IHM INSULATED HOLLOW METAL MFR MANUFACTURER WD WOOD

WD-L WOOD LEAD LINED

GLAZING TYPES

G1 - INSULATED GLAZING G2 - FIRE RATED GLAZING G3 - TEMPERED GLAZING

NOTE: NEW FRAMES TO BE PAINTED TO MATCH EXISTING ADJACENT.





PROJECT INFORMATION

14457.20

Client Name SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

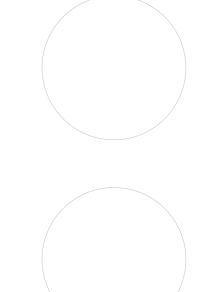
District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032] WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020 COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 ■ WOS OUTDOOR CLASSROOM SED#:50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#:50-03-01-06-7-056-001 CLE OUTDOOR CLASSROOM SED#:50-03-01-06-7-054-001 ☐ TZHS OUTDOOR CLASSROOM SED#:50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/23 BID ADDENDUM #4

PROFESSIONAL STAMPS

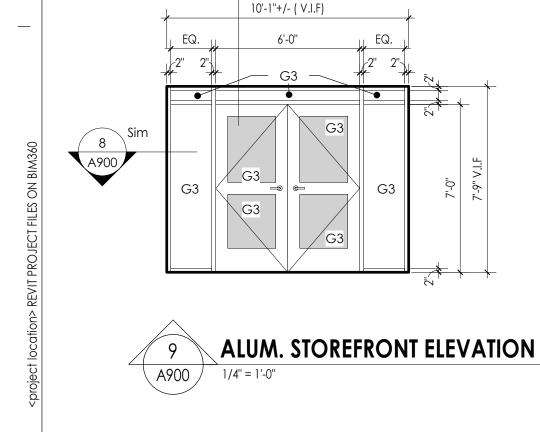


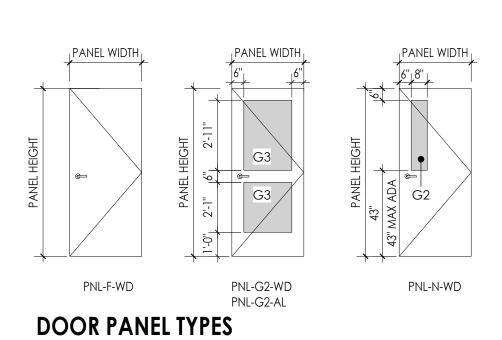
SHEET INFORMATION

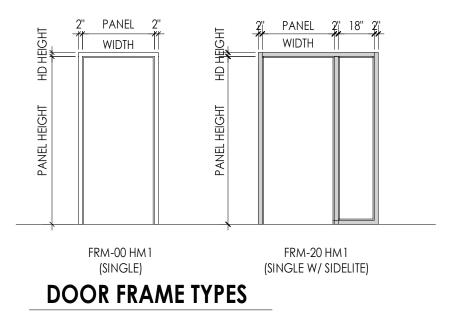
Issued 10/18/23 As indicated Project Status BID DOCUMENTS

Drawing Title DOOR TYPES & SCHEDULES

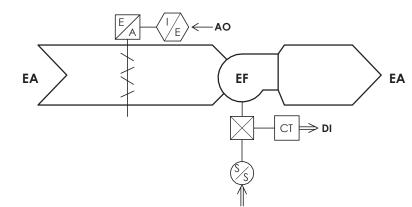
A900







ADA SIGN LOCATION



A. <u>RELIEF FANS:</u>

1. OCCUPIED MODE:

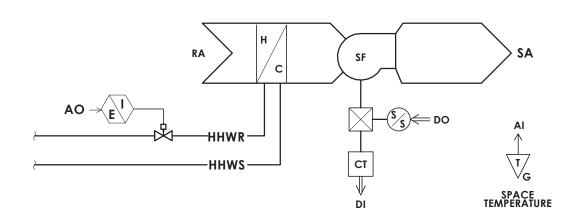
- a. ENABLE FAN AND OPEN DAMPER WHEN ASSOCIATED UNIT VENTILATOR IS ON
- b. ENABLE FAN AT MINIMUM SCHEDULED AIRFLOW UNLESS ANY OF THE ASSOCIATED UNIT VENTILATORS ARE IN ECONOMIZER MODE.
- c. WHEN THE ASSOCIATED UNIT VENTILATORS ARE IN ECONOMIZER MODE, MODULATE FAN BEYOND IT'S MINIMUM SCHEDULED AIR FLOW BASED ON THE AVERAGE OUTDOOR AIR DAMPER POSITION OF THE ASSOCIATED UNITS.
- 1) UN-OCCUPIED MODE: a. DISABLE FAN, CLOSE DAMPER.

2) ALARMS

FAN FAILS TO RUN AFTER 30 SECONDS OF BEING COMMANDED ON.

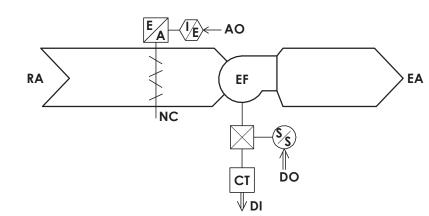
b. FAN FAILS TO STOP AFTER 30 SECONDS OF BEING COMMANDED OFF.

RELIEF FAN CONTROLS



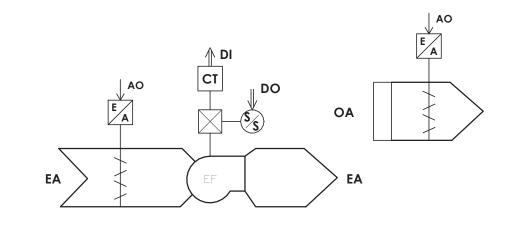
- A. <u>HYDRONIC UNIT HEATERS:</u> 1. MODULATE THE CONTROL VALVE AS NECESSARY TO
- MAINTAIN SPACE TEMPERATURE HEATING SET POINT. ALARMS
- a. SPACE TEMPERATURE HIGH/LOW LIMITS.

UNIT HEATER CONTROLS SCHEMATIC ∖H500 /



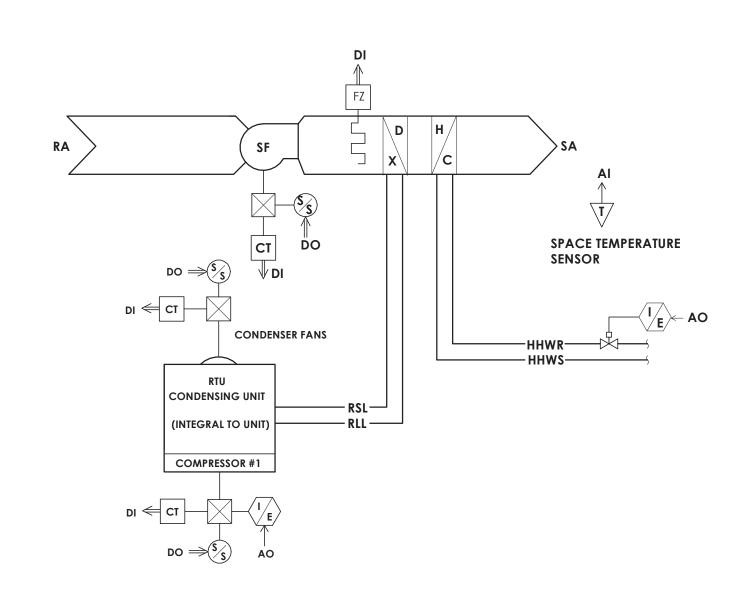
- A. <u>EXHAUST FANS:</u>
 - a. OCCUPIED MODE: OPEN DAMPER AND ENABLE FAN AFTER 15-SECOND DELAY. b. UNOCCUPIED MODE: DISABLE FAN AND MODULATE DAMPER TO FULL CLOSED POSITION AFTER 15-SECOND DELAY.
- a. FAN FAILS TO RUN AFTER 30 SECONDS OF BEING COMMANDED ON b. FAN FAILS TO STOP AFTER 30 SECONDS OF BEING COMMANDED OFF.

TOILET EXHAUST CONTROLS DIAGRAM



- a. OCCUPIED MODE: OPEN DAMPER AND ENABLE FAN AFTER 15-SECOND DELAY. b. UNOCCUPIED MODE: DISABLE FAN AND MODULATE DAMPER TO FULL CLOSED POSITION AFTER
- a. FAN FAILS TO RUN AFTER 30 SECONDS OF BEING COMMANDED ON. b. FAN FAILS TO STOP AFTER 30 SECONDS OF BEING COMMANDED OFF

HOOD EXHAUST FAN CONTROLS DIAGRAM EF-1



ASSIGN EACH FAN COIL UNIT A STAGGER START NUMBER TO KEEP TOO MANY UNITS FROM STARTING AT THE SAME TIME. IN EFFECT, THIS FLATTENS LOAD

2. WARM-UP MODE CONTROL: a. OPTIMUM START DURATION SHALL BE DETERMINED BASED ON OUTSIDE AIR

TEMPERATURE. b. DURING THE OPTIMUM START PERIOD, THE HEATING SET-POINT WILL BE LINEARLY RAMPED UP FROM UNOCCUPIED HEATING SET-POINT TO OCCUPIED HEATING SET-POINT.

C. WHEN THE HEATING SET-POINT CROSSES ABOVE THE SPACE TEMPERATURE, THE SUPPLY FAN WILL BE COMMANDED ON, THE MIXING DAMPERS SHALL REMAIN IN THE FULL RETURN AIR POSITION AND THE

HEATING VALVE WILL MODULATE TO MAINTAIN HEATING SET-POINT. 3. COOL-DOWN MODE CONTROL: a. OPTIMUM START DURATION SHALL BE DETERMINED BASED ON OUTSIDE AIR

LINEARLY RAMPED DOWN FROM UNOCCUPIED COOLING SET-POINT TO OCCUPIED COOLING SET-POINT. c. WHEN THE COOLING SET-POINT CROSSES BELOW THE SPACE TEMPERATURE, THE SUPPLY FAN WILL BE COMMANDED ON, THE MIXING DAMPERS SHALL MODULATE TO THE FULL RETURN AIR POSITION AND THE

b. DURING THE OPTIMUM START PERIOD, THE COOLING SET-POINT WILL BE

CONDENSING UNIT SHALL MODULATE TO MAINTAIN THE SPACE COOLING 4. OCCUPIED MODE:

a. SUPPLY FAN: 1) ENABLE CONTINUOUSLY

TEMPERATURE.

b. MIXED AIR DAMPER: 1) OPEN TO MAINTAIN OUTSIDE AIR QUANTITY AS SCHEDULED, OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM **EXCEPT IN CASE OF EMERGENCY**

c. OCCUPIED HEATING MODE (OAT IS ABOVE 55°F AND SPACE TEMPERATURE BELOW SET POINT) 1) MODULATE HHW COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE SET POINT AND MINIMUM DISCHARGE AIR SET POINT. a) MINIMUM LEAVING AIR TEMPERATURE RESET SCHEDULE: 65 DEGREE LAT AT 0 DEGREE OAT. 55 DEGREE LAT AT 55 DEGREE OAT

2) MODULATE THE CONDENSING UNIT TO THE OFF POSITION. d. OCCUPIED COOLING MODE (OAT IS ABOVE 60°F AND SPACE TEMPERATURE IS ABOVE SET POINT) 1) MODULATE THE HHW COIL CONTROL VALVE TO THE FULL CLOSED

2) MODULATE THE CONDENSING UNIT TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. 5. UNOCCUPIED MODE: a. SUPPLY FAN:

START (2°F BELOW HEATING SET POINT) AND STOP (1°F ABOVE HEATING SET POINT) TO MAINTAIN SPACE TEMPERATURE SET POINT. b. MIXED AIR DAMPER:

FULLY RETURN AIR POSITION. c. HOT WATER COIL CONTROL VALVE:

SAME AS OCCUPIED MODE. d. CONDENSING UNIT MODULATE TO FULL CLOSED POSITION UNLESS NIGHT COOLING IS REQUIRED. WHEN NIGHT COOLING IS REQUIRED

6. ALARMS - PROVIDE AN ALARM FOR EACH OF THE FOLLOWING: g. FAN FAILS TO RUN AFTER 30 SECONDS OF BEING COMMANDED ON

MODULATE TO MAINTAIN SPACE TEMPERATURE SET POINT.

b. FAN FAILS TO STOP AFTER 30 SECONDS OF BEING COMMANDED OF c. SOFTWARE SAFETY TRIP.

d. SOFTWARE SAFETY LOCKOUT (4 SAFETY TRIPS IN 3 HOURS). e. LOW OR HIGH DISCHARGE AIR TEMPERATURES.

f. LOW OR HIGH SPACE TEMPS.

FAN COIL TYPICAL CONTROLS DIAGRAM

ASSOCIATED EQUIPMENT IS FIN-TUBE RADIATION WHERE INDICATED ON PLANS. UNIT VENTILATOR SHALL OPERATE IN OCCUPIED/UNOCCUPIED MODES AS DETERMINED BY THE DDC BUILDING TIME CLOCK SYSTEM AND BY OCCUPANCY SENSOR.

ASSIGN EACH UNIT VENTILATOR A STAGGER START NUMBER TO KEEP TOO MANY UNITS FROM STARTING AT THE SAME TIME. IN EFFECT, THIS FLATTENS LOAD PEAKS.

OCCUPIED HEATING SET-POINT, UNOCCUPIED HEATING SET-POINT, UNOCCUPIED COOLING SET-POINT AND PURGE ENABLE/DISABLE SHALL BE GLOBAL AND FULLY ADJUSTABLE FROM ANY INTERFACE. OUTSIDE AIR IS ADMITTED TO MEET VENTILATION AND COOLING REQUIREMENTS AS OUTLINED IN THE INDIVIDUAL UNIT SEQUENCES. MECHANICAL COOLING, IF EQUIPPED IS UTILIZED AS OUTLINED IN THE INDIVIDUAL UNIT SEQUENCES.

EACH UNIT VENTILATOR SHALL HAVE A SOFTWARE HOA FOR CONTROL OF THE SUPPLY FAN. WIRE THE SUPPLY FAN NORMALLY OPEN AT THE CONTROL RELAY AND FAIL OFF.

CONTROL CYCLE TO FOLLOW ASHRAE CYCLE II STANDARD. OCCUPIED ECONOMIZER COOLING MODE - WHEN THERE IS CALL FOR COOLING AND THE OUTDOOR AIR TEMPERATURE IS BELOW THE SPACE TEMPERATURE.

a. ECONOMIZER COOLING SET POINT: 74°F.

 FULLY OPEN RECIRCULATION DAMPER C. IF THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT OF 75 DEGREES F (ADJUSTABLE), AND THE CONTROLS INDICATES THAT ECONOMIZER OPERATION IS NOT APPROPRIATE, THE OUTSIDE AIR DAMPERS WILL MODULATE CLOSE TO MINIMUM POSITION AND THE COOLING CONTROL VALVE WILL MODULATE.

d. ECONOMIZER OPERATION SHALL USE AN ALGORITHM COMPARING INDOOR AIR AND OUTDOOR AIR ENTHALPY TO DETERMINE IF COOLING OR ASSISTED COOLING IS VIABLE. COOLING AND ECONOMIZER COOLING WILL BE ALLOWED TO OPERATE SIMULTANEOUSLY IF THE ALGORITHM CONFIRMS ASSISTED COOLING IS VIABLE. e. THE CONTROLS WILL MONITOR FAN STATUS AND GENERATE AN ALARM WHENEVER THE FAN IS COMMANDED ON BUT THE STATUS INDICATES OFF. ALARMS WILL ALSO BE GENERATED IF A FREEZE CONDITION EXISTS OR IF A LOW SPACE TEMPERATURE IS DETECTED.

a. PURGE MODE (FRESH AIR CHANGEOVER) SHALL ONLY BE PERMITTED DURING AN UNOCCUPIED PERIOD.

b. IF THE OUTSIDE AIR IS BETWEEN 45°F AND 60°F AND THE SPACE TEMPERATURE RISES ABOVE 75°F, THE SUPPLY FAN SHALL BE COMMANDED ON, THE MIXING DAMPERS SHALL BE FULLY OPEN, THE HEATING COIL SHALL BE FULLY CLOSED AND THE INTEGRAL RELIEF FAN OR ASSOCIATED EXHAUST FAN SHALL BE ENABLED AT THE MAXIMUM AIRFLOW. WHEN THE SPACE TEMPERATURE DROPS TO 70°F, THE FANS SHALL BE COMMANDED OFF AND THE MIXING DAMPERS SHALL RETURN TO THE NORMAL POSITION. 11. WARM-UP MODE CONTROL

a. OPTIMUM START DURATION SHALL BE DETERMINED BASED ON OUTSIDE AIR TEMPERATURE

b. DURING THE OPTIMUM START PERIOD, THE HEATING SET-POINT WILL BE LINEARLY RAMPED UP FROM UNOCCUPIED HEATING SET-POINT TO OCCUPIED HEATING SET-POINT. C. WHEN THE HEATING SET-POINT CROSSES ABOVE THE SPACE TEMPERATURE, THE SUPPLY FAN WILL BE COMMANDED ON, THE MIXING DAMPERS SHALL REMAIN CLOSED AND THE HEATING VALVE WILL MODULATE TO MAINTAIN

12. COOL-DOWN MODE CONTROL

g. OPTIMUM START DURATION SHALL BE DETERMINED BASED ON OUTSIDE AIR TEMPERATURE. DURING THE OPTIMUM START PERIOD, THE COOLING SET-POINT WILL BE LINEARLY RAMPED DOWN FROM UNOCCUPIED COOLING SET-POINT TO OCCUPIED COOLING SET-POINT. WHEN THE COOLING SET-POINT CROSSES BELOW THE SPACE TEMPERATURE, THE SUPPLY FAN WILL BE COMMANDED ON, THE MIXING DAMPERS SHALL MODULATE TO MAINTAIN COOLING SET-POINT.

a) ENABLE CONTINUOUSLY

a) OPEN TO MAINTAIN OUTSIDE AIR QUANTITY AS SCHEDULED, OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM EXCEPT IN CASE OF EMERGENCY b) MODULATE OUTSIDE AIR DAMPER BEYOND SCHEDULED MINIMUM POSITION AS FOLLOWS:

MAINTAIN VENTILATION COOLING TEMPERATURE SET POINT. 3) HOT WATER COIL CONTROL VALVE:

a) LAT SCHEDULE UTILIZE DISCHARGE AIR MINIMUM TEMPERATURE RESET SCHEDULE AS OUTLINED BELOW.

55°F LAT AT 55°F OAT 65°F LAT AT 0°F OAT

UTILIZE DISCHARGE AIR TEMPERATURE PID LOOP TO MAINTAIN SPACE TEMPERATURE SET POINT AND MINIMUM LAT.

b) OUTSIDE AIR TEMPERATURE DROPS BELOW 35 DEGREES: MODULATE FULL OPEN. (VALVE SHALL STAY FULL OPEN UNTIL O.A. RISES ABOVE 38 DEGREES).

c) OUTSIDE AIR TEMPERATURE ABOVE 38 DEGREES: MODULATE TO MAINTAIN SPACE TEMPERATURE SET POINT. MODULATE TO MAINTAIN 65 DEGREE MINIMUM DISCHARGE AIR TEMPERATURE DURING HEATING MODE

MODULATE TO MAINTAIN SPACE TEMPERATURE SET POINT. MODULATE TO MAINTAIN 65 DEGREE MINIMUM DISCHARGE AIR TEMPERATURE

MODULATE UNTIL O.A. RISES ABOVE 38 DEGREES. b) OUTSIDE AIR TEMPERATURE ABOVE 38 DEGREES:

POSITION TO FULL COIL FACE POSITION. 5) RA DAMPER a) MODULATE WITH OUTSIDE AIR DAMPER TO MAINTAIN THE FOLLOWING BALANCE: RA CFM = SA CFM - OA CFM.

6) COOLING COIL (AS INDICATED ON THE DRAWINGS): a) MODULATE TO MAINTAIN SPACE TEMPERATURE SET POINT.

14. UNOCCUPIED MODE BY OCCUPANCY SENSOR DURING DDC SCHEDULED OCCUPIED PERIOD a. DURING THE SCHEDULED OCCUPIED MODE, WHEN THE SPACE IS UNOCCUPIED AS SENSED BY THE ROOM OCCUPANCY SENSOR, THE DAMPER WILL BE CLOSED TO OUTSIDE AIR. b. IN HEATING MODE, THE SPACE TEMPERATURE SET-POINT SHALL BE RESET TO 2°F (ADJUSTABLE) LOWER THAN THE OCCUPIED SET-POINT. IN COOLING MODE, THE SPACE TEMPERATURE SET-POINT SHALL BE RESET TO 2°F (ADJUSTABLE)

C. THE SUPPLY FAN SHALL CYCLE ON AND OFF TO MAINTAIN THE SPACE TEMPERATURE SET-POINT. IN HEATING MODE, THE FINNED-TUBE CONTROL VALVE SHALL CONTINUE TO MODULATE TO MAINTAIN THE SPACE TEMPERATURE SET POINT. IF THE SPACE TEMPERATURE DROPS 1°F BELOW IN THE RESET HEATING SET-POINT, THE SUPPLY FAN SHALL BE COMMANDED ON, THE MIXING DAMPER SHALL REMAIN CLOSED AND THE HEATING VALVE SHALL MODULATE OPEN. WHEN THE SPACE TEMPERATURE RISES 1°F ABOVE THE RESET HEATING SET-POINT, THE SUPPLY FAN SHALL BE COMMANDED OFF. IN COOLING MODE, IF THE SPACE TEMPERATURE RISES 1°F ABOVE IN THE RESET COOLING SET-POINT, THE SUPPLY FAN SHALL BE COMMANDED ON, THE MIXING DAMPER SHALL REMAIN CLOSED AND THE COOLING VALVE SHALL MODULATE OPEN. WHEN THE SPACE TEMPERATURE DROPS 1°F BELOW THE RESET COOLING SET-POINT, THE SUPPLY FAN SHALL BE COMMANDED OFF

d. WHEN THE SPACE IS OCCUPIED AS SENSED BY THE ROOM OCCUPANCY SENSOR, THE SEQUENCE SHALL BE INDEXED TO THE OCCUPIED MODE. 15. UNOCCUPIED MODE BY DDC SCHEDULE: a. UNIT VENTILATORS

START (2°F BELOW HEATING SET POINT) AND STOP (1°F ABOVE HEATING SET POINT) TO MAINTAIN SPACE TEMPERATURE SET POINT. 2) OUTSIDE AIR DAMPER:

3) HOT WATER COIL CONTROL VALVE: SAME AS OCCUPIED MODE.

4) COIL FACE AND BY-PASS DAMPER: SAME AS OCCUPIED MODE. 5) RA DAMPER:

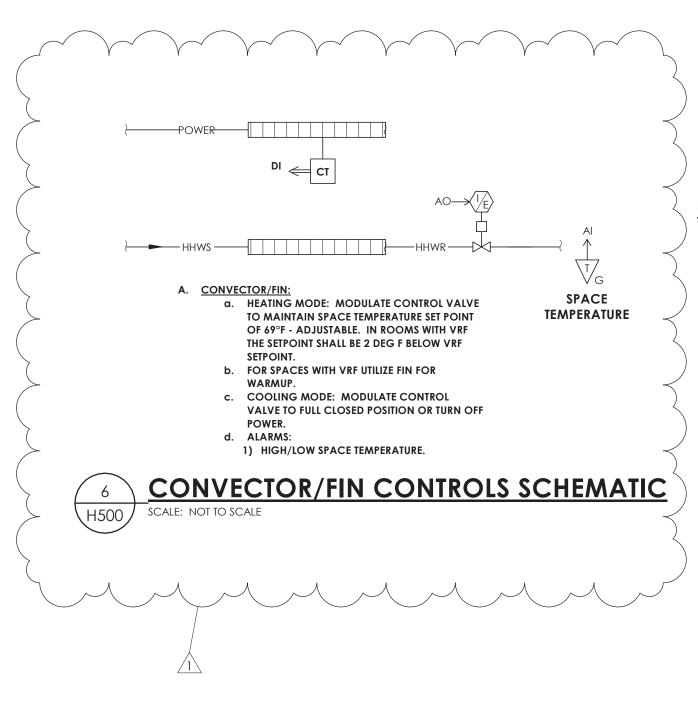
FULLY CLOSED.

FULLY OPEN

6) COOLING CONTROL MODULATE TO FULL CLOSED POSITION UNLESS NIGHT COOLING IS REQUIRED. WHEN NIGHT COOLING IS REQUIRED, MODULATE TO MAINTAIN SPACE TEMPERATURE SET POINT 16. ALARMS - PROVIDE AN ALARM FOR EACH OF THE FOLLOWING: a. FAN FAILS TO RUN AFTER 30 SECONDS OF BEING COMMANDED ON.

b. FAN FAILS TO STOP AFTER 30 SECONDS OF BEING COMMANDED OFF. c. SOFTWARE SAFETY TRIP.

d. SOFTWARE SAFETY LOCKOUT (4 SAFETY TRIPS IN 3 HOURS). e. LOW OR HIGH DISCHARGE AIR TEMPERATURES. 1) IF THE DISCHARGE AIR TEMPERATURE FALLS BELOW 40°F (ADJUSTABLE) IN HEATING MODE, OPEN THE HEATING HOT WATER CONTROL VALVE, CLOSE THE OUTDOOR AIR DAMPER AND TURN OFF ALL FANS. f. LOW OR HIGH SPACE TEMPERATURES.



A. SPLIT SYSTEM AIR CONDITIONING UNITS:

a. ENABLE SPLIT SYSTEM

a. EQUIPMENT FAILURE

b. HIGH/LOW SPACE TEMP.

PROVIDE BMS CONTROL OF SPACE

TEMPERATURE SET POINTS,

b. MODULATE TO MAINTAIN SPACE

c. HIGH WATER LEVEL IN DRAIN PAN

COORDINATE WITH VRF MANUFACTURER TO

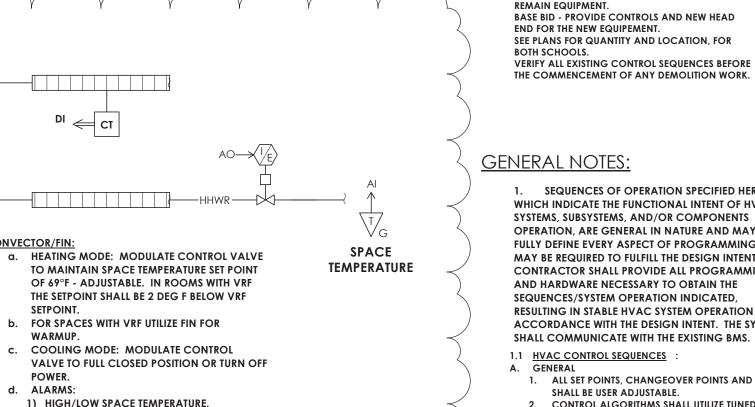
OCCUPIED/UNOCCUPIED MODES, HEATING

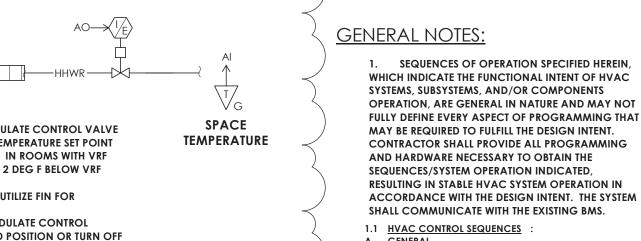
COOLING MODES AND LOAD DEMAND.

TEMPERATURE SET POINT.

COOLING MODE

2. ALARMS





1. ALL SET POINTS, CHANGEOVER POINTS AND RESET SCHEDULES SHALL BE USER ADJUSTABLE. 2. CONTROL ALGORITHMS SHALL UTILIZE TUNED PID LOOPS TO

ALTERNATE MC-01 - PROVIDE NEW FULL BUILDING CONTROLS AND ALL ASSOCIATED COMPONENTS TO HAVE A NEW HEAD END AND FULLY OPERATIONAL SYSTEM. PROVIDE CONTROLS TO ALL EXISTING TO

MAINTAIN SET POINTS AND MINIMUM/MAXIMUM LEAVING AIR TEMPERATURES OPTIMALLY 3. COORDINATE INDIVIDUAL ALARM NOTIFICATIONS WITH OWNER. 4. ALARMS SHALL BE CONFIGURED AS STATUS ONLY OR CRITICAL. STATUS ONLY ALARMS SHALL DISPLAY ALARM ON

THE OWNER COORDINATED WORKSTATION(S) AND

DEVICE(S). CRITICAL ALARMS SHALL INCORPORATE

COORDINATED UNIT SHUTDOWN ALONG WITH DISPLAYING ALARMS ON THE OWNER COORDINATED DEVICES AND REQUIRE THE ALARM TO BE CLEARED PRIOR TO RESTARTING THE EQUIPMENT. ALL HVAC EQUIPMENT SHALL OPERATE IN OCCUPIED/UNOCCUPIED MODES AS DETERMINED BY THE

DDC BUILDING TIME CLOCK SYSTEM. OBTAIN THE BUILDING OCCUPANCY SCHEDULE FROM THE OWNER. 6. ALL EQUIPMENT SHALL UTILIZE OPTIMUM START/STOP PROGRAMS. 7. ASSIGN ALL EQUIPMENT A STAGGER START NUMBER TO KEEP

TO MANY UNITS FROM STARTING AT THE SAME TIME. IN EFFECT, THIS FLATTENS LOAD PEAKS. THIS INCLUDES START-UP ON EMERGENCY POWER. 8. UNOCCUPIED OVERRIDE BUTTONS SHALL PLACE THE SPACE

EQUIPMENT IN OCCUPIED MODE FOR A PERIOD OF ONE-HOUR (ADJUSTABLE). 9. COORDINATE CHILLED WATER VALVE AND CHILLED WATER

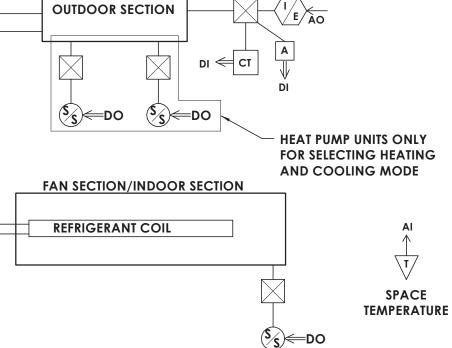
PUMP RESPONSE TIME WITH THE CHILLER MANUFACTURER'S MAXIMUM RATE OF CHANGE IN CHILLED WATER FLOW. B. UNIVERSAL SET POINTS. UNLESS OTHERWISE NOTED, USE THE FOLLOWING SPACE TEMPERATURE SET POINTS. SET POINTS SHALL BE INDEPENDENTLY ADJUSTABLE BY SPACE THROUGH THE BMS. OCCUPIED MODES UNOCCUPIED MODES

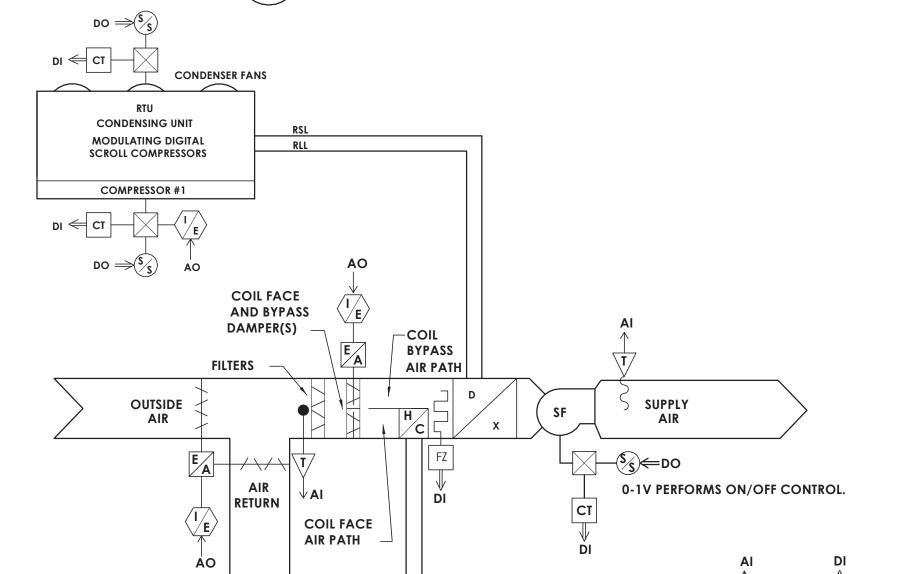
COOLING HEATING COOLING HEATING OCCUPIED SPACES 74°F 69°F 85°F 55°F 85°F 55°F UNOCCUPIED SPACES 80°F 60°F

SPACE

TEMPERATURE OVERRIDE

UNOCCUPIED





SPLIT SYSTEMS

H500







Newburgh, NY 12550

CPLteam.com

PROJECT INFORMATION

14457.20

Client Name SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

160 VAN WYCK RD. BLAUVELT, NY 10913

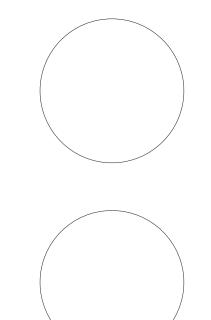
SOUTH ORANGETOWN CSD WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 OTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032 WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020 COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001 CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

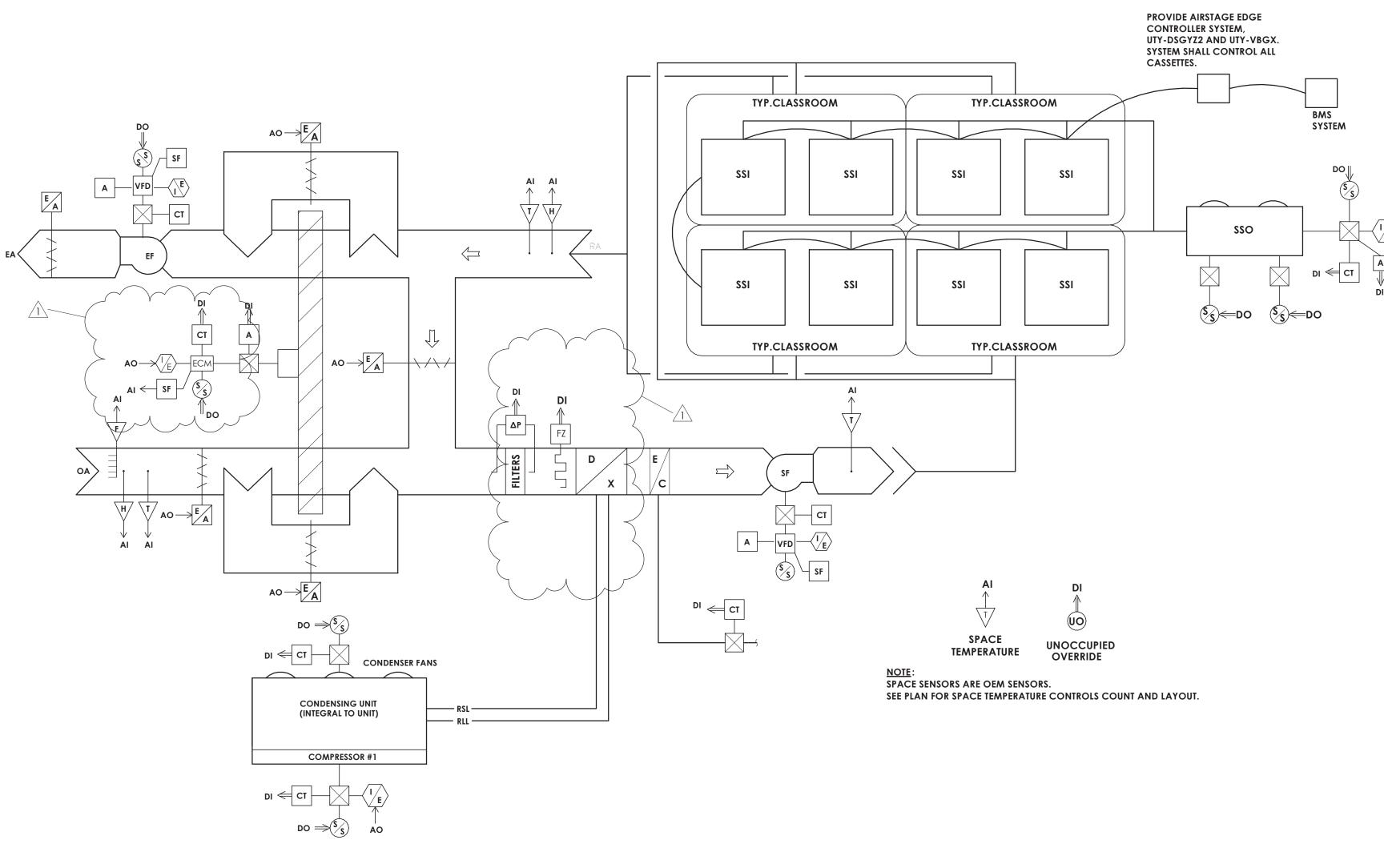
PROFESSIONAL STAMPS



SHEET INFORMATION Issued

10/18/2023 12" = 1'-0" Project Status BID DOCUMENTS Drawn By KCM

Drawing Title MECHANICAL CONTROLS



ROOFTOP DEDICATED OUTSIDE AIR SYSTEMS (DOAS) - ENERGY RECOVERY UNITS:

A. THE BMS WILL START THE UNIT SUPPLY AND RELIEF/EXHAUST FANS BASED ON A TIME-OF-DAY SCHEDULE. THE FANS WILL BE ENERGIZED CONTINUOUSLY WHENEVER THE ZONE IS SCHEDULED TO BE OCCUPIED. THE OUTSIDE AIR DAMPERS SHALL OPEN FULLY TO PROVIDE THE MINIMUM REQUIRED OUTSIDE AIR TO MEET THE VOLUMETRIC FLOW RATES INDICATED ON THE VENTILATION SCHEDULE. THE RELIEF AIR VENTILATOR DAMPER SHALL INDEX OPEN TO MATCH THE POSITION OF THE OUTSIDE AIR DAMPER TO EQUALIZE THE VOLUME OF RELIEF AIR WITH THE VOLUME OF OUTSIDE AIR. THE BMS WILL MONITOR THE DISCHARGE AIR TEMPERATURE.

B. THE INTEGRAL AIR-COOLED HEAT PUMP WILL OPERATE HEATING AND COOLING OPERATION TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.

C. THE SUPPLEMENTAL HEATING COIL WILL REMAIN OFF DURING NORMAL UNIT

D. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 10 DEG. F, THE HEAT PUMP WILL BE DISABLED, AND THE ELECTRIC COIL SHALL MAINTAIN THE DOWNSTREAM SUPPLY AIR

E. IF THE CONNECTED SPACES ARE CALLING FOR COOLING, AND THE BMS INDICATES THAT ECONOMIZER OPERATION IS APPROPRIATE, THE BYPASS DAMPERS WILL MODULATE OPEN TO MAINTAIN THE DISCHARGE AIR TEMPERATUE SETPOINT. THE ELECTRIC COIL WILL BE OFF. THE OUTSIDE AIR DAMPER WILL BE RESTRICTED TO LIMIT THE MINIMUM DISCHARGE AIR TEMPERATURE TO A SETPOINT OF 55 DEGREES F (ADJUSTABLE) WHILE THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT.

F. IF THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT OF 74 DEGREES F (ADJUSTABLE), AND THE BMS INDICATES THAT ECONOMIZER OPERATION IS NOT APPROPRIATE, THE OUTSIDE AIR DAMPERS WILL MODULATE CLOSE TO MINIMUM POSITION AND COOLING WILL BE ENABLED.

G. ECONOMIZER OPERATION SHALL USE AN ALGORITHM COMPARING INDOOR AIR AND OUTDOOR AIR ENTHALPY TO DETERMINE IF COOLING OR ASSISTED COOLING IS VIABLE. DX COOLING AND ECONOMIZER COOLING WILL BE ALLOWED TO OPERATE SIMULTANEOUSLY IF THE ALGORITHM CONFIRMS ASSISTED COOLING IS VIABLE.

H. ENERGY RECOVERY WHEEL CONTROL 1) THE ENERGY RECOVERY WHEEL MOTOR WILL BE ENABLED WHENEVER THE SUPPLY

AND RETURN/EXHAUST FANS ARE ENABLED EXCEPT AS NOTED HERE: (A) THE ENERGY RECOVERY WHEEL MOTOR SHALL BE DISABLED WHEN THE BMS DETERMINES THAT IT IS BENEFICIAL TO USE ADDITIONAL OUTSIDE AIR FOR COOLING (ECONOMIZER

(B) THE ENERGY RECOVERY WHEEL MOTOR SHALL BE DISABLED FOR TWO MINUTES OUT OF EACH 30 MINUTE PERIOD WHEN THE OUTDOOR AIR TEMPERATURE IS AT OR BELOW ZERO DEGREES F

I. THE BMS WILL MONITOR FAN STATUS AND GENERATE AN ALARM WHENEVER THE FAN IS COMMANDED ON BUT THE STATUS INDICATES OFF. ALARMS WILL ALSO BE GENERATED IF A FREEZE CONDITION EXISTS OR IF A LOW DISCHARGE AIR TEMPERATURE IS DETECTED.

A. WHEN THE ZONE IS SCHEDULED TO BE UNOCCUPIED, THE FANS WILL BE DISABLED, AND THE OUTSIDE AIR DAMPER WILL BE CLOSED.

3. ALARMS

1) IF STATUS OF A FAN, WHICH HAS BEEN CALLED BY THE BMS SYSTEM TO START, HAS NOT BEEN VERIFIED AS RUNNING WITHIN A PERIOD OF 10 SECONDS (ADJ.), AN ALARM SHALL BE SENT TO THE OPERATOR'S WORKSTATION. THE FAN SHALL BE IDENTIFIED BY A DESCRIPTION OF WHAT IT SERVES, AND SHALL BE TAGGED AS A "FAN FAILURE". B. LOW LIMIT THERMOSTAT

1) IF THE AIR LEAVING THE HOT WATER COIL DROPS BELOW 38 DEGREES F (ADJ.) THE SUPPLY FAN SHALL BE STOPPED VIA HARD WIRE INTERLOCK AND THE BMS SYSTEM SHALL BE ALERTED BY A SET OF DRY CONTACTS PROVIDED BY THE LOW LIMIT THERMOSTAT. AN ALARM SHALL BE SENT TO THE OPERATOR'S WORKSTATION. THE UNIT SHALL BE IDENTIFIED BY ITS CALL NUMBER AND SHALL BE TAGGED AS A "LOW LIMIT THERMOSTAT ALARM". THE UNIT MUST BE MANUALLY RESET BEFORE IT CAN BE RESTARTED.

SPACE TEMPERATURE

SENSOR

ALTERNATE MC-01 - PROVIDE NEW FULL BUILDING CONTROLS AND ALL ASSOCIATED COMPONENTS TO HAVE A NEW HEAD END AND FULLY OPERATIONAL SYSTEM. PROVIDE CONTROLS TO ALL EXISTING TO REMAIN EQUIPMENT BASE BID - PROVIDE CONTROLS AND NEW HEAD END FOR THE NEW EQUIPEMENT.

SEE PLANS FOR QUANTITY AND LOCATION, FOR BOTH SCHOOLS. VERIFY ALL EXISTING CONTROL SEQUENCES BEFORE THE COMMENCEMENT OF ANY DEMOLITION WORK.

GENERAL NOTES:

1. SEQUENCES OF OPERATION SPECIFIED HEREIN, WHICH INDICATE THE FUNCTIONAL INTENT OF HVAC SYSTEMS, SUBSYSTEMS, AND/OR COMPONENTS OPERATION, ARE GENERAL IN NATURE AND MAY NOT FULLY DEFINE EVERY ASPECT OF PROGRAMMING THAT MAY BE REQUIRED TO FULFILL THE DESIGN INTENT. CONTRACTOR SHALL PROVIDE ALL PROGRAMMING AND HARDWARE NECESSARY TO OBTAIN THE SEQUENCES/SYSTEM OPERATION INDICATED, RESULTING IN STABLE HVAC SYSTEM OPERATION IN ACCORDANCE WITH THE DESIGN INTENT. THE SYSTEM SHALL COMMUNICATE WITH THE EXISTING BMS. 1.1 HVAC CONTROL SEQUENCES

1. ALL SET POINTS, CHANGEOVER POINTS AND RESET SCHEDULES

AIR TEMPERATURES OPTIMALLY.

SHALL BE USER ADJUSTABLE. 2. CONTROL ALGORITHMS SHALL UTILIZE TUNED PID LOOPS TO MAINTAIN SET POINTS AND MINIMUM/MAXIMUM LEAVING

3. COORDINATE INDIVIDUAL ALARM NOTIFICATIONS WITH 4. ALARMS SHALL BE CONFIGURED AS STATUS ONLY OR CRITICAL. STATUS ONLY ALARMS SHALL DISPLAY ALARM ON THE OWNER COORDINATED WORKSTATION(S) AND DEVICE(S). CRITICAL ALARMS SHALL INCORPORATE

COORDINATED UNIT SHUTDOWN ALONG WITH DISPLAYING

ALARMS ON THE OWNER COORDINATED DEVICES AND

REQUIRE THE ALARM TO BE CLEARED PRIOR TO RESTARTING THE EQUIPMENT. 5. ALL HVAC EQUIPMENT SHALL OPERATE IN OCCUPIED/UNOCCUPIED MODES AS DETERMINED BY THE DDC BUILDING TIME CLOCK SYSTEM. OBTAIN THE BUILDING

OCCUPANCY SCHEDULE FROM THE OWNER. 6. ALL EQUIPMENT SHALL UTILIZE OPTIMUM START/STOP

7. ASSIGN ALL EQUIPMENT A STAGGER START NUMBER TO KEEP TO MANY UNITS FROM STARTING AT THE SAME TIME. IN EFFECT, THIS FLATTENS LOAD PEAKS. THIS INCLUDES START-UP ON EMERGENCY POWER.

8. UNOCCUPIED OVERRIDE BUTTONS SHALL PLACE THE SPACE EQUIPMENT IN OCCUPIED MODE FOR A PERIOD OF ONE-HOUR (ADJUSTABLE).

9. COORDINATE CHILLED WATER VALVE AND CHILLED WATER PUMP RESPONSE TIME WITH THE CHILLER MANUFACTURER'S

MAXIMUM RATE OF CHANGE IN CHILLED WATER FLOW. B. UNIVERSAL SET POINTS. UNLESS OTHERWISE NOTED, USE THE FOLLOWING SPACE TEMPERATURE SET POINTS. SET POINTS SHALL BE INDEPENDENTLY ADJUSTABLE BY SPACE THROUGH THE BMS. OCCUPIED MODES UNOCCUPIED MODES

COOLING HEATING COOLING HEATING OCCUPIED SPACES 74°F 69°F 85°F 55°F UNOCCUPIED SPACES 80°F 60°F 85°F 55°F

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PROJECT INFORMATION

SCHOOL DISTRICT

PHASE 1: 2022 BOND

SOUTH ORANGETOWN CSD

SOUTH ORANGETOWN CENTRAL

160 VAN WYCK RD. BLAUVELT, NY 10913

OTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022

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CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001

TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001

COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002

14457.20

Client Name

TYPICAL CLASSROOM DOAS CONTROLS DIAGRAM

A. **ENERGY RECOVERY UNITS:**

1. OCCUPIED MODE

a. ENABLE SUPPLY AND EXHAUST EC FAN MOTORS AT ALL TIMES.

1) ENERGIZE THE DUCT MOUNTED HEATING COIL TO MAINTAIN THE **DUCT TEMPERATURE SET POINT.** 2. UNOCCUPIED MODES

a. SEQUENCE OF OPERATIONS IN UNOCCUPIED MODE IS THE SAME AS OCCUPIED MODE EXCEPT THE ERU SHALL BE DISABLED UNLESS THERE IS A CALL FOR HEATING OR COOLING. CONTROL VALVES SHALL BE CLOSED UNLESS THE ERU IS ENABLED.

3. ALARMS

a. FAN START FAILURE. b. FAN STOP FAILURE.

c. HIGH/LOW DISCHARGE AIR TEMPS.

d. HIGH/LOW COIL ENTERING AIR TEMPS

e. HIGH WATER LEVEL IN DRAIN PAN f. DIRTY FILTER

SPACE TEMPERATURES SPACE TEMPERATURE SET POINTS AO AO AO SPACE SENSORS ARE VRF OEM SENSORS. REFERENCE PLANS FOR QUANTITY AND LOCATIONS. ENERGY RECOVERY MODULE

SSI SPACE TEMPERATURE SENSOR (S) CDO SSI **SPACE TEMPERATURE** DI € CT SENSOR (S) CDO

> VRF MANUFACTURER TO PROVIDE CONTROL OF SPACE TEMPERATURE SET POINTS, OCCUPIED/UNOCCUPIED MODES, HEATING, COOLING MODES AND LOAD DEMAND.

SSO-1 (\$∕s)€EDO **HEAT PUMP UNITS ONLY** FOR SELECTING HEATING AND COOLING MODE

> SPACE **TEMPERATURE**

a. HEATING MODE: MODULATE CONTROL VALVE TO MAINTAIN SPACE

TEMPERATURE SET POINT OF 69°F - ADJUSTABLE.

b. COOLING MODE: MODULATE CONTROL VALVE TO FULL CLOSED

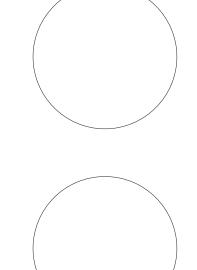
c. ALARMS:

1) HIGH/LOW SPACE TEMPERATURE.

OFFICE VRF SYSTEM CONTROLS SCHEMATIC

SSI

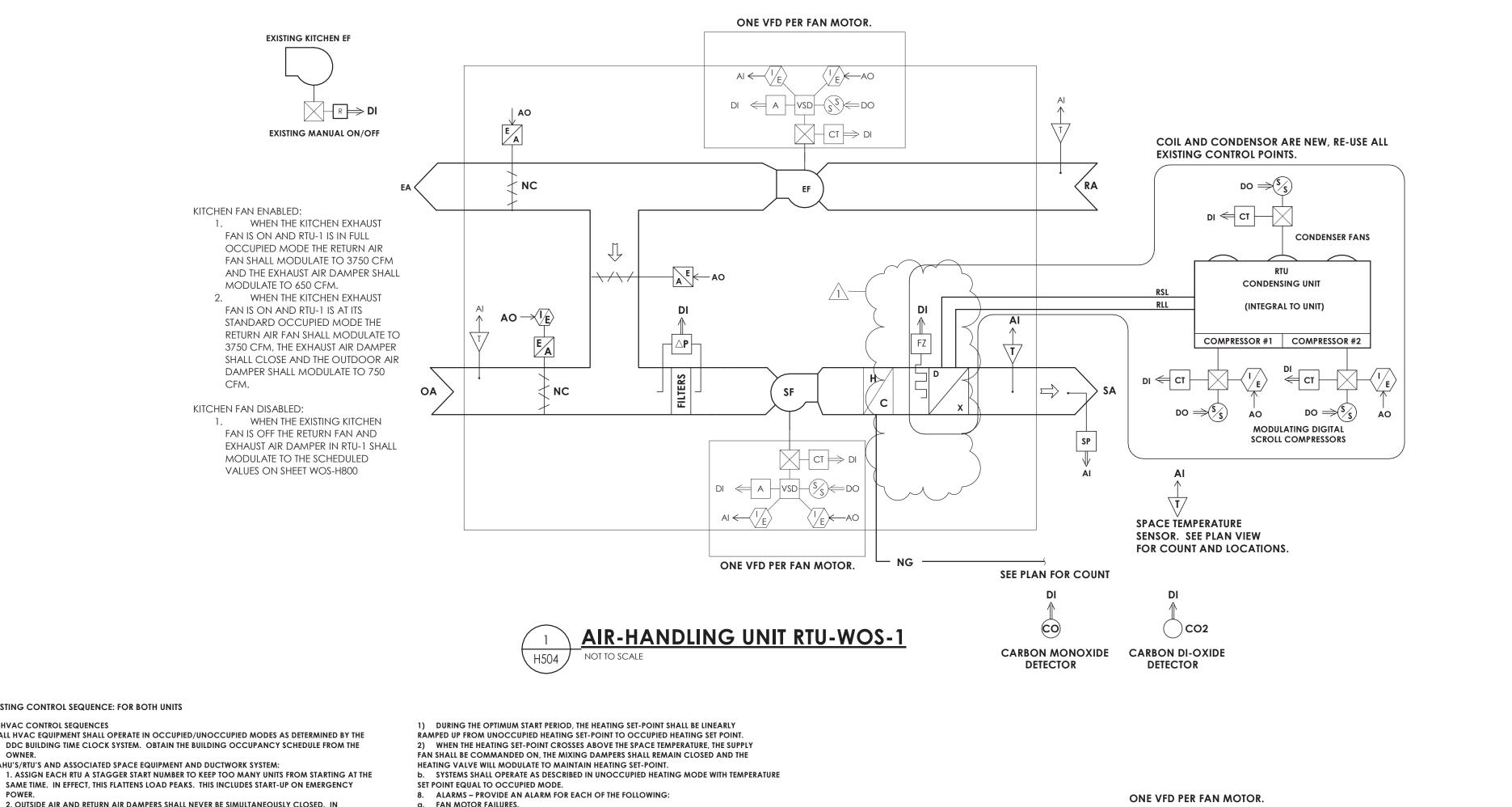




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GENERAL NOTES:

 SEQUENCES OF OPERATION SPECIFIED HEREIN, WHICH INDICATE THE FUNCTIONAL INTENT OF HVAC SYSTEMS, SUBSYSTEMS, AND/OR COMPONENTS OPERATION, ARE GENERAL IN NATURE AND MAY NOT FULLY DEFINE EVERY ASPECT OF PROGRAMMING THAT MAY BE REQUIRED TO FULFILL THE DESIGN INTENT. CONTRACTOR SHALL PROVIDE ALL PROGRAMMING AND HARDWARE NECESSARY TO OBTAIN THE SEQUENCES/SYSTEM OPERATION INDICATED, RESULTING IN STABLE HVAC SYSTEM OPERATION IN ACCORDANCE WITH THE DESIGN INTENT. THE SYSTEM SHALL COMMUNICATE WITH THE EXISTING BMS.

1.1 HVAC CONTROL SEQUENCES

- 1. ALL SET POINTS, CHANGEOVER POINTS AND RESET SCHEDULES SHALL BE USER ADJUSTABLE.
- 2. CONTROL ALGORITHMS SHALL UTILIZE TUNED PID LOOPS TO MAINTAIN SET POINTS AND MINIMUM/MAXIMUM LEAVING AIR TEMPERATURES OPTIMALLY. 3. COORDINATE INDIVIDUAL ALARM NOTIFICATIONS WITH
- 4. ALARMS SHALL BE CONFIGURED AS STATUS ONLY OR CRITICAL. STATUS ONLY ALARMS SHALL DISPLAY ALARM ON THE OWNER COORDINATED WORKSTATION(S) AND DEVICE(S). CRITICAL ALARMS SHALL INCORPORATE

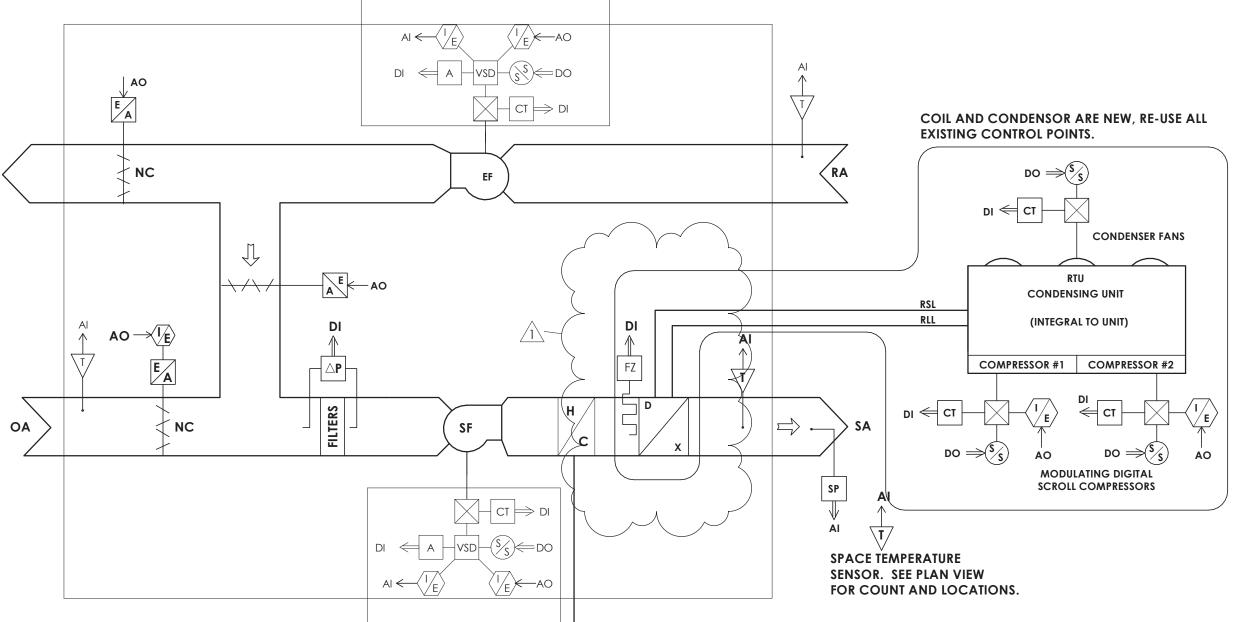
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- 6. ALL EQUIPMENT SHALL UTILIZE OPTIMUM START/STOP PROGRAMS. 7. ASSIGN ALL EQUIPMENT A STAGGER START NUMBER TO KEEP TO MANY UNITS FROM STARTING AT THE SAME TIME. IN
- EFFECT, THIS FLATTENS LOAD PEAKS. THIS INCLUDES START-UP ON EMERGENCY POWER. 8. UNOCCUPIED OVERRIDE BUTTONS SHALL PLACE THE SPACE **EQUIPMENT IN OCCUPIED MODE FOR A PERIOD OF**
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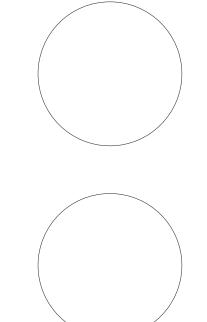


SEE PLAN FOR COUNT

(CO)

CARBON MONOXIDE DETECTOR

PROFESSIONAL STAMPS



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PROJECT INFORMATION

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CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001

TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

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SHEET INFORMATION

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Drawing Title MECHANICAL CONTROLS

Scale

EXISTING CONTROL SEQUENCE: FOR BOTH UNITS 3.1 HVAC CONTROL SEQUENCES

A. ALL HVAC EQUIPMENT SHALL OPERATE IN OCCUPIED/UNOCCUPIED MODES AS DETERMINED BY THE

B. AHU'S/RTU'S AND ASSOCIATED SPACE EQUIPMENT AND DUCTWORK SYSTEM: 1. ASSIGN EACH RTU A STAGGER START NUMBER TO KEEP TOO MANY UNITS FROM STARTING AT THE

SAME TIME. IN EFFECT, THIS FLATTENS LOAD PEAKS. THIS INCLUDES START-UP ON EMERGENCY 2. OUTSIDE AIR AND RETURN AIR DAMPERS SHALL NEVER BE SIMULTANEOUSLY CLOSED. IN UNOCCUPIED MODES, THE RETURN AIR DAMPER SHALL BE FULL OPEN AND SHALL ONLY MODULATE CLOSED AS THE OUTDOOR AIR DAMPER MODULATES OPEN TO PROVIDE MAKEUP FOR SPACES THAT ARE EXHAUSTED.

3. ALL OCCUPIED MODES: A. RTU SUPPLY FAN: 1) RUN CONTINUOUSLY.

B. RTU EXHAUST FAN: 1) RUN CONTINUOUSLY.

C. OUTSIDE AIR DAMPER: 1) OPEN TO MAINTAIN OUTSIDE AIR QUANTITY AS SCHEDULED, OUTSIDE AIR DAMPER SHALL

NEVER BE POSITIONED BELOW THIS MINIMUM EXCEPT IN CASE OF EMERGENCY. 2) MODULATE OUTSIDE AIR DAMPER BEYOND SCHEDULED MINIMUM POSITION AS A) AS REQUIRED FOR ECONOMIZER COOLING (SEE COOLING MODE BELOW).

D. EXHAUST AIR DAMPER: 1) MODULATE WITH OUTSIDE AIR DAMPER TO MAINTAIN FOLLOWING AIR BALANCE: EXH CFM = SA CFM - OA CFM. 4. OCCUPIED HEATING MODE -SPACE TEMPERATURE BELOW SET POINT.

A. UNIT MOUNTED HEATING COIL: MODULATE COIL CONTROL VALVE (CV) TO MAINTAIN SPACE TEMPERATURE SET POINT. B. UNIT MOUNTED INDIRECT FIRED GAS HEATING: MODULATE GAS BURNER TO MAINTAIN SPACE TEMPERATURE SET POINT. C. SPACE TEMPERATURE SET POINTS: 1) HEATING = 69 DEGREES (ADJUSTABLE).

D. LAT TEMPERATURE SET POINTS: 1) MINIMUM TEMPERATURE RESET SCHEDULE: A. 65 DEGREE LAT AT 0 DEGREE OAT.

B. 55 DEGREE LAT AT 55 DEGREE OAT. 5. OCCUPIED ECONOMIZER COOLING MODE - WHEN THERE IS CALL FOR COOLING AND THE OUTDOOR AIR TEMPERATURE IS BELOW THE SPACE TEMPERATURE. 1) ECONOMIZER COOLING SET POINT: 74°F.

2) MODULATE EXHAUST AND OUTDOOR AIR DAMPERS INVERSELY TO MAINTAIN SPACE TEMPERATURE SET POINT.

6. ALL UNOCCUPIED MODES: i. SPACE TEMPERATURE SET POINTS: 1) HEATING = 60 DEGREES.

2) COOLING = 85 DEGREES, FOR UNITS WITH DX. b. RTU AND DUCT MOUNTED HEATING COIL: 1) ALL SAME AS OCCUPIED MODE WITH FOLLOWING EXCEPTIONS: a) ENABLE AND DISABLE UNIT ONLY TO MEET TEMPERATURE SET POINT.

b) RETURN AIR DAMPER SHALL BE IN THE FULL OPEN POSITION. c) EXHAUST AIR DAMPER SHALL BE IN THE FULL CLOSED POSITION. d) THE EXHAUST FAN SHALL REMAIN DISABLED.

WARM-UP MODE.: a. ALL UNITS SHALL START PER OPTIMUM START PROGRAM. 1) OPTIMUM START DURATION SHALL BE DETERMINED BASED ON OUTSIDE AIR a. FAN MOTOR FAILURES.

b. DISCHARGE AIR TEMPERATURE LOW/HIGH LIMITS.

c. SPACE TEMPERATURE LOW/HIGH LIMITS +/-5°F. VFD FAULT. 9. UNOCCUPIED MODE BY OCCUPANCY SENSOR DURING DDC SCHEDULED OCCUPIED PERIOD g. DURING THE SCHEDULED OCCUPIED MODE WHEN THE SPACE IS UNOCCUPIED AS SENSED BY THE ROOM OCCUPANCY SENSOR. THE OUTSIDE AIR DAMPER WILL BE SET TO THE STANDARD OCCUPANCY MINIMUM OUTSIDE AIR AS INDICATED ON THE SCHEDULE b. IN HEATING MODE, THE SPACE TEMPERATURE SET-POINT SHALL BE RESET TO 2°F (ADJUSTABLE)

LOWER THAN THE OCCUPIED SET-POINT. IN COOLING MODE, THE SPACE TEMPERATURE SET-POINT SHALL BE RESET TO 2°F (ADJUSTABLE) HIGHER THAN THE OCCUPIED SET-POINT. c. THE SUPPLY FAN SHALL CYCLE REMAIN ON TO MAINTAIN THE STANDARD MINIMUM OUTSIDE d. WHEN THE SPACE IS OCCUPIED AS SENSED BY THE ROOM OCCUPANCY SENSOR, THE

SEQUENCE SHALL BE INDEXED TO THE OCCUPIED MODE.

C. CARBON MONOXIDE DETECTION: UPON RISE IN CARBON MONOXIDE AT OR ABOVE 20PPM AS DETECTED BY A SPACE SENSOR, DISPLAY ALARM AT OPERATOR WORK STATION.

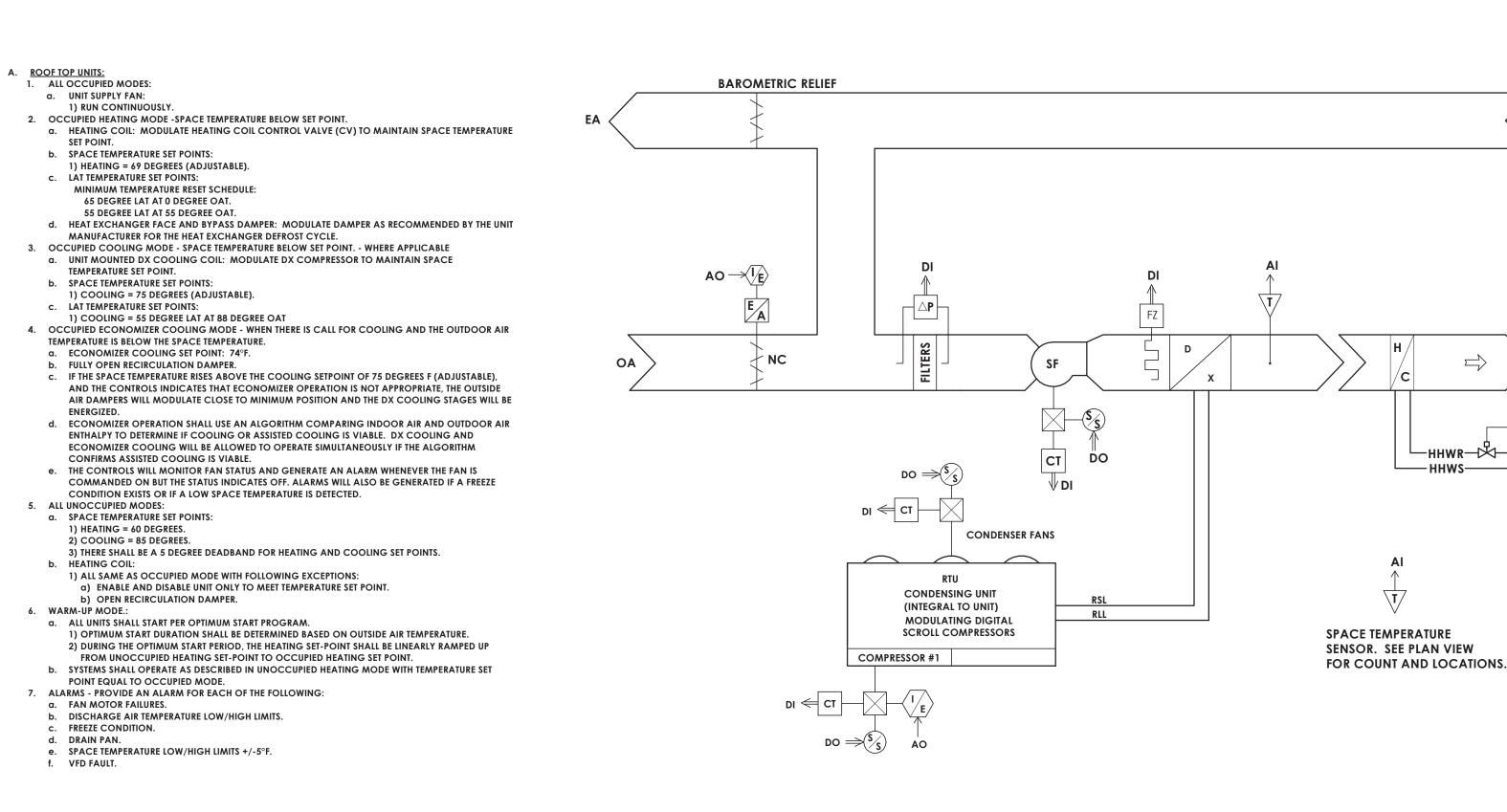
SOUND AUDIBLE ALARM AT SENSOR AND AT THE ASSOCIATED HALLWAY SENSOR IF

APPLICABLE. ADD COOLING CONTROL SEQUENCE: FOR BOTH UNITS 1. OCCUPIED COOLING MODE - SPACE TEMPERATURE BELOW SET POINT. -WHERE APPLICABLE a. UNIT MOUNTED DX COOLING COIL: MODULATE DX COMPRESSOR TO MAINTAIN SPACE TEMPERATURE SET POINT. b. SPACE TEMPERATURE SET POINTS: 1) COOLING = 75 DEGREES (ADJUSTABLE). c. LAT TEMPERATURE SET POINTS: 2) COOLING = 55 DEGREE LAT AT 88 DEGREE OAT.

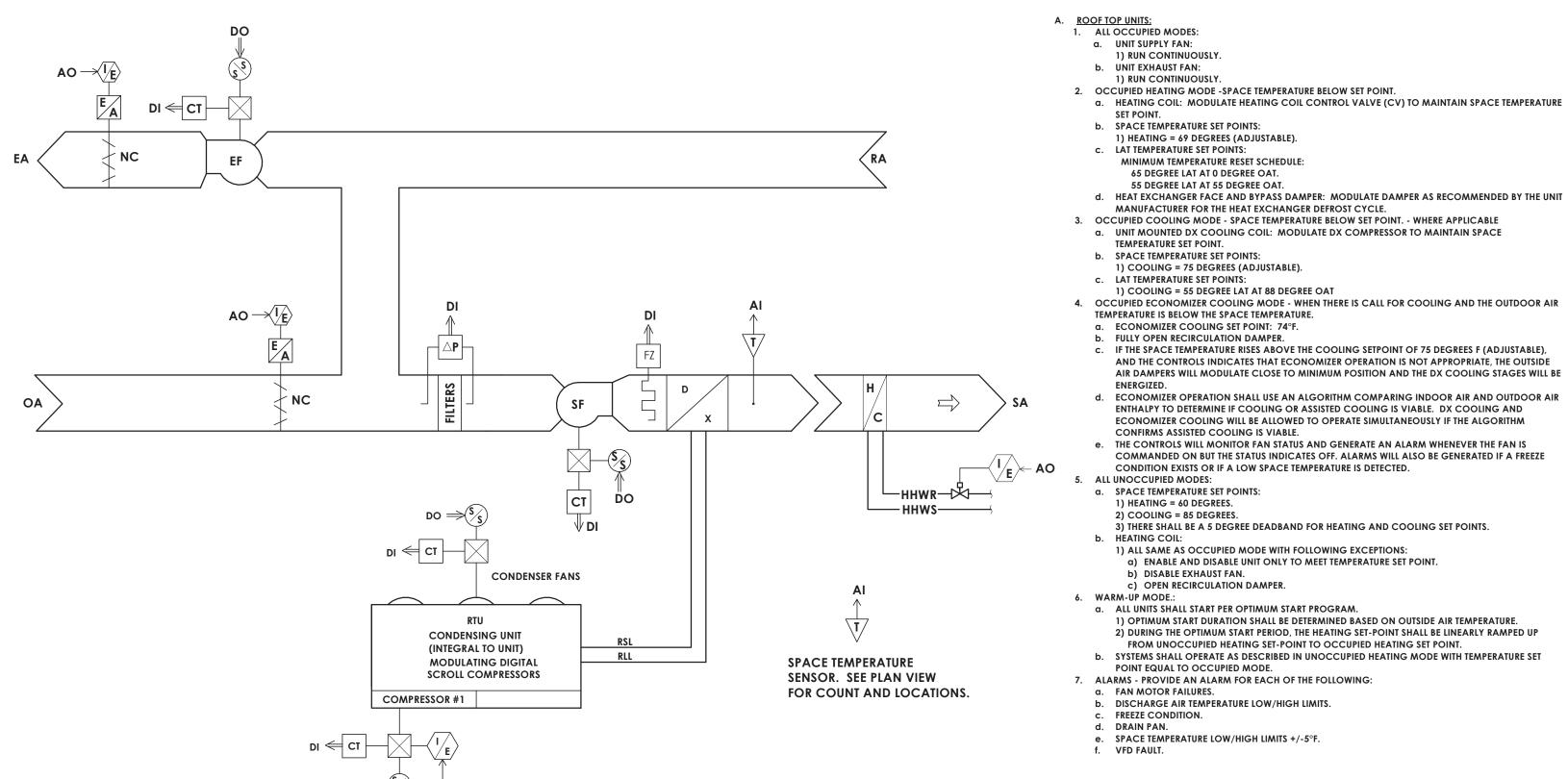
2. UPON RISE IN CARBON MONOXIDE LEVEL AT OR ABOVE 30PPM AS DETECTED BY A SPACE

AIR-HANDLING UNIT RTU-WOS-2

ONE VFD PER FAN MOTOR.







d. ECONOMIZER OPERATION SHALL USE AN ALGORITHM COMPARING INDOOR AIR AND OUTDOOR AIR ENTHALPY TO DETERMINE IF COOLING OR ASSISTED COOLING IS VIABLE. DX COOLING AND ECONOMIZER COOLING WILL BE ALLOWED TO OPERATE SIMULTANEOUSLY IF THE ALGORITHM CONFIRMS ASSISTED COOLING IS VIABLE. e. THE CONTROLS WILL MONITOR FAN STATUS AND GENERATE AN ALARM WHENEVER THE FAN IS COMMANDED ON BUT THE STATUS INDICATES OFF. ALARMS WILL ALSO BE GENERATED IF A FREEZE CONDITION EXISTS OR IF A LOW SPACE TEMPERATURE IS DETECTED. a. SPACE TEMPERATURE SET POINTS: 3) THERE SHALL BE A 5 DEGREE DEADBAND FOR HEATING AND COOLING SET POINTS. 1) ALL SAME AS OCCUPIED MODE WITH FOLLOWING EXCEPTIONS: a) ENABLE AND DISABLE UNIT ONLY TO MEET TEMPERATURE SET POINT. c) OPEN RECIRCULATION DAMPER. a. ALL UNITS SHALL START PER OPTIMUM START PROGRAM. 1) OPTIMUM START DURATION SHALL BE DETERMINED BASED ON OUTSIDE AIR TEMPERATURE. 2) DURING THE OPTIMUM START PERIOD, THE HEATING SET-POINT SHALL BE LINEARLY RAMPED UP FROM UNOCCUPIED HEATING SET-POINT TO OCCUPIED HEATING SET POINT. b. SYSTEMS SHALL OPERATE AS DESCRIBED IN UNOCCUPIED HEATING MODE WITH TEMPERATURE SET POINT EQUAL TO OCCUPIED MODE. 7. ALARMS - PROVIDE AN ALARM FOR EACH OF THE FOLLOWING: b. DISCHARGE AIR TEMPERATURE LOW/HIGH LIMITS. e. SPACE TEMPERATURE LOW/HIGH LIMITS +/-5°F.

ROOFTOP UNIT RTU-3 CLE CONTROL SCHEMATIC

ALTERNATE MC-01 - PROVIDE NEW FULL BUILDING CONTROLS AND ALL ASSOCIATED COMPONENTS TO HAVE A NEW HEAD END AND FULLY OPERATIONAL SYSTEM. PROVIDE CONTROLS TO ALL EXISTING TO REMAIN EQUIPMENT. BASE BID - PROVIDE CONTROLS AND NEW HEAD END FOR THE NEW EQUIPEMENT. SEE PLANS FOR QUANTITY AND LOCATION, FOR BOTH SCHOOLS. VERIFY ALL EXISTING CONTROL SEQUENCES BEFORE

THE COMMENCEMENT OF ANY DEMOLITION WORK.

GENERAL NOTES:

—HHWR—⊠—

-HHWS-

1. SEQUENCES OF OPERATION SPECIFIED HEREIN, WHICH INDICATE THE FUNCTIONAL INTENT OF HVAC SYSTEMS, SUBSYSTEMS, AND/OR COMPONENTS OPERATION, ARE GENERAL IN NATURE AND MAY NOT FULLY DEFINE EVERY ASPECT OF PROGRAMMING THAT MAY BE REQUIRED TO FULFILL THE DESIGN INTENT. CONTRACTOR SHALL PROVIDE ALL PROGRAMMING AND HARDWARE NECESSARY TO OBTAIN THE SEQUENCES/SYSTEM OPERATION INDICATED, RESULTING IN STABLE HVAC SYSTEM OPERATION IN ACCORDANCE WITH THE DESIGN INTENT. THE SYSTEM SHALL COMMUNICATE WITH THE EXISTING BMS.

1.1 HVAC CONTROL SEQUENCES

1. ALL SET POINTS, CHANGEOVER POINTS AND RESET SCHEDULES SHALL BE USER ADJUSTABLE. 2. CONTROL ALGORITHMS SHALL UTILIZE TUNED PID LOOPS TO MAINTAIN SET POINTS AND MINIMUM/MAXIMUM LEAVING AIR TEMPERATURES OPTIMALLY. 3. COORDINATE INDIVIDUAL ALARM NOTIFICATIONS WITH

4. ALARMS SHALL BE CONFIGURED AS STATUS ONLY OR CRITICAL. STATUS ONLY ALARMS SHALL DISPLAY ALARM ON THE OWNER COORDINATED WORKSTATION(S) AND DEVICE(S). CRITICAL ALARMS SHALL INCORPORATE COORDINATED UNIT SHUTDOWN ALONG WITH DISPLAYING ALARMS ON THE OWNER COORDINATED DEVICES AND REQUIRE THE ALARM TO BE CLEARED PRIOR TO RESTARTING THE EQUIPMENT.

5. ALL HVAC EQUIPMENT SHALL OPERATE IN OCCUPIED/UNOCCUPIED MODES AS DETERMINED BY THE DDC BUILDING TIME CLOCK SYSTEM. OBTAIN THE BUILDING OCCUPANCY SCHEDULE FROM THE OWNER.

6. ALL EQUIPMENT SHALL UTILIZE OPTIMUM START/STOP PROGRAMS. 7. ASSIGN ALL EQUIPMENT A STAGGER START NUMBER TO KEEP TO MANY UNITS FROM STARTING AT THE SAME TIME. IN EFFECT, THIS FLATTENS LOAD PEAKS. THIS INCLUDES START-UP

ON EMERGENCY POWER. 8. UNOCCUPIED OVERRIDE BUTTONS SHALL PLACE THE SPACE **EQUIPMENT IN OCCUPIED MODE FOR A PERIOD OF** ONE-HOUR (ADJUSTABLE).

9. COORDINATE CHILLED WATER VALVE AND CHILLED WATER PUMP RESPONSE TIME WITH THE CHILLER MANUFACTURER'S MAXIMUM RATE OF CHANGE IN CHILLED WATER FLOW.

B. UNIVERSAL SET POINTS. UNLESS OTHERWISE NOTED, USE THE FOLLOWING SPACE TEMPERATURE SET POINTS. SET POINTS SHALL BE INDEPENDENTLY ADJUSTABLE BY SPACE THROUGH THE BMS. OCCUPIED MODES UNOCCUPIED MODES COOLING HEATING COOLING HEATING OCCUPIED SPACES 74°F 69°F 85°F 55°F UNOCCUPIED SPACES 80°F 60°F 85°F 55°F

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PROJECT INFORMATION

14457.20

Client Name SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

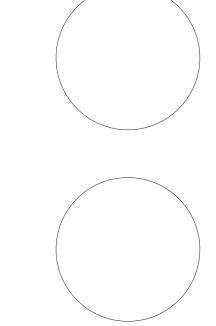
160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032] WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020 COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 OTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001 CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001 TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

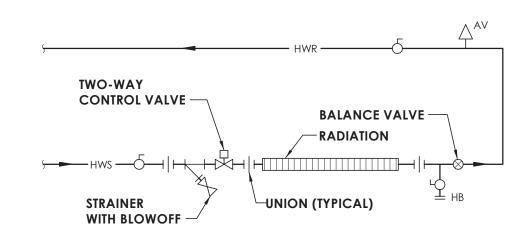
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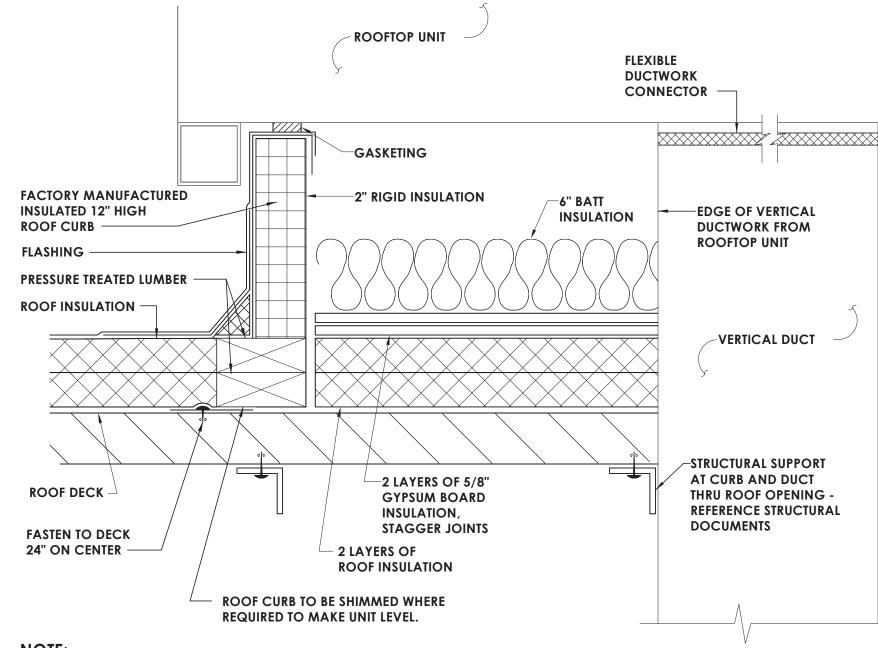
SHEET INFORMATION

Issued Scale 12" = 1'-0" 10/18/2023 Project Status BID DOCUMENTS

Drawn By KCM Drawing Title MECHANICAL CONTROLS







ALL ROOF TOP HVAC UNITS REQUIRED TO HAVE CURB AND CURB INTERIOR AS SHOWN.

ROOFTOP UNIT - ROOF CURB DETAIL





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PROJECT INFORMATION Project Number

14457.20 Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name **PHASE 1: 2022 BOND**

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

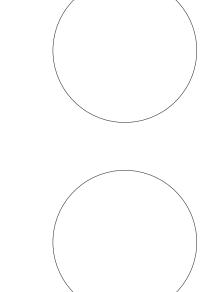
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PROJECT ISSUE & REVISION SCHEDULE

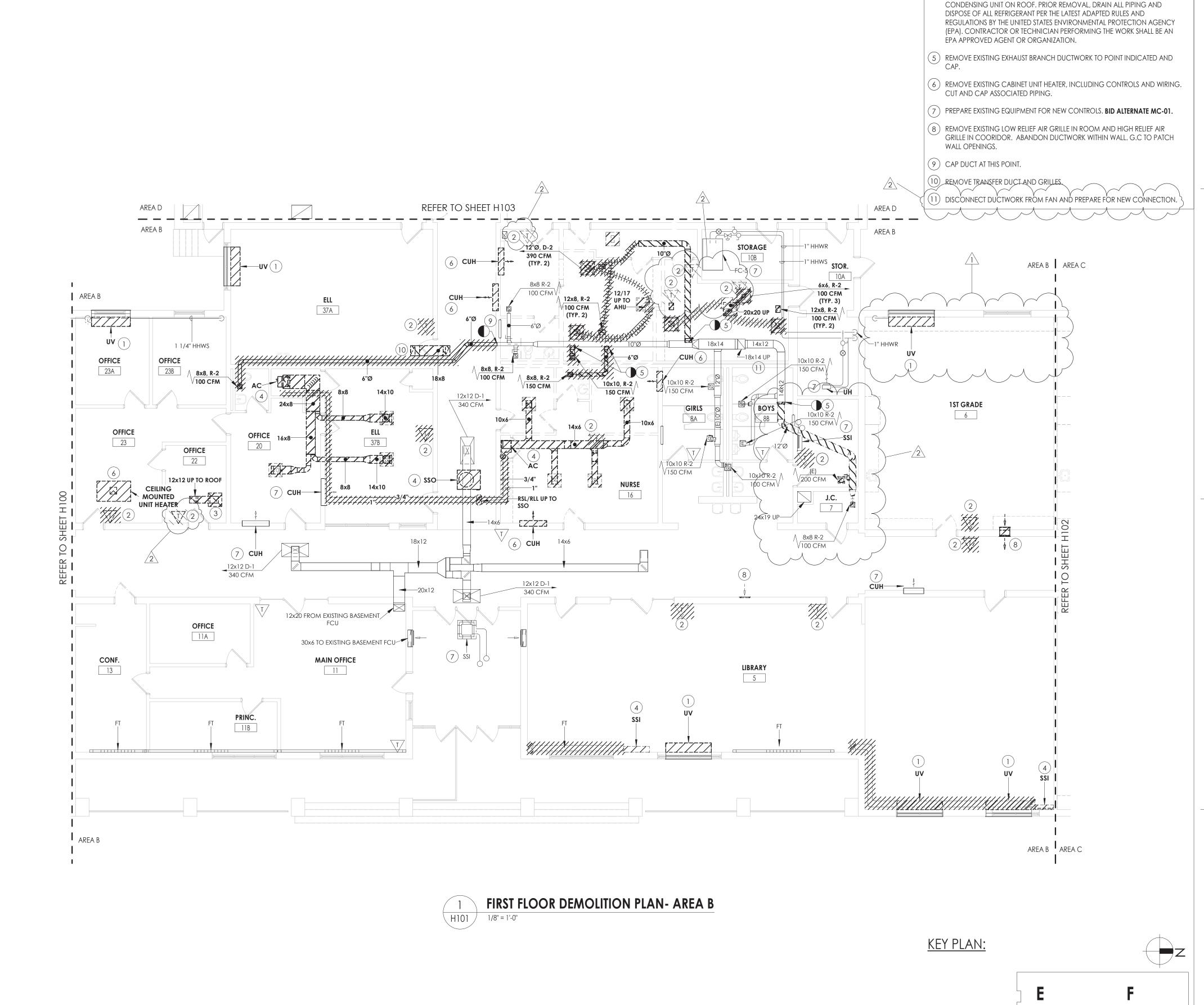
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Drawn By Drawing Title HVAC DETAILS



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KEY NOTES:

LOOP. PREPARE FOR NEW WORK.

CONTROL HEAD END.

(1) REMOVE EXISTING UNIT VENTILATOR. LOUVER AND SLEEVE TO REMAIN. CUT AND CAP PIPING AT FINTUBE. REFER TO ARCHITECTURAL PLAN. MAINTAIN THE PIPING

(4) REMOVE EXISTING HEATING/COOLING UNIT. REMOVE ALL ASSOCIATED PIPING, DUCTWORK, AND CONTROLS. REMOVE ALL RLL/RSL PIPING FROM UNIT TO

(2) REMOVE EXISTING ROOM TEMPERATURE SENSOR AND WIRING BACK TO

(3) REMOVE EXISTING GRILLE AND DUCTWORK UP TO ROOF.



PROJECT INFORMATION

14457.20

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

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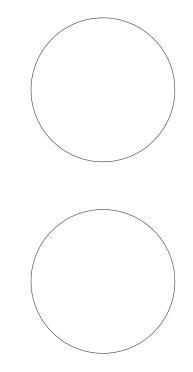
PROJECT ISSUE & REVISION SCHEDULE

1 10/27/2023 BID ADDENDUM #1

☐ TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

2 11/17/2023 BID ADDENDUM #4

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THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION

SHEET INFORMATION

Issued

FIRST FLOOR DEMOLITION PLANS-

wing Number WOS H101





KEY NOTES:

1) REMOVE EXISTING EXHAUST FAN.

2 REMOVE EXISTING RELIEF HOOD.

3 REMOVE EXISTING SSO UNIT.



PROJECT INFORMATION

Project Number 14457.20

Client Name SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name **PHASE 1: 2022 BOND**

District Office Address
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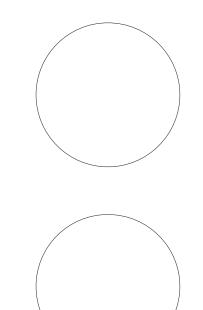
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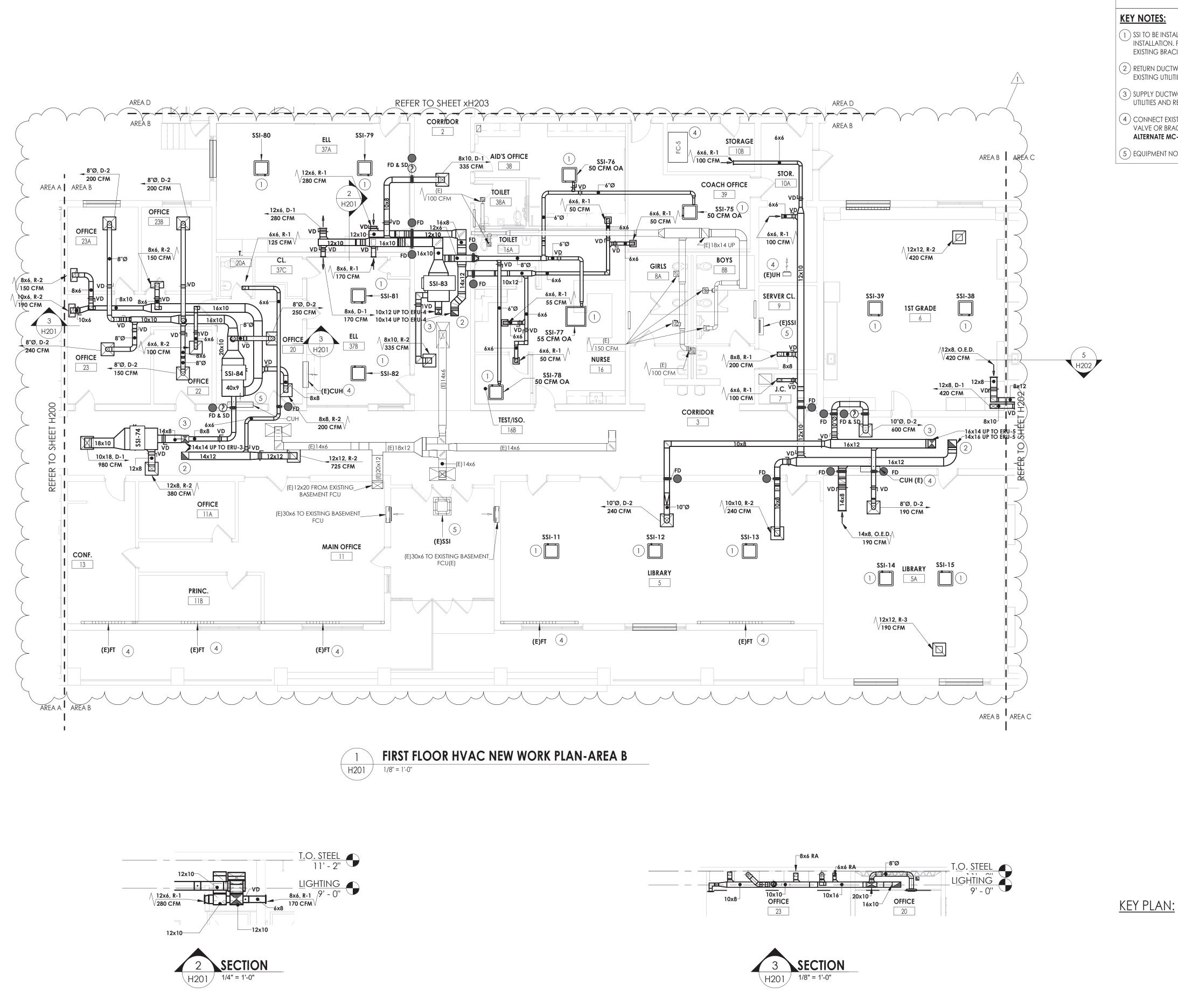
PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS



SHEET INFORMATION Scale 1/8" = 1'-0" Issued 10/18/2023 Project Status BID DOCUMENTS KCM



GENERAL NOTES

1. MAINTAIN ALL EXISTING ROOF WARRANTIES.

- 1) SSI TO BE INSTALLED IN JOIST SPACE. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING BRACING IS REMOVED.
- 2) RETURN DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
- (3) SUPPLY DUCTWORK TO BE ROUTED IN CEILING. COORDINATE WITH EXISTING UTILITIES AND REFRIGERANT PIPING.
- (4) CONNECT EXISTING EQUIPMENT TO NEW BMS SYSTEM, PROVIDE NEW CONTROL VALVE OR BRACNET CARD DEPENDING UPON THE TYPE OF EQUIPMENT. **BID ALTERNATE MC-01.**
- (5) EQUIPMENT NOT CONNECTED TO NEW BMS SYSTEM.

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PROJECT INFORMATION

14457.20

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

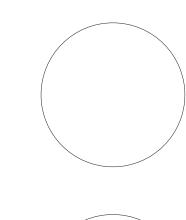
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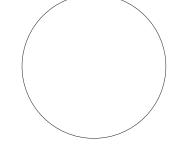
PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

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10/18/2023 As indicated

Project Status

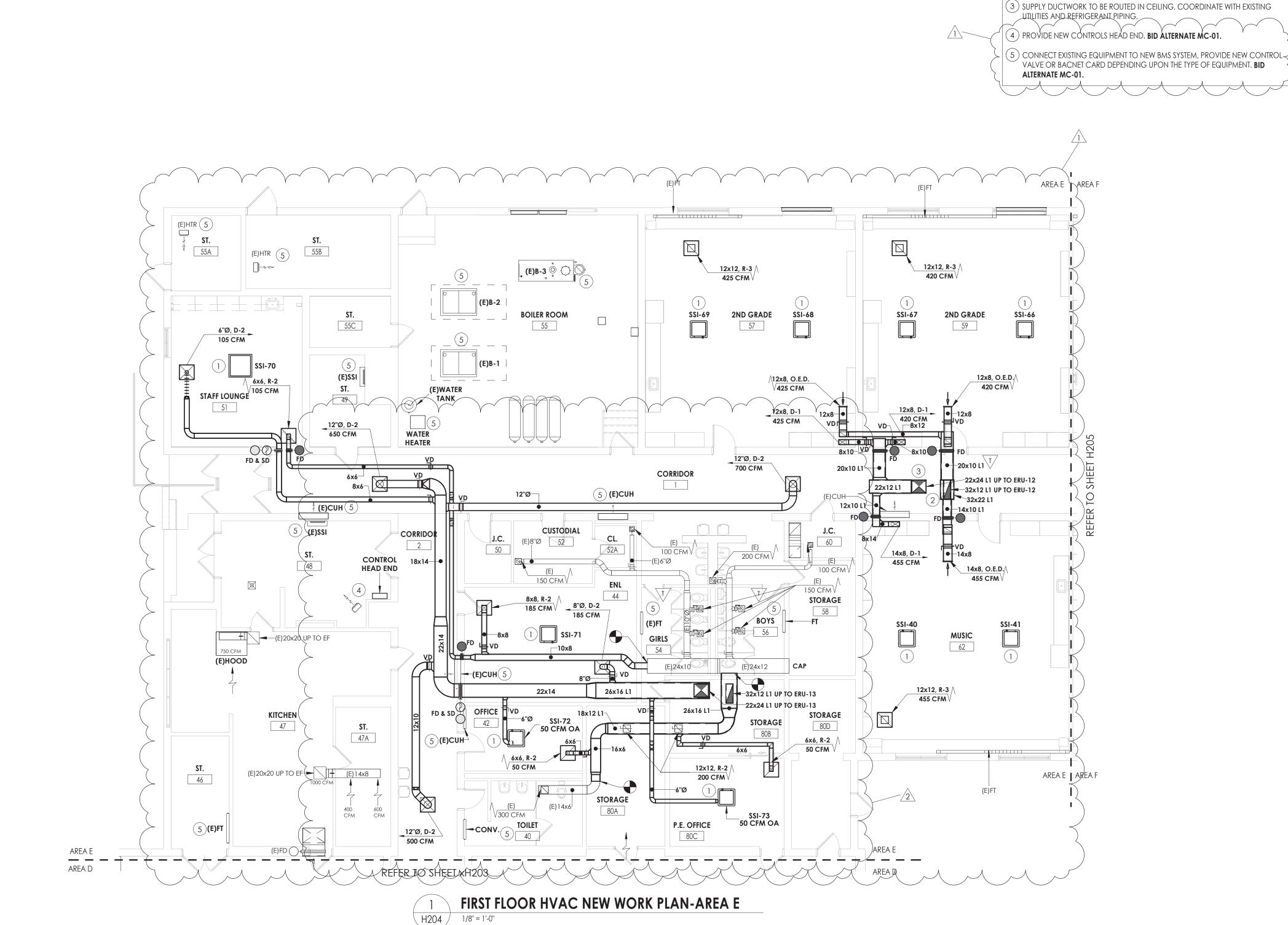
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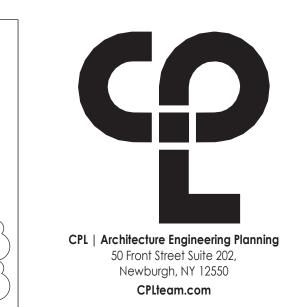
Drawn By Checked By

KCM JJM

Drawing Title
FIRST FLOOR HVAC NEW WORK
PLAN- AREA B

WOS H201







PROJECT INFORMATION

14457.20

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

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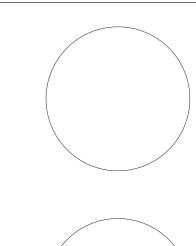
PROJECT ISSUE & REVISION SCHEDULE

1 10/27/2023 BID ADDENDUM #1

☐ TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

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THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION
ALTERATION.

Issued

 10/18/2023
 1/8" = 1'-0"

 Project Status
 BID DOCUMENTS

 Drawn By
 Checked By

 KCM
 JJM

FIRST FLOOR HVAC NEW WORK PLAN- AREA E

> WOS H204

E F
D

KEY PLAN:

KEY NOTES:

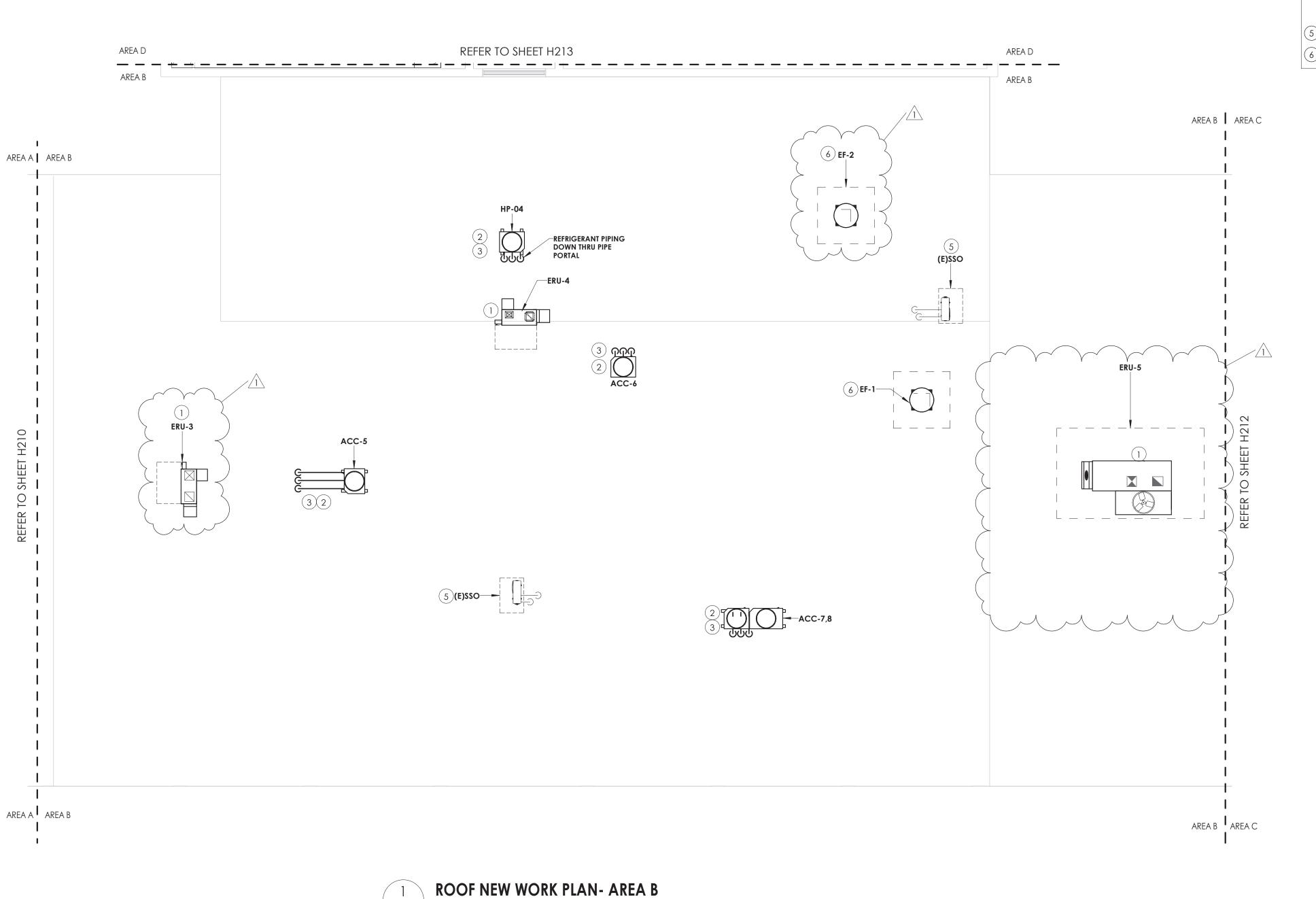
BRACING IS REMOVED.

EXISTING UTILITIES AND REFRIGERANT PIPING.

1) SSI TO BE INSTALLED IN JOIST SPACE. REMOVE BRACING AS NEEDED FOR INSTALLATION. PROVIDE NEW BRACING IN NEW LOCATION IF EXISTING

(2) RETURN DUCTWORK TO BE ROUTED IN HALLWAY CEILING. COORDINATE WITH

2:06:32 PM <



GENERAL NOTES

1. MAINTAIN ALL EXISTING ROOF WARRANTIES.

KEY NOTES

- (1) PROVIDE ERU ON INSULATED CURB WITH VIBRATION INSULATION.
- (2) PROVIDE WITH 12" EQUIPMENT RAILS, VIBRATION INSULATION AND PIPE PORTAL.
- (3) ROUTE NEW RS/RL LINES DOWN THROUGH ROOF, COORDINATE WITH EXISTING ROOFING AND STRUCTURE. INSTALL PER MANUFACTURERS INSTRUCTIONS.
- (4) CONNECT EXISTING EQUIPMENT TO NEW BMS SYSTEM, PROVIDE NEW CONTROL VALVE OR BACNET CARD DEPENDING UPON THE TYPE OF EQUIPMENT. **BID** ALTERNATE MC-01.
- (5) EXISTING EQUIPMENT NOT CONNECTED TO BMS.
- (6) PROVIDE NEW INSULATED ROOF CURB.





PROJECT INFORMATION

Project Number 14457.20 Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

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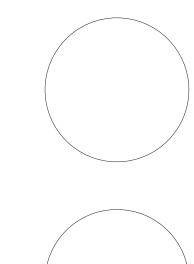
District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 ☐ TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032 WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020 COTTAGE LANE \$&L SED#: 50-03-01-06-0-010-023 COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001 CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001 ☐ TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS



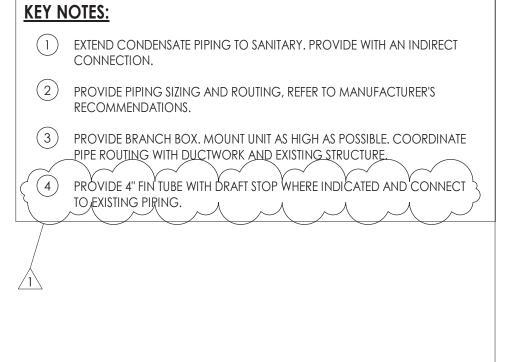


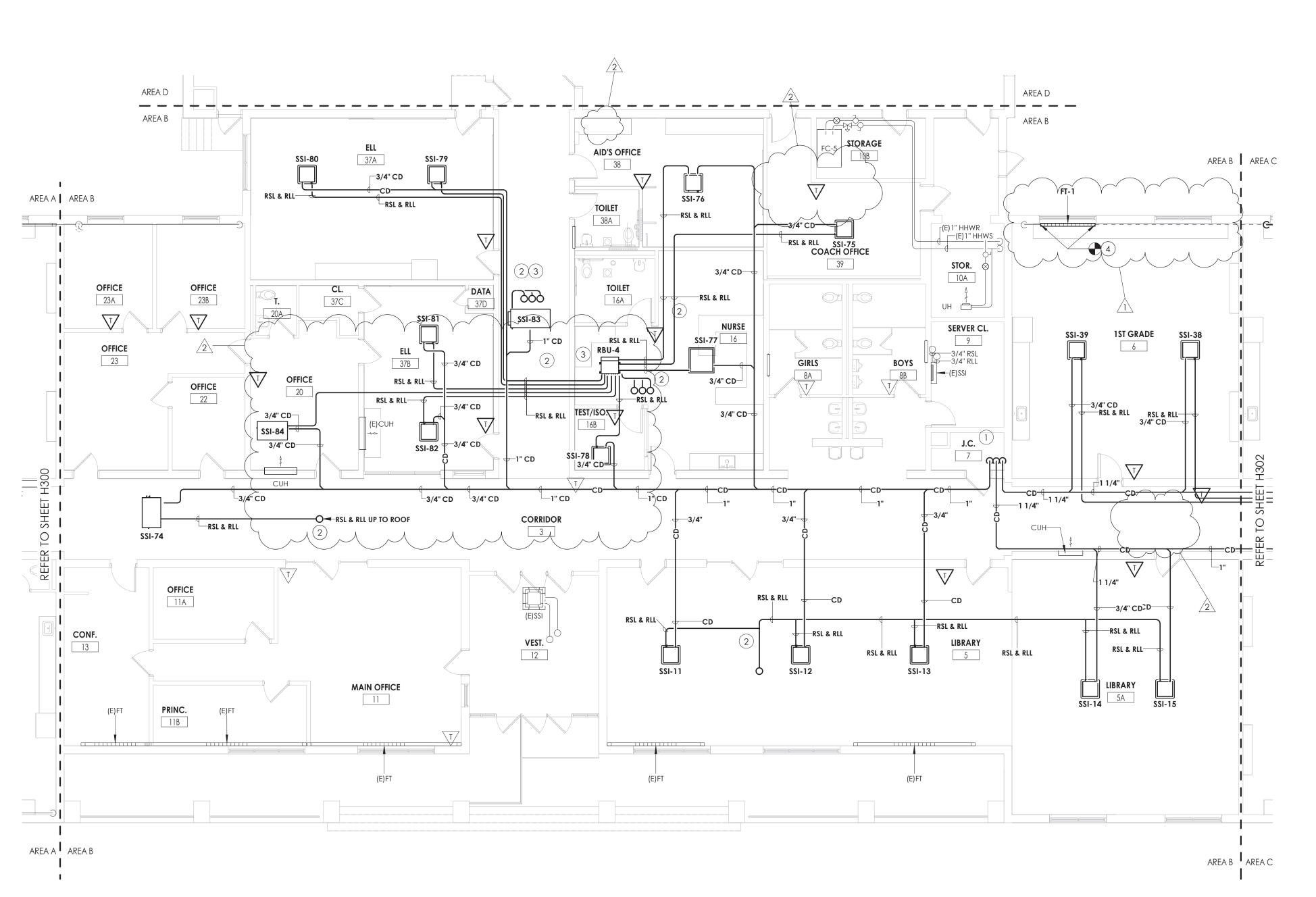
SHEET INFORMATION Issued 1/8" = 1'-0" 10/18/2023 Project Status BID DOCUMENTS Drawn By

ROOF HVAC NEW WORK PLAN-AREA B

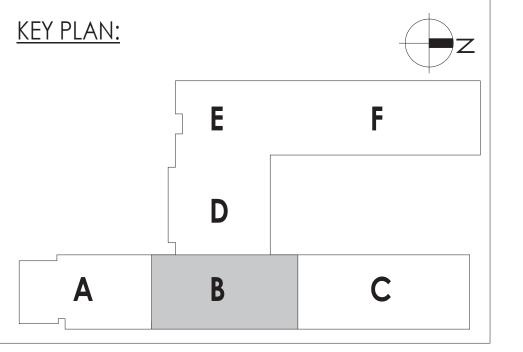
KEY PLAN:

1 ROOF NEW WORK PLAN- AREA B
H211 1/8" = 1'-0"





1 HVAC PIPING PLAN-AREA B
H301 1/8" = 1'-0"







PROJECT INFORMATION

14457.20

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

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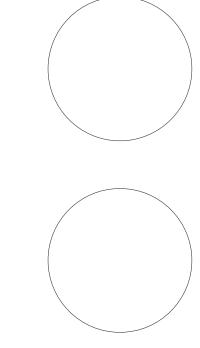
PROJECT ISSUE & REVISION SCHEDULE No. Date Description

1 10/27/2023 BID ADDENDUM #1

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2 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS



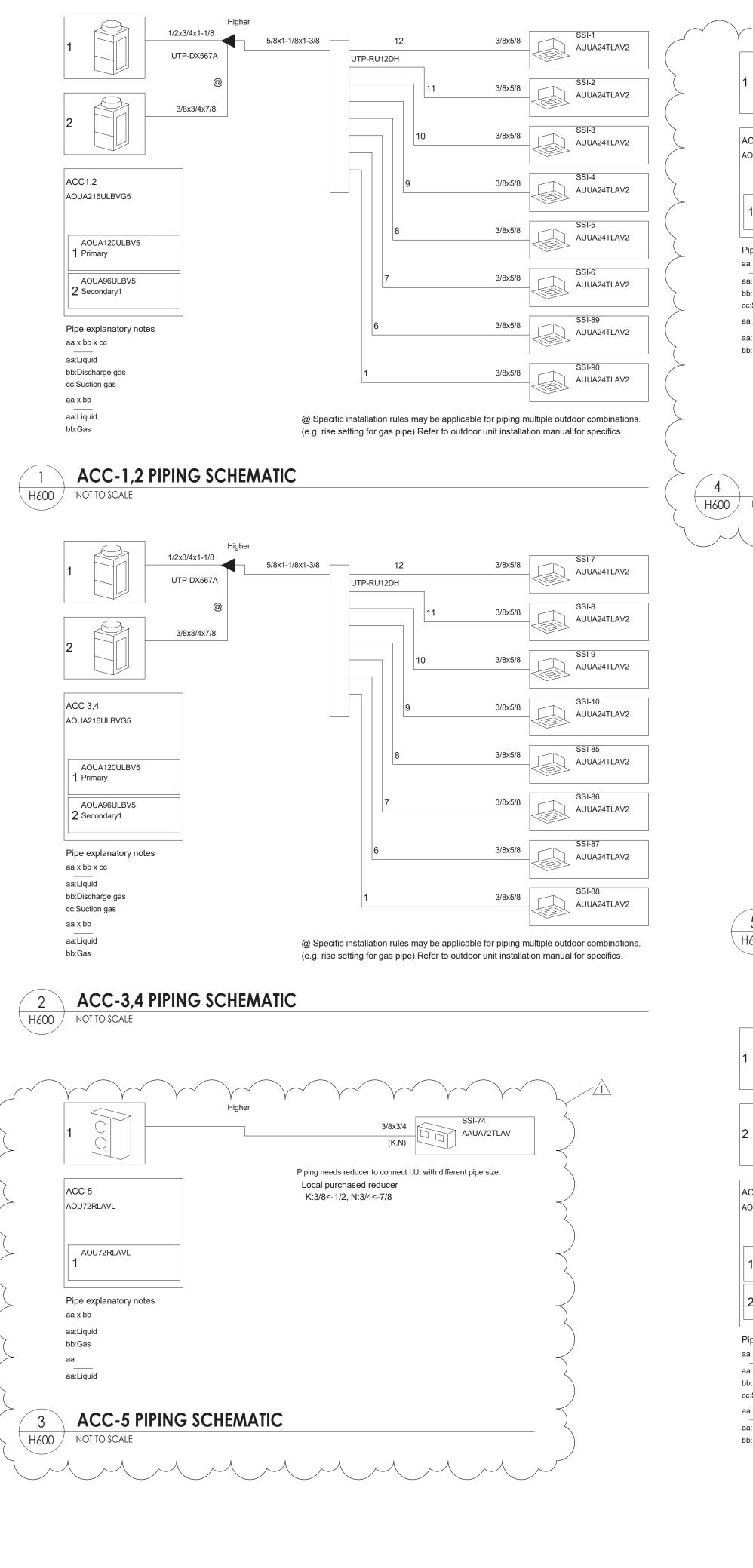
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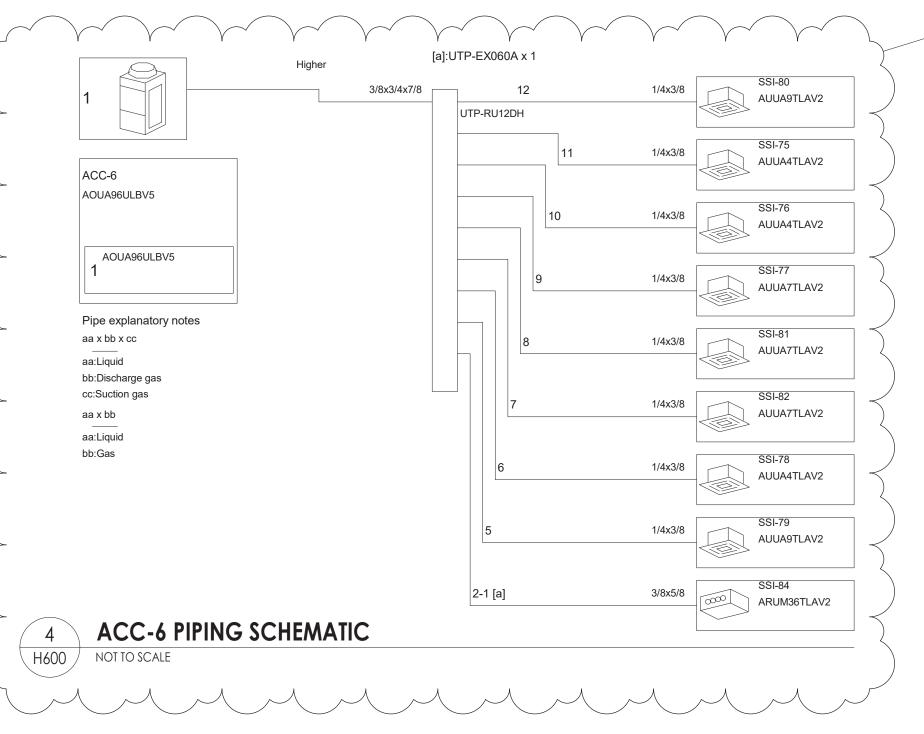
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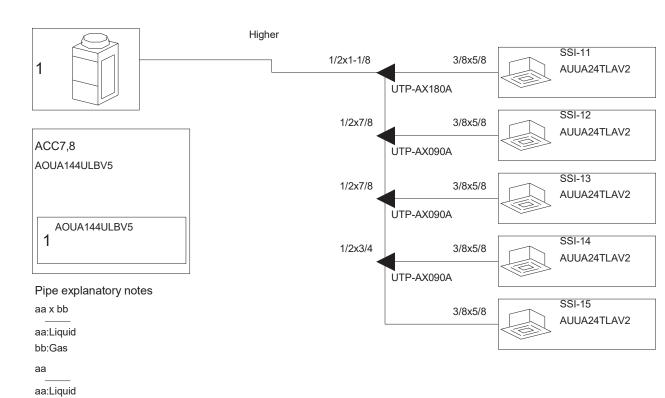
Project Status
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Drawn By Che
KCM JJ

FIRST FLOOR HVAC PIPING PLAN-AREA B

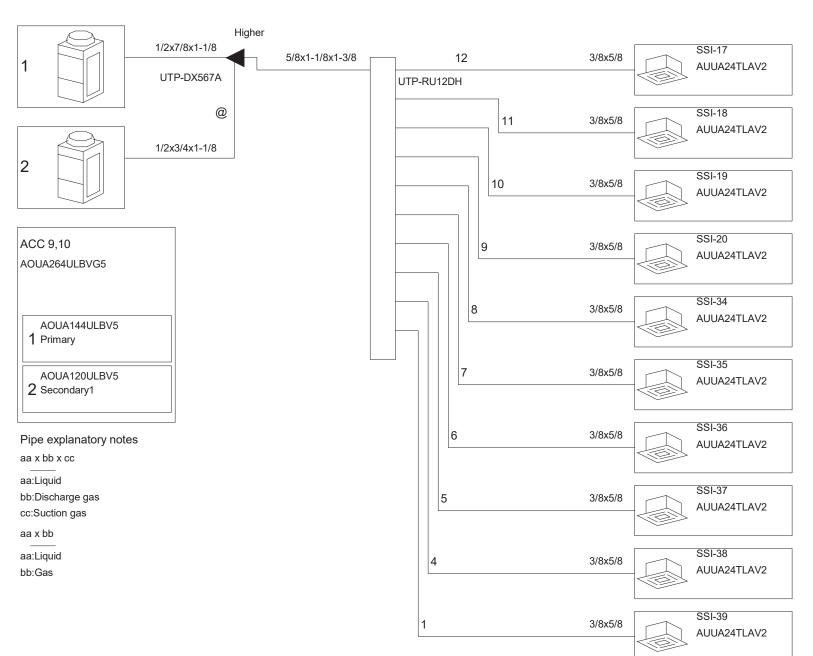
> WOS H301





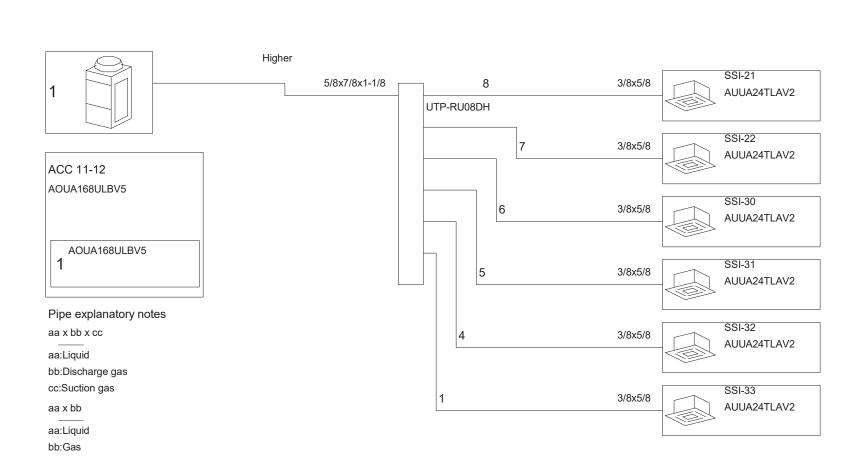




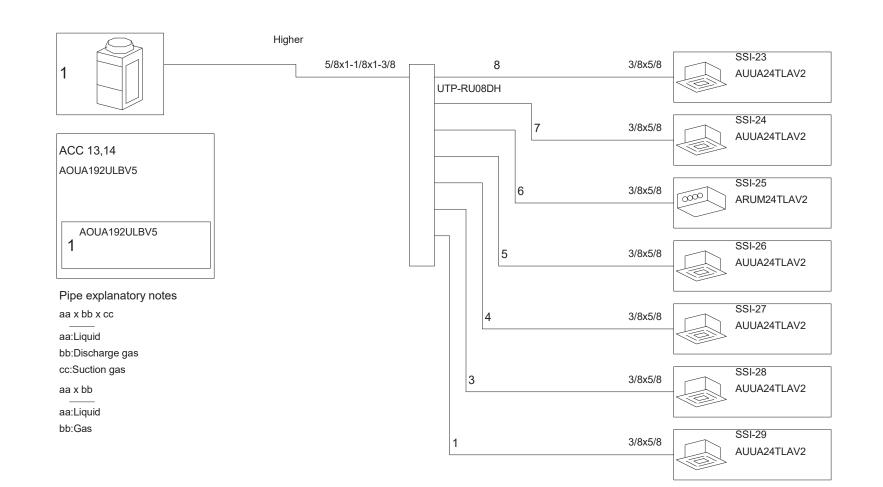


@ Specific installation rules may be applicable for piping multiple outdoor combinations. (e.g. rise setting for gas pipe).Refer to outdoor unit installation manual for specifics.

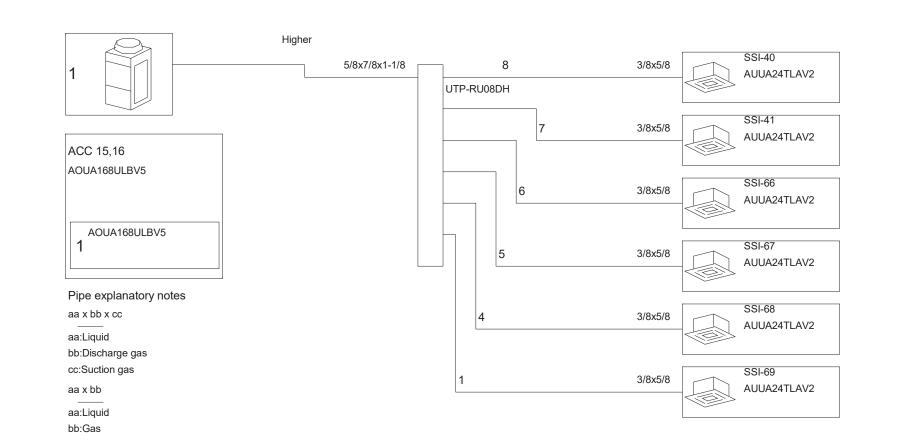




7 ACC-11,12 PIPING SCHEMATIC H600 NOT TO SCALE



8 ACC-13,14 PIPING SCHEMATIC H600 NOT TO SCALE







Newburgh, NY 12550

CPLteam.com



PROJECT INFORMATION

Project Number 14457.20

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 1: 2022 BOND

District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

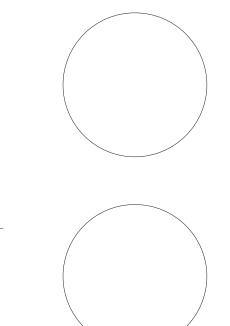
SOUTH ORANGETOWN CSD

| WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 |
| COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 |
| TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032 |
| WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020 |
| COTTAGE LANE S&L SED#: 50-03-01-06-0-012-020 |
| COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 |
| WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 |
| SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001 |
| TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001 |

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, INSURED OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR S ALTERCH, THE ALTERING

SHEET INFORMATION

Issued Scale
10/18/2023 NOT TO SCALE
Project Status
BID DOCUMENTS
Drawn By Checked By

KCM JJ.

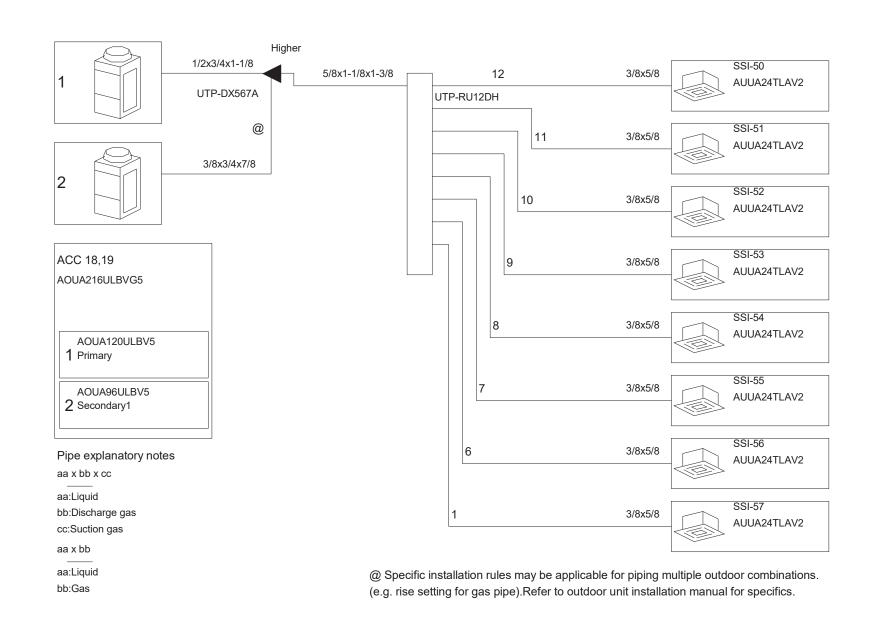
Drawing Title

VRF PIPING

er WOS

WOS H600 1 ACC-17 PIPING SCHEMATIC
H601 NOT TO SCALE

aa:Liquid



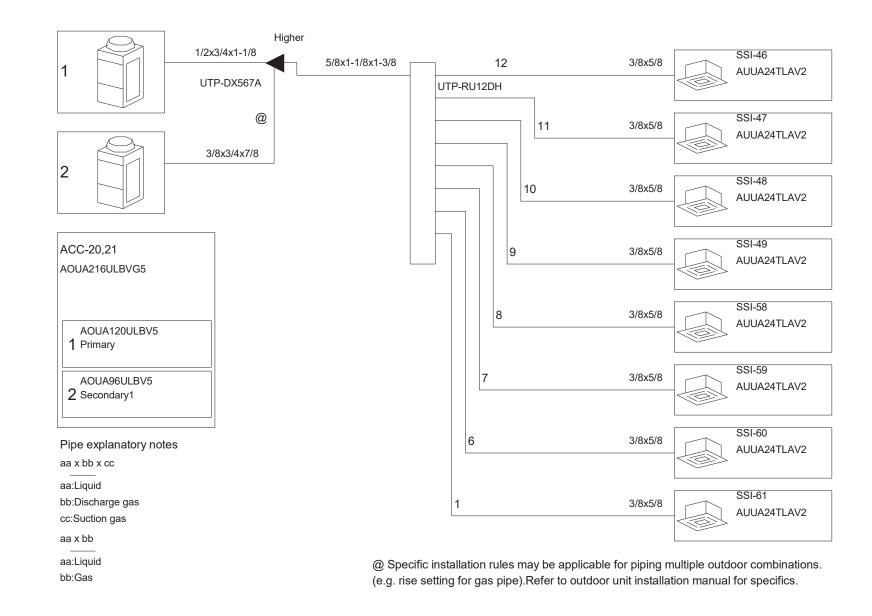
ACC-18,19 PIPING SCHEMATIC

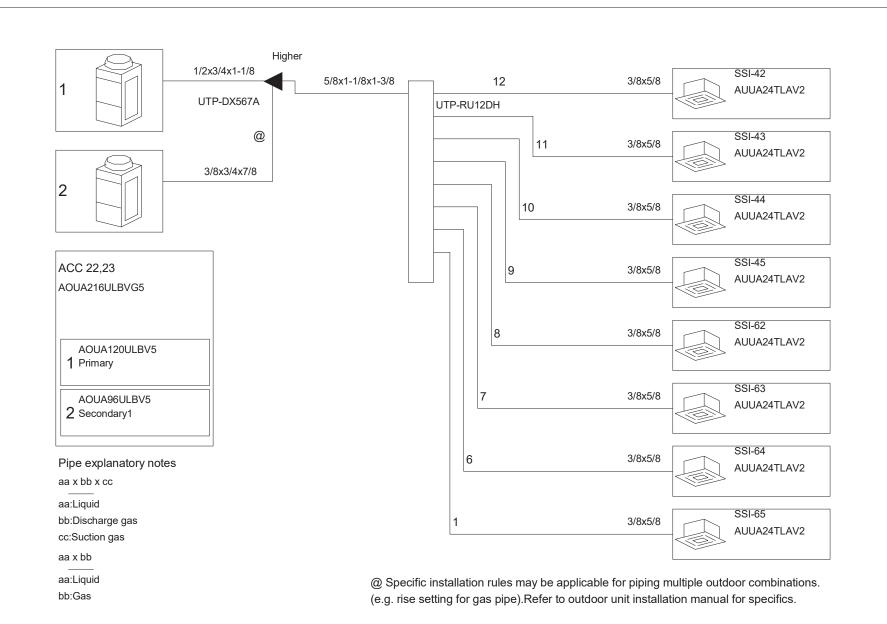
H601 NOT TO SCALE

ACC-20,21 PIPING SCHEMATIC

(3) H601

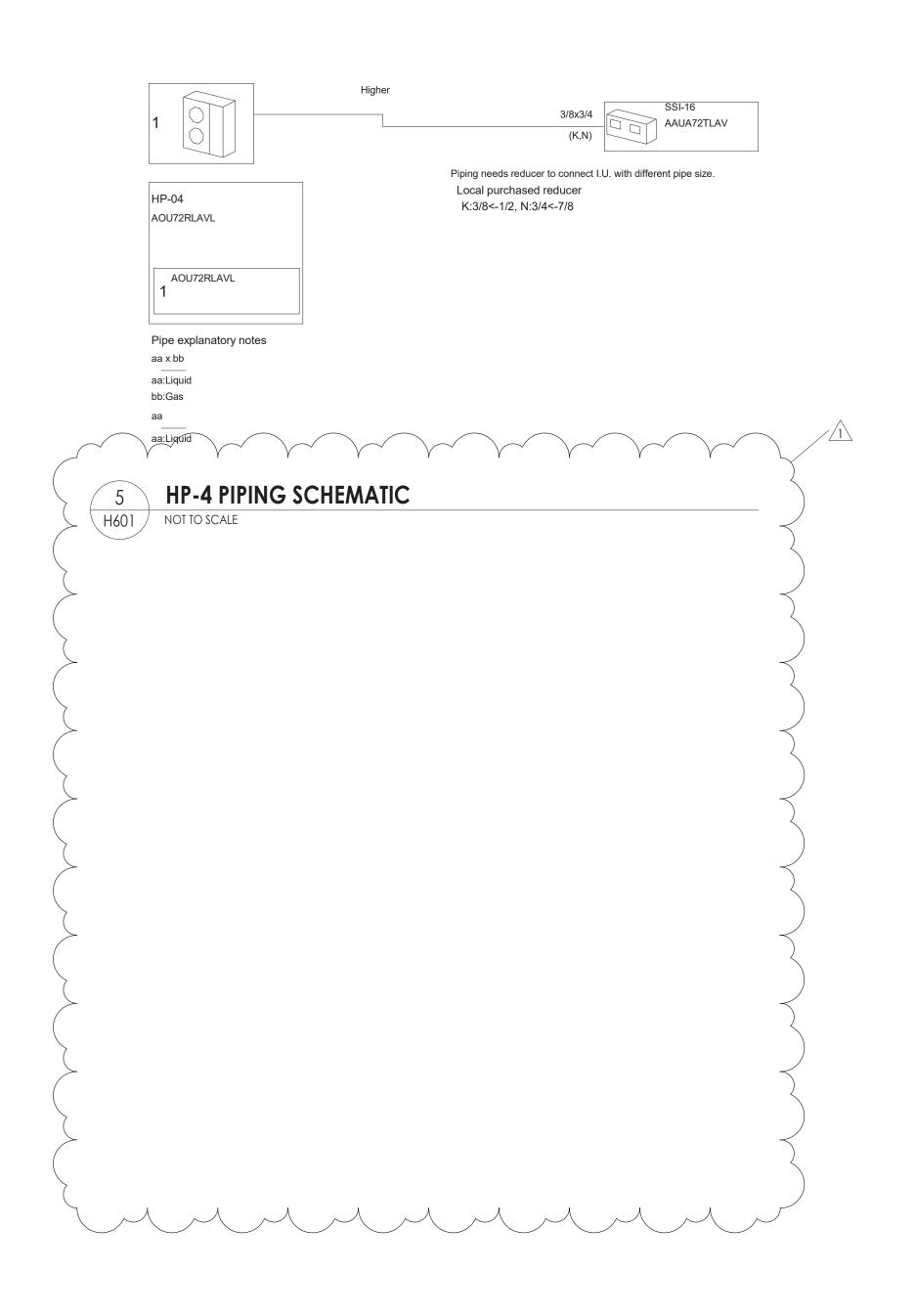
NOT TO SCALE





4 ACC-22,23 PIPING SCHEMATIC

H601 NOT TO SCALE





CPLteam.com



PROJECT INFORMATION

14457.20

Project Number

Client Name

SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT

Project Name
PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

■ WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019

□ COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022

□ TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032

□ WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020

□ COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023

□ COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002

□ WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001

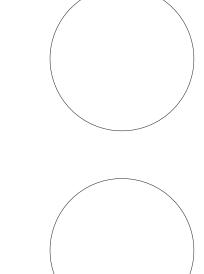
□ SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT

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BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE AIT
PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLO

Scale

NOT TO SCALE

SHEET INFORMATION

Issued
10/18/2023
Project Status
BID DOCUMENTS
Drawn By
KCM

Drawn By
Checked By
KCM
JJM
Drawing Title
VRF PIPING

Number WOS

						DX (COIL	SCHE	DULE							
	01122111	50//01	NOMINAI				COOLING	CAPACITY	/							
TAG LOCATION / SI SERVES			CAPACITY	TOTAL	SENS	EA	T°F	LA	Γ°F	ΔMR °E	MAX APD	MFG SIZE		ROWS	& MODEL NO.	NOTES
0220	(0.1)	(- /	(TON)	MBH	MBH	DB	WB	DB	WB	AIVID	(IN WC)		,			
ROOF / UDITERIA	5025	2700	20.3	243.2	170.2	84.0	69.2	55.0	54.5	93 / 75	0.83	9.93 SF	28.7 / 11.2	6	CARRIER 28ME	1,2
ROOF / YMNASIUM	5163	1800	18.2	217.9	152.5	81.2	67.2	55.0	54.5	93 / 75	0.37	14.34 SF	32.6 / 11.6	4	CARRIER 28ME	1,2
S F U	ROOF / JDITERIA ROOF /	ROOF / 5025 ROOF / 5027	ROOF / 5025 2700 ROOF / 5163 1800	CFM CAPACITY (TON) ROOF / 5025 2700 20.3 ROOF / 5163 1800 18.3	CATION / SUPPLY AIR DCV OA (CFM) CAPACITY (TON) TOTAL MBH ROOF / 5025 2700 20.3 243.2 ROOF / 5163 1800 18.2 217.0	CATION	CATION	CATION / SERVES SUPPLY AIR (CFM) DCV OA (CFM) CAPACITY (TON) TOTAL SENS BAT°F DB WB	CATION SUPPLY AIR (CFM)	CATION	CATION / SERVES SUPPLY AIR (CFM) DCV OA (CFM) CAPACITY (TON) TOTAL SENS MBH DB WB DB WB SENS DITERIA SENS DB WB SENS SENS DB WB SENS SE	CATION / SERVES SUPPLY AIR (CFM) DCV OA (CFM) CAPACITY (TON) TOTAL SENS MBH DB WB DB WB MAX APD (IN WC)	CATION / SUPPLY AIR (CFM)			

NOTES: 1. COORDINATE REFRIGERATION TYPE WITH CONDENSING UNIT 2. LOCATE IN EXISTING RTU, UPSTREAM OF SUPPLY FAN, DOWN STREAM FROM FILTERS.

MARK	UNIT SERVES	NUMBER OF BRANCHES AVAILABLE	NUMBER OF BRANCHES USED	MAX TOTAL CAPACITY (MBH)		CONNECTED TOTAL HEATING CAPACITY (MBH)		DIMENSIONS (H × W × D)	POWER (V/Ø/HZ)	POWER (WATTS)	TYPICAL UNIT MFG & MODEL NO.			
RBU-1	ACC-1,2	12	8	245	27	2592	2304	11" × 39" × 25"	208 / 230 / 1 / 60	339 W	UTP-RU12AH			
RBU-2	ACC-3,4	12	8	245	27	2592	2304	11" × 39" × 25"	208 / 230 / 1 / 60	339 W	UTP-RU12AH			
						<u> </u>		5						
RBU-4	ACC-6	8	8	245	27	1010.4	852	11" × 26" × 25"	208 / 230 / 1 / 60	226 W	UTP-RU08AH			
					9									
RBU-6	ACC-9,10	12	10	324	27	3240	2880	11" × 39" × 25"	208 / 230 / 1 / 60	339 W	UTP-RU12AH			
RBU-7	ACC-11,12	8	6	245	27	1944	1728	11" × 26" × 25"	208 / 230 / 1 / 60	226 W	UTP-RU08AH			
RBU-8	ACC-13,14	8	7	245	27	2268	2016	11" × 26" × 25"	208 / 230 / 1 / 60	226 W	UTP-RU08AH			
RBU-9	ACC-18,19	12	8	245	27	2592	2304	11" × 39" × 25"	208 / 230 / 1 / 60	339 W	UTP-RU12AH			
RBU-10	ACC-20,21	12	8	245	27	2592	2304	11" × 39" × 25"	208 / 230 / 1 / 60	339 W	UTP-RU12AH			
RBU-11	ACC-22,23	12	8	245	27	2592	2304	11" × 39" × 25"	208 / 230 / 1 / 60	339 W	UTP-RU12AH			
RBU-12	ACC-15,16	8	6	245	27	1944	1728	11" × 26" × 25"	208 / 230 / 1 / 60	226 W	UTP-RU08AH			
								\						

FAN SCHEDULE

Ì	TAG	LOCATION	SERVICE	TYPE	CFM	SP	RPM		ELECTRI	CAL DATA	\	TYPICAL UNIT MFG	NOTES:
-	TAG	LOCATION	SERVICE	TYPE	CFIVI	IN W.G.	KPIVI	HP	VOLTS	PHASE	AMPS	& MODEL NO.	NOTES:
	EF-1	ROOF	CRAWLSPACE	DOWNBLAST	2320	1.3	1725	1-1/2	208	1	11	GREEHECK G-140-A	1-2
_	EF-2	ROOF	TOILETS	DIRECT	900	0.3	959	1/4	115	1	3.8	GREEHECK G-120-VG	1-2 -

NOTES: 1. FACTORY MOUNTED AND WIRED DISCONNECT. 2. HINGED BASE AND BIRD SCREEN.

REGISTERS GRILLES AND DIFFUSERS

	KEG	io i Ero,	GKILLES	, AND	DIFFUSERS	
TAG	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	NOTES:
D-1	SUPPLY	STEEL	CEILING GRILLE	WHITE	PRICE 500	3
D-2	SUPPLY	STEEL	LAY-IN	WHITE	PRICE SPD	2,4
D-3	SUPPLY	STEEL	ROUND	WHITE	PRICE HCD	1
R-1	RETURN/EA	STEEL	CEILING GRILLE	WHITE	PRICE 510	3
R-2	RETURN/EA	STEEL	LAY-IN	WHITE	PRICE PDN	-
R-3	RETURN/EA	STEEL	LAY-IN	WHITE	PRICE PDDR	-
NOTEC	4 ODDOCED DLAF	DAMPED.			•	

NOTES: 1. OPPOSED BLADE DAMPER. 2. STANDARD AIR FLOW PATTERN.

3. SINGLE DEFLECTION, BLADES PARALLEL TO LENGTH.

4. INSULATED BACK PAN.

ENERGY RECOVERY UNIT

			SA/OA		D.4			SUPPLY	FAN			EΣ	(HAUST FA	N		LIEATING	FROOT	OPERATING		UNIT ELEC	CTRICAL
TAG	LOCATION	AREA SERVED	(CFM)	EA (CFM)	RA (CFM)	FAN TYPE	E.S.P.	RPM	BHP	HP	FAN	E.S.P.	RPM	ВНР	HP	HEATING TYPE	FROST CONTROL	WEIGHT (LBS)	FILTERS	REQUIRE	
						.,	(IN. WC)	1 (1 141	51	- "	TYPE	(IN. WC)		J				(LDO)		V/Ø/HZ	FLA
ERU-1	ROOF	CLASSROOMS	1885	1885	1885	PLENUM	1	1760	1.39	2	PLENUM	0.5	1562	0.77	2	ELECTRIC	YES	1554	2" PRE-FILTER/4" MERV 13	208/3/60	99
ERU-2	ROOF	CLASSROOMS	1620	1620	1620	PLENUM	1	1760	1.14	2	PLENUM	0.5	1454	0.61	2	ELECTRIC	YES	1524	2" PRE-FILTER/4" MERV 13	208/3/60	78
ERU-5	ROOF	CLASSROOMS	1120	1120	1120	PLENUM	1	1760	1.48	2	PLENUM	0.5	1760	0.85	2	ELECTRIC	YES	1510	2" PRE-FILTER/4" MERV 13	208/3/60	54
ERU-6	ROOF	CLASSROOMS	2120	2120	2120	PLENUM	1	1760	1.62	2	PLENUM	0.5	1635	8.0	2	ELECTRIC	YES	1554	2" PRE-FILTER/4" MERV 13	208/3/60	99
ERU-7	ROOF	CLASSROOMS	1230	1230	1230	PLENUM	1	1760	0.8	2	PLENUM	0.5	1633	0.4	1	ELECTRIC	YES	1510	2" PRE-FILTER/4" MERV 13	208/3/60	54
ERU-8	ROOF	CLASSROOMS	1260	1260	1260	PLENUM	1	1760	0.8	2	PLENUM	0.5	1626	0.4	2	ELECTRIC	YES	1510	2" PRE-FILTER/4" MERV 13	208/3/60	54
ERU-9	ROOF	CLASSROOMS	1990	1990	1990	PLENUM	1	1760	1.53	2	PLENUM	0.5	1608	0.84	2	ELECTRIC	YES	1554	2" PRE-FILTER/4" MERV 13	208/3/60	99
ERU-10	ROOF	CLASSROOMS	1690	1690	1690	PLENUM	1	1760	1.2	2	PLENUM	0.5	1481	0.65	2	ELECTRIC	YES	1554	2" PRE-FILTER/4" MERV 13	208/3/60	78
ERU-11	ROOF	CLASSROOMS	1680	1680	1680	PLENUM	1	1760	1.2	2	PLENUM	0.5	1481	0.65	2	ELECTRIC	YES	1554	2" PRE-FILTER/4" MERV 13	208/3/60	78
ERU-12	ROOF	CLASSROOMS	1300	1300	1300	PLENUM	1	1760	0.8	2	PLENUM	0.5	1321	0.4	1	ELECTRIC	YES	1510	2" PRE-FILTER/4" MERV 13	208/3/60	54
ERU-13	ROOF	CLASSROOMS	2240	2240	2240	PLENUM	1	1760	1.7	2	PLENUM	0.5	1684	0.9	2	ELECTRIC	YES	1554	2" PRE-FILTER/4" MERV 13	208/3/60	120

ENERGY RECOVERY UNIT (CONT.)

				W	INTER CON	DITIONS								SUMMER	R CONDITION	S				
	W	HEEL ENTERING	CONDITIONS		V	VHEEL LEAV	NG CONDITIC	NS	EFFECTIVENESS @	WH	IEEL ENTERI	NG CONDITI	ONS		WHEEL LEA	VING CONDITI	ONS	EFFECTIVENESS @	TYPICAL UNIT MFG	
TAG	OUT	SIDE AIR	RETU	RN AIR	SUPF	PLY AIR	EXHAU	IST AIR	WINTER DESIGN		IDE AIR	RETUI	RN AIR	SUPP	LY AIR	EXHA	JST AIR	SUMMER DESIGN	& MODEL NO.	NOTES
	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL %	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL %		
ERU-1	-7	-8	65	62	39.2	39.2	18.7	18.7	65.4	90	71	75	62	79.8	65.1	85	68.1	65.4	AAON RN-007-80-E60E14A	1,2,3,4
ERU-2	-7	-8	65	62	41.6	41.6	16.3	16.3	68.2	90	71	75	62	79.3	64.9	85.4	68.4	68.2	AAON RN-006-80-E60E13A	1,2,3,4
ERU-5	-7	-8	65	62	46.2	46.2	11.7	11.7	74.3	90	71	75	62	78.4	64.3	86.4	68.9	74.3	AAON RN-006-80-E60E12A	1,2,3,4
ERU-6	-7	-8	65	62	42	42	18.7	18.7	65.1	90	71	75	62	79.3	64.8	84.9	68.1	65.1	AAON RN-007-80-E60E14A	1,2,3,4
ERU-7	-7	-8	65	62	45.2	45.2	12.7	12.7	72.9	90	71	75	62	78.6	64.4	86.2	68.8	72.9	AAON RN-006-80-E60E12A	1,2,3,4
ERU-8	-7	-8	65	62	45.3	45.3	12.7	12.7	73.1	90	71	75	62	78.6	64.4	86.2	68.8	73.1	AAON RN-006-80-E60E12A	1,2,3,4
ERU-9	-7	-8	65	62	38.2	38.2	19.7	19.7	63.8	90	71	75	62	80	65.3	84.8	68	63.8	AAON RN-007-80-E60E14A	1,2,3,4
ERU-10	-7	-8	65	62	41	41	16.9	16.9	67.4	90	71	75	62	79.4	64.9	85.3	68.3	67.4	AAON RN-007-80-E60E13A	1,2,3,4
ERU-11	-7	-8	65	62	41	41	16.9	16.9	67.4	90	71	75	62	79.4	64.9	85.3	68.3	67.4	AAON RN-007-80-E60E13A	1,2,3,4
ERU-12	-7	-8	65	62	46.5	46.5	12.7	12.7	73.1	90	71	75	62	78.3	64.3	86.2	68.8	73.1	AAON RN-006-80-E60E12A	1,2,3,4
ERU-13	-7	-8	65	62	33.6	33.6	19.8	19.8	63.7	90	71	75	62	81	65.9	84.7	68	63.7	AAON RN-007-80-E60E15A	1,2,3,4

NOTES: 1. FACTORY MOUNTED AND WIRED DISCONNECT. 2. FRESH AIR AND EXHAUST DAMPERS.

3. TERMINAL STRIP FOR BMS CONTROL OF FAN AND DAMPERS.

4. DIRTY FILTER SENSORS.

ENERGY RECOVERY UNIT (CONT.)

									-110111	LOOVLINI	01411 (CON	-)						
1										COOLING	i		REH	EAT			HEA	TING	
	TAG	TYPE	FINS PER INCH	ROWS	FACE VEL	COIL PD	REF.	COMP QTY	TOTAL CAPACITY (MBH)	SENSIBLE (MBH)	EAT(F)	LAT(F)	CAPACITY (MBH)	LAT(F)	OAT(F)	RAT(F)	EAT(F)	TOTAL CAPACITY (MBH)	INPUT kW
	ERU-1	AIR TO AIR	14	3	221	0.12	R410A	1	105	52.9	79.8	55.2	34	70/59	-7.0	65	39.2	102.4	30
	ERU-2	AIR TO AIR	14	3	190	0.09	R410A	1	93.2	46.1	79.3	54.4	31	70/58.7	-7.0	65	41.6	76.8	22.5
7	ERU-5	AIR TO AIR	14	3	131		R410A	1	79.6	37.8	78.4/64.3	48.2/47	28	70/56.3	-7.0	65	46.2	51.2	15
\forall	ERU-6	AIR TO AIR	14	3	249	0.14	R410A	1	106	55.7	79.3	54.5	35	70/59.4	-7.0	65	42.1	102.4	30
	ERU-7	AIR TO AIR	14	3	144	0.06	R410A	1	83	39.7	78.6	49.8	29	70/56.9	-7.0	65	45.2	68.3	20
, [ERU-8	AIR TO AIR	14	3	143	0.06	R410A	1	82.7	39.6	78.6	49.6	29	70/56.8	-7.0	65	45.3	51.2	15
\int	ERU-9	AIR TO AIR	14	3	233	0.12	R410A	1	107	54.4	80	56.2	34	70/59.3	-7.0	65	38.2	102.4	30
	ERU-10	AIR TO AIR	14	3	198	0.1	R410A	1	100	49.7	79.4	53.6	33	70/58.3	-7.0	65	41	76.8	22.5
	ERU-11	AIR TO AIR	14	3	197	0.1	R410A	1	100	49.7	79.4	53.6	33	70/58.3	-7.0	65	41	76.8	22.5
	ERU-12	AIR TO AIR	14	3	152	0.07	R410A	1	83.4	40.9	78.3	50.4	30	70/57.1	-7.0	65	46.5	51.2	15
\preceq	ERU-13	AIR TO AIR	14	3	261	0.14	R410A	1	109	58.6	81	58.1	34	70/60.2	-7.0	65	33.7	128	37.6

	ENEF	RGY R	ECOV	ERY L	JNIT (C	ONT.)	
			OCTAVE	BAND AND	CENTER FR	EQUENCY (HZ)
SOUND	4	0	2	4	_		Г

- 1					OOTAVE	DAIND AIND	OLIVILIVIIV	LQULINCI (IIZ	,	
,	TAG	SOUND SOURCE	1	2	3	4	5	6	7	8
		SOUNCE	62.5	125	250	500	1000	2000	4000	8000
	EDII 4	DISC.	84	83	86	81	73	71	68	63
	ERU-1	INLET	82	81	78	71	69	67	64	60
,	EDIL 0	DISC.	83	814	84	79	72	69	67	61
\rightarrow	ERU-2	INLET	80	79	76	69	67	65	61	57
	EDIL 6	DISC.	85	83	86	82	74	72	69	63
	ERU-5	INLET	83	81	78	72	70	68	64	60
	EDIL C	DISC.	85	83	87	83	75	72	70	64
	ERU-6	INLET	83	82	79	73	71	68	64	60
	EDIL 7	DISC.	80	79	81	77	70	67	64	59
,	ERU-7	INLET	80	79	75	69	69	67	64	60
\prec	EDIL 0	DISC.	80	79	81	77	70	67	64	59
	ERU-8	INLET	80	79	75	69	69	67	64	60
	EDILO	DISC.	85	83	87	82	75	72	69	63
	ERU-9	INLET	83	81	78	72	70	68	64	60
	EDII 40	DISC.	83	82	84	80	72	70	67	61
	ERU-10	INLET	81	79	76	69	67	65	62	58
, _	ERU-11	DISC.	83	82	84	79	72	70	67	61
	ENU-11	INLET	81	79	76	69	67	65	62	58
	ERU-12	DISC.	80	78	81	78	70	68	64	59
	L1\U-12	INLET	78	76	72	65	64	63	59	55
, -	ERU-13	DISC.	85	84	88	84	75	73	70	65
Ĺ	L110-10	INLET	83	83	80	74	71	69	66	62

ENERGY RECOVERY UNITS

															•							
				0.4		D.A		SUPPLY	FAN			EXHAUS	ST FAN		TOTAL MOU	TOTAL MOU	OPERATING		ELECTI	RICAL	TVDIOAL LINUT MEO	
	TAG	LOCATION	AREA SERVED	SA (CFM)	EA (CFM)	(CFM)	EAN TYPE	E.S.R (IN. WC)	WATTS	HP	FAN	E.8.P. (IN. WC)	WATTS	MP	TOTAL MBH SAVED SUMMER	TOTAL MBH SAVED WINTER	WEIGHT (LBS)	FILTERS	REQUIRE V/Ø/HZ/	MENTS MCA	TYPICAL UNIT MFG & MODEL NO.	NOTES:
		Υ	Υ Υ	Υ	Υ	Υ	Υ	(IIV. VVC)/	Υ		η ''' - '	(114. 440)	Y	Υ	ΥΥΥ	Y	(===) γ	Y	νιωιπΖγ	ΙνίζΑ γ	Υ	1
$\left\langle \right $	ERU-3	ROOF	В	850	850	850	DIRECT	0.5	238	0.5	DIRECT	0.5	284	0.5	15.1	35.9	243-346	MERV 8	208/1/60	10.8	RENEWAIRE HE-1XJRTV-S15EE	1,2,3,4
	ERU-4	ROOF	В	655	655	655	DIRECT	0.5	238	0.5	DIRECT	0.5	284	0.5	15.1	35.9	243-346	MERV 8	208/1/60	10.8	RENEWAIRE HE-1XJRTV-S15EE	1,2,3,4
N	OIES:	1. FACTORY	MOUNTED AND W	IRED DISCON	NEET.																	

2. FRESH AIR AND EXHAUST DAMPERS.

3. TERMINAL STRIP FOR BMS CONTROL OF FAN AND DAMPERS.

4. DIRTY FILTER SENSORS.

CPL | Architecture Engineering Planning 50 Front Street Suite 202, Newburgh, NY 12550

CPLteam.com

PROJECT INFORMATION

14457.20

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

160 VAN WYCK RD. BLAUVELT, NY 10913

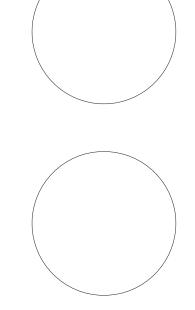
SOUTH ORANGETOWN CSD WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032 WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020 COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001 CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROFESSIONAL STAMPS



SHEET INFORMATION

Drawing Title

Issued 10/18/2023 12" = 1'-0" Project Status BID DOCUMENTS Drawn By KCM

MECHANICAL SCHEDULES

						VRF IN	IDOOR UNIT	'S						
MARK	ROOM SERVED	TYPE	AIRFLOW (H/M/L) CFM	OUTDOOR AIRFLOW CFM	ESP (INWG)	NOM. HEATING CAPACITY MBH	NOM. COOLING CAPACITY MBH	DIMENSIONS (H" X W" X D")	WEIGHT (LBS)	POWER (V/Ø/Hz)	MOCP	FLA	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
SSI-1	KINDERGARTEN	CEILING CASSETTE	607/465/330	-	- (114476)	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-2	RM 32 KINDERGARTEN	CEILING	607/465/330	_	_	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-3	RM 32 KINDERGARTEN	CASSETTE	607/465/330	_	_	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-4	RM 21 KINDERGARTEN	CASSETTE	607/465/330	_	_	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-5	RM 21 KINDERGARTEN	CASSETTE CEILING	607/465/330	_	_	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-6	RM 19 KINDERGARTEN	CASSETTE	607/465/330	-		27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-7	RM 19 KINDERGARTEN	CASSETTE	607/465/330	-	-									
	RM 17 KINDERGARTEN	CASSETTE		-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-8	RM 17	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-9	FIRST GRADE RM 15	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-10	FIRST GRADE RM 15	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-11	LIBRARY RM 5	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-12	LIBRARY RM 5	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-13	LIBRARY RM 5	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-14	LIBRARY RM 5	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
\$\$I-15	LIBRARY RM 5	CEILING CASSETTE	607/465/330	-		27	24	23 X 23 X 10	44	208/1/60	15_	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-16														
SSI-17	MAKERSPACE RM 3	CEILING CASSETTE	607/465/330			27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSÚ AUUA24TLAV2	1-8
SSI-18	MAKERSPACE RM 3	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-19	1ST GRADE RM 1	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-20	1ST GRADE RM 1	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-21	KINDERGARTEN RM 104	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-22	KINDERGARTEN RM 104	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-23	OT/PT RM 105	CEILING	607/465/330	-	_	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-24	OT/PT RM 105	CASSETTE	607/465/330	_	_	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-25	OFFICES M1/M2/M3	DUCTED	860/760/648	60	_	27	24	52 X 32 X 12	104	208/1/60	15	0.88	FUJITSU ARUM24TLAV2	1-5
SSI-26	KINDERGARTEN	CEILING	607/465/330	00		27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
	RM 103 KINDERGARTEN	CASSETTE		-	-									
SSI-27	RM 103 KINDERGARTEN	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-28	RM 102 KINDERGARTEN	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-29	RM 102 KINDERGARTEN	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-30	RM 101	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-31	KINDERGARTEN RM 101	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-32	SPECIAL ED RM 100	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-33	SPECIAL ED RM 100	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-34	1ST GRADE RM 2	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-35	1ST GRADE RM 2	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-36	1ST GRADE RM 4	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-37	1ST GRADE RM 4	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-38	1ST GRADE RM 6	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-39	1ST GRADE RM 6	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-40	MUSIC RM 62	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-41	MUSIC RM 62	CASSETTE CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-42	2ND GRADE RM 64	CEILING	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-43	2ND GRADE RM 64	CASSETTE	607/465/330	_	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-44	2ND GRADE RM 66	CASSETTE	607/465/330	_	_	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-45	2ND GRADE RM 66	CASSETTE	607/465/330	_	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
		CASSETTE												
SSI-46	2ND GRADE RM 68	CASSETTE CEILING	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-47	2ND GRADE RM 68	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-48	1ST GRADE RM 70	CASSETTE CEILING	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-49	1ST GRADE RM 70	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-50	2ND GRADE RM 72	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5
SSI-51	2ND GRADE RM 72	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5

						VRF IN	DOOR UN	ITS							
MAR	K ROOM SERVED	TYPE	AIRFLOW (H/M/L) CFM	OUTDOOR AIRFLOW CFM	ESP (INWG)	NOM. HEATING CAPACITY MBH	NOM. COOLING CAPACITY MBH	DIMENSIONS (H" X W" X D")	WEIGHT (LBS)	POWER (V/Ø/Hz)	MOCP	FLA	TYPICAL UNIT MFG & MODEL NO.	REMARKS:	
SSI-5	2 ART RM 74	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-5	3 ART RM 74	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-5	4 1ST GRADE RM 71	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-5	5 1ST GRADE RM 71	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-5	6 1ST GRADE RM 69	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-5	7 1ST GRADE RM 69	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	-
SSI-5	8 2ND GRADE RM 67	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-5	9 2ND GRADE RM 67	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-6	0 2ND GRADE RM 65	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-6	1 2ND GRADE RM 65	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	-
SSI-6	2 2ND GRADE RM 63	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-6	3 2ND GRADE RM 63	CASSETTE CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	-
SSI-6	4 1ST GRADE RM 61	CASSETTE CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	-
SSI-6	5 1ST GRADE RM 61	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	-
SSI-6	6 2ND GRADE RM 59	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-6	7 2ND GRADE RM 59	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-6	8 2ND GRADE RM 57	CASSETTE CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	-
SSI-6	9 2ND GRADE RM 57	CASSETTE CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	-
SSI-7	0 STAFF LOUNGE	CEILING	418/348/271	-	_	20	18	23 X 23 X 10	44	208/1/60	15	0.41	FUJITSU AUUA18TLAV2	1-5	-
SSI-7	RIVI 5 I	CASSETTE	353/306/253	-	-	13.5	12	23 X 23 X 10	42	208/1/60	15	0.41	FUJITSU AUUA12TLAV2	1-5	
SSI-7		CASSETTE	312/265/230	_	-	4.4	4	23 X 23 X 10	40	208/1/60	15	0.23	FUJITSU AUUA4TLAV2	1-5	
SŞI-7		CASSETTE CEILING	318/271/230			9.5	7.5	23-X-23 X 10	40	208/1/60		0.41		1-5	-
SSI-7		VENTILATION	989/742/495	600	_	47	72	60 X 27 X 20	139	208/1/60	15	_	FUJITSU AAUA72TLAV	1-5	_
SSI-7	COACH OFFICE	UNIT	318/271/230	_	_	9.5	7.5	23 X 23 X 10	40	208/1/60	15	0.41	FUJITSU AUUA7TLAV2	1-5	1
SSI-7	RIVI 39	CASSETTE CEILING	318/271/230	_	_	9.5	7.5	23 X 23 X 10	40	208/1/60	15	0.41	FUJITSU AUUA7TLAV2	1-5	$ egthinspace{2mm} egt$
SSI-7		CASSETTE	418/348/271	_	_	20	18	23 X 23 X 10	44	208/1/60	15	0.41	FUJITSU AUUA18TLAV2	1-5	1
SSI-7	<u>λ</u>	CASSETTE	312/265/230			4.4	10	23 X 23 X 10	40~	208/1/60	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.41	FUJITSO AUUA4TLAV2	1-5	
SSI-7		CASSETTE CEILING	324/283/236			10.9	9.5	23 X 23 X 10		208/1/60		0.41	FUJITSU AUUA9TLAV2	1-5	-
SSI-7		CASSETTE CEILING	324/283/236	-	-	10.9	9.5		40	208/1/60	15				_
SSI-8		CASSETTE CEILING		-	-	9.5		23 X 23 X 10	40		15	0.41	FUJITSU AUUA9TLAV2	1-5	
		CASSETTE CEILING	318/271/230		-		7.5	23 X 23 X 10	40	208/1/60	15	0.41	FUJITSU AUUA7TLAV2	1-5	-
SSI-8	DM 46, 460 27A, 9	CASSETTE VENTILATION	318/271/230	655		9.5	7.5	23 X 23 X 10		208/1/60	$\overline{}$	0.41		1-5	
SSI-8	37B, 38 OFFICE	UNIT	989/742/495	655	-	47	72	60 X 27 X 20	139	208/1/60	15	- 4 00	FUJITSU AAUA72TLAV	1-5	1
SSI-8	20/22/23/23A/23B	DUCTED	1113/954/766	250	0.6	40	36	52 X 32 X 12	104	208/1/60	15	1.39	FUJITSU ARUM36TLAV2	1-5	
SSI-8	RM 24	CASSETTE CEILING	607/465/330	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		27	24	23 X 23 X 10	44	208/1/60	15_	0.62	FUJITSÚ AUUA24TLAV2	1-5	-
SSI-8	RM 24	CASSETTE CEILING	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	-
SSI-8	RM 26	CASSETTE CEILING	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	-
SSI-8	8 RM 26	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-8	RIVI 30	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	
SSI-9	0 KINDERGARTEN RM 30	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	208/1/60	15	0.62	FUJITSU AUUA24TLAV2	1-5	

3. COLOR WHITE.

NOTES: 1. FACTORY MOUNTED DISCONNECT

3. LOW AMBIENT TEMPERATURE KIT

5. CONDENSATE PUMP.

4. DRAIN PAN LEVEL SESORS.

2. 95°F OUTDOOR TEMPERATURE IN COOLING (DRY BULB), 10°F OUTDOOR TEMPERATURE IN HEATING(DRY BULB)

					SPL	IT SYS	STEM O	UTDOC	R CON	IDENSIN	G UNIT S	SCHE	EDU	LE				
					RATED	RATED	TOTAL	TOTAL		ELECTR	ICAL DATA							
NAME	LOCATION	SERVES	EER	СОР	COOLING CAPACITY	HEATING CAPACITY	COOLING CAPACITY	HEATING CAPACITY	POWER (Ø/V/Hz)	RATED CURRENT IN COOLING	RATED CURRENT IN HEATING	MCA	MFA	DIMENSIONS (H X W X D)	WEIGHT	MANUF.	MODEL	NOTES
					(TON)	(TON)	(TON)	(TON)	, ,	(A)	(A)	(A)	(A)	(INCH)	(LBS)			
ACC-1,2,	ROOF	SSI-1, SSI-2, SSI-3, SSI-4, SSI-5,	10.0	3.47	18	20.25	13	14.19	3/208/60	21.69	26.71	81.6	50	66-9/16 X 36-5/16 X 30-1/8	569	FUJITSU	AOUA120ULBV5	1,2,3
ACC-1,2,	ROOF	SSI-6, SSI-89, SSI-90	10.9	3.47	10	20.25	13	14.19	3/208/60	17.64	19.4	01.0	60	66-9/16 X 48-13/16 X 30-1/8	622	1 031130	AOUA96ULBV5	1,2,3
ACC-3,4	RQOF	\$\$I-7, \$\$I-8, \$\$I-9, \$\$I-10,	10 9	3.47	18	20.25		14.19	3/208/60	21.69	26.71	81.6	50	66-9/16 X 36-5/16 X 30-1/8	569	FUXTSU	AOUA120ULBV5	1,2,3
7,00-0,4	ROOF	SSI ₇ 85, SSI-86, SSI-87, SSI-88	70.5	V-7/	10 /	20.20		7 14.18	3/208/60	17.64	19.4	Y	60	√ 66-9/16 X 48-13/16 X 30-1//8	622	1 001100	AOVA96ULBV5	1,2,0
ACC-5	ROOF	SSI-74	11	3.48	16	18	12.88	8.4	3/208/60	14.83	13.94	71	40	64-1/2 X 42-1/2 X 18-7/8	469.6	FUJITSU	AOU72RLAVL	1,2,3
ACC-6	ROOF	SSI-75, SSI-76, SSI-77, SSI-78, SSI-79, SSI-80, SSI-81, SSI-82, SSI-84	14.9	4.42	6	6.75	3.64	4.83	3/208/60	17.64	19.4	29.3	60	66-9/16 X 48-13/16 X 30-1/8	622	FUJITSU	AOUA96ULBV5	1,2,3
ACC-7,8	ROOF	SSI-11, SSI-12, 8SI-13, SSI-14, SSI-15	14,4^	4.07	12	13.5	8.17	9.67	3/208/60	24.36	28.25	49.8	60	66-9716 x 63 x 30-178	937	FUJITSU	AOUA144ULBV5	1,2,3
1000110	DOOF	SSI-17, SSI-18, SSI-19, SSI-20, SSI-34,	44.7	0.50	00	04.75	45.00	47.70	3/208/60	24.36	28.25	00.7	60	66-9/16 x 63 x 30-1/8	937	FILLITOLI	AOUA144ULBV5	1,2,3
ACC-9,10	ROOF	SSI-35, SSI-36, SSI-37, SSI-38, SSI-39	11.7	3.52	22	24.75	15.89	17.72	3/208/60	21.69	26.71	93.7	50	66-9/16 X 36-5/16 X 30-1/8	569	FUJITSU	AOUA120ULBV5	1,2
ACC-11,12	ROOF	SSI-21, SSI-22, SSI-30, SSI-31, SSI-32, SSI-33	12.2	3.78	14	15.67	9.62	10.78	3/208/60	33.49	35.83	59.8	70	66-9/16 X 63 X 30-1/8	937	FUJITSU	AOUA168ULBV5	1,2,3
ACC-13,14	ROOF	SSI-23, SSI-24, SSI-25, SSI-26, SSI-27, SSI-28, SSI-29	11	3.48	16	18	11	12.72	3/208/60	43.54	45.08	71	80	66-9/16 x 63 x 30-1/8	937	FUJITSU	AOUA192ULBV5	1,2,3
ACC-15,16	ROOF	SSI-40, SSI-41, SSI-66, SSI-67, SSI-68, SSI-69	12.2	3.78	14	15.67	9.62	10.78	3/208/60	33.49	35.83	59.8	70	66-9/16 X 63 X 30-1/8	937	FUJITSU	AOUA168ULBV5	1,2,3
ACC-17	ROOF	SSI-70, SSI-71, SSI-72, SSI-73	12.5	3.88	4	4.5	2.83	3.43	1/208/60	16.38	17.44	29.8	30	52-1/2 X 38-3/16 X 14-9/16	265	FUJITSU	AOU48RLAVM4	1,2,3
100 10 10	ROOF	SSI-50, SSI-51, SSI-52, SSI-53, SSI-54,	40.0	3.47	40	00.05	40.07	44.04	3/208/60	21.69	26.71	04.0	50	66-9/16 X 36-5/16 X 30-1/8	569	FILLITOLI	AOUA120ULBV5	400
ACC-18,19	ROOF	SSI-55, SSI-56, SSI-57	10.9	3.47	18	20.25	12.37	14.01	3/208/60	17.64	19.4	81.6	60	66-9/16 X 48-13/16 X 30-1/8	622	FUJITSU	AOUA96ULBV5	1,2,3
ACC-20,21	ROOF	SSI-46, SSI-47, SSI-48, SSI-49, SSI-58,	10.9	3.47	18	20.25	13	14.19	3/208/60	21.69	26.71	81.6	50	66-9/16 X 36-5/16 X 30-1/8	569	FUJITSU	AOUA120ULBV5	1,2,3
ACC-20,21	ROOF	SSI-59, SSI-60, SSI-61	10.9	3.47	10	20.25	13	14.19	3/208/60	17.64	19.4	01.0	60	66-9/16 X 48-13/16 X 30-1/8	622	1 031130	AOUA96ULBV5	1,2,3
ACC 22,23	ROOF	SSI-42, SSI-43, SSI-44, SSI-45, SSI-62,	10.9	3.47	18	20.25	13	14.19	3/208/60	21.69	26.71	81.6	50	66-9/16 X 36-5/16 X 30-1/8	569	FUJITSU	AOUA120ULBV5	1,2,3
7,00 22,20	ROOF	SSI-63, SSI-64, SSI-65	10.5	0.47	10	20.20	10	14.15	3/208/60	17.64	19.4	01.0	60	66-9/16 X 48-13/16 X 30-1/8	622	1 001100	AOUA96ULBV5	1,2,0
SSO-1	HIGH ROOF	DX COIL	10.4	-	25	-	264.7	-	3/208/60	-	-	120.2	150	66.5 × 40.3 × 88.2	1095	CARRIER	38APD0255H	1,2
\SSO-2	HIGH ROOF	DX COIL	10.6	7	20	-	224.3	-	3/208/60			74.8	100	50.4 × 67.1 × 86.1	978	CARRIER/	38AUDT25	1,2
HP-05																		
HP-04	ROOF	\$\frac{16}{5}\frac{16}{5}\frac{1}	12.1/	4.19	10	6.75	6.88	6.07	3/208/60	14.83	13.94	38	40	64-1/2 X 42-1/2 X 18-7/8	469.6	FUJITSU	AOU72RLAVIL	1,2,3
NOTEC:	4 FAOTODY	MOUNTED DIOCOMMENT	I					1	1	1	1	1			1		1	

CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550

CPLteam.com



PROJECT INFORMATION

Project Number 14457.20

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

Project Name
PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

■ WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019

□ COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022

□ TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032

□ WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020

□ COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023

□ COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002

□ WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

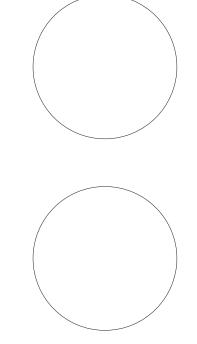
□ CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

□ TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISS
REGULATIONS FOR ANY PERSON, UNILESS ACTING UNDER THE DIRECTION OF A LIE
APCHIECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY,
BEARING THES MEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS A LITERED. THE,
PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED SITE
THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIP

ALTERATION.

Issued Scale
10/18/2023 NOT TO SCALE

Project Status
BID DOCUMENTS
Drawn By
KCM

Drawing Title

MECHANICAL SCHEDULES

WOS H901

	SPACE NAME	HVAC SYSTEM	SPACE MAXIMUM SUPPLY (CFM)	FLOOR AREA (SQ FT)	OCCUPANT DENSITY (PERSON/SQ FT)	TOTAL OCCUPANCY FOR VENTILATION (PEOPLE/1000 SQ FT)	PEOPLE OUTDOOR AIRFLOW RATE (CFM/PERSON)	AREA OUTDOOR AIRFLOW RATE (CFM/SQ FT)	EXHAUST AIRFLOW RATE (CFM/SQ FT)	AIR DISTRIBION EFFECTIVENESS	BREATHING ZONE OUTDOOR AIR (CFM)	ZONE OUTDOOR AIRFLOW (CFM)	ADJUSTE CFM
ROOM#	CLASSIFICATION		Vpz	Az	A		Rp	Ra		Ez	Vbz	Voz	
1	CLASSROOMS (5-8)	SSI-19,20	425	891 SF	25	23	10.0	0.12	-	0.8	337	422	425
2	CLASSROOMS (5-8)	SSI-34,35	425	891 SF	25	23	10.0	0.12	-	0.8	337	422	425
3 4	CLASSROOMS (5-8)	SSI-17,18	425	885 SF 888 SF	25	23	10.0	0.12	-	0.8	336	421	425
5	CLASSROOMS (5-8) LIBRARY	SSI-36,37 ERU-5	425 240	1099 SF	25 10	23 11	10.0 5.0	0.12 0.12	-	0.8	337 187	421 234	425 240
5A	LIBRARY	ERU-5	190	882 SF	10	9	5.0	0.12	_	0.8	151	189	190
6	CLASSROOMS (5-8)	SSI-38,39	420	882 SF	25	23	10.0	0.12	_	0.8	336	420	420
15	CLASSROOMS (5-8)	SSI-9,10	405	857 SF	25	22	10.0	0.12	-	0.8	323	404	405
16	OFFICE SPACES	SSI-77	55	464 SF	5	3	5.0	0.06	-	0.8	43	54	55
16B	SICKROOM	SSI-78	50	66 SF	25	2	10.0	0.18	-	0.8	32	40	50
17	CLASSROOMS (5-8)	SSI-7,8	405	857 SF	25	22	10.0	0.12	-	0.8	323	404	405
19	CLASSROOMS (5-8)	SSI-5,6	405	857 SF	25	22	10.0	0.12	-	0.8	323	404	405
20	OFFICE SPACES	SSI-84	250	228 SF	5	2	5.0	0.06	-	0.8	24	30	50
21	CLASSROOMS (5-8)	SSI-3,4	480	1025 SF	25	26	10.0	0.12	-	0.8	383	479	480
22	OFFICE SPACES	SSI-84	150	104 SF	5	1	5.0	0.06	-	0.8	11	15	50
23 23A	OFFICE SPACES OFFICE SPACES	SSI-84 SSI-84	240	266 SF 142 SF	5	2	5.0 5.0	0.06	-	0.8	26 14	33 17	50 50
23A 23B	OFFICE SPACES OFFICE SPACES	SSI-84	200	142 SF	5	1	5.0	0.06	-	0.8	14	17	50
24	CLASSROOMS (5-8)	SSI-85,86	405	857 SF	25	22	10.0	0.00	-	0.8	323	404	405
26	CLASSROOMS (5-8)	SSI-87,88	405	857 SF	25	22	10.0	0.12	_	0.8	323	404	405
30	CLASSROOMS (5-8)	SSI-89.90	520	1105 SF	25	28	10.0	0.12	_	0.8	413	516	520
32	CLASSROOMS (5-8)	SSI-1,2	480	1025 SF	25	26	10.0	0.12	-	0.8	383	479	480
37A	CLASSROOMS (5-8)	SSI-79,80	280	600 SF	25	15	10.0	0.12	-	0.8	222	278	280
37B	CLASSROOMS (5-8)	SSI-81,82	170	356 SF	25	9	10.0	0.12	-	0.8	133	166	170
38	OFFICE SPACES	SSI-76	50	309 SF	5	2	5.0	0.06	-	0.8	29	36	50
39	OFFICE SPACES	SSI-75	50	261 SF	5	2	5.0	0.06	-	0.8	26	33	50
42	OFFICE SPACES	SSI-72	50	141 SF	5	1	5.0	0.06	-	0.8	13	17	50
44	CLASSROOMS (5-8)	SSI-71	185	377 SF	25	10	10.0	0.12	-	0.8	145	182	185
51	BREAK ROOMS	SSI-70	105	369 SF	30	12	5.0	0.06	-	0.8	82	103	105
57	CLASSROOMS (5-8) CLASSROOMS (5-8)	SSI-68,69	425	898 SF	25	23	10.0	0.12	-	0.8	338	423 420	425
59	CLASSROOMS (5-8)	SSI-66,67 SSI-64,65	420	882 SF 882 SF	25	23	10.0	0.12		0.8	336	420	420 420
62 Y	MUSIC/THEATER/DANCE	SSI-40,41	γ 455	882 SF	γ 25 35	γ 23γ 31	10.0	0.06	Y - Y	0.8	γ 363	454	γ 425 455
63 ~ 🗸	CLASSROOMS (5-8)	SS 1-62,63 ~ /	420	882 SA	25 ~	23\	人 10.Q 人	~ Ø\12 ~	7 - 7	0.8	336	420	420
64	CLASSROOMS (5-8)	SSI-42,43	420	882 SF	25	23	10.0	0.12		0.8	336	420	420
65	CLASSROOMS (5-8)	SSI-60,61	420	882 SF	25	23	10.0	0.12	-	0.8	336	420	420
66	CLASSROOMS (5-8)	SSI-44,45	420	882 SF	25	23	10.0	0.12	-	0.8	336	420	420
67	CLASSROOMS (5-8)	SSI-58,59	425	889 SF	25	23	10.0	0.12	-	0.8	337	421	425
68	CLASSROOMS (5-8)	SSI-46,47	420	882 SF	25	23	10.0	0.12	-	0.8	336	420	420
69	CLASSROOMS (5-8)	SSI-56,57	425	891 SF	25	23	10.0	0.12	-	0.8	337	422	425
70	CLASSROOMS (5-8)	SSI-48,49	425	889 SF	25	23	10.0	0.12	-	0.8	337	421	425
71	CLASSROOMS (5-8)	SSI-54,55	425	891 SF	25	23	10.0	0.12	-	0.8	337	422	425
72	CLASSROOMS (5-8)	SSI-50,51	425	891 SF	25	23	10.0	0.12	-	0.8	337	422	425
74	ART CLASSROOM	SSI-52,53	715	891 SF	20	18	10.0	0.18	0.70	0.8	340	713	715
80C	OFFICE SPACES	SSI-73	50	186 SF	5	1	5.0	0.06	-	0.8	16	21	50
100	CLASSROOMS (5-8)	SSI-32,33	410	869 SF	25	22	10.0	0.12	-	0.8	324	406	410
101	CLASSROOMS (5-8) CLASSROOMS (5-8)	SSI-30,31 SSI-28,29	410 410	870 SF 872 SF	25	22 22	10.0	0.12 0.12	-	0.8	324 325	406 406	410 410
100	CLASSROOMS (5-8)	SSI-26,29 SSI-26,27	410	872 SF 872 SF	25 25	22	10.0	0.12	-	0.8	325	406	410
102		331-20,21	410		25	22	10.0	0.12	-	0.8	325	406	410
103	<u> </u>	·	410	872 SE				0.12	_		231	290	290
103 104	CLASSROOMS (5-8)	SSI-21,22	410 290	872 SF 856 SF				0.06		0.8		200	50
103 104 105	CLASSROOMS (5-8) HEALTH CLUB/WEIGHT ROOM	SSI-21,22 SSI-23,24	410 290 100	872 SF 856 SF 172 SF	10	9	20.0	0.06 0.06	-	0.8		13	CIT I
103 104	CLASSROOMS (5-8)	SSI-21,22	290	856 SF		9	20.0	0.06 0.06 0.06	-	0.8 0.8 0.8	10	13 20	50
103 104 105 106	CLASSROOMS (5-8) HEALTH CLUB/WEIGHT ROOM CORRIDOR	SSI-21,22 SSI-23,24 RTU-3	290 100	856 SF 172 SF	10 -	9	20.0	0.06	- - -	0.8	10		
103 104 105 106 106A	CLASSROOMS (5-8) HEALTH CLUB/WEIGHT ROOM CORRIDOR OFFICE SPACES	SSI-21,22 SSI-23,24 RTU-3 RTU-3	290 100 380	856 SF 172 SF 181 SF	10 - 5	9	20.0 - 5.0	0.06 0.06	-	0.8 0.8	10 16	20	50
103 104 105 106 106A 106B	CLASSROOMS (5-8) HEALTH CLUB/WEIGHT ROOM CORRIDOR OFFICE SPACES OFFICE SPACES	SSI-21,22 SSI-23,24 RTU-3 RTU-3	290 100 380 360	856 SF 172 SF 181 SF 132 SF	10 - 5 5	9	20.0 - 5.0 5.0	0.06 0.06 0.06	- - - -	0.8 0.8 0.8	10 16 13	20 17	50 50
103 104 105 106 106A 106B 106C	CLASSROOMS (5-8) HEALTH CLUB/WEIGHT ROOM CORRIDOR OFFICE SPACES OFFICE SPACES OFFICE SPACES	SSI-21,22 SSI-23,24 RTU-3 RTU-3 RTU-3	290 100 380 360 180	856 SF 172 SF 181 SF 132 SF 124 SF 245 SF 113 SF	10 - 5 5 5	9 0 1 1	20.0 - 5.0 5.0 5.0	0.06 0.06 0.06 0.06		0.8 0.8 0.8 0.8	10 16 13 12	20 17 16	50 50 50
103 104 105 106 106A 106B 106C 106D	CLASSROOMS (5-8) HEALTH CLUB/WEIGHT ROOM CORRIDOR OFFICE SPACES	SSI-21,22 SSI-23,24 RTU-3 RTU-3 RTU-3 RTU-3 SSI-25	290 100 380 360 180 250	856 SF 172 SF 181 SF 132 SF 124 SF 245 SF	10 - 5 5 5 5	9 0 1 1	20.0 - 5.0 5.0 5.0 5.0	0.06 0.06 0.06 0.06 0.06		0.8 0.8 0.8 0.8 0.8	10 16 13 12 25	20 17 16 31	50 50 50 50
103 104 105 106 106A 106B 106C 106D M1	CLASSROOMS (5-8) HEALTH CLUB/WEIGHT ROOM CORRIDOR OFFICE SPACES	SSI-21,22 SSI-23,24 RTU-3 RTU-3 RTU-3 RTU-3 RTU-3 SSI-25 SSI-25 SSI-25 SSI-25	290 100 380 360 180 250 175 225	856 SF 172 SF 181 SF 132 SF 124 SF 245 SF 113 SF 150 SF 241 SF	10 - 5 5 5 5 5 5	9 0 1 1 1 2 1 1 2	20.0 - 5.0 5.0 5.0 5.0 5.0	0.06 0.06 0.06 0.06 0.06 0.06 0.06	- - - -	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	10 16 13 12 25 12 14 24	20 17 16 31 15 18 31	50 50 50 50 50 50 50
103 104 105 106 106A 106B 106C 106D M1 M2 M3	CLASSROOMS (5-8) HEALTH CLUB/WEIGHT ROOM CORRIDOR OFFICE SPACES COFFICE SPACES	SSI-21,22 SSI-23,24 RTU-3 RTU-3 RTU-3 RTU-3 RTU-3 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25 SSI-25	290 100 380 360 180 250 175 225 365 1,350	856 SF 172 SF 181 SF 132 SF 124 SF 245 SF 113 SF 150 SF 241 SF 2472 SF	10 - 5 5 5 5 5 5 5	9 0 1 1 1 2 1 1 2 0	20.0 - 5.0 5.0 5.0 5.0 5.0 5.0	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	- - - - -	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	10 16 13 12 25 12 14 24 148	20 17 16 31 15 18 31	50 50 50 50 50 50 50 50 200
103 104 105 106 106A 106B 106C 106D M1 M2	CLASSROOMS (5-8) HEALTH CLUB/WEIGHT ROOM CORRIDOR OFFICE SPACES COFFICE SPACES CORRIDOR CORRIDOR	SSI-21,22 SSI-23,24 RTU-3 RTU-3 RTU-3 RTU-3 SSI-25 SSI-25 SSI-25 ERU-13 ERU-13	290 100 380 360 180 250 175 225 365 1,350 500	856 SF 172 SF 181 SF 132 SF 124 SF 245 SF 113 SF 150 SF 241 SF 2472 SF 1500 SF	10 - 5 5 5 5 5 5 5 5	9 0 1 1 1 2 1 2 1 2 0	20.0 - 5.0 5.0 5.0 5.0 5.0 5.0 5.0	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	- - - - - -	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	10 16 13 12 25 12 14 24 148 90	20 17 16 31 15 18 31 186 113	50 50 50 50 50 50 50 200 120
103 104 105 106 106A 106B 106C 106D M1 M2 M3	CLASSROOMS (5-8) HEALTH CLUB/WEIGHT ROOM CORRIDOR OFFICE SPACES COFFICE SPACES CORRIDOR CORRIDOR CORRIDOR	SSI-21,22 SSI-23,24 RTU-3 RTU-3 RTU-3 RTU-3 SSI-25 SSI-25 SSI-25 SSI√25 ERU-13 ERU-13 ERU-5	290 100 380 360 180 250 175 225 365 1,350 500 600	856 SF 172 SF 181 SF 132 SF 124 SF 245 SF 113 SF 150 SF 241 SF 2472 SF 1500 SF 1915 SF	10 - 5 5 5 5 5 5 5 5 -	9 0 1 1 1 2 1 1 2 0	20.0 - 5.0 5.0 5.0 5.0 5.0 5.0 5.0	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	- - - - - -	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	10 16 13 12 25 12 14 24 148 90 115	20 17 16 31 15 18 31 186 113	50 50 50 50 50 50 50 200 120
103 104 105 106 106A 106B 106C 106D M1 M2 M3 1	CLASSROOMS (5-8) HEALTH CLUB/WEIGHT ROOM CORRIDOR OFFICE SPACES COFFICE SPACES CORRIDOR CORRIDOR	SSI-21,22 SSI-23,24 RTU-3 RTU-3 RTU-3 RTU-3 SSI-25 SSI-25 SSI-25 ERU-13 ERU-13	290 100 380 360 180 250 175 225 365 1,350 500	856 SF 172 SF 181 SF 132 SF 124 SF 245 SF 113 SF 150 SF 241 SF 2472 SF 1500 SF	10 - 5 5 5 5 5 5 5 5 -	9 0 1 1 1 2 1 2 1 2 0	20.0 - 5.0 5.0 5.0 5.0 5.0 5.0 5.0	0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06	- - - - - -	0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	10 16 13 12 25 12 14 24 148 90	20 17 16 31 15 18 31 186 113	50 50 50 50 50 50 50 200 120

ROOFTOP AIR CONDITIONING UNIT SCHEDULE

TAG LOCATION NOM. SEER CFM OA CFM (IN. W.C.) BHP / HP TOTAL MBH MBH DB WB LAT°F AMB°F VOLT/Ø MCA FLA WODEL NO.

RTU-3 ROOF 1-6 13.4 1250 250 1 0.73/1 37.81 25.61 75 64.66 55.78 95 208/1 32 28 RQ-003-1-0-DAAC-V0-21-000-A 1,2,3

NOTES: 1. 14" INSULATED CURB. UNIT SHALL HAVE PACKAGED CONTROLS AND CONNECT TO BMS. 2. FACTORY MOUNTED AND WIRED DISCONNECT. 2" PREFILTER, 4" MERV 13 FILTER.

FIN TUBE SCHEDULE

TAG LOCATION BTU/FT. GPM TUBE FINS / EWT EAT ENCLOSURE TYPICAL UNIT MFG & MODEL NO. NOTES:

FT-1 6 1200 0.7 0.75 50 180 65 28" 5-5/16" BARE STERLING JVB-T-C3/4-435 1,2,3

NOTES:

1. LOCATE ELEMENT BEHIND MILLWORK BY GC.
2. MC TO FIELD VERIFY ENCLOSURE LENTGH. ENCLOSURE TO BE FULL WIDTH WITHOUT GAPS.
3. COORDINATE HEIGHT WITH ELECTRICAL DEVICES.

CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION

14457.20 Client Name

Project Number

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

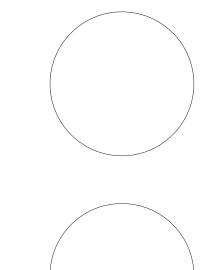
Project Name
PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

PROJECT ISSUE & REVISION SCHEDULE No. Date Description

- 1 10/27/2023 BID ADDENDUM #1 2 11/03/2023 BID ADDENDUM #2
- 3 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued

10/18/2023 12" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By Checked By
KCM JJM

Drawing Title

Drawing Title
MECHANICAL SCHEDULES

WOS H902

	REG	ISTERS.	GRILLES	AND	DIFFUSERS	
TAG	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	NOTES:
1740	AFFLICATION	WATERIAL	IIFL	TINIOTT	DESIGN EQUIF.	NOTES.
D-1	SUPPLY	STEEL	CEILING GRILLE	WHITE	PRICE 500	3
D-2	SUPPLY	STEEL	LAY-IN	WHITE	PRICE SPD	2,4
D-3	SUPPLY	STEEL	ROUND	WHITE	PRICE HCD	1
R-1	RETURN/EA	STEEL	CEILING GRILLE	WHITE	PRICE 510	3
R-2	RETURN/EA	STEEL	LAY-IN	WHITE	PRICE PDN	-
R-3	RETURN/EA	STEEL	GYM RA	WHITE	PRICE 90	1,3
NOTES:	1 OPPOSED BLAD	E DAMPER				

NOTES: 1. OPPOSED BLADE DAMPER. 2. STANDARD AIR FLOW PATTERN.

3. SINGLE DEFLECTION, BLADES PARALLEL TO LENGTH.

4. INSULATED BACK PAN.

			GRAV	ITY VE	ENTILATO	OR SCHE	DULE			
TAG	LOCATION	SERVICE	MANUF.	MODEL	THROAT AREA (SQ.FT.)	HOOD AREA (SQ.FT.)	AIR FLOW (CFM)	S.P. (IN.WG.)	TYPICAL UNIT MFG & MODEL NO.	NOTES
GI-1	ROOF	I.T. & RESOURCES	GREENHECK	GRSI-8	0.4	2.0	160	0.032	GREENHECK: GRSI-8	1,2
GI-2	ROOF	NURSE	GREENHECK	GRSI-8	0.4	2.0	100	0.013	GREENHECK: GRSI-8	1,2
GR-1	ROOF	I.T. & RESOURCES	GREENHECK	GRSR-8	0.4	2.0	160	0.019	GREENHECK: GRSR-8	1,2
GR-2	ROOF	NURSE	GREENHECK	GRSR-8	0.4	2.0	100	0.008	GREENHECK: GRSR-8	1,2
NOTES:	1 BAROMET	BIC BELIEF DAMPER IN	CLIRR		1	•				

GI-2	ROOF	NURSE	GREENHE	CK GRSI-8	0.4	2.0 100	0.013	GREEI	NHECK: GRSI-8	1,2	
GR-1	ROOF	I.T. & RESOURCES	GREENHE	CK GRSR-8	0.4 2	2.0 160	0.019	GREEN	NHECK: GRSR-8	1,2	
GR-2	ROOF	NURSE	GREENHE	CK GRSR-8	0.4 2	2.0 100	0.008	GREEN	NHECK: GRSR-8	1,2	
NOTES:	1. BAROMETRI	C RELIEF DAMPER	IN CURB.						l		
	2. 14" CURB, HI	NGED BASE AND B	IRD SCREEN.								
				VRF	BRANCH SI	ELECTOR UN	NITS				
MARK	NUMBER OF BRANCHES AVAILABLE	REAM HES	MAX TOTAL APACITY (MBH)	MAX BRANCH CAPACITY (MBH)	CONNECTED TOTAL HEATING CAPACITY (MBH)	CONNECTED TOTAL COOLING CAPACITY (MBH)	DIMENSI (H × W ×		POWER (V/Ø/HZ)	POWER (WATTS)	TYPICAL UNIT MFG & MODEL NO.
RBU-1	8	8	245	27	216	192	11" × 26"	× 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-2	8	6	245	27	162	144	11" × 26"	× 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-3	8	8	245	27	216	192	11" × 26"	× 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-4	8	5	245	27	128	132	11" × 26"	× 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH

	AVAILABLE	USED	OAI AOITT (MDIT)	OAI AOITT (WBIT)	(MBH)	(MBH)	(11 ** '' '' ''	(٧/٤/١١٢)	(****110)	a WODEL NO.
RBU-1	8	8	245	27	216	192	11" × 26" × 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-2	8	6	245	27	162	144	11" × 26" × 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-3	8	8	245	27	216	192	11" × 26" × 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-4	8	5	245	27	128	132	11" × 26" × 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-5	4	2	191	96	30	51	11" × 26" × 25"	208-230 / 1 / 60	110 W	FUJITSU UTP-RU08AH
RBU-6	8	3	245	27	60	108	11" × 26" × 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-7	8	8	245	27	216	192	11" × 26" × 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-8	8	8	245	27	216	192	11" × 26" × 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-9	4	3	191	96	81	96	11" × 26" × 25"	208-230 / 1 / 60	110 W	FUJITSU UTP-RU08AH
RBU-10	4	4	191	96	49	81	11" × 26" × 25"	208-230 / 1 / 60	110 W	FUJITSU UTP-RU08AH
RBU-11	8	7	245	27	165	195	11" × 26" × 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-12	4	4	191	96	108	96	11" × 26" × 25"	208-230 / 1 / 60	110 W	FUJITSU UTP-RU08AH
RBU-13	8	8	245	27	216	192	11" × 26" × 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-14	8	6	245	27	162	144	11" × 26" × 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH
RBU-15	8	5	245	27	97	135	11" × 26" × 25"	208-230 / 1 / 60	226 W	FUJITSU UTP-RU08AH

					HOT W	ATER F	REHEA	T COIL	SCHE	DULE				
				AIR DATA				WATER	R DATA		MEO OIZE		TVDIO AL LINIT MEO	
TAG	LOCATION	CFM	TE	EMP °F	MAX APD	MIN.	GPM	TEM	IP °F	MAX WPD	MFG SIZE HxL (IN.)	ROWS	TYPICAL UNIT MFG & MODEL NO.	NOTES:
		CFIVI	ENT	LVG	(IN WC)	MBH	GPIVI	ENT	LVG	(FT. HD)	TIXE (IIV.)		a MODEL NO.	
HC-1	GYM	3750	22.6	90.1	0.27	268.6	21.3	180	154.2	2.5	30X30	2	CAPITAL COIL W8-3030-10B-HCA-R	1
HC-2	GYM	3750	22.6	90.1	0.27	268.6	21.3	180	154.2	2.5	30X30	2	CAPITAL COIL W8-3030-10B-HCA-R	1
HC-3	GYM STAGE	2000	28.2	92.0	0.21	138.1	10.7	180	153.2	2.9	18X30	2	CAPITAL COIL W8-3018-09B-4CA-R	1
NOTES:	1. TUBE OD 0.62	5, TUBE SPAC	ING 1.500 x	1.299										

				EL	ECTRIC	REHE	AT COII	L SCHI	EDULE			\	
				AIR DATA				ELECTRICAL		MEC CIZE	MEC CIZE	TYPICAL LINIT MEC	
TAG	LOCATION	CFM	TE	EMP °F	MAX APD	KW		ELECTRICAL	- (MFG SIZE H (IN.)	MFG SIZE L (IN.)	TYPICAL UNIT MFG & MODEL NO.	NOTES:
		CI IVI	ENT	LVG	(IN WC)	IXVV	VOLTS	Ø	AMPS	()	= ()	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
EC-1	MAIN OFFICE	390	40	72	0.08	13.48	208	3	65	- 8	10	INDEECO QUA	1,2,3
EC-2	RESOURCE	160	40	72	0.08	5.53	208	3	27 (6	6	INDEECO QUA	1,2,3
EC-3	NURSE	100	40	72	0.08	3.46	208	3	17	. 8	8	INDEECO QUA	1,2,3
EC-4	ENL	265	40	72	0.08	9.16	208	3	45 (6	8	INDEECO QUA	1,2,3
EC-5	MAC LAB	260	40	72	0.08	8.99	208	3	45	8	8	INDEECO QUA	1,2,3

2. CONNECT TO BMS. 3. FACTORY MOUNTED AND WIRED DISCONNECT.

									EN	ERGY F	RECOV	ERY U	NITS								
							SUPPLY	FAN			EXHAUS	ST FAN				OPERATING					
TAG	LOCATION	AREA SERVED	SA (CFM)	EA (CFM)	RA (CFM)	FAN TYPE	E.S.P.	WATTS	HP	FAN	E.S.P.	WATTS	HP	TOTAL MBH SAVED SUMMER	TOTAL MBH SAVED WINTER	WEIGHT	FILTERS	ELECT REQUIRE		TYPICAL UNIT MFG & MODEL NO.	NOTES:
			(01 101)	(01 1/1)	(OI IVI)	FANTIFE	(IN. WC)	WAIIS	ПЕ	TYPE	(IN. WC)	WAIIS	ПР	O/WED COMMEN	SAVED WINTER	(LBS)		V/Ø/HZ	MCA	_ a mobile no.	
ERU-12	ROOF	MAIN OFFICE	390	390	390	DIRECT	0.75	395	0.5	DIRECT	0.75	395	0.5	9.0	21.1	184-243	MERV 8	208/1	15	RENEWAIRE EV450RT	1,2,3,4
ERU-13	CORRIDOR	RESOURCE	160	160	160	DIRECT	0.47	146	0.1	DIRECT	0.47	146	0.1	4.2	9.3	68	MERV 8	208/1	15	RENEWAIRE: EV200	1,2,3,4
ERU-14	212 NURSE	NURSE	100	100	100	DIRECT	0.77	111	0.1	DIRECT	0.77	111	0.1	2.8	6.1	68	MERV 8	208/1	15	RENEWAIRE: EV200	1,2,3,4
ERU-15	ROOF	MAT LABS	260	260	260	DIRECT	0.75	493	0.6	DIRECT	0.75	493	0.6	6.9	15.1	184-243	MERV 8	208/1	15	RENEWAIRE EV450RT	1,2,3,4
ERU-16	ROOF	ENL, BOOK, CUSTODIAN	265	265	265	DIRECT	0.75	493	0.6	DIRECT	0.75	493	0.6	7.0	15.4	184-243	MERV 8	208/1	15	RENEWAIRE EV450RT	1,2,3,4
NOTES:	1. FACTORY MOUN	ITED AND WIRED DISCONNECT.						·				•									

2. FRESH AIR AND EXHAUST DAMPERS. 3. TERMINAL STRIP FOR BMS CONTROL OF FAN AND DAMPERS.

4. DIRTY FILTER SENSORS.

						VR	F INDOOR	UNITS						
MARK	ROOM SERVED	TYPE	AIRFLOW (H/M/L) CFM	OUTDOOR AIRFLOW CFM	ESP (INWG)	NOM.HEATING CAPACITY MBH	NOM.COOLING CAPACITY MBH	DIMENSIONS (W" X H" X D")	WEIGHT (LBS)	POWER (Ø/V/Hz)	MOCP	FLA	TYPICAL UNIT MFG & MODEL NO.	NOTES
SSI-1,2	411	CEILING CASSETTE	607/465/330		-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-3,4	409	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-5,6	407	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-7,8	405	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-9,10	410	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-11,12	408	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-13,14	406	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-15	404	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-16	400B	CEILING CASSETTE	318/271/230	50	-	9.5	7.5	23 X 23 X 10	40	1/208/60	15	0.41	FUJITSU AUUA7TLAV2	1,2,3,4,5,6
SSI-17	400C	CEILING CASSETTE	418/348/271	50	-	20	18	23 X 23 X 10	44	1/208/60	15	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-18,19	400	CEILING CASSETTE	418/348/271	75	-	20	18	23 X 23 X 10	44	1/208/60	15	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-20,21	106	CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-22,23	108	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-24,25	110	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-26,27	111	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-28,29	109	CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-30,31	107	CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-32,33	105	CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-34	101A	CEILING CASSETTE	318/271/230	50	-	9.5	7.5	23 X 23 X 10	40	1/208/60	15	0.41	FUJITSU AUUA7TLAV2	1,2,3,4,5,6
SSI-35	101G	CEILING CASSETTE	418/348/271	-	-	20	18	23 X 23 X 10	44	1/208/60	15	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-36	200B	CEILING CASSETTE	418/348/271	-	-	20	18	23 X 23 X 10	44	1/208/60	15	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-37	200	CEILING CASSETTE	418/348/271	-	-	20	18	23 X 23 X 10	44	1/208/60	15	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-38	202	CEILING CASSETTE	418/348/271	50	-	20	18	23 X 23 X 10	44	1/208/60	15	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-39	204	CEILING CASSETTE	418/348/271	-	-	20	18	23 X 23 X 10	44	1/208/60	15	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-40,41	206	CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-42,43	208	CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-44,45	210	CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-46,47	209	CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-48,49	207	CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-50,51	205	CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-52	201B	CEILING CASSETTE	318/271/230	110	-	9.5	7.5	23 X 23 X 10	40	1/208/60	15	0.41	FUJITSU AUUA7TLAV2	1,2,3,4,5,6
SSI-53	202A	CEILING CASSETTE	418/348/271	50	-	20	18	23 X 23 X 10	44	1/208/60	15	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-54	212	CEILING CASSETTE	318/271/230	50	-	9.5	7.5	23 X 23 X 10	40	1/208/60	15	0.41	FUJITSU AUUA7TLAV2	1,2,3,4,5,6
SSI-55	212A	CEILING CASSETTE	318/271/230	50	-	9.5	7.5	23 X 23 X 10	40	1/208/60	15	0.41	FUJITSU AUUA7TLAV2	1,2,3,4,5,6
SSI-56,57	300C	CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-58	300B	CEILING CASSETTE	318/271/230	-	-	9.5	7.5	23 X 23 X 10	40	1/208/60	15	0.41	FUJITSU AUUA7TLAV2	1,2,3,4,5,6
SSI-59	300A	CEILING CASSETTE	418/348/271	-	-	20	18	23 X 23 X 10	44	1/208/60	15	0.41	FUJITSU AUUA18TLAV2	1,2,3,4,5,6
SSI-60	302	CEILING CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-61,62	301	CEILING CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-63,64	301A	CEILING CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-65,66	301B	CASSETTE	589/512/436	-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-67	304	CEILING CASSETTE		-	-	27	24	46 X 32 X 13	84	1/208/60	15	0.74	FUJITSU ABUA24TLAV2	1,2,3,4,5,6
SSI-68,69	306	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-70,71	308	CEILING CASSETTE		-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-72,73	310	CEILING CASSETTE		-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-74,75	312	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-76,77	311	CEILING CASSETTE		-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-78,79	309	CEILING CASSETTE		-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6
SSI-80,81	307	CEILING CASSETTE	607/465/330	-	-	27	24	23 X 23 X 10	44	1/208/60	15	0.62	FUJITSU AUUA24TLAV2	1,2,3,4,5,6

27

24

23 X 23 X 10

23 X 23 X 10

1/208/60

44 1/208/60

SSI-82,83

SSI-84,85

305 CEILING CASSETTE 607/465/330

303 CEILING CASSETTE 607/465/330

NOTES: 1. UNIT MOUNTED AND WIRED DISCONNECT. 2. BAC NET INTEGRATION TO BMS.

4. DRAIN PAN LEVEL SENSORS.

6. OUTDOOR UNITS POWERS INDOOR UNITS.

3. COLOR WHITE.

5. CONDENSATE PUMP.

CPL | Architecture Engineering Planning 50 Front Street Suite 202, Newburgh, NY 12550 CPLteam.com



PROJECT INFORMATION

Project Number 14457.20 Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

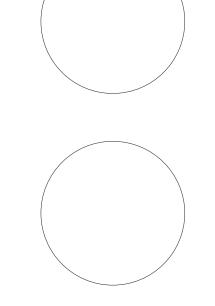
WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032

WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020 COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001 CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001
TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/03/2023 BID ADDENDUM #2 2 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS



SHEET INFORMATION

FUJITSU AUUA24TLAV2

FUJITSU AUUA24TLAV2

1,2,3,4,5,6

1,2,3,4,5,6

Issued 10/18/23 NTS Project Status BID DOCUMENTS Drawn By KCM Drawing Title

HVAC SCHEDULES

														F	AN C	OIL UN	IT S	CHE	DULE														
									FAN						HOT WATE	R HEATING	COIL											,	ELEC	TRICAL			
TA	AG L	OCATION	SERVICE	MANUFACTURER	MODEL	TYPE	AIR FLOW (CFM)	ESP (IN.WG.)	MOTOR BHP	MOTOR HP	DRIVE	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	CAPACITY (MBH)	FLUID TYPE	GPM	MPD (FT.WG	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	AMBIENT (°F)	FACE VELOCITY (FPM)	CIRCUITS	REFRIGERANT	FILTER	V	PH	HZ	MCA	FLA MOCF	WEIGHT (LBS)	NOTES
FCI	U-1	VEST	102 VEST	AIR THERM	SRBB	DUCTED	500	100	-	2	DIRECT	50	90	180	150	21.6	WATE	R 1.44	1 -	19.3	13.5	85	400	1	R410A	MERV 8	120	1	60	-	- 15	-	1,2
NOT	ΓES: 1.	PROVIDE D	ISCONNECT.																														
	2.	CEILING RE	CESSED																														

		Υ		Υ	ΥΥ	ΥΥ	ΥΥ		Υ	Υ	Υ	Y	ΥΥ		Υ	ΥΥ	Y	Y	ΥΥ		Υ	Y	ΥΥ	Y	ΥΥ		Υ	Υ	Y	Y	
2		·				·	·					E	NERC	Y RE	COVE	RY E	HEEL	PERF	ORMA	NCE S	SCHE	DULE	·		·		•	·		,	J
		SUPPLY F	AN			EXHAUST	FAN		ELEC1	TRICAL				WIN	ITER COND	ITIONS								SUI	MMER CON	DITIONS					
TAG	AIR FLOW	E.S.P.			AIR FLOW	E.S.P.		\			WHE	EL ENTERI	NG CONDITI	ONS	WHE	EL LEAVIN	IG CONDITI	ONS	TOTAL CAPACITY	WHE	EL ENTERI	NG CONDIT	IONS	WHE	EL LEAVIN	G CONDITIO	ONS	TOTAL CAPACITY	EFFECTIVENESS @ SUMMER DESIGN	TYPICAL UNIT MFG	NOTES:
	(CFM)	(IN WC)	RPM	HP	(CFM)	(IN WC)	RPM	HP>	- VOLT/Φ	FLA	OUTSI	DE AIR	RETUR	N AIR	SUPPI	_Y AIR	EXHAU	IST AIR	CAI ACITT	OUTSI	IDE AIR	RETU	RN AIR	SUPPL	Y AIR	EXHAU	ST AIR	CALACITI	SOMMEN DESIGN	& MODEL NO.	}
											QB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	(MBH)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	(MBH)	TOTAL %		
RTU-1	3675	0.75	1760	5	2390	0.5	1760	2	- 208/3	64	-2	-3	65	62	42.71	42.71	20.29	20.29	185.74	95	71	72	62	79.25	65.08	87.47	68.27	46.05	66.4	AAON RN-011-3-0-DAAC-V0-21-000-	A 1,2,3
RTU-2	3675	0.75	1760	5	2390	0.5	1760	2	208/3	64	-2	-3	65	62	42.71	42.71	20.29	20.29	185.74	95	71	72	62	79.25	65.08	87.47	68.27	46.05	66.4	AAON RN-011-3-0-DAAC-V0-21-000-	A 1,2,3
NOTES:	1. 14"/NSU	LATED CURB.	EXTEND	EXISTING	G CONTROLS	TO NEW UNIT	TS. MOTOR	RIZED REL	IEF DAMPEI	RS.																					

2	. FAC	ORY MOUNTED	AND WIRED D	ISCONNECT. 2	2" PREFILTER,	4" MER	(13 FILTER.	\
3	. DOÙ	BLE WALL, R-13	FOAM INSULA	TION.				_

_																			Y Y		
									El	NERG	Y REC	OVERY	Y UNIT	•				•			
			0.1.10.1		5.			SUPPLY	FAN			E	XHAUST FAI	V		LIEATING	БРООТ	OPERATING		UNIT ELEC	TRICAL
TA	G LOCATION	AREA SERVED	SA/OA (CFM)	EA (CFM)	RA (CFM)	FAN TYPE	E.S.P. (IN. WC)	RPM	ВНР	HP	FAN TYPE	E.S.P. (IN. WC)	RPM	ВНР	HP	HEATING TYPE	FROST CONTROL	WEIGHT (LBS)	FILTERS	REQUIREI V/Ø/HZ	MENTS FLA
ERU	-1 ROOF	CLASSROOMS	2000	2000	2000	PLENUM	1	1760	1.48	2	PLENUM	0.5	1760	0.85	2	ELECTRIC	YES	1554	2" PRE-FILTER/4" MERV 13	208/3/60	99
ERU	-2 ROOF	CLASSROOMS	1500	1500	1500	PLENUM	1	1760	1.48	2	PLENUM	0.5	1760	0.85	1	ELECTRIC	YES	1511	2" PRE-FILTER/4" MERV 13	208/3/60	75
ERU	-3 ROOF	CLASSROOMS	2000	2000	2000	PLENUM	1	1760	1.48	2	PLENUM	0.5	1760	0.85	2	ELECTRIC	YES	1554	2" PRE-FILTER/4" MERV 13	208/3/60	99
ERU	-4 ROOF	CLASSROOMS	1950	1500	1500	PLENUM	1	1760	1.48	2	PLENUM	0.5	1760	0.85	2	ELECTRIC	YES	1541	2" PRE-FILTER/4" MERV 13	208/3/60	96
ERU	-5 ROOF	CLASSROOMS	2000	2000	2000	PLENUM	1	1760	1.48	2	PLENUM	0.5	1760	0.85	2	ELECTRIC	YES	1554	2" PRE-FILTER/4" MERV 13	208/3/60	99
ERU	-6 ROOF	CLASSROOMS	1650	1060	1060	PLENUM	1	1760	1.48	2	PLENUM	0.5	1760	0.85	2	ELECTRIC	YES	1511	2" PRE-FILTER/4" MERV 13	208/3/60	96
ERU	-7 ROOF	CLASSROOMS	2020	2020	2020	PLENUM	1	1760	1.48	2	PLENUM	0.5	1760	0.85	2	ELECTRIC	YES	1554	2" PRE-FILTER/4" MERV 13	208/3/60	99
ERU	-8 ROOF	CLASSROOMS	2000	2000	2000	PLENUM	1	1760	1.48	2	PLENUM	0.5	1760	0.85	2	ELECTRIC	YES	1554	2" PRE-FILTER/4" MERV 13	208/3/60	99
ERU	-9 ROOF	CLASSROOMS	1605	700	700	PLENUM	1	1760	1.48	2	PLENUM	0.5	1760	0.85	2	ELECTRIC	YES	1511	2" PRE-FILTER/4" MERV 13	208/3/60	96
ERU	-10 ROOF	CLASSROOMS	2110	1660	1660	PLENUM	1	1760	1.48	2	PLENUM	0.5	1760	0.85	2	ELECTRIC	YES	1541	2" PRE-FILTER/4" MERV 13	208/3/60	117
ERU	-11 ROOF	CLASSROOMS	1120	1120	1120	PLENUM	1	1760	1.48	2	PLENUM	0.5	1760	0.85	2	ELECTRIC	YES	1510	2" PRE-FILTER/4" MERV 13	208/3/60	54

									ENERGY	RECO	VERY	UNIT ((CONT	.)						
				WI	INTER CONI	DITIONS								SUMMER	R CONDITION	IS				_
	W	HEEL ENTERING (CONDITIONS		\	WHEEL LEAVI	NG CONDITIO	NS	EFFECTIVENESS @	WH	EEL ENTERI	NG CONDITI	ONS		WHEEL LEA	VING CONDITION	ONS	EFFECTIVENESS @	TYPICAL UNIT MFG	
TAG	OUT	TSIDE AIR	RETU	RN AIR	SUPF	PLY AIR	EXHAU	ST AIR	WINTER DESIGN	OUTSI	DE AIR	RETUI	RN AIR	SUPP	LY AIR	EXHAL	JST AIR	SUMMER DESIGN	& MODEL NO.	NOTES
	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL %	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	TOTAL %		_
ERU-1	-7	-8	65	62	38	38	19.8	19.8	63.7	90	71	75	62	80	65	84.7	68	63.7	AAON RN-007-80-E60E14A	1,2,3,4
ERU-2	-7	-8	65	62	42.7	42.7	15.2	15.2	69.7	90	71	75	62	79.1	64.7	85.7	68.5	69.7	AAON RN-006-80-E60E13A	1,2,3,4
ERU-3	-7	-8	65	62	38	38	19.8	19.8	63.7	90	71	75	62	80	65	84.7	68	63.7	AAON RN-007-80-E60E14A	1,2,3,4
ERU-4	-7	-8	65	62	28.1	28.1	19.3	19.3	72.4	90	71	75	62	81.1	65.9	86.2	68.9	72.4	AAON RN-007-80-E60E14A	1,2,3,4
ERU-5	-7	-8	65	62	38	38	19.8	19.8	63.7	90	71	75	62	80	65	84.7	68	63.7	AAON RN-007-80-E60E14A	1,2,3,4
ERU-6	-7	-8	65	62	24.1	24.1	16.6	16.6	78.6	90	71	75	62	81.9	66.4	87.2	69.4	78.6	AAON RN-006-80-E60E13A	1,2,3,4
ERU-7	-7	-8	65	62	38	38	19.8	19.8	63.7	90	71	75	62	80	65	84.7	68	63.7	AAON RN-007-80-E60E14A	1,2,3,4
ERU-8	-7	-8	65	62	38	38	19.8	19.8	63.7	90	71	75	62	80	65	84.7	68	63.7	AAON RN-007-80-E60E14A	1,2,3,4
ERU-9	-7	-8	65	62	24.1	24.1	16.6	16.6	78.6	90	71	75	62	81.9	66.4	87.2	69.4	78.6	AAON RN-006-80-E60E13A	1,2,3,4
ERU-10	-7	-8	65	62	28.5	28.5	19.8	19.8	69.7	90	71	75	62	81.3	71.7	85.8	68.6	69.7	AAON RN-007-80-E60E15A	1,2,3,4
ERU-11	-7	-8	65	62	46.2	46.2	11.7	11.7	74.3	90	71	75	62	78.4	64.3	86.4	68.9	74.3	AAON RN-006-80-E60E12A	1,2,3,4

1.	FACTORY	MOUNTED AND WIR	ED DISCON	INEC

FRESH AIR AND EXHAUST DAMPERS.
 TERMINAL STRIP FOR BMS CONTROL OF FAN AND DAMPERS.

4. DIRTY FILTER SENSORS.

						ENE	RGY R	RECOVERY	UNIT	(CONT	.)						
								COOLING			REHI	EAT			HEA	TING	
TAG	TYPE	FINS PER INCH	ROWS	FACE VEL	COIL PD REF.	COMP QTY	TOTAL CAPACITY (MBH)	SENSIBLE (MBH)	EAT(F)	LAT(F)	CAPACITY (MBH)	LAT(F)	OAT(F)	RAT(F)	EAT(F)	TOTAL CAPACITY (MBH)	INPUT kW
ERU-1	AIR TO AIR	14	3	235	R410A	1	107	54.6	80/65.3	54.5/53.3	34	70/59.4	-7.0	65	38.1	102	30
ERU-2	AIR TO AIR	14	3	176	R410A	1	90.2	44.3	79.1/64.7	53/51.5	30	70/58.3	-7.0	65	42.8	76.8	22.5
ERU-3	AIR TO AIR	14	3	235	R410A	1	107	54.6	80/65.3	54.5/53.3	34	70/59.4	-7.0	65	38.1	102	30
ERU-4	AIR TO AIR	14	3	229	R410A	1	102	54.5	81.6/65.9	56.7/54.4	32	70/59.6	-7.0	65	28.1	102	30
ERU-5	AIR TO AIR	14	3	235	R410A	1	107	54.6	80/65.3	54.5/53.3	34	70/59.4	-7.0	65	38.1	102	30
ERU-6	AIR TO AIR	14	3	194	R410A	1	87.1	48.2	81.9/66.4	56.1/54.1	28	70/59.5	-7.0	65	24.1	102	30
ERU-7	AIR TO AIR	14	3	235	R410A	1	107	54.6	80/65.3	54.5/53.3	34	70/59.4	-7.0	65	38.1	102	30
ERU-8	AIR TO AIR	14	3	235	R410A	1	107	54.6	80/65.3	54.5/53.3	34	70/59.4	-7.0	65	38.1	102	30
ERU-9	AIR TO AIR	14	3	194	R410A	1	86.6	47.8	81.1/65.9	55.6/53.8	29	70/59.4	-7.0	65	24.1	102	30
ERU-10	AIR TO AIR	14	3	248	R410A	1	105.5	57.2	81.3/66	57.6/55.4	33	70/60.1	-7.0	65	28.5	128	37.6
ERU-11	AIR TO AIR	14	3	131	R410A	1	79.6	37.8	78.4/64.3	48.2/47	28	70/56.3	-7.0	65	46.2	51.2	15

-			ENE	RGY R	ECOV	ERY l	JNIT (C	ONT.)		
t					OCTAVE	BAND AND	CENTER FR	EQUENCY (HZ	<u>.</u>)	
	TAG	SOUND SOURCE	1	2	3	4	5	6	7	8
		300KCL _	62.5	125	250	500	1000	2000	4000	8000
	EDII 4	DISC.	85	83	86	82	74	72	69	63
	ERU-1	INLET	83	81	78	72	70	68	64	60
	ED. 1.0	DISC.	85	83	86	82	74	72	69	63
-	ERU-2	INLET	83	81	78	72	70	68	64	60
r		DISC.	85	83	86	82	74	72	69	63
	ERU-3	INLET	83	81	78	72	70	68	64	60
t		DISC.	85	83	86	82	74	72	69	63
-	ERU-4	INLET	83	81	78	72	70	68	64	60
f		DISC.	85	83	86	82	74	72	69	63
	ERU-5	INLET	83	81	78	72	70	68	64	60
-		DISC.	85	83	86	82	74	72	69	63
	ERU-6	INLET	83	81	78	72	70	68	64	60
t		DISC.	85	83	86	82	74	72	69	63
	ERU-7	INLET	83	81	78	72	70	68	64	60
-		DISC.	85	83	86	82	74	72	69	63
	ERU-8	INLET	83	81	78	72	70	68	64	60
+		DISC.	85	83	86	82	74	72	69	63
	ERU-9	INLET	83	81	78	72	70	68	64	60
1	EDII 40	DISC.	85	83	86	82	74	72	69	63
	ERU-10	INLET	83	81	78	72	70	68	64	60
t	EDII 44	DISC.	85	83	86	82	74	72	69	63
	ERU-11	INLET	83	81	78	72	70	68	64	60

TAG	LOCATION	SERVICE	MANUF.	MODEL	TYPE	FLUID	GPM	HEAD	RPM	HP	STARTER			ELEC1	TRICAL			NOTES
IAG	LOCATION	SERVICE	MANUF.	WODEL	ITPE	FLUID	GPIVI	(FT.WG.)	KPIVI	ПР	STARTER	V	PH	HZ	MCA	FLA	MOCP	NOTES
P-1	BOILER ROOM	HHW	B&G	1510	BASE-MOUNTED SPLIT COUPLE	WATER	90	50	1750	10	VFD	460	3	60	-	-	-	1
P-2	BOILER ROOM	HHW	B&G	1510	BASE-MOUNTED SPLIT COUPLE	WATER	90	50	1750	10	VFD	460	3	60		-	-	1
P-3	GYM	HHW	B&G	ECOCIRC XL - 36-45	INLINE	WATER	22	12.5	2919	0.16	N	208	1	60	-	-	-	1,2
P-4	GYM	HHW	B&G	ECOCIRC XL - 36-45	INLINE	WATER	22	12.5	2919	0.16	N	208	1	60	-	-	-	1,2
P-5	STAGE	HHW	B&G	ECOCIRC XL - 36-45	INLINE	WATER	11	13	2727	0.16	N	208	1	60	-	-	-	1,2
NOTES:	1. PROVIDE DISCONNE	ECT																
	2. ECM MOTOR.																	

PUMP SCHEDULE

			· · · · · · · · · · · · · · · · · · ·			'	DC	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	D AID	CONDI	TIONIIN	10 1111								I
							RC	JOFIC	OP AIR	CONDI	HONIN	IG UNI	SCH	DULE						
	TAG LOCATION NOM.	NOM			SUPPI	LY FAN			EXHAUST FAI	N			COOLING	CAPACITY			ELECT	RICAL	TVDIOAL LINUT MEO	
TAG LOCATION	LOCATION	NOM. TONS	IEER	CFM	OA CFM	ESP	BHP / HP	CFM	ESP	BHP / HP	TOTAL	SENS	EA	T°F	LAT°F	AMB °F	VOLT/Ø	FLA	TYPICAL UNIT MFG & MODEL NO.	NOTES:
		10110		CI W	OA CI W	(IN. W.C.)	DITE / TIE	CI IVI	(IN. W.C.)	DITE / TIE	MBH	MBH	DB	WB	LATT	AIVID	VOLITO	ILA	a model ito.	
RTU-3	STAGE		14.8	2000	1100	1.25	1.23/2	2000	0.5	.7/1	72.67	60.37	84.7	67.2	56.04	95	208/3	35	AAON:	1,2,3

3. DOUBLE WALL, R-13 FOAM INSULATION.
2. FACTORY MOUNTED AND WIRED DISCONNECT. 2" PREFILTER, 4" MERV 13 FILTER.
1. 14 INSULATED CURB. EXTEND EXISTING CONTROLS TO NEW UNITS. MOTORIZED RELIEF

4. ECM MOTORS.

5. MERV 13 FILTERS.

<i>]</i>	Y	γ	γ	V	γ	γ	γ	Ý	UN	IIT VĚN	TILATOR S	CHEDU	LE	Y	Ý	Υ	γ	Y		Y Y	,
TAG	ROOM	۸.2	0.4	UNIT TYPE	ELECT	RICAL	WIN	ITER			HW	COIL CAPACI	TY				DX COIL C	APACITY		TYPICAL UNIT MFG	NOTES:
IAG	SERVES	3A	OA	UNITITE	MCA	VOLT/Ø	OA °F	RA °F	EWT °F	LWT °F	EAT °F	LAT °F	MBH	WPD	GPM	REF.	EAT °F	LAT °F	MBH	& MODEL NO.	NOTES.
UV-1	CAFÉ	1500	975	VERT	5.9	120/1	2	65	180	133	23.0	101	136.0	5.0	6.0	410A	85/70	62/59	54.0	MAGIC AIRE MAUV5	1,2,3,4,5
UV-2	CAFÉ	1500	975	VERT	5.9	120/1	2	65	180	133	23.0	101	136.0	5.0	6.0	410A	85/70	62/59	54.0	MAGIC AIRE MAUV5	1,2,3,4,5
NOTES:	1. FACTORY	MOUNTED AN	ND WIRED DISC	CONNECT.																	
-	2. CONDENS	ATE PUMP, D	RAIN PAN ALA	ARM.																	_
	3. FULL ADAP	TER WITH EN	CLOSED PIPE T	UNNEL, FINISHED ENI	DS.																/

CPL | Architecture Engineering Planning 50 Front Street Suite 202, Newburgh, NY 12550 CPLteam.com



PROJECT INFORMATION
Project Number

14457.20

Client Name
SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

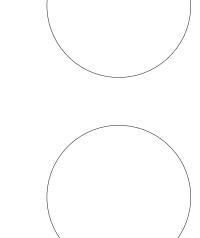
| WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 |
| COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 |
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| COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 |
| COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 |
| WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 |
| SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001 |
| CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001 |
| TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001 |

PROJECT ISSUE & REVISION SCHEDULE

1 10/27/2023 BID ADDENDUM #1 2 11/03/2023 BID ADDENDUM #2

3 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERIN PARTY SHALL AFFIX TO THE TIEM THEM SEAL AND THE NOTATION "ALTERED BY" FOLLOWED THEIR SECULATION AND ASSECTIVE DESCRIPTION.

SHEET INFORMATION

Issued Scale
10/18/23 NTS
Project Status
BID DOCUMENTS
Drawn By Checked By
KCM LIM

KCM JJM

Drawing Title

HVAC SCHEDULES

ng Number CLE

CLE H901

Υ	γ γ γ γ	Υ	Υ	Υ	Υ	Υ Υ	γ γ γ	Υ Υ	Υ
EQUIPMENT	LOCATION	HP/FLA	VOLTS	PHASE	AMPS	BREAKER SIZE	WIRE/CONDUIT SIZE	PANEL/CIRCUIT	REMARKS:
ERU-1	ROOF	99A	208	3	99A	125A/3P	3 #1, 1#6GND IN 2" C	1LNL14/1,3,5	1
ERU-2	ROOF	75A	208	3	75A	100A/3P	3 #2, 1#8GND IN 1-1/2" C	1LNL14/2,4,6	1
ERU-3	ROOF	99A	208	3	99A	125A/3P	3 #1, 1#6GND IN 2" C	1LNL14/26,28,30	1
ERU-4	ROOF	96A	208	3	96A	125A/3P	3 #1, 1#6GND IN 2" C	1LNL11/37,39,41	1
ERU-5	ROOF	99A	208	3	99A	125A/3P	3 #1, 1#6GND IN 2" C	1LNL15/1,3,5	1
ERU-6	ROOF	96A	208	3	96A	125A/3P	3 #1, 1#6GND IN 2" C	1LNL15/2,4,6	1
ERU-7	ROOF	99A	208	3	99A	125A/3P	3 #1, 1#6GND IN 2" C	1LNL16/26,28,30	1
ERU-8	ROOF	99A	208	3	99A	125A/3P	3 #1, 1#6GND IN 2" C	1LNL16/25,27,29	1
ERU-9	ROOF	96A	120	1	96A	125A/3P	3 #1, 1#6GND IN 2" C	1LNL13/38,40,42	1
ERU-10	ROOF	117A	208	3	117A	150A/3P	3# 2/0, 1#6GND IN 2-1/2" C	1LNL16/1,3,5	1
ERU-11	ROOF	54A	208	3	54A	70A/3P	3 #4, 1#8GND IN 1-1/2" C	1LNL16/2,4,6	1
E/RU-12	λ ROOFλ λ	6A)	208	1,1	6A	Д 20А/2Р Д	Д 2 #12, 1,#12 GND IN 3//4" C	1ĻNL14/19,21 Д	, 1
ERU-13	CORRIDOR	10A	208	1	10A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL15/45,47	1
ERU-14	NURSE 212	10A	208	1	10A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL15/40,42	1
ERU-15	ROOF	15A	208	1	15A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL15/19,21	1
	ROOF			1		20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNk15/29,31	
ERU-16	Y Y Y	15Å	208	1 /	154	Y	Y Y Y	Y Y	γ1 *
RTU-1	ROOF	64A	208	3	64A	80A/3P	3 #4, 1 #10 GND IN 1-1/2" C	1LNL15/39,41,43	1
RTU-2	ROOF	64A	208	3	64A	80A/3P	3 #4, 1 #10 GND IN 1-1/2" C	1LNL16/20,22,24	1
RTU-3	ROOF	35A	208	3	35A	50A/3P	3 #6, 1 #10 GND IN 1" C	1LNL16/19,21,23	1
ACC-1	ROOF	/50A	208	3	60A	60A/3P	3#6, 1#10 GND/IN 1"C	1LNL14/7,9,11	
ACC-2	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL14/8,10,12	1
ACC-3	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL14/13,15,17	1
ACC-4	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL14/14,16,18	1
ACC-5	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL14/32,34,36	1
ACC-6	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL14/41,43,45	1
ACC-7	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL14/38,40,42	1
ACC-8	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL14/20,22,24	1
ACC-9	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL15/7,9,11	1
ACC-10	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL15/8,10,12	1
ACC-11	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL15/14,16,18	1
ACC-12	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL15/13,15,17	1
ACC-13	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL16/32,34,36	1
ACC-14	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL16/31,33,35	1
ACC-15	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL16/38,40,42	1
ACC-16	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL16/37,39,41	1
ACC-17	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL16/44,46,48	1
ACC-18	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL15/20,22,24	1
ACC-19	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL16/7,9,11	1
ACC-20	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL16/8,10,12	1
ACC-21	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL16/13,15,17	1
ACC-22	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL16/14,16,18	1
ACC-23	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL14/23,25,27	1
ACC-24	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL15/33,35,37	1
ACC-25	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL15/23,25,27	1
ACC-26	EXTERIOR OUTSIDE CAFÉ	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL15/34,36,38	1
ACC-27	EXTERIOR OUTSIDE CAFÉ	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL15/28,30,32	1
FC-1	SECURE VESTIBULE 102	50A 50A	120	1	15A	20A/1P	2 #12, 1 #12 GND IN 3/4" C	1LNL13/28,30,32 1LNL11/9	1,2
RBU-1	CORRIDOR	226W	208	1	15A 1A	ZUNIF	·	ILINE I I/S	1,4
						- 20A/2P	2 #12, 1 #12 GND IN 3/4" C	- 1LNL12/10,12	1,2
RBU-2	CORRIDOR	226W	208	1	1A		2 #12, 1 #12 GND IN 3/4" C		
RBU-3	CORRIDOR	226W	208	1	1A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL12/13,15	1,2
RBU-4	CORRIDOR	226W	208	1	1A		2 #12, 1 #12 GND IN 3/4" C		
RBU-5	ENL 101G	110W	208	1	1A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL12/14,16	1,2
RBU-6	MAC LAB 200	226W	208	1	1A		2 #12, 1 #12 GND IN 3/4" C		
RBU-7	CORRIDOR	226W	208	1	1A	-	2 #12, 1 #12 GND IN 3/4" C	-	
RBU-8	CORRIDOR	226W	208	1	1A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL13/13,15	1,2
RBU-9	CORRIDOR	110W	208	1	1A		2 #12, 1 #12 GND IN 3/4" C		
RBU-10	CORRIDOR	110W	208	1	1A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL12/24,26	1
RBU-11	CORRIDOR	226W	208	1	1A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL13/12,14	1,2
RBU-12	CORRIDOR	110W	208	1	1A		2 #12, 1 #12 GND IN 3/4" C		,-
RBU-13	CORRIDOR	226W	208	1	1A		2 #12, 1 #12 GND IN 3/4" C		
RBU-14	CORRIDOR	226W	208	1	1A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL11/12,14	1,2
RBU-15	MAIN OFFICE 400	226W	208	1	1A		2 #12, 1 #12 GND IN 3/4" C		
EC-1	MAIN OFFICE 400	13.5KW	208	3	65A	70A/3P	3 #4, 1 #10 GND IN 1-1/2" C	1LNL11/6,8,10	1,2
EC-2	RESOURCE	5.5KW	208	3	27A	30A/3P	3 #10, 1 #12 GND IN 3/4" C	1LNL12/17,19,21	1,2
EC-3	NURSE 212	3.5KW	208	3	17A	20A/3P	3 #12, 1 #12 GND IN 3/4" C	1LNL12/18,20,22	1,2
SSO-1	ROOF	50A	208	3	60A	60A/3P	3 #6, 1 #10 GND IN 1" C	1LNL14/29,31,33	1
1. ELECTRICAL CON	TRACTOR IS RESPONSIBLE FOR THE MOUN	NTING, AND LII	NE/LOAD SIDE	CONNECT	IONS OF DISCON	NNECT AND/OR STARTER	DEVICE ASSOCIATED WITH UNIT. MEANS C	F DISCONNECT AND/OR START	ER
VECOCIATED MUTILI	THE PROPERTY AND ALL CONTRACT	OD FLEATON	CAL CONTRAC	FOR IO DE	UDOMOIDLE FOR	ALL CINIAL CONNICATION	C LO FOLIDATAT		

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE MOUNTING, AND LINE/LOAD SIDE CONNECTIONS OF DISCONNECT AND/OR STARTER DEVICE ASSOCIATED WITH UNIT. MEANS OF DISCONNECT AND/OR STARTER ASSOCIATED WITH UNIT PROVIDE BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.

2. REMOVE 1-POLE CIRCUIT BREAKERS IN SPACE INDICATED. PLACE 1-POLE CIRCUIT BREAKERS IN OPEN SPACES WITHIN PANEL.

PANEL: 1LNL14 LOCATION: JC 113 A.I.C. RATING: MCB RATING: Type 1 **VOLTAGE:** FED FROM: MDP MAIN BUS RATING: 800 A **MOUNTING:** Surface

•••	BRK	(R	LOAD DESCRIPTION	Α (VA)	B ('	VA)	C (VA)	LOAD DESCRIPTION	В	RKR	•••
1				11889	9006								2
3	125	3	ERU-1			11889	9006			ERU-2	3	100	
5								11889	9006				6
7				7205	7205								8
9	60	3	ACC-1			7205	7205			ACC-2	3	60	1
1								7205	7205				1
3				7205	7205								1
5	60	3	ACC-3			7205	7205			ACC-4	3	60	1
7								7205	7205				1
9	00		EDIL 10	624	7205								2
1	20	_	ERU-12			624	7205			ACC-8	3	60	2
3								7205	7205				2
	60	3	ACC-23	7205	11889								2
7						7205	11889			ERU-3	3	125	5 2
9								7205	11889				3
1	60	3	SSO-1	7205	7205								3
3						7205	7205			ACC-5	3	60	3
	20	1	SPARE					0	7205				3
37	20	1	SPARE	0	7205								3
9	20	1	SPARE			0	7205			ACC-7	3	60	4
11								7205	7205				4
13	60	3	ACC-6	7205						SPACE	1		4
15						7205				SPACE	1		4
7		1	SPACE							SPACE	1		4
9		1	SPACE							SPACE	1		5
51			SPACE							SPACE	1		5
53			SPACE							SPACE	1		5
			TOTAL LOAI	1054	58 VA	1054	58 VA	10483	34 VA		'		
				_		-				D I T. I			

Load Classification Load Connected VA Demand Factor Demand VA Recept. Lighting HVAC Motors Refrig. Kitchen 236812 VA **Misc.** 315749 VA

Panel Totals Connected Load 315749 VA Estimated Load 236812 VA Connected Amps 876 A Demand Amps 657 A

PANEL: 1LNL15

LOCATION: CL. 200A A.I.C. RATING: MCB RATING: Type 1 **VOLTAGE:** MAIN BUS RATING: 800 A FED FROM: MDP **MOUNTING:** Surface

•••	BRI	BRKR LOAD DESCRIPTION	Α (VA)	В ('	VA)	C (VA)	LOAD DESCRIPTION	ВІ	RKR	•••	
1				11889	11528								2
3	125	3	ERU-5			11889	11528			ERU-6	3	125	
5								11889	11528				6
7				7205	7205								8
9	60	3	ACC-9			7205	7205			ACC-10	3	60	10
1								7205	7205				1:
3				7205	7205								14
5	60	3	ACC-12			7205	7205			ACC-11	3	60	1
7	1							7205	7205				1
	20	2	EDIL 16	1560	7205								2
9	20	_	ERU-15			1560	7205			ACC-18	3	60	2
3 25 7			CC-25					7205	7205				2
5	60	3	ACC-25	7205						SPACE	1		2
7						7205	7205						2
9	00		EDIL 17					1560	7205	ACC-27	3	60	3
9	20	_	ERU-16	1560	7205								3
3						7205	7205						3
3 35 37	60	3	ACC-24					7205	7205	ACC-26	3	60	3
7				7205	7205								3
39						7686	1040			EDIL 14		200	4
11	80	3	RTU-1					7686	1040	ERU-14	2	20	4
13	1			7686						SPACE	1		4
15 17	00		EDIL 12			1040				SPACE	1		4
17	20	2	ERU-13					1040		SPACE	1		4
19		1	SPACE							SPACE	1		5
1		1	SPACE							SPACE	1		5
- 2			CDACE							CDACE	1		-

TOTAL LOAD 99068 VA 99588 VA 99588 VA **53** -- 1 SPACE Load Classification Load Connected VA Demand Factor Demand VA Motors

Panel Totals Connected Load 298245 VA Estimated Load 223684 VA Connected Amps 828 A Demand Amps 621 A



CPLteam.com



PROJECT INFORMATION

Project Number 14457.20 Client Name

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

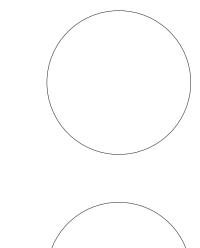
SOUTH ORANGETOWN CSD

☐ WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032 WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020 COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 OTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001 CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001 ☐ TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS





Issued

12/21/22 12" = 1'-0" Project Status BID DOCUMENTS Drawn By

SHEET INFORMATION

MAY Drawing Title ELECTRICAL SCHEDULES

				1					
EQUIPMENT	LOCATION	HP/FLA	VOLTS	PHASE	AMPS	BREAKER SIZE	WIRE/CONDUIT SIZE	PANEL/CIRCUIT	REMARK
SSI-67	MATH RTI 304	0.84	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-68	4TH GRADE 306	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-69	4TH GRADE 306	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-70	4TH GRADE 308	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-71	4TH GRADE 308	0.34	208	1	0.34A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL13/6,8	1,2
SSI-72	3RD GRADE 310	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-73	3RD GRADE 310	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-74	3RD GRADE 312	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-75	3RD GRADE 312	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-76	3RD GRADE 311	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-77	3RD GRADE 311	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-78	5TH GRADE 309	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-79	5TH GRADE 309	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-80	5TH GRADE 307	0.34	208	1	0.34A	204/20	2 #12, 1 #12 GND IN 3/4" C	41 NII 42/0 44	1.0
SSI-81	5TH GRADE 307	0.34	208	1	0.34A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	- 1LNL13/9,11	1,2
SSI-82	4TH GRADE 305	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-83	4TH GRADE 305	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-84	3RD GRADE 303	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-85	3RD GRADE 303	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C	1	
EC-4	ENL 101G	9.16KW	208	3	45A	60A/3P	3 #6, 1 #10 GND IN 1-1/4" C	1LNL12/25,27,29	1
EC-5	MAC LAB 200B	8.99KW 208 3 45A 60A/3P				60A/3P	3 #6, 1 #10 GND IN 1-1/4" C	1LNL12/28,30,32	1

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE MOUNTING, AND LINE/LOAD SIDE CONNECTIONS OF DISCONNECT AND/OR STARTER DEVICE ASSOCIATED WITH UNIT. MEANS OF DISCONNECT AND/OR STARTER ASSOCIATED WITH UNIT PROVIDE BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.

2. REMOVE 1-POLE CIRCUIT BREAKERS IN SPACE INDICATED. PLACE 1-POLE CIRCUIT BREAKERS IN OPEN SPACES WITHIN PANEL.

	2. REMOVE 1-POLE CIRCUIT BREAKERS IN SPACE INDICATED. PLACE 1-POLE	CIRCUIT BREAKERS IN OPEN	SPACES WITHIN PANEL.				
		LUMINA	IRE SCHEDULE				
						LAMP	
MARK	DESCRIPTION	DESIGN MAKE	MODEL NUMBER	VOLTS	WATTS	TEMPERATURE	REMARKS:
А	2X2 RECESSED LED TROFFER	CURRENT LIGHTING	LCAT22-9-35-HL-G-ED1-U	UNV	32	3500K	
A/EM	2X2 RECESSED LED TROFFER WITH EMERGENCY BATTERY BACKUP	CURRENT LIGHTING	LCAT22-9-35-HL-G-ED1-U-ELL14	UNV	32	3500K	3,4
В	2X2 RECESSED LED FLAT PANEL	CURRENT LIGHTING	CFP22-40/33/2835	UNV	40	3500K	1
B/EM	2X2 RECESSED LED FLAT PANEL EMERGENCY BATTERY BACKUP	CURRENT LIGHTING	CFP22-40/33/2835-ELL14	UNV	4	3500K	1,3,4
С	2X2 RECESSED LED TROFFER	CURRENT LIGHTING	LHFL-G-D-22-SOF-C1-35K-D42-D01-UNV	UNV	33	3500K	
C/EM	2X2 RECESSED LED TROFFER EMERGENCY BATTERY BACKUP	CURRENT LIGHTING	LHFL-G-D-22-SOF-C1-35K-D42-D01-UNV-EF	UNV	33	3500K	3,4
D	1X4 SURFACE MOUNTED LED EXTERIOR	CURRENT LIGHTING	91L-P-D-2-STD-4-04-SOF-C5-40K-D100-D01-1C-UNV-H72	UNV	48	4000K	2
E	6" LED RECESSED CANOPY DOWNLIGHT	CURRENT LIGHTING	LTR-6RD-H-35L-DM1-LTR-6RD-T-SH-HL-40K-8-WT-ACL-B6	UNV	42	4000K	
EM	6" LED RECESSED CANOPY DOWNLIGHT WITH EMERGENCY BATTERY BACKUP	CURRENT LIGHTING	LTR-6RD-H-35L-DM1-EMR-LTR-6RD-T-SH-HL-40K-8-WT-ACL-B6	UNV	42	4000K	3,4
Х	LED EXIT SIGN	CURRENT LIGHTING	CEWSRE	UNV	3		3,4
EM	LED EMERGENCY FIXTURE	CURRENT LIGHTING	CU2SO	UNV	4		3,4

REMARKS: 1. FIXTURE TO BE SET AT 40 (4000 LUMENS) IN FIELD BEFORE INSTALLATION.

2. FIXTURES TO BE MOUNTED TO UNDERSIDE OF ROOF. PROVIDE ALL MOUNTING HARDWARE NECESSARY.

Recept.

Kitchen

3. ALL FIXTURES SHOWN WITH AN "EM" DESIGNATION INDICATES AND EMERGENCY FIXTURE. PROVIDE EMERGENGY BATTERY BACKUP FOR EACH FIXTURE INDICATED. 4. ALL "EM" BATTERY BACKUPS WITHIN FIXTURE SHALL BE WIRED TO THE UNSWITCHED HOT LEG OF THE CIRCUIT FEEDING IT.

PANEL: 1LNL16	
LOCATION: ST. 302B	A.I.C. RATING:
VOLTAGE:	MCB RATING: Type 1
FED FROM: MDP	MAIN BUS RATING: 800 A
MOUNTING: Surface	

BR	RKR	LOAD DESCRIPTION	A (VA)	B (\	VA)	C (VA)	LOAD DESCRIPTION	BF	RKR	
			14050	6485								2
150	0 3	ERU-10			14050	6485			ERU-11	3	70	4
5							14050	6485				
7			7205	7205								
60) 3	ACC-19			7205	7205			ACC-20	3	60	1
1							7205	7205				1
3			7205	7205								1
5 60) 3	ACC-21			7205	7205			ACC-22	3	60	
7							7205	7205				1
9			5164	7686								2
1 50) 3	RTU-3			5164	7686			RTU-2	3	80	
3							5164	7686				1
5			11889	11889								1
	5 3	ERU-8			11889	11889			ERU-7	3	125	
9							11889	11889				
1			7205	7205								,
3 60) 3	ACC-14			7205	7205			ACC-13	3	60	<u> </u> ;
5							7205	7205				(
7			7205	7205	7005	7005						4
9 60) 3	ACC-16			7205	7205	7005	7005	ACC-15	3	60	4
1		00.405		7005			7205	7205				4
3 20		SPARE	0	7205		7005			100 17		1,0	4
5 20		SPARE			0	7205	0	7005	ACC-17	3	60	4
7 20		SPARE					0	7205	10D 4 OF			4
9	-	SPACE							SPACE			5
1	1	SPACE							SPACE	- 1		5
3	I	SPACE	1000	20.144	1000	20.144			SPACE		L	į
		TOTAL LOA	. D 12200	08 VA	12200	08 VA	12200	08 VA				

	IOIA	L LOAD 122008 V/	A 122008 VA	122008 VA	
	Load Clas	ssification			Panel Totals
Load	Connected VA	Demand Factor	Demand VA		Connected Load 366025 VA
Recept.					Estimated Load 274518 VA
Lighting					Connected Amps 1016 A
HVAC					Demand Amps 762 A
Motors					
Refria.					

EQUIPMENT	LOCATION	HP/FLA	VOLTS	PHASE	AMPS	BREAKER SIZE	WIRE/CONDUIT SIZE	PANEL/CIRCUIT	REMARK
SSI-1	5TH GRADE 411	0.62A	208	1	0.62A		2 #12, 1 #12 GND IN 3/4" C		
SSI-2	5TH GRADE 411	0.62A	208	1	0.62A	-	2 #12, 1 #12 GND IN 3/4" C		
SSI-3	4TH GRADE 409	0.62A	208	1	0.62A	-	2 #12, 1 #12 GND IN 3/4" C		
SSI-4	4TH GRADE 409	0.62A	208	1	0.62A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-5	5TH GRADE 407	0.62A	208	1	0.62A	- 20A/2P	2 #12. 1 #12 GND IN 3/4" C	1LNL11/1,3	1,2
SSI-6	5TH GRADE 407	0.62A	208	1	0.62A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-7	5TH GRADE 405	0.62A	208	1	0.62A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-8	5TH GRADE 405	0.62A	208	1	0.62A		2 #12, 1 #12 GND IN 3/4" C		
SSI-9	5TH GRADE 410	0.62A	208	1	0.62A		2 #12, 1 #12 GND IN 3/4" C		
SSI-10	5TH GRADE 410	0.62A	208	1	0.62A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-10	5TH GRADE 408	0.62A	208	1	0.62A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-12	5TH GRADE 408	0.62A	208	1	0.62A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL11/2,4	1,2
						204/2F	,		1,2
SSI-13	5TH GRADE 406	0.62A	208	1	0.62A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-14	5TH GRADE 406	0.62A	208	1	0.62A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-15	CONFERENCE ROOM 404	0.62A	208	1	0.62A		2 #12, 1 #12 GND IN 3/4" C		
SSI-16	ASSISTANT PRINCIPAL 400B	0.41	208	1	0.34A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-17	PRINCIPAL 400C	0.41	208	1	0.34A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL11/5,7	1,2
SSI-18	MAIN OFFICE 400	0.41	208	1	0.34A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-19	MAIN OFFICE 400	0.41	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-20	4TH GRADE 106	0.84	208	1	0.34A	-	2 #12, 1 #12 GND IN 3/4" C		
SSI-21	4TH GRADE 106	0.84	208	1	0.34A	-	2 #12, 1 #12 GND IN 3/4" C		
SSI-22	5TH GRADE 108	0.84	208	1	0.34A	- 20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL12/1,3	1,2
SSI-23	5TH GRADE 108	0.84	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C	. = = , .	
SSI-24	4TH GRADE 110	0.84	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-25	4TH GRADE 110	0.84	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-26	4TH GRADE 111	0.84	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-27	4TH GRADE 111	0.84	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-28	4TH GRADE 109	0.84	208	1	0.34A	-	2 #12, 1 #12 GND IN 3/4" C		
SSI-29	4TH GRADE 109	0.84	208	1	0.34A	-	2 #12, 1 #12 GND IN 3/4" C		
SSI-30	MAKERSPACE 107	0.84	208	1	0.34A	- 20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL12/2,4	1,2
SSI-31	MAKERSPACE 107	0.84	208	1	0.34A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-32	4TH GRADE 105	0.84	208	1	0.34A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-33	4TH GRADE 105	0.84	208	1	0.34A	-	2 #12, 1 #12 GND IN 3/4" C		
SSI-34	BOOK ROOOM 101A	0.41	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-35	ENL 101G	0.41	208	1	0.34A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-36	MAC LAB 200B	0.41	208	1	0.34A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-37	MAC LAB 200	0.41	208	1	0.34A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL12/5,7	1,2
SSI-38	PSYCH. 202	0.41	208	1	0.34A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-39	PSYCH. 204			1	0.34A 0.34A	_	,		
		0.41	208				2 #12, 1 #12 GND IN 3/4" C		
SSI-40	4TH GRADE 206	0.84	208	1	0.34A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-41	4TH GRADE 206	0.84	208	1	0.34A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-42	3RD GRADE 208	0.84	208	1	0.34A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL12/6,8	1,2
SSI-43	3RD GRADE 208	0.84	208	1	0.34A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-44	TECH. 210	0.84	208	1	0.34A	-	2 #12, 1 #12 GND IN 3/4" C		
SSI-45	TECH. 210	0.84	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-46	3RD GRADE 209	0.84	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-47	3RD GRADE 209	0.84	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-48	4TH GRADE 207	0.84	208	1	0.34A	- 20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL12/9,11	1,2
SSI-49	4TH GRADE 207	0.84	208	1	0.34A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LINL 12/9, 11	1,2
SSI-50	3RD GRADE 205	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-51	3RD GRADE 205	0.34	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-52	I.T. 201B	0.41	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-53	RESOURCE ROOM 202A	0.41	208	1	0.34A	-	2 #12, 1 #12 GND IN 3/4" C		
SSI-54	NURSE 212	0.41	208	1	0.34A	- 20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL13/1,3	1,2
SSI-55	NURSE 212A	0.41	208	1	0.34A	-	2 #12, 1 #12 GND IN 3/4" C		
SSI-56	MUSIC 300C	0.84	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-57	MUSIC 300C	0.84	208	1	0.34A	-	2 #12, 1 #12 GND IN 3/4" C		
SSI-58	O.T. 300B	0.41	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C	1LNL13/2,4	1,2
SSI-59	READING 300A	0.41	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C	· - · · · · · · · · · · · · · · · · · ·	1,2
						-	,		
SSI-60	COPY/ST. 302	0.84	208	1	0.34A		2 #12, 1 #12 GND IN 3/4" C		
SSI-61	3RD GRADE 301	0.84	208	1	0.34A	_	2 #12, 1 #12 GND IN 3/4" C		
SSI-62	3RD GRADE 301	0.84	208	1	0.34A	_	2 #12, 1 #12 GND IN 3/4" C		
	3RD GRADE 301A	0.84	208	1	0.34A	20A/2P	2 #12, 1 #12 GND IN 3/4" C	1LNL13/5,7	1,2
SSI-63				1 .	0.044		2 #12, 1 #12 GND IN 3/4" C		1
SSI-64	3RD GRADE 301A	0.84	208	1	0.34A	_	,		
	3RD GRADE 301A ART 301B ART 301B	0.84 0.84 0.84	208 208 208	1	0.34A 0.34A		2 #12, 1 #12 GND IN 3/4" C		

2. REMOVE EXISTING 1-POLE CIRCUIT BREAKERS IN SPACES INDICATED. PLACE 1-POLE CIRCUIT BREAKERS IN OPEN SPACES WITHIN PANEL.



50 Front Street Suite 202, Newburgh, NY 12550 CPLteam.com

PROJECT INFORMATION

Project Number 14457.20

Client Name SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

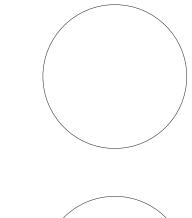
SOUTH ORANGETOWN CSD

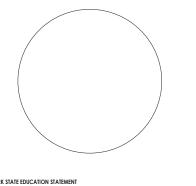
☐ WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 ☐ TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032 ☐ WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020 COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001 CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001 TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS





SHEET INFORMATION

Issued 12/21/22 12" = 1'-0" Project Status BID DOCUMENTS

Drawn By MAY Drawing Title

ELECTRICAL SCHEDULES



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PROJECT INFORMATION

Project Number 14457.20

Client Name
SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT

PHASE 1: 2022 BOND

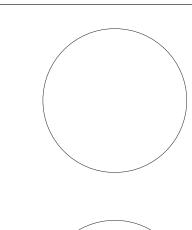
District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

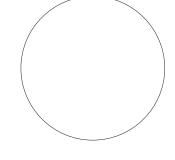
SOUTH ORANGETOWN CSD

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS





NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S
REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED
ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM
BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING
PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED
THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF
ALTERATION.

THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND ALTERATION.

SHEET INFORMATION

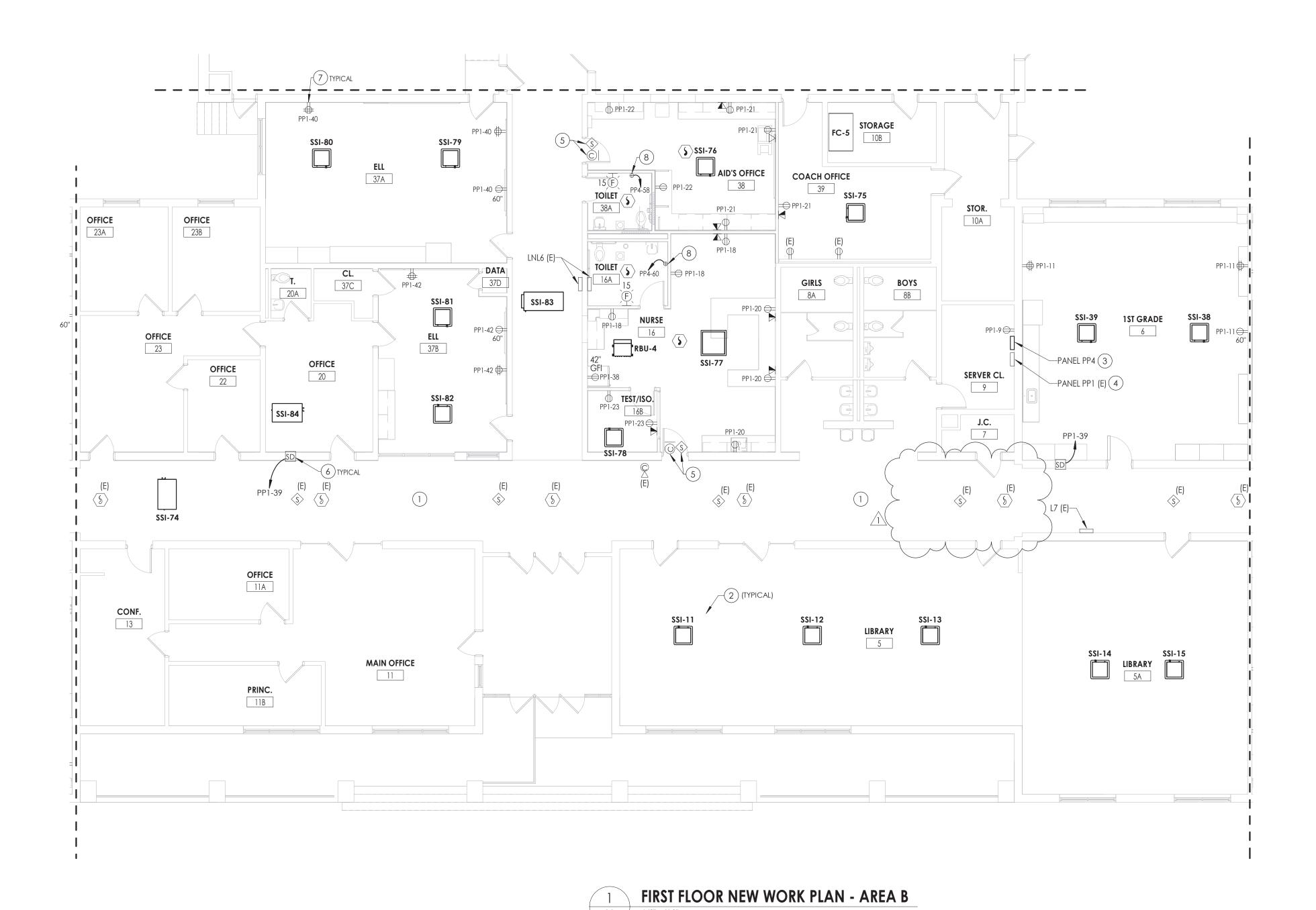
Scale

KEY PLAN:

Issued Scale
10/18/2023 AS NOTED
Project Status
BID DOCUMENTS
Drawn By Checked By
MAY JBT

Drawing Title
ROOF DEMOLITION PLAN-AREA B

Drawing Number WOS



GENERAL NOTES

- A. FOR ALL 120V DEVICES SHOWN, WIRE WITH (2)#12, #12G IN 3/4"C AND CONNECT TO 20A/1P CIRCUIT BREAKER IN PANEL INDICATED TO CIRCUIT INDICATED ADJACENT TO DEVICE.
- B ALL CIRCUITS OVER 100' SHALL BE WIRED WITH #10 THHN.

KEY NOTES

- (1) EXISTING CEILING MOUNTED DEVICES TO BE RE-INSTALLED BACK IN CEILING AS NECESSARY TO ACCOMMODATE ANY CEILING REMOVAL/REPLCAEMENTS. CONNECT TO EXISTING TAGGED WIRING.
- (2) ALL MECHANICAL EQUIPMENT POWER REQUIREMENTS ARE NOTED ON DRAWINGS E901, E902, AND E903. LABEL INDICATES EQUIPMENT TAG. REFER TO RESPECTIVE TAG ON DRAWINGS NOTED.
- (3) PROVIDE A 120/208V, 3-PHASE, 4-WIRE, 800-AMP, 66 CIRCUIT PANELBOARD AT LOCATION INDICATED. PROVIDE (2) SETS OF (4) #500 MCM, (1) #3 GND IN (2) 4" C FROM NEW PANEL TO MDP, REFER TO DRAWING WOS-E204.
- 4) UTILIZE EXISTING 20A, 1-POLE CIRCUIT BREAKERS IN EXISTING PANELBOARD.
- 5 NEW LOCATION OF EXISTING CLOCK/SPEAKER UNITS. CONNECT TO EXISTING TAGGED WIRING.
- 6) PROVIDE FIRE/SMOKE DAMPER FIRE ALARM RELAY AT LOCATIONS INDICATED. PROVIDE WIRING TO CONNECT TO EXISTING FIRE ALARM SYSTEM. PROVIDE (2) #12, (1) #12GND IN 3/4" CONDUIT TO FIRE/SMOKE DAMPER ACTUATOR FROM PANEL AND CIRCUIT INDICATED.
- 7) NEW RECEPTACLES TO BE PLACED IN WIREMOLD AT THESE LOCATIONS. WIREMOLD BY OTHERS. COORDINATE FINAL LOCATIONS WITH OWNER AND T-SERIES DRAWINGS.
- 8 PROVIDE (2) #12, (1) #12 GND IN 3/4" CONDUIT FROM PANEL PP4 TO EACH HAND DRYER LOCATION INDICATED.



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PROJECT INFORMATION

Project Number 14457.20

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

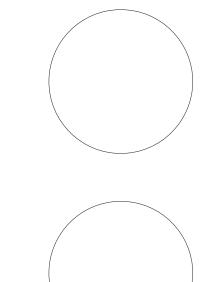
SOUTH ORANGETOWN CSD

WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032 WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020 COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023 COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001 CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001 TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS

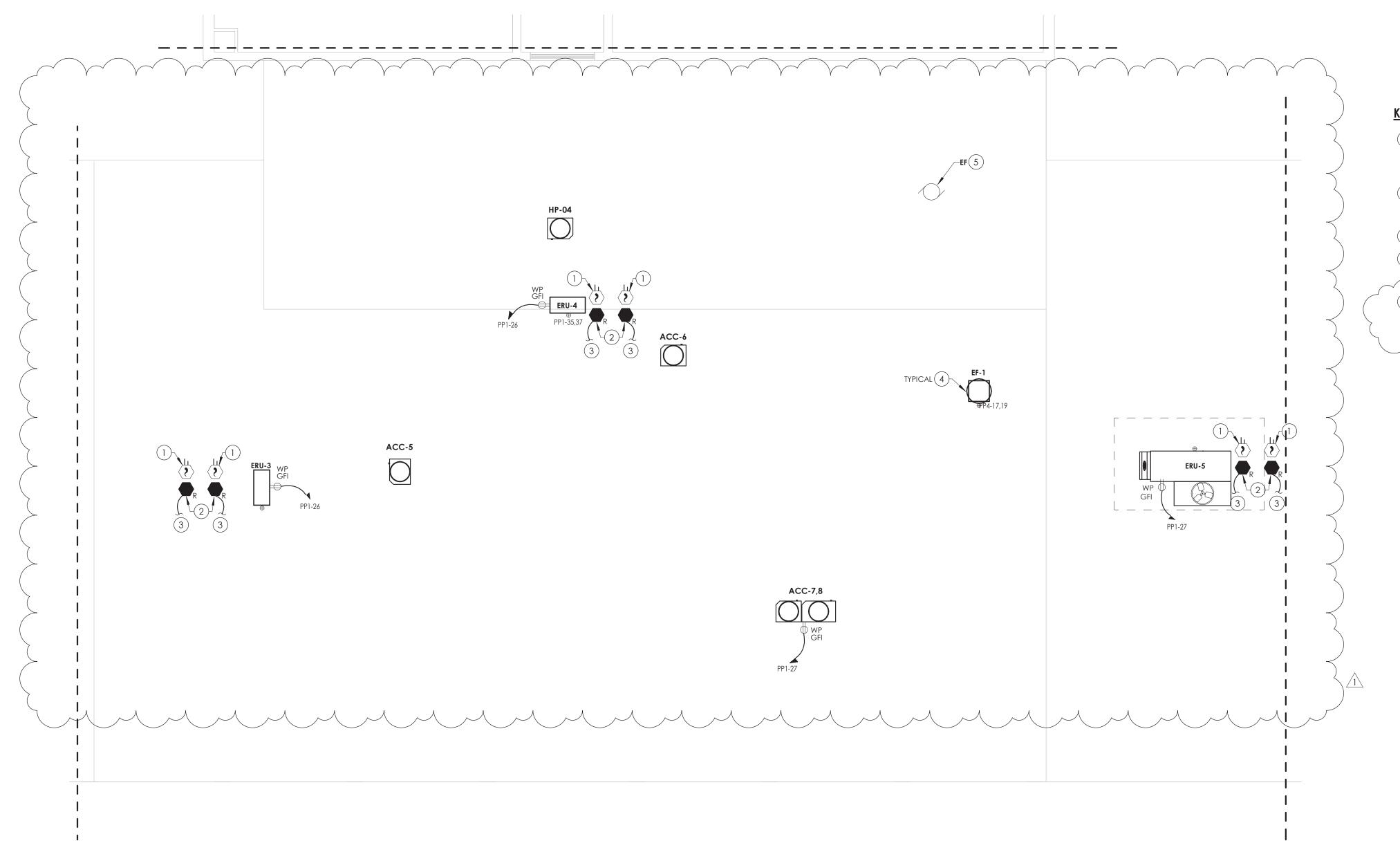


SHEET INFORMATION

10/18/2023 1/8" = 1'-0" Project Status BID DOCUMENTS Drawn By MAY

FIRST FLOOR NEW WORK PLAN -

KEY PLAN:



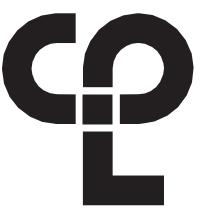
ROOF NEW WORK PLAN - AREA B

GENERAL NOTES

- A. FOR ALL 120V DEVICES SHOWN, WIRE WITH (2)#12, #12G IN 3/4"C AND CONNECT TO 20A/1P CIRCUIT BREAKER IN PANEL INDICATED TO CIRCUIT INDICATED ADJACENT TO DEVICE.
- B. ALL CIRCUITS OVER 100' SHALL BE WIRED WITH #10 THHN.

KEY NOTES

- PROVIDE DUCT SMOKE DETECTOR FOR RETURN AND SUPPLY LINES OF RTU'S.
 SHOWN HERE FOR CLARITY BUT ARE IN FIRST FLOOR CEILING PLAN. PROVIDE
 FAN SHUT DOWN RELAYS SO THAT UNIT WILL SHUT DOWN ALL FANS ASSOCIATED
 WITH UNIT ON ACTIVATION OF THE BUILDING FIRE ALARM PANEL.
- 2 PROVIDE FAN SHUT DOWN RELAYS AT HVAC EQUIPMENT CONTROLS.
 INTERCONNECT RELAYS TO BUILDING FIRE ALARM SYSTEM TO SHUT DOWN FAN MOTORS WHEN THE FIRE ALARM IS ACTIVATED.
- 3 PROVIDE ASSOCIATED REMOTE TEST SWITCHES IN CEILING SPACE BELOW.
- 4) ALL MECHANICAL EQUIPMENT POWER REQUIREMENTS ARE NOTED ON DRAWINGS E901, E902, AND E903. LABEL INDICATES EQUIPMENT TAG. REFER TO RESPECTIVE TAG ON DRAWINGS NOTED.
- (5) CONNECT NEW EXHAUST FAN TO EXISTING TAGGED CIRCUITRY.
 REWORK/EXTEND CIRCUITRY AS NECESSARY TO ACCOMMODATE NEW
 EQUIPMENT AND ROOF CURB.



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Newburgh, NY 12550
CPLteam.com



PROJECT INFORMATION
Project Number

14457.20

Client Name
SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address
160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019

COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022

TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032

WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020

COTTAGE LANE S&L SED#: 50-03-01-06-0-10-023

COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002

WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001

SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001

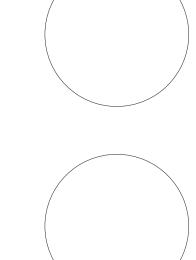
CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001

TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT

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Issued Scale
10/18/2023 AS NOTED
Project Status

Project Status
BID DOCUMENTS
Drawn By Checked By
MAY JBT

ROOF NEW WORK PLAN - AREA B

WOS F211

E F
D

KEY PLAN:

EQUIPMENT	LOCATION	HP/FLA	VOLTS	PHASE	AMPS	BREAKER SIZE	WIRE/CONDUIT SIZE	PANEL/CIRCUIT	REMARKS
ERU-01	ROOF	99A	208	3	99A	125A/3P	(3) #1, (1) #6GND IN 1-1/2" C	PP4/49,51,53	1
ERU-02	ROOF	78A	208	3	78A	100A/3P	(3) #2, (1) #8GND IN 1-1/2" C	PP4/52,54,56	1
ERU-03	ROOF	10.8A	208	1	10.8A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP1/34,36	1
ERU-04	ROOF	10.8A	208	1	10.8A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP1/35,37	1
ERU-05	ROOF	54A	208	3	54A	70A/3P	(3) #4, (1) #8GND IN 1-1/4" C	PP4/28,30,32	1
ERU-06	ROOF	99A	208	3	99A	125A/3P	(3) #1, (1) #6GND IN 1-1/2" C	PP5/30,32,34	1
ERU-07	ROOF	54A	208	3	54A	70A/3P	(3) #4, (1) #8GND IN 1-1/4" C	PP5/31,33,35	1
ERU-08	ROOF	54A	208	3	54A	70A/3P	(3) #4, (1) #8GND IN 1-1/4" C	PP5/36,38,40	1
ERU-09	ROOF	99A	208	3	99A	125A/3P	(3) #1, (1) #6GND IN 1-1/2" C	PP3/1,3,5	1
ERU-10	ROOF	78A	208	3	78A	100A/3P	(3) #2, (1) #8GND IN 1-1/2" C	PP3/2,4,6	1
ERU-11	ROOF	78A	208	3	78A	100A/3P	(3) #2, (1) #8GND IN 1-1/2" C	PP3/7,9,11	1
ERU-12	ROOF	54A	208	3	54A	70A/3P	(3) #4, (1) #8GND IN 1-1/4" C	PP3/26,28,30	1
ERU-13	ROOF	120A	208	3	120A	150A/3P	(3) #2/0, (1) #6GND IN 2-1/2" C	PP3/31,33,35	1
ACO-01	ROOF	120/1	208	~	/50A	50A/3P	(3),#6, (1) #10GND IN 1°C	PP4/31,33,85	1
				,					
ACC-02	ROOF	-	208	3	60A	60A/3P	(3) #6, (1) #10GND IN 1" C	PP4/37,39,41	1
ACC-03	ROOF	-	208	3	50A	50A/3P	(3) #6, (1) #10GND IN 1" C	PP4/34,36,38	1
ACC-04	ROOF	-	208	3	60A	60A/3P	(3) #6, (1) #10GND IN 1" C	PP4/40,42,44	1
ACC-05	ROOF	-	208	3	71A	90A/3P	(3) #3, (1) #8GND IN 1-1/4" C	PP4/43,45,47	1
ACC-06	ROOF	-	208	3	29.3A	40A/3P	(3) #8, (1) #10GND IN 1" C	PP4/22,24,26	1
ACC-07	ROOF	-	208	3	49.8A	60A/3P	(3) #6, (1) #10GND IN 1" C	PP1/28,30,32	1
ACC-08	ROOF	-	208	3	49.8A	60A/3P	(3) #6, (1) #10GND IN 1" C	PP1/29,31,33	1
ACC-09	ROOF	-	208	3	60A	60A/3P	(3) #6, (1) #10GND IN 1" C	PP5/19,21,23	1
ACC-10	ROOF	-	208	3	50A	50A/3P	(3) #6, (1) #10GND IN 1" C	PP5/12,14,16	1
ACC-11	ROOF	-	208	3	59.8A	70A/3P	(3) #4, (1) #8GND IN 1-1/4" C	PP5/13,15,17	1
ACC-12	ROOF	-	208	3	59.8A	70A/3P	(3) #4, (1) #8GND IN 1-1/4" C	PP5/18,20,22	1
ACC-13	ROOF	_	208	3	71A	90A/3P	(3) #3, (1) #8GND IN 1-1/4" C	PP5/24,26,28	1
ACC-14	ROOF	-	208	3	71A	90A/3P	(3) #3, (1) #8GND IN 1-1/4" C	PP5/25,27,29	1
ACC-15	ROOF	-	208	3	59.8A	70A/3P	(3) #4, (1) #8GND IN 1-1/4" C	PP3/32,34,36	1
ACC-16	ROOF	-	208	3	59.8A	70A/3P	(3) #4, (1) #8GND IN 1-1/4" C	PP3/37,39,41	1
ACC-17	ROOF	-	208	3	29.8A	40A/3P	(3) #8, (1) #10GND IN 1" C	PP3/38,40,42	1
ACC-18	ROOF	-	208	3	50A	50A/3P	(3) #6, (1) #10GND IN 1" C	PP3/8,10,12	1
ACC-19	ROOF	-	208	3	60A	60A/3P	(3) #6, (1) #10GND IN 1" C	PP3/13,15,17	1
ACC-20	ROOF	-	208	3	50A	50A/3P	(3) #6, (1) #10GND IN 1" C	PP3/14,16,18	1
ACC-21	ROOF	-	208	3	60A	60A/3P	(3) #6, (1) #10GND IN 1" C	PP3/19,21,23	1
ACC-22	ROOF	-	208	3	50A	50A/3P	(3) #6, (1) #10GND IN 1" C	PP3/20,22,24	1
ACC-23	ROOF	-	208	3	60A	60A/3P	(3) #6, (1) #10GND IN 1" C	PP3/25,27,29	1
SSI-1	KINDERGARTEN 32	3.15A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-2	KINDERGARTEN 32	3.15A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-3	KINDERGARTEN 21	3.15A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP4/13,15	1
SSI-4	KINDERGARTEN 21	3.15A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-5	KINDERGARTEN 19	3.15A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-6	KINDERGARTEN 19	3.15A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
	1ST GRADE 17			· ·					
SSI-7	-	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP4/10,12	1
SSI-8	1ST GRADE 17	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-9	FIRST GRADE 15	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-10	FIRST GRADE 15	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-11	LIBRARY 5	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-12	LIBRARY 5	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-13	LIBRARY 5	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP4/14,16	1
\$SI-14	LIBRARY FA	0.344	208	1	15/4		(2) #12, (1) #12 GND IN 3/4" C		
SSI-15	LIBRARY 5A	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-17	MAKERSPACE 3	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-18	MAKERSPACE 3	0.34A	208	1	15A		(2) #12, (1) #12 GNØ IN 3/4" C		
SSI-19	1ST GRADE 1	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP5/1,3	1
SSI-20	1ST GRADE 1	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
-				1					
SSI-21	KINDERGARTEN 104	0.34A	208		15A	_	(2) #12, (1) #12 GND IN 3/4" C		
SSI-22	KINDERGARTEN 104	0.34A	208	1	15A	_	(2) #12, (1) #12 GND IN 3/4" C		
SSI-23	OT/PT 105	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP5/4,6	1
SSI-24	OT/PT 105	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-25	SUPPORT M3	0.88A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-26	KINDERGARTEN 103	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-27	KINDERGARTEN 103	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-28	KINDERGARTEN 102	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-29	KINDERGARTEN 102	0.34A	208	1	15A	20A2P	(2) #12, (1) #12 GND IN 3/4" C	PP5/9,11	1
						-	(2) #12, (1) #12 GND IN 3/4" C		
SSI-30	KINDERGARTEN 101	0.34A	208	1 1	15A		(/) #1/ (1 #1/ (akii i iki 3// i		

331-31	KINDLINGAKTEN 101	0.547	200	'	13/4	(2) #12, (1) #12 GND IN 3/4 C		
	ACTOR IS RESPONSIBLE FOR THE MOUN T PROVIDE BY MECHANICAL CONTRACTO	,				 DEVICE ASSOCIATED WITH UNIT. MEANS OF STO EQUIPMENT.	F DISCONNECT AND/OR START	ER

^{2.} REMOVE 1-POLE CIRCUIT BREAKERS IN SPACES INDICATED. TURN BREAKERS OVER TO OWNER.

		LUMINA	AIRE SCHEDULE				
						LAMP	-
MARK	DESCRIPTION	DESIGN MAKE	MODEL NUMBER	VOLTS	WATTS	TEMPERATURE	REMARKS:
А	2X2 RECESSED LED TROFFER	CURRENT LIGHTING	LCAT22-9-35-HL-G-ED1-U	UNV	32	3500K	
A/EM	2X2 RECESSED LED TROFFER WITH EMERGENCY BATTERY BACKUP	CURRENT LIGHTING	LCAT22-9-35-HL-G-ED1-U-ELL14	UNV	32	3500K	3,4
В	6" RECESSED LED DOWNLIGHT	CURRENT LIGHTING	LTR-6RD-H-ML-20L-DM01-LTR-6RD-T-ML-35K-9-MD-SS-WT-FMR6-R	UNV	22	3500K	
С	2X2 RECESSED LED FLAT PANEL	CURRENT LIGHTING	CFP22-40/33/2835	UNV	40/28	3500K	1
C/EM	2X2 RECESSED LED FLAT PANEL EMERGENCY BATTERY BACKUP	CURRENT LIGHTING	CFP22-40/33/2835-ELL14	UNV	40/28	3500K	1,3,4
D	2X4 RECESSED LED TROFFER	CURRENT LIGHTING	LCAT24-35-LW-G-ED1-U	UNV	36	3500K	
D/EM	2X4 RECESSED LED TROFFER EMERGENCY BATTERY BACKUP	CURRENT LIGHTING	LCAT24-35-LW-G-ED1-U-ELL14	UNV	36	3500K	3,4
Е	1X4 RECESSED LED TROFFER	CURRENT LIGHTING	LCAT14-9-35-LW-G-ED1-U	UNV	36	3500K	5
E/EM	1X4 RECESSED LED TROFFER WITH EMERGENCY BATTERY BACKUP	CURRENT LIGHTING	LCAT14-9-35-LW-G-ED1-U-ELL14	UNV	36	3500K	3,4,5
F	1X4 SURFACE MOUNTED LED EXTERIOR	CURRENT LIGHTING	91L-P-D-2-STD-4-04-SOF-C5-40K-D100-D01-1C-UNV-H72	UNV	48	4000K	2
Х	LED EXIT SIGN	CURRENT LIGHTING	CEWSRE	UNV	3		3,4
EM	LED EMERGENCY FIXTURE	CURRENT LIGHTING	CU2SO	UNV	4		3,4
REMARKS:		HE SINGLE GANG TOILET ROOMS HARDWARE NECESSARY. ' FIXTURE. PROVIDE EMERGENG	WITHIN THE CLASSROOMS, FIXTURES TO BE SET AT 28 (2800 LUMENS). SY BATTERY BACKUP FOR EACH FIXTURE INDICATED.		7		5,1

5. PROVIDE FIXTURES WITH GYP CEILING KIT FK14.

CPL | Architecture Engineering Planning
50 Front Street Suite 202,
Newburgh, NY 12550

CPLteam.com



PROJECT INFORMATION

14457.20 Client Name

Project Number

SOUTH ORANGETOWN CENTRAL SCHOOL DISTRICT
Project Name

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

■ WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019

□ COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022

□ TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-010-022

□ WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020

□ COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023

□ COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023

□ COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002

□ WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

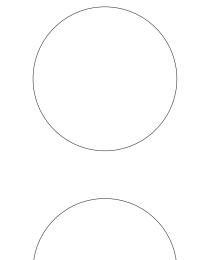
□ SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

□ TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE No. Date Description

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS





THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION ALTERATION.

SHEET INFORMATION

MAY JBT

Drawing Title

ELECTRICAL SCHEDULES

WOS E900

		_							
EQUIPMENT	LOCATION	HP/FLA	VOLTS	PHASE	AMPS	BREAKER SIZE	WIRE/CONDUIT SIZE	PANEL/CIRCUIT	REMARKS:
EF-1	ROOF	1-1/2HP	208	1	11A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP4/17,19	1,2
SSO-1	ROOF	120A	208	3	150A	150A/3P	(3) #2/0, (1) #6GND IN 2" C	PP4/46,48,50	1
VSSO-2	ROOF	75A	208	3	100A	100A/3P	(3) #2, (Y) #8 IN 1-1/4 VC	PP2/29,31,33	Y
HP-04	ROOF	38A	208	3	40A	50A/3P	(3) #6, (1) #10 GND IN 1" C	PP4/25,27,29	1
RBU-1	CORRIDOR	339W 339W	208	1	1A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP4/9,11	
RBU-4	NURSE 16	226W	208	1	1A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP4/5,7	1
RBU-6	CORRIDOR	339W	208	1	1A		(2) #12, (1) #12 GND IN 3/4" C		
RBU-7	CORRIDOR	226W	208	1	1A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP5/5,7	1
RBU-8	CORRIDOR	226W	208	1	1A		(2) #12, (1) #12 GND IN 3/4" C		
RBU-9	CORRIDOR	339W	208	1	1A		(2) #12, (1) #12 GND IN 3/4" C		
RBU-10	CORRIDOR	339W	208	1	1A	004/00	(2) #12, (1) #12 GND IN 3/4" C	DD0/00 20	4
RBU-11	CORRIDOR	339W	208	1	1A	- 20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP2/28,30	1
RBU-12	ROOF	339W	208	1	1A		(2) #12, (1) #12 GND IN 3/4" C		

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE MOUNTING, AND LINE/LOAD SIDE CONNECTIONS OF DISCONNECT AND/OR STARTER DEVICE ASSOCIATED WITH UNIT. MEANS OF DISCONNECT AND/OR STARTER ASSOCIATED WITH UNIT PROVIDE BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS TO EQUIPMENT.

2. PROVIDE FIRE ALARM RELAY AT EXHAUST FAN AND TIE INTO EXISTING FIRE ALARM SYSTEM

EQUIPMENT	LOCATION	HP/FLA	VOLTS	PHASE	AMPS	BREAKER SIZE	WIRE/CONDUIT SIZE	PANEL/CIRCUIT	REMARK
SSI-32	SPEC. ED. 100	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-33	SPEC. ED. 100	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-34	1ST GRADE 2	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-35	1ST GRADE 2	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP5/8,10	1
SSI-36	1ST GRADE 4	0.34A	208	1	15A	20/1/21	(2) #12, (1) #12 GND IN 3/4" C	11 0/0,10	'
SSI-37	1ST GRADE 4	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-38	1ST GRADE 6	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-39	1ST GRADE 6	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-40	MUSIC 62	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-41	MUSIC 62	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-42	2ND GRADE 64	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-43	2ND GRADE 64	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-44	2ND GRADE 66	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-45	2ND GRADE 66	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	- PP2/21,23	1,2
SSI-46	2ND GRADE 68	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-47	2ND GRADE 68	0.34A	208	1	15A	-	(2) #12, (1) #12 GND IN 3/4" C		
SSI-48	1ST GRADE 70	0.34A	208	1	15A	_	(2) #12, (1) #12 GND IN 3/4" C		
SSI-49	1ST GRADE 70	0.34A	208	1	15A	-	(2) #12, (1) #12 GND IN 3/4" C	1	
SSI-50	2ND GRADE 72	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-51	2ND GRADE 72	0.34A	208	1		-	(2) #12, (1) #12 GND IN 3/4" C		
SSI-52	ART 74	0.34A	208	1	15A	_	(2) #12, (1) #12 GND IN 3/4" C		
SSI-53	ART 74	0.34A	208	1	15A	_	(2) #12, (1) #12 GND IN 3/4" C		
SSI-54	1ST GRADE 71	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	- PP2/25,27	1
SSI-55	1ST GRADE 71	0.34A	208	1	15A	_	(2) #12, (1) #12 GND IN 3/4" C		
SSI-56	1ST GRADE 69	0.34A 0.34A	208	1	15A 15A	_	(2) #12, (1) #12 GND IN 3/4" C		
						_			
SSI-57	1ST GRADE 69	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-58	2ND GRADE 67	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-59	2ND GRADE 67	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-60	2ND GRADE 69	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-61	2ND GRADE 65	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP2/32,34	1
SSI-62	2ND GRADE 63	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-63	2ND GRADE 63	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-64	1ST GRADE 61	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-65	1ST GRADE 61	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-66	2ND GRADE 59	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-67	2ND GRADE 59	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-68	2ND GRADE 57	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP2/20,22	1,2
SSI-69	2ND GRADE 57	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-70	STAFF LOUNGE 51	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-71	ENL 44	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-72	OFFICE 42	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP2/24,26	1
SSI-73	P.E. OFFICE 80C	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-74	CORRIDOR	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP4/1,3	1
SSI-75	COACH OFFICE 39	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-76	AID'S OFFICE 38	0.34A	208	1	15A	1	(2) #12, (1) #12 GND IN 3/4" C		
SSI-77	NURSE 16	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	- PP4/4,6	1
SSI-78	TEST/ISO 16B	0.34A	208	1	15A	1	(2) #12, (1) #12 GND IN 3/4" C		
SSI-79	ENL 37A	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		
SSI-80	ENL 37A	0.34A	208	1	15A	-	(2) #12, (1) #12 GND IN 3/4" C		
SSI-81	ENL 37B	0.34A	208	1	15A	+	(2) #12, (1) #12 GND IN 3/4" C	-	
SSI-82	ENL 37B	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP4/21,23	1
SSI-83	CORRIDOR	0.34A	208	1	15A	+	(2) #12, (1) #12 GND IN 3/4" C		
SSI-84	OFFICE 20	1.39A	208	1	15A	+	(2) #12, (1) #12 GND IN 3/4" C		
SSI-85	KINDERGARTEN 24	0.34A	208	1	15A 15A		(2) #12, (1) #12 GND IN 3/4" C		
						-		-	
SSI-86	KINDERGARTEN 24	0.34A	208	1	15A	-	(2) #12, (1) #12 GND IN 3/4" C		
SSI-87	KINDERGARTEN 26	0.34A	208	1	15A	20A/2P	(2) #12, (1) #12 GND IN 3/4" C	PP4/18,20	1
SSI-88	KINDERGARTEN 26	0.34A	208	1	15A	_	(2) #12, (1) #12 GND IN 3/4" C	-	
SSI-89	KINDERGARTEN 30	0.34A	208	1	15A	-	(2) #12, (1) #12 GND IN 3/4" C	-	
SSI-90	KINDERGARTEN 30	0.34A	208	1	15A		(2) #12, (1) #12 GND IN 3/4" C		

2. REMOVE EXISTING 1-POLE CIRCUIT BREAKERS IN SPACES INDICATED. PLACE 1-POLE CIRCUIT BREAKERS IN OPEN SPACES WITHIN PANEL.



CPLteam.com



PROJECT INFORMATION

14457.20

Client Name
SOUTH ORANGETOWN CENTRAL
SCHOOL DISTRICT

PHASE 1: 2022 BOND

District Office Address 160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD

■ WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019

□ COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022

□ TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032

□ WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020

□ COTTAGE LANE S&L SED#: 50-03-01-06-0-010-023

□ COTTAGE LANE S&L SED#: 50-03-01-06-8-023-002

□ WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001

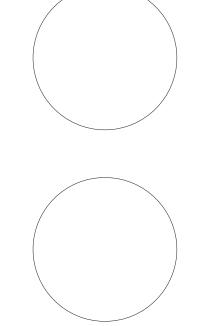
□ SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

□ CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE No. Date Description

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS



NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY, IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED E THEIR SIGNATURE AND THE PATE OF SUCH A TIERRING AND A SPECIAL OF PROFIPEION OF

SHEET INFORMATION

Issued

10/18/2023
12" = 1'-0"
Project Status
BID DOCUMENTS
Drawn By Checked By
MAY JBT
Drawing Title
ELECTRICAL SCHEDULES

WOS F901

	PAI	NI	EL: PP5										
L	OCA	ATIO	ON: SUPPORT M2	Α	.I.C. RA	TING:							
	VOL	TΑ	GE:	٨	ACB RA	TING: 1	Гуре 1						
F	ED F	FRC	DM:	MAIN	BUS RA	TING: 8	800 A						
M	OUN	IITI	NG: Surface										
•••	BRK	(R	LOAD DESCRIPTION	Α (VA)	В (VA)	С (VA)	LOAD DESCRIPTION	В	RKR	
1				A (VA) 	В (VA)	C (VA)	LOAD DESCRIPTION SPACE	B	RKR	
 1 3			LOAD DESCRIPTION SSI-17,18,19,20			B (VA)	C (VA)	SPACE	1		
1 3 5	20	2	SSI-17,18,19,20					C (VA)		1 2		
1	20	2								SPACE - SSI-21,22,23,24,25	2	20	
1 3 5	20	2	SSI-17,18,19,20 RBU-6,7,8	140						SPACE	1	20	
1 3 5 7	20	2	SSI-17,18,19,20	140		140	175			SPACE - SSI-21,22,23,24,25	2	20	

	•••	BRI	KR	LOAD DESCRIPTION	A (VA)	B ('	VA)	C (VA)	LOAD DESCRIPTION	B	RKR	•••
	1	20	2	CCI 17 10 10 00	140						SPACE	1		2
7	3	20	_	SSI-17,18,19,20			140	175			SSI-21,22,23,24,25	2	20	4
	5	20	2	RBU-6,7,8					600	175	331-21,22,23,24,23		20	6
	7	20		KBO-0,7,0	600	280					SSI-32,33,34,35,36,37,38,39	2	20	10
	9	20	2	SSI-26,27,28,29,30,31			210	280			331-32,33,34,33,36,37,36,37		20	
	11	20		331 20,27,20,27,30,01					210	6004				12
	13				7181	6004					ACC-10	3	50	14
	15	70	3	ACC-11			7181	6004					<u> </u>	16
	17								7181	7181				18
	19				7205	7181					ACC-12	3	70	20
	21	60	3	ACC-9			7205	7181	7005	0.507				22
	23				0.50.4	0.507			7205	8526				24
	25			10011	8526	8526	0.50.4	0.507			ACC-13	3	90	26
>	27	90	3	ACC-14			8526	8526	0507	11000				28_
	29				/ 40 5	11000			8526	11889	EDIL /		105	30
	31	70	2	EDIL 7	6485	11889	/ 40 5	11000			ERU-6	3	125	
	33 35	/0	3	ERU-7			6485	11889	6485	6485			_	34
>	37		1	SPACE		6485			0403	6465	ERU-8	3	70	36
	39		1	SPACE		0403		6485			EKU-6	3	/0	40
	41		1	SPACE				0400			SPACE	1		42
	43		1	SPACE							SPACE	1		44
_	45		1	SPACE							SPACE	1		46
	47		1	SPACE							SPACE	1		48
	49		1	SPACE							SPACE	1	<u> </u>	50
	51		† <u>†</u>	SPACE							SPACE	1		52
	53		† i	SPACE							SPACE	1		54
		1		TOTAL LOAD	70.50	2 VA	7028	87 VA		57 VA			1	
	1			ICIALLOAD	, , , , ,	~ */\	/ 020	// * / \	, 040	,, † , \				

Demand VA

158442 VA

Load Classification

75.00%

Load Connected VA Demand Factor

Recept.

HVAC

Motors Refrig. Kitchen

Misc. 211256 VA

017100				· •
SPACE			1	 5
	Pane	Totals		
	Connected Load	211256 \	/A	
	Estimated Load	158442 \	/A	
	Connected Amps	586 A		
	Demand Amps	440 A		

	PA	Ν	EL: PP3											
L	OC/	ΑTI	ON: STORAGE 58	Α	I.C. RA	TING:								
	VOI	.T <i>P</i>	AGE:	٨	ACB RA	TING: T	ype 1							
			OM:			TING: 8								
				MAII	DOS KA		70071							
M	Our	NII	NG: Surface											
•••	BRI	(R	LOAD DESCRIPTION		Δ	Е	3	(LO	AD DESCRIPTION	ВІ	RKR	
1				11649	9367						7.5 5 2 0 0 Km 11 0 K			2
3	125	3	ERU-9		,	11649	9367			ERU-10		3	100	
5								11649	9367					6
7				9367	6004									8
9	100	3	ERU-11			9367	6004			ACC-18		3	50	10
11								9367	6004					12 -
13		_		7205	6004									14
15	60	3	ACC-19			7205	6004			ACC-20		3	50	16
17				7005	400.4			7205	6004					18
19	,,		1.00.01	7205	6004	7005	100.4							20
21	60	3	ACC-21			7205	6004	7005	/00/4	ACC-22		3	50	22
23 25				7205	6485			7205	6004					24
27	60	3	ACC-23	7203	0403	7205	6485			ERU-12		3	70	
29	00	5	ACC-23			7203	0403	7205	6485	ILKU-12			/0	30
31				14411	7181			7 200	0400					32
33	1.50	3	ERU-13	1-1-11	7 101	14411	7181			ACC-15		3	70	34
35							7 101	14411	7181				'	36
37				7181	3578				, , , , ,					38 -
39	70	3	ACC-16			7181	3578			ACC-17		3	40	40
41	1							7181	3578					42
43			SPACE							SPACE		1		44
45			SPACE							SPACE		1		46
47			SPACE							SPACE		1		48
49			SPACE							SPACE		1		50
51			SPACE							SPACE		1		52
53		1	SPACE							SPACE		1		54
			TOTAL LOAI	_	46 VA	10884	16 VA	10884	46 VA					
			Load Classificat	ion							Panel Tota	als		

	Load Cla	ssification			Panel	Totals
Load	Connected VA	Demand Factor	Demand VA		Connected Load	326539 V
Recept.					Estimated Load	244904 V
Lighting					Connected Amps	906 A
HVAC					Demand Amps	680 A
Motors						
Refrig.						
Kitchen						
Misc.	326539 VA	75.00%	244904 VA			
	•			_		

	PA	N	EL: PP	4													
L	oc.	ΔTI	ON: SERV	/ER CL. 9		Α.	I.C. R	ATING:									
	VOI	LTA	GE:			٨	ACB RA	ATING: 1	ype 1								
F	FED	FR	OM:					ATING: 8									
			NG: Surfo	ace													
•	BRI	KR	LC	DAD DESCRIPTIO	N		4		В		C	LOAD DE	SCRIPTIO	N	BF	RKR	
	20	2	SSI-74			35						SPACE			1		2
<u>;</u>	20							35	140	200	140	SSI-75,76,77,78			2	20	4
,	20	2	RBU-4			200				200	140	SPACE			1		
1	20	2	RBU-1,2					400	795	400	795	SSI-5,6,7,8,9,10			2	20	1
3	20	2	SSI-1,2,3,4	1		1310	210			100	,,,	-SSI-11,12,13,14,15	1.6		2	20	1
5	20		331-1,2,3,4	•				1310	210	1144	010	331-11,12,13,14,13	,10		_	20	1
7)	20	2	EF-1			1144	210			1144	210	SSI-85,86,87,88,89	,90		2	20	2
1	20	2	\$\$1.79.80	81,82,83,84				210	3579								1
3	20		331-7 7,00,0	01,02,03,04		4000	2570			210	3579	ACC-6			3	40	_
7	50	3	HP-04			4803	3579	4803	6485						H		
7					-			1000	0.100	4803	6485	ERU-5			3	70	
1_						6004	6485	1001							<u> </u>		
3 5	50	3	ACC-1					6004	6004	6004	6004	ACC-3			3	50	
<u> </u>						7205	6004			0004	0004	7.000					
9	60	3	ACC-2					7205	7205	7005	7005	1.00.1					_ '
<u>1</u> 3						8526	7205			7205	7205	ACC-4			3	60	
<u> </u>	90	3	ACC-5			0020	7200	8526	9006								+
7						11000	0000			8526	9006	SSO-1			3	150	
9 1	125	3	ERU-1			11889	9006	11889	9367						H		
3					-				000.	11889	9367	ERU-2			3	100	
5	20		SPARE			0	9367		500			DOWED				00	
7 ?	20		SPARE SPARE					0	500	0	500	POWER POWER			1	20	
1		1	SPACE									SPACE			1		
3			SPACE									SPACE			1		1
5		1	SPACE	TOTA	L LOAD	8318	3 VA	8367	'4 VA	8367	'3 VA	SPACE			1		-
	-			Load Cla	,		10 VA	0307	7 7/	0307	<u> </u>		Pane	l Totals			_
			Load	Connected VA		nd Facto	or	Demand	I VA			Conn	ected Load		٧A		_
			Recept.										nated Load		VA		
			Lighting HVAC									Conne	cted Amps nand Amps	695 A 522 A			
			Motors									Deli	.ana Amps	J Z Z / \			
_			Refrig.														
			Kitchen	249529 VA	75.00%		1.0	7146 VA									

	PANEL: PP1	
>	LOCATION: SERVER CL. 9	A.I.C. RATING:
	VOLTAGE:	MCB RATING: Type 1
	FED FROM:	MAIN BUS RATING: 225 A

MOUNTING: Surface

PANEL: PP2

MOUNTING: Surface

1 20 1 RECEPTS: 57

3 20 1 RECEPTS: 59

5 20 1 RECEPTS: 61 7 20 1 RECEPTS: 63

9 20 1 RECEPTS: 65 **11** 20 1 RECEPTS: 67

13 20 1 RECEPTS: 69 15 20 1 RECEPTS: 71

31 100 3 SSO-2

19 20 1 RECEPTS: ROOF

VOLTAGE:

FED FROM:

BRKR

LOCATION: STORAGE 58

LOAD DESCRIPTION

17 20 1 RECEPTS: EXTERIOR CLASSROOM

21 20 2 SSI-40,41,42,43,44,45,46,47,48,49

35 20 1 FIRE/SMOKE DAMPER ACTUATORS
37 20 1 SPARE
39 20 1 SPARE
41 20 1 SPARE

Recept. 17640 VA

Misc. 47211 VA

HVAC

Motors

Refrig. Kitchen Load Classification

Load Connected VA Demand Factor Demand VA

25 20 2 SSI-50,51,52,53,54,55,56,57

•••	BRKE	LOAD DESCRIPTION	Α (VA)	B ('	VA)	C (VA)	LOAD DESCRIPTION	В	RKR	
1	20 1	RECEPTS: 32	1080	1080					RECEPTS: 21	1	20	2
3	20 1	RECEPTS: 30			1080	1080			RECEPTS: 19	1	20	4
5	20 1	RECEPTS: 26					1080	1080	RECEPTS: 17	1	20	6
7	20 1	RECEPTS: 24	1080	1080					RECEPTS: 15	1	20	8
9	20 1	RECEPTS: 9			180	1080			RECEPTS: 3	1	20	10
11	20 1	RECEPTS: 6					1080	1080	RECEPTS: 1	1	20	12
13	20 1	RECEPTS: 4	1080	1080					RECEPTS: 104	1	20	14
15	20 1	RECEPTS: 2			1080	1080			RECEPTS: 105	1	20	16
17	20 1	RECEPTS: 100					1080	540	RECEPTS: 16	1	20	18
19	20 1	RECEPTS: 101	1080	540					RECEPTS: 16	1	20	20
21	20 1	RECEPTS: 38, 39			720	360			RECEPTS: 38	1	20	22
23	20 1	RECEPTS: 16B					360	1080	RECEPTS: 102	1	20	24
25	20 1	RECEPTS: 103	1080	360					RECEPTS: ROOF	1	20	26
27	20 1	RECEPTS: ROOF			360	5980						28
29							5980	5980	ACC-7	3	60	30
31	60 3	B ACC-8	5980	5980								32
33					5980	1040			- ERU-3	2	20	34
35	20 2	P ERU-4					1040	1040	EKU-S	2	20	36
37	20 2	2 CRU-4	1040	180					RECEPTS: 16	1	20	38
39	20 1	FIRE/SMOKE DAMPER ACTUATORS			1000	900			RECEPTS: 37A	1	20	40
41	20 1	SPARE					0	900	RECEPTS: 37B	1	20	42
		TOTAL LOAD		21 VA	2192	1 VA	2232	1 VA				

A.I.C. RATING:

MAIN BUS RATING: 225 A

TOTAL LOAD 22090 VA 22055 VA 24573 VA

13820 VA

35408 VA

MCB RATING: Type 1

A (VA) B (VA) C (VA)

 A (VA)
 B (VA)
 C (VA)
 LOAD DESCRIPTION

 1080
 1080
 RECEPTS: 62

 1080
 1080
 RECEPTS: 64

 1080
 1080
 RECEPTS: 66

 1080
 1080
 RECEPTS: 68

 1080
 1080
 RECEPTS: 70

 1080
 1080
 RECEPTS: 72

 1080
 1080
 RECEPTS: 74

 RECEPTS: A
 RECEPTS: EXTERIOR CLASSROOM

 360
 175
 SSI-66,67,68,69,70

 280
 105
 SSI-71,72,73

 280
 800
 RBU-9,10,11,12

 14410
 280
 SSI-58,59,60,61,62,63,64,65

 1000
 0
 SPARE

 0
 0
 SPARE

Load Cla	ssification	
Connected VA	Demand Factor	Demand VA
25920 VA	69.29%	17960 VA
40042 VA	75.00%	30032 VA
	Connected VA 25920 VA	25920 VA 69.29%

Panel Totals Connected Load 66962 VA Estimated Load 48742 VA Connected Amps 186 A Demand Amps 135 A

LOAD DESCRIPTION

BRKR

Panel Totals

Connected Load 68707 VA Estimated Load 53554 VA

Connected Amps 191 A

Demand Amps 149 A

District Office Address

PHASE 1: 2022 BOND

PROJECT INFORMATION

SCHOOL DISTRICT

14457.20

Client Name

Project Name

CPL | Architecture Engineering Planning 50 Front Street Suite 202, Newburgh, NY 12550 CPLteam.com

Capital Improvements Bon

SOUTH ORANGETOWN CENTRAL

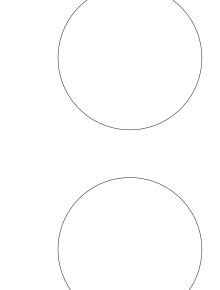
160 VAN WYCK RD. BLAUVELT, NY 10913

SOUTH ORANGETOWN CSD WILLIAM O. SCHAEFER SED#:50-03-01-06-0-012-019 COTTAGE LANE ELEMENTARY SED#:50-03-01-06-0-010-022 TAPPAN ZEE HIGH SCHOOL SED#:50-03-01-06-0-006-032 WILLIAM O. SCHAEFER S&L SED#: 50-03-01-06-0-012-020 COTTAGE LANE \$&L \$ED#: 50-03-01-06-0-010-023 COTTAGE LANE LIBRARY S&L SED#: 50-03-01-06-8-023-002 WOS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-053-001 SOMS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-056-001 CLE OUTDOOR CLASSROOM SED#: 50-03-01-06-7-054-001 ☐ TZHS OUTDOOR CLASSROOM SED#: 50-03-01-06-7-055-001

PROJECT ISSUE & REVISION SCHEDULE

1 11/17/2023 BID ADDENDUM #4

PROFESSIONAL STAMPS



SHEET INFORMATION Issued 10/18/2023

Project Status BID DOCUMENTS Drawn By MAY Drawing Title ELECTRICAL SCHEDULES