CHAPPAQUA CENTRAL SCHOOL DISTRICT

DISTRICT-WIDE CAPITAL IMPROVEMENTS - HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

66 Roaring Brook Road Chappaqua, NY 10514

ISSUE FOR BID
OCTOBER 07, 2024

DISTRICT-WIDE CAPITAL IMPROVEMENTS - HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

NYSED Project Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

KG+D Project No.
2023-1028

CONSTRUCTION DOCUMENTS



SEVEN BRIDGES MIDDLE SCHOOL
222 Seven Bridges Road, Chappaqua, NY 10514
NYSED Control No. 66-10-04-06-0-036-007



HORACE GREELEY HIGH SCHOOL
70 Roaring Brook Road, Chappaqua, NY 10514
NYSED Control No. 66-10-04-06-0-015-023



ROBERT E. BELL MIDDLE SCHOOL
50 Senter Street, Chappaqua, NY 10514
NYSED Control No. 66-10-04-06-0-009-025

LIST OF DRAWINGS

G000	COVER	
CODE COMPLIANCE		
CC001	CODE COMPLIANCE	
CIVIL		
C100A-HG	HORACE GREELEY HIGH SCHOOL SITE IMPROVEMENT KEY PLAN	
C200A-HG	HORACE GREELEY HIGH SCHOOL SITE IMPROVEMENT PLAN	
C300A-HG	HORACE GREELEY HIGH SCHOOL SITE DETAILS	
STRUCTURAL		
S001	GENERAL NOTES	
S101-BE	BELL MS PART ROOF & FIRST FLOOR FRAMING PLANS	
S102-SB	SEVEN BRIDGES MS GYM ROOF FRAMING PLAN	
S200	TYPICAL DETAILS	
S001-HG	HORACE GREELEY HIGH SCHOOL GENERAL NOTES & MATERIAL SPECIFICATIONS	
S101-HG	BLDG "A" ROOF FRAMING PLAN	
S102-HG	GYM & FITNESS ROOF FRAMING PLAN	
S103-HG	CAFETERIA ROOF PLAN	
S104-HG	"L" BUILDING ROOF FRAMING PLAN	
S200-HG	HORACE GREELEY HIGH SCHOOL TYPICAL DETAILS	
ARCHITECTURAL		
A101-BE	ROBERT E. BELL MIDDLE SCHOOL PLANS & DETAILS	
A102-BE	ROBERT E. BELL MIDDLE SCHOOL DETAILS	
A101-SB	SEVEN BRIDGES MIDDLE SCHOOL PLANS & DETAILS	
A101-HG	HORACE GREELEY HIGH SCHOOL PLANS & DETAILS	
MECHANICAL		
H001	LEGEND, NOTES & ABBREVIATIONS	
H101-BE	ROBERT E. BELL PART FIRST FLOOR & ATTIC PLANS	
H102-BE	ROBERT E. BELL PART SECOND & THIRD FLOOR PLANS	
H201-BE	ROBERT E. BELL PART FIRST FLOOR & ATTIC PLANS	
H202-BE	ROBERT E. BELL PART SECOND & THIRD FLOOR PLANS	
H203-BE	ROBERT E. BELL ROOF PLAN	
H301-BE	ROBERT E. BELL SCHEDULES	
H401-BE	ROBERT E. BELL DETAILS	
H101-SB	SEVEN BRIDGES GYM FLOOR PLANS	
H201-SB	SEVEN BRIDGES PART GYM FLOOR PLAN	
H301-SB	SEVEN BRIDGES SCHEDULES	
H401-SB	SEVEN BRIDGES DETAILS	
H101-HG	HORACE GREELEY PART BUILDING "A" FLOOR PLAN	
H102-HG	HORACE GREELEY PART BUILDING "A" FLOOR PLAN	
H103-HG	HORACE GREELEY PART BUILDING "H" FLOOR PLAN	
H104-HG	HORACE GREELEY BUILDING "L" MAIN LEVEL PLAN	
H201-HG	HORACE GREELEY PART BUILDING "A" FLOOR PLAN	
H202-HG	HORACE GREELEY PART BUILDING "A" FLOOR PLAN	
H203-HG	HORACE GREELEY PART BUILDING "H" FLOOR PLAN	
H204-HG	HORACE GREELEY BUILDING "L" MAIN LEVEL PLAN	
H205-HG	HORACE GREELEY BUILDING "L" MAIN LEVEL PART PLAN	
H206-HG	HORACE GREELEY BUILDING "L" LOWER LEVEL PLAN	
H207-HG	HORACE GREELEY ROOF PLAN	
H301-HG	HORACE GREELEY SCHEDULES	
H302-HG	HORACE GREELEY SCHEDULES	
H401-HG	HORACE GREELEY DETAILS	
ELECTRICAL		
E001	LEGEND, ABBREVIATIONS & NOTES	
E101-BE	ROBERT E. BELL FIRST FLOOR PART REMOVAL PLAN	
E102-BE	ROBERT E. BELL THIRD FLOOR PART REMOVAL PLAN	
E201-BE	ROBERT E. BELL FIRST & ATTIC FLOOR PART LIGHTING PLAN	
E301-BE	ROBERT E. BELL FIRST FLOOR PART POWER PLAN	
E302-BE	ROBERT E. BELL THIRD & FOURTH FLOOR PART POWER PLAN	
E303-BE	ROBERT E. BELL CONDUIT PATH	
E501-BE	ROBERT E. BELL PART POWER RISER & SCHEDULES	
E101-SB	SEVEN BRIDGES LOWER LEVEL PART REMOVAL PLAN	
E301-SB	SEVEN BRIDGES LOWER LEVEL PART POWER PLAN	
E501-SB	SEVEN BRIDGES RISER & SCHEDULE	
E101-HG	HORACE GREELEY BUILDING "A" REMOVAL PLAN	
E102-HG	HORACE GREELEY BUILDING "H" REMOVAL PLAN	
E103-HG	HORACE GREELEY BUILDING "L" MAIN LEVEL REMOVAL PLAN	
E104-HG	HORACE GREELEY BUILDING "L" LOWER LEVEL REMOVAL PLAN	
E301-HG	HORACE GREELEY BUILDING "A" POWER PLAN	
E302-HG	HORACE GREELEY BUILDING "A" ROOF PLAN	
E303-HG	HORACE GREELEY BUILDING "H" POWER PLAN	
E304-HG	HORACE GREELEY BUILDING "L" MAIN LEVEL POWER PLAN	
E305-HG	HORACE GREELEY BUILDING "L" LOWER LEVEL POWER PLAN	
E306-HG	HORACE GREELEY BUILDING "L" ROOF & BASEMENT POWER PLAN	
E307-HG	HORACE GREELEY PARTIAL SITE PLAN	
E501-HG	HORACE GREELEY POWER RISER	
E502-HG	HORACE GREELEY POWER RISER ALTERNATE	
E601-HG	HORACE GREELEY SCHEDULES	
E701	ELECTRICAL DETAILS	

Sheet total: 71

PROJECT SCOPE DESCRIPTION

HORACE GREELEY HIGH SCHOOL:
- HVAC UPGRADES
  - -ADD L BUILDING A/C
  - -ADD CAFETERIA A/C
  - -ADD GYM A/C
- ELEC UPGRADES
  - -WORK ASSOCIATED w/ HVAC UPGRADES
  - -REPLACE BOILER RM DISTRIBUTION BOARD & DAMAGED FEEDER CABLE TO GYM BLDG

SEVEN BRIDGES MIDDLE SCHOOL:
- HVAC UPGRADES
  - -ADD GYM A/C

ROBERT E. BELL MIDDLE SCHOOL:
- HVAC UPGRADES
  - -ADD GYM A/C
  - -ADD CAFETERIA A/C

DESIGN TEAM

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COVER

G000

ABBREVIATIONS

ACM	ASBESTOS CONTAINING MATERIAL	GALV	GALVANIZED		
ACP	ALUMINUM COMPOSITE PANEL	GFB	GROUND FACE BLOCK	QT	QUARRY TILE
ACPL	ACOUSTIC PANEL	GFRG	GLASS FIBER REINFORCED GYPSUM	QTB	QUARRY TILE BASE
ACT	ACOUSTIC CEILING TILE	GL	GLASS	QTY	QUANTITY
ADJ	ADJUSTABLE	GWB	GYPSUM WALLBOARD		
AC	AIR CONDITIONING			RCP	REFLECTED CEILING PLAN
AESS	ARCHITECTURAL EXPOSED STRUCT STEEL	H	HEIGHT AFF	REFL	REFLECTED
AFF	ABOVE FINISH FLOOR	HDW, HDWE	HARDWARE	REQD	REQUIRED
AHAP	AS HIGH AS POSSIBLE	HDWD	HARDWOOD	RB	RUBBER BASE
AL, ALUM	ALUMINUM	HD	HEAD	RTN	RETURN
AMP	ACRYLIC MODIFIED POLYESTER	HDR	HEADER	RA	RETURN AIR
APPROX	APPROXIMATE	HVAC	HEATING, VENTILATING, AIR CONDITIONING	REV	REVISED/REVISION
		HR	HOUR	RFI	REQUEST FOR INFORMATION
BEPO	BROADCAST EPOXY	HT	HEIGHT	RO	ROUGH OPENING
BTW	BETWEEN	HM	HOLLOW METAL	RT	RUBBER TREAD/TILE
BLKG	BLOCKING	HMFR	HOLLOW METAL FRAME	RTB	RUBBER TREAD BASE
BOT, BOTT	BOTTOM	HORIZ	HORIZONTAL	RTT	RESILIENT TERRAZZO TILE
BLDG	BUILDING	HC	HANDICAP	RW	RESCUE WINDOW
BL	BUILDING LINE				
BM	BEAM	IF	INSIDE FACE	S	SAFETY GLAZING/SEE SPEC
		IN	INCH/INCHES	SCHED	SCHEDULE/SCHEDULED
CAB	CABINET	INCL	INCLUDE/INCLUSIVE	SECT	SECTION
CB	CEMENT BOARD	INFO	INFORMATION	SFB	SPLIT FACE BLOCK
CI	CAST IRON	INSUL	INSULATION	SH	SHELVING/SHELF/SHELVES
CLG, CLNG	CEILING	INT	INTERIOR	SIM	SIMILAR
CL	CENTER LINE, CLASSROOM			SL	SLATE
CMU	CONCRETE MASONRY UNIT	JC	JANITOR'S CLOSET	STC	SOUND TRANSMISSION CLASS
COL	COLUMN	JT	JOINT	SPEC	SPECIFICATION
CONC	CONCRETE			SQFT	SQUARE FOOT
CONF	CONFERENCE	KPL	KICK PLATE	ST	SAND, STAIN & SEAL
CONST	CONSTRUCTION	KD	KNOCKDOWN	STSTL	STAINLESS STEEL
CONTR	CONTRACTOR	KO	KNOCKOUT	STL	STEEL
CONT	CONTINUOUS			STR	STRUCTURAL/STRUCTURE
COORD	COORDINATE	LAM	LAMINATED	SUSP	SUSPENDED/SUSPENSION
CPT	CARPET	LAMGL	LAMINATED GLASS		
CT	CERAMIC TILE	LT	LIGHT	T	TOP
CTB	CERAMIC TILE BASE	LTG	LIGHTING	TB	TACKBOARD
		LWC	LIGHT WEIGHT CONCRETE	TBD	TO BE DETERMINED
DA	DEVICE ARRANGEMENT	LIN	LINOLEUM	TERR	TERRAZZO
DET	DETAIL	LMF	LIGHT METAL FRAMING	TFF	TOP FINISHED FLOOR
DF	DRINKING FOUNTAIN			TMP GL	TEMPERED GLASS
DIM	DIMENSION	MAINT	MAINTAIN/MAINTENANCE	THERMO	THERMOSTAT
DR	DOOR	MAX	MAXIMUM	T&B	TOP AND BOTTOM
DN	DOWN	MBL	MARBLE	TO	TOP OF
DWG	DRAWING	MFG	MANUFACTURER	TOS	TOP OF STEEL
		MSNRY	MASONRY	TOSS	TOP OF STRUCTURAL SLAB
EE	EACH END	MO	MASONRY OPENING	TOES	TOP OF EXISTING SLAB
EIFS	EXTERIOR INSULATION FINISH SYSTEM	MATL	MATERIAL	TRT	TERRAZZO RESILIENT TILE
EJ	EXPANSION JOINT	MECH	MECHANICAL	TYP	TYPICAL
ELEC	ELECTRIC/ELECTRICAL	MTL	METAL		
EL/ELEV	ELEVATION	MCP	METAL COMPOSITE PANEL	UNFIN	UNFINISHED
ENCL	ENCLOSURE	MCB	METAL CORNER BEAD	UNO, UON	UNLESS NOTED OTHERWISE
EOD	EDGE OF DECK	MS	METAL STUD	UR	URINAL
EOS	EDGE OF SLAB	MLWK	MILL WORK	UTIL	UTILITY
EPO	EPOXY	MIN	MINIMUM		
EPS	EDGE OF POUR STOP	MISC	MISCELLANEOUS	VAT	VINYL ASBESTOS TILE
EQ	EQUAL	MLDG	MOLDING	VCT	VINYL COMPOSITE TILE
ES	EACH SIDE	MTG	MOUNTING	VEN	VENEER
EXIST	EXISTING			VERT	VERTICAL
ETR	EXISTING TO REMAIN	NIC	NOT IN CONTRACT	VET	VINYL ENHANCED TILE
ETRE	EXISTING TO BE RELOCATED	NTS	NOT TO SCALE	VIF	VERIFY IN FIELD
EXP JT	EXPANSION JOINT	NO	NUMBER	VRS	VINYL REDUCER STRIP
EXT, EXTR	EXTERIOR			VT	VINYL TILE
EW	EACH WAY	OC	ON CENTER	VWC	VINYL WALL COVERING
		OPNG	OPENING		
FAB	FABRIC	OPP	OPPOSITE	WB	WHITEBOARD
FTF	FACE TO FACE	OH	OPPOSITE HAND	WC	WATER CLOSET
FIN	FINISHED	OTS	OPEN TO STRUCTURE	WF	WATER FOUNTAIN
FA	FIRE ALARM	OUT	OUTLET	WGL	WIRE GLASS
FD	FLOOR DRAIN	OD	OUTSIDE DIAMETER	W/	WITH
FDMPR	FIRE DAMPER	OF	OUTSIDE FACE	W/C	WHEEL CHAIR
FE	FIRE EXTINGUISHER			W/O	WITHOUT
FEC	FIRE EXTINGUISHER CABINET	P, PTD	PAINTED	WOM	WALK OFF MAT
FF	FACTORY FINISHED	PT	PORCELAIN TILE	WD	WOOD
FHC	FIRE HOSE CABINET	PTB	PORCELAIN TILE BASE	WD BLKG	WOOD BLOCKING
FHVC	FIRE HOSE VALVE CABINET	PR	PAIR	WD DR	WOOD DOOR
FR	FIRE RATED	PNL	PANEL	WP	WATERPROOFING
FRD	FRENCH DRAIN	PTN	PARTITION	WR	WARDROBE
FRP	FIBERGLASS REINFORCED POLYESTER	PL	PLATE / PROPERTY LINE	WW	WINDOW WALL
FRTD	FIRE RETARDANT	PLAM	PLASTIC LAMINATE		
FIX	FIXTURE	PLMB	PLUMBING	YD	YARD
FL/FLR	FLOOR	PLYWD	PLYWOOD	YCO	YARD CLEANOUT
FLUOR	FLUORESCENT	PTWD	PRESERVATIVE TREATED WOOD		
FL MTD	FLUSH MOUNTED			ZCC	ZINC COATED COPPER
FT	FOOT/FEET			ZCP	ZINC COMPOSITE PANEL
FDN	FOUNDATION				
FRITZ	FRITZ FLOOR (RTT) TILE				

PROJECT INFORMATION

NYSED CONTROL NUMBERS:
BE 66-10-04-06-0-009-025
SB 66-10-04-06-0-036-007
HG 66-10-04-06-0-015-023

DISTRICT NAME:
CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 ROARING BROOK ROAD
CHAPPAQUA, NY 10514
PHONE: 914.238.7200

BUILDING NAMES:
ROBERT E. BELL MIDDLE SCHOOL (BE)
50 SENTER STREET
CHAPPAQUA, NY 10514

SEVEN BRIDGES MIDDLE SCHOOL (SB)
222 SEVEN BRIDGES ROAD
CHAPPAQUA, NY 10514

HORACE GREELEY HIGH SCHOOL (HG)
70 ROARING BROOK ROAD
CHAPPAQUA, NY 10514

TYPE OF PROJECT: LEVEL 2 ALTERATIONS

PROJECT DESCRIPTION: NEW HVAC SYSTEMS

PROJECT COMMENCEMENT: FALL 2024

PROJECTED COMPLETION: FALL 2025

APPLICABLE CODES:
2020 NEW YORK STATE UNIFORM FIRE PREVENTION & BUILDING CODE (NYS BC)

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (NYS ECCC)

2022 MANUAL OF PLANNING STANDARDS
THE UNIVERSITY OF THE STATE OF NEW YORK
THE STATE EDUCATION DEPARTMENT (NYSED)

USE & OCCUPANCY CLASSIFICATION & CONSTRUCTION TYPE

USE & OCCUPANCY CLASSIFICATION: EDUCATIONAL GROUP E

	BE	SB	HG
EXISTING CONSTRUCTION TYPE:	TYPE IIB	TYPE IIA	TYPE IIB

ALTERATIONS SHALL MATCH EXISTING CONSTRUCTION TYPE

FIRE-RESISTANCE RATING FOR BUILDING ELEMENTS	TYPE IIA	TYPE IIB
PRIMARY STRUCTURAL FRAME:	1 HRS	0 HRS
FLOORS:	1 HRS	0 HRS
ROOFS:	1 HRS	0 HRS
BEARING WALLS (EXT,INT):	1,1 HRS	0,0 HRS
NON-BEARING WALLS (EXT,INT):	0,0 HRS	0,0 HRS

BUILDING INFORMATION

	EXISTING					YEAR BUILT	BLDG TYPE	NO. STORIES
	BASEMENT / 1st LEVEL	1st FLR / 2nd LEVEL	2nd FLR / 3rd LEVEL	3rd FLR / 4th LEVEL	TOTAL			
ROBERT E. BELL	21,700 SF	51,800 SF	46,600 SF	14,100 SF	134,200 SF	1925	IIB	3*
SEVEN BRIDGES	49,200 SF	72,500 SF	43,800 SF	-	165,500 SF	2003	IIA	2*

*BASEMENT / 1st LEVEL IS BELOW GRADE PLANE & FLOOR SURFACE ABOVE IS LESS THAN 6' ABOVE GRADE PLANE

FIRE & SMOKE PROTECTION FEATURES

ROBERT E. BELL IS UNSPRINKLERED
SEVEN BRIDGES IS SPRINKLERED

ASSEMBLY	FIRE-RESISTANCE	LOCATION
FIRE BARRIER: *(BCNYS TABLE 508.4, 509, 707.3.10) (BCNYS 713.2, 1023.2, 3002.1, 3005.4)* ***(SED S104-2)*	2 HRS	TRANSFORMER ROOM INT EXIT STAIRWAY ≥4 STORIES ELEVATOR SHAFT ≥4 STORIES ELEV MACHINE ROOM ≥4 STORIES SHAFTS ≥4 STORIES BOILER & GENERATOR ROOMS** INDIVIDUAL VOCATIONAL SHOPS** ROOMS w/ FLAMMABLE LIQUIDS**
	1 HR	INT EXIT STAIRWAYS <4 STORIES ELEVATOR SHAFTS <4 STORIES ELEV MACHINE ROOM <4 STORIES SHAFTS <4 STORIES FIRE PUMP ROOM HS & MS ART, MAKER SPACE, STEM & SCIENCE LAB w/ BURNERS / FUME HOODS** HOME & CAREER w/ COOKING** STORAGE ROOMS >100SF** KILN** COMMERCIAL KITCHEN**
FIRE PARTITION:	1 HR	CORRIDOR & SMOKE STOPS
HORIZONTAL SEPARATION:	2 HRS	RATED FLOOR/CEILING ASSEMBLY

*** SEE DRAWING CC001 FOR LOCATIONS OF FIRE-RESISTANCE-RATED CONSTRUCTION ***
FIRE RATED CONSTRUCTION REQUIRED BY SED MAY BE REDUCED ONE HOUR IF AN AUTOMATIC FIRE SUPPRESSION SYSTEM IS PROVIDED
(DOOR CLOSERS & SMOKE DAMPERS ARE STILL REQUIRED AT CORRIDORS)

ACCESSIBILITY

ACCESSIBILITY INFORMATION	DWG SHOWN
ACCESSIBLE ROUTE	CC001, FLOOR PLAN
ACCESSIBLE EXITS / ENTRANCES	CC001, FLOOR PLAN
PARKING FACILITIES	N/A THIS PROJECT
TOILET FACILITIES EVERY FLOOR	N/A THIS PROJECT
ACCESSIBLE FEATURES	FLOOR PLANS
VERTICAL ACCESS / ELEVATOR	N/A THIS PROJECT
SIGNAGE	SPECIFICATIONS

ENERGY CONSERVATION CODE COMPLIANCE

COUNTY:	WESTCHESTER COUNTY
CLIMATE ZONE:	4
OPAQUE THERMAL ENVELOPE REQUIREMENTS:	TABLE C402.1.3-4
ROOF - INSULATION ENTIRELY ABOVE DECK	R-30ci
WALLS, ABOVE GRADE - MASS	R-9.5ci
WALLS, ABOVE GRADE - METAL FRAMED	R-13 + R-7.5ci
WALLS, BELOW GRADE - MASS	R-7.5ci
FLOORS - MASS	R-10ci
SLAB-ON-GRADE FLOORS - UNHEATED	R-10 FOR 24" BELOW
OPAQUE DOORS - SWINGING	U-0.37
ENVELOPE FENESTRATION:	TABLE 402.4
FIXED FENESTRATION	U-0.38
OPERABLE FENESTRATION	U-0.45
ENTRANCE DOOR	U-0.77
SHGC - PF < 0.2	U-0.36

UNIFORM SAFETY STANDARDS FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS

THE OCCUPIED PORTION OF THE EXISTING SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY.

ALL SCHOOL AREAS TO BE DISTURBED DURING RENOVATION OR DEMOLITION HAVE BEEN OR WILL BE TESTED FOR LEAD AND ASBESTOS.

GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:

(A) ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
(B) FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
(C) GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
(D) DURING EXTERIOR RENOVATION WORK, OVERHEAD PROTECTION SHALL BE PROVIDED FOR ANY SIDEWALKS OR AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH AREAS SHALL BE FENCED OFF AND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.
(E) WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES.

SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES:

CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF A CONTRACTOR AND THEREFORE NOT OCCUPIED BY DISTRICT STAFF OR STUDENTS SHALL BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT THE PASSAGE OF DUST AND CONTAMINANTS INTO OCCUPIED PARTS OF THE BUILDING. PERIODIC INSPECTION AND REPAIRS OF THE CONTAINMENT BARRIERS MUST BE MADE TO PREVENT EXPOSURE TO DUST OR CONTAMINANTS. GYPSUM BOARD MUST BE USED IN EXIT WAYS OR OTHER AREAS THAT REQUIRE FIRE RATED SEPARATION. HEAVY DUTY PLASTIC SHEETING MAY BE USED ONLY FOR A VAPOR, FINE DUST OR AIR INFILTRATION BARRIER, AND SHALL NOT BE USED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTION AREAS.

(A) A SPECIFIC STAIRWELL AND/OR ELEVATOR SHOULD BE ASSIGNED FOR CONSTRUCTION WORKER USE DURING WORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDORS, STAIRS OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF.

(B) LARGE AMOUNTS OF DEBRIS MUST BE REMOVED BY USING ENCLOSED CHUTES OR A SIMILAR SEALED SYSTEM. THERE SHALL BE NO MOVEMENT OF DEBRIS THROUGH HALLS OF OCCUPIED SPACES OF THE BUILDING. NO MATERIAL SHALL BE DROPPED OR THROWN OUTSIDE THE WALLS OF THE BUILDING.

(C) ALL OCCUPIED PARTS OF THE BUILDING AFFECTED BY RENOVATION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORKDAY. SCHOOL BUILDINGS OCCUPIED DURING A CONSTRUCTION PROJECT SHALL MAINTAIN REQUIRED HEALTH, SAFETY AND EDUCATIONAL CAPABILITIES AT ALL TIMES THAT CLASSES ARE IN SESSION.

A PLAN DETAILING HOW EXITING REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE MAINTAINED.

A PLAN DETAILING HOW ADEQUATE VENTILATION WILL BE MAINTAINED DURING CONSTRUCTION.

CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS OF 60 DBA IN OCCUPIED SPACES OR SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR ACOUSTICAL ABATEMENT MEASURES SHALL BE TAKEN.

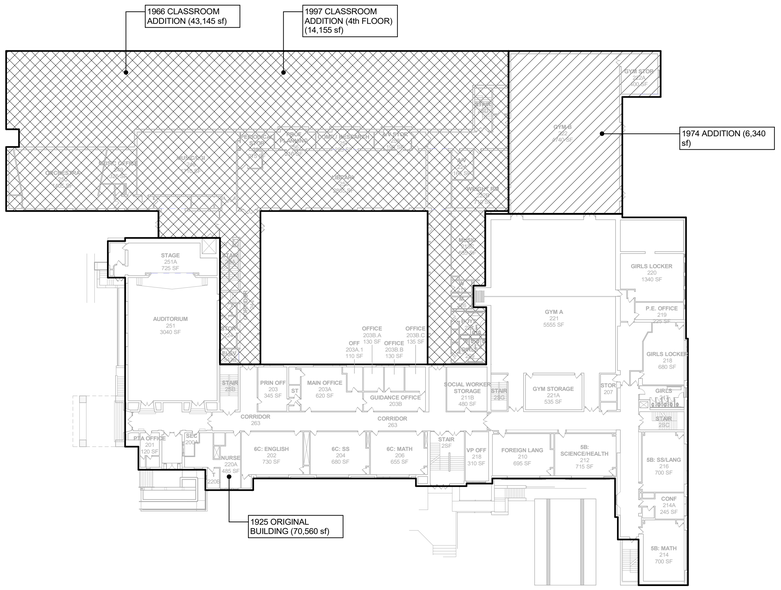
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINATES PRODUCED BY WELDING, GASOLINE OR DIESEL ENGINES, ROOFING, PAVING, PAINTING, ETC. TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT "OFF-GASSING" OF VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS, FURNITURE, CARPETING, WALL COVERING, DRAPERY, ETC. ARE SCHEDULED, CURED OR VENTILATED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BEFORE A SPACE CAN BE OCCUPIED.

LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED". NOTE, IT IS OUR INTERPRETATION THAT THE TERM "BUILDING", AS REFERENCED IN THIS SECTION, MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH SEALED NON COMBUSTIBLE CONSTRUCTION. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.
EXTERIOR WORK SUCH AS ROOFING, FLASHING, SIDING, OR SOFFIT WORK MAY BE PERFORMED ON OCCUPIED BUILDINGS PROVIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED, AND COMPLETE ISOLATION OF VENTILATION SYSTEMS AND AT WINDOWS IS PROVIDED. CARE MUST BE TAKEN TO SCHEDULE WORK SO THAT CLASSES ARE NOT DISRUPTED BY NOISE OR VISUAL DISTRACTION.

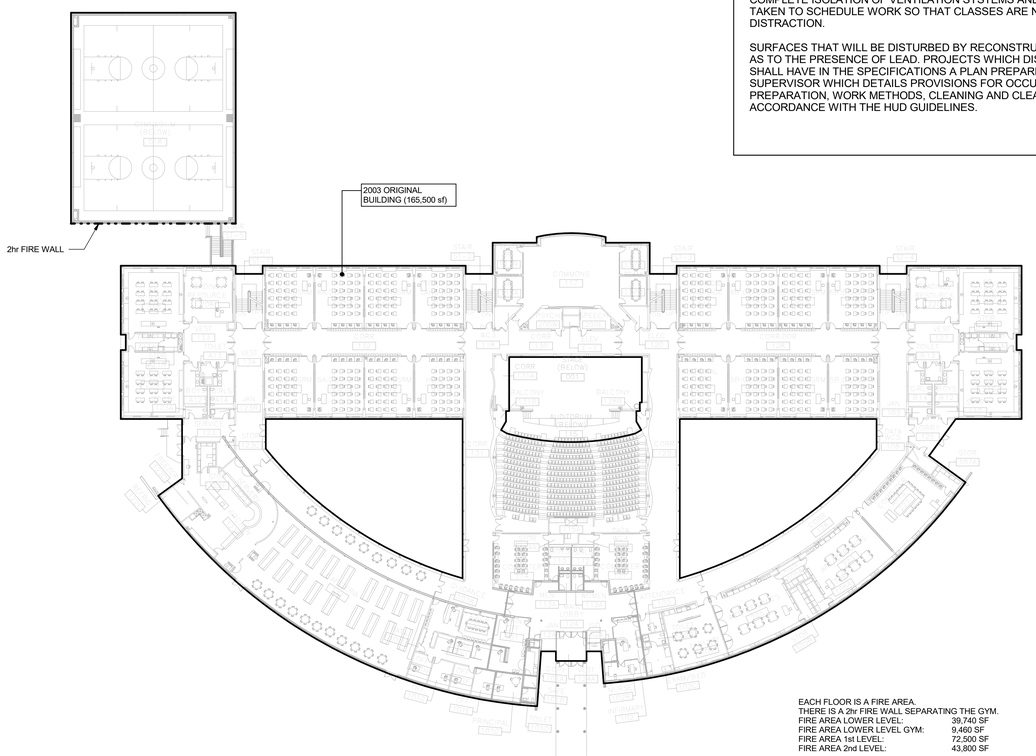
SURFACES THAT WILL BE DISTURBED BY RECONSTRUCTION MUST HAVE A DETERMINATION MADE AS TO THE PRESENCE OF LEAD. PROJECTS WHICH DISTURB SURFACES THAT CONTAIN LEAD SHALL HAVE IN THE SPECIFICATIONS A PLAN PREPARED BY A CERTIFIED LEAD RISK ASSESSOR OR SUPERVISOR WHICH DETAILS PROVISIONS FOR OCCUPANT PROTECTION, WORKSITE PREPARATION, WORK METHODS, CLEANING AND CLEARANCE TESTING WHICH ARE IN GENERAL ACCORDANCE WITH THE HUD GUIDELINES.

FIRE & BUILDING AREAS



RB ROBERT E. BELL BUILDING & FIRE AREAS
1/32" = 1'-0"

EACH FLOOR IS AN EXISTING NON-CONFORMING FIRE AREA
FIRE AREA 1st LEVEL: 21,700 SF
FIRE AREA 2nd LEVEL: 51,800 SF
FIRE AREA 3rd LEVEL: 46,600 SF
FIRE AREA 4th LEVEL: 14,100 SF



SB SEVEN BRIDGES BUILDING & FIRE AREAS
1/32" = 1'-0"

EACH FLOOR IS A FIRE AREA.
THERE IS A 2hr FIRE WALL SEPARATING THE GYM.

FIRE AREA LOWER LEVEL:	39,740 SF
FIRE AREA LOWER LEVEL GYM:	9,460 SF
FIRE AREA 1st LEVEL:	72,500 SF
FIRE AREA 2nd LEVEL:	43,800 SF

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

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285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
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No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE

Sheet Title

CODE COMPLIANCE

Job No. 2023-1028	Sheet Number CC001
Date 10/02/2023	
Scale AS NOTED	
Drawn / Checked - / -	

PLOTTED BY: DYNCY TUNG SCHWALBE, LLP BEN ZACCARA 10/7/2024 11:45 AM C:\USERS\BZACCARA\DC\ACCDOCS\DTSP\1006 CHAPPAQUA CSD\PROJECT FILES\1006 24-09-10 GIS BASEMAP PLT.DWG



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EXPIRES 1/31/27

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

HORACE GREELEY HIGH SCHOOL SITE IMPROVEMENT KEY PLAN

Job No. 2023-1028	Sheet Number
Date 10/04/2023	C100A-HG
Scale 1" = 100'	
Drawn / Checked BDZ/GMS	

PART PLAN - UTILITIES



NOTES:
1. SAWCUT AS NEEDED, SEE SHEET C300A-HG FOR DETAIL.
2. RECORD SURVEY PROVIDED BY KG+D ARCHITECTS. CONTRACTOR TO VERIFY SITE CONDITIONS PRIOR TO WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES.

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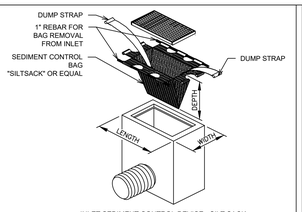
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Sheet Title

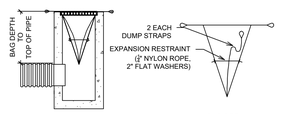
HORACE GREELEY HIGH SCHOOL SITE IMPROVEMENT PLAN

Job No. 2023-1028	Sheet Number C200A-HG
Date 10/04/2023	
Scale 1" = 30'	
Drawn / Checked BDZ/GMS	



INLET SEDIMENT CONTROL DEVICE - SILT SACK

NOTE:
1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE CORRECT SIZE DEVICE FOR EACH INLET.
2. FOR NON-STANDARD CATCH BASINS AND INLETS, THE CONTRACTOR SHALL MEASURE DIMENSIONS IN THE FIELD AND ORDER THE APPROPRIATE SIZE(S).
3. THE INLET SEDIMENT CONTROL DEVICE SHALL BE OF HIGH FLOW DESIGN AS PER THE MANUFACTURER'S SPECS.
4. THE SEDIMENT CONTROL DEVICE SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED A MINIMUM ONCE PER MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT. FILTER SHALL BE CLEANED IN A MANNER WHICH ENSURES THAT ALL SEDIMENT REMAINS ON SITE.
5. SUBSTITUTION OF A SHEET OF FILTER FABRIC PLACED OVER THE OPENING OF THE INLET IS NOT APPROVED.
6. RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS, SIZE OF FILTER INLET SACK TO BE DETERMINED BY MANUFACTURER.
7. THE FILTER SHALL BE REPLACED OR CLEANED WHEN THE BAG BECOMES HALF FULL.

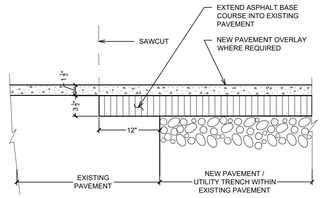


INSTALLATION DETAIL

BAG DETAIL

INLET PROTECTION
SCALE: N.T.S.

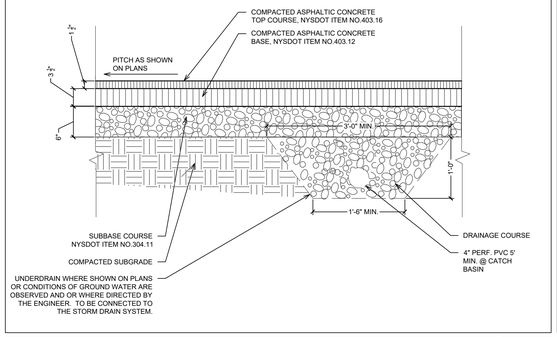
1



NOTES:
1. SAW CUT INTO EXISTING PAVEMENT APPLIES TO PAVEMENT REPLACEMENT AT TRENCHES

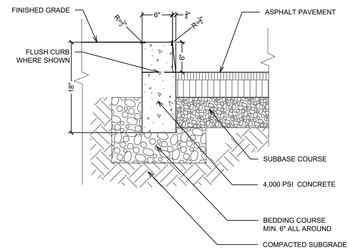
SAWCUT PAVEMENT KEY-IN
SCALE: N.T.S.

2



ASPHALT PAVEMENT
SCALE: N.T.S.

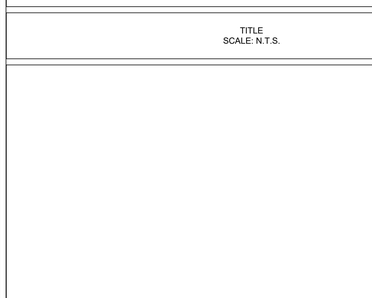
3



NOTE:
1. EXPOSED SURFACES TO HAVE BROOM FINISH
2. PROVIDE ½" PREMOLDED EXPANSION JOINT AND SEALANT EVERY 20' O.C.
3. PROVIDE ½" PREMOLDED EXPANSION JOINT AND SEALANT WHEN CONCRETE PAVEMENT ABUTS CONCRETE CURB

CONCRETE CURB
SCALE: N.T.S.

4



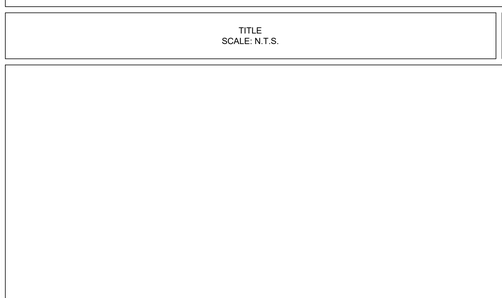
NOTE:
EXPANSION JOINTS WITH JOINT SEALANT TO BE SPACED AT 20' O.C.
PROVIDE 1/2" EXPANSION JOINT WITH SEALANT BETWEEN CONCRETE WALKWAYS AND CONCRETE CURBS AND STRUCTURES

JOINT DETAIL

UNDERDRAIN WHERE CONDITIONS OF GROUND WATER ARE OBSERVED AND/OR WHERE DIRECTED BY THE ENGINEER TO BE CONNECTED TO THE STORM DRAIN SYSTEM

CONCRETE PAVEMENT
SCALE: N.T.S.

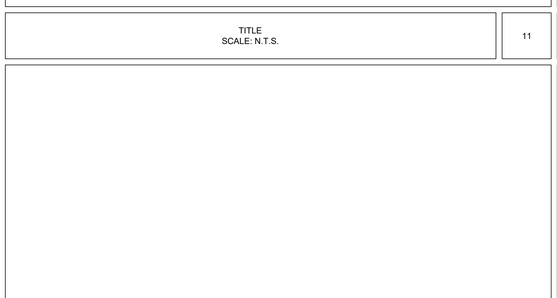
5



NOTES:
1. WHEN PIPES ARE TO BE INSTALLED IN FILL SECTIONS, THE CONTRACTOR SHALL INSTALL CRUSHED STONE, GRAVEL OR APPROVED STRUCTURAL FILL.
2. BACKFILL TO 95% RELATIVE MATERIAL COMPACTED DRY DENSITY AT OPTIMUM MOISTURE UNDER PAVED AREAS AND 90% UNDER LANDSCAPED AREAS (TYP.)
3. BACKFILL WITH 90PSI FLOWABLE CONCRETE IN TOWN R.O.W. (K-CRETE)
4. K-CRETE BACKFILL SHALL BE USED IN ALL TRENCHING (SANITARY SEWER AND WATER MAIN) LOCATED WITHIN THE EXISTING PAVEMENT. PRIOR TO THE PLACEMENT OF THE K-CRETE BACKFILL, THE PIPE SHALL BE SURROUNDED WITH A MINIMUM OF 12-INCHES OF NYSDOT ITEM 304.05 OR CLEAN SAND AS DIRECTED BY THE UTILITY OWNER. THE REMAINDER OF THE TRENCH (UP TO THE BOTTOM OFPAVEMENT SECTION) SHALL THEN CONSIST OF K-CRETE.

TRENCH DETAIL
SCALE: N.T.S.

6



NOTE:
1. SEE SHEET C200A-HG FOR ELECTRICAL LAYOUT.
2. SEE DETAIL 5 THIS SHEET FOR CONCRETE PAVEMENT DETAIL.

ELECTRICAL TRENCH SECTION AT CONCRETE STAIR
SCALE: N.T.S.

7

2.1 SOIL MATERIALS (SEE SPECIFICATION 312010 FOR COMPETE SOIL MATERIAL AND EARTHWORK INFORMATION)

A. GENERAL: PROVIDE BORROW SOIL MATERIALS WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE FROM EXCAVATIONS.

B. SATISFACTORY SOILS: SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, AND SP ACCORDING TO ASTM D 2487, OR A COMBINATION OF THESE GROUPS; FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER.

C. UNSATISFACTORY SOILS: SOIL CLASSIFICATION GROUPS SM, GC, SC, CL, ML, OL, CH, MH, OH, AND PT ACCORDING TO ASTM D 2487, OR A COMBINATION OF THESE GROUPS.
1. UNSATISFACTORY SOILS ALSO INCLUDE SATISFACTORY SOILS NOT MAINTAINED WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION.
2. UNSATISFACTORY MATERIALS ALSO INCLUDE MATERIALS BELOW STRUCTURES AND/OR FOUNDATIONS DETERMINED BY OWNER'S REPRESENTATIVES TO BE UNSATISFACTORY BEARING MATERIALS.

D. SUBBASE COURSE: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; MEETING NYSDOT SPECIFICATION FOR NYSDOT ITEM 304.11 SUBBASE COURSE TYPE 1. THE USE OF RECYCLED MATERIAL FROM ANY OFF-SITE SOURCE WILL NOT BE PERMITTED AND RECYCLED MATERIAL FROM ONSITE DEMOLITION MAY NOT BE USED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER.

E. STRUCTURAL FILL: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; WITH AT LEAST 90 PERCENT PASSING A 1-½" (37.5-MM) SIEVE AND NOT MORE THAN 12 PERCENT PASSING A NO. 200 (0.075-MM) SIEVE.

F. BEDDING COURSE: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND; ASTM D 2940; EXCEPT WITH 100 PERCENT PASSING A 1-INCH (25-MM) SIEVE AND 0 TO 5 PERCENT PASSING A NO.8 (2.36-MM) SIEVE.

G. DRAINAGE COURSE: NARROWLY GRADED MIXTURE OF WASHED CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL; ASTM D 448; COARSE-AGGREGATE GRADING SIZE 57; WITH 100 PERCENT PASSING A 1-½" (37.5-MM) SIEVE AND 0 TO 5 PERCENT PASSING A NO.8 (2.36-MM) SIEVE.

H. FILTER MATERIAL: NARROWLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, OR CRUSHED STONE AND NATURAL SAND; ASTM D 448; COARSE-AGGREGATE GRADING SIZE 67; WITH 100 PERCENT PASSING A 1" (25-MM) SIEVE AND 0 TO 5 PERCENT PASSING A NO.4 (4.75-MM) SIEVE.

I. TRAP ROCK: NARROWLY GRADED MIXTURE OF WASHED CRUSHED STONE ASTM D 448; CORASE-AGGREGATE GRADING SIZE 1; WITH 100 PERCENT PASSING A 4-INCH (100-MM) SIEVE AND 0 TO 15 PERCENT PASSING A 1-½" (37.5-MM) SIEVE.

J. SAND: ASTM C 33; FINE AGGREGATE.

K. TOPSOIL: SEE PLANTING MEDIA PREPARATION AND PLACEMENT SPECIFICATION.

SOIL MATERIALS NOTES
SCALE: N.T.S.

8

TITLE
SCALE: N.T.S.

9

TITLE
SCALE: N.T.S.

10

TITLE
SCALE: N.T.S.

11

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13

TITLE
SCALE: N.T.S.

14

TITLE
SCALE: N.T.S.

15

TITLE
SCALE: N.T.S.

16

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EXPIRES 1/31/27

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

HORACE GREELEY HIGH SCHOOL SITE DETAILS

Job No. 2023-1028	Sheet Number C300A-HG
Date 10/04/2023	
Scale N.T.S.	
Drawn / Checked BDZ/GMS	

General Notes:

1 The purpose of these drawings is to show the structural work associated with the new mechanical unit support at the Chappaqua Central School District Middle Schools in Chappaqua, NY.

2 The work shown on these drawings has been designed in accordance with the structural requirements of the 2020 edition of the Building Code of New York State.

3 The structural components have been designed for the following loads:

A. Uniform live load:
Rooftop Dunnage 30 psf

B. Roof loads:
Snow:
Ground snow load, p_g 30 psf
Flat roof snow load, p_f 21 psf
Exposure factor, C_e 1.0
Importance factor, I_s 1.0
Thermal factor, C_t 1.00

C. Wind design data:
Wind loads have been determined based on Section 1609.1.1 in accordance with ASCE 7-10, Chapters 26, 27, 29 and 30, Directional Procedure

Risk category III
Basic wind speed (3-second gust):
Ultimate design wind speed, Vult 125 mph
Nominal design wind speed, Vasd 97 mph
Exposure B

D. Earthquake design data:
Risk category III
Seismic importance factor, I_e: 1.00
Mapped short period spectral response accelerations, S_s: 0.287g
Mapped 1 second period spectral response accelerations, S_1: 0.061g
Site class: D

E. Other loads:
Concentrated loads:
Roof surfaces subject to maintenance workers 300 lbs

4 This structure has been designed to be self-supporting and stable after the work shown on these drawings has been completed. The stability of the structure prior to completion is solely the responsibility of the contractor. This responsibility extends to all related aspects of the construction activity including, but not limited to, erection methods, erection sequence, temporary bracing, forms, shoring, use of equipment, and similar construction procedures. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's construction procedures. Lack of comment on the part of the engineer with regard to construction procedures is not to be interpreted as approval of those procedures.

5 Jobsite safety and construction procedures are solely the responsibility of the contractor. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's provisions for job site safety. Lack of comment by the engineer is not to be interpreted as approval of those aspects of work.

6 Testing and inspection of structural steel, wood framing, and other work are described in the project "Statement of Special Inspections". The contractor shall review the "Statement of Special Inspections" and coordinate the scheduling of inspections with the special inspector. Uninspected work that required inspections may be rejected solely on that basis.

7 If faulty construction procedures, or material, result in defective work that requires additional engineering time to devise corrective measures, professional fees may be charged to the contractor at the standard hourly rate of additional services. Such fees may be withheld from the general contractor's payment.

8 Loads, openings and structure in any way related to requirements of other (non-structural) disciplines are shown for bidding purposes only. However, these plans do not show the full scope of openings, in roofs, floors and walls. For size and location of all openings, see architectural and mechanical drawings. Do not scale openings. The contractor shall obtain from the heating and ventilating, electrical, plumbing and other trades the final approved size and location of all openings, equipment and work to be provided for their trade for roofs, floors and walls, whether shown or not shown on structural drawings. Excess cost related to variation in requirements or equipment are not to be borne by the owner.

9 For any mechanical equipment weights used in design of supporting elements that are indicated on the drawings. Contractor shall notify the architect prior to installation of equipment if actual weight exceeds weight shown on drawings.

10 The contractor shall verify all dimensions, elevations and angles with architectural drawings and existing conditions before proceeding with any work.

11 The contractor shall field verify existing conditions before proceeding with any work. The contractor shall field verify all dimensions noted "±" that are indicated on the drawings.

12 The contractor and subcontractors shall obtain the latest copies of approved plans and surveys and they shall familiarize themselves thoroughly with these plans before commencing any work.

13 These drawings are supplemented by a detailed technical specification. The notes shown under certain categories of work are intended to summarize basic requirements.

14 Work shown as "Typical Details" apply throughout the project as required. Work shown as "Sections" shall be considered to apply for the same and similar conditions in the building.

15 Some details of the work are shown on the architectural drawings. A careful review and study of these details are necessary before the full scope of the work can be comprehended.

16 Do not scale drawings.

Codes and Standards References

1 Structural steel:
Design, fabrication and erection of structural steel shall conform to the "Specification for Structural Steel for Buildings" as adopted on June 22, 2010, by the American Institute of Steel Construction (AISC) and the 14th Edition of the AISC Steel Construction Manual.

Structural Steel Notes:

1 Design fabrication and erection of structural steel shall conform to the American Institute of Steel Construction's "Specification for Structural Steel for Buildings", as specified in the code reference section of these general notes.

2 Materials:
American standard shapes, angles,
Plates and bars: ASTM A 36
Welding electrode ASTM E 70xx, low hydrogen

3 All welding shall conform to American Welding Society's AWS D1.1 "Structural Welding Code-Steel" code for arc and gas welding and be performed by a certified welder in accordance with A.W.S. standards.

4 Structural steel shall be cleaned in accordance with the Steel Structures Painting Council Specification SP 3 for Power Tool Cleaning (except for steel exposed to weather).

5 For miscellaneous steel, see architectural drawings.

6 Existing steel surfaces to receive field welds shall be thoroughly cleaned and free from paint, rust, grease, etc.

7 Submittals to the engineer are required for certificates of compliance for structural steel and weld filler material prior to the fabrication of any steel

8 At the completion of fabrication, the fabricator shall submit a certificate of compliance stating that the work was performed in accordance with the approved contract documents, as required by Section 1704.2 of the building code indicated at the beginning of these General Notes.

DISTRICT-WIDE
CAPITAL IMPROVEMENTS

HIGH SCHOOL &
MIDDLE SCHOOL
HVAC UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
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CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

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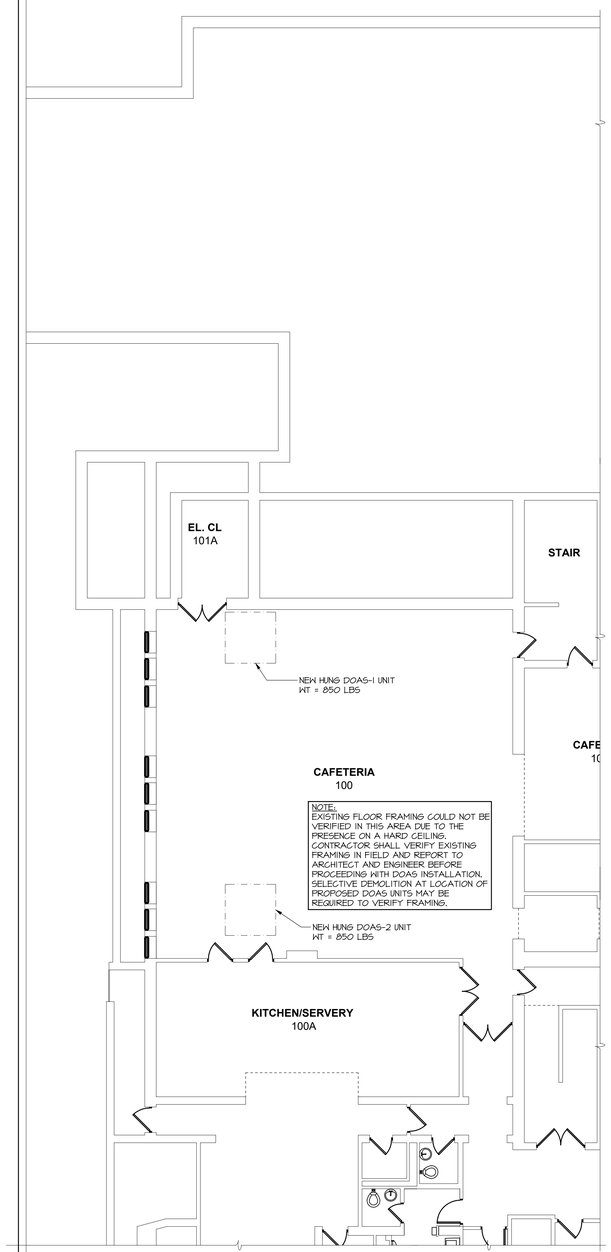
Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/01/2023	SCHEMATIC DESIGN

Sheet Title

GENERAL NOTES

Job No. 23039
Date 8/24/2023
Scale AS NOTED
Drawn / Checked JM/SGL
Sheet Number S001

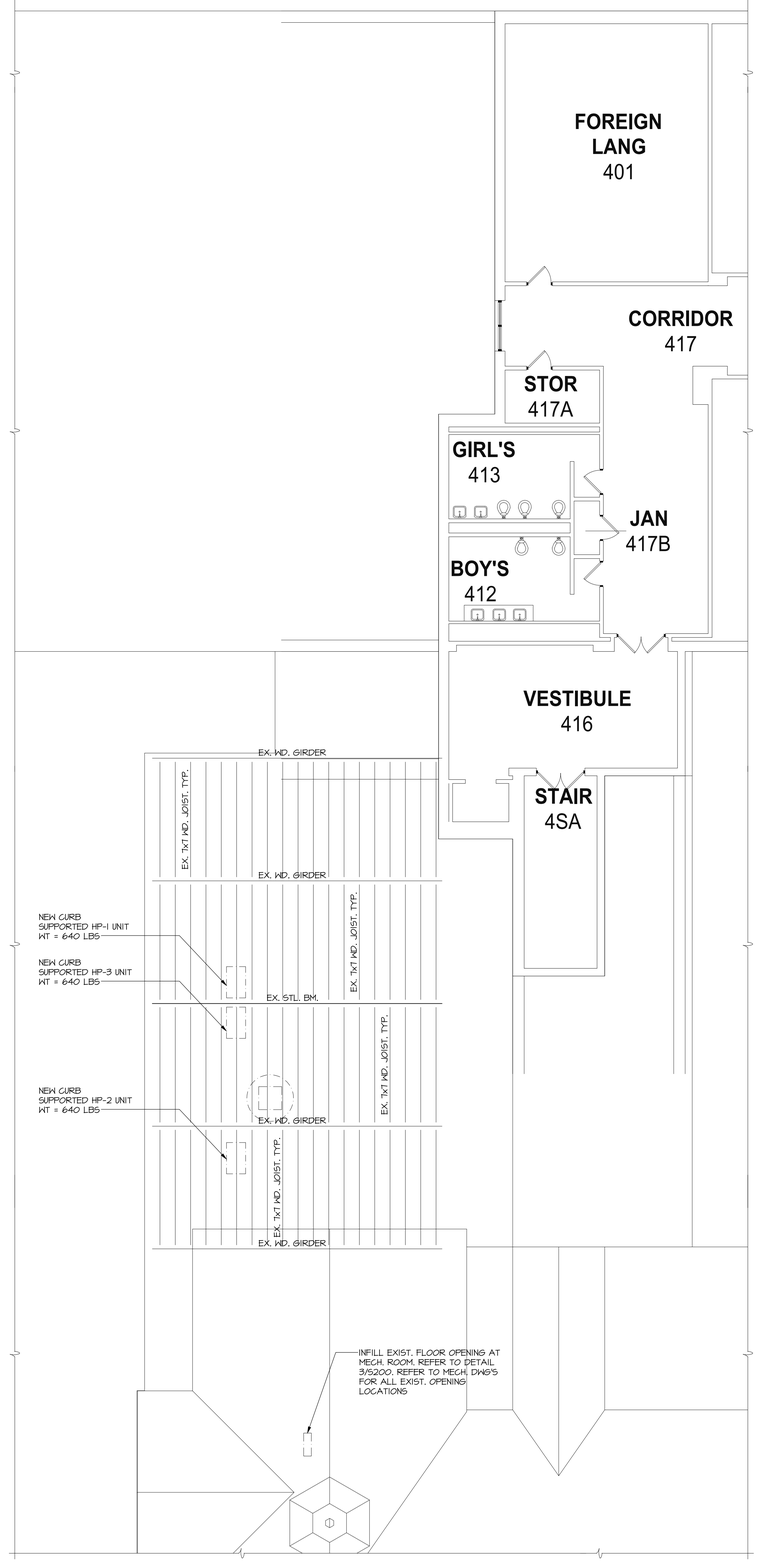


FIRST FLOOR HUNG UNITS

1/8" = 1'-0"

NORTH

- REFER TO GENERAL NOTES ON S001

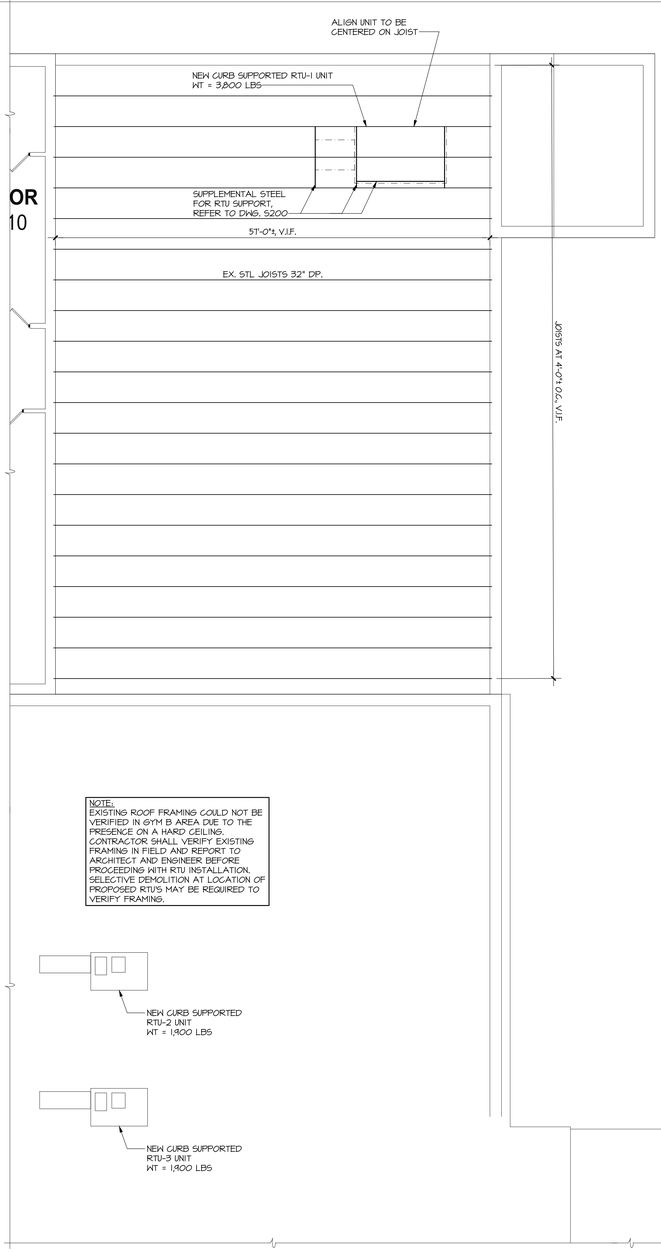


PARTIAL ROOF - AREA "B"

1/8" = 1'-0"

NORTH

- REFER TO GENERAL NOTES ON S001



PARTIAL ROOF - AREA "A"

1/8" = 1'-0"

NORTH

- REFER TO GENERAL NOTES ON S001
- REFER TO DWG. S200 FOR SUPPLEMENTAL STEEL FOR SUPPORT OF THE UNITS AND ROOF OPENINGS

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Chappaqua, NY 10514

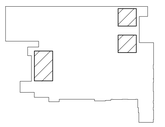
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Key Plan
Robert E. Bell Middle School



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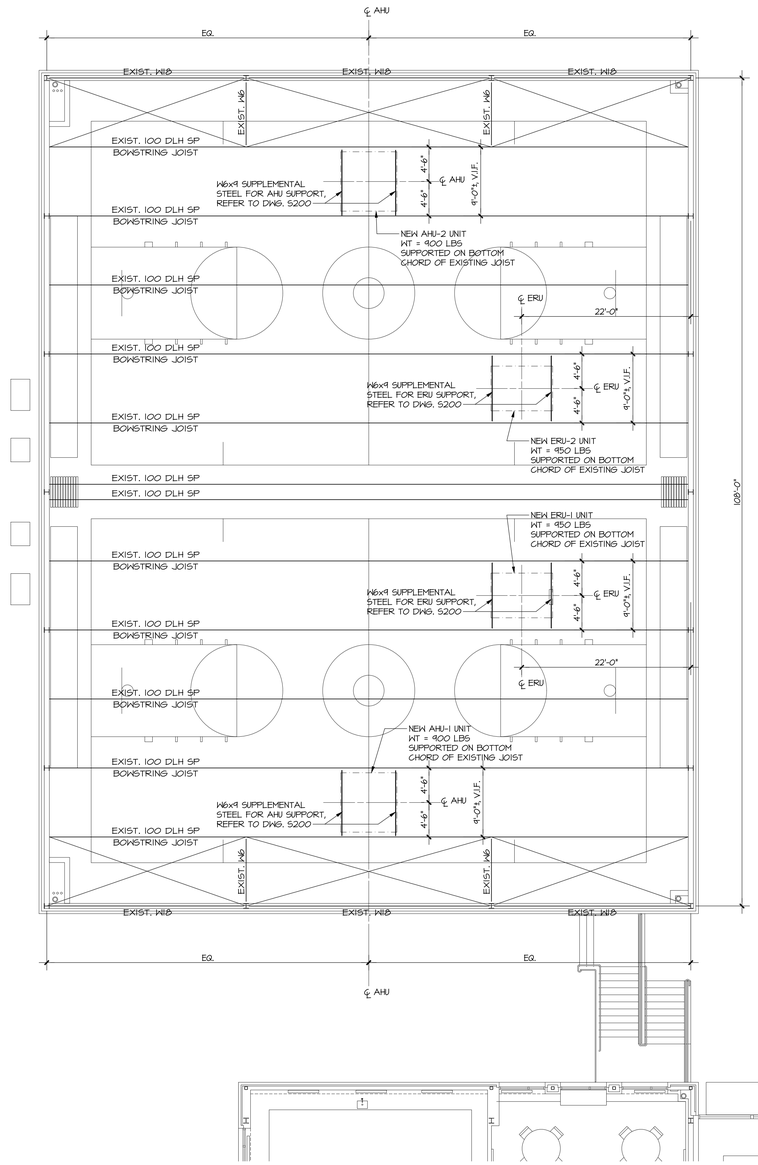
Professional Seal

No.	Date	Issue
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3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/01/2023	SCHEMATIC DESIGN

Sheet Title

BELL MS PART ROOF AND FIRST FLOOR FRAMING PLANS

Job No. 23039	Sheet Number S101-BE
Date 8/24/2023	
Scale AS NOTED	
Drawn / Checked JM/SGL	



GYM ROOF FRAMING PLAN

1/8" = 1'-0"

NORTH

- REFER TO GENERAL NOTES ON S001
- EXISTING BOWSTRING JOISTS HAVE BEEN ANALYZED USING THE DESIGN INFORMATION PROVIDED ON THE ORIGINAL CONSTRUCTION DOCUMENTS PREPARED BY NACHMAN ENGINEERING AND DATED 8/06/2001. EXISTING BOWSTRING TRUSS SIZE INCLUDING DEPTH, PANEL POINT SPACING, CHORD AND WEB SIZES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND REPORTED TO THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION OF THE UNITS.

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Chappaqua, NY 10514

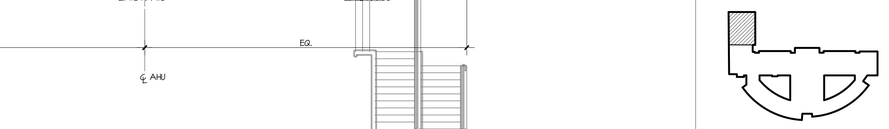
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Key Plan
Seven Bridges Middle School



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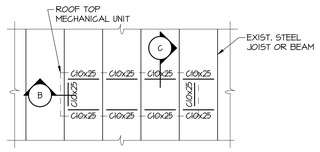
Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/01/2023	SCHEMATIC DESIGN

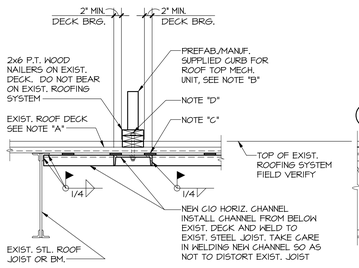
Sheet Title

SEVEN BRIDGES MS
GYM ROOF
FRAMING PLAN

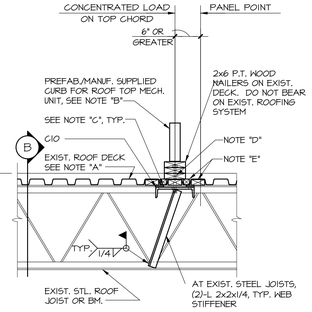
Job No. 23039	Sheet Number S102-SB
Date 8/24/2023	
Scale AS NOTED	
Drawn / Checked JM/SGL	



PLAN DETAIL A



SECTION B



SECTION C

NOTE "A":
EXISTING ROOF DECK: xx" METAL ROOF DECK. FIELD VERIFY.

NOTE "B":
SEE MECHANICAL DRAWINGS FOR CONNECTION OF CURB TO SUPPORTING STRUCTURE.

NOTE "C":
PROVIDE WELDED STEEL SHIMS AS REQUIRED BETWEEN HORIZONTAL CHANNEL AND EXISTING ROOF DECK

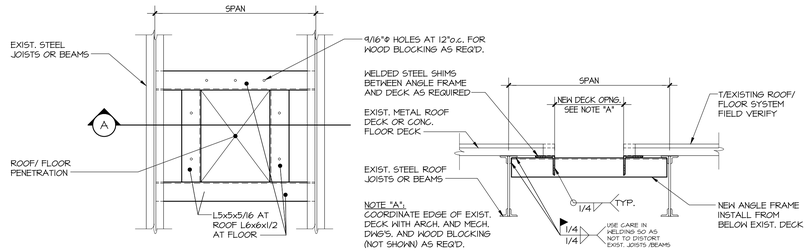
NOTE "D":
1/2"Ø x LENGTH AS REQ'D GALV. THREADED ANCHOR BOLTS AT 1'-0"o.c. DRILL THRU EXIST. ROOF DECK.

NOTE "E":
FILL DECK FLUTES (TOP AND BOTTOM) WITH 2x CONTINUOUS PRESERVATIVE TREATED WOOD BLOCKING.

TYPICAL ROOF TOP UNIT CURB ON EXIST. STEEL FRAMING DETAIL

NO SCALE

1 S200



SECTION A

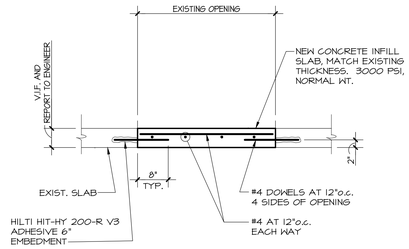
NOTES:

1. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL ROOF/ FLOOR PENETRATIONS.
2. WHEREVER POSSIBLE LOCATE SUPPORT POINTS OF FRAMES OVER TOP CHORD PANEL POINTS. SEE JOIST REINFORCING DETAIL FOR ADDITIONAL WEB MEMBERS.

TYP. ROOF/ FLOOR DECK PENETRATION DETAIL FOR EX. STEEL ROOF/ FLOOR FRAMING

NO SCALE

2 S200



EXISTING FLOOR OPENING INFILL DETAIL

NO SCALE

3 S200

DISTRICT-WIDE CAPITAL IMPROVEMENTS

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CONSTRUCTION DOCUMENTS

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No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/01/2023	SCHEMATIC DESIGN

Sheet Title

TYPICAL DETAILS

Job No. 23039	Sheet Number S200
Date 8/24/2023	
Scale AS NOTED	
Drawn / Checked JM/SGL	

General Notes:

1 The purpose of these drawings is to show the structural work associated with the new mechanical unit support at the Horrace Greeley High School in Chappaqua, NY.
2 The work shown on these drawings has been designed in accordance with the structural requirements of the 2020 edition of the Building Code of New York State.
3 The structural components have been designed for the following loads:
A. Uniform live load:
Rooftop Dunnage 30 psf
B. Roof loads:
Snow:
Ground snow load, p_g 30 psf
Flat roof snow load, p_f 21 psf
Exposure factor, C_e 1.0
Importance factor, I_s 1.0
Thermal factor, C_t 1.00
C. Wind design data:
Wind loads have been determined based on Section 1609.1.1 in accordance with ASCE 7-10, Chapters 26, 27, 29 and 30, Directional Procedure

Risk category III
Basic wind speed (3-second gust):
Ultimate design wind speed, Vult 125 mph
Nominal design wind speed, Vasd 97 mph
Exposure B
D. Earthquake design data:
Risk category III
Seismic importance factor, I_e: 1.00
Mapped short period spectral response accelerations, S_s: 0.287g
Mapped 1 second period spectral response accelerations, S_1: 0.061g
Site class: D
E. Other loads:
Concentrated loads:
Roof surfaces subject to maintenance workers 300 lbs
4 This structure has been designed to be self-supporting and stable after the work shown on these drawings has been completed. The stability of the structure prior to completion is solely the responsibility of the contractor. This responsibility extends to all related aspects of the construction activity including, but not limited to, erection methods, erection sequence, temporary bracing, forms, shoring, use of equipment, and similar construction procedures. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's construction procedures. Lack of comment on the part of the engineer with regard to construction procedures is not to be interpreted as approval of those procedures.
5 Jobsite safety and construction procedures are solely the responsibility of the contractor. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's provisions for job site safety. Lack of comment by the engineer is not to be interpreted as approval of those aspects of work.
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7 If faulty construction procedures, or material, result in defective work that requires additional engineering time to devise corrective measures, professional fees may be charged to the contractor at the standard hourly rate of additional services. Such fees may be withheld from the general contractor's payment.
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9 For any mechanical equipment weights used in design of supporting elements that are indicated on the drawings. Contractor shall notify the architect prior to installation of equipment if actual weight exceeds weight shown on drawings.
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11 The contractor shall field verify existing conditions before proceeding with any work. The contractor shall field verify all dimensions noted "±" that are indicated on the drawings.
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13 These drawings are supplemented by a detailed technical specification. The notes shown under certain categories of work are intended to summarize basic requirements.
14 Work shown as "Typical Details" apply throughout the project as required. Work shown as "Sections" shall be considered to apply for the same and similar conditions in the building.
15 Some details of the work are shown on the architectural drawings. A careful review and study of these details are necessary before the full scope of the work can be comprehended.
16 Do not scale drawings.

Codes and Standards References

1 Structural steel:
Design, fabrication and erection of structural steel shall conform to the "Specification for Structural Steel for Buildings" as adopted on June 22, 2010, by the American Institute of Steel Construction (AISC) and the 14th Edition of the AISC Steel Construction Manual.

Structural Steel Notes:

1 Design fabrication and erection of structural steel shall conform to the American Institute of Steel Construction's "Specification for Structural Steel for Buildings", as specified in the code reference section of these general notes.
2 Materials:
American standard shapes, angles,
Plates and bars: ASTM A 36
Welding electrode ASTM E 70xx, low hydrogen
3 All welding shall conform to American Welding Society's AWS D1.1 "Structural Welding Code-Steel" code for arc and gas welding and be performed by a certified welder in accordance with A.W.S. standards.
4 Structural steel shall be cleaned in accordance with the Steel Structures Painting Council Specification SP 3 for Power Tool Cleaning (except for steel exposed to weather).
5 For miscellaneous steel, see architectural drawings.
6 Existing steel surfaces to receive field welds shall be thoroughly cleaned and free from paint, rust, grease, etc.
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8 At the completion of fabrication, the fabricator shall submit a certificate of compliance stating that the work was performed in accordance with the approved contract documents, as required by Section 1704.2 of the building code indicated at the beginning of these General Notes.

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Key Plan
Robert E. Bell Middle School

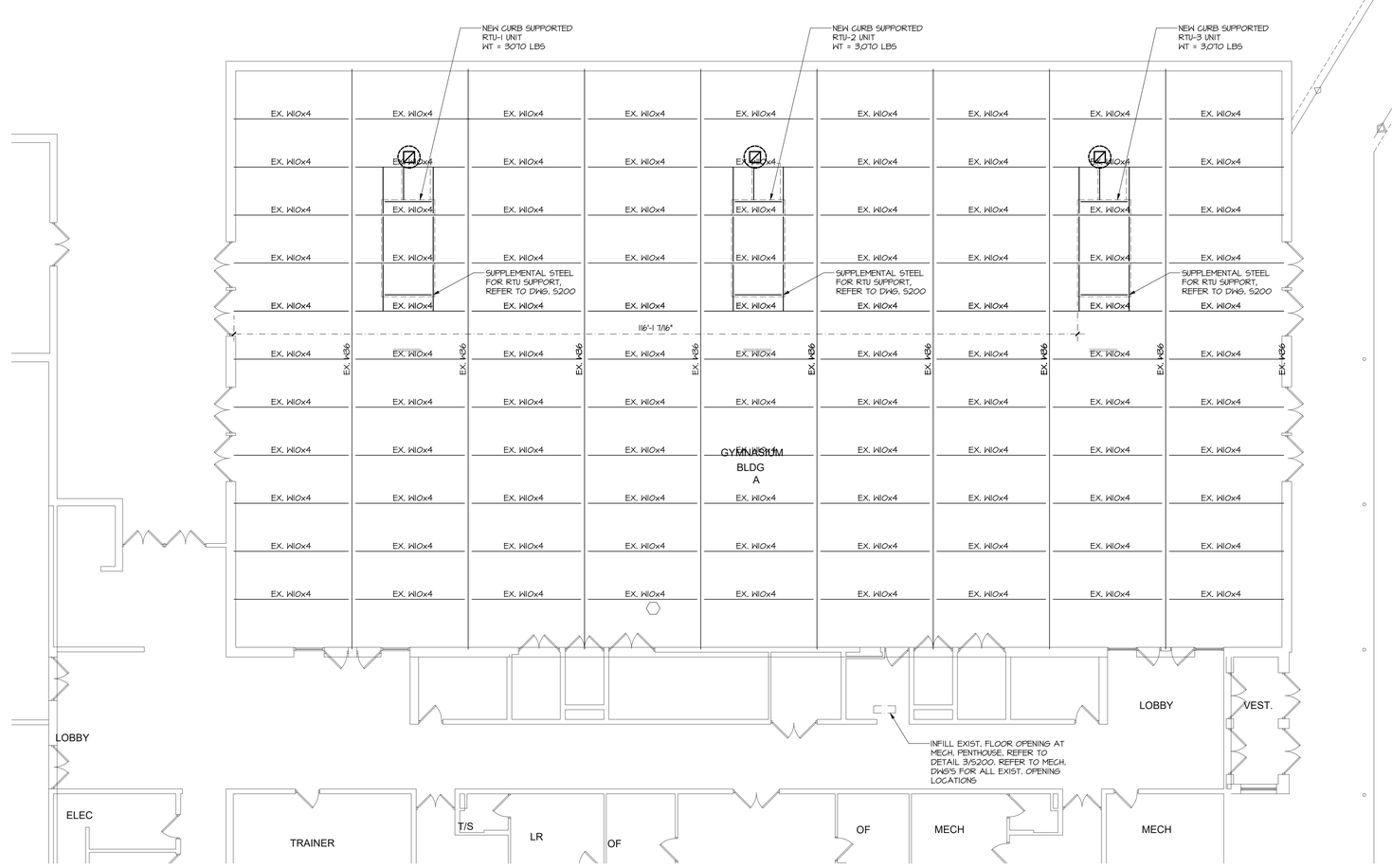
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3	10/27/2023	SED ISSUE
2	08/31/2023	DESIGN DEVELOPMENT
1	06/01/2023	SCHEMATIC DESIGN

Sheet Title
HORACE GREELEY
HIGH SCHOOL
GENERAL NOTES &
MATERIAL
SPECIFICATIONS

Job No. 23039
Date 8/24/2023
Scale AS NOTED
Drawn / Checked JM/SGL
Sheet Number S001-HG



BLDG "A" ROOF FRAMING PLAN

1/8" = 1'-0"

NORTH

- REFER TO GENERAL NOTES ON S001
- REFER TO DWG. S200 FOR SUPPLEMENTAL STEEL FOR SUPPORT OF THE UNITS AND ROOF OPENINGS

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

KG+D ARCHITECTS, PC
285 MAIN STREET•MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
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The DiSalvo Engineering Group
Structural Engineers
93 Lake Avenue, Suite 201
Danbury, CT 06810
[203] 490-4140 | www.tdeg.com

Key Plan
Robert E. Bell Middle School



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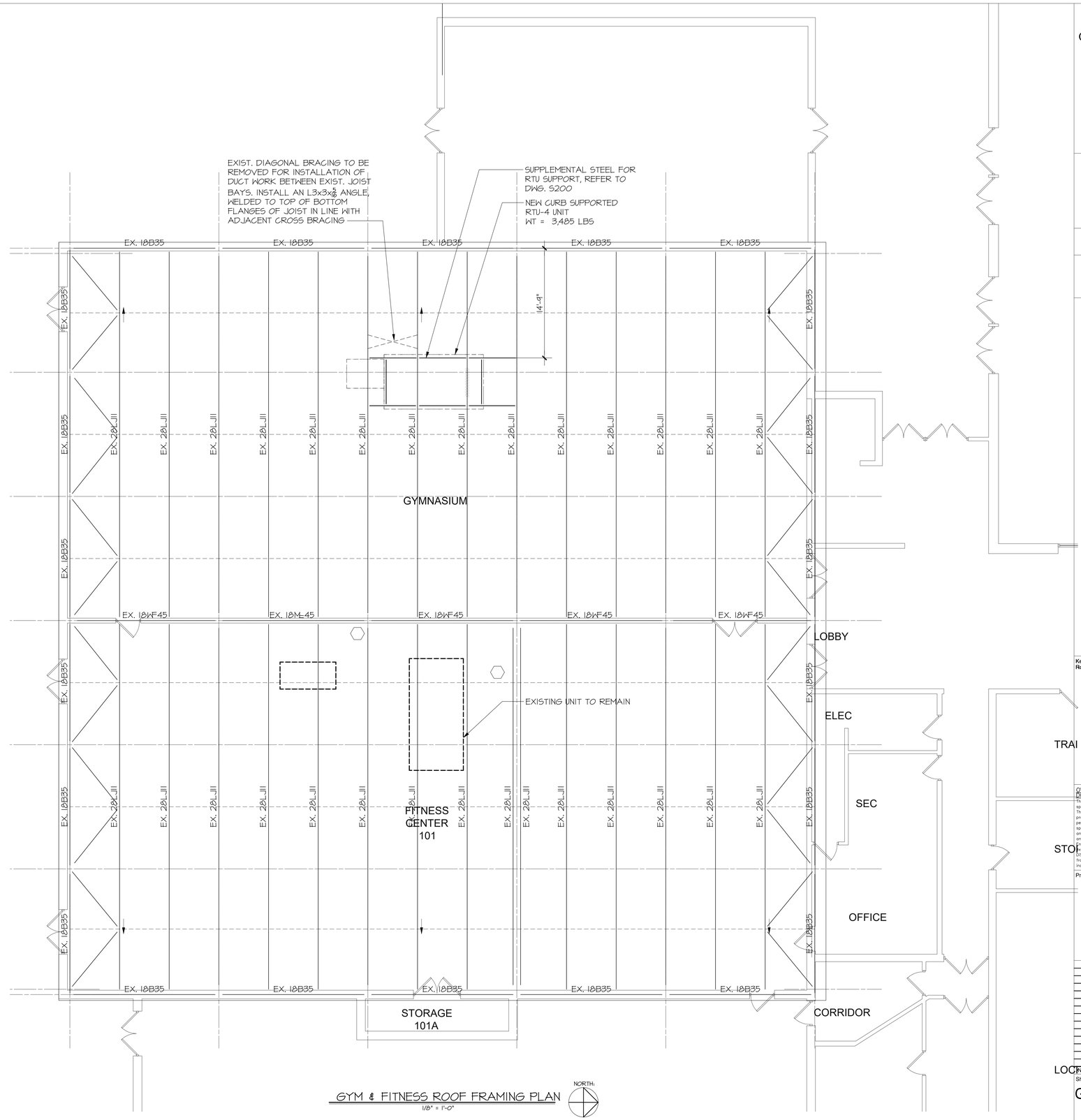
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Sheet Title

BLDG "A" ROOF FRAMING PLAN

Job No. 23039	Sheet Number S101-HG
Date 8/24/2023	
Scale AS NOTED	
Drawn / Checked JM/SGL	



GYM & FITNESS ROOF FRAMING PLAN

1/8" = 1'-0"

NORTH

- REFER TO GENERAL NOTES ON S001
- REFER TO DWG. S200 FOR SUPPLEMENTAL STEEL FOR SUPPORT OF THE UNITS AND ROOF OPENINGS

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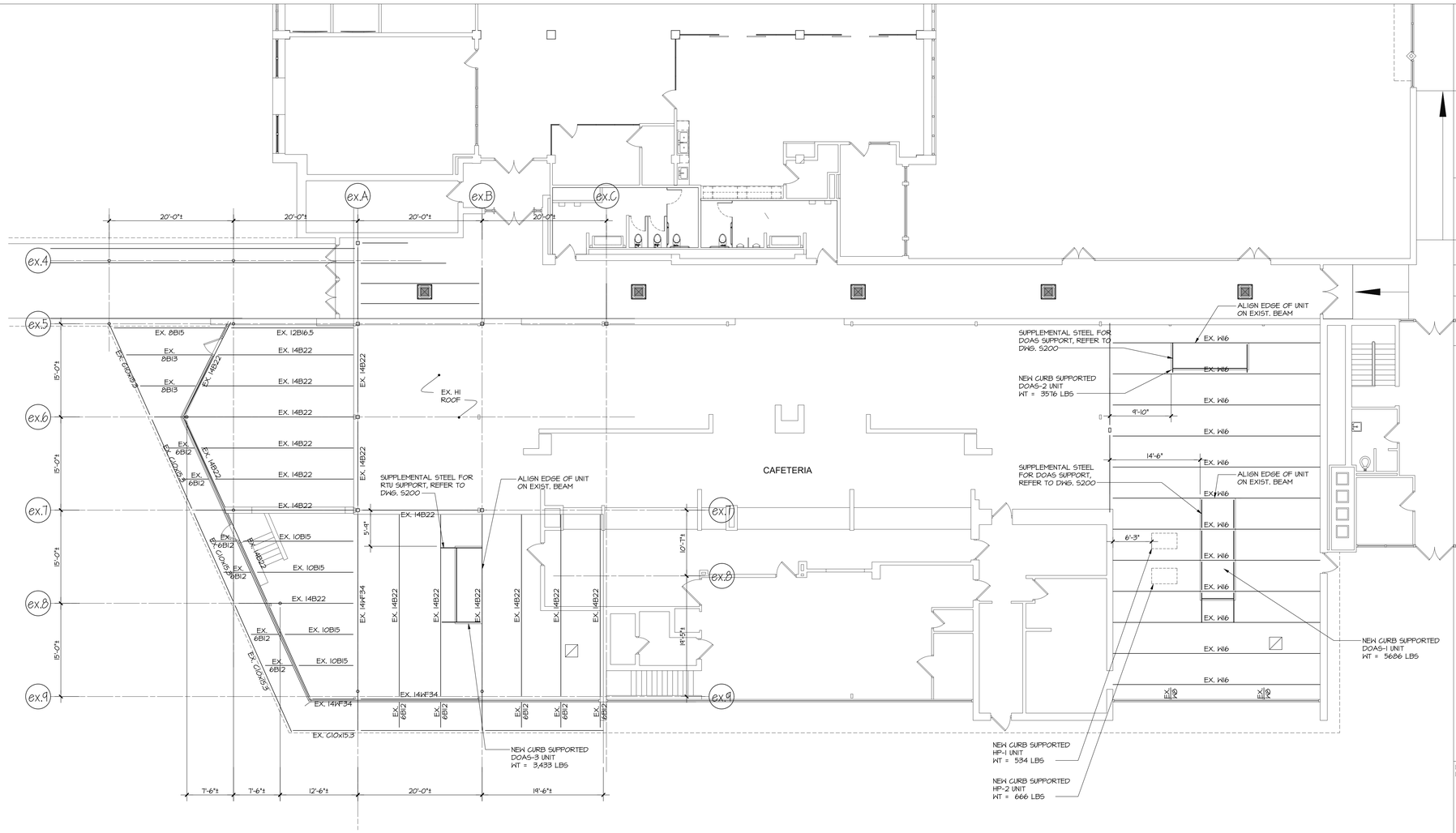
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Sheet Title
GYM & FITNESS ROOF FRAMING PLAN

Job No. 23039
Date 8/24/2023
Scale AS NOTED
Drawn / Checked JM/SGL

Sheet Number
S102-HG



CAFETERIA ROOF FRAMING PLAN

1/8" = 1'-0"

NORTH

- REFER TO GENERAL NOTES ON S001
- REFER TO DWG. S200 FOR SUPPLEMENTAL STEEL FOR SUPPORT OF THE UNITS AND ROOF OPENINGS

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
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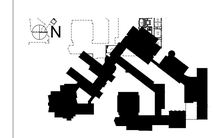
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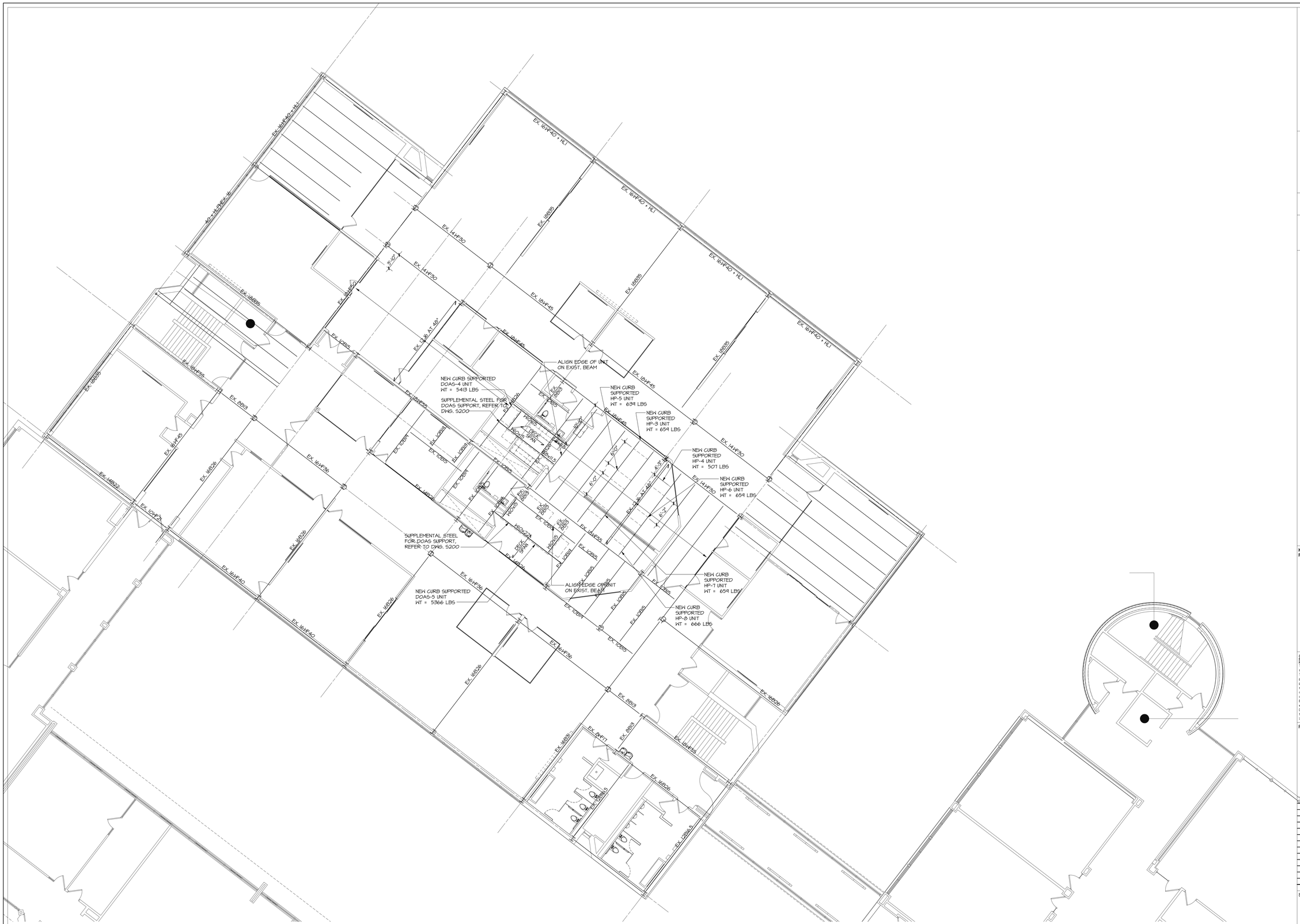
Professional Seal

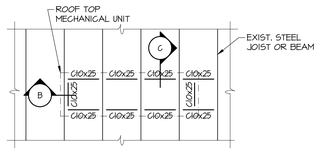
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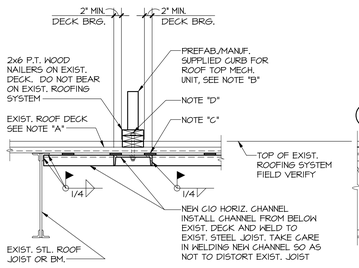
CAFETERIA ROOF PLAN

Job No. 23039	Sheet Number S103-HG
Date 8/24/2023	
Scale AS NOTED	
Drawn / Checked JM/SGL	

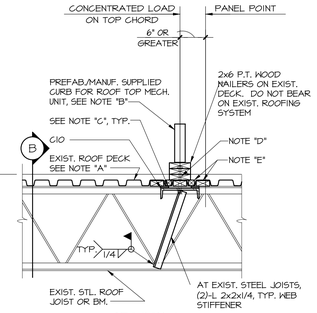

EX. 16"X40"+HL
EX. 14"X30"
EX. 18"X45"
EX. 12"X 24" X 48"
EX. 18"X35"
EX. 16"X36"
EX. 16"X40"
EX. 8"X13"
EX. 10"X24"
EX. W8X28
EX. W8X15
EX. W8X18
EX. W8X21
EX. W8X24
EX. W8X31
EX. W8X35
EX. W8X40
EX. W8X48
EX. W8X67
EX. W8X10
EX. W8X13
EX. W8X58
EX. W8X67
EX. W8X48
EX. W8X40
EX. W8X35
EX. W8X31
EX. W8X28
EX. W8X24
EX. W8X21
EX. W8X18
EX. W8X15
EX. W8X13
EX. W8X10
EX. W8X67
EX. W8X58



PLAN DETAIL A



SECTION B



SECTION C

NOTE "A":
EXISTING ROOF DECK: xx" METAL ROOF DECK. FIELD VERIFY.

NOTE "B":
SEE MECHANICAL DRAWINGS FOR CONNECTION OF CURB TO SUPPORTING STRUCTURE.

NOTE "C":
PROVIDE WELDED STEEL SHIMS AS REQUIRED BETWEEN HORIZONTAL CHANNEL AND EXISTING ROOF DECK

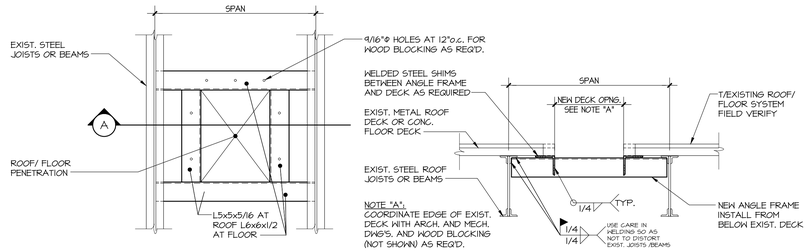
NOTE "D":
1/2"Ø x LENGTH AS REQ'D GALV. THREADED ANCHOR BOLTS AT 1'-0"o.c. DRILL THRU EXIST. ROOF DECK.

NOTE "E":
FILL DECK FLUTES (TOP AND BOTTOM) WITH 2x CONTINUOUS PRESERVATIVE TREATED WOOD BLOCKING.

TYPICAL ROOF TOP UNIT CURB ON EXIST. STEEL FRAMING DETAIL

NO SCALE

1 S200



SECTION A

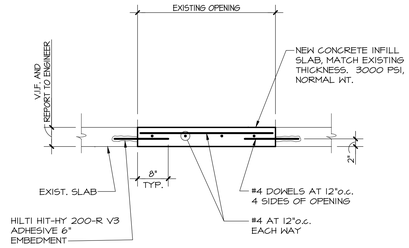
NOTES:

1. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL ROOF/ FLOOR PENETRATIONS.
2. WHEREVER POSSIBLE LOCATE SUPPORT POINTS OF FRAMES OVER TOP CHORD PANEL POINTS. SEE JOIST REINFORCING DETAIL FOR ADDITIONAL WEB MEMBERS.

TYP. ROOF/ FLOOR DECK PENETRATION DETAIL FOR EX. STEEL ROOF/ FLOOR FRAMING

NO SCALE

2 S200



EXISTING FLOOR OPENING INFILL DETAIL

NO SCALE

2 S200

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Sheet Title

HORACE GREELEY HIGH SCHOOL TYPICAL DETAILS

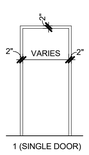
Job No.	Sheet Number
23039	S200-HG
Date: 8/24/2023	
Scale: AS NOTED	
Drawn / Checked: JM/SGL	

DOOR SCHEDULE

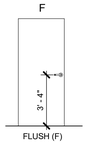
MARK	#	SIZE WI	SIZE HT	DOOR ELEV	DOOR MAT	DOOR FIN	FRAME MAT	FRAME FIN	FIRE RATING	SADDLE	HDWE SET	COMMENTS
BE-1	1	3' - 0"	7' - 0"	F	HM	P	HM	P	90	-	SE	
BE-2	1	3' - 0"	7' - 0"	F	HM	P	HM	P	-	-	SE	

NOTES:
1) DOORS, FRAMES & HARDWARE SHALL MATCH SIMILAR TO EXISTING COMPONENTS.
2) HARDWARE SHALL BE COMPATIBLE WITH OWNER'S SECURITY SYSTEM. COORDINATE w/ OWNER'S SECURITY VENDOR.
3) SEE SPEC SECTION 087101 FOR HARDWARE SET INFORMATION & TYPICAL HARDWARE NOTES.
ST: STORAGE HARDWARE SET

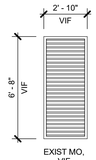
ABBREVIATIONS: AL- ALUMINUM; EX- EXISTING; FF- FACTORY FINISH; HDWE- HARDWARE SET; HM- HOLLOW METAL; P-PAINT; WD- WOOD



1 (SINGLE DOOR)



FLUSH (F)



EXIST MO, VIF

LOUVER NOTES

1. LOUVERS SHALL BE 4" DEEP ALUM HORIZONTAL BLADE, STORM-PROOF, DRAINABLE, w/ 50% FREE AREA (MIN) IN PREMIUM (KYNAR) METALLIC (OR CUSTOM) COLOR SELECTED BY ARCHITECT, w/ BIRD SCREEN (SIM TO RUSKIN ELF375DX)

2. GC SHALL PROVIDE LOUVERS & SHALL COORDINATE FREE AREA REQ'D w/ MC.

3. MC SHALL BLANK-OFF UNUSED PORTION w/ PTD SHEET METAL & INSULATE ALL UNUSED PORTIONS

F FRAME TYPES
1/4" = 1'-0"

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

L1 LOUVER TYPE L1
1/4" = 1'-0"

DOOR NOTES

1. COORDINATE KEYING WITH OWNER PRIOR TO ORDERING HARDWARE.

2. ALL INTERIOR DOOR FRAMES SHALL BE FULLY WELDED TYPE. KNOCKDOWN (KD) FRAMES SHALL NOT BE USED.

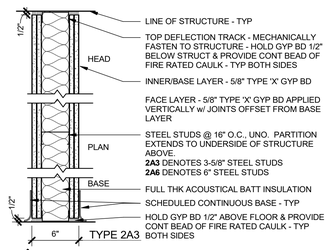
3. VERIFY HOLD-OPENS & STOPS w/ ADJACENT CONDITIONS.

4. PROVIDE KICK PLATE ON PUSH SIDE OF ALL DOORS. PROVIDE MOP PLATES ON PULL SIDE OF ALL DOORS.

5. PROVIDE (3) SILENCERS ON ALL STRIKE JAMBS.

6. PROVIDE APPROPRIATE WALL, OR OVERHEAD STOP FOR EACH DOOR LOCATION. FLOOR STOPS SHALL NOT BE USED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT.

7. ALL HARDWARE SHALL BE FULL MORTISE DESIGN UNLESS NOTED OTHERWISE.



2A- 2 hr FIRE RESISTIVE - UL #U419

DESIGN STC = 59
FIELD STC = 55 (MIN)

NOTE: ASSEMBLE PER UL FIRE RESISTANCE REQUIREMENTS

PARTITION NOTES

1. PROVIDE DEFLECTION TRACK AT TOP OF ALL PARTITIONS THAT EXTEND TO STRUCTURE ABOVE, (TYPICAL). PROVIDE FIRE-RATED DEFLECTION TRACK SYSTEM AT TOP OF ALL FIRE-RATED PARTITIONS.

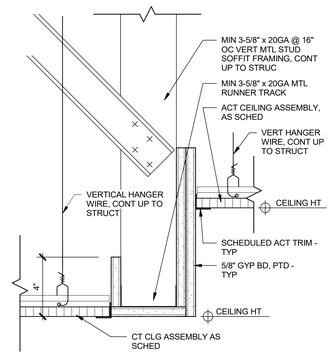
2. SEE SPECIFICATIONS FOR FIRESTOPPING REQUIREMENTS.

3. WHERE ACOUSTICAL BATT INSULATION IS USED IN PARTITIONS: SEAL AIRTIGHT w/ NON-HARDENING ACOUSTICAL SEALANT AT TOP, BOTTOM & SIDES. PARTITION MOUNTED ELECTRICAL BOXES SHOULD BE OFFSET MIN 24" (NOT BACK TO BACK) w/ PERIMETER OF BOXES SEALED AIR-TIGHT w/ NON-HARDENING ACOUSTICAL PUTTY PADS. PIPE & DUCT PENETRATIONS SHALL BE SLEEVED, PACKED w/ 10lb. DENSITY CLOSED CELL FOAM, & SEALED TO PARTITION w/ NON-HARDENING ACOUSTICAL SEALANT. FIRE RATED PARTITIONS TO RECEIVE FIRE RATED PUTTY PADS.

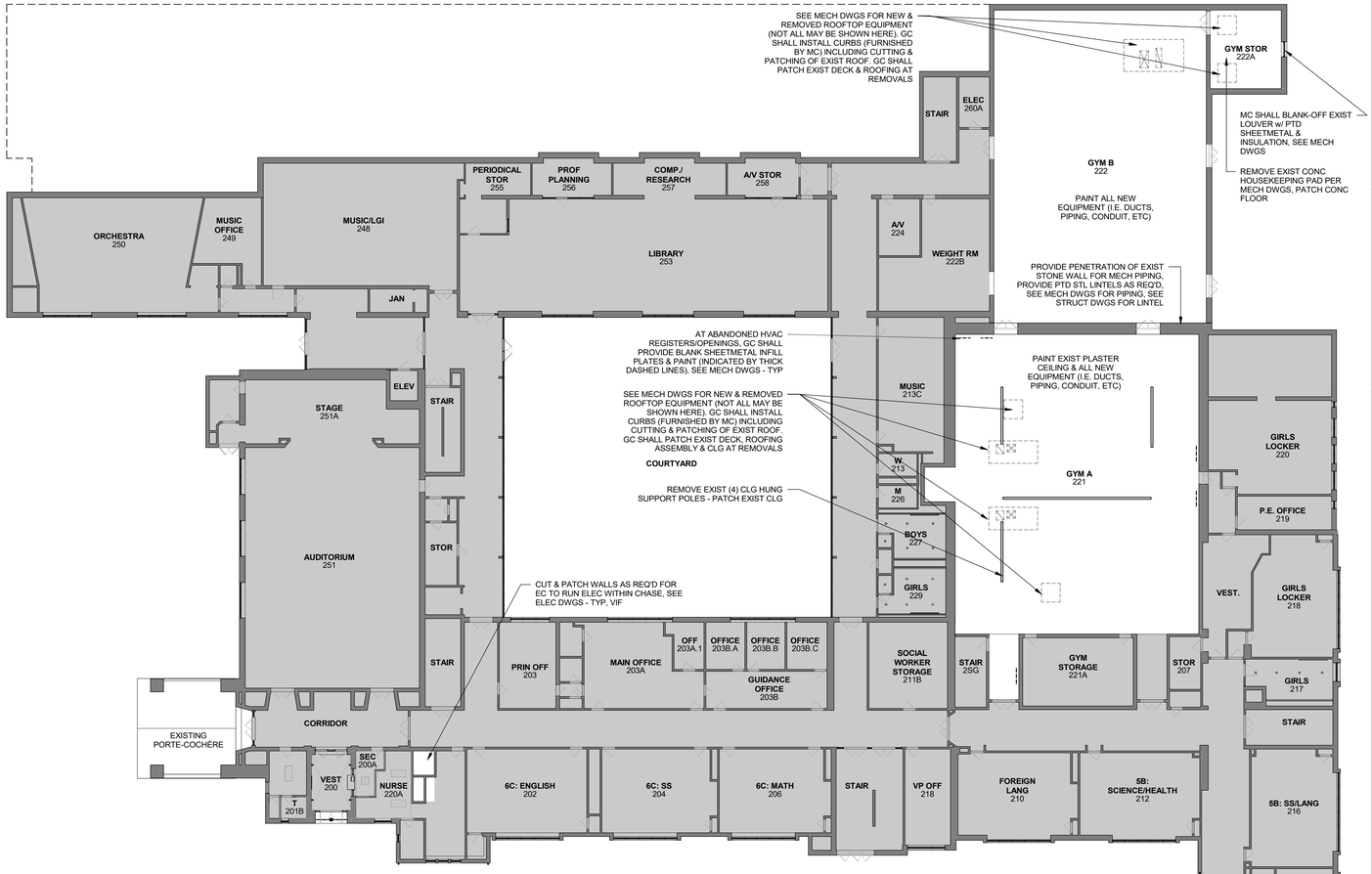
4. PROVIDE 'INSULHOLD' HANGERS OR EQ BATT RETAINING CLIPS HORIZONTALLY @ MAX 48" SPACING PER MFG SPECS IN ALL SINGLE SIDED (GYP BD) FURRING PARTITIONS.

5. COORDINATE REQUIRED STUD GAUGE WITH STRUCTURAL DRAWINGS & SPECIFICATIONS - TYP

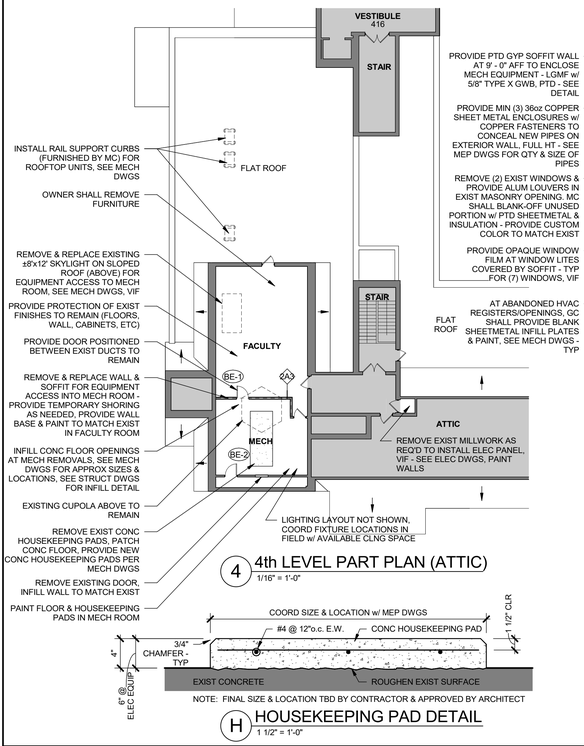
6. WHEN (2) LAYERS OF TYPE 'X' GYP BD ARE REQUIRED, OUTER LAYER SHALL BE 5/8" THK ABUSE RESISTANT TYPE.



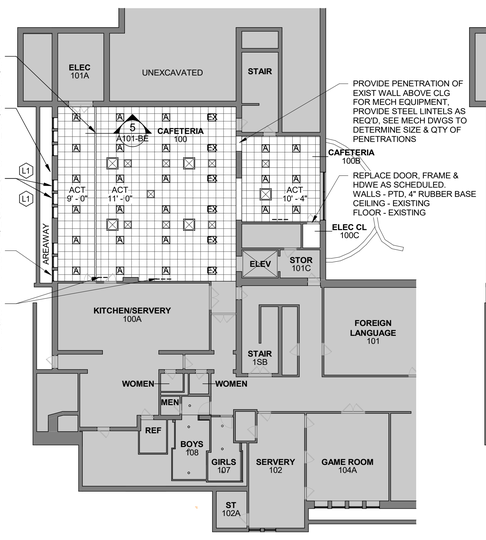
5 TYPICAL SOFFIT DETAIL
3" = 1'-0"



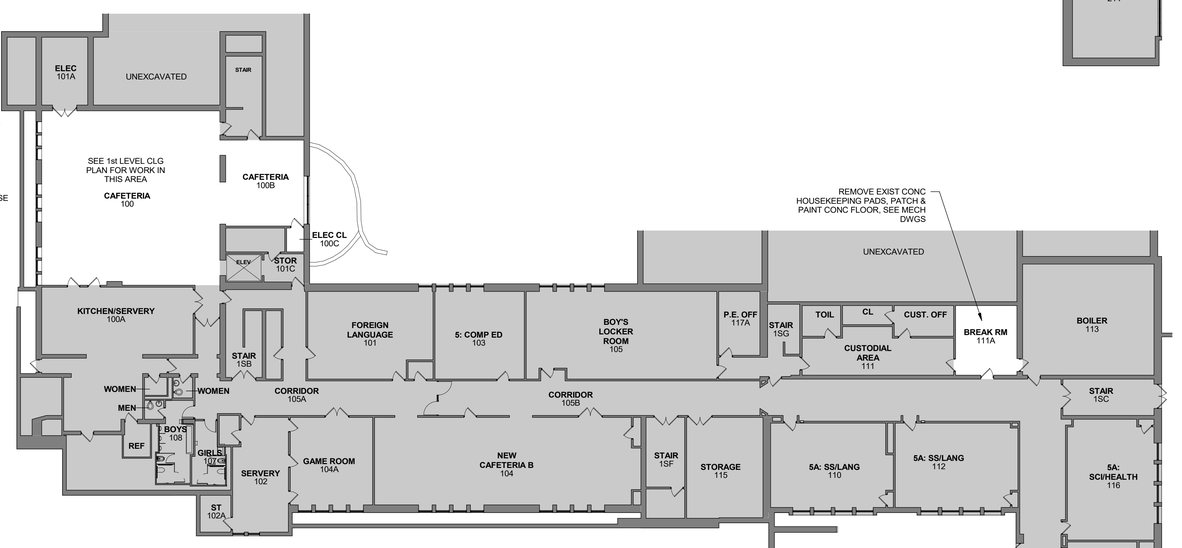
2C 2nd LEVEL CEILING PLAN
1/16" = 1'-0"



4 4th LEVEL PART PLAN (ATTIC)
1/16" = 1'-0"



1C 1st LEVEL CEILING PART PLAN
1/16" = 1'-0"



1 1st LEVEL FLOOR PLAN
1/16" = 1'-0"

NOTE: FINAL SIZE & LOCATION TBD BY CONTRACTOR & APPROVED BY ARCHITECT

H HOUSEKEEPING PAD DETAIL
1 1/2" = 1'-0"

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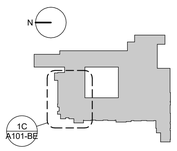
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GENERAL NOTES

1. DENOTES AREA OF NO MAJOR ARCHITECTURAL WORK, SPECIFIC WORK MAY BE SHOWN ELSEWHERE, REFER TO MEP DWGS
2. (101) DENOTES DOOR NUMBER, SEE DOOR SCHEDULE. SEE SPECS FOR HARDWARE SETS & INFO
3. DENOTES EXISTING WALL TO REMAIN
4. DENOTES 1hr OR NON-RATED WALL
5. DENOTES 2hr RATED WALL
6. DENOTES WALL TYPE & FIRE RATING, WHERE SHOWN
7. DENOTES WINDOW / LOUVER TYPE
8. ALL CORRIDOR WALLS ARE TO HAVE AT LEAST A 1hr FIRE RATING (EVEN IF NOT LABELED)
9. DIMENSIONS SHOWN FOR INTERIOR WALLS ARE: 'FACE OF GWB' OR 'FACE OF CMU'
10. DENOTES EXISTING DOOR TO REMAIN (U.N.O.)
11. (101) DENOTES NEW DOOR, FRAME, & HARDWARE, SEE NOTE 2 (ABOVE)
12. CEILINGS GRIDS SHALL BE CENTERED IN ROOM U.N.O. ALL CEILING FIXTURES, INCLUDING EXIT SIGNS, HVAC REGISTERS, SHALL BE CENTERED IN CEILING TILES.
13. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE
14. 2x2 ACT AS SCHEDULED
15. SUPPLY, SEE MECH DWGS
16. SEE MECH DWGS

Key Plan
Robert E. Bell Middle School



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Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD

Sheet Title

ROBERT E. BELL MIDDLE SCHOOL PLANS & DETAILS

Job No. 2023-1028	Sheet Number A101-BE
Date 08/31/2023	
Scale AS NOTED	
Drawn / Checked - / -	



EXISTING CONDITIONS PHOTO OF SKYLIGHT AT BELL MIDDLE SCHOOL



EXISTING CONDITIONS PHOTO OF SKYLIGHT AT BELL MIDDLE SCHOOL

ROOF NOTES

1. PROVIDE TAPERED ISOCYANURATE CRICKET AT NEW EQUIPMENT CURBS - SLOPE 1/2" PER FOOT.

2. PROVIDE 1/2" THICK COVER BOARD OVER ALL NEW ISOCYANURATE INSULATION.

3. DIMENSIONS AND CONDITIONS SHOWN IN THE DETAILS ARE APPROXIMATE AND MUST BE CONFIRMED BY THE CONTRACTOR. ONLY CERTAIN FASTENERS ARE SHOWN ON THE DRAWINGS. REFER TO THE SPECIFICATIONS & MANUFACTURER'S RECOMMENDATIONS FOR ADDITIONAL FASTENER REQUIREMENTS.

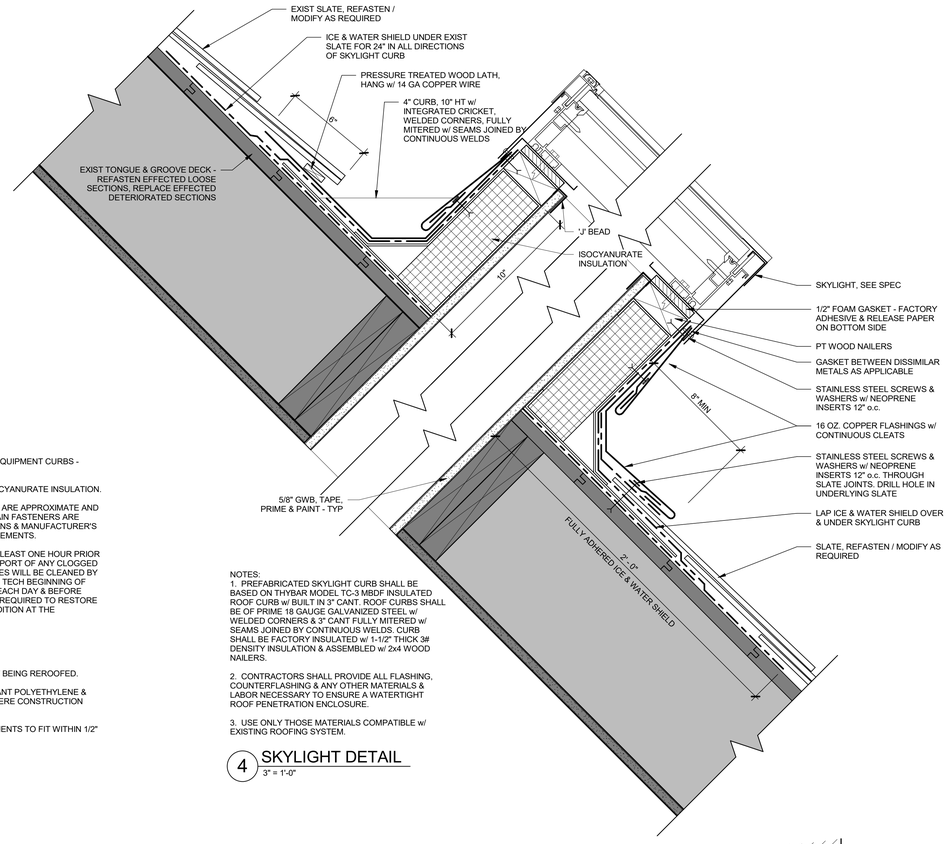
4. TEST THE DRAIN LINES WITH A RUNNING HOSE FOR AT LEAST ONE HOUR PRIOR TO STARTING ANY OTHER WORK. PROVIDE A WRITTEN REPORT OF ANY CLOGGED LINES TO THE ARCHITECT & OWNER. CLOGGED DRAIN LINES WILL BE CLEANED BY THE OWNER. COVER & PROTECT ALL DRAIN OPENINGS AT TECH BEGINNING OF EACH WORK DAY. REMOVE THE COVERS AT THE END OF EACH DAY & BEFORE PRECIPITATION OCCURS. PERFORM WHATEVER WORK IS REQUIRED TO RESTORE THE DRAIN LINES TO CLEAN, CLEAR, FREE FLOWING CONDITION AT THE COMPLETION OF THE PROJECT.

ROOF PROTECTION NOTES

1. DO NOT WALK ON OR TRAFFIC OVER ROOF AREAS NOT BEING REROOFED.

2. INSTALL 1" THICK EPS INSULATION, 6 MIL FIRE RETARDANT POLYETHYLENE & 2X10 WOOD PLANKS TO PROTECT EXISTING ROOFING WHERE CONSTRUCTION WORK & TRAFFIC WILL OCCUR.

3. NEATLY CUT & POSITION ROOF PENETRATION COMPONENTS TO FIT WITHIN 1/2" OF ROOF PENETRATIONS.

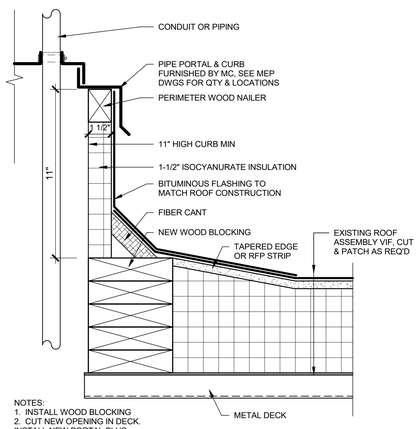


NOTES:
1. PREFABRICATED SKYLIGHT CURB SHALL BE BASED ON THYBAR MODEL TC-3 MBDF INSULATED ROOF CURB w/ BUILT IN 3° CANT. ROOF CURBS SHALL BE OF PRIME 18 GAUGE GALVANIZED STEEL w/ WELDED CORNERS & 3° CANT FULLY MITERED w/ SEAMS JOINED BY CONTINUOUS WELDS. CURB SHALL BE FACTORY INSULATED w/ 1-1/2" THICK 3# DENSITY INSULATION & ASSEMBLED w/ 2x4 WOOD NAILERS.

2. CONTRACTORS SHALL PROVIDE ALL FLASHING, COUNTERFLASHING & ANY OTHER MATERIALS & LABOR NECESSARY TO ENSURE A WATERTIGHT ROOF PENETRATION ENCLOSURE.

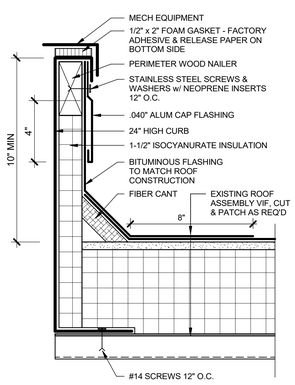
3. USE ONLY THOSE MATERIALS COMPATIBLE w/ EXISTING ROOFING SYSTEM.

4 SKYLIGHT DETAIL
3" = 1'-0"

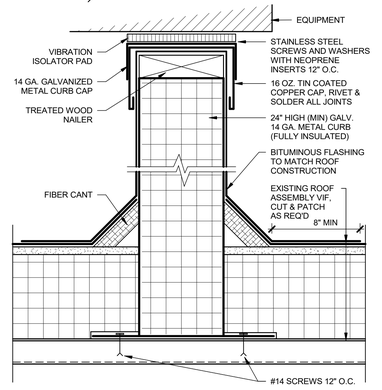


NOTES:
1. INSTALL WOOD BLOCKING
2. CUT NEW OPENING IN DECK. INSTALL NEW PORTAL PLUS CURBS.

3 PIPE PORTAL PLUS CURB
3" = 1'-0"



2 TYPICAL EQUIPMENT CURB
3" = 1'-0"



1 TYPICAL RAIL SUPPORT CURB
3" = 1'-0"

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

Key Plan
Robert E. Bell Middle School

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Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID

Sheet Title

ROBERT E. BELL MIDDLE SCHOOL DETAILS

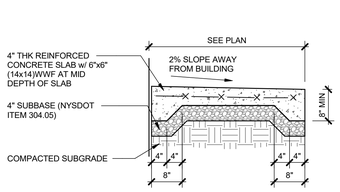
Job No. 2023-1028	Sheet Number A102-BE
Date 10/07/2024	
Scale AS NOTED	
Drawn / Checked - / -	



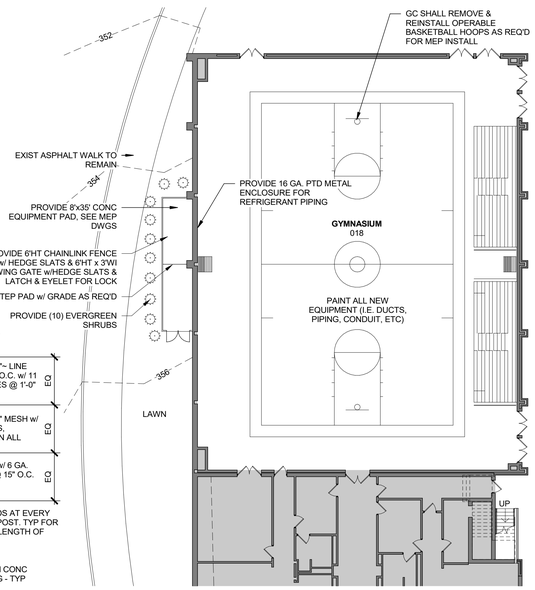
EXISTING CONDITIONS PHOTO FROM NORTHWEST CORNER OF SEVEN BRIDGES MIDDLE SCHOOL GYM EXTERIOR



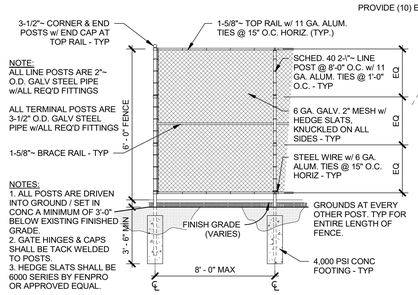
EXISTING CONDITIONS PHOTO FROM SOUTHWEST CORNER OF SEVEN BRIDGES MIDDLE SCHOOL GYM EXTERIOR



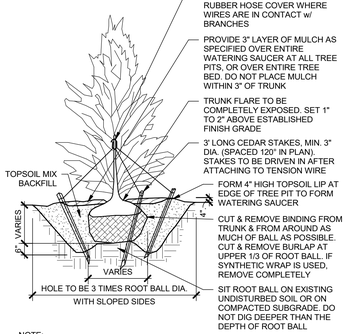
2 DETAIL @ CONCRETE PAD
3/4" = 1'-0"



4 1st LEVEL PART PLAN - SEVEN BRIDGES
1/16" = 1'-0"



3 DETAIL @ FENCE PANELS
1/32" = 1'-0"



NOTE:
PROVIDE STAKING & GUYING FOR TREES PLANTED ON SLOPES GREATER THAN 3H: 1V, IN EXPOSED, WINDY AREAS & AS SPECIFIED BY LANDSCAPE ARCHITECT. GUY WIRES & STAKES SHALL BE REMOVED WITHIN 12 MONTHS OF PLANTING.

5 EVERGREEN TREE PLANTING DETAIL
3/8" = 1'-0"

DISTRICT-WIDE
CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

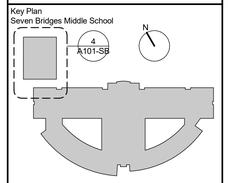
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P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

Key Plan
Seven Bridges Middle School



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Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID

Sheet Title

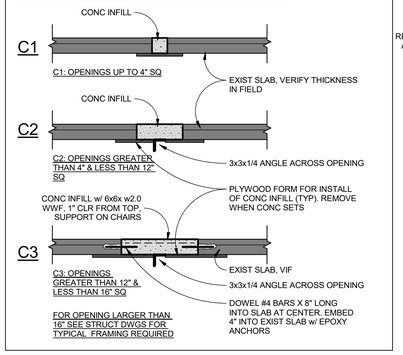
SEVEN BRIDGES MIDDLE SCHOOL PLANS & DETAILS

Job No. 2023-1028	Sheet Number A101-SB
Date 10/07/2024	
Scale AS NOTED	
Drawn / Checked - / -	

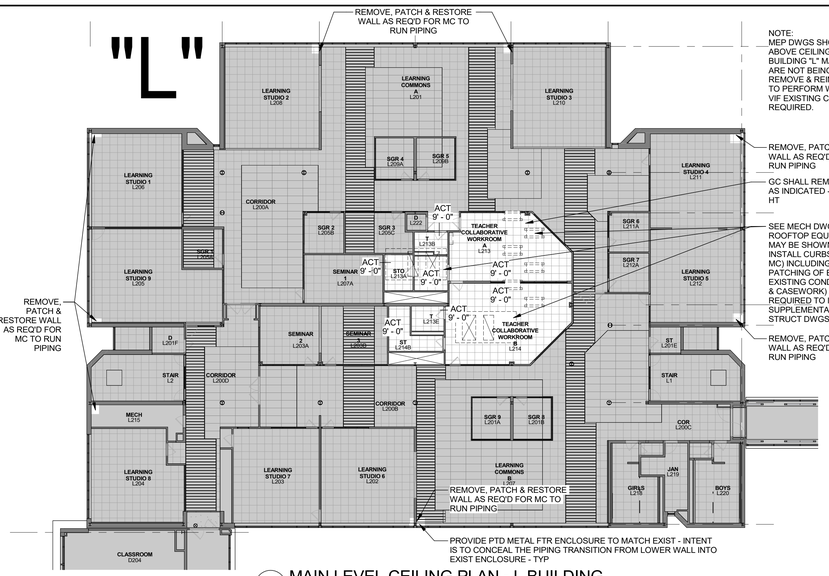
CONCRETE SLAB REPAIR NOTES

1. FOR HOLES 0"-4", PATCH HOLE WITH CONCRETE (SEE DETAIL C1). REINFORCEMENT NOT REQUIRED.
2. FOR HOLES 4"-12", PROVIDE 3"x3"x1/4" ANGLE AS SHOWN (SEE DETAIL C2). SECURE ANGLE TO EXIST SLAB WITH EPOXY ANCHORS.
3. FOR HOLES GREATER THAN 12", PROVIDE WWM & 8" DOWEL EVERY 90 DEGREE FACE w/ 3x3x1/4" ANGLE AS SHOWN (SEE DETAIL C3). SECURE ANGLE TO EXIST CONC w/EPOXY ANCHORS.
4. FOR HOLES LARGER THAN 16" CONTACT ARCHITECT FOR ADD'L INSTRUCTION.
5. PROVIDE 4000PSI CONC TO PATCH HOLES.
6. TRIM EDGES OF HOLES AS REQUIRED FOR PROPER INSTALLATION.
7. PLYWOOD FOR FORMWORK SHALL BE 3/4" THICK FIRE-RETARDANT TREATED IN COMPLIANCE w/ AWPA C27 & HAS BEEN TESTED PER ASTM D 5516. IDENTIFY w/ APPROPRIATE CLASSIFICATION MARKING OF UL, US TESTING, TIMBER PRODUCTS INSPECTION, OR ANOTHER TESTING & INSPECTION AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

CONCRETE SLAB REPAIR DETAILS



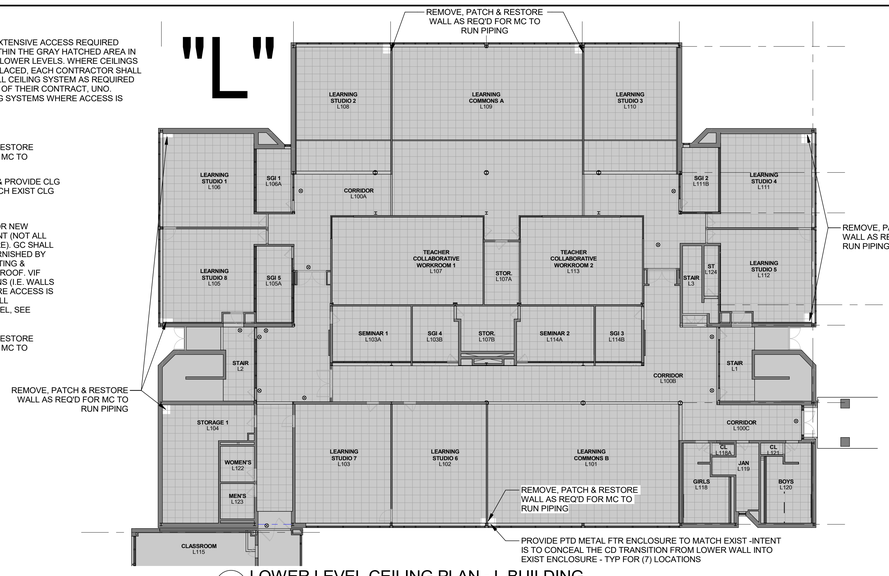
"L"



NOTE:
MEP DWGS SHOW EXTENSIVE ACCESS REQUIRED ABOVE CEILINGS WITHIN THE GRAY HATCHED AREA IN BUILDING "L" MAIN & LOWER LEVELS. WHERE CEILINGS ARE NOT BEING REPLACED, EACH CONTRACTOR SHALL REMOVE & REINSTALL CEILING SYSTEM AS REQUIRED TO PERFORM WORK OF THEIR CONTRACT, UNO. VIF EXISTING CEILING SYSTEMS WHERE ACCESS IS REQUIRED.

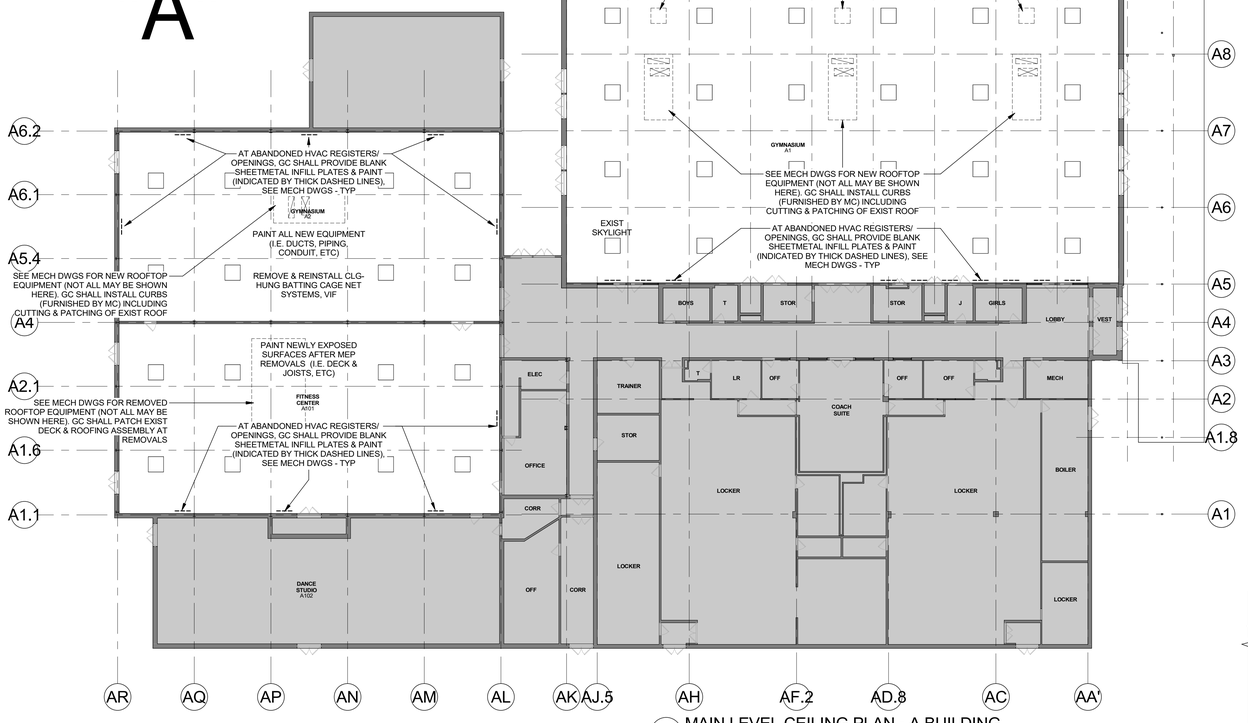
L2 MAIN LEVEL CEILING PLAN - L BUILDING
1/16" = 1'-0"

"L"

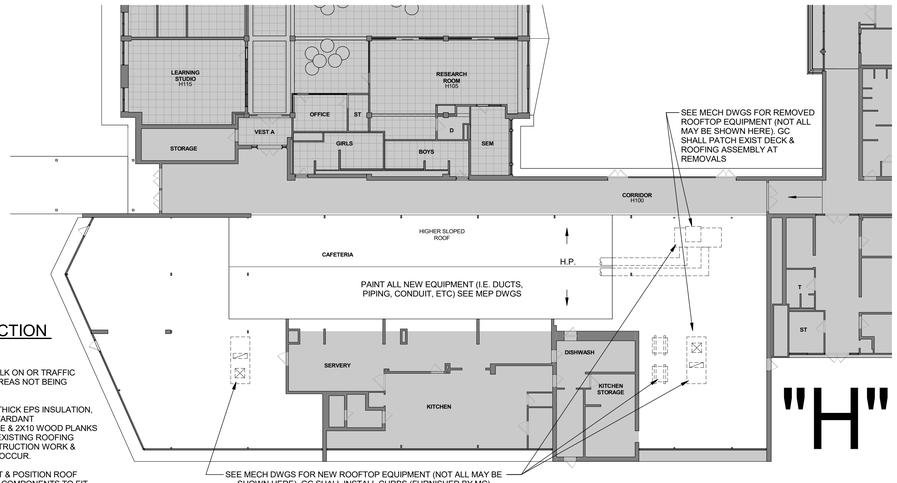


L1 LOWER LEVEL CEILING PLAN - L BUILDING
1/16" = 1'-0"

"A"



A MAIN LEVEL CEILING PLAN - A BUILDING
1/16" = 1'-0"



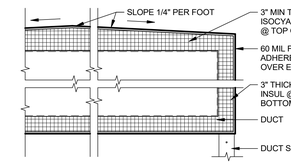
ROOF PROTECTION NOTES

1. DO NOT WALK ON OR TRAFFIC OVER ROOF AREAS NOT BEING REROOFED.
2. INSTALL 1" THICK EPS INSULATION, 6 MIL FIRE RETARDANT POLYETHYLENE & 2X10 WOOD PLANKS TO PROTECT EXISTING ROOFING WHERE CONSTRUCTION WORK & TRAFFIC WILL OCCUR.
3. NEATLY CUT & POSITION ROOF PENETRATION COMPONENTS TO FIT WITHIN 1/2" OF ROOF PENETRATIONS.

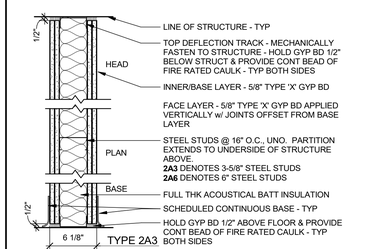
H MAIN LEVEL CEILING PLAN - H BUILDING
1/16" = 1'-0"

ROOF NOTES

1. PROVIDE TAPERED ISOCYANURATE CRICKET AT NEW EQUIPMENT CURBS - SLOPE 1/2" PER FOOT.
2. PROVIDE 1/2" THICK COVER BOARD OVER ALL NEW ISOCYANURATE INSULATION.
3. DIMENSIONS AND CONDITIONS SHOWN IN THE DETAILS ARE APPROXIMATE AND MUST BE CONFIRMED BY THE CONTRACTOR. ONLY CERTAIN FASTENERS ARE SHOWN ON THE DRAWINGS, REFER TO THE SPECIFICATIONS & MANUFACTURER'S RECOMMENDATIONS FOR ADDITIONAL FASTENER REQUIREMENTS.
4. TEST THE DRAIN LINES WITH A RUNNING HOSE FOR AT LEAST ONE HOUR PRIOR TO STARTING WORK. PROVIDE A WRITTEN REPORT OF ANY CLOGGED LINES TO THE ARCHITECT & OWNER. CLOGGED DRAIN LINES WILL BE CLEANED BY THE OWNER. COVER & PROTECT ALL DRAIN OPENINGS AT THE BEGINNING OF EACH WORK DAY. REMOVE THE COVERS AT THE END OF EACH DAY & BEFORE PRECIPITATION OCCURS. PERFORM WHATEVER WORK IS REQUIRED TO RESTORE THE DRAIN LINES TO CLEAN, CLEAR, FREE FLOWING CONDITION AT THE COMPLETION OF THE PROJECT.



4 DUCT WATERPROOFING
1 1/2" = 1'-0"

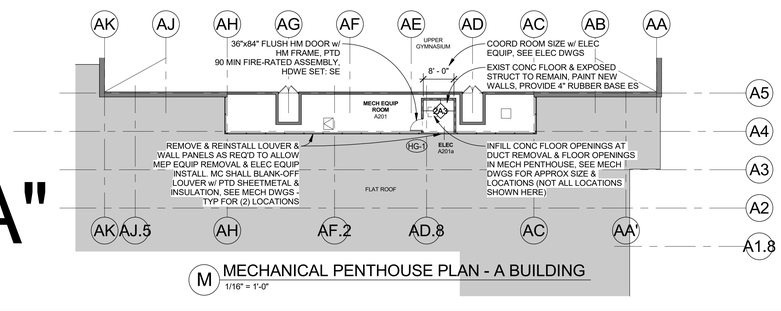


2A 2 hr FIRE RESISTIVE - UL #U419

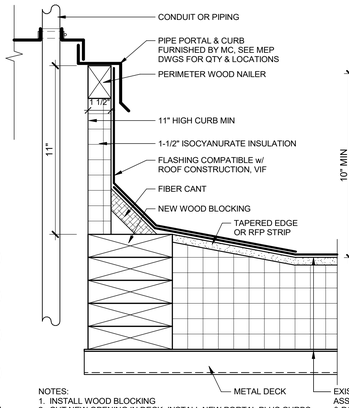
DESIGN STC = 59
FIELD STC = 55 (MIN)

NOTE: ASSEMBLE PER UL FIRE RESISTANCE REQUIREMENTS

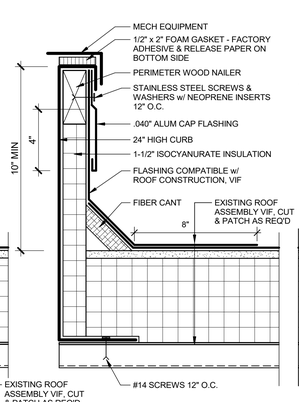
"A"



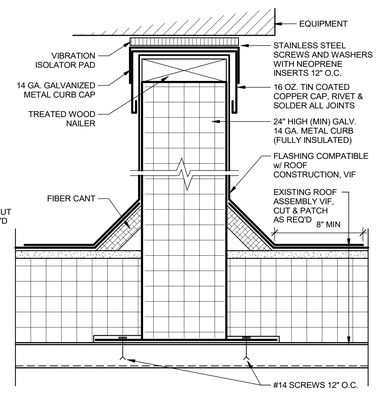
M MECHANICAL PENTHOUSE PLAN - A BUILDING
1/16" = 1'-0"



3 PIPE PORTAL PLUS CURB
3" = 1'-0"



2 TYPICAL EQUIPMENT CURB
3" = 1'-0"



1 TYPICAL RAIL SUPPORT CURB
3" = 1'-0"

NOTES:
1. INSTALL WOOD BLOCKING
2. CUT NEW OPENING IN DECK. INSTALL NEW PORTAL PLUS CURBS.

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

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285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
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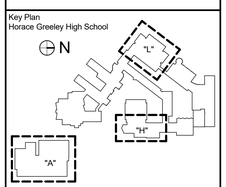
CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

GENERAL NOTES

1. DENOTES AREA OF NO MAJOR ARCHITECTURAL RENOVATION WORK, SPECIFIC WORK MAY BE SHOWN ELSEWHERE, REFER TO MEP DWGS
   NOTE THAT MEP DWGS SHOW EXTENSIVE ACCESS REQUIRED ABOVE CEILINGS WITHIN THE GRAY HATCHED AREA. WHERE CEILINGS ARE NOT BEING REPLACED, EACH CONTRACTOR SHALL REMOVE & REINSTALL CEILING SYSTEM AS REQUIRED TO PERFORM WORK OF THEIR CONTRACT, UNO.
2. DENOTES EXISTING WALL TO REMAIN
3. DENOTES 1hr OR NON-RATED WALL
4. ALL CORRIDOR WALLS ARE TO HAVE AT LEAST A 1hr FIRE RATING (EVEN IF NOT LABELED)
5. DIMENSIONS SHOWN FOR INTERIOR WALLS ARE: 'FACE OF GWB' OR 'FACE OF CMU'
6. 2x2 ACT AS SCHEDULED

Key Plan
Horace Greeley High School



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Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID

Sheet Title

HORACE GREELEY HIGH SCHOOL PLANS & DETAILS

Job No. 2023-1028	Sheet Number A101-HG
Date 10/07/2024	
Scale AS NOTED	
Drawn / Checked - / -	

GENERAL REMOVAL NOTES

1. THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED MECHANICAL DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMMODATE NEW WORK.
2. DEVICES SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.
3. EQUIPMENT, PIPING, ETC., REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE NEW SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS, NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.
4. ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
5. REMOVE OR RELOCATE ALL DEVICES LOCATED ON THE EXTERIOR OF THE BUILDING OR ON THE INTERIOR OF EXTERIOR WALLS AS REQUIRED TO ACCOMMODATE A NEW BUILDING ADDITION OR TO ALLOW THE ADDITION OF DOORWAYS INTO THE NEW ADDITION.
6. REMOVALS SHALL BE COORDINATED WITH OTHER TRADES AFFECTED.
7. REMOVAL OF ANY PIECE OF EQUIPMENT OR TERMINAL DEVICE SHALL INCLUDE REMOVAL OF CONNECTING DUCTWORK AND PIPING BACK TO EXISTING MAINS THAT REMAIN. CAP EACH BRANCH AIR/WATER-TIGHT. CONTROLS AND CONTROL COMPONENTS SHALL ALSO BE REMOVED. DO NOT LEAVE COMPONENTS (CONTROLLERS, PNEUMATICS, ETC.) THAT HAVE NO FUNCTION. PROVIDE CONTROL WIRING, DUCTWORK, PIPING, ETC. AS NECESSARY TO MAINTAIN CONTINUITY OF SERVICE FOR EQUIPMENT OR TERMINAL DEVICES TO REMAIN.
8. ALL PIPING TO BE REMOVED SHALL BE PROPERLY PLUGGED OR CAPPED BENEATH FINISHED SURFACES, SO THAT UPON COMPLETION OF ALL NEW WORK, ALL ABANDONED PIPING SHALL BE CONCEALED IN FINISHED AREAS.
9. NO DEAD ENDS SHALL BE LEFT ON ANY PIPING UPON COMPLETION OF JOB. BRANCHES SHALL BE CUT AND CAPPED AT MAINS. THE EXISTING SYSTEM SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF NEW WORK.
10. CHIMNEY INSPECTION AND SOOT REMOVAL: ON PROJECTS INCLUDING BOILER REMOVAL OR REPLACEMENT, CONTRACTOR SHALL GATHER TOGETHER WITH A VACUUM-CLEANING MACHINE ALL ACCUMULATIONS OF SOOT. HE SHALL REMOVE ALL SOOT FROM THE BASE OF THE CHIMNEY. THE CHIMNEY SHALL BE INSPECTED AND ANY DEFICIENCIES NOTED IN A WRITTEN REPORT.

ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ATC	AUTOMATIC TEMPERATURE CONTROL TRADE CONTRACTOR
ATC	AUTOMATIC TEMPERATURE CONTROL SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM (ATC)
BR	BOTTOM WALL REGISTER
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CR	CEILING REGISTER
CO	CLEAN OUT (DOOR)
CV	MOTORIZED CONTROL VALVE
EC	ELECTRICAL CONTRACTOR
EMS	ENERGY MANAGEMENT SYSTEM (ATC)
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FSC	FULL SIZE CONNECTION
FSD	FIRE/SMOKE DAMPER
GC	GENERAL TRADES CONTRACTOR
HVAC	HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR
MFR	MANUFACTURER
MD	MOTORIZED DAMPER
OAI/FAI	OUTSIDE (FRESH) AIR INTAKE
PFRE	PRE-FINISHED SHEET METAL ENCLOSURE
PL	PLUMBING CONTRACTOR
SMRE	SHEET METAL RISER ENCLOSURE (PRE-FINISHED)
TD	TRANSFER DUCT
TR	TOP WALL REGISTER
WMG	1/2" SQ. WIRE MESH GRILLE
VIF	VERIFY IN FIELD
VFD	VARIABLE FREQUENCY DRIVE

GENERAL NOTES

1. BEFORE SUBMITTING A PROPOSAL, BIDDERS SHALL EXAMINE ALL CONDITIONS RELATED TO THIS WORK AND SHALL BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATION TO THE OTHER WORK IN THE BUILDING.
2. BEFORE COMMENCING WORK, THE CONTRACTOR WILL EXAMINE ALL CONDITIONS OF THE PROJECT UPON WHICH HIS WORK IS IN ANY WAY DEPENDENT FOR PERFECT WORKMANSHIP ACCORDING TO THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. NO "WAIVER OF RESPONSIBILITY" FOR INCOMPLETE, INADEQUATE OR DEFECTIVE ADJOINING WORK WILL BE CONSIDERED UNLESS NOTICE HAS BEEN FILED BY THIS CONTRACTOR AND ACCEDED TO BY THE OWNER'S REPRESENTATIVE IN WRITING BEFORE THE CONTRACTOR BEGINS ANY PART OF THE WORK.
3. THE CONTRACTOR WILL PAY FOR ALL LICENSES, PERMITS AND INSPECTION FEES REQUIRED BY CIVIL AUTHORITIES HAVING JURISDICTION. COMPLY WITH ALL LAWS, ORDINANCES, REGULATIONS, AND FIRE UNDERWRITER'S REQUIREMENTS APPLICABLE TO WORK HEREIN SPECIFIED WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
4. SMALL SCALE DRILLING THROUGH WALLS AND FLOORS OR CUTTING OF PIPING INSULATION WHICH MAY CONTAIN ASBESTOS SHALL BE PERFORMED BY A PERSON WITH A "RESTRICTED ASBESTOS HANDLER ALLIED TRADES CERTIFICATE" AND SHALL HAVE A COPY OF IT IN HIS POSSESSION AT ALL TIMES WHILE WORKING OF THE PROJECT. THIS SHALL ALSO APPLY TO REMOVAL OF PIPING, DUCTWORK OR EQUIPMENT INSULATION.
5. IT IS SPECIFICALLY INTENDED THAT ANYTHING (WHETHER MATERIAL OR LABOR), WHICH IS USUALLY FURNISHED AS A PART OF SUCH EQUIPMENT, AS IS HEREINAFTER CALLED FOR (AND WHICH IS NECESSARY FOR THE COMPLETION AND PROPER OPERATION) SHALL BE FURNISHED AS PART OF THIS CONTRACT WITHOUT ADDITIONAL COST THE OWNER, WHETHER OR NOT SHOWN IN DETAIL OR DESCRIBED IN THE SPECIFICATIONS.
6. WHEN DRAWINGS AND SPECIFICATIONS CONFLICT OR THERE IS A QUESTION AS TO THE PROPER INTENT OF THIS CONTRACT, THE CONTRACTOR SHALL ASSUME THE GREATER QUANTITY, THE HIGHER QUALITY AND/OR THE MORE EXPENSIVE METHOD IN HIS PRICING. ALL QUESTIONS SHALL BE DIRECTED TO THE ARCHITECT/ENGINEER IN WRITING ONLY AND ONLY UP TO TEN (10) DAYS PRIOR TO BIDDING.
7. THE DRAWINGS INDICATE THE GENERAL RUNS OF THE PIPING, DUCTWORK, ETC. SYSTEMS AND THE LOCATION OF EQUIPMENT AND APPARATUS, HOWEVER IT SHALL BE UNDERSTOOD THAT THE RIGHT IS RESERVED BY THE ARCHITECT/ENGINEER TO CHANGE THE LOCATION OF PIPING, DUCTWORK, EQUIPMENT AND APPARATUS TO A REASONABLE EXTENT AS BUILDING CONDITIONS MAY DICTATE, PRIOR TO THEIR INSTALLATION WITHOUT EXTRA COST TO THE OWNER.
8. ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS. THE CONTRACTOR SHALL ACCOUNT FOR ANY LINING IN SIZING OF SHEET METAL.
9. ALL COMPONENTS SUPPLIED BY THIS CONTRACTOR SHALL BE UL LISTED AND/OR ETL LABELED AND SHALL CONFORM TO ASHRAE STANDARD 15.
10. ANY CHANGES FROM THE DRAWINGS AND SPECIFICATIONS AND ANY INTERPRETATION THEREOF SHALL HAVE THE PRIOR APPROVAL OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL SUBMIT IN WRITING, AT THE TIME OF SIGNING THE CONTRACT, ANY ITEMS OF NECESSARY LABOR AND MATERIALS, WHICH, IN HIS OPINION, ARE LACKING IN REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS TO INSURE A COMPLETE JOB IN ALL RESPECTS. NO CONSIDERATION WILL BE GRANTED TO ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED, WORK TO BE DONE, OR CONDITIONS TO BE COMPLIED WITH, IT BEING UNDERSTOOD THAT THE TENDER OF A PROPOSAL CARRIES WITH IT THE AGREEMENT TO ALL ITEMS AND CONDITIONS REFERRED TO HEREIN, OR INDICATED ON THE ACCOMPANYING DRAWINGS.
11. FURNISH ALL COMBINATION MOTOR STARTER/DISCONNECTS FOR EQUIPMENT (WITH THE EXCEPTION OF STARTERS AND ELECTRIC ITEMS ALREADY MOUNTED ON EQUIPMENT OR EQUIPMENT NOT REQUIRING SAME). FAN MOTOR STARTER/DISCONNECTS SHALL HAVE CONTACTS FOR ATC CONNECTION AND A TERMINAL BLOCK CONNECTION FOR FIRE ALARM FAN SHUTDOWN. STARTERS PER MANUFACTURERS RECOMMENDATIONS. UNDERWRITERS INSPECTION AND CERTIFICATE REQUIRED. COORDINATE WITH ELECTRICAL CONTRACTOR.
12. THIS CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PROVIDING ELECTRIC, GAS, WATER, ETC. CONNECTIONS TO SYSTEMS OR EQUIPMENT THAT ARE PART OF THIS CONTRACT. PROVIDE EQUIPMENT CUTS AND EXACT LOCATIONS, INCLUDING ORIENTATION, OF ALL SYSTEMS AND EQUIPMENT REQUIRING SUCH CONNECTIONS. THIS SHALL BE DONE WELL IN ADVANCE OF THOSE TRADES INSTALLING THEIR CONNECTION WORK.
13. COORDINATION DRAWINGS (IF APPLICABLE): ATTENTION IS DIRECTED TO DIVISION 1 FOR COORDINATION DRAWING REQUIREMENTS FOR THIS PROJECT. THESE DRAWINGS ARE CRITICAL TO THE PROPER EXECUTION OF THE WORK AND FAILURE TO HONOR THESE REQUIREMENTS MAY BECOME THE BASIS FOR DENIAL OF ANY AND ALL CLAIMS FOR EITHER OR BOTH "TIME" AND "MONEY".
14. LOCATION AND SIZES OF EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC. ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING WORK SHALL BE VERIFIED ON THE JOB.
15. BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS.
16. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
17. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED ITEMS.
18. OPENINGS AROUND PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
19. PREPARE 'AS-BUILT' DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.

HVAC LEGEND

- EXISTING DUCTWORK, EQUIPMENT, ETC. TO REMAIN
- EXISTING DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED
- POINT OF CHANGE IN DUCT SIZE; NEW DUCTWORK; 1" THERMAL ACOUSTIC LINING-DUCT SIZES ON PLANS ARE CLEAR INSIDE DIMENSIONS
- FLEXIBLE CONNECTION; NEW DUCTWORK; POINT OF CHANGE IN DUCT SIZE
- SQUARE DUCT TURN WITH TURNING VANES
- EXISTING CEILING DIFFUSER
- EXISTING CEILING REGISTER
- TYPE -SEE SCHEDULE; NEW 4-WAY CEILING DIFFUSER; CFM
- TYPE -SEE SCHEDULE; NEW 3-WAY CEILING DIFFUSER; CFM
- TYPE -SEE SCHEDULE; NEW 2-WAY CEILING DIFFUSER; CFM
- TYPE -SEE SCHEDULE; CEILING EXHAUST/RETURN REGISTER; CFM
- TYPE/SIZE-SEE SCHEDULE; REGISTER/DIFFUSER IDENTIFICATION; CFM
- DUCT MTD. MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE)
- MOTORIZED AIR VOLUME DAMPER (W/ACCESS DOOR)
- FSD A #2; FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR
- FSD A #2; FIRE/SMOKE DAMPER (U.L. APPROVED) & ACCESS DOOR
- EHWS — HOT WATER HEATING SUPPLY PIPING
- EHWR — HOT WATER RETURN PIPING
- HWS — HOT WATER HEATING SUPPLY PIPING
- HWR — HOT WATER RETURN RETURN PIPING
- ELPS — EXISTING LOW PRESSURE STEAM PIPING
- ECR — EXISTING CONDENSATE RETURN PIPING
- EST — EXISTING STORM PIPING
- L — LIQUID REFRIGERANT PIPING
- S — SUCTION REFRIGERANT PIPING
- HG — HOT GAS REFRIGERANT PIPING
- CD — CONDENSATE DRAIN PIPING
- FLOW DIRECTION WITHIN PIPE; CONNECTION TO EQUIPMENT ABOVE
- GATE VALVE (HORIZONTAL/VERTICAL)
- COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)
- 2 - WAY CONTROL VALVE
- CHECK VALVES
- PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)
- ERU #; ENERGY RECOVERY UNIT IDENTIFICATION
- OUH #; OUTDOOR VRF HEAT PUMP UNIT IDENTIFICATION
- FC #; INDOOR VRF FAN COIL UNIT IDENTIFICATION
- DXC #; DIRECT EXPANSION REFRIGERANT COIL IDENTIFICATION
- HWC #; HOT WATER COIL IDENTIFICATION
- SHC #; STEAM HEATING COIL IDENTIFICATION
- DOAC #; DEDICATED OUTDOOR AIR SYSTEM IDENTIFICATION
- RTU #; ROOFTOP UNIT IDENTIFICATION
- CU #; CONDENSING UNIT IDENTIFICATION
- DXC #; DIRECT EXPANSION REFRIGERANT COIL IDENTIFICATION
- CP #; CONDENSATE PUMP IDENTIFICATION
- VFS #; VRF FLOW SELECTOR IDENTIFICATION
- EF #; EXHAUST FAN IDENTIFICATION
- AHU #; AIR HANDLING UNIT IDENTIFICATION
- MZ #; MULTIZONE UNIT IDENTIFICATION
- HV #; HEATING AND VENTILATION UNIT IDENTIFICATION
- EUH #; ELECTRIC UNIT HEATER IDENTIFICATION
- EAHU #(YEAR); EXISTING AIR HANDLING UNIT IDENTIFICATION
- EERU #(YEAR); EXISTING ENERGY RECOVERY UNIT IDENTIFICATION
- EAC #(YEAR); EXISTING AIR CONDITIONING UNIT IDENTIFICATION
- EFCU #(YEAR); EXISTING FAN COIL UNIT IDENTIFICATION
- EFC #(YEAR); EXISTING INDOOR VRF FAN COIL UNIT IDENTIFICATION
- EEF #(YEAR); EXISTING EXHAUST FAN IDENTIFICATION
- ECU #(YEAR); EXISTING CONDENSING UNIT IDENTIFICATION
- EMAU #(YEAR); EXISTING MAKEUP AIR UNIT IDENTIFICATION
- ESF #(YEAR); EXISTING SUPPLY FAN IDENTIFICATION
- ERF #(YEAR); EXISTING RETURN FAN IDENTIFICATION
- EEF #(YEAR); EXISTING EXHAUST FAN IDENTIFICATION
- EHX #(YEAR); EXISTING HEAT EXCHANGER IDENTIFICATION
- EHWP #(YEAR); EXISTING HOT WATER PUMP IDENTIFICATION
- EVUH #(YEAR); EXISTING VERTICAL UNIT HEATER IDENTIFICATION
- EHV #(YEAR); EXISTING HEATING AND VENTILATION UNIT IDENTIFICATION
- EMZ #(YEAR); EXISTING MULTIZONE UNIT IDENTIFICATION
- ECONV #(YEAR); EXISTING CONVENCTOR IDENTIFICATION
- ERAD #(YEAR); EXISTING RADIATOR IDENTIFICATION
- EUH #(YEAR); EXISTING UNIT HEATER IDENTIFICATION
- ETF #(YEAR); EXISTING TRANSFER FAN IDENTIFICATION
- FT-#; TYP. NEW FIN TUBE RADIATION IDENTIFICATION; ELEMENT LENGTH
- FT #(YEAR); TYP. EXISTING FIN TUBE RADIATION IDENTIFICATION
- TS; TO CONTROLLED ITEM; WALL MTD.(5'-2"±.A.F.F.-U.O.N.) TEMPERATURE SENSOR
- TD; TO CONTROLLED ITEM; WALL MTD.(5'-2"±.A.F.F.-U.O.N.) REVERSE ACTING THERMOSTAT
- TE; EXISTING WALL MTD. TEMPERATURE SENSOR
- CO2; WALL MTD. CARBON DIOXIDE SENSOR
- DOOR UNDERCUT
- POINT OF DISCONNECTION
- POINT OF CONNECTION, NEW TO EXISTING
- SECTION/DETAIL/ELEVATION/PART PLAN NUMBER; DRAWING NUMBER; SECTION/ELEVATION IDENTIFICATION

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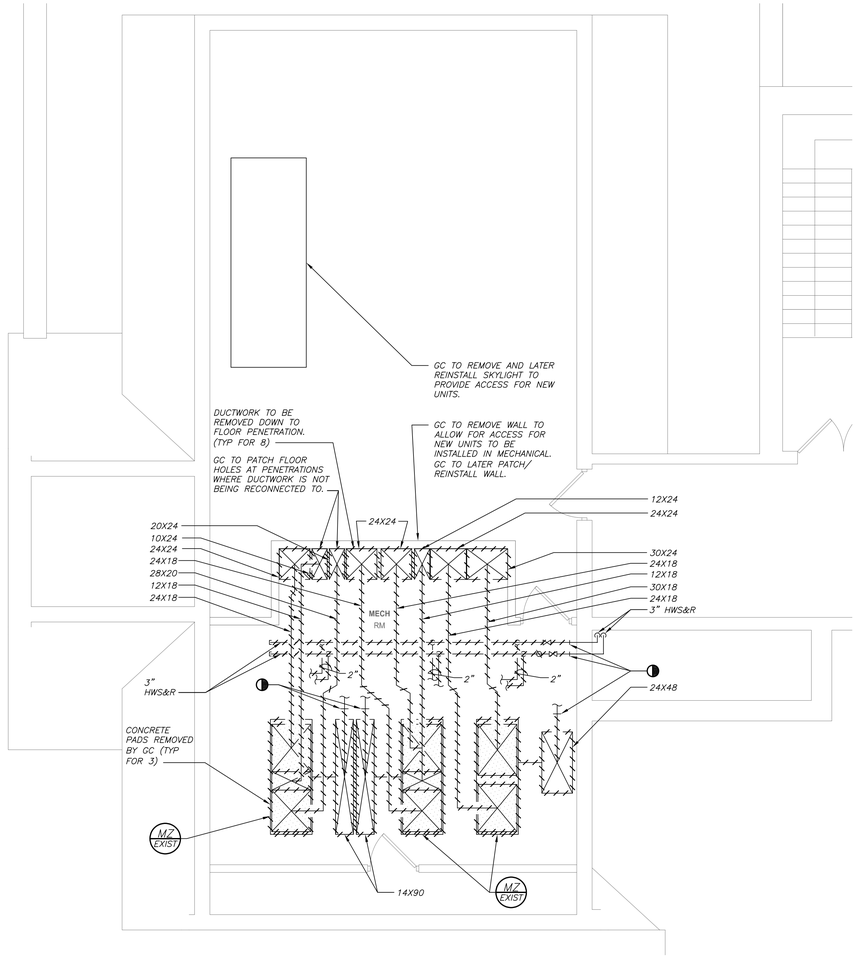
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No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

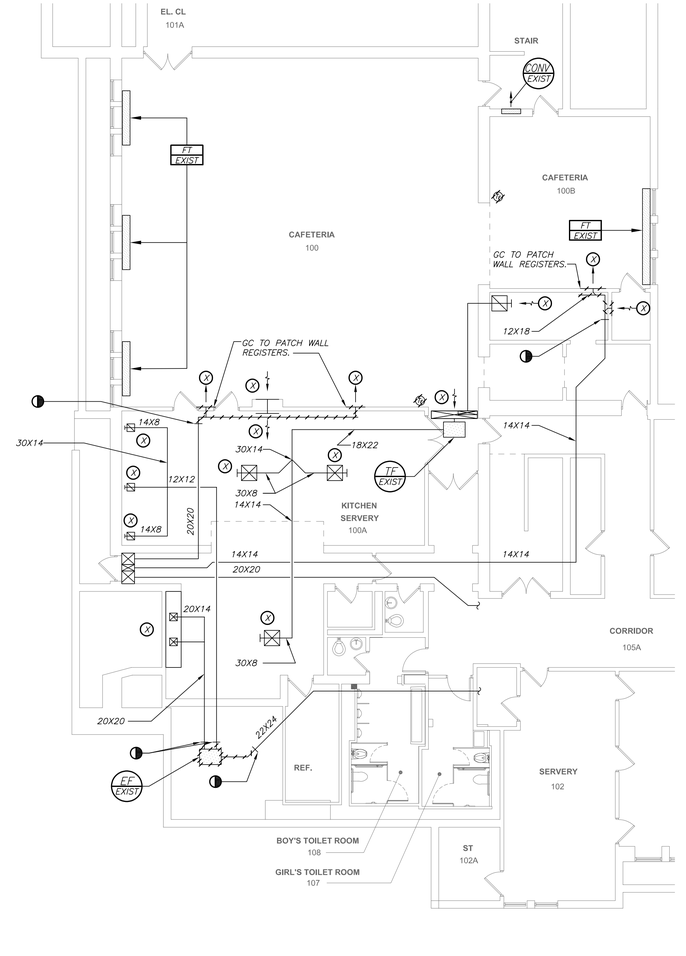
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LEGEND, NOTES,
& ABBREVIATIONS

Job No. 2023-1028	Sheet Number H001
Date 10/01/2024	
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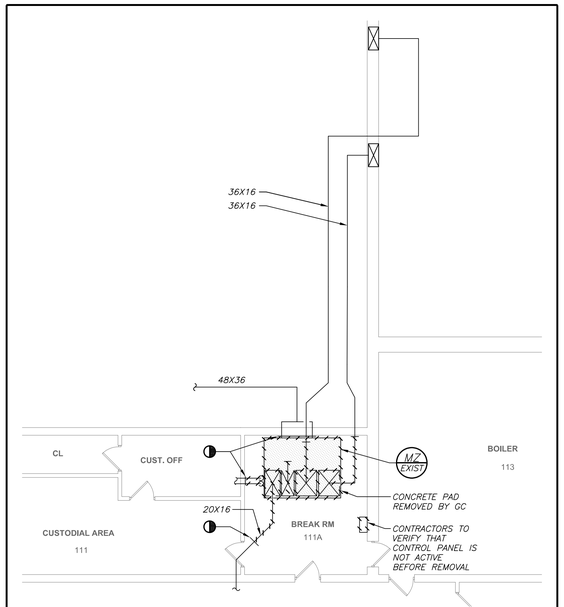


PART ATTIC PLAN (REMOVALS) 3 H101 — 0, 4', 8' — 1/4 inch=1 foot



PART FIRST FLOOR PLAN (REMOVALS) 1 H101 — 0, 8', 16' — 1/8 inch=1 foot

IN ALL AREAS WHERE CEILINGS ARE NOT BEING REPLACED, REMOVE TILES AND GRID AS REQUIRED TO PERFORM WORK AND REINSTALL FOR "AS NEW" CONDITION.
CLEAN ALL EXISTING DIFFUSERS/REGISTERS TO REMAIN.



PART FIRST FLOOR PLAN (REMOVALS) 2 H101 — 0, 8', 16' — 1/8 inch=1 foot

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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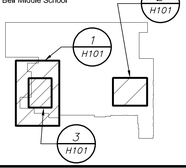
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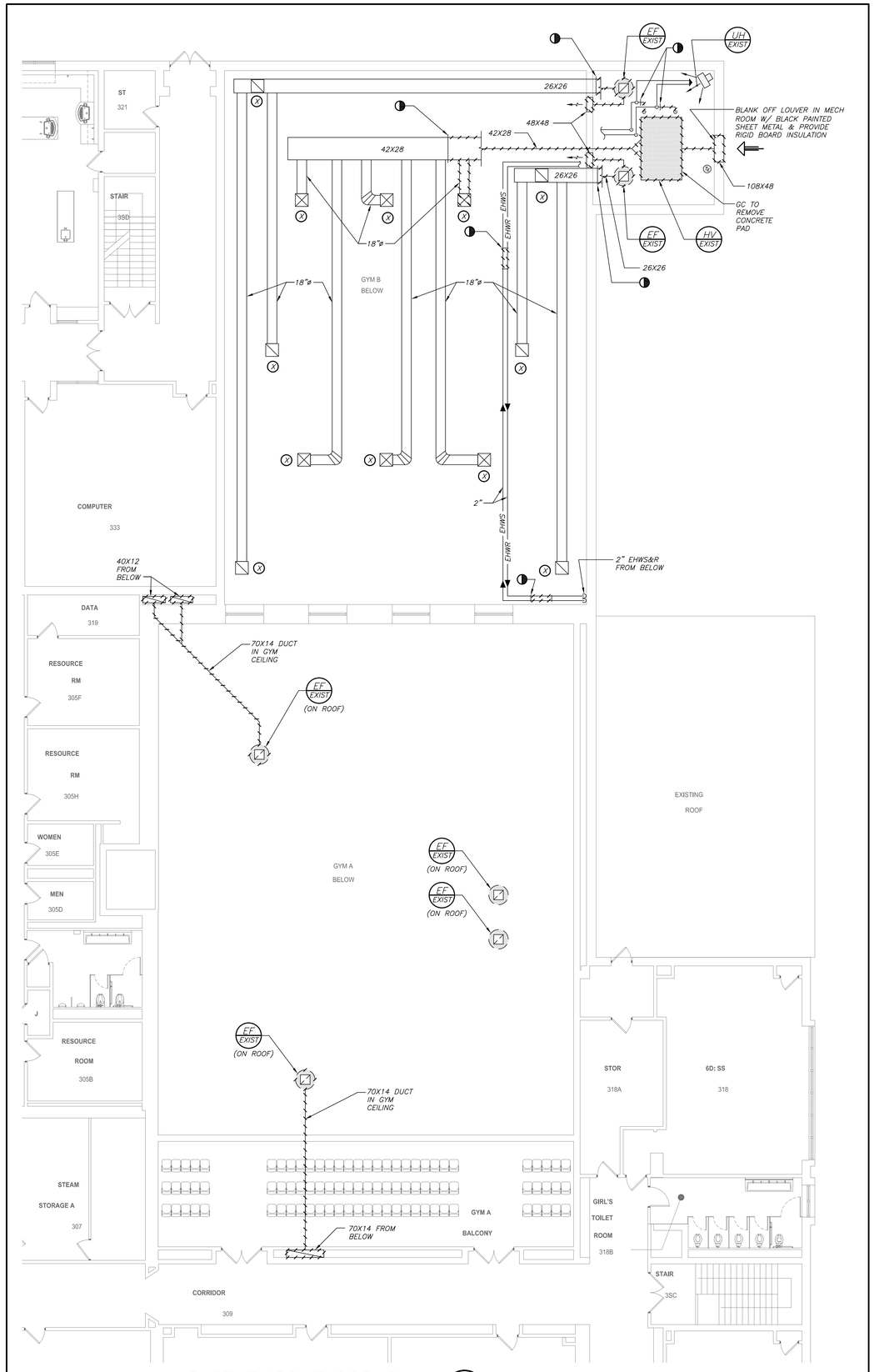
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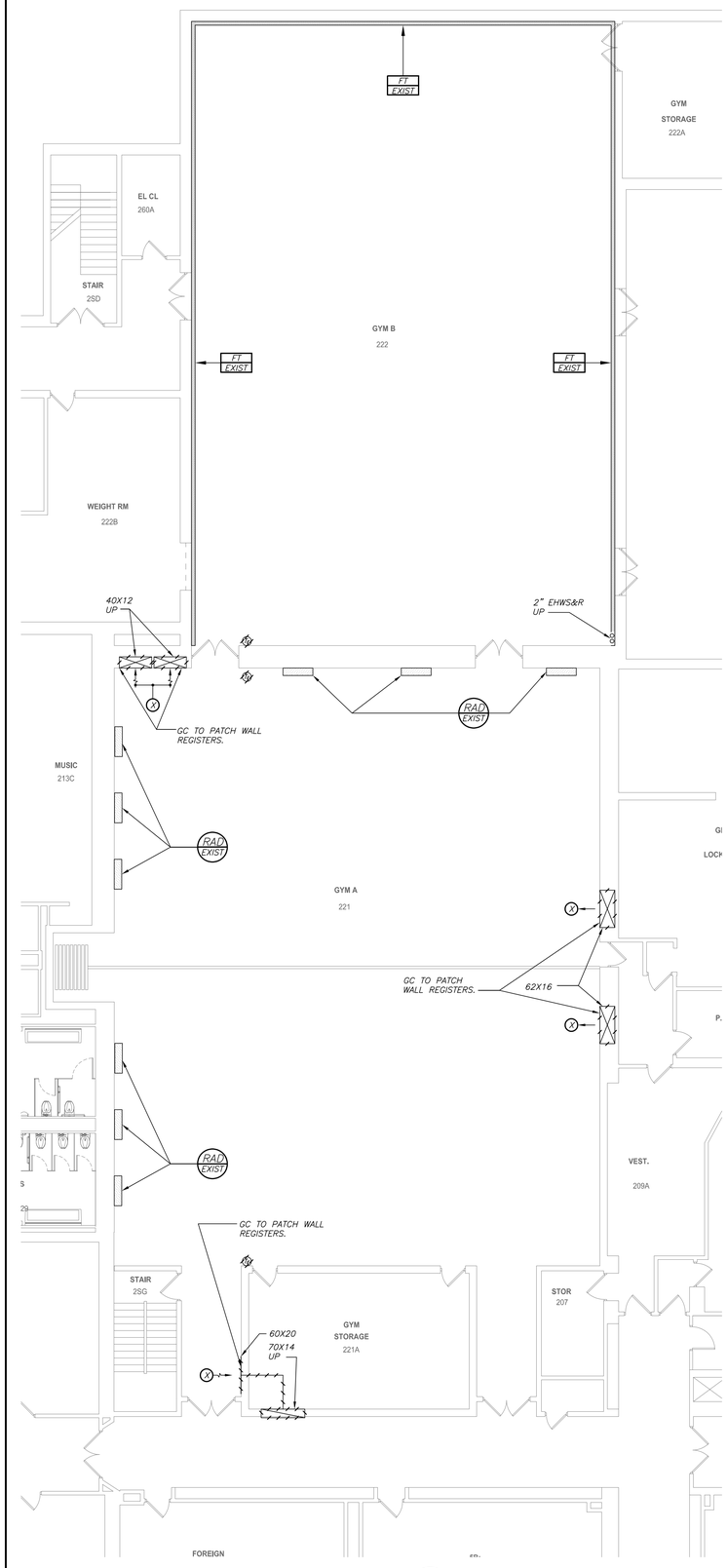
ROBERT E. BELL PART FIRST FLOOR AND ATTIC PLANS

Job No. 2023-1028
Date 10/01/2024
Scale AS NOTED
Drawn / Checked BGA/BGA
Sheet Number H101-BE

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CLEAN ALL EXISTING DIFFUSERS/REGISTERS TO REMAIN.



PART THIRD FLOOR PLAN (REMOVALS) 2/H102 — 1/8 inch=1 foot



PART SECOND FLOOR PLAN (REMOVALS) 1/H102 — 1/8 inch=1 foot

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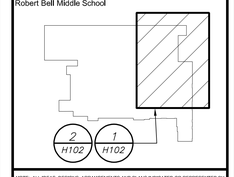
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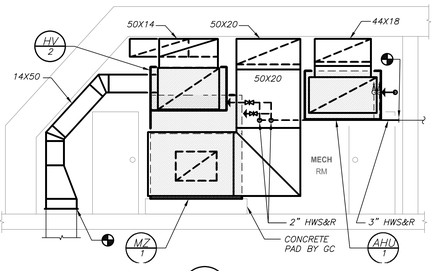
Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

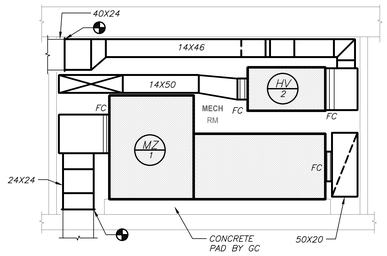
Sheet Title

ROBERT E. BELL PART SECOND AND THIRD FLOOR PLANS

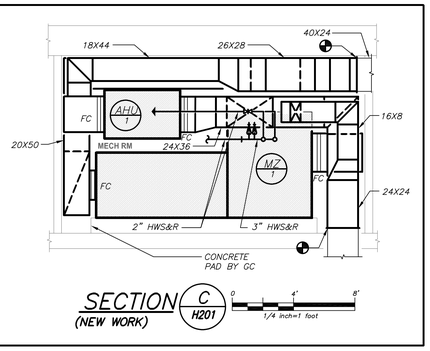
Job No. 2023-1028	Sheet Number H102-BE
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



SECTION A / H201 (NEW WORK) 0 4' 8' 1/4 inch=1 foot



SECTION B / H201 (NEW WORK) 0 4' 8' 1/4 inch=1 foot

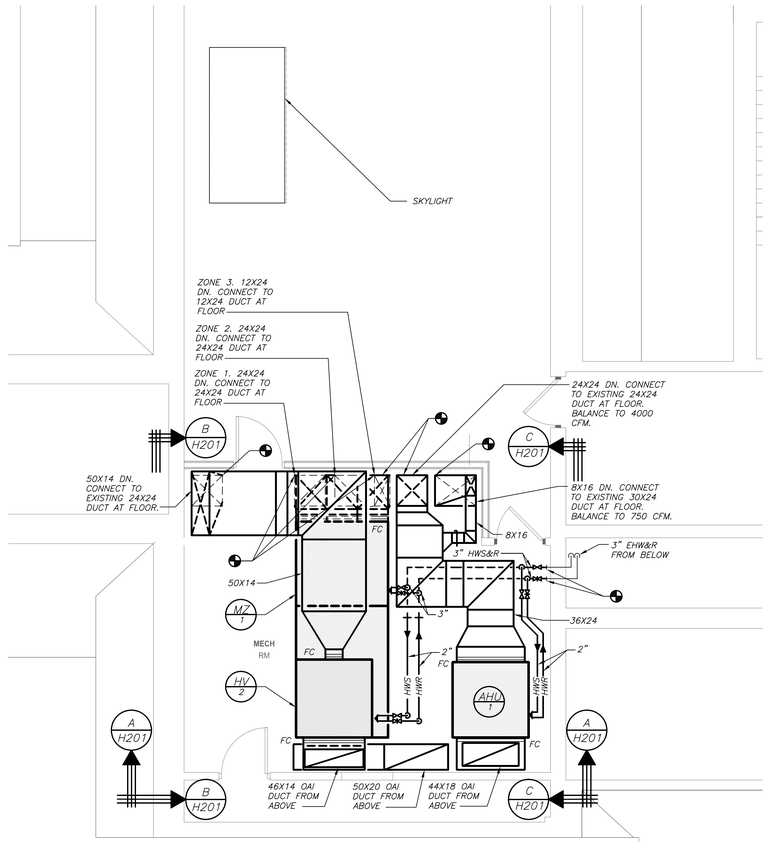


SECTION C / H201 (NEW WORK) 0 4' 8' 1/4 inch=1 foot

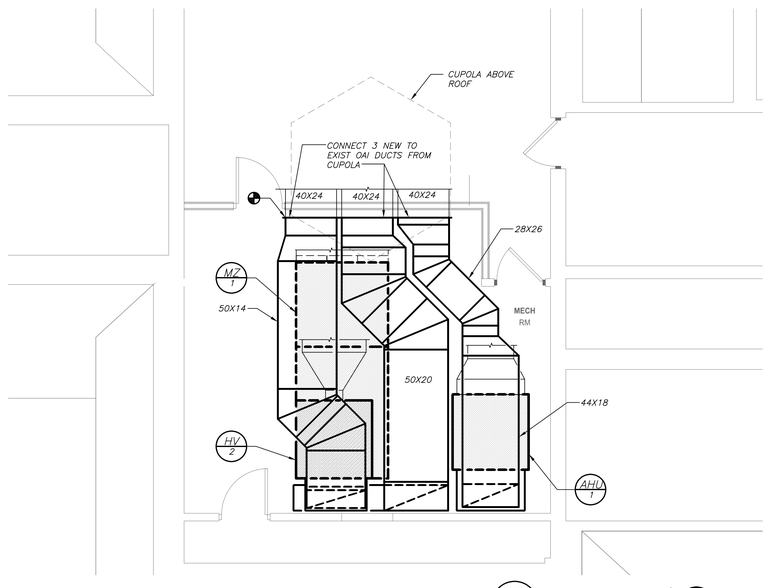
VRF SYSTEM:
THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR A COMPLETE AND OPERABLE SYSTEM.

CONDENSATE DRAIN SYSTEM:
THE CONTRACTOR SHALL PROVIDE CONDENSATE PIPING FROM EACH RESPECTIVE INDOOR EVAPORATOR UNIT, COIL, AIR HANDLER, FC, ERU, DOAS, AND RTU TO THE NEAREST FLOOR DRAIN, JANITOR'S SINK, INDIRECT WASTE, OR ROOF DRAIN, FOR A COMPLETER AND OPERABLE SYSTEM. CONDENSATE DRAIN PIPING SHALL BE A MINIMUM 1" ROUND.

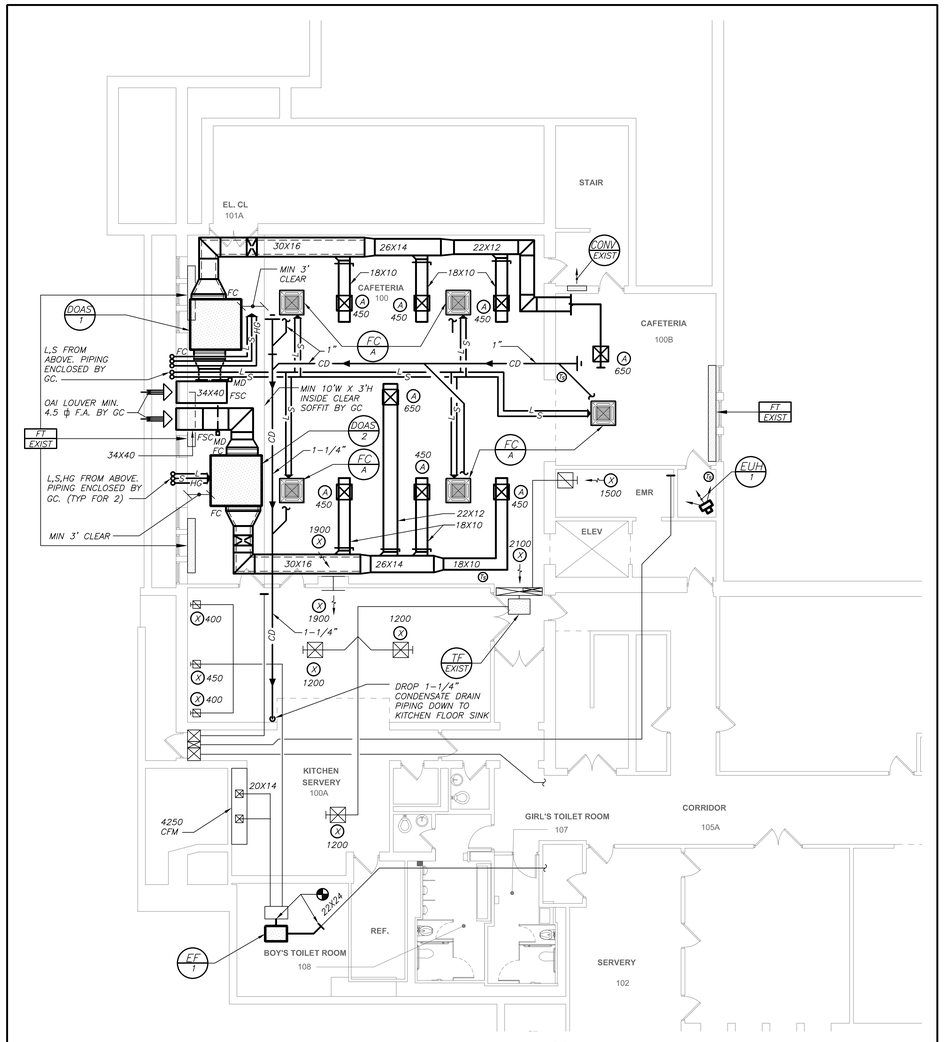
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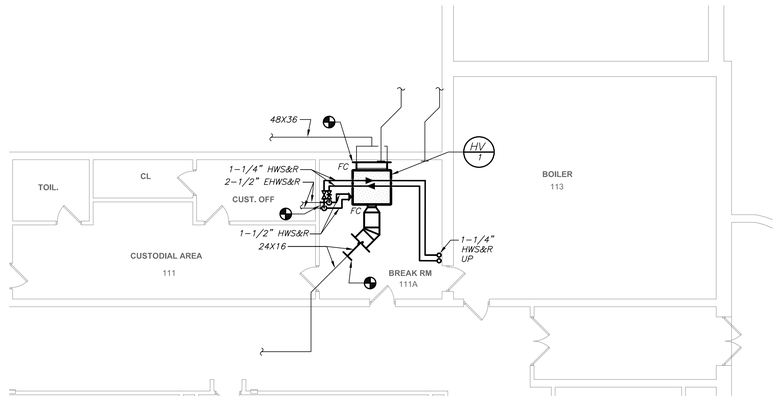
PART ATTIC LOWER DUCTWORK PLAN 3 / H201 (NEW WORK) 0 4' 8' 1/4 inch=1 foot N



PART ATTIC UPPER DUCTWORK PLAN 4 / H201 (NEW WORK) 0 4' 8' 1/4 inch=1 foot N



PART FIRST FLOOR PLAN 1 / H201 (NEW WORK) 0 8' 16' 1/8 inch=1 foot N



PART FIRST FLOOR PLAN 2 / H201 (NEW WORK) 0 8' 16' 1/8 inch=1 foot N

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

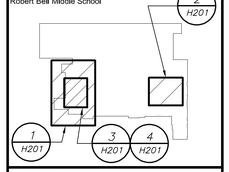
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CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

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Key Plan
Robert Bell Middle School



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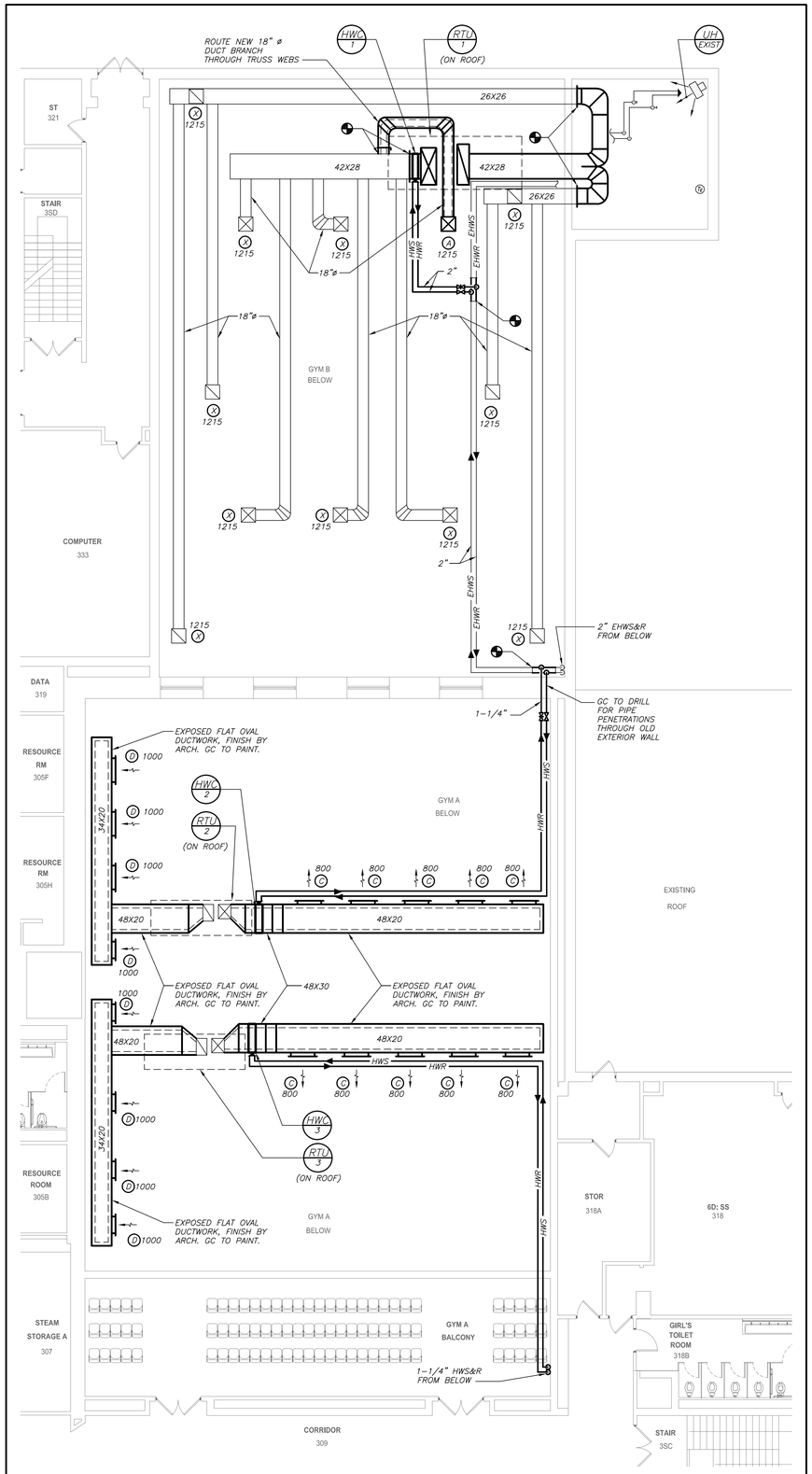
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1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

ROBERT E. BELL PART FIRST FLOOR AND ATTIC PLANS

Job No. 2023-1028	Sheet Number H201-BE
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

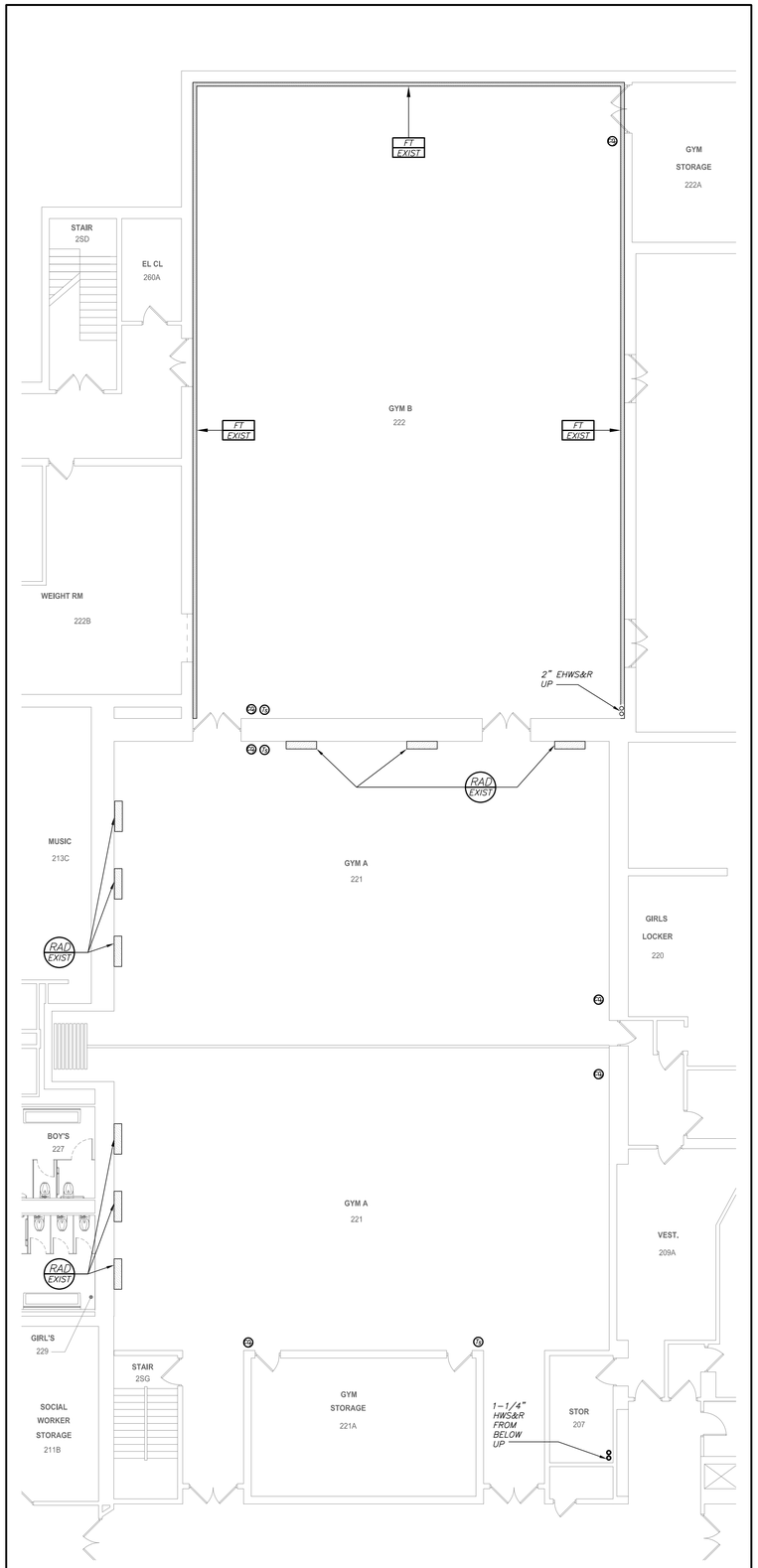


PART THIRD FLOOR PLAN (NEW WORK)

2 / H202

0 8' 16'

1/8 inch=1 foot



PART SECOND FLOOR PLAN (NEW WORK)

1 / H202

0 8' 16'

1/8 inch=1 foot

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DISTRICT-WIDE CAPITAL IMPROVEMENTS

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CHAPPAQUA CENTRAL SCHOOL DISTRICT
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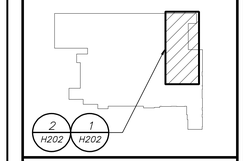
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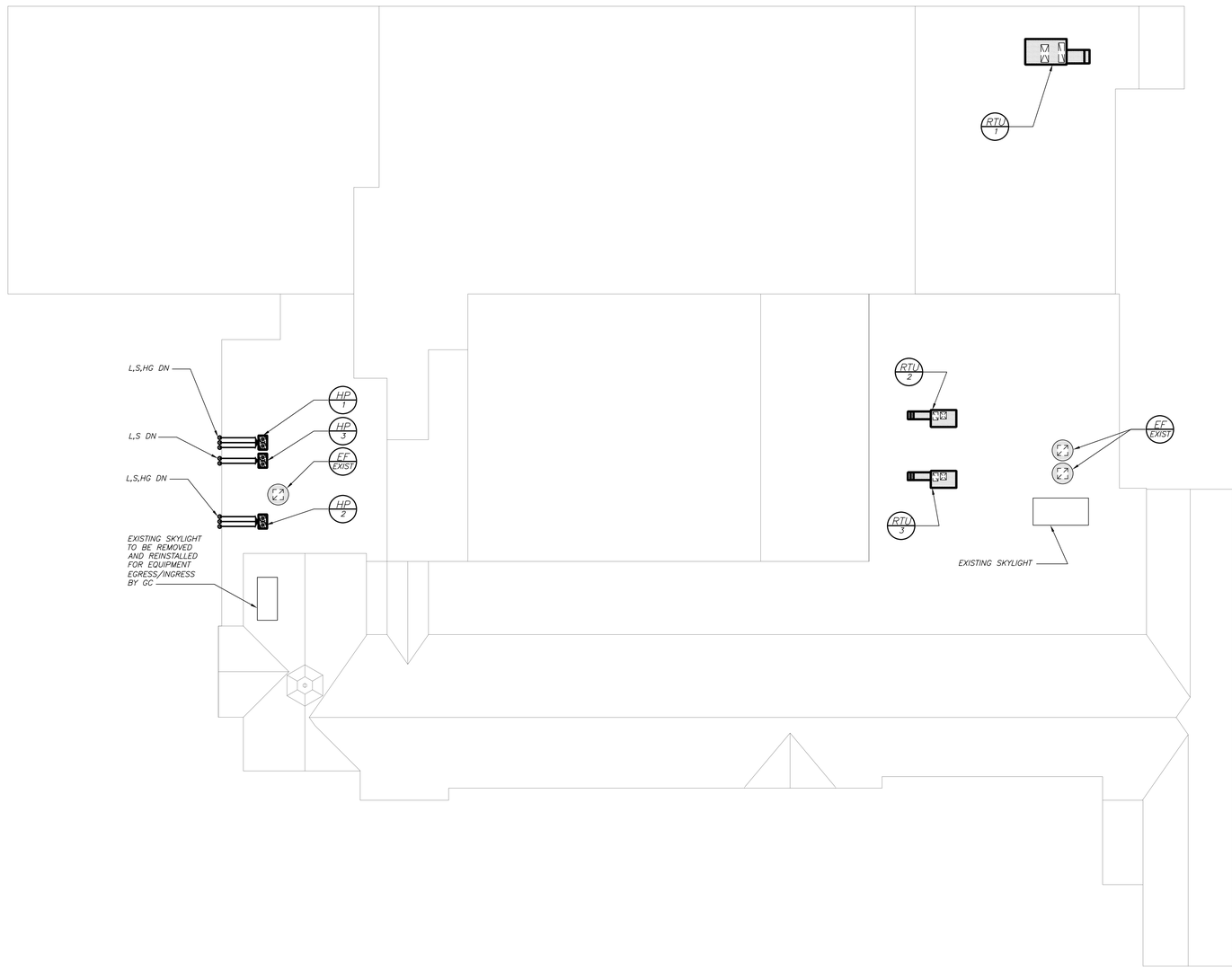
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1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

ROBERT E. BELL PART SECOND AND THIRD FLOOR PLANS

Job No. 2023-1028	Sheet Number H202-BE
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



ROOF PLAN (NEW WORK) 1 H203

0 16' 32'

1/16 Inch=1 foot

N

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1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

ROBERT E. BELL ROOF PLAN

Job No. 2023-1028
Date 10/01/2024
Scale AS NOTED
Drawn / Checked BGA/BGA

Sheet Number
H203-BE

SCHEDULE OF PACKAGED ROOFTOP UNITS

GENERAL DATA				SUPPLY FAN DATA				RET DATA		HOT WATER HEATING COIL DATA	DX COOLING DATA						DX HEATING DATA				FILTER	ENERGY RECOVERY ACCESSORY DATA			ELECTRICAL DATA			PHYSICAL DATA	REMARKS
MARK	SERVICE	LOCATION	MODEL No. (1)	CFM	MOTOR HP	RPM	E.S.P. IN WG	CFM	E.S.P. IN WG		TOTAL COOLING CAP. (MBH)	SENS. COOLING CAP. (MBH)	ENT. TEMP. (DB°F/WB°F)	LVG. TEMP. (DB°F/WB°F)	EER	IEER	HEATING CAP. (MBH)	ENT. TEMP. (DB°F)	LVG. TEMP. (DB°F/WB°F)	COP @47°F	TYPE	MODEL No. (1)	OA CFM	EXH CFM	MCA	MOP	ELECTRICAL SERVICE	LxHxW(in.)/WGT (lbs)	
RTU 1	GYM B 222	ROOF	MV20C0D2P2S1CGT87H1	7300	7.5	1122	1.75	7300	1.75	HWC 1	REFER TO SCHEDULE OF HOT WATER COILS	236	182	77/64	54/53	10.9	13.8	126	62	89	3.30	4" MERV 13	VP036A16L2AL81	2800	2800	118.3+19	150+20	208/3/60	224x58x89/3,700	REFER TO (2)(3)(4)(5)(6)(7)
RTU 2	GYM A 221	ROOF	WP120C00R2BFFCA6A1	4000	3.0	1239	1.5	4000	1.5	HWC 2	REFER TO SCHEDULE OF HOT WATER COILS	130	93	77/64	55/52	11.2	15.2	60	64	88	2.25	4" MERV 13	VP020A12H2AL81	1400	1400	62.5+11.4	70+15	208/3/60	169x51x59/1,900	REFER TO (2)(3)(4)(5)(6)(7)
RTU 3	GYM A 221	ROOF	WP120C00R2BFFCA6A1	4000	3.0	1239	1.5	4000	1.5	HWC 3	REFER TO SCHEDULE OF HOT WATER COILS	130	93	77/64	55/52	11.2	15.2	60	64	88	2.25	4" MERV 13	VP020A12H2AL81	1400	1400	62.5+11.4	70+15	208/3/60	169x51x59/1,900	REFER TO (2)(3)(4)(5)(6)(7)

NOTES
1. AS MANUFACTURED BY "TEMPMASTER".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. DESIGN AIR CONDITIONS: SUMMER: OA (95°F/75°F) RA (75°F/63°F); WINTER: OA (17°F) RA (70°F).
4. PROVIDE PACKAGED ROOFTOP UNIT WITH STAGED COOLING AND HEATING, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, DUCT MOUNTED HW COIL, DIRTY FILTER CONTACTS, HIGH STATIC BELT DRIVE BLOWER, DISCONNECT SWITCH, INTEGRAL VFD'S, ENERGY RECOVERY VENTILATOR ACCESSORY, DEMAND CONTROL VENTILATION, POWERED CONVENIENCE OUTLET, PHASE PROTECTION, DRAIN PANS, HINGED ACCESS PANELS, AND BACNET COMPATIBLE AUTOMATED CONTROLS.
5. FURNISH 24" HIGH ROOF CURB FOR GC INSTALLATION.
6. PROVIDE ENERGY RECOVERY VENTILATOR ACCESSORY WITH ENTHALPY WHEEL (AS NOTED), LOW AMBIENT KIT, MOTORIZED DAMPERS, AND PRESSURE SENSOR. ENERGY RECOVERY VENTILATOR ACCESSORY REQUIRES SEPARATE POWER CONNECTION.
7. INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF EXHAUST FANS

MARK	SERVICE	LOCATION	MODEL No. (1)	TYPE	CFM	EXT. S.P. IN H_2O	RPM	MOTOR HP	ELECTRIC V/PH/HZ	SIZE (IN)	WEIGHT (LBS.)	REMARKS
EF 1	KITCHEN	KITCHEN MECH	USF-22-B6	DIRECT DRIVE CENTRIFUGAL	5500	1.75	1086	2	208/1/60	50LX42WX47H	425	REFER TO (2)(3)(4)

NOTES
1. AS MANUFACTURED BY "GREENHECK".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE DISCONNECT SWITCH, VFD, VIBRATION ISOLATORS, AND NAMEPLATE IDENTIFYING FAN MARK, SERVICE, MODEL NO., CFM, RPM, HP, AND ELECTRICAL SERVICE
4. INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF DEDICATED OUTDOOR AIR SYSTEM UNITS

MARK	SERVICE	LOCATION	MODEL No. (1)	AIRFLOW CONDITIONS			DX COIL CLG DATA					DX COIL HTG DATA			ELEC PRE HTG COIL DATA			FILTER	ELECTRICAL DATA			DIMENSIONS			WEIGHT LBS	REMARKS
				O.A. CFM	ESP. IN. WC	HP	CAPACITY (MBH) TOTAL/SEN.		E.A.T. °F DB/WB	L.A.T. °F DB/WB		CAPACITY (MBH)	E.A.T. °F DB	L.A.T. °F DB	CAPACITY (KW)	E.A.T. °F DB	L.A.T. °F DB	OA FILTERS TYPE / SIZE	VOLTAGE	MCA	MOCP	L	W	H		
DOAS 1	CAFETERIA/ KITCHEN	CAFETERIA 100	ARND203DCR4	2,000	1.5	1.0	143.1	85.6	95/75	53/53		59.9	44	70	10	−2	14	MERV 13/ 2"	208/1/60	7.3 + 48.1	15 + 70	80	78	24	850	REFER TO (2)(3)(4)(5)(6)
DOAS 2	CAFETERIA/ KITCHEN	KITCHEN SERVERY 100A	ARND203DCR4	2,000	1.5	1.0	143.1	85.6	95/75	53/53		59.9	44	70	10	−1	14	MERV 13/ 2"	208/1/60	7.3 + 48.1	15 + 70	80	78	24	850	REFER TO (2)(3)(4)(5)(6)

NOTES
1. AS MANUFACTURED BY "LG". (KLIMA NEW YORK 914 255-4390)
2. DESIGN AIR CONDITION: SUMMER O.A. (95°F/75°F) R.A. (75°F/63°F); WINTER O.A. (10°F/10°F) R.A. (70°F/53°F).
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S SUPERVISION FOR FIELD INSTALLATION AND START-UP.
4. REFRIGERANT R-410A.
5. PROVIDE INDOOR 100% OA DOAS UNIT WITH PRE HEATING ELECTRIC COIL, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, DIRTY FILTER CONTACTS, DISCONNECT SWITCH, ECM MOTOR, FILTERS (AS NOTED), DIRECT EXPANSION COIL FOR HEAT PUMP DUTY, HOT GAS REHEAT, STAINLESS STEEL DRAIN PAN, DISCHARGE AIR CONTROL/SENSORS, BACNET COMPATIBLE AUTOMATED CONTROLS (AS NOTED).
6. INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF VRF DUCTLESS AIR SOURCE HEAT RECOVERY OUTDOOR UNITS

GENERAL DATA				CAPACITY		PHYSICAL DATA		ELECTRICAL INFORMATION			EER	COP	REMARKS
MARK	SERVICE	LOCATION	MODEL No. (1)	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	DxWxH (IN)	WEIGHT (LBS)	V/PH/HZ	MCA	MOCP			
HP 1	DOAS 1	ROOF	MULTI V5 ARUM144 BTE5	144,000	162,000	30x49x67	666	208/3/60	51.1	70	12.1	3.52	REFER TO (2)(3)(4)(5)(6)(7)
HP 2	DOAS 2	ROOF	MULTI V5 ARUM144 BTE5	144,000	162,000	30x49x67	666	208/3/60	51.1	70	12.1	3.52	REFER TO (2)(3)(4)(5)(6)(7)
HP 3	CAFETERIA	ROOF	MULTI V5 ARUM168 BTE5	168,000	189,000	30x49x67	666	208/3/60	53.6	70	11.7	3.57	REFER TO (2)(3)(4)(5)(6)(7)

NOTES
1. AS MANUFACTURED BY "LG.".
2. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.
3. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.
5. PROVIDE PROGRAMMABLE THERMOSTAT, LOW AMBIENT CONTROL, HARD START, CRANKCASE HEATER, DISCONNECT SWITCH. THE VRF SYSTEM SHALL BE. ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYSVRF MANUFACTURER SHALL ASSIST ATC CONTRACTOR IN INTEGRATION OF VRF SYSTEM WITH BMS.
6. FURNISH 24" HIGH RAILS FOR GC INSTALLATION.
7. INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF MULTI-ZONE UNITS

GENERAL DATA					UNIT ZONES			SUPPLY FAN DATA							HEATING COIL DATA		FILTER DATA			REMARKS
MARK	SERVICE	LOCATION	O.A. CFM	MODEL No. (1)	NO.	SERVICE	CFM	CFM	EXT. S.P. IN WG	FAN RPM	MOTOR HP	ELECTRIC SERVICE	MCA	MOCP	TOTAL CAP. MBH	ENT. AIR TEMP.	No.	SIZE	TYPE	
MZ 1	AUDITORIUM	ATTIC MECH ROOM	9000	PAI-51X72	1	AUDITORIUM	3750	9000	2.0	2039	20.0	208/3/60	61.8	110	1,074	−10	8	4"	MERV13	REFER TO (2)(3)(4)(5)
					2	AUDITORIUM	3750									84				
					3	STAGE	1500													

NOTES
1. AS MANUFACTURED BY "PACE".
2. BASED ON 180°F E.W.T., 160°F L.W.T.
3. UNIT ARRANGED FOR ECONOMIZER AIR CONTROL.
4. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
5. CFM DESIGNED TO MATCH EXISTING CONDITIONS

SCHEDULE OF HEATING AND VENTILATION UNITS

MARK	LOCATION	SERVICE	MODEL No. (1)	CFM	MIN. O.A. CFM	HEATING DATA (2) CAPACITY MBH	HEATING DATA (2) ROWS	FILTER TYPE	MOTOR H.P.	ELEC. SERV.	PHYSICAL DATA DIMENSION / WEIGHT	REMARKS
HV 1	BREAK ROOM 11A	CUSTODIAL AREA 111	HCB40AAAAH2AGABACCBDABAM	3500	3500	328	2	4" MERV13	3.0	208/3/60	61Lx60"Wx34"H/300LBS	REFER TO (2)(3)(4)(5)(6)
HV 2	ATTIC MECH ROOM	FIRST FLOOR CLASSROOMS	HCB40AAAAH2AGABACCBDABAM	4000	4000	336	2	4" MERV13	3.0	208/3/60	61"Lx60"Wx34"H/300LBS	REFER TO (2)(3)(4)(5)(6)

NOTES
1. AS MANUFACTURED BY "MAGICAIRE".
2. BASED ON ENTERING/LEAVING WATER TEMPERATURES HW 180/160°.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
4. CFM DESIGNED TO MATCH EXISTING CONDITIONS
5. UNIT SHALL INCLUDE HW HEATING COIL, ECM HIGH STAIC VARIABLE SPEED MOTOR, NON-FUSED DISCONNECT SWITCH, 4" MERV 13 FILTERS, STAINLESS STEEL DRAIN PAN, FIELD INSTALLED DDC CONTROL PACKAGE, AND BACNet CONTROLLER. LH AND RH CONNECTIONS TO BE COORDINATED IN FIELD PRIOR TO ORDERING.
6. INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF AIR HANDLING UNITS

MARK	LOCATION	SERVICE	MODEL No. (1)	CFM	MIN. O.A. CFM	HEATING DATA (2) CAPACITY MBH	HEATING DATA (2) ROWS	FILTER TYPE	MOTOR H.P.	ELEC. SERV.	PHYSICAL DATA DIMENSION / WEIGHT	REMARKS
AHU 1	ATTIC MECH ROOM	SECOND FLOOR CLASSROOMS	AVS040E-R-FHV	4700	4700	327	2	4" MERV13	3.0	208/3/60	59"Lx59"Wx38"H/420LBS	REFER TO (2)(3)(4)(5)(6)

NOTES
1. AS MANUFACTURED BY "VTS".
2. BASED ON ENTERING/LEAVING WATER TEMPERATURES HW 180/160°.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
4. CFM DESIGNED TO MATCH EXISTING CONDITIONS
5. UNIT SHALL INCLUDE HW HEATING COIL, VFD, NON-FUSED DISCONNECT SWITCH, 4" MERV 13 FILTERS, STAINLESS STEEL DRAIN PAN, FIELD INSTALLED DDC CONTROL PACKAGE, AND BACNet CONTROLLER. LH AND RH CONNECTIONS AND ACCESS DOORS TO BE COORDINATED IN FIELD PRIOR TO ORDERING.
6. INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF VRF HEAT RECOVERY INDOOR UNITS

INDOOR AIR HANDLER INFORMATION											
GENERAL DATA			SUPPLY FAN DATA			COOLING COIL DATA (5)			HEATING		REMARKS
MARK	LOCATION	MODEL No. (1)	HIGH CFM	MOTOR (AMPS)	ELECTRIC SERVICE	TOTAL CAP BTU/HR	SENSIBLE CAP BTU/HR	ENT. AIR TEMP. DB/WB	TOTAL CAP BTU/HR	ENT. AIR TEMP.	
FCU 2	WALL MTD	ARNU363SVA4	918	1.02	208/1/60	35,500	25,900	80 / 67	37,000	70	REFER TO (2)(3)(4)(5)(6)

NOTES
1. AS MANUFACTURED BY "LG."
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.
4. PROVIDE FACTORY MOUNTED INTEGRAL CONDENSATE PUMP, CHECK VALVE, ANTI SWEAT SLEEVE AND AUTO SHUTDOWN OVERFLOW SWITCH.
5. PROVIDE MOUNTING HARDWARE, VIBRATION ISOLATORS, AND DISCONNECT.
6. THE VRF SYSTEM SHALL BE INTEGRATED WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS. VRF MANUFACTURER SHALL ASSIST ATC CONTRACTOR IN INTEGRATION OF VRF SYSTEM WITH BMS.

SCHEDULE OF ELECTRIC UNIT HEATERS

MARK	MODEL No. (1)	CAPACITY DATA BTU/HR	AMPS	KW	MOTOR HP	ELECTRIC SERVICE	PHYSICAL DATA LxWxH (IN)	WEIGHT	MTG.	REMARKS
EUH 1	HER 30C 3101	10,200	8.3	3.0	1/40	208/3/60	14X12X17	50 LBS	CEILING HUNG	REFER TO (2)(3)(4)

NOTES
1. AS MANUFACTURED BY "MODINE".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE UNIT MOUNTED VARIABLE SPEED CONTROLLER AND MOUNTING HARDWARE.
4. PROVIDE ALL POWER RELAYS AND BACNET CONTROLLER.

SCHEDULE OF DUCT MOUNTED HOT WATER HEATING COILS

MARK	SERVICE	HTG. CAPACITY BTU/HR	E.A.T. (°F)	L.A.T. (°F)	E.W.T. (°F)	L.W.T. (°F)	GPM	CFM	COIL FACE AREA SQ.FT.	COIL FACE VELOC.FPM	ROWS	REMARKS
HWC 1	RTU 1	278,000	60	95	180	160	29	7,300	8.31	878	2	REFER TO (1)(2)(3)(4)(5)(6)(7)(8)
HWC 2	RTU 2	155,800	60	96	180	160	16	4,000	9.90	404	1	REFER TO (1)(2)(3)(4)(5)(6)(7)(8)
HWC 3	RTU 3	155,800	60	96	180	160	16	4,000	9.90	404	1	REFER TO (1)(2)(3)(4)(5)(6)(7)(8)

NOTES
1. AS MANUFACTURED BY "NATIONWIDE COILS INC."
2. AIR PRESSURE DROP ACROSS COIL SHALL NOT EXCEED 0.35" S.P.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. COIL SHALL BE MINIMUM 1 ROWS WITH MINIMUM OF 7 FINS PER INCH.
5. 5/8" TUBE AND ALUMINUM FINS.
6. GALVANIZED PITCHED CASING.
7. THE WATER COIL IS SIZED TO HANDLE OUTDOOR AIR QUANTITIES AT 100 PERCENT (WITH ENERGY RECOVERY UNIT IN OPERATION) OF OCCUPANCY WITHOUT HAVING TO RESORT TO CLOSING OUTDOOR AIR INTAKE DAMPERS ON A "DESIGN HEATING DAY" TO PREVENT FREEZE-UP.
8. BASED ON ENTERING/LEAVING WATER TEMPERATURES HW 180/160°.

SCHEDULE OF REGISTERS AND DIFFUSERS

MARK	TYPE	SERVICE	MODEL No. (1)	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	REMARKS
A	CEILING DIFFUSER	SUPPLY	SCD	4-WAY	OPPOSED BLADE	PER ARCH.	REFER TO (2)(4)(5)
B	CEILING REGISTER	RETURN	635	-			REFER TO (2)(3)(6)
C	SIDEWALL REGISTER	SUPPLY	625	2-WAY			REFER TO (2)(4)(5)
D	SIDEWALL REGISTER	RETURN	635	-			REFER TO (2)(3)(6)

NOTES
1. AS MANUFACTURED BY "PRICE".
2. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE CABLE OPERATED DAMPERS IN UN-ACCESSIBLE AREAS.
4. PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES, AND DIMENSIONS WITH ARCHITECT.

(5) SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 500 fpm)

50 TO 99	100 TO 299	300 TO 499	500 TO 799	800 TO 1199	1200 TO 1499	1500 TO 1999
6x6	9x9	12x12	15x15	18x18	21X21	24X24

(6) RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)

50 TO 149	150 TO 249	250 TO 399	400 TO 599	600 TO 799	800 TO 1099	1100 TO 1199	1200 TO 2399
6x6	8X8	10X10	12X12	14X14	16X16	18X18	24X24

SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#P/1000 SQ.FT.)	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A×B)÷1000=#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (P×C)+(A×D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
CAFETERIA / 100	CAFETERIA/FAST-FOOD DINING	2200	100	7.5	0.18	0	220	2046	0.8	2558	0
CAFETERIA / 100B	CAFETERIA/FAST-FOOD DINING	500	100	7.5	0.18	0	50	465	0.8	581	0
UPPER GYM A / 221	GYM, SPORTS ARENA (PLAY AREA)	2700	7	20	0.18	0.5	19	866	0.8	1083	1350
LOWER GYM A / 221	GYM, SPORTS ARENA (PLAY AREA)	2700	7	20	0.18	0.5	19	866	0.8	1083	1350
GYM B / 222	GYM, SPORTS ARENA (PLAY AREA)	4800	7	20	0.18	0.5	34	1544	0.8	1930	2400
AHU-1 CUSTODIAL AREA / 111	BREAK ROOMS	500	50	5	0.12	0	25	185	0.8	231	0
AHU-2 SECOND FLOOR CLASSROOMS	CLASSROOM (AGES 9+)	6300	35	10	0.12	0	221	2965	0.8	3708	0
AHU-3 FIRST FLOOR CLASSROOMS	CLASSROOM (AGES 9+)	5800	35	10	0.12	0	203	2726	0.8	3408	0
AUDITORIUM ZONE 1	AUDITORIUM SEATING AREA	1500	150	5	0.06	0	225	1215	0.8	1519	0
AUDITORIUM ZONE 2	AUDITORIUM SEATING AREA	1500	150	5	0.06	0	225	1215	0.8	1519	0
AUDITORIUM STAGE ZONE 3	STAGES, STUDIOS	900	70	10	0.06	0	63	684	0.8	855	0

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DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Key Plan
Robert Bell Middle School



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Professional Seal

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4	10/07/2024	ISSUE FOR BID
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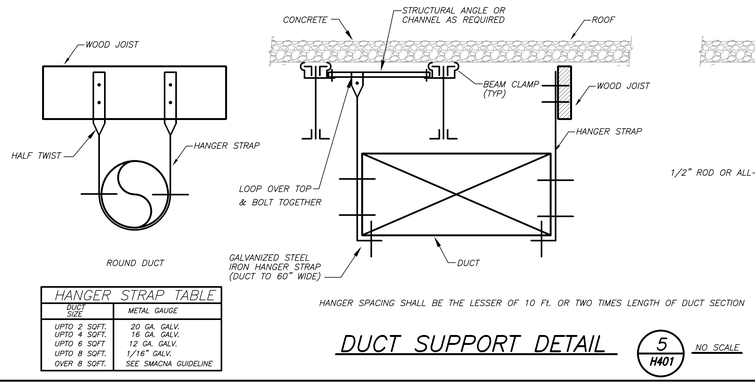
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ROBERT E. BELL SCHEDULES

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Date 10/01/2024
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Drawn / Checked BGA/BGA

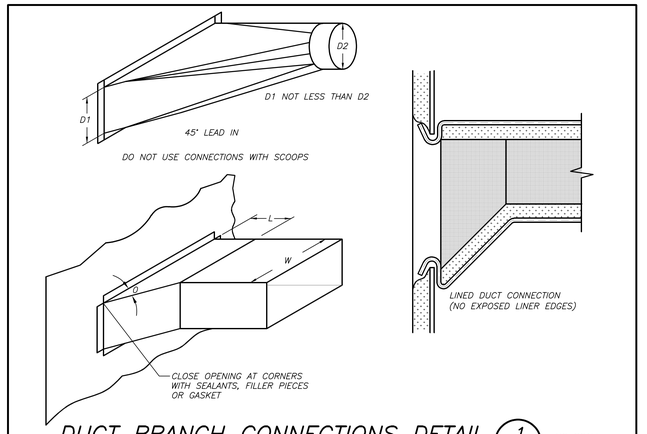
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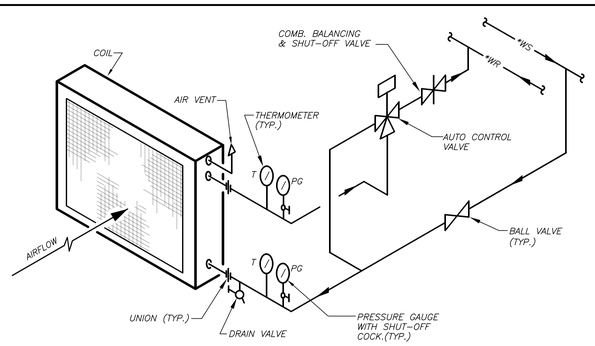


HANGER STRAP TABLE	
DUCT SIZE	METAL GAUGE
UPTO 2 SQFT.	20 GA. GALV.
UPTO 4 SQFT.	16 GA. GALV.
UPTO 6 SQFT	12 GA. GALV.
UPTO 8 SQFT.	1/16" GALV.
OVER 8 SQFT.	SEE SMACNA GUIDELINE

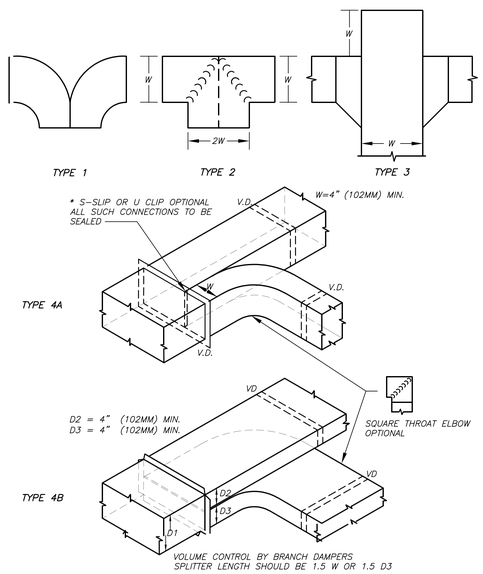
DUCT SUPPORT DETAIL 5/H401 NO SCALE



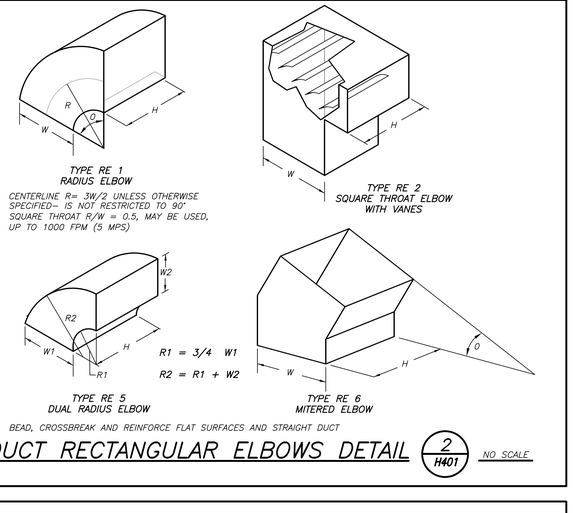
DUCT BRANCH CONNECTIONS DETAIL 1/H401 NO SCALE



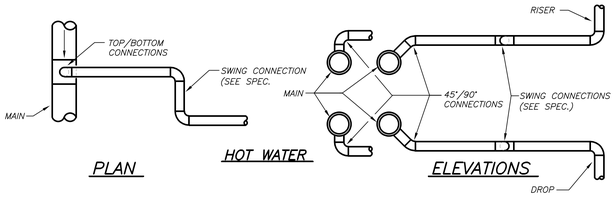
COIL PIPING CONNECTION DETAIL 8/H401 NO SCALE



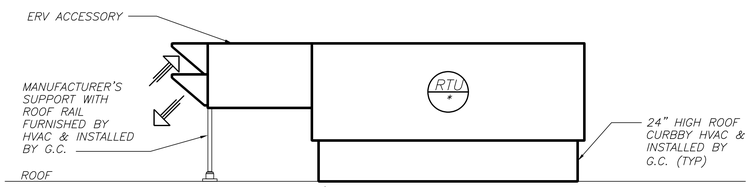
DUCT DIVIDED FLOW BRANCHES DETAIL 6/H401 NO SCALE



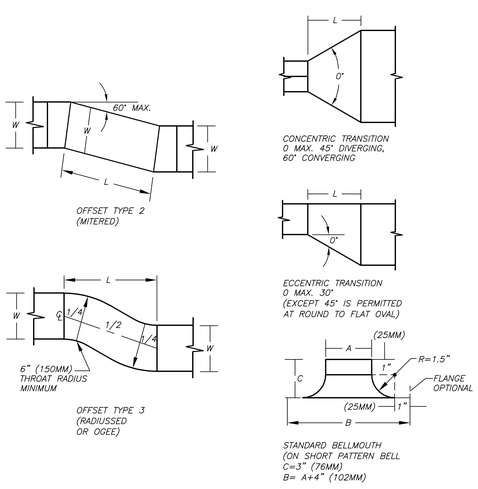
DUCT RECTANGULAR ELBOWS DETAIL 2/H401 NO SCALE



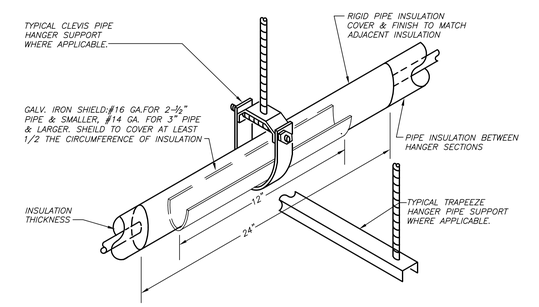
DETAIL OF PIPING BRANCH CONNECTION 9/H401 NO SCALE



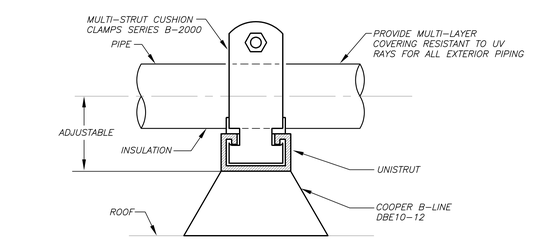
RTU ENERGY RECOVERY ACCESSORY SUPPORT RAIL DETAIL 10/H401 NO SCALE



DUCT OFFSETS AND TRANSITIONS DETAIL 7/H401 NO SCALE



INSULATED PIPE HANGER DETAIL 3/H401 NO SCALE



PIPING SUPPORT AT ROOF DETAIL 4/H401 NO SCALE

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DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET•MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

SED Control No.
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BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

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914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Key Plan
Robert Bell Middle School



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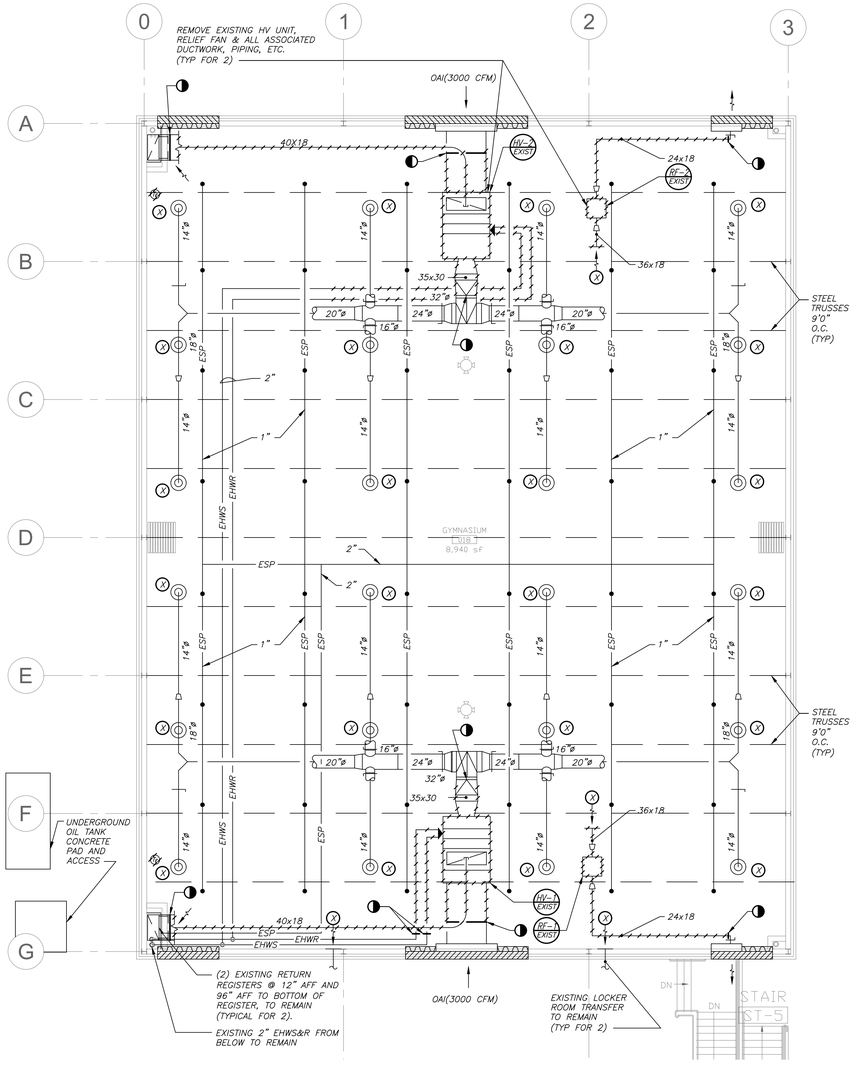
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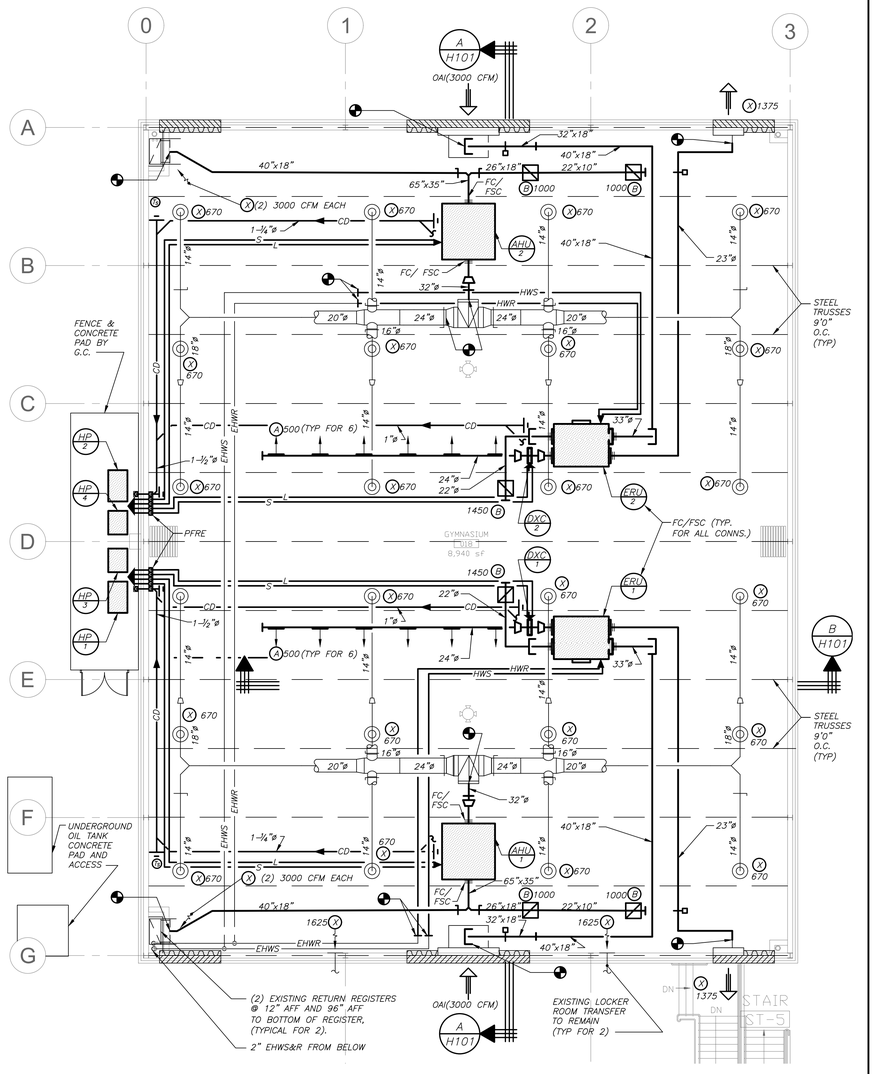
ROBERT E. BELL DETAILS

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Date 10/01/2024	
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Drawn / Checked BGA/BGA	



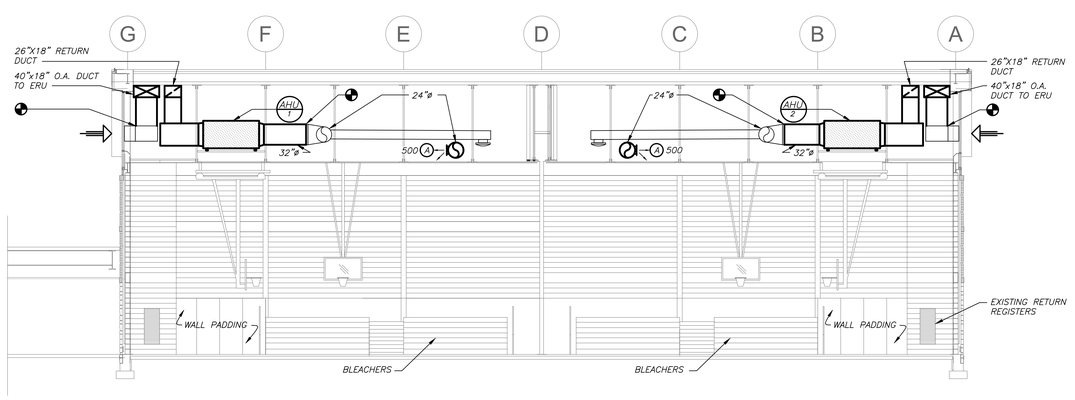
GYM FLOOR PLAN (REMOVALS)

2 H101 — 1/8 inch=1 foot



GYM FLOOR PLAN (NEW WORK)

1 H101 — 1/8 inch=1 foot



GYM SECTION LOOKING WEST

A H101 — 1/8 inch=1 foot

VRF SYSTEM:

THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR A COMPLETE AND OPERABLE SYSTEM.

CONDENSATE DRAIN SYSTEM:

THE CONTRACTOR SHALL PROVIDE CONDENSATE PIPING FROM EACH RESPECTIVE INDOOR EVAPORATOR UNIT, COIL, AIR HANDLER, FC, ERU, DOAS, AND RTU TO THE NEAREST FLOOR DRAIN, JANITOR'S SINK, INDIRECT WASTE, OR ROOF DRAIN, FOR A COMPLETER AND OPERABLE SYSTEM. CONDENSATE DRAIN PIPING SHALL BE A MINIMUM 1" ROUND.

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DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

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66 Roaring Brook Road
Chappaqua, NY 10514

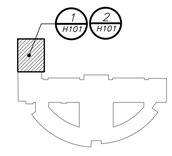
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Key Plan
Seven Bridges Middle School



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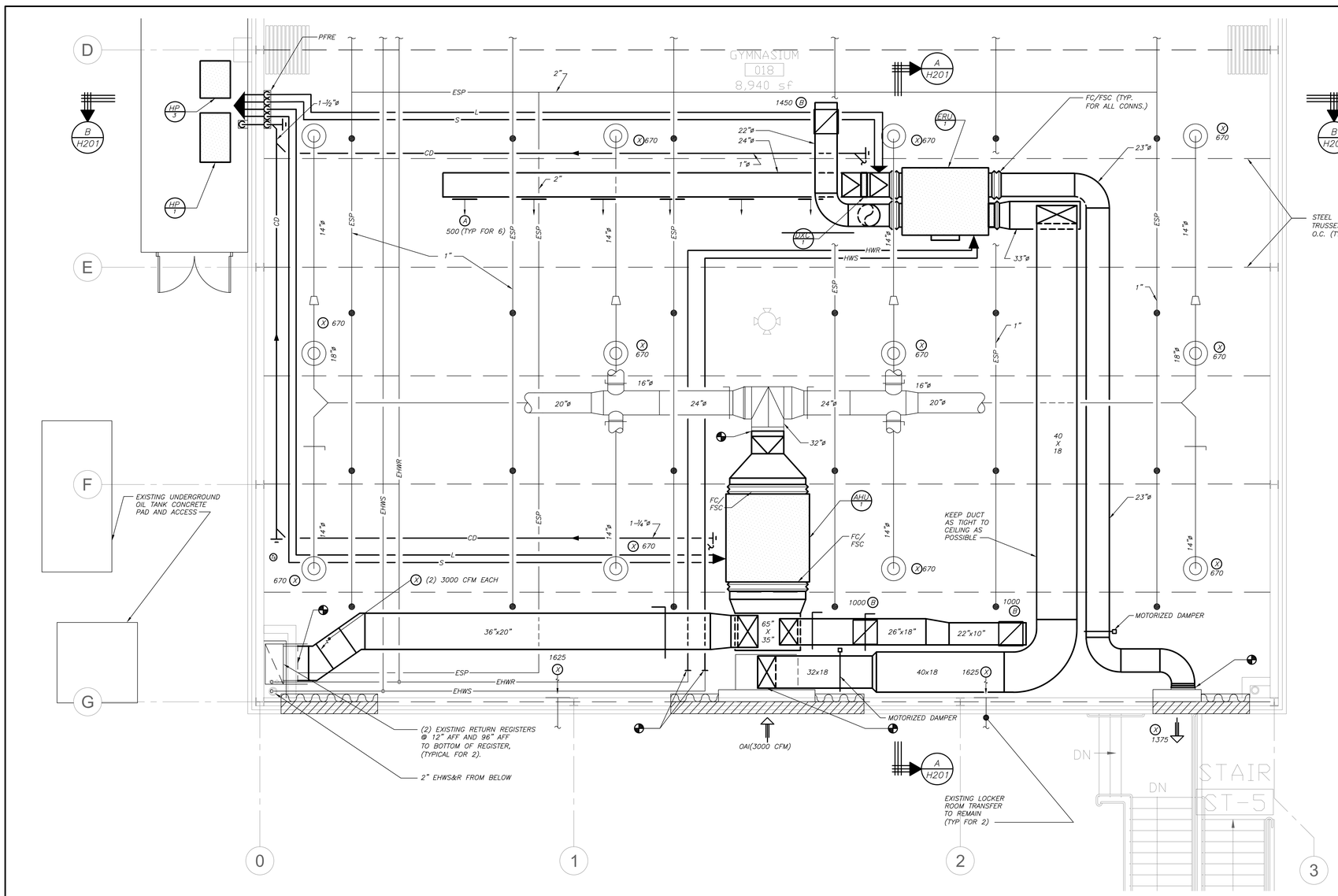
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4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

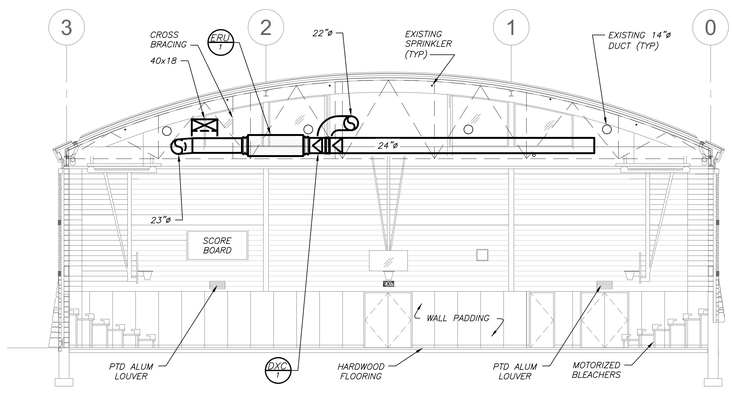
SEVEN BRIDGES GYM FLOOR PLANS

Job No. 2023-1028	Sheet Number H101-SB
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



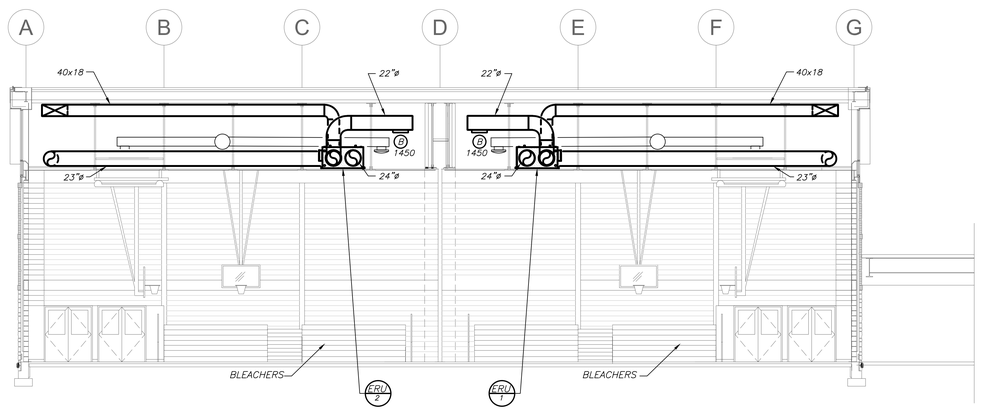
PART GYM FLOOR PLAN (NEW WORK)

1 H201 — 0, 4', 8' — 1/4 inch=1 foot



GYM SECTION LOOKING SOUTH (NEW WORK)

B H201 — 0, 8', 16' — 1/8 inch=1 foot



GYM SECTION LOOKING EAST (NEW WORK)

A H201 — 0, 8', 16' — 1/8 inch=1 foot

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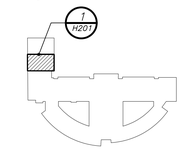
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Sheet Title

SEVEN BRIDGES PART GYM FLOOR PLAN

Job No. 2023-1028	Sheet Number H201-SB
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	

SCHEDULE OF AIR HANDLING UNITS

MARK	MODEL No. (1)	CFM	HEATING DATA		COOLING DATA (2)		FILTER TYPE	MOTOR H.P.	ELECTRICAL DATA			PHYSICAL DATA	REMARKS
			CAPACITY MBH	ROWS	CAPACITY MBH	ROWS			MCA	MOP	ELECTRICAL SERVICE	DIMENSION / WEIGHT	
AHU 1	AVS085-R-FCV	8000	240	3	240	3	MERV 8/2"	5.0	8.4	15.1	460/3/60	88"Lx83"Dx47"H/876LBS	REFER TO (3)(4)
AHU 2	AVS085-R-FCV	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

NOTES
1. (1) AS MANUFACTURED BY "VENTUS".
2. (2) BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.
3. (3) INSTALL PER MANUFACTURER'S RECOMMENDATIONS
4. (4) PROVIDE GAS REHEAT.

SCHEDULE OF ENERGY RECOVERY UNITS

GENERAL DATA				SUPPLY FAN DATA			RETURN–EXH. FAN DATA			ELECTRICAL DATA			HEAT EXCHANGER		DX COIL DATA	HOT WATER HEATING COIL DATA							FILTER	PHYSICAL DATA	REMARKS
MARK	SERVICE	LOCATION	MODEL No. (1)	CFM	MOTOR W	E.S.P. IN WG	CFM	MOTOR HP	E.S.P. IN WG	MCA	MOP	ELECTRICAL SERVICE	MODEL	THERMAL EFFICIENCY (%)		HTG. CAPACITY BTU/HR	E.A.T. (°F)	L.A.T. (°F)	E.W.T. (°F)	L.W.T. (°F)	GPM	CFM	COIL FACE AREA SQ.FT.	COIL FACE VELOC.FPM	TYPE	LxHxW(in.)/WEIGHT(lbs)	
ERU 1	GYM	CEILING	TOPVEX FR 3800	3000	6200	1.0	1450	6200	1.0	17.5	25	208/3/60	FR 3800	70	DXC 1	REFER TO SCHEDULE OF DX COILS	89,500	53	80	180	160	9	3,000	6	500	MERV 13 & MERV 9	96.5x33.1x60/948	REFER TO (2)(3)
ERU 2	GYM	CEILING	TOPVEX FR 3800	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	DXC 2	REFER TO SCHEDULE OF DX COILS	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

NOTES
1. (1) AS MANUFACTURED BY "SYSTEMAIR".
2. (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. (3) BASED ON ENTERING/LEAVING WATER TEMPERATURES HW 180/160°.

SCHEDULE OF DX DUCT MTD COILS

MARK	SERVICE	COOL/HEAT CAPACITY	CFM	COIL FACE AREA	COIL FACE VELOCITY	REMARKS
DXC 1	CDU 1	72,000/81,000	3,000	6	500	REFER TO (1)(2)
DXC 2	CDU 2	↓	↓	↓	↓	↓

NOTES
1. (1) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. (2) BASED ON ARI CERTIFIED COIL SELECTIONS. REFRIGERANT R410a.

SCHEDULE OF VRF DUCTLESS AIR SOURCE HEAT RECOVERY OUTDOOR UNITS

GENERAL DATA				CAPACITY		PHYSICAL DATA		ELECTRICAL INFORMATION			EER	COP	REMARKS
MARK	SERVICE	LOCATION	MODEL No. (1)	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	DxWxH (IN)	WEIGHT (LBS)	V/PH/HZ	MCA	MOCP			
HP 1	GYM AHU	OUTDOORS	MULTI V5 ARUM241 DTE5	233,100	243,000	30x49x67	666	460/3/60	41.4	50	10.40	2.26	REFER TO (2)(3)(4)(5)(6)(7)
HP 2	GYM AHU	OUTDOORS	MULTI V5 ARUM241 DTE5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
HP 3	GYM DX COIL	OUTDOORS	MULTI V5 ARUM072 DTE5	72,000	81,000	30x37x67	430	460/3/60	12.8	20	13.0	2.49	
HP 4	GYM DX COIL	OUTDOORS	MULTI V5 ARUM072 DTE5	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

NOTES
1. (1) AS MANUFACTURED BY "LG.".
2. (2) BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.
3. (3) INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. (4) PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.
5. (5) PROVIDE PROGRAMMABLE THERMOSTAT, LOW AMBIENT CONTROL, HARD START, CRANKCASE HEATER, DISCONNECT SWITCH. THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL AND RS-485 LOAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.
6. (6) FURNISH RAILS FOR GC INSTALLATION.
7. (7) INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#P/1000 SQ.FT.)	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A×B)÷1000=#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
GYMNASIUM	GYM, SPORTS ARENA (PLAY AREA)	8940	7	20	0.18	0.5	63	2869	0.8	3587	4470

SCHEDULE OF REGISTERS AND DIFFUSERS

MARK	TYPE	SERVICE	MODEL No. (1)	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	REMARKS
A	SPIRAL DUCT REGISTER	SUPPLY	620	DOUBLE DEFLECTION	OPPOSED BLADE	PER ARCH.	REFER TO (2)
B	CEILING REGISTER	RETURN	635	–	↓	↓	REFER TO (2)(3)(4)

NOTES
1. (1) AS MANUFACTURED BY "PRICE INDUSTRIES".
2. (2) INSTALL PER MANUFACTURERS RECOMMENDATIONS.
3. (3) BARS SET @ 0 DEGREES DEFLECTION.

(4) RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)							
50 TO 149	150 TO 249	250 TO 399	400 TO 599	600 TO 799	800 TO 1099	1100 TO 1199	1200 TO 2399
6x6	8X8	10X10	12X12	14X14	16X16	18X18	24X24

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DBE: TAB: H301 – Y:\CHAPPAQUA CSD\Chappaqua CSD – DW Capital Projects (2332.00)\Drawings\HVAC\SEVEN BRIDGES MS\233200-H301-SBMS.dwg – DATE: Oct 02, 2024 – 5:15pm

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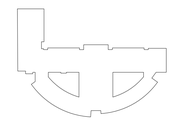
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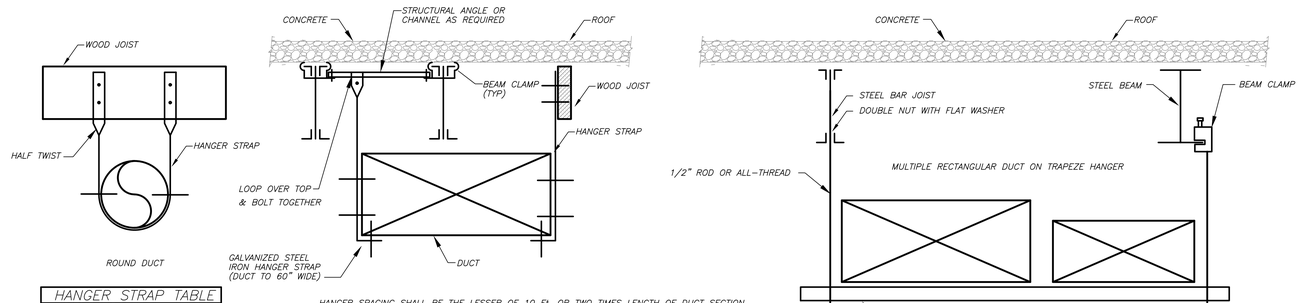
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SEVEN BRIDGES SCHEDULES

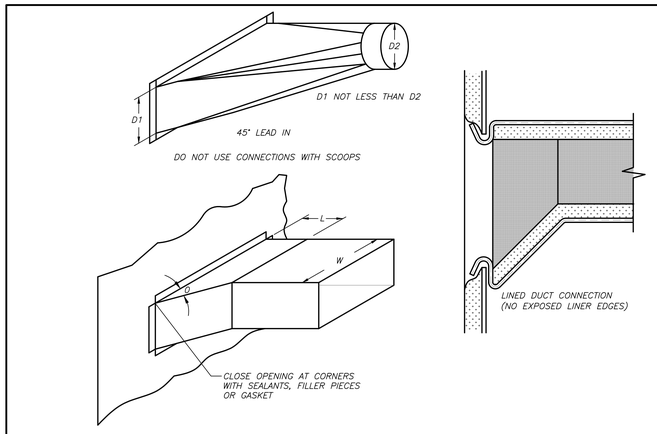
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HANGER STRAP TABLE	
DUCT SIZE	METAL GAUGE
UPTO 2 SQFT.	20 GA. GALV.
UPTO 4 SQFT.	16 GA. GALV.
UPTO 6 SQFT	12 GA. GALV.
UPTO 8 SQFT.	1/16" GALV.
OVER 8 SQFT.	SEE SMACNA GUIDELINE

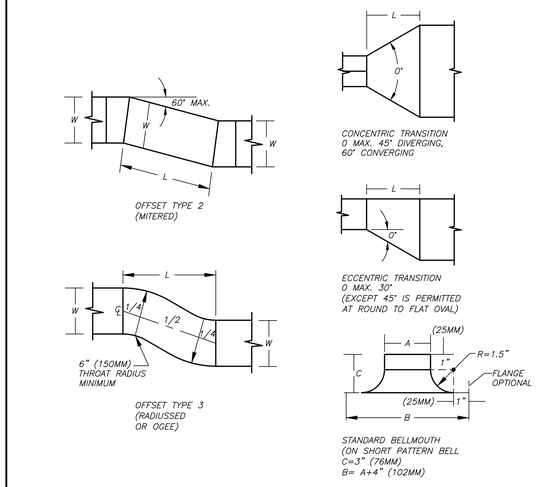
DUCT SUPPORT DETAIL

1 / H401 — NO SCALE



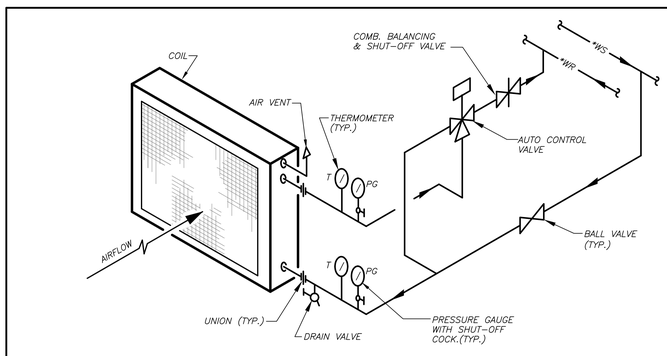
DUCT BRANCH CONNECTIONS DETAIL

4 / H401 — NO SCALE



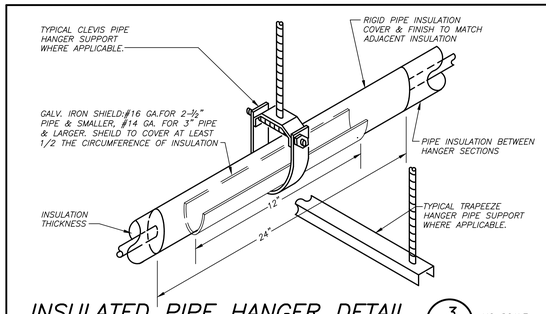
DUCT OFFSETS AND TRANSITIONS DETAIL

2 / H401 — NO SCALE



COIL PIPING CONNECTION DETAIL

5 / H401 — NO SCALE



INSULATED PIPE HANGER DETAIL

3 / H401 — NO SCALE

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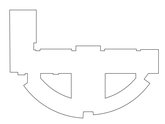
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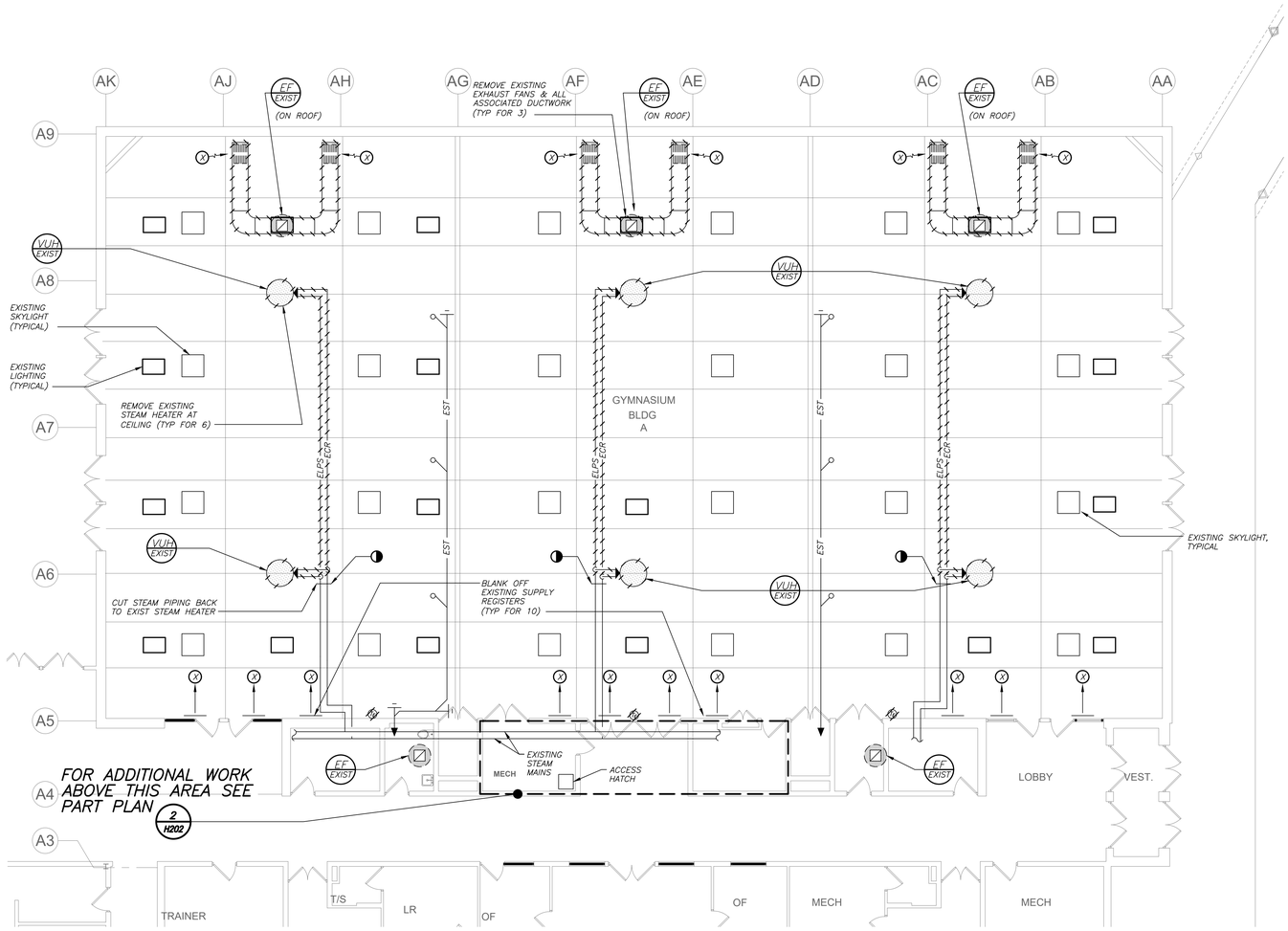
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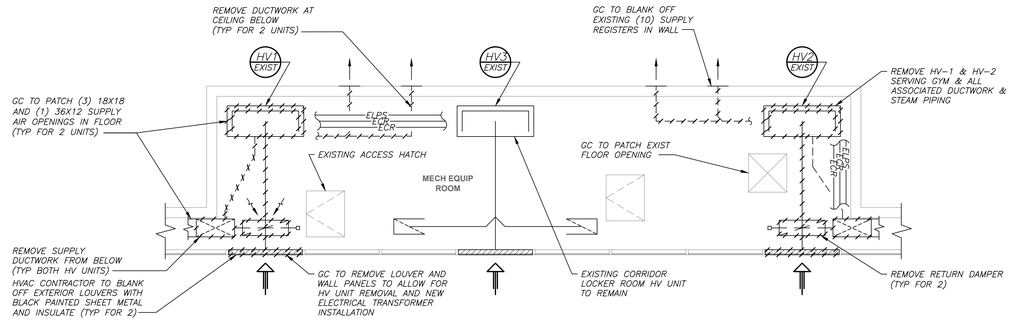
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BLDG "A" GYMNASIUM FLOOR PLAN (REMOVALS)

1 H101 — 1/8 inch=1 foot



MECHANICAL PENTHOUSE PLAN (REMOVALS)

2 H101 — NO SCALE

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DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

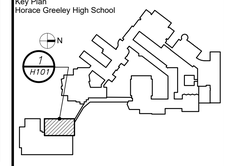
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285 MAIN STREET•MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

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CONSULTING ENGINEERS
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Key Plan
Horace Greeley High School



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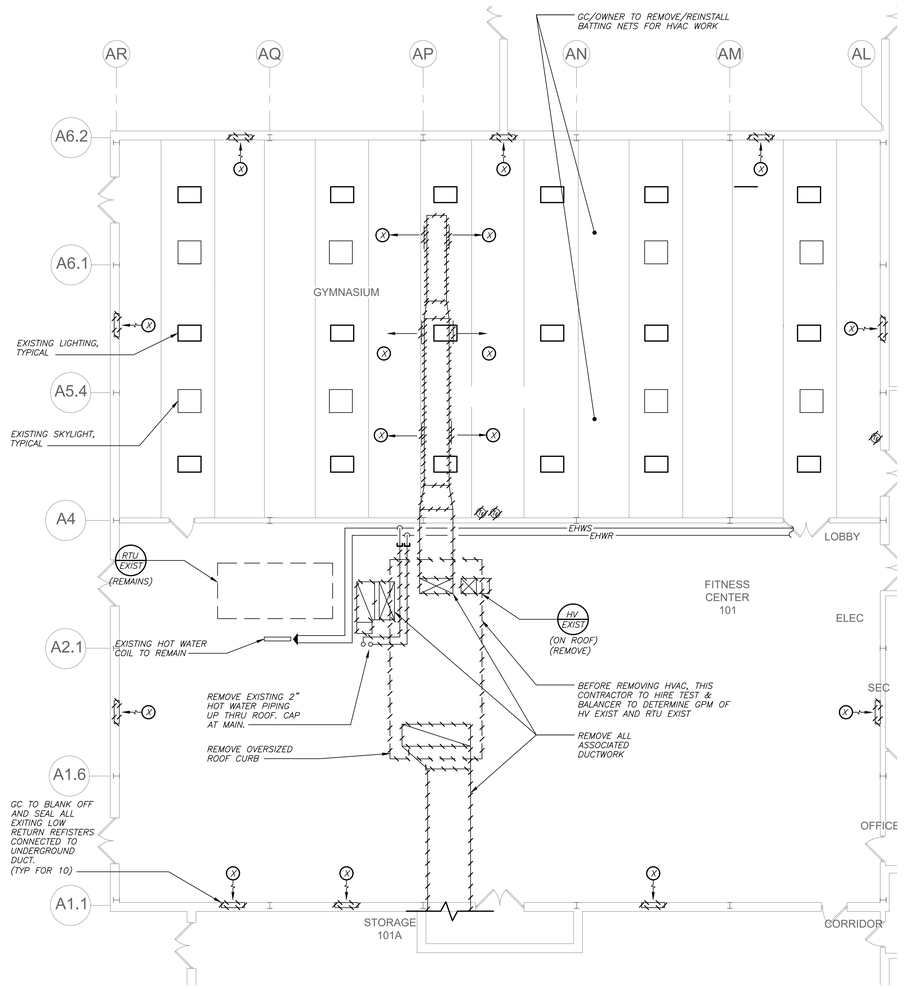
No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

HORACE GREELEY PART BUILDING "A" FLOOR PLAN

Job No. 2023-1028	Sheet Number H101-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	

DBE: TAB: H101 — C:\Users\NMensch\appdata\local\temp\AcPublish_18060\233200-H101-HGHS.dwg — DATE: Oct 04, 2024 — 10:17am



GYMNASIUM & FITNESS ROOMS FLOOR PLAN (REMOVALS)

1 / H102

0 8' 16'

1/8 inch=1 foot

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HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

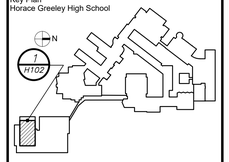
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CONSTRUCTION DOCUMENTS

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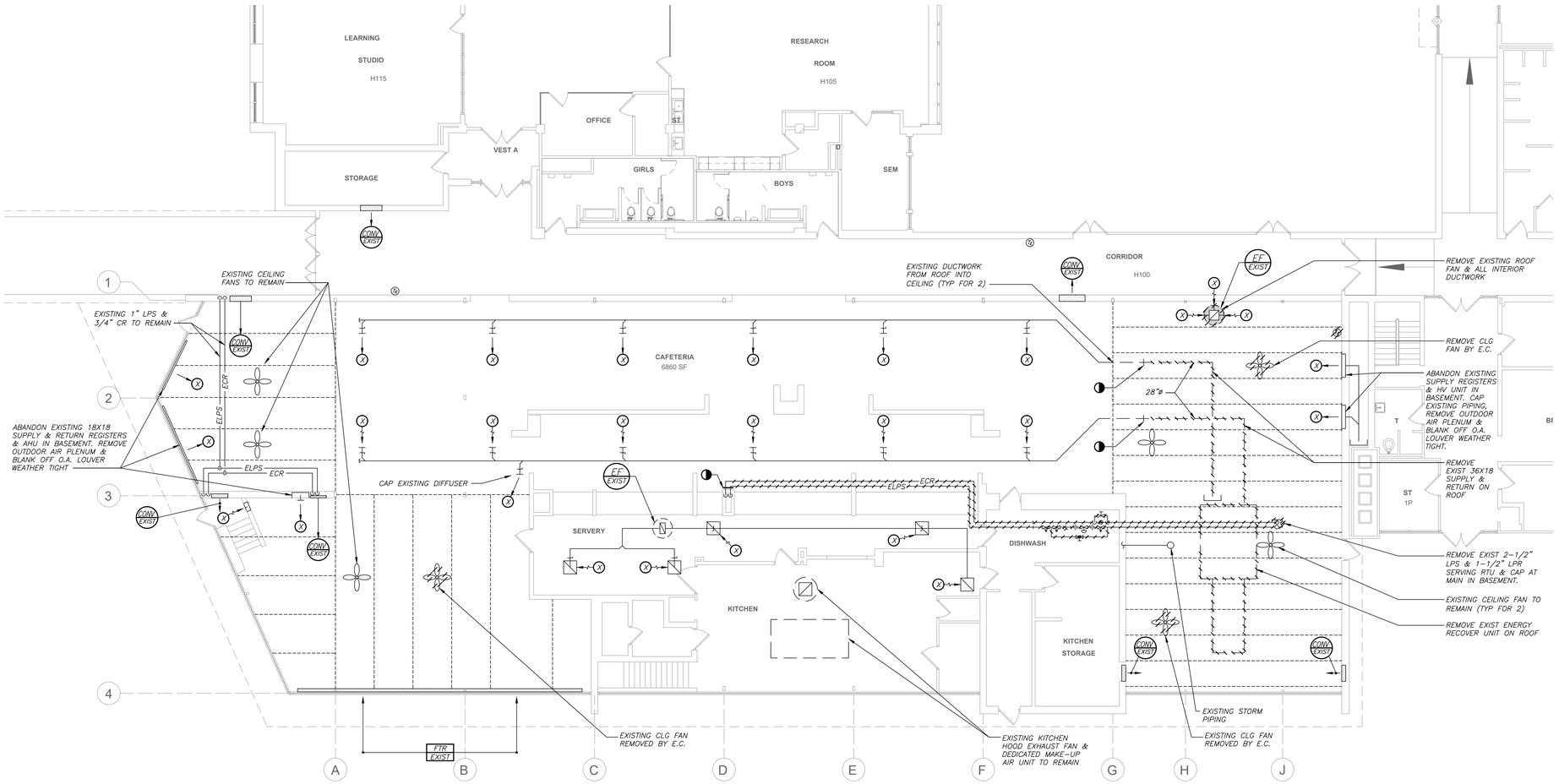
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No.	Date	Issue
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3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

HORACE GREELEY PART BUILDING "A" FLOOR PLAN

Job No. 2023-1028	Sheet Number H102-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



CAFETERIA FLOOR PLAN (REMOVALS)

1 / H103

0 4' 8' 16'

1/8 inch=1 foot

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HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

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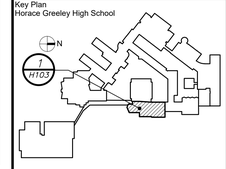
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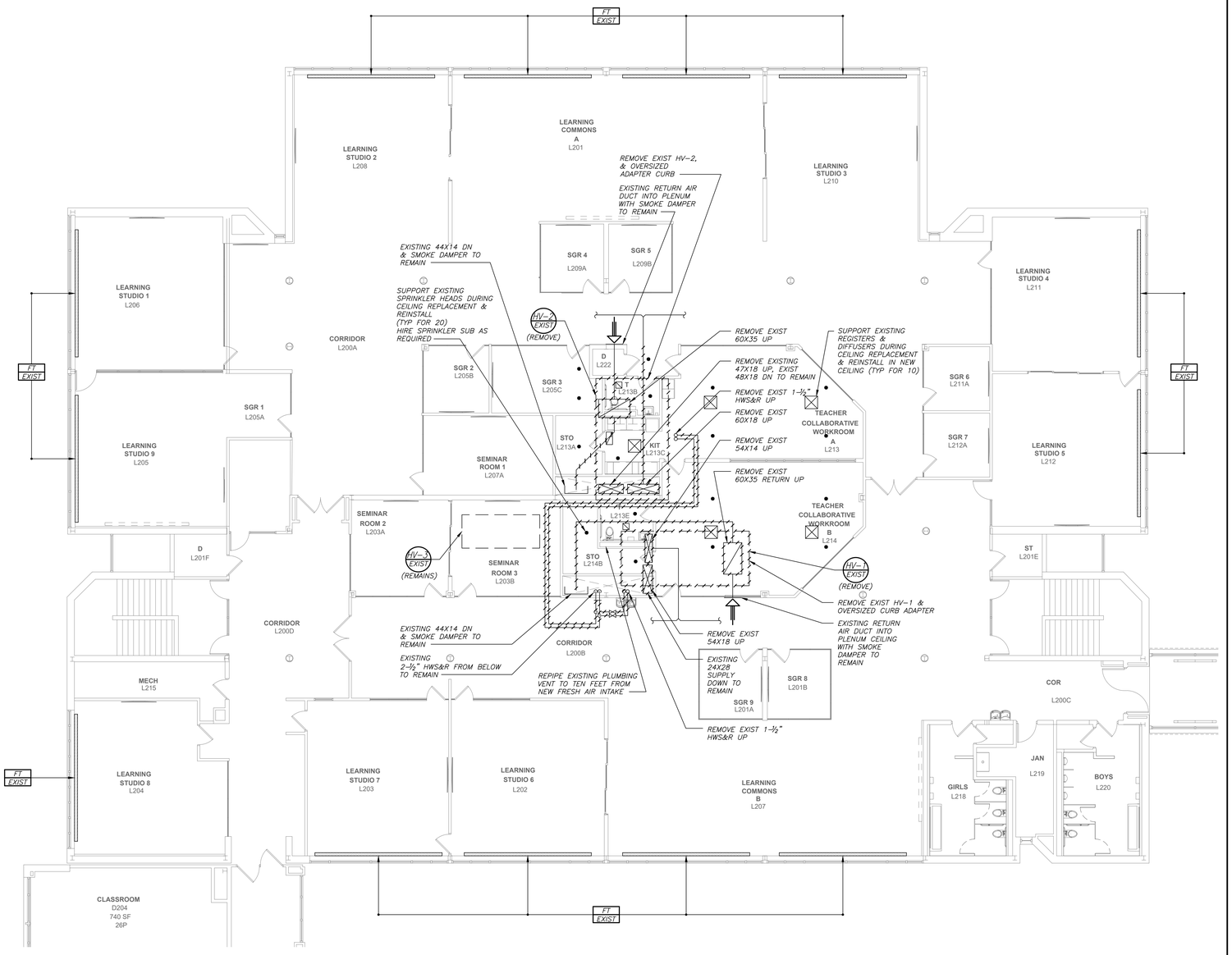
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No.	Date	Issue
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3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

HORACE GREELEY PART BUILDING "H" FLOOR PLAN

Job No. 2023-1028	Sheet Number H103-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



BUILDING "L" MAIN LEVEL PLAN (REMOVALS)

1/H104

0 8' 16'

1/8 inch=1 foot

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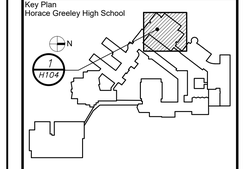
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285 MAIN STREET•MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

SED Control No.
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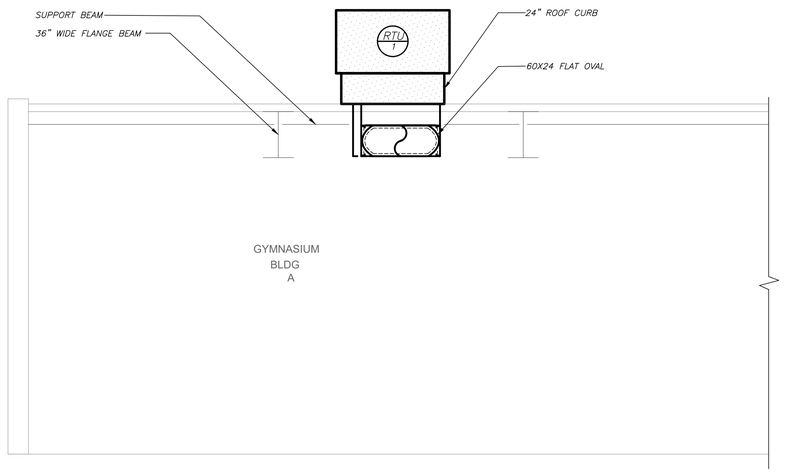
Professional Seal

No.	Date	Issue
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2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

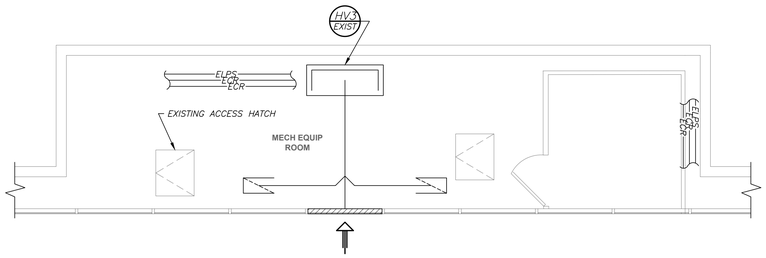
Sheet Title

HORACE GREELEY BUILDING "L" MAIN LEVEL PLAN

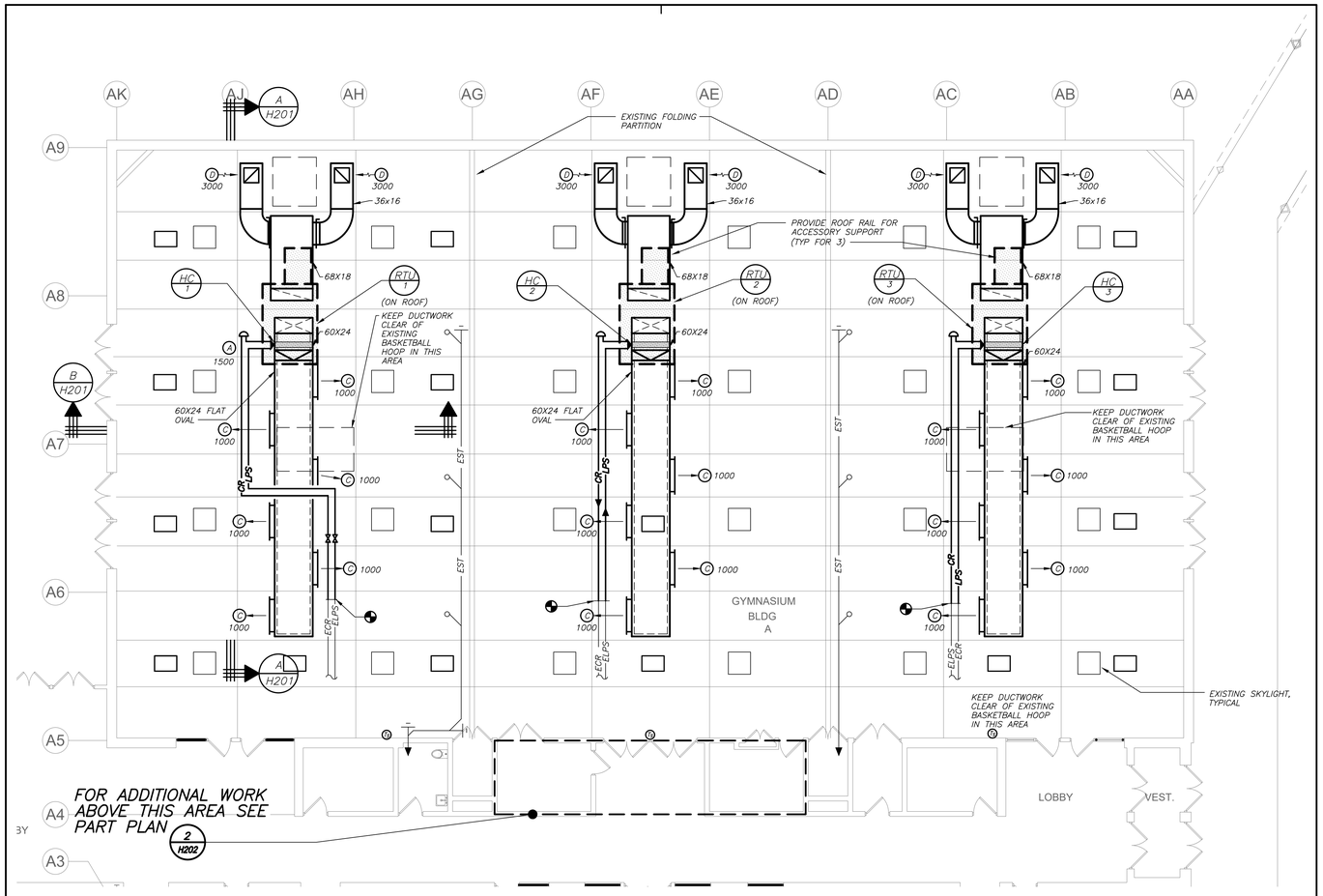
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Date 10/01/2024	
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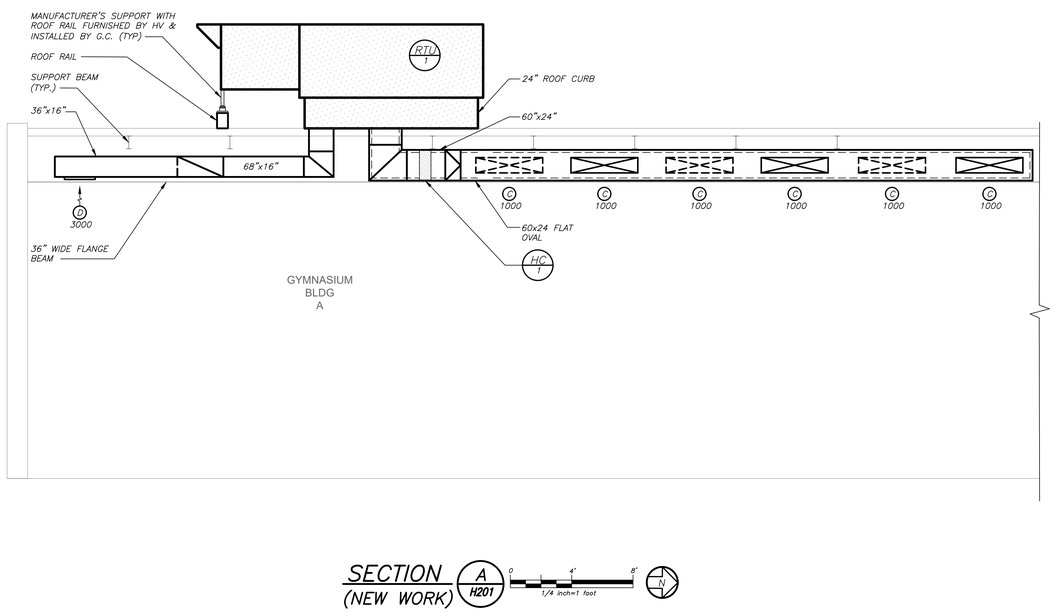
SECTION (NEW WORK) B H201 — 1/4 inch=1 foot



MECHANICAL PENTHOUSE PLAN (NEW WORK) 4 H201 — NO SCALE



BLDG "A" GYMNASIUM FLOOR PLAN (NEW WORK) 1 H201 — 1/8 inch=1 foot



SECTION (NEW WORK) A H201 — 1/4 inch=1 foot

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DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

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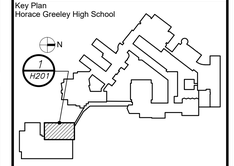
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CONSTRUCTION DOCUMENTS

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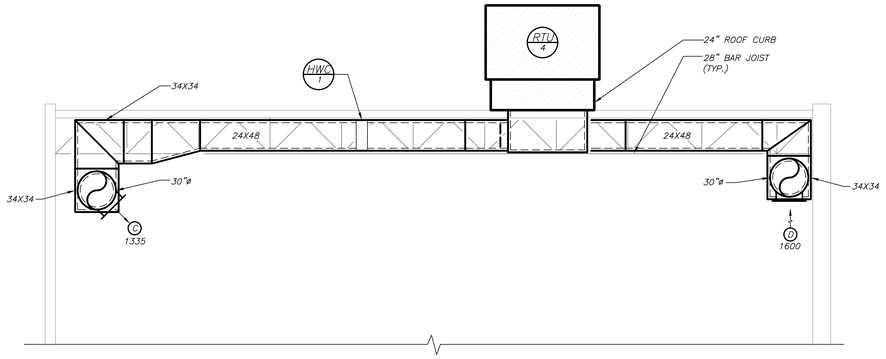
Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
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2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

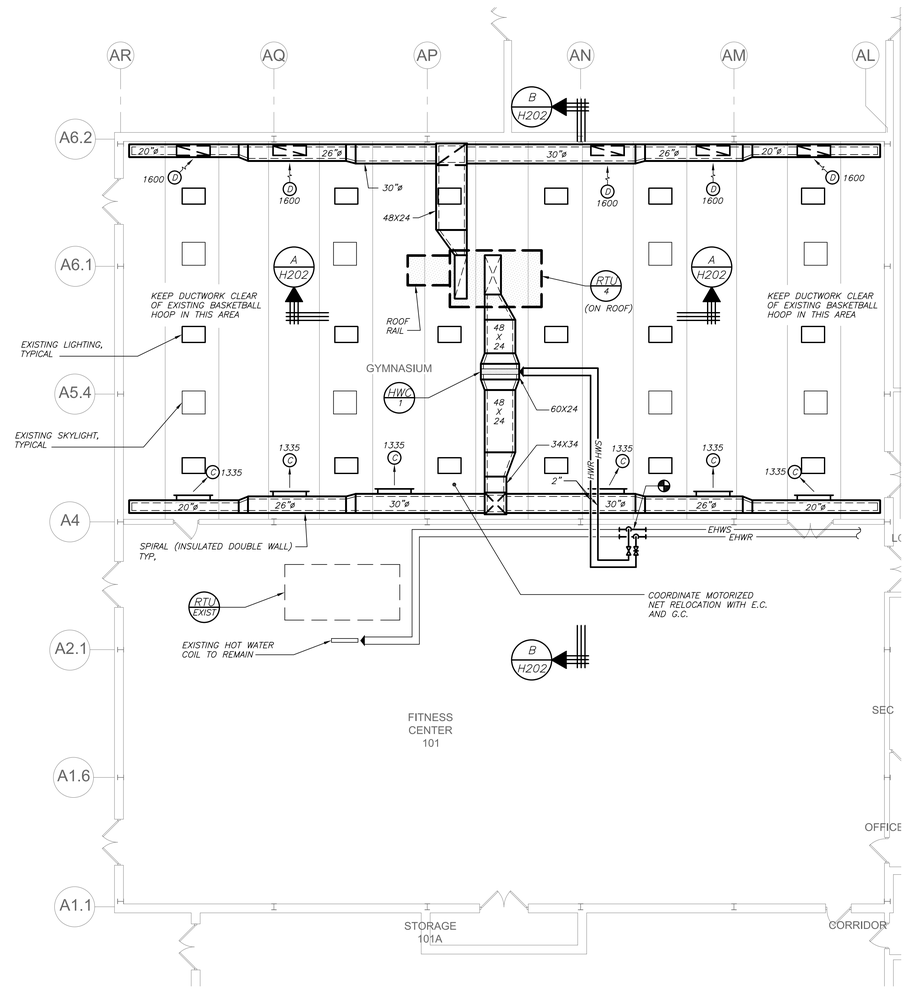
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HORACE GREELEY PART BUILDING "A" FLOOR PLAN

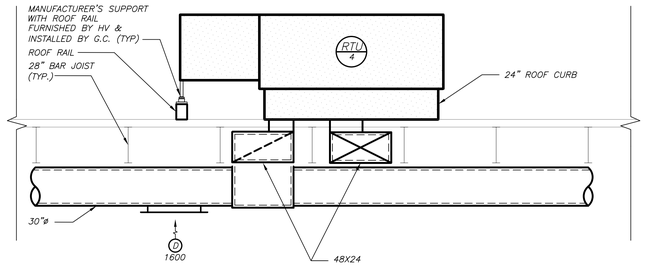
Job No. 2023-1028	Sheet Number H201-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



SECTION (NEW WORK) B H202 — 0, 4', 8' — 1/4 inch=1 foot



GYMNASIUM & FITNESS ROOMS FLOOR PLAN (NEW WORK) 1 H202 — 0, 8', 16' — 1/8 inch=1 foot



SECTION (NEW WORK) A H202 — 0, 4', 8' — 1/4 inch=1 foot

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DBE: TAB: H202 – Y:\CHAPPAQUA CSD\Chappaqua CSD – DW Capital Projects (2332.00)\Drawings\HVAC\HGHS\233200-H202-HGHS.dwg – DATE: Oct 02, 2024 – 5:59pm

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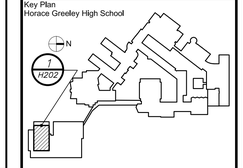
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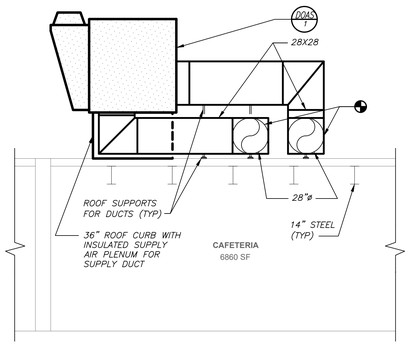
Professional Seal

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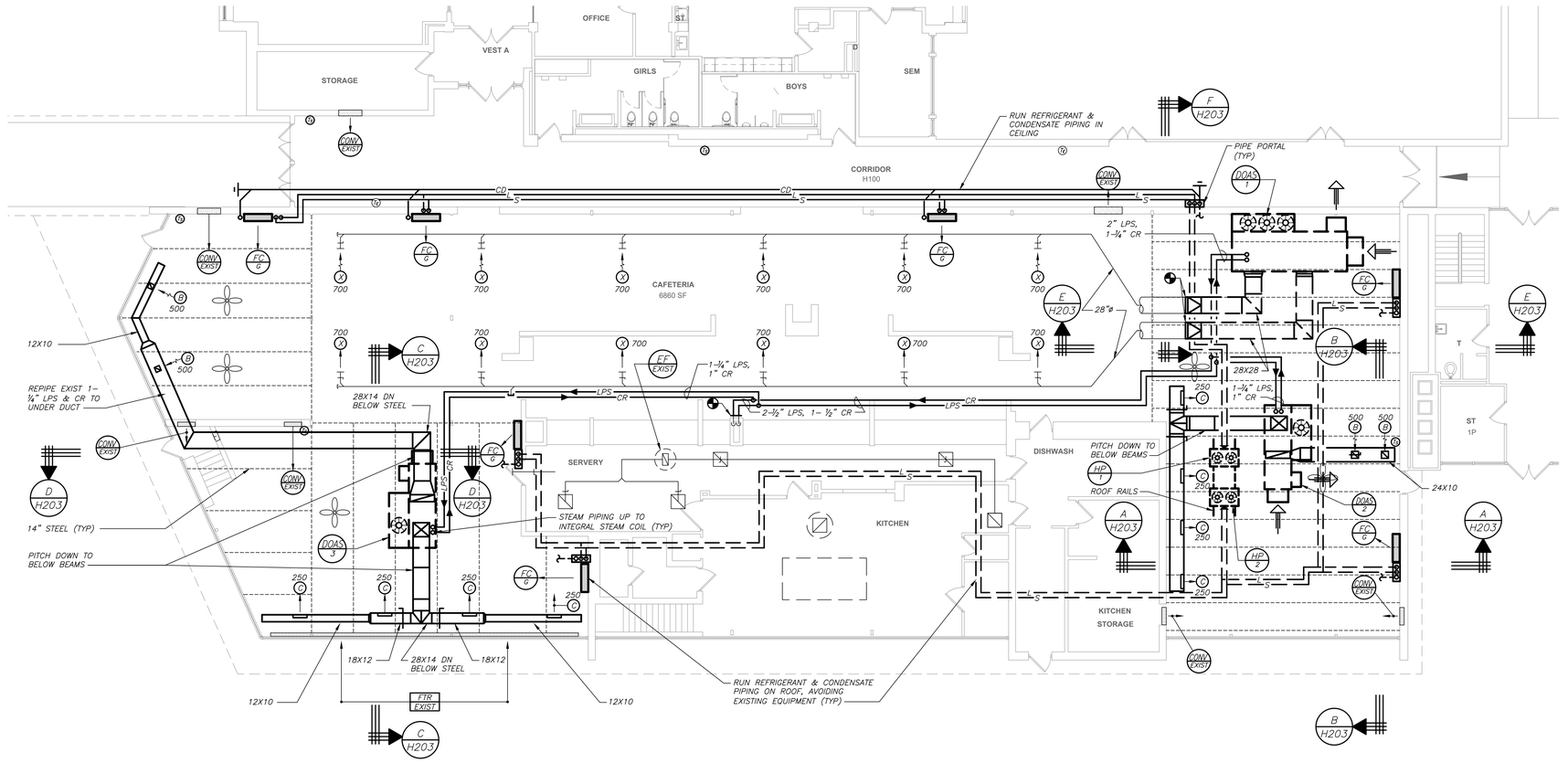
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HORACE GREELEY PART BUILDING "A" FLOOR PLAN

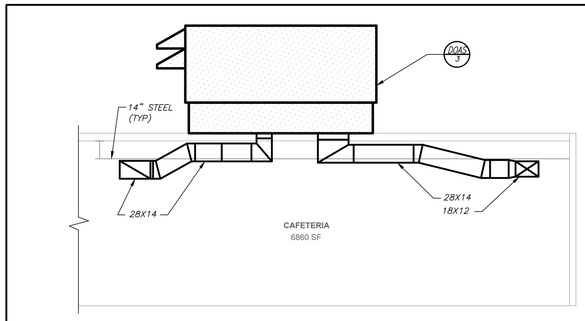
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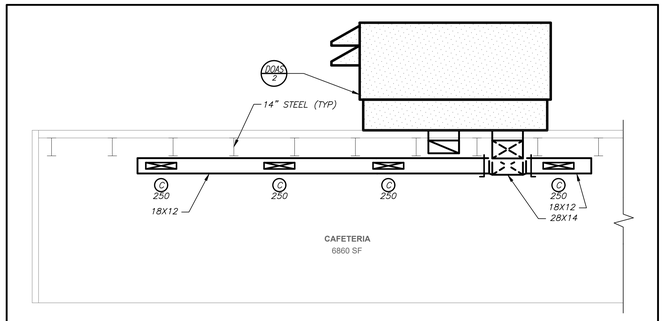
SECTION (NEW WORK) F H203 — 0, 4', 8' — 1/4 inch=1 foot



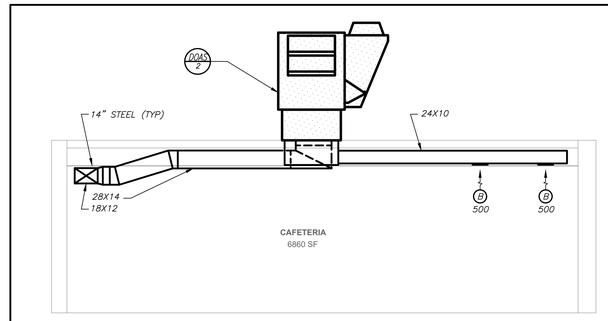
CAFETERIA FLOOR PLAN (NEW WORK) 1 H203 — 0, 8', 16' — 1/8 inch=1 foot



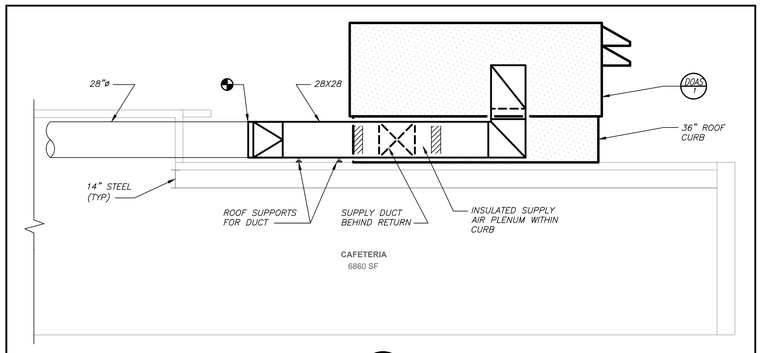
SECTION (NEW WORK) C H203 — 0, 4', 8' — 1/4 inch=1 foot



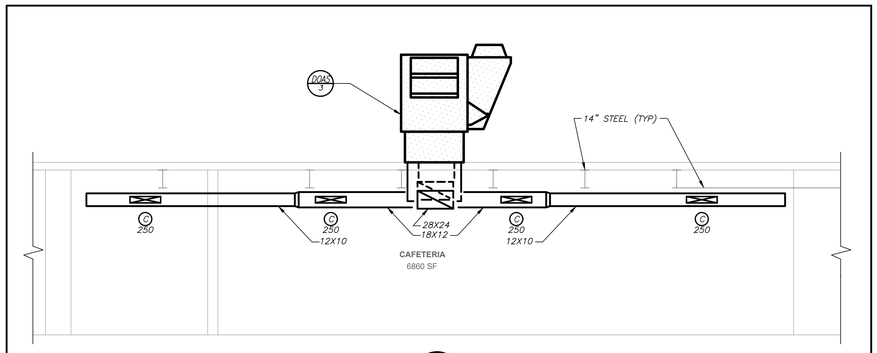
SECTION (NEW WORK) B H203 — 0, 4', 8' — 1/4 inch=1 foot



SECTION (NEW WORK) A H203 — 0, 4', 8' — 1/4 inch=1 foot



SECTION (NEW WORK) E H203 — 0, 4', 8' — 1/4 inch=1 foot



SECTION (NEW WORK) D H203 — 0, 4', 8' — 1/4 inch=1 foot

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DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

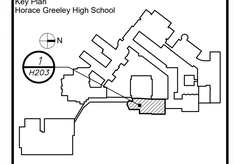
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CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
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Key Plan
Horace Greeley High School



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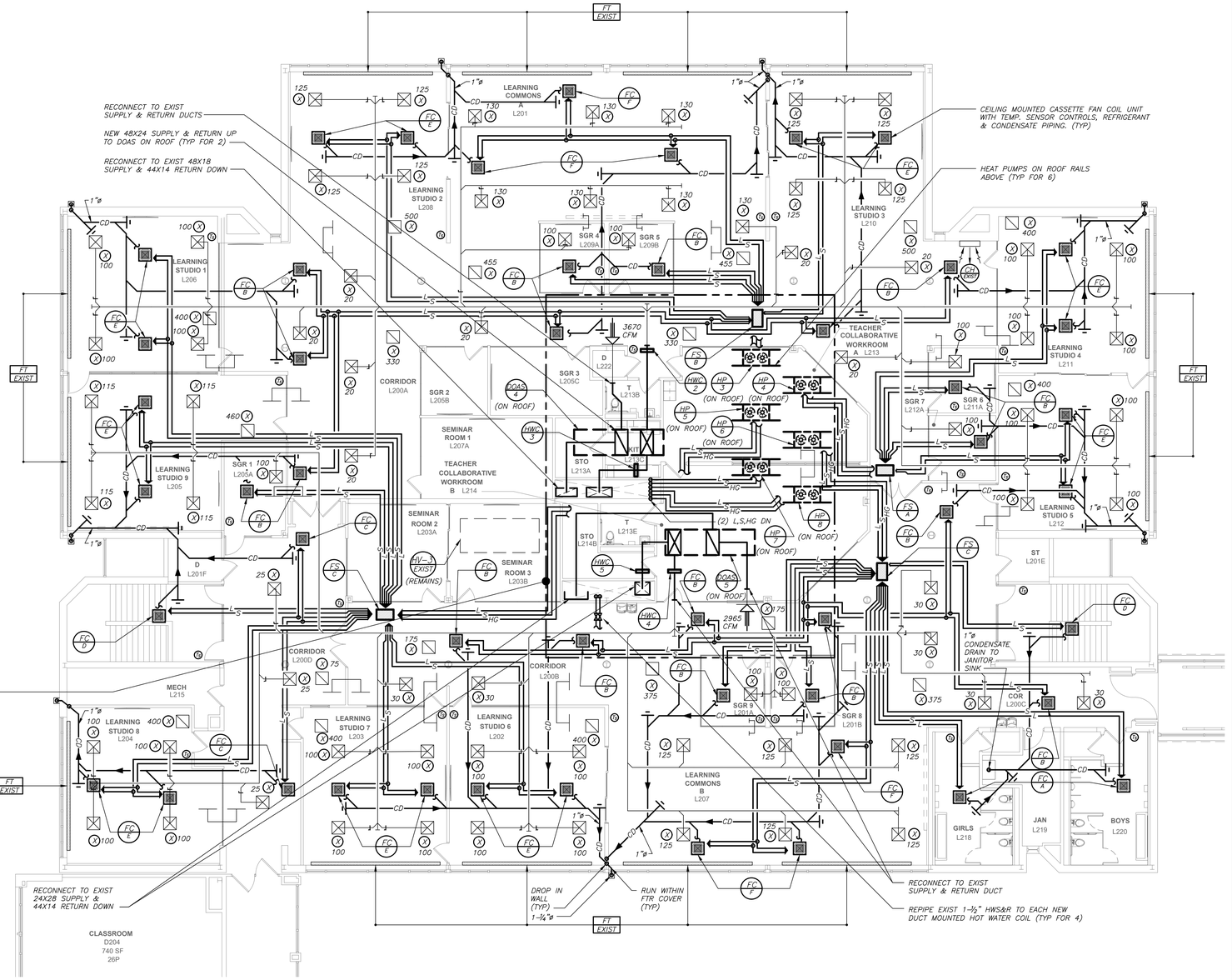
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No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

HORACE GREELEY PART BUILDING "H" FLOOR PLAN

Job No. 2023-1028	Sheet Number H203-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



BUILDING "L" MAIN LEVEL PLAN (NEW WORK)

1 H204 — 0, 8', 16' — 1/8 inch=1 foot

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Chappaqua, NY 10514

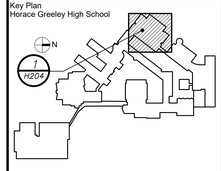
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CONSTRUCTION DOCUMENTS

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BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

Key Plan
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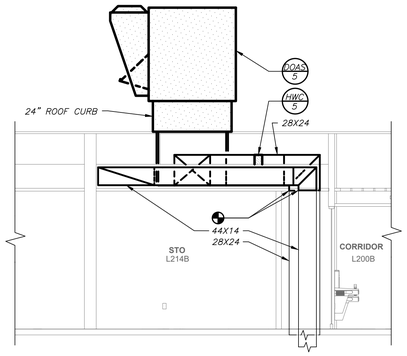
Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

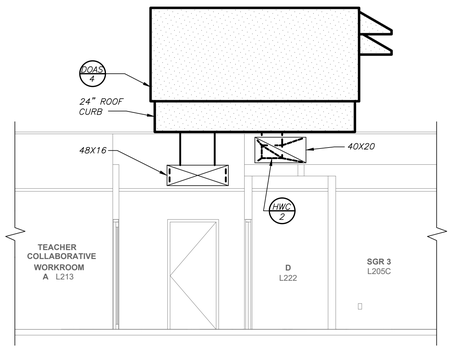
Sheet Title

HORACE GREELY BUILDING "L" MAIN LEVEL PLAN

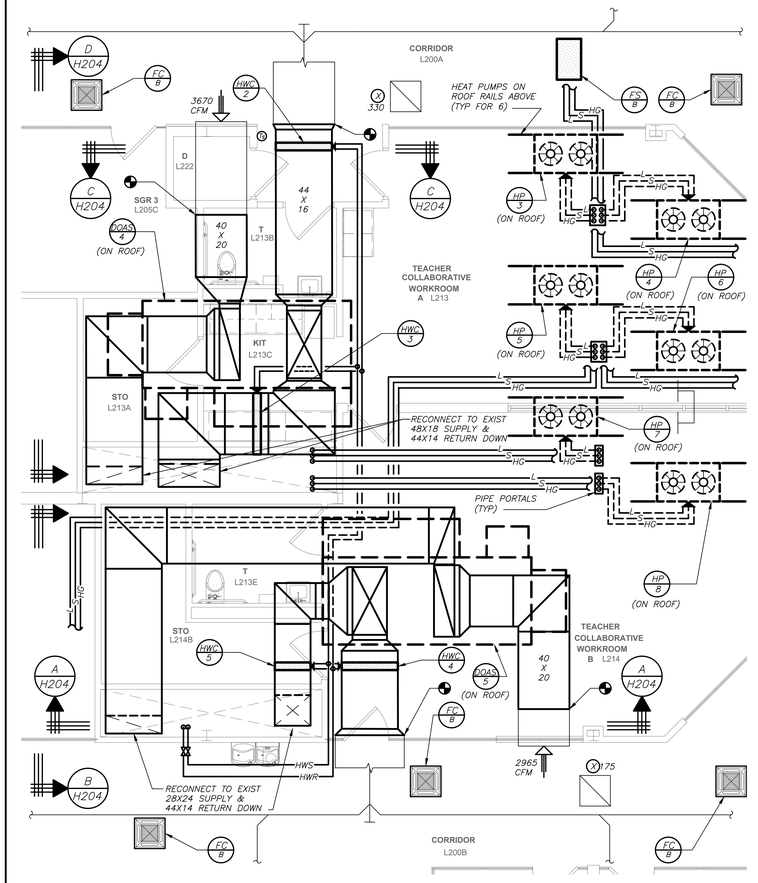
Job No. 2023-1028	Sheet Number H204-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



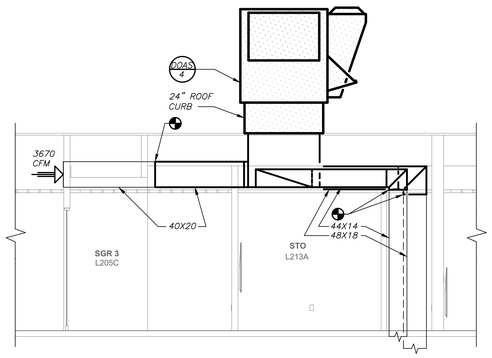
SECTION (NEW WORK) B H205 — 1/4 inch=1 foot



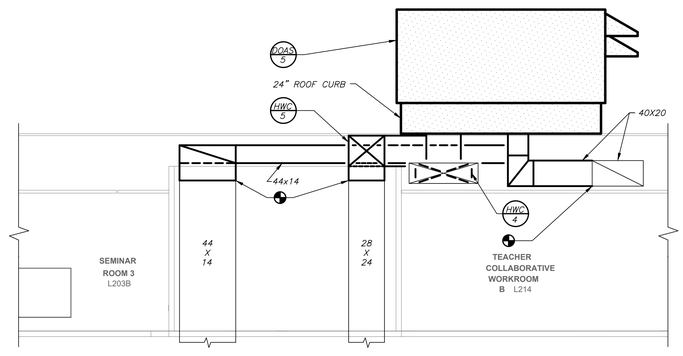
SECTION (NEW WORK) C H205 — 1/4 inch=1 foot



BUILDING "L" MAIN LEVEL PART PLAN (NEW WORK) 1 H205 — 1/4 inch=1 foot



SECTION (NEW WORK) D H205 — 1/4 inch=1 foot



SECTION (NEW WORK) A H205 — 1/4 inch=1 foot

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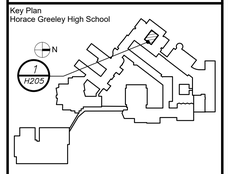
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CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

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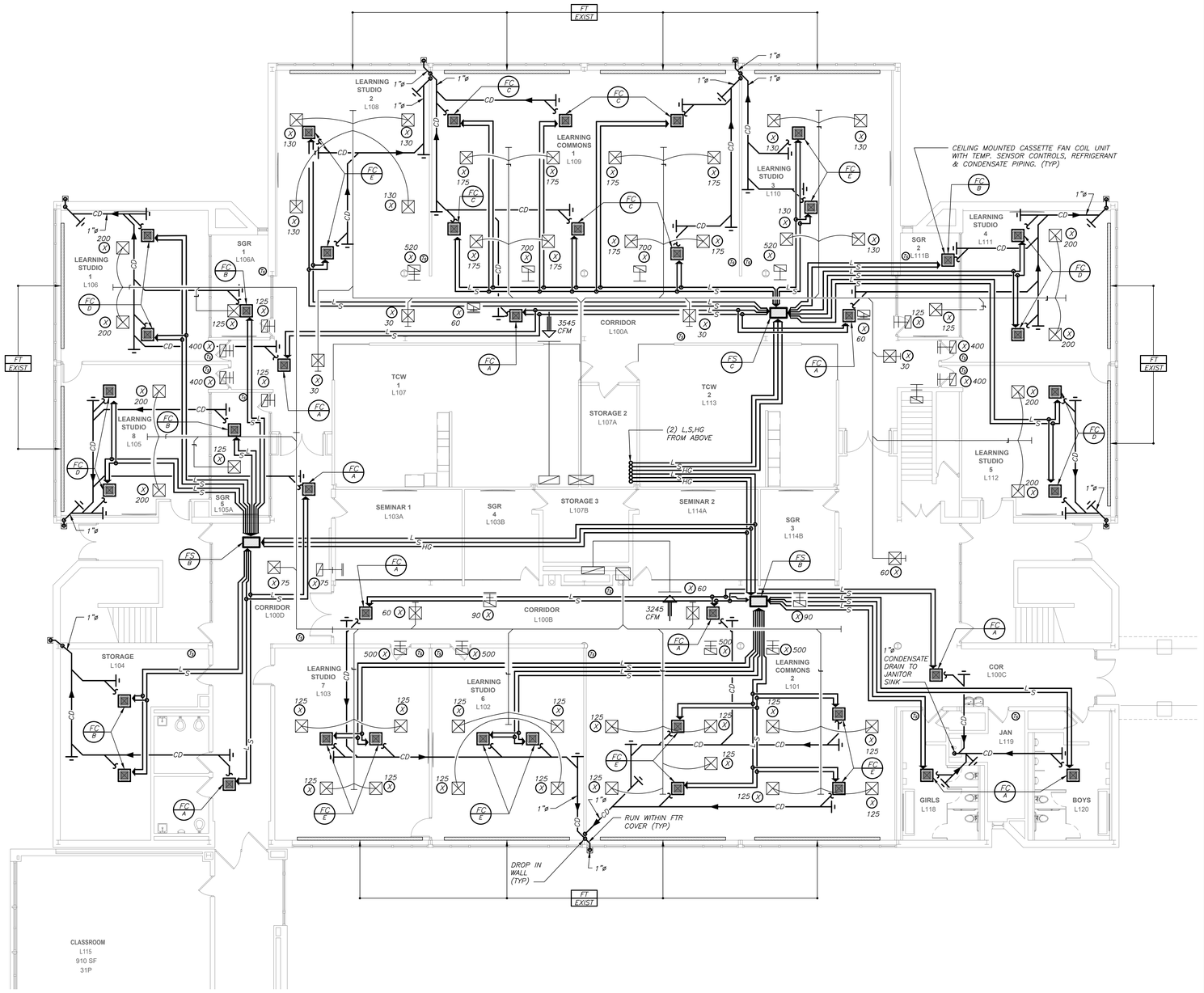
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No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
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2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

HORACE GREELY BUILDING "L" MAIN LEVEL PART PLAN

Job No. 2023-1028	Sheet Number H205-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



BUILDING "L" LOWER LEVEL PLAN (NEW WORK)

1/8 inch=1 foot

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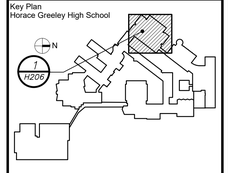
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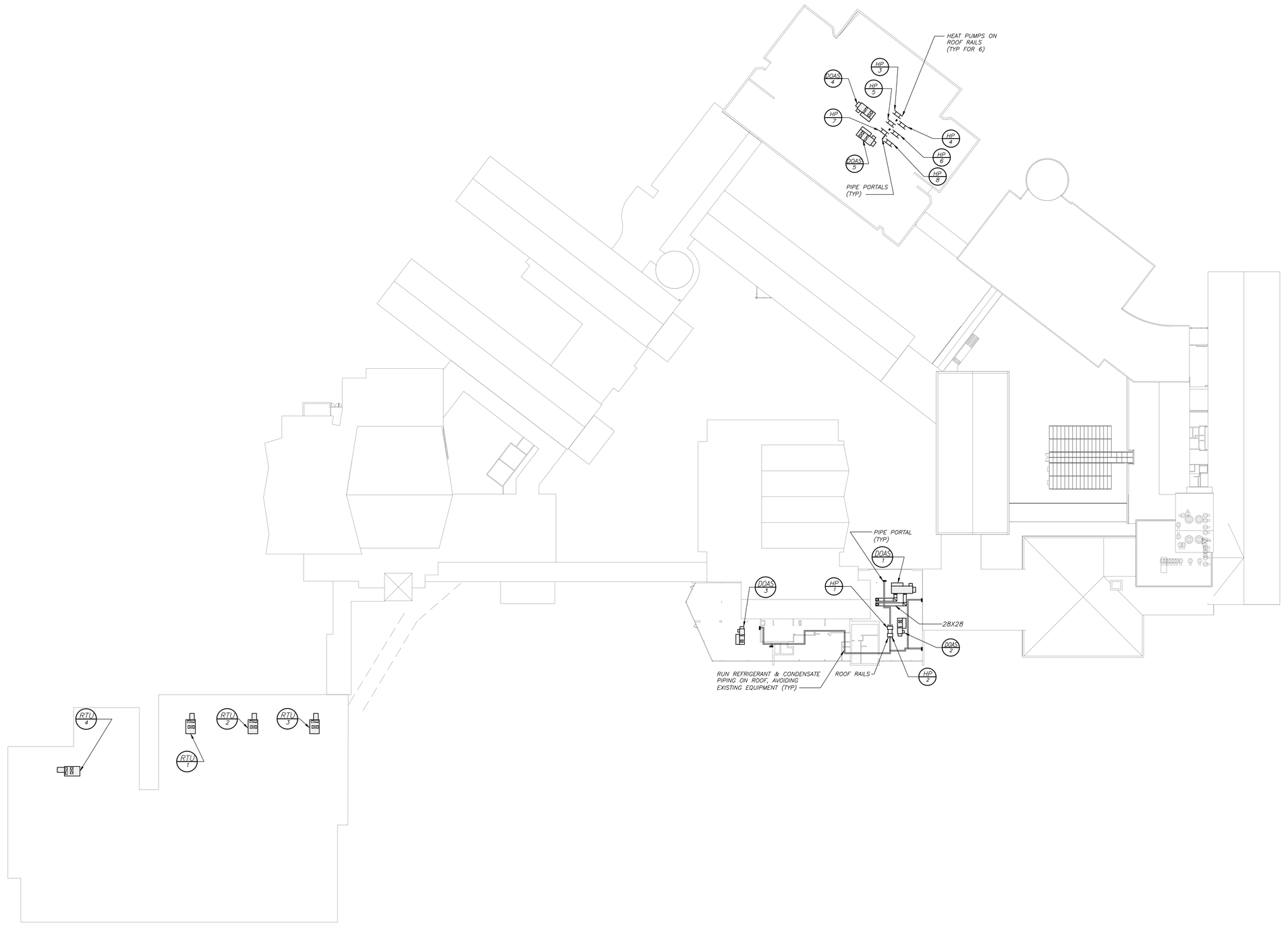
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Sheet Title
HORACE GREELEY BUILDING "L" LOWER LEVEL PLAN

Job No. 2023-1028
Date 10/01/2024
Scale AS NOTED
Drawn / Checked BGA/BGA
Sheet Number H206-HG



ROOF PLAN (NEW WORK) 1 / H207

0 32' 64'

1/32 inch=1 foot

N

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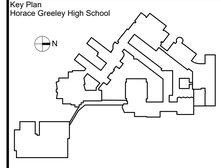
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1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

HORACE GREELEY ROOF PLAN

Job No. 2023-1028
Date 10/01/2024
Scale AS NOTED
Drawn / Checked BGA/BGA

Sheet Number

H207-HG

SCHEDULE OF DEDICATED OUTDOOR AIR UNITS

MARK	SERVICE	LOCATION	MODEL No. (1)	OA SUPPLY FAN					EXHAUST FAN					COOLING COIL DATA			HEATING COIL DATA			SEC. HEATING COIL DATA			ENERGY RECOVERY DATA						FILTERS		ELECTRICAL DATA			PHYSICAL DATA				REMARKS
				TYPE	CFM	E.S.P. IN. W.C.	RPM	HP	TYPE	CFM	E.S.P. IN. W.C.	RPM	HP	TOTAL COOLING CAPACITY (MBH)	E.A.T. °F (DB/WB)	L.A.T. °F (DB/WB)	TOTAL HEATING CAPACITY (MBH)	E.A.T. °F	L.A.T. °F	TOTAL HEATING CAPACITY (MBH)	E.A.T. °F	L.A.T. °F	O.A. CFM	E.A. CFM	L.A.T. SUMMER WB °F	L.A.T. SUMMER DB °F	L.A.T. WINTER WB °F	L.A.T. WINTER DB °F	PRE-FILTERS	FINAL FILTERS	VOLTAGE	MCA	MOCP	L (IN.)	W (IN.)	H (IN.)	WEIGHT (LBS)	
(OAU 1)	CAFETERIA	ROOF	ARDE-212-52D-17.5A-2-B2	PLENUM	5800	1.5	1717	10	PLENUM	5800	1.5	1621	7.5	192.7	82/68	56/56	110.9	49	67	150	49	105	5800	5800	82	67	49	41	2" MERV 8	4" MERV 13	208/3/60	127.0	175.0	224	98	77	5,200	REFER TO (1)(2)(3)(4)(5)(6)(8)(9)
(OAU 2)	CAFETERIA	ROOF	ARDE-112-30D-5A-2-A2	PLENUM	1050	1.5	1377	1	PLENUM	1000	1.5	1375	1	59.6	80/66	44/44	43.7	55	94	44	55	130	1050	1050	79	66	55	45	2" MERV 8	4" MERV 13	208/3/60	37.7	50.0	172	86	66	3,100	REFER TO (1)(2)(3)(4)(5)(6)(7)(9)
(OAU 3)	CAFETERIA	ROOF	ARDE-212-30D-5A-2-A2	PLENUM	1050	1.5	1377	1	PLENUM	1000	1.5	1375	1	59.6	80/66	44/44	43.7	55	94	44	55	130	1050	1050	79	66	55	45	2" MERV 8	4" MERV 13	208/3/60	37.7	50.0	172	86	66	3,100	REFER TO (1)(2)(3)(4)(5)(6)(7)(9)
(OAU 4)	L-BLDG	ROOF	ARDE-212-58D-25A-0-A2	PLENUM	7215	1.5	1913	10	PLENUM	7215	1.5	1871	10	293.2	82/68	54/54	162.3	48.5	70	(HWC 3)(HWC 4)	REFER TO SCHEDULE OF HOT WATER COILS		7215	7215	82	67	49	40	2" MERV 8	4" MERV 13	208/3/60	166.1	200.0	190	98	77	5,100	REFER TO (1)(2)(3)(4)(5)(6)(7)(10)
(OAU 5)	L-BLDG	ROOF	ARDE-212-52D-20A-0-A2	PLENUM	6200	1.5	1791	10	PLENUM	6200	1.5	1689	7.5	250.8	82/68	54/54	141.2	48	70	(HWC 4)(HWC 5)	REFER TO SCHEDULE OF HOT WATER COILS		6200	6200	82	67	48	40	2" MERV 8	4" MERV 13	208/3/60	143.7	175.0	190	98	77	5,000	REFER TO (1)(2)(3)(4)(5)(6)(7)(10)

NOTES
1. AS MANUFACTURED BY "LG". (KLIMA NEW YORK 914 255-4390)
2. FROST CONTROL BY V.F.D.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S SUPERVISION FOR FIELD INSTALLATION AND START-UP.
4. REFRIGERANT R-410A.
5. PROVIDE PACKAGED OUTDOOR DOAS UNIT WITH WITH STAGED DIRECT EXPANSION HEATING AND COOLING, SINGLE POINT POWER CONNECTION, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY WHEEL, DIRTY FILTER CONTACTS, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, PHASE PROTECTION, CONVENIENCE OUTLET, FILTERS (AS NOTED), DIRECT EXPANSION COIL FOR HEAT PUMP DUTY, HOT GAS REHEAT, STAINLESS STEEL DRAIN PAN, HINGED ACCESS PANELS, BACNET COMPATIBLE AUTOMATED CONTROLS. PROVIDE FULL ECONOMIZER AND DUAL ENTHALPY HUMIDITY SENSORS.
6. INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.
7. FURNISH 24" HIGH ROOF CURB FOR GC INSTALLATION.
8. FURNISH 36" HIGH ROOF CURB FOR GC INSTALLATION.
9. PROVIDE INTEGRAL STEAM HEATING COILS.
10. PROVIDE DUCT MOUNTED HOT WATER HEATING COILS.

SCHEDULE OF PACKAGED ROOFTOP UNITS

MARK	SERVICE	LOCATION	MODEL No. (1)	SUPPLY FAN DATA				RET DATA		HEATING COIL DATA		DX COOLING DATA						FILTER	ENERGY RECOVERY ACCESSORY DATA					ELECTRICAL DATA			PHYSICAL DATA	REMARKS
				CFM	MOTOR HP	RPM	E.S.P. IN WG	CFM	E.S.P. IN WG			TOTAL COOLING CAP. (MBH)	SENS. COOLING CAP. (MBH)	ENT. TEMP. (DB°F/WB°F)	LVG. TEMP. (DB°F/WB°F)	EER	IEER	COMP. QTY	TYPE	MODEL No. (1)	OA CFM	HP	EXH CFM	HP	MCA	MOP	ELECTRICAL SERVICE	LxHxW(in.)/WGT (lbs)	
(RTU 1)	SOUTHERN MAIN GYM	ROOF	LV15C0CP4S1CGTLBH1	6000	3.0	935	1.25	6000	1.25	(HC 1)	REFER TO SCHEDULE OF STEAM COILS	170.9	137.5	77/64	57/54	11.1	14.20	2	2" MERV 13	VP022A16L4ALB1	2000	1.5	2000	3	40.1+9.4	50+12	480/3/60	206x50x89/2,803	REFER TO (2)(3)(4)(6)(7)(8)(9)
(RTU 2)	CENTRAL MAIN GYM	ROOF	LV15C0CP4S1CGTLBH1	6000	3.0	935	1.25	6000	1.25	(HC 2)	REFER TO SCHEDULE OF STEAM COILS	170.9	137.5	77/64	57/54	11.1	14.20	2	2" MERV 13	VP022A16L4ALB1	2000	1.5	2000	3	45.3+9.4	50+12	480/3/60	220x51x89/3,150	REFER TO (2)(3)(4)(6)(7)(8)(9)
(RTU 3)	NORTHERN MAIN GYM	ROOF	LV15C0CP4S1CGTLBH1	6000	3.0	935	1.25	6000	1.25	(HC 3)	REFER TO SCHEDULE OF STEAM COILS	170.9	137.5	77/64	57/54	11.1	14.20	2	2" MERV 13	VP022A16L4ALB1	2000	1.5	2000	3	45.3+9.4	50+12	480/3/60	220x51x89/3,150	REFER TO (2)(3)(4)(6)(7)(8)(9)
(RTU 4)	GYMNASIUM	ROOF	LV20C0DP4E1CBTLBH1	8000	7.5	1082	1.25	8000	1.25	(HWC 1)	REFER TO SCHEDULE OF HOT WATER COILS	242.7	170.9	77/64	58/55	11.0	14.20	2	2" MERV 13	VP036A16L4ALB1	2800	2	2800	3	63.1+9.6	80+15	480/3/60	228x50x89/3,195	REFER TO (2)(3)(4)(5)(7)(8)(9)

NOTES
1. AS MANUFACTURED BY "TEMPMASTER".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. DESIGN AIR CONDITIONS: SUMMER: OA (95°F/75°F) RA (75°F/63°F); WINTER: OA (10°F) RA (70°F).
4. PROVIDE AIR CONDITIONER TYPE PACKAGED ROOFTOP UNIT WITH STAGED COOLING AND HEATING, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, MODULATING HOT GAS REHEAT, DIRTY FILTER CONTACTS, HIGH STATIC BELT DRIVE BLOWER, DISCONNECT SWITCH, INTEGRAL VFD'S, ENERGY RECOVERY VENTILATOR ACCESSORY, DEMAND CONTROL VENTILATION, POWERED CONVENIENCE OUTLET, PHASE PROTECTION, DRAIN PANS, HINGED ACCESS PANELS, AND BACNET COMPARABLE AUTOMATED CONTROLS.
5. PROVIDE DUCT MOUNTED HOT WATER COIL
6. PROVIDE DUCT MOUNTED STEAM COIL
7. FURNISH 24" HIGH ROOF CURB FOR GC INSTALLATION.
8. PROVIDE ENERGY RECOVERY VENTILATOR ACCESSORY WITH ENTHALPY WHEEL (AS NOTED), LOW AMBIENT KIT, MOTORIZED DAMPERS, AND PRESSURE SENSOR. ENERGY RECOVERY VENTILATOR ACCESSORY REQUIRES SEPARATE POWER CONNECTION.
9. INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF DUCT MOUNTED HOT WATER HEATING COILS

MARK	SERVICE	HTG. CAPACITY BTU/HR	E.A.T. (°F)	L.A.T. (°F)	E.W.T. (°F)	L.W.T. (°F)	GPM	CFM	COIL FACE AREA SQ.FT.	COIL FACE VELOC.FPM	ROWS	REMARKS
(HWC 1)	(RTU 1)	277,300	65	97	180	160	28.4	8000	10.0	800	2	REFER TO (1)(2)(3)(5)(6)(7)(8)
(HWC 2)	(OAU 4)	138,500	50	85	180	160	14.2	3670	5.04	728	1	REFER TO (1)(2)(3)(4)(5)(6)(7)(8)
(HWC 3)	(OAU 4)	132,100	50	85	180	160	13.5	3545	6.00	591	1	REFER TO (1)(2)(3)(4)(5)(6)(7)(8)
(HWC 4)	(OAU 5)	113,400	50	85	180	160	11.6	2965	5.04	588	1	REFER TO (1)(2)(3)(4)(5)(6)(7)(8)
(HWC 5)	(OAU 5)	124,900	50	85	180	160	12.8	3245	4.67	695	1	REFER TO (1)(2)(3)(4)(5)(6)(7)(8)

NOTES
1. AS MANUFACTURED BY "NATIONWIDE COILS INC."
2. AIR PRESSURE DROP ACROSS COIL SHALL NOT EXCEED 0.30" S.P.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. COIL SHALL BE MAXIMUM 2 ROWS WITH MINIMUM OF 6 FINS PER INCH.
5. 5/8" TUBE AND ALUMINUM FINS.
6. GALVANIZED PITCHED CASING.
7. THE WATER COIL IS SIZED TO HANDLE OUTDOOR AIR QUANTITIES AT 100 PERCENT (WITH ENERGY RECOVERY UNIT IN OPERATION) OF OCCUPANCY. WITHOUT HAVING TO RESORT TO CLOSING OUTDOOR AIR INTAKE DAMPERS ON A "DESIGN HEATING DAY" TO PREVENT FREEZE-UP.
8. BASED ON ENTERING/LEAVING WATER TEMPERATURES HW 180/160°.

SCHEDULE OF REGISTERS AND DIFFUSERS

MARK	TYPE	SERVICE	MODEL No. (1)	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	REMARKS
A	CEILING DIFFUSER	SUPPLY	SCD	4-WAY	OPPOSED BLADE	PER ARCH.	REFER TO (2)(4)(5)
B	SIDEWALL REGISTER	RETURN	635	–	↓	↓	REFER TO (2)(3)(6)
C	SIDEWALL REGISTER	SUPPLY	625	1-WAY	↓	↓	REFER TO (2)(4)(5)

NOTES
1. AS MANUFACTURED BY "PRICE".
2. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE CABLE OPERATED DAMPERS IN UN-ACCESSIBLE AREAS.
4. PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES, AND DIMENSIONS WITH ARCHITECT.

5. SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 500 fpm)

50 TO 99	100 TO 299	300 TO 499	500 TO 799	800 TO 1199	1200 TO 1499	1500 TO 1999
6x6	9x9	12x12	15x15	18x18	21X21	24X24

6. RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)

50 TO 149	150 TO 249	250 TO 399	400 TO 599	600 TO 799	800 TO 1099	1100 TO 1199	1200 TO 2399
6x6	8X8	10X10	12X12	14X14	16X16	18X18	24X24

SCHEDULE OF VRF FLOW SELECTOR UNITS

MARK	MODEL No. (1)	CAPACITY DATA (BTU/HR) UNIT	PORTS	EACH PORT	MCA	ELECTRIC SERVICE	PHYSICAL DATA LxWxH (IN)	WEIGHT (LBS)	REMARKS
(FS A)	PRHR043A	230,000	4	60,000	0.17	208/1/60	19X19X9	40	REFER TO (2)(3)(4)
(FS B)	PRHR063A	230,000	6	60,000	0.27	↓	31X19X9	60	REFER TO (2)(3)(4)
(FS C)	PRHR083A	230,000	8	60,000	0.27	↓	31X19X9	68	REFER TO (2)(3)(4)

NOTES
1. AS MANUFACTURED BY "LG." (KLIMA NEW YORK 914 255-4390)
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. REFRIGERANT R-410A.
4. PROVIDE MOUNTING HARDWARE. MOUNT UNIT HORIZONTALLY.

SCHEDULE OF VRF DUCTLESS AIR SOURCE HEAT RECOVERY OUTDOOR UNITS

MARK	SERVICE	LOCATION	MODEL No. (1)	CAPACITY: COOLING CAPACITY BTU/HR	CAPACITY: HEATING CAPACITY BTU/HR	PHYSICAL DATA: DxWxH (IN)	PHYSICAL DATA: WEIGHT (LBS)	ELECTRICAL INFORMATION: V/PH/HZ	ELECTRICAL INFORMATION: MCA	ELECTRICAL INFORMATION: MOCP	EER	COP	REMARKS
(HP 1)	CAFETERIA VRF SYSTEM	ROOF	MULTI V5 ARUM121 BTE5	119,700	135,000	30x49x67	507	208/3/60	30.9	40	10.1	3.97	REFER TO (2)(3)(4)(5)(6)(7)
(HP 2)	CAFETERIA VRF SYSTEM	ROOF	MULTI V5 ARUM144 BTE5	144,000	162,000	30x49x67	639	208/3/60	51.1	70	10.5	3.84	REFER TO (2)(3)(4)(5)(6)(7)
(HP 3)	L-BUILDING MAIN FLOOR	ROOF	MULTI V5 ARUM192 BTE5	192,000	216,000	30x49x67	659	208/3/60	57.9	80	12.4	3.75	REFER TO (2)(3)(4)(5)(6)(7)
(HP 4)	L-BUILDING MAIN FLOOR	ROOF	MULTI V5 ARUM096 BTE5	96,000	108,000	30x49x67	507	208/3/60	28.5	40	14.4	4.33	REFER TO (2)(3)(4)(5)(6)(7)
(HP 5)	L-BUILDING MAIN FLOOR	ROOF	MULTI V5 ARUM144 BTE5	144,000	162,000	30x49x67	639	208/3/60	51.1	70	12.1	3.52	REFER TO (2)(3)(4)(5)(6)(7)
(HP 6)	L-BUILDING MAIN FLOOR	ROOF	MULTI V5 ARUM192 BTE5	192,000	216,000	30x49x67	659	208/3/60	57.9	80	12.4	3.75	REFER TO (2)(3)(4)(5)(6)(7)
(HP 7)	L-BUILDING FIRST FLOOR	ROOF	MULTI V5 ARUM192 BTE5	192,000	216,000	30x49x67	659	208/3/60	57.9	80	12.4	3.75	REFER TO (2)(3)(4)(5)(6)(7)
(HP 8)	L-BUILDING FIRST FLOOR	ROOF	MULTI V5 ARUM241 BTE5	233,000	243,000	30x49x67	666	208/3/60	63.2	80	10.4	3.35	REFER TO (2)(3)(4)(5)(6)(7)

NOTES
1. AS MANUFACTURED BY "LG.".
2. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.
3. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.
5. PROVIDE PROGRAMMABLE THERMOSTAT, LOW AMBIENT CONTROL, HARD START, CRANKCASE HEATER, DISCONNECT SWITCH. THE VRF SYSTEM SHALL BE. ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.
6. FURNISH RAILS FOR GC INSTALLATION.
7. INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF VRF HEAT RECOVERY INDOOR UNITS

MARK	LOCATION	MODEL No. (1)	INDOOR AIR HANDLER INFORMATION: SUPPLY FAN DATA: HIGH CFM	MOTOR (AMPS)	ELECTRIC SERVICE	COOLING COIL DATA (5): TOTAL CAP. BTU/HR	SENSIBLE CAP. BTU/HR	ENT. AIR TEMP. DB/WB	HEATING: TOTAL CAP. BTU/HR	ENT. AIR TEMP.	REMARKS
(FC A)	CEILING	ARNU053TRD4	265	0.25	208/1/60	5,500	3,900	80 / 67	6,100	70	REFER TO (2)(3)(4)(6)(7)
(FC B)	↓	ARNU073TRD4	265	0.25	↓	7,500	5,400	↓	8,500	↓	REFER TO (2)(3)(4)(6)(7)
(FC C)	↓	ARNU093TRD4	283	0.25	↓	9,600	6,900	↓	10,900	↓	REFER TO (2)(3)(4)(6)(7)
(FC D)	↓	ARNU123TRD4	307	0.25	↓	12,300	8,900	↓	13,600	↓	REFER TO (2)(3)(4)(6)(7)
(FC E)	↓	ARNU153TQD4	388	0.25	↓	15,400	11,100	↓	17,100	↓	REFER TO (2)(3)(4)(6)(7)
(FC F)	↓	ARNU183TQD4	396	0.25	↓	19,100	13,800	↓	21,500	↓	REFER TO (2)(3)(4)(6)(7)
(FC G)	WALL	ARNU363SVA4	918	1.02	↓	35,500	25,900	↓	37,000	↓	REFER TO (2)(3)(5)(6)(7)

NOTES
1. AS MANUFACTURED BY "LG."
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.
4. PROVIDE FACTORY MOUNTED INTEGRAL CONDENSATE PUMP, CHECK VALVE, ANTI SWEAT SLEEVE AND AUTO SHUTDOWN OVERFLOW SWITCH.
5. PROVIDE IN-LINE CONDENSATE PUMP WITH ASSOCIATED PIPING COVER KIT. LITTLE GIANT MODEL EC-1K-DV (120V/18WATTS). CHECK VALVE, ANTI SWEAT SLEEVE AND AUTO SHUTDOWN OVERFLOW SWITCH.
6. PROVIDE MOUNTING HARDWARE, VIBRATION ISOLATORS, AND DISCONNECT.
7. THE VRF SYSTEM SHALL BE INTEGRATED WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.

SCHEDULE OF DUCT MOUNTED STEAM HEATING COILS

MARK	SERVICE	HEATING CAP. BTU/HR	ENT. AIR TEMP. (°F)	LVG. AIR TEMP. (°F)	CFM	COIL FACE AREA SQ. FT.	COIL FACE VELOCITY FPM	ROWS	FINS PER INCH	AIR PRESSURE DROP (IN H_2O)	STEAM PRESSURE (PSIG)	SUPPLY CONNECTION (IN)	RETURN CONNECTION (IN)	REMARKS
(HC 1)	(RTU 1)	195,500	65	95	6000	10	600	1	7	0.13	2.0	2.5	1	REFER TO (1)(2)
(HC 2)	(RTU 2)	195,500	65	95	6000	10	600	1	7	0.13	2.0	2.5	1	REFER TO (1)(2)
(HC 3)	(RTU 3)	195,500	65	95	6000	10	600	1	7	0.13	2.0	2.5	1	REFER TO (1)(2)

NOTES
1. AS MANUFACTURED BY "NATIONWIDE COILS."
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

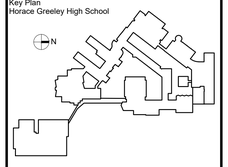
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KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

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Key Plan
Horace Greeley High School



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Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title
HORACE GREELEY SCHEDULES

Job No. 2023-1028
Date 10/01/2024
Scale AS NOTED
Drawn / Checked BGA/BGA
Sheet Number H301-HG

SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

		A	B	C	D	E	F	G	H	I	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000 SQ.FT.)	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A×B)÷1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
GYMNASIUM BLDG A SOUTH PARTITION (PLAY AREA)	GYM, SPORTS ARENA (PLAY AREA)	3500	7	20	0.18	0.5	25	1130	0.8	1413	1750
GYMNASIUM BLDG A SOUTH PARTITION (SPECTATOR AREA)	SPECTATOR AREAS	500	150	7.5	0.06	0	75	593	0.8	741	0
GYMNASIUM BLDG A CENTRAL PARTITION (PLAY AREA)	GYM, SPORTS ARENA (PLAY AREA)	3500	7	20	0.18	0.5	25	1130	0.8	1413	1750
GYMNASIUM BLDG A CENTRAL PARTITION (SPECTATOR AREA)	SPECTATOR AREAS	500	150	7.5	0.06	0	75	593	0.8	741	0
GYMNASIUM BLDG A NORTH PARTITION (PLAY AREA)	GYM, SPORTS ARENA (PLAY AREA)	3500	7	20	0.18	0.5	25	1130	0.8	1413	1750
GYMNASIUM BLDG A NORTH PARTITION (SPECTATOR AREA)	SPECTATOR AREAS	500	150	7.5	0.06	0	75	593	0.8	741	0
GYMNASIUM (PLAY AREA)	GYM, SPORTS ARENA (PLAY AREA)	4800	7	20	0.18	0.5	34	1544	0.8	1930	2400
GYMNASIUM (SPECTATOR AREA)	SPECTATOR AREAS	200	150	7.5	0.06	0	30	237	0.8	296	0
CAFETERIA A	CAFETERIA/FAST-FOOD DINING	2200	100	7.5	0.18	0	220	2046	0.8	2558	0
CAFETERIA B	CAFETERIA/FAST-FOOD DINING	3600	100	7.5	0.18	0	360	3348	0.8	4185	0
CAFETERIA C	CAFETERIA/FAST-FOOD DINING	2100	100	7.5	0.18	0	210	1953	0.8	2441	0
CORRIDOR 200A	CORRIDORS	2100	0	0	0.06	0	0	126	0.8	158	0
CORRIDOR 200B/C	CORRIDORS	2250	0	0	0.06	0	0	135	0.8	169	0
CORRIDOR 200D	CORRIDORS	900	0	0	0.06	0	0	54	0.8	68	0
LEARNING COMMONS A 201	CLASSROOM (AGES 9+)	1350	35	10	0.12	0	48	642	0.8	803	0
SGR 8 201A	CLASSROOM (AGES 9+)	125	35	10	0.12	0	5	65	0.8	81	0
SGR 9 201B	CLASSROOM (AGES 9+)	125	35	10	0.12	0	5	65	0.8	81	0
LEARNING STUDIO 6 202	CLASSROOM (AGES 9+)	625	35	10	0.12	0	22	295	0.8	369	0
LEARNING STUDIO 7 203	CLASSROOM (AGES 9+)	625	35	10	0.12	0	22	295	0.8	369	0
LEARNING STUDIO 8 204	CLASSROOM (AGES 9+)	625	35	10	0.12	0	22	295	0.8	369	0
LEARNING STUDIO 9 205	CLASSROOM (AGES 9+)	750	35	10	0.12	0	27	360	0.8	450	0
SGR 1 205A	CLASSROOM (AGES 9+)	125	35	10	0.12	0	5	65	0.8	81	0
LEARNING STUDIO 1 206	CLASSROOM (AGES 9+)	625	35	10	0.12	0	22	295	0.8	369	0
LEARNING COMMONS B 207	CLASSROOM (AGES 9+)	1100	35	10	0.12	0	39	522	0.8	653	0
LEARNING STUDIO 2 208	CLASSROOM (AGES 9+)	700	35	10	0.12	0	25	334	0.8	418	0
SGR 4 209A	CLASSROOM (AGES 9+)	125	35	10	0.12	0	5	65	0.8	81	0
SGR 5 209B	CLASSROOM (AGES 9+)	125	35	10	0.12	0	5	65	0.8	81	0
LEARNING STUDIO 3 210	CLASSROOM (AGES 9+)	700	35	10	0.12	0	25	334	0.8	418	0
LEARNING STUDIO 4 211	CLASSROOM (AGES 9+)	625	35	10	0.12	0	22	295	0.8	369	0
SGR 6 211A	CLASSROOM (AGES 9+)	125	35	10	0.12	0	5	65	0.8	81	0
LEARNING STUDIO 5 212	CLASSROOM (AGES 9+)	625	35	10	0.12	0	22	295	0.8	369	0
SGR 7 212A	CLASSROOM (AGES 9+)	125	35	10	0.12	0	5	65	0.8	81	0
CORRIDOR 100A	CORRIDORS	1500	0	0	0.06	0	0	90	0.8	113	0
CORRIDOR 100B/C	CORRIDORS	1700	0	0	0.06	0	0	102	0.8	128	0
CORRIDOR 100D	CORRIDORS	800	0	0	0.06	0	0	48	0.8	60	0
LEARNING COMMONS 2 101	CLASSROOM (AGES 9+)	1600	35	10	0.12	0	56	752	0.8	940	0
LEARNING STUDIO 6 102	CLASSROOM (AGES 9+)	800	35	10	0.12	0	28	376	0.8	470	0
LEARNING STUDIO 7 103	CLASSROOM (AGES 9+)	800	35	10	0.12	0	28	376	0.8	470	0
LEARNING STUDIO 8 105	CLASSROOM (AGES 9+)	650	35	10	0.12	0	23	308	0.8	385	0
SMALL GROUP 5 105A	CLASSROOM (AGES 9+)	200	35	10	0.12	0	7	94	0.8	118	0
LEARNING STUDIO 1 106	CLASSROOM (AGES 9+)	650	35	10	0.12	0	23	308	0.8	385	0
SMALL GROUP 5 106A	CLASSROOM (AGES 9+)	200	35	10	0.12	0	7	94	0.8	118	0
LEARNING STUDIO 2 108	CLASSROOM (AGES 9+)	850	35	10	0.12	0	30	402	0.8	503	0
LEARNING COMMONS 1 109	CLASSROOM (AGES 9+)	1700	35	10	0.12	0	60	804	0.8	1005	0
LEARNING STUDIO 3 110	CLASSROOM (AGES 9+)	850	35	10	0.12	0	30	402	0.8	503	0
LEARNING STUDIO 4 111	CLASSROOM (AGES 9+)	650	35	10	0.12	0	23	308	0.8	385	0
SMALL GROUP 2 111B	CLASSROOM (AGES 9+)	200	35	10	0.12	0	7	94	0.8	118	0
LEARNING STUDIO 5 112	CLASSROOM (AGES 9+)	650	35	10	0.12	0	23	308	0.8	385	0
ATHLETIC FIELD STORAGE / 01	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	1778	2	5	0.06	0	4	127	0.8	158	0
STORAGE / 06	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	210	2	5	0.06	0	1	18	0.8	22	0
SNACK BAR / 02	CAFETERIA/FAST-FOOD DINING	266	100	7.5	0.18	0	27	250	0.8	313	0

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DISTRICT-WIDE CAPITAL IMPROVEMENTS

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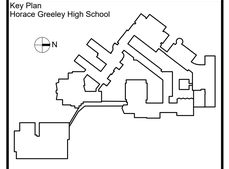
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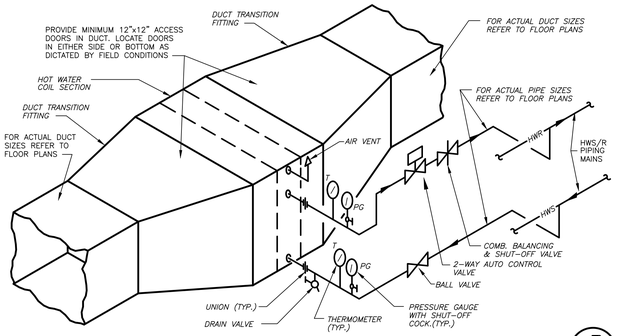
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No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

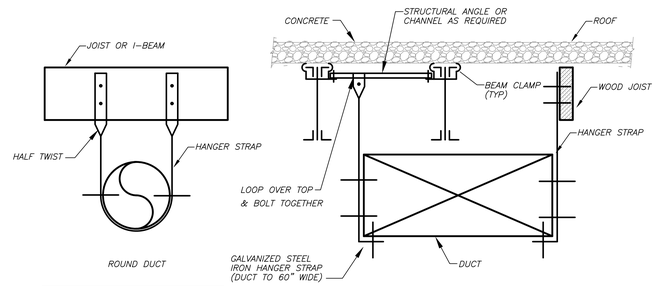
HORACE GREELEY SCHEDULES

Job No. 2023-1028
Date 10/01/2024
Scale AS NOTED
Drawn / Checked BGA/BGA
Sheet Number H302-HG

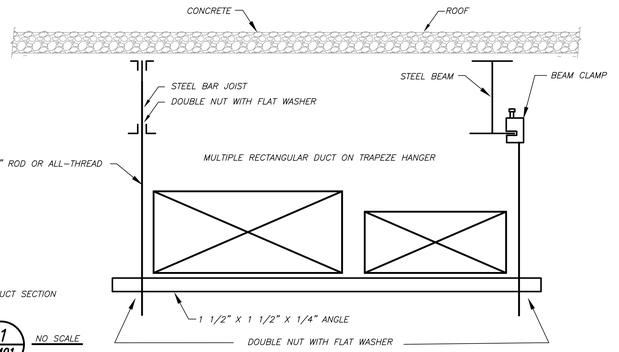


DUCT MTD. WATER COIL PIPING CONNECTION DETAIL

7 / H401 — NO SCALE

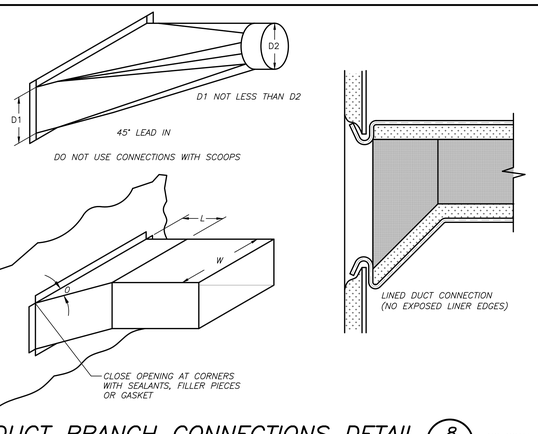


HANGER STRAP TABLE	
DUCT SIZE	METAL GAUGE
UPTO 2 SQFT.	20 GA. GALV.
UPTO 4 SQFT.	16 GA. GALV.
UPTO 6 SQFT	12 GA. GALV.
UPTO 8 SQFT.	1/16" GALV.
OVER 8 SQFT.	SEE SMACNA GUIDELINE



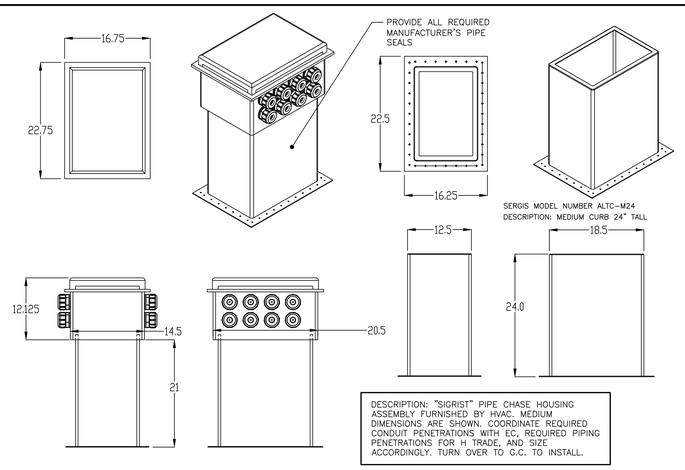
DUCT SUPPORT DETAIL

1 / H401 — NO SCALE



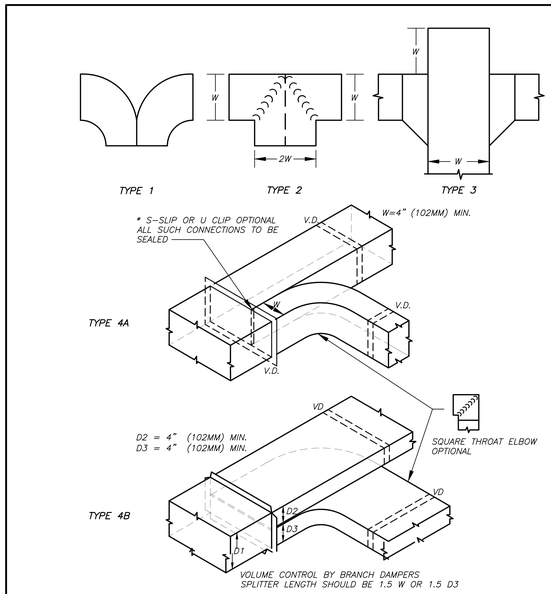
DUCT BRANCH CONNECTIONS DETAIL

8 / H401 — NO SCALE



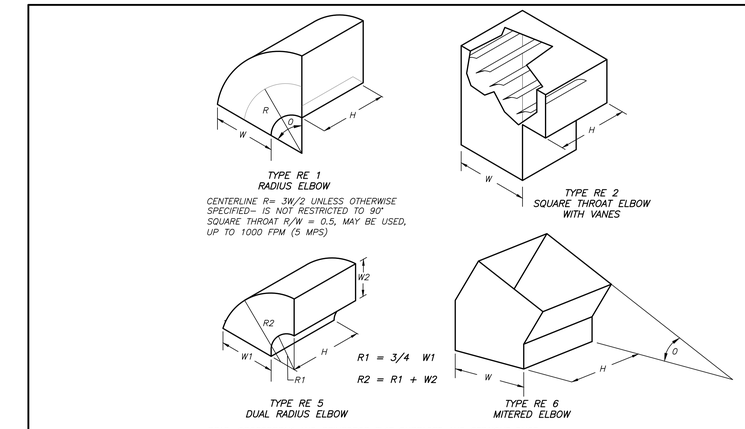
PIPING ROOF PORTAL DETAIL

4 / H401 — NO SCALE



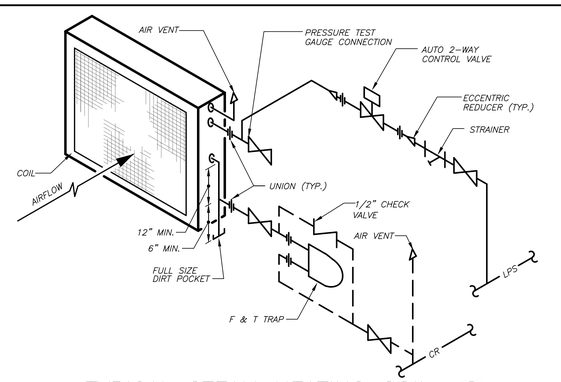
DUCT DIVIDED FLOW BRANCHES DETAIL

2 / H401 — NO SCALE



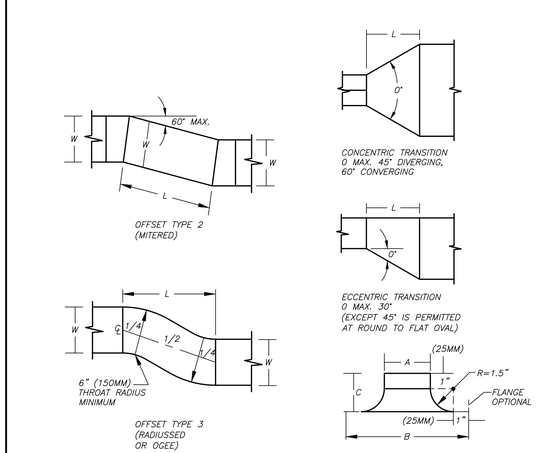
DUCT RECTANGULAR ELBOWS DETAIL

2 / H401 — NO SCALE



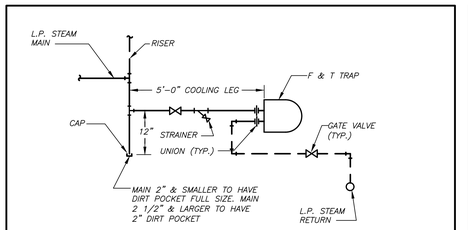
TYPICAL STEAM HEATING COIL PIPING CONNECTION DETAIL

5 / H402 — NO SCALE



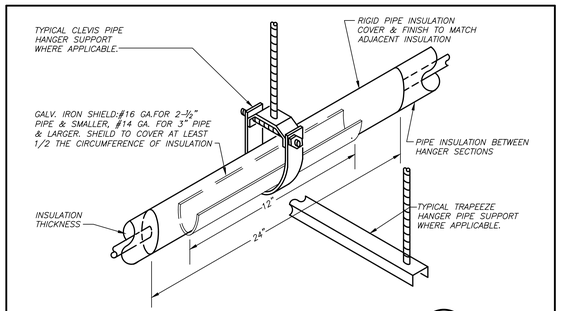
DUCT OFFSETS AND TRANSITIONS DETAIL

3 / H401 — NO SCALE



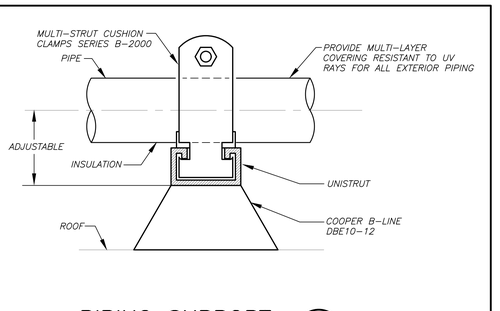
DRIP OF LOW PRESSURE STEAM MAIN/RISER DETAIL

10 / H400 — NO SCALE



INSULATED PIPE HANGER DETAIL

5 / H401 — NO SCALE



PIPING SUPPORT AT ROOF DETAIL

6 / H401 — NO SCALE

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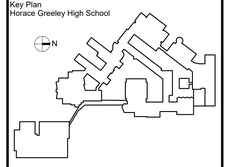
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No.	Date	Issue
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3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING -90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

HORACE GREELEY DETAILS

Job No. 2023-1028	Sheet Number H401-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION.
2. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.
3. WHERE PANELBOARDS, SWITCHES, CIRCUIT BREAKERS, ETC. ARE EXISTING AND TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS AND PROVIDING ALL REQUIRED AND NECESSARY MISCELLANEOUS COMPONENTS SO THAT THE EQUIPMENT SHALL BE IN PERFECT WORKING ORDER.
4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
5. ALL WORK WHERE SHOWN WITH DARK/SOLID LINES ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED. WHERE SHOWN WITH DASHED LINES WITH LETTER (E) IS EXISTING TO REMAIN, WITH LETTER (R) IS EXISTING TO BE REMOVED.
6. FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN MINIMUM $^{3}/_{4}$" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18"). IN UNFINISHED AREAS CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.
7. PROVIDE PANEL NAME PLATE MADE OF BLACK LAMINATED PLASTIC WITH WHITE ENGRAVED LETTERING AND TYPE WRITTEN DIRECTORY FOR ALL NEW AND EXISTING PANELS BEING USED FOR THIS PROJECT.
8. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.
9. THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH 6'-0".
10. EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION.
11. WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC..) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND ON EXISTING CONCRETE BLOCK WALLS AND FLUSH MOUNTED IN NEW WALLS/PARTITIONS.
12. CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.
13. PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.
14. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH A DRAGWIRE.
15. THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG, EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG.
16. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.
17. COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD. FUSES FOR ALL MOTOR LOADS SHALL BE DUAL ELEMENT TIME DELAY TYPE.
18. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
19. PRIOR TO ANY CHASING, CHOPPING OR CORE DRILLING BEING PERFORMED, THE CONTRACTOR SHALL FIELD INVESTIGATE CONDITIONS AND COORDINATE ALL WORK TO ENSURE THAT IT WILL BE IN HARMONY AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING OWNER PRIOR TO PROCEEDING.
20. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
21. ALL PANELBOARD COVERS SHALL BE INSTALLED IN PLACE AT THE COMPLETION OF EACH DAYS WORK.
22. PREPARE "AS-BUILT" DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.
23. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.

GENERAL REMOVAL NOTES

1. BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING AREAS THAT MAY BE AFFECTED BY REMOVAL. REPORT TO THE GENERAL CONTRACTOR ANY CONDITION THAT PREVENTS PERFORMANCE OF THE WORK.
2. BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS WHERE CONNECTIONS MUST BE MADE, CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE. INSPECT EACH AND EVERY AREA AFFECTED BY THE ALTERATION OF THE SPACE BEFORE SUBMITTAL OF BID.
3. ALL ELECTRICAL EQUIPMENT IN THE AREA OF WORK IS EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   A. DISTRIBUTION BOARDS AND PANELBOARDS.
   B. CIRCUIT BREAKERS AND DISCONNECT SWITCHES.
4. ALL CONDUCTORS AND CONDUIT ASSOCIATED WITH REMOVED ELECTRICAL EQUIPMENT SHALL BE REMOVED COMPLETELY BACK TO ITS SOURCE OF POWER AND DISCONNECTED.
5. ALL POWER CONDUCTORS, CONTROL WIRING AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SUCH AS FANS, AIR CONDITIONING UNITS, PUMPS, ETC. DESIGNATED FOR REMOVAL ON THE HVAC AND PLUMBING REMOVAL DRAWINGS SHALL BE REMOVED CLEAR BACK TO THE SOURCE OF POWER AND DISCONNECTED. ALL MOTOR STARTERS, DISCONNECT SWITCHES, CONTROL DEVICES, ETC. SHALL BE REMOVED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
6. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO TRACE AND RELOCATE ALL EXISTING FEEDERS AND BRANCH CIRCUIT WIRING WHICH PASSES THROUGH THE REMOVAL AREA THAT SERVE EXISTING OCCUPIED SPACES TO REMAIN. COORDINATE WITH BUILDING MANAGER PRIOR TO ANY SHUTDOWNS OR DISRUPTIONS THAT MAY BE REQUIRED TO ACCOMPLISH THIS WORK.
7. DISPOSE OF ALL REMOVED EQUIPMENT, WHICH IS NOT INTENDED TO BE REUSED. PRIOR TO DISPOSAL, CONTACT BUILDING MANAGER TO DETERMINE IF ANY REMOVED EQUIPMENT IS DESIRED FOR STOCK.
8. EXISTING CIRCUIT BREAKERS IN PANEL(S) ARE TO BE RE-USED. ELECTRICAL CONTRACTOR TO DISCONNECT PANEL AND CIRCUIT BREAKERS WITH GREAT CARE TO ENSURE AGAINST DAMAGE. THIS CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.
9. EXISTING EQUIPMENT DESIGNATED FOR REUSE SHALL BE CLEANED, REFURBISHED AND RESTORED TO OPTIMUM PERFORMANCE. THIS SHALL INCLUDE BUT NOT LIMITED TO CLEANING OF LIGHT FIXTURES, REPLACEMENT OF INOPERABLE BALLASTS AND LAMPS, RESISTANCE TESTING OF BRANCH CIRCUITRY AND FEEDERS, ETC.
10. EXTEND EXISTING CIRCUITRY TO THOSE DEVICES THAT ARE TO BE RELOCATED. MATCH EXISTING TYPE AND SIZE. RELOCATION OF EXISTING EQUIPMENT SHALL BE PERFORMED ONLY UPON OWNERS ACCEPTANCE OF EXISTING EQUIPMENT.
11. EXTEND EXISTING CIRCUITS SERVING EQUIPMENT TO REMAIN FROM PANELS THAT ARE TO BE REMOVED TO NEW PANELS OR EXISTING PANELS THAT ARE TO REMAIN.

SPECIAL NOTE

ELECTRICAL CONTRACTOR SHALL PROVIDE LEAD TIMES FOR ALL DISTRIBUTION BOARDS AND PANEL BOARDS WITH SHOP DRAWINGS SUBMITTAL FOR THE DELIVERY OF EQUIPMENT.

ABBREVIATIONS

ABBV.	DESCRIPTION
A	AMP/AMPERE
A.F.F.	ABOVE FINISHED FLOOR
AIC	AMP INTERRUPTING CURRENT
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C.B.	CIRCUIT BREAKER
CH	CABINET HEATER
CU	CONDENSING UNIT
(E)	EXISTING TO REMAIN
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
(ER)	EXISTING RELOCATED
F.A.C.P.	FIRE ALARM CONTROL PANEL
G,GRD	GROUND
GFI	GROUND FAULT INTERRUPTER
kcmil	THOUSAND CIRCULAR MILLS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NTS	NOT TO SCALE
P.A.	PUBLIC ADDRESS
PNL	PANEL
(R)	REMOVE EXISTING
RF	RETURN FAN
(RN)	REPLACE EXISTING W/NEW
(RR)	REMOVED, SALVAGED AND RELOCATED
TYP.	TYPICAL
UH	UNIT HEATER
UV	UNIT VENTILATOR
W	WATT
WP	WEATHERPROOF

LEGEND

A / a	2'x4' LED CEILING MOUNTED LIGHT FIXTURE. UPPER CASE LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
B	2'x4' LED CEILING MOUNTED LIGHT FIXTURE FOR EMERGENCY OPERATION. "EM" INDICATES SWITCHED EMERGENCY FIXTURE, "EM/NL"-UNSWITCHED EMERGENCY/NIGHT FIXTURE (TYP.).
	CEILING/WALL MOUNTED EXIT LIGHT WITH OUTLET BOX, DIRECTIONAL ARROWS SHADED PORTION INDICATES ILLUMINATED FACE. SCHEDULE DENOTES TYPE.
	WALL MOUNTED EMERGENCY LIGHT FIXTURE WITH INTEGRAL BATTERY BACK-UP.
3	HOMERUN TO DESIGNATED PANEL, ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOMERUN SHALL CONSIST OF 2#12-3/4"C U.O.N.
2,(4,6)	HOMERUN TO DESIGNATED PANEL, NUMBERS IN PARENTHESIS INDICATE MULTIPLE CIRCUIT, I.E. 3-HOTS AND 1-GROUND U.O.N.
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW
S_K	FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH CONTROLLING OUTLET "a". 'K' WHERE USED INDICATES KEY SWITCH.
S	FLUSH WALL MOUNTED 3-WAY LIGHTING CONTROL SWITCH.
	125V-2P-3W-20A GROUNDED TYPE, SPECIFICATION GRADE WALL MOUNTED TAMPER RESISTANCE DUPLEX RECEPTACLE SIMILAR TO HUBBELL #5362WTR.
	20A FLUSH WALL MOUNTED GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE HUBBELL #GF5362.
	SURFACE MOUNTED NEW ELECTRICAL PANELBOARD.
S	CEILING MOUNTED IONIZATION TYPE SMOKE DETECTOR
F	WALL MOUNTED COMBINATION FIRE ALARM HORN/STROBE DEVICE.
B	SCHOOL BELL.
F	WALL MOUNTED FIRE ALARM MANUAL PULL STATION
A	AMBER ALERT
WAP	WIRELESS ACCESS POINT
S	CEILING MOUNTED PUBLIC ADDRESS SPEAKERS
S	GYM CEILING MOUNTED LARGE PUBLIC ADDRESS SPEAKERS
S_D	DUCT MOUNTED IONIZATION TYPE SMOKE DETECTOR WITH REMOTE MOUNTED L.E.D. AND TEST BUTTON. MOUNT L.E.D. & TEST BUTTON UNDER SINGLE COVER PLATE ON CEILING. (TYP. U.O.N.).
FACP	FIRE ALARM CONTROL PANEL.
240/3 60 40 WP	HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT CONNECTION. 240 INDICATES VOLTAGE, 3 INDICATES NO. OF POLES, 60 INDICATES AMPERE RATING, NF INDICATES NON-FUSED(OR FUSE SIZE) U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE. 'WP' WHERE USED INDICATES WEATHERPROOF ENCLOSURE (NEMA 3R).
S_T	THERMAL SWITCH, CUTLER-HAMMER MS SERIES MANUAL STARTERS SINGLE-PHASE 20AMP, 120V U.O.N. WHERE INDICATED WITH 'WP' PROVIDE WATERTIGHT ENCLOSURE TYPE 3.
S_{2T}	208 VOLT, SINGLE PHASE 2 POLE, THERMAL OVERLOAD PROTECTED TOGGLE TYPE SWITCH. SIMILAR TO EATON #AH4361 + #AH27940G NEMA 1 ENCLOSURE.
(5)	MOTOR (F.B.O. WIRED BY ELEC.) - NUMBER INDICATES HORSEPOWER. REFER TO PANEL SCHEDULES FOR WIRING AND OVER CURRENT PROTECTION.
(1)	TAG SYMBOL. NUMERAL DENOTES REFERENCE TO A WORK NOTE.
	MECHANICAL EQUIPMENT IDENTIFICATION: — EQUIPMENT ABBREVIATION (FE, SF, HV, ETC. SEE ABBREVIATIONS ON THIS DWG.) — EQUIPMENT NUMBER
	DETAIL/PART PLAN NUMBER IDENTIFICATION: — DETAIL/PART PLAN NUMBER — DRAWING NUMBER

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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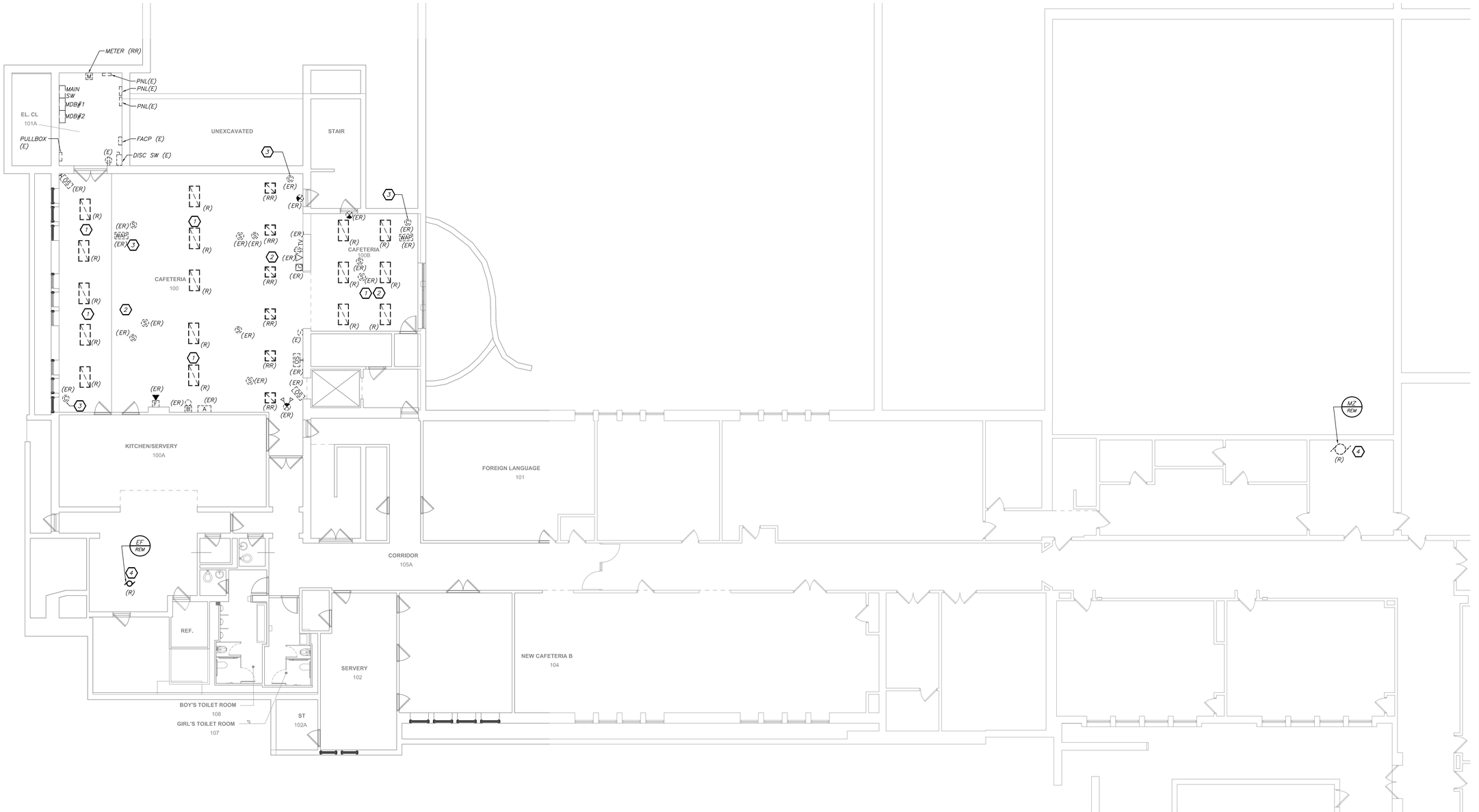
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4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

LEGEND, ABBREVIATIONS & NOTES

Job No. 2023-1028	Sheet Number E001
Date 10/01/2024	
Scale AS NOTED	
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FIRST FLOOR PART PLAN (REMOVALS & REINSTALLTIONS)

1 / E101-BE

0 8' 16'

1/8 inch=1 foot

N

REMOVAL NOTES:

1. IN THIS AREA OF WORK, EXISTING 2'X4' LED LIGHT FIXTURES ARE TO BE REMOVED. COIL UP AND SECURE EXISTING POWER AND CONTROL WIRE WHILE NEW CEILING IS INSTALLED.
2. IN THIS AREA OF WORK, EXISTING LIGHT FIXTURES, OCCUPANCY SENSORS, SMOKE DETECTORS, PA SPEAKERS SHALL BE REMOVED, BUBBLE WRAP FOR PROTECTION, STORED, CLEANED AND REINSTALLED BY ELECTRICAL CONTRACTOR AFTER THE NEW HVAC DUCT WORK IS INSTALLED. ANY DAMAGE TO ANY DEVICES SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR. ALL ASSOCIATED ALL WALL MOUNTED DEVICES LOCATED WITHIN 1'-0" OF THE CEILING SUCH AS AMBER ALERT, SCHOOL BELL, EMERGENCY BATTERY PACK LIGHTS, ETC. SHALL BE REMOVED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. EXTEND EXISTING WIRING/BRANCH CIRCUITRY AND PROVIDE ALL REQUIRED AND NECESSARY JUNCTION BOXES.
3. EXISTING CEILING MOUNTED CAMERA AND WAP'S SHALL BE REMOVED, BUBBLE WRAPPED AND HANDED OVER TO OWNER TO STORE AND REINSTALL AFTER NEW CEILING IS INSTALLED.
4. EXISTING BRANCH CIRCUIT (CONDUIT AND WIRE), THERMAL SWITCHES, DISCONNECT SWITCHES SHALL BE REMOVED IN ITS ENTIRETY BACK TO SOURCE.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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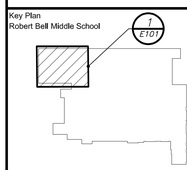
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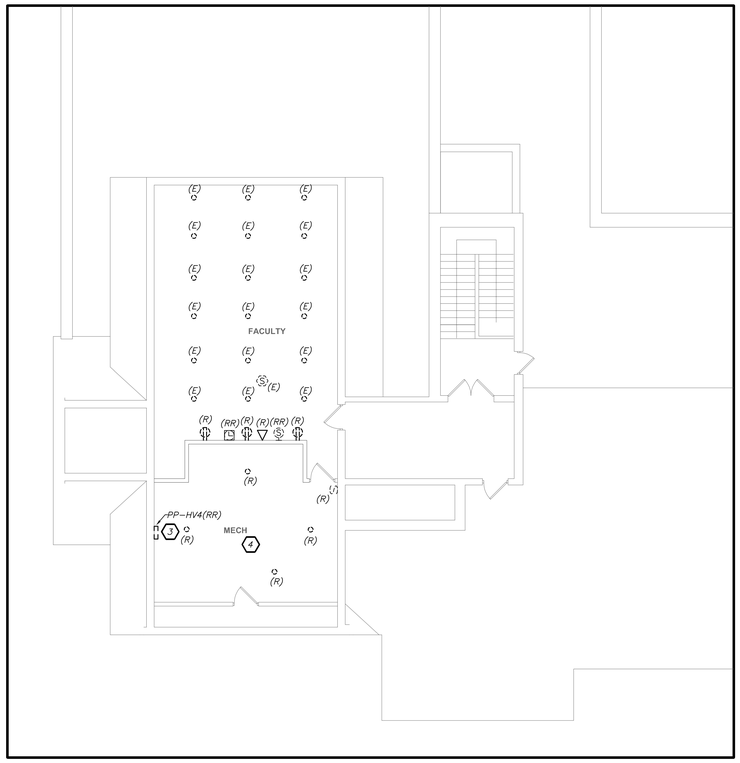
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3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title
ROBERT E. BELL FIRST FLOOR PART REMOVAL PLAN

Job No. 2023-1028	Sheet Number E101-BE
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	

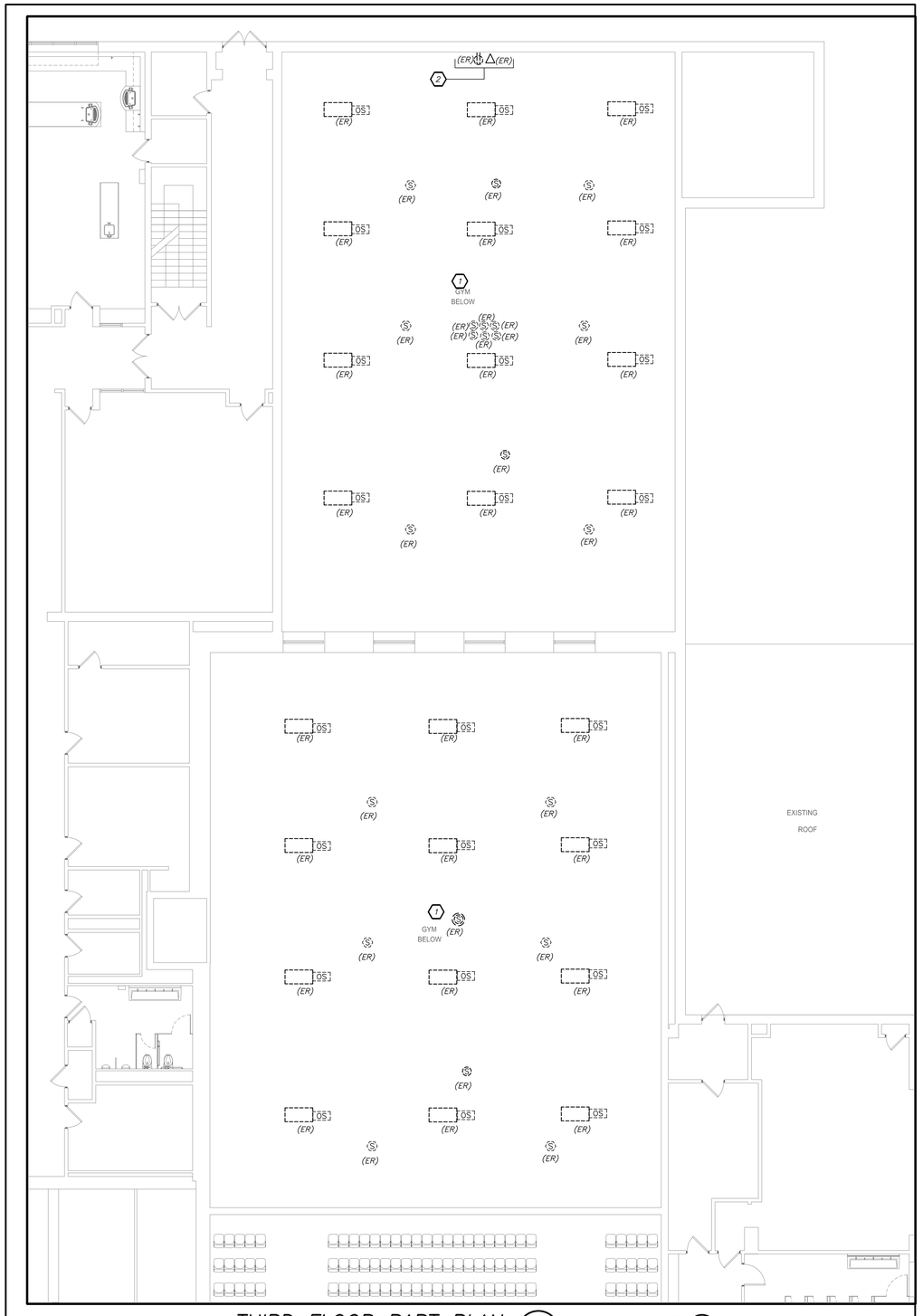


ATTIC PART PLAN (REMOVALS)

2 E102

0 8' 16'

1/8 inch=1 foot



THIRD FLOOR PART PLAN (REMOVALS & REINSTALLTIONS)

1 E102

0 8' 16'

1/8 inch=1 foot

REMOVAL NOTES:

1. IN THIS AREA OF WORK, EXISTING LIGHT FIXTURES, SMOKE DETECTORS, PA SPEAKERS SHALL BE REMOVED, BUBBLE WRAP FOR PROTECTION, STORED, CLEANED AND REINSTALLED BY ELECTRICAL CONTRACTOR AFTER THE NEW HVAC DUCT WORK IS INSTALLED. ANY DAMAGE TO ANY DEVICES SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR. ALL WALL MOUNTED DEVICES LOCATED WITHIN 1'-0" OF THE CEILING SUCH AS AMBER ALERT, SCHOOL BELL, EMERGENCY BATTERY PACK LIGHTS SHALL BE REMOVED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. EXTEND EXISTING WIRING/BRANCH CIRCUITRY AND PROVIDE ALL REQUIRED AND NECESSARY JUNCTION BOXES.
2. POWER AND DATA FOR THE SCOREBOARD SHALL BE REMOVED AND RELOCATED BELOW NEW HVAC DUCT WORK. COORDINATE ON SITE WITH MECHANICAL CONTRACTOR BEFORE THE START OF WORK.
3. REPLACE EXISTING PANELBOARD WITH NEW. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL EXISTING CIRCUITS, REMOVE EXISTING INTERNAL COMPONENTS, MAINTAIN EXISTING BACKBOX AND PROVIDE NEW INTERNAL COMPONENTS. PROVIDE CUSTOM INTERNAL COMPONENTS AND NEW CUSTOM 'DOOR-IN-DOOR' TRIM COVER. ANY DAMAGE CAUSED TO SURROUNDING WALL FINISHES SHALL BE REPAIRED, PAINTED, ETC. TO MATCH EXISTING. RE-USE EXISTING CONDUITS/PATHWAY AND PROVIDE NEW FEEDERS TO MATCH EXISTING FEEDER SIZE. EXTEND ALL WIRING AND CONDUIT AS NECESSARY FOR COMPLETE INSTALLATION. CONTRACTOR SHALL MATCH EXISTING CIRCUIT BREAKERS ARRANGEMENT. REFER TO DRAWINGS E601 FOR PANELBOARD CONFIGURATION.
4. REMOVE EXISTING LIGHTS AND CONTROLS IN MECHANICAL ROOM. REFER TO DRAWING E201-BE FOR NEW SCOPE OF WORK.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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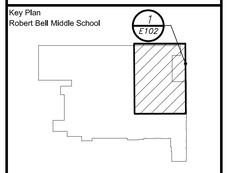
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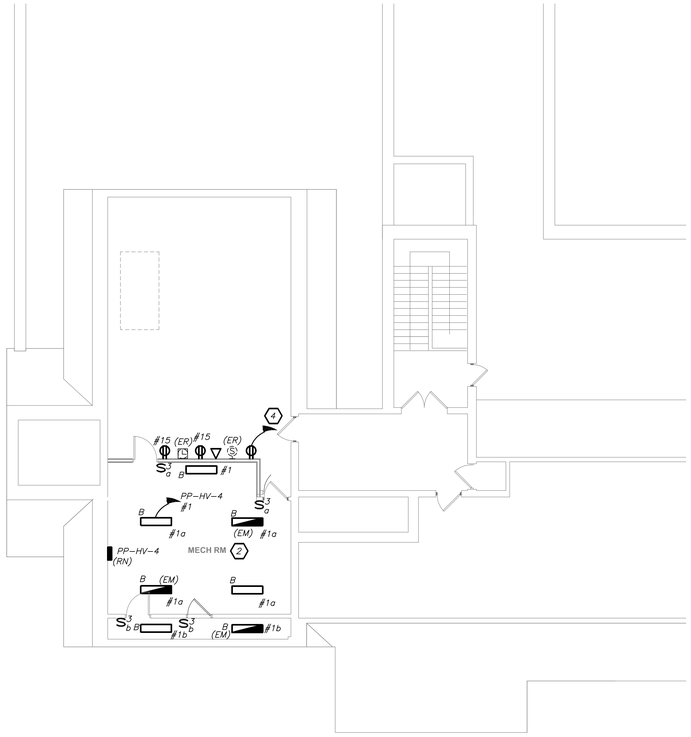
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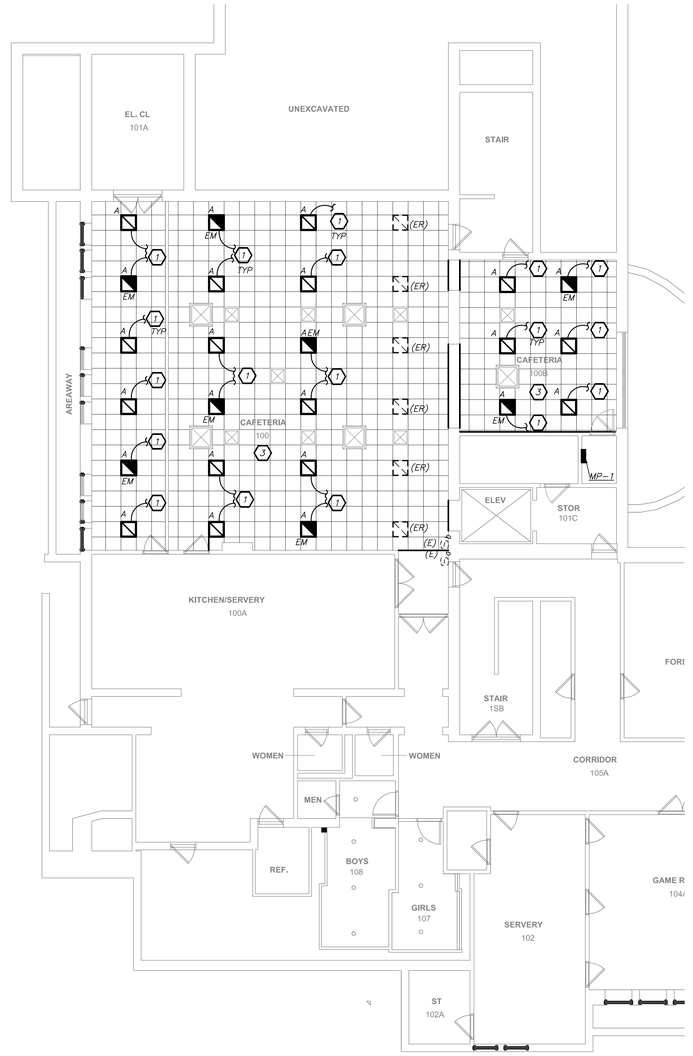
Sheet Title

ROBERT E. BELL THIRD FLOOR & ATTIC PART REMOVAL PLAN

Job No. 2023-1028	Sheet Number E102-BE
Date 10/01/2024	
Scale AS NOTED	
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ATTIC PART LIGHTING PLAN (NEW WORK) — 2 / E201 — 0, 8', 16' — 1/8 inch=1 foot



FIRST FLOOR PART LIGHTING PLAN (NEW WORK) — 1 / E201 — 0, 8', 16' — 1/8 inch=1 foot

WORK NOTES:

1. ELECTRICAL CONTRACTOR SHALL CONNECT NEW LIGHTING TO EXISTING CIRCUIT AVAILABLE AFTER THE DEMO WORK. EXTEND CIRCUITS TO ADDITIONAL LIGHTING IN THE AREA WITH 2#12+1#12D IN 3/4 "C. EXISTING CONTROLS SHALL BE EXTENDED TO ADDITIONS LIGHTS, EXISTING SWITCH ZONED "a" SHALL CONTROL ALL NORMAL LIGHTS IN THE AREA AND SWITCH ZONED "b" SHALL CONTROL LIGHTS WITH IN–BUILT EMERGENCY BATTERY BACK UP. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES FOR COMPLETE OPERATIONAL SYSTEM.
2. NEW LIGHTING SHALL BE PROVIDED IN THE ATTIC MECHANICAL ROOM. EC SHALL ADJUST THE LAYOUT OF THE NEW LIGHTING BASED ON NEW HVAC EQUIPMENT AND DUCT WORK LAYOUT. COORDINATE WITH HVAC CONTRACTOR.
3. ALL OTHER DEVICES AS INDICATED ON E101 (ER) OCCUPANCY SENSORS, SMOKE DETECTORS, PA SPEAKERS, ETC. SHALL BE REINSTALLED AS REFERENCED ON DRAWING E101.
4. EC SHALL CONNECT TO EXISTING CIRCUIT IN THE AREA AVAILABLE AFTER THE DEMO THE WORK. CIRCUIT NUMBER SHOWN FOR CONTRACTOR GUIDANCE ONLY

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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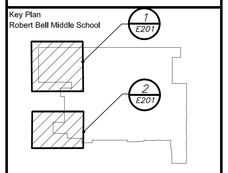
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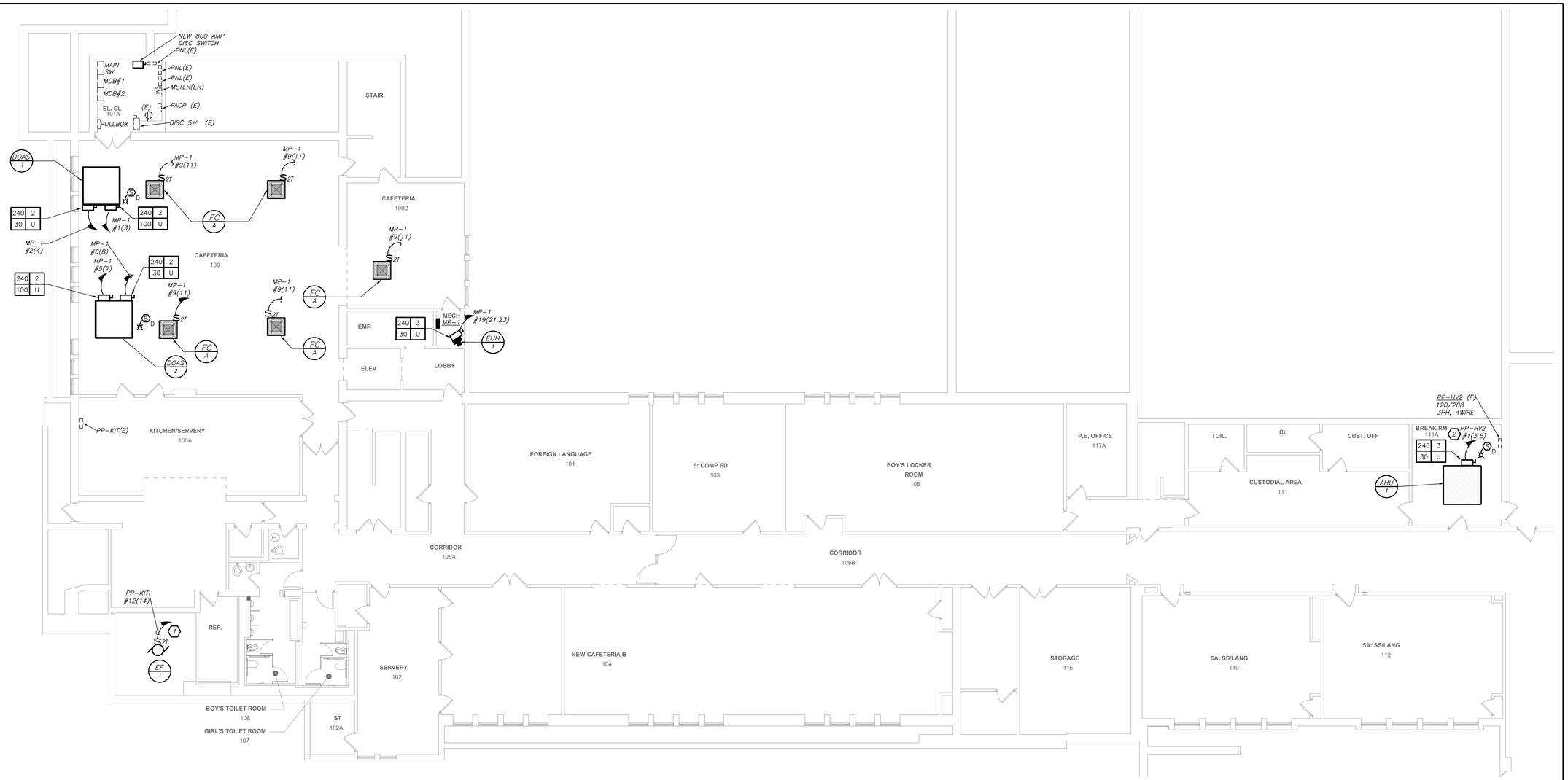
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2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title
ROBERT E. BELL FIRST & ATTIC FLOOR PART LIGHTING PLAN

Job No. 2023-1028	Sheet Number E201-BE
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



FIRST FLOOR PART FLOOR PLAN (NEW WORK)

1 / E301

0 4' 8' 16'

1/8 inch=1 foot

WORK NOTES:

1. PROVIDE 2P-20 AMP BREAKER IN AVAILABLE SPACE IN KITCHEN PANEL. PROVIDE 2#12+1#12G - 3/4"C TO INDICATED PANELBOARD.
2. PROVIDE 3P-30 AMP BREAKER IN AVAILABLE SPACE IN PANELBOARD PP-HV2. PROVIDE 3#10+1#10G - 3/4"C TO INDICATED PANELBOARD.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

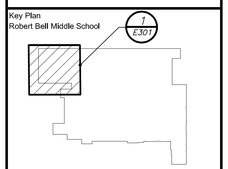
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CONSULTING ENGINEERS
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Key Plan
Robert Bell Middle School



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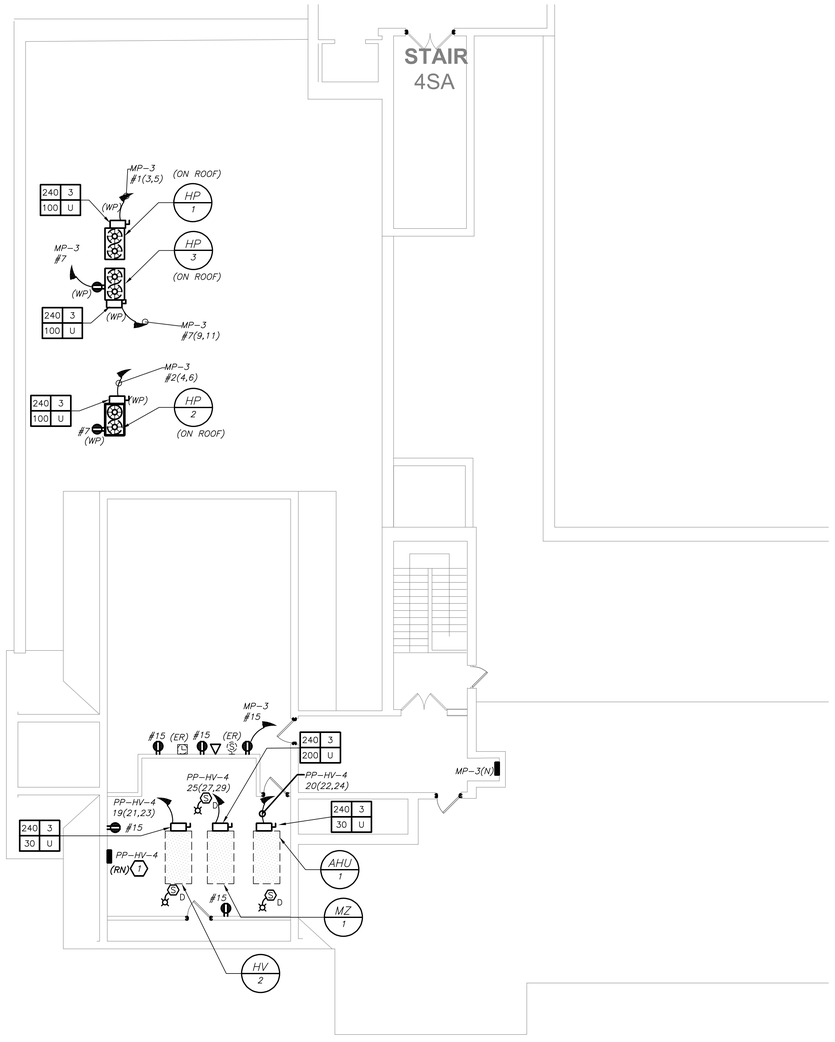
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1	06/10/2023	SCHEMATIC DESIGN

Sheet Title
ROBERT E. BELL FIRST FLOOR PART POWER PLAN

Job No. 2023-1028	Sheet Number E301-BE
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



FOURTH FLOOR PART POWER PLAN (NEW WORK)

2 / E302

0 8' 16'
1/8 inch=1 foot

WORK NOTES:

1. REFER TO DRAWING E501 FOR NEW PANEL CONFIGURATION.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS



THIRD FLOOR PART POWER PLAN (NEW WORK)

1 / E302

0 8' 16'
1/8 inch=1 foot

DBE: TAB: Layout1 — Y:\CHAPPAQUA CSD\Chappaqua CSD – DW Capital Projects (2332.00)\Drawings\Electrical\BELL MS\233200E302.dwg — DATE: Oct 04, 2024 — 4:10pm

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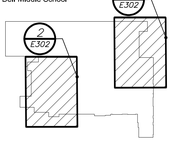
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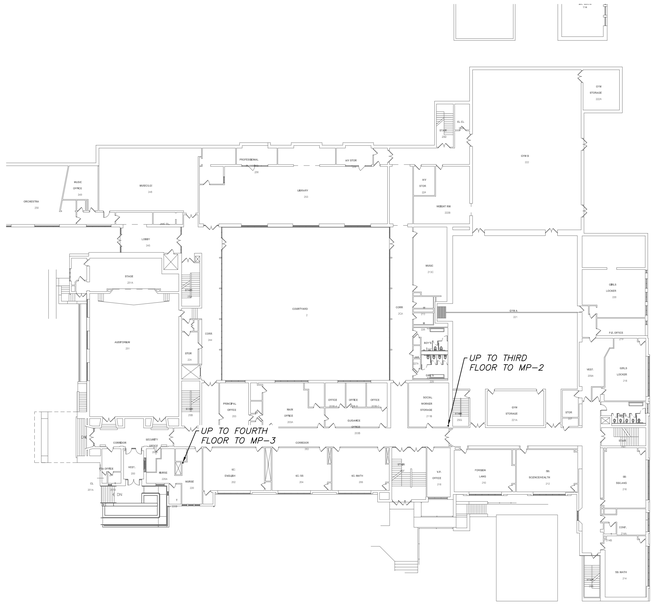
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Sheet Title

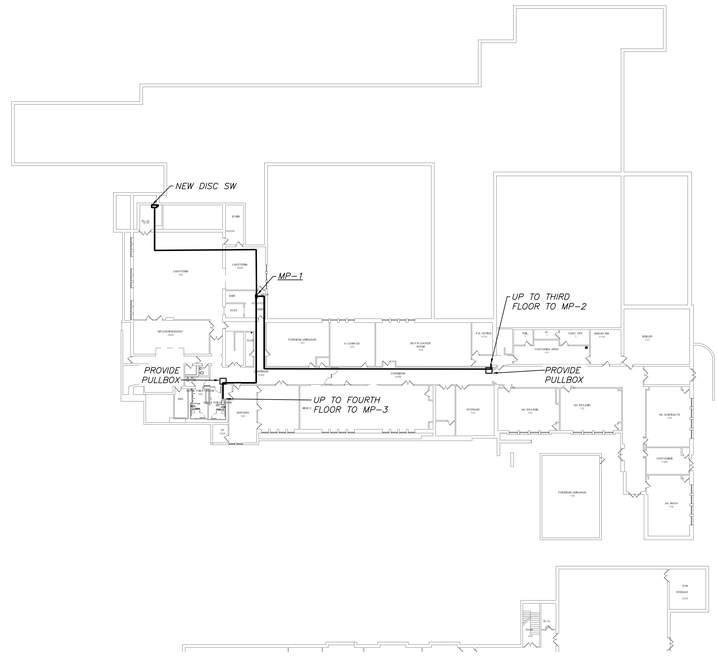
ROBERT E. BELL THIRD & FOURTH FLOOR PART POWER PLAN

Job No. 2023-1028	Sheet Number E302-BE
Date 10/01/2024	
Scale AS NOTED	
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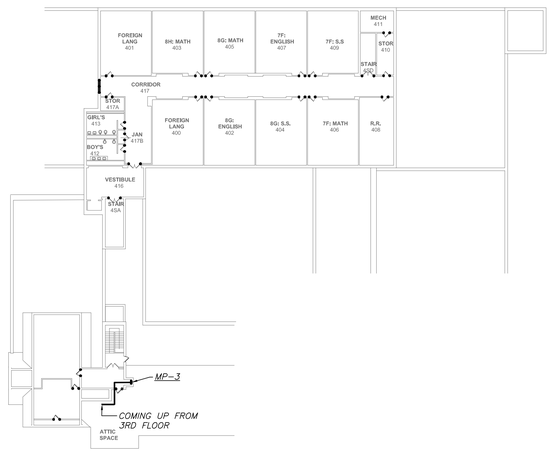
SECOND FLOOR CONDUIT ROUTING (NEW WORK) 3 / E303

0 32' 64'
1/32 inch=1 foot



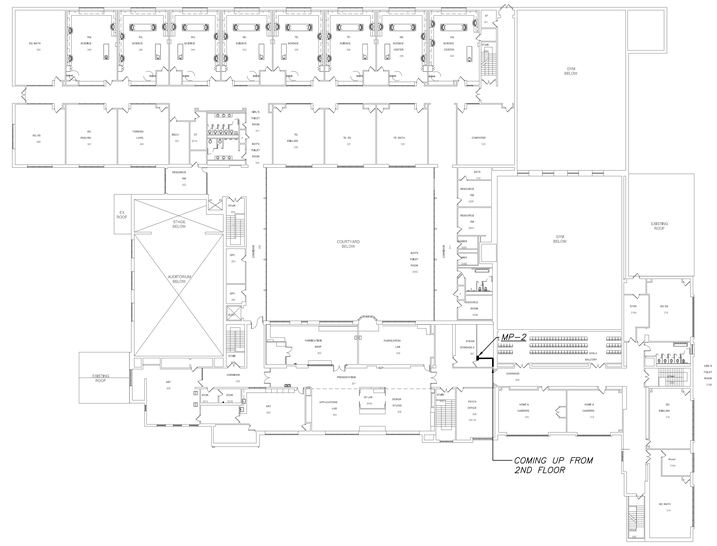
FIRST FLOOR CONDUIT ROUTING (NEW WORK) 1 / E303

0 32' 64'
1/32 inch=1 foot



FOURTH FLOOR CONDUIT ROUTING (NEW WORK) 4 / E303

0 32' 64'
1/32 inch=1 foot



THIRD FLOOR CONDUIT ROUTING (NEW WORK) 2 / E303

0 32' 64'
1/32 inch=1 foot

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1	06/10/2023	SCHEMATIC DESIGN

Sheet Title
ROBERT E. BELL
CONDUIT PATH

Job No. 2023-1028
Date 10/01/2024
Scale AS NOTED
Drawn / Checked BGA/BGA

Sheet Number
E303-BE

DBE: TAB: Layout1 — Y:\CHAPPAQUA CSD\Chappaqua CSD — DW Capital Projects (2332.00)\Drawings\Electrical\BELL MS\233200E303.dwg — DATE: Oct 02, 2024 — 5:26pm

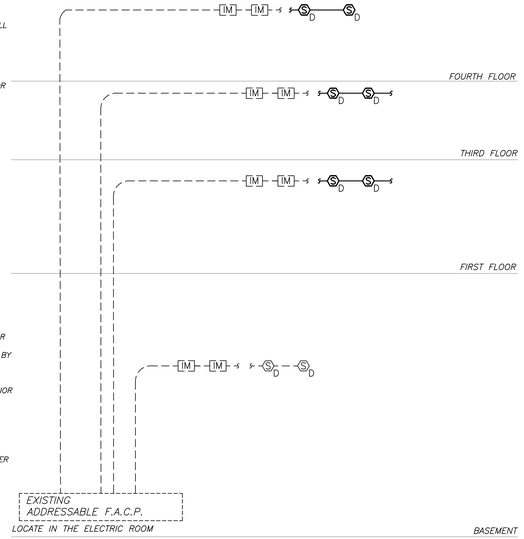
FIRE ALARM RISER GENERAL NOTES:

1. FIRE ALARM WIRING DIAGRAMS SHOWN ARE FOR GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY AND OBTAIN POINT TO POINT WIRING DIAGRAM PRIOR TO INSTALLATION FROM MANUFACTURER.
2. PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
3. IN AREAS WHERE DUST AND DIRT WILL BE AIRBORNE DURING DEMOLITION AND CONSTRUCTION THE CONTRACTOR SHALL PROVIDE PLASTIC WRAP OVER SMOKE DETECTORS AND THEN REMOVE ONCE SPACE IS CLEAN.
4. UNLESS DIRECTED OTHERWISE BY FIRE ALARM SYSTEM MANUFACTURER FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY):

   SIGNAL WIRING – #14 AWG TWISTED/SHIELDED

   THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
   A. A MINIMUM TEMPERATURE RATING OF 150 C
   B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS
   C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS
   D. THE COLOR OF THE CABLE SHALL BE RED
   E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE) WHEN CONDUIT IS USED. SEE NOTE 5 FOR ADDITIONAL CLARIFICATION.
   F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.

   CONFIRM WIRING TYPE AND QUANTITY WITH FIRE ALARM SYSTEM MANUFACTURER PRIOR TO PURCHASING.
5. PROVIDE MC FIRE ALARM CABLE WITH RED STRIPE AS MANUFACTURED BY AFC SERIES 1800 WHEN CABLE IS CONCEALED OR ABOVE HUNG CEILING. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN FINISHED AREAS, CABLE SHALL RUN IN WIREMOLD V–700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN. 3/4" CONDUIT.
6. SHUTDOWN OF HVAC SYSTEM EQUIPMENT (NOT LIMITED TO, ROOF TOP, EXHAUST FANS, ETC.) OF 1000 CFM OR GREATER, SHALL BE PERFORMED VIA A RELAY INTERFACE SYSTEM. SEND SIGNAL TO BUILDING AUTOMATED TEMPERATURE CONTROL (ATC) SYSTEM INDICATING SHUTDOWN HAS OCCURRED. EQUIPMENT RESTART SHALL BE BY BUILDING 'ATC' SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
7. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
8. COORDINATE F.A WORK WITH F.A VENDOR.
9. VERIFY EXACT QUANTITIES OF FIRE ALARM DEVICES WITH PLANS.
10. ALL DEVICES SHALL BE SUPERVISED AS PER N.F.P.A. 72. PROVIDE END OF LINE RESISTORS AS REQUIRED PER INDIVIDUAL MANUFACTURER. PROVIDE LOAD RELAYS AS REQUIRED FOR PROPER OPERATION OF EQUIPMENT.
11. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND MAPPING OF EACH DEVICE AS REQUIRED.



FIRE ALARM RISER DIAGRAM (EXISTING AND NEW WORK)

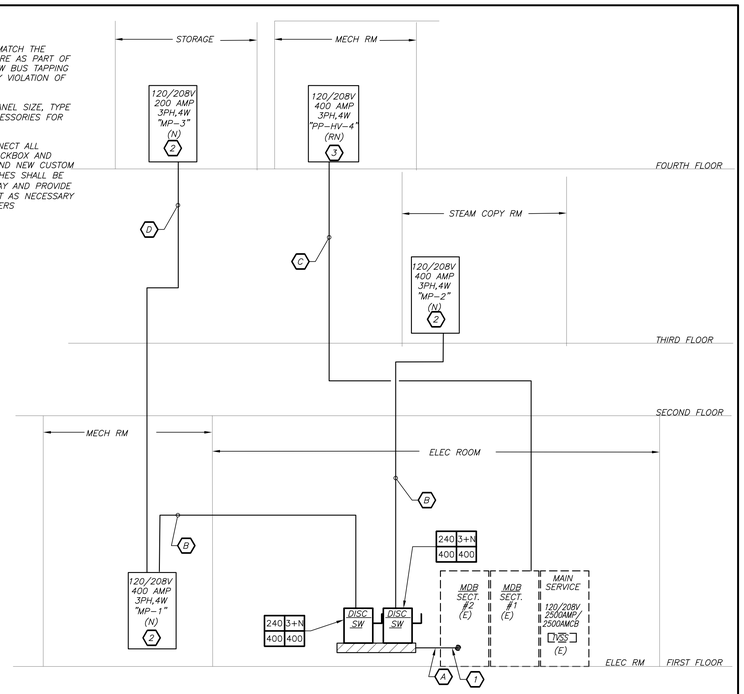
2 / E501 N.T.S.

RISER NOTES:

1. TAP EXISTING BUS AND PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES TO MATCH THE EXISTING DISTRIBUTION BOARD. SEE RISER FOR WIRE SIZING. CONTRACTOR SHALL HIRE AS PART OF THIS CONTRACT A UL FIELD ENGINEERING SERVICE MEMBER TO RE–CERTIFY THE NEW BUS TAPPING OF THE EXISTING COPPER BUS IN THE EXISTING DISTRIBUTION BOARD TO AVOID ANY VIOLATION OF THE UL LISTING AND MEET UL LISTING REQUIREMENTS.
2. NEW 120/208V ,3 PHASE, 4WIRE PANELBOARD. REFER TO PANEL SCHEDULE FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION.
3. REPLACE EXISTING PANELBOARD WITH NEW. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL EXISTING CIRCUITS, REMOVE EXISTING INTERNAL COMPONENTS, MAINTAIN EXISTING BACKBOX AND PROVIDE NEW INTERNAL COMPONENTS. PROVIDE CUSTOM INTERNAL COMPONENTS AND NEW CUSTOM "DOOR–IN–DOOR" TRIM COVER. ANY DAMAGE CAUSED TO SURROUNDING WALL FINISHES SHALL BE REPAIRED, PAINTED, ETC. TO MATCH EXISTING. RE–USE EXISTING CONDUITS/PATHWAY AND PROVIDE NEW FEEDERS TO MATCH EXISTING FEEDER SIZE. EXTEND ALL WIRING AND CONDUIT AS NECESSARY FOR COMPLETE INSTALLATION. CONTRACTOR SHALL MATCH EXISTING CIRCUIT BREAKERS ARRANGEMENT.

FEEDER SCHEDULE:

A. 2 SETS OF 4# 500KCMIL + 1#1/0G IN 3–1/2"C
B. 4# 500KCMIL + 1#3G IN 3–1/2"C
C. 4# 500KCMIL + 1#3G IN EXISTING 3–1/2"C
D. 4# 3/0 +1#6 in 2"C



PARTIAL POWER RISER DIAGRAM (NEW WORK)

1 / E501 N.T.S.

LIGHTING FIXTURE SCHEDULE

TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
A	CEILING RECESSED MOUNTED	54W LED UNV	RECESSED 2X2 LED FIXTURE, 3500K COLOR TEMP, 3553 LUMENS, 80 CRI AND 0–10V INTEGRAL DIMMING DRIVER.	MANUFACTURER: METALUX LIGHTING CAT# 22CGTS–L3C3R
A EM	CEILING RECESSED MOUNTED	54W LED UNV	SAME AS FIXTURE "A" WITH INTEGRAL BATTERY PACK	MANUFACTURER: METALUX LIGHTING CAT# 22CGTS–L3C3R–EL7W
B	CHAIN HUNG	75W LED UNV	CHAIN HUNG 1'X4' LED LIGHTING WITH LENS	MANUFACTURER: PHILIPS DAYBRITE CAT# LBX–70L–835–UNV–FXR–126–UD
B EM	CHAIN HUNG	75W LED UNV	SAME AS FIXTURE "B" WITH INTEGRAL BATTERY PACK	MANUFACTURER: PHILIPS DAYBRITE CAT# LBX–70L–835–UNV–FXR–126–UD–EMLED

NEW ELECTRICAL PANEL SCHEDULE

PNL: MP-3 | 208Y/120, 3 PHASE, 4 WIRE | 22 ,000MIN A.I.C. SYM | NEUTRAL: 100%
MOUNTING: SURFACE X / (NEMA 1) FLUSH / IN MCC | MAIN LUGS ONLY / DOUBLE LUGS / FEED THRU LUG / SHUNT TRIP MAIN | MAIN C BKR- 200A/3P | MAIN BUS - 200 A | GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 24

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA/PHASE A	B	C	KVA/PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	3	HP-1	3#4+1#8G	1 1/4	6.10			6.20						3	2
3						6.10			6.20		1 1/4	3#4+1#8G	HP-2		4
5	70						6.10			6.20				70	6
7	20	ROOF GFI	2#12+1#12G	3/4	0.18						-	-	SPARE	20	8
9	3	HP-3	3#4+1#8G	1 1/4		6.10					-	-	SPARE	20	10
11							6.10				-	-	SPARE	20	12
13	70				6.10						-	-	SPARE	20	14
15	20	ATTIC RECEPTACLES	2#12+1#12G	3/4		0.54					-	-	SPARE	20	16
17	20	SPARE	-	-							-	-	SPARE	20	18
19	20	SPARE	-	-							-	-	SPARE	20	20
21	20	SPARE	-	-							-	-	SPARE	20	22
23	20	SPARE	-	-							-	-	SPARE	20	24
		SUBTOTALS			12.4	12.74	12.2	6.20	6.20	6.20			SUBTOTALS		
		TOTAL LOADS			18.6 KVA	PHASE A							LIGHTING:	0.00 KVA	
					18.9 KVA	PHASE B							RECEPTACLE:	0.00 KVA	
					18.4 KVA	PHASE C							KITCHEN:	0.00 KVA	
		TOTAL CONN. LOAD			55.9 KVA	155.0 A							MOTOR:	55.92 KVA	
		TOTAL DEMAND LOAD			55.9 KVA	155.0 A							POWER:	0.00 KVA	
													TOTAL:	55.92 KVA	

NEW ELECTRICAL PANEL SCHEDULE

PNL: MP-2 | 208Y/120, 3 PHASE, 4 WIRE | 44 ,000MIN A.I.C. SYM | NEUTRAL: 100%
MOUNTING: SURFACE X / (NEMA 1) FLUSH / IN MCC | MAIN LUGS ONLY / DOUBLE LUGS / FEED THRU LUG / SHUNT TRIP MAIN | MAIN C BKR- 350A/3P | MAIN BUS - 400A | GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 24

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA/PHASE A	B	C	KVA/PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	3	RTU-1	3#1/0+1#6G	2	14.0			7.50						3	2
3						14.0			7.50		11/4	3#4+1#8G	RTU-2		4
5	150						14.0			7.50				70	6
7	3	RTU-3	3#4+1#8G	11/4	7.50			0.18			3/4	2#12+1#12G	ROOF GFI	20	8
9						7.50			0.18		3/4	2#12+1#12G	ROOF GFI	20	10
11	70						7.50			1.30				3	12
13	3	RTU-1 CP	3#12+1#12G	3/4	2.20			1.30			3/4	2#12+1#12G	RTU-2-CP		14
15						2.20			1.30					20	16
17	20						2.20			1.30				3	18
19	20	SPARE	-	-				1.30			3/4	2#12+1#12G	RTU-3 CP		20
21	20	SPARE	-	-					1.30					20	22
23	20	SPARE	-	-							-	-	SPARE	20	24
		SUBTOTALS			23.7	23.70	23.7	10.3	10.3	10.1			SUBTOTALS		
		TOTAL LOADS			34.0 KVA	PHASE A							LIGHTING:	0.00 KVA	
					34.0 KVA	PHASE B							RECEPTACLE:	0.00 KVA	
					33.8 KVA	PHASE C							KITCHEN:	0.00 KVA	
		TOTAL CONN. LOAD			101.8 KVA	282.0 A							MOTOR:	101.76 KVA	
		TOTAL DEMAND LOAD			101.8 KVA	282.0 A							POWER:	0.00 KVA	
													TOTAL:	101.76 KVA	

NEW (RETROFIT) ELECTRICAL PANEL SCHEDULE

PANEL: PP-HV-4 | 208Y/120, 3 PHASE, 4 WIRE | 44 ,000MIN A.I.C. SYM | NEUTRAL: 100%
MOUNTING: SURFACE X / (NEMA 1) FLUSH / IN MCC | MAIN LUGS ONLY / DOUBLE LUGS / FEED THRU LUG / SHUNT TRIP MAIN | MAIN C BKR- 400A/3P | MAIN BUS - 400A | GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 30

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA/PHASE A	B	C	KVA/PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	20	EXISTING LOAD	EXIST		0.20			0.40			3/4	2#12+1#12G	LIGHTING	20	2
3	20	EXISTING LOAD	EXIST			0.20						EXIST	EXISTING LOAD	20	4
5	40	EXISTING LOAD	EXIST				0.20					EXIST	EXISTING LOAD	20	6
7	3	EXISTING LOAD	EXIST	-								EXIST	EXISTING LOAD	3	8
9				-											10
11	20			-							-			20	12
13	3	EXISTING LOAD	EXIST	-							-	EXIST	EXISTING LOAD	3	14
15				-							-				16
17	20			-							-			20	18
19	3	HV-1	3#10+1#10G	3/4	1.20			1.20						3	20
21						1.20			1.20		3/4	3#10+1#10G	AHU-1		22
23	30						1.20			1.20				30	24
25	3	MZ-1	3#2+1#6G	1 1/4	7.30						-	EXIST	EXISTING LOAD	3	26
27						7.30					-				28
29	110						7.30				-			20	30
		SUBTOTALS			8.70	8.70	8.70	1.60	1.20	1.20			SUBTOTALS		
		TOTAL LOADS			10.3 KVA	PHASE A							LIGHTING:	0.00 KVA	
					9.9 KVA	PHASE B							RECEPTACLE:	0.00 KVA	
					9.9 KVA	PHASE C							KITCHEN:	0.00 KVA	
		TOTAL CONN. LOAD			30.1 KVA	84.0 A							MOTOR:	29.70 KVA	
		TOTAL DEMAND LOAD			30.1 KVA	84.0 A							POWER:	0.40 KVA	
													TOTAL:	30.10 KVA	

✳ RETROFITTED PANELBOARD REFER TO RISER FOR ADDITIONAL INFORMATION

NEW ELECTRICAL PANEL SCHEDULE

PNL: MP-1 | 208Y/120, 3 PHASE, 4 WIRE | 65 ,000MIN A.I.C. SYM | NEUTRAL: 100%
MOUNTING: SURFACE X / (NEMA 1) FLUSH / IN MCC | MAIN LUGS ONLY / DOUBLE LUGS / FEED THRU LUG / SHUNT TRIP MAIN | MAIN C BKR- 400A/3P | MAIN BUS - 400 A | GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 42

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA/PHASE A	B	C	KVA/PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	2	DOAS-1	2#4+1#8G	1 1/4	5.00			0.50			3/4	2#12+1#12G	DOAS-1 CP	2	2
3	70					5.00			0.50					20	4
5	2	DOAS-2	2#4+1#8G	1 1/4			5.00			0.50	3/4	2#12+1#12G	DOAS-2 CP	2	6
7	70				5.00			0.50						20	8
9	2	FCU-A	2#12+1#12G	3/4		0.30			18.60					3	10
11	20						0.30			18.60	1 1/4	3#4+1#8G	MP-3		12
13	20	SPARE	-	-				18.6						200	14
15	20	SPARE	-	-							-	-	SPARE	20	16
17	20	SPARE	-	-							-	-	SPARE	20	18
19	3	EUH	3#10+1#10G	3/4	1.00						-	-	SPARE	20	20
21						1.00					-	-	SPARE	20	22
23	30						1.00				-	-	SPARE	20	24
25	20	SPARE	-	-							-	-	SPARE	20	26
27	20	SPARE	-	-							-	-	SPARE	20	28
29	20	SPARE	-	-							-	-	SPARE	20	30
		SUBTOTALS			11.00	6.30	6.30	19.6	19.10	19.10			SUBTOTALS		
		TOTAL LOADS			30.6 KVA	PHASE A							LIGHTING:	0.00 KVA	
					25.4 KVA	PHASE B							RECEPTACLE:	0.00 KVA	
					25.4 KVA	PHASE C							KITCHEN:	0.00 KVA	
		TOTAL CONN. LOAD			81 KVA	226.0 A							MOTOR:	81.40 KVA	
		TOTAL DEMAND LOAD			81 KVA	226.0 A							POWER:	0.00 KVA	
													TOTAL:	81.40 KVA	

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

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CONSTRUCTION DOCUMENTS

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HG: 66-10-04-06-0-015-023
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Key Plan

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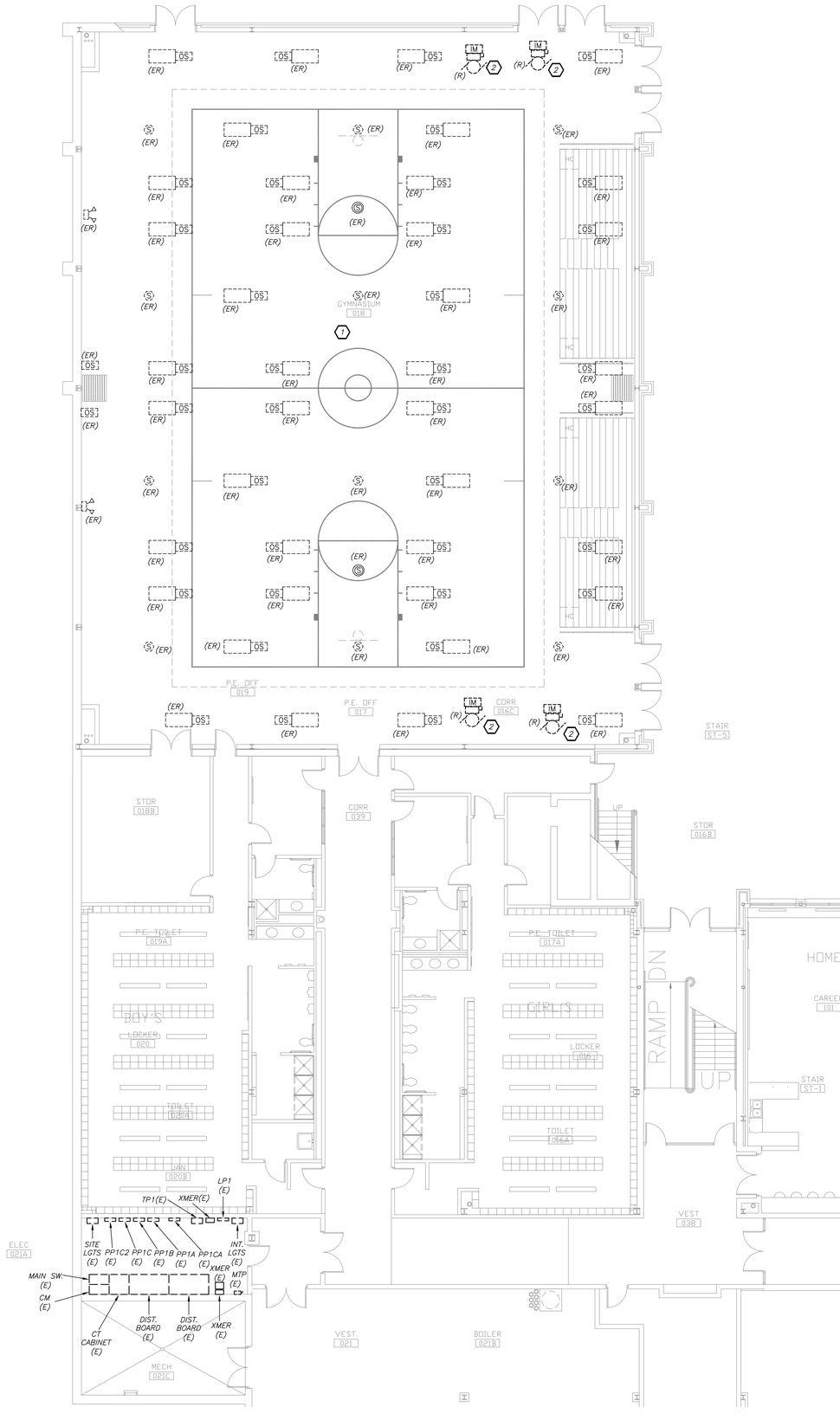
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No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title
ROBERT E. BELL PART POWER RISER AND SCHEDULES

Job No. 2023-1028
Date 10/01/2024
Scale AS NOTED
Drawn / Checked BGA/BGA

Sheet Number
E501-BE



LOWER LEVEL PART REMOVAL PLAN
(REMOVALS & REINSTALLATIONS)

1 / E101

0 8' 16'
1/8 inch=1 foot

N

REMOVAL NOTES:

7 *IN THIS AREA OF WORK, EXISTING LIGHT FIXTURES, SMOKE DETECTORS, PA SPEAKERS SHALL BE REMOVED, BUBBLE WRAP FOR PROTECTION, STORED, CLEANED AND REINSTALLED BY ELECTRICAL CONTRACTOR AFTER THE NEW HVAC DUCT WORK IS INSTALLED. ANY DAMAGE TO ANY DEVICES SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR. ALL WALL MOUNTED DEVICES LOCATED WITHIN 1'-0" OF THE CEILING SUCH AS AMBER ALERT, SCHOOL BELL, EMERGENCY BATTERY PACK LIGHTS SHALL BE REMOVED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. EXTEND EXISTING WIRING/BRANCH CIRCUITRY AND PROVIDE ALL REQUIRED AND NECESSARY JUNCTION BOXES.*

Z *EXISTING BRANCH CIRCUIT (CONDUIT AND WIRE), THERMAL SWITCHES, DISCONNECT SWITCHES, FIRE ALARM DEVICES AND MODULES, ETC., SHALL BE REMOVED IN ITS ENTIRETY BACK TO SOURCE.*

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE
CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
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Key Plan
Seven Bridges Middle School
1 / E101

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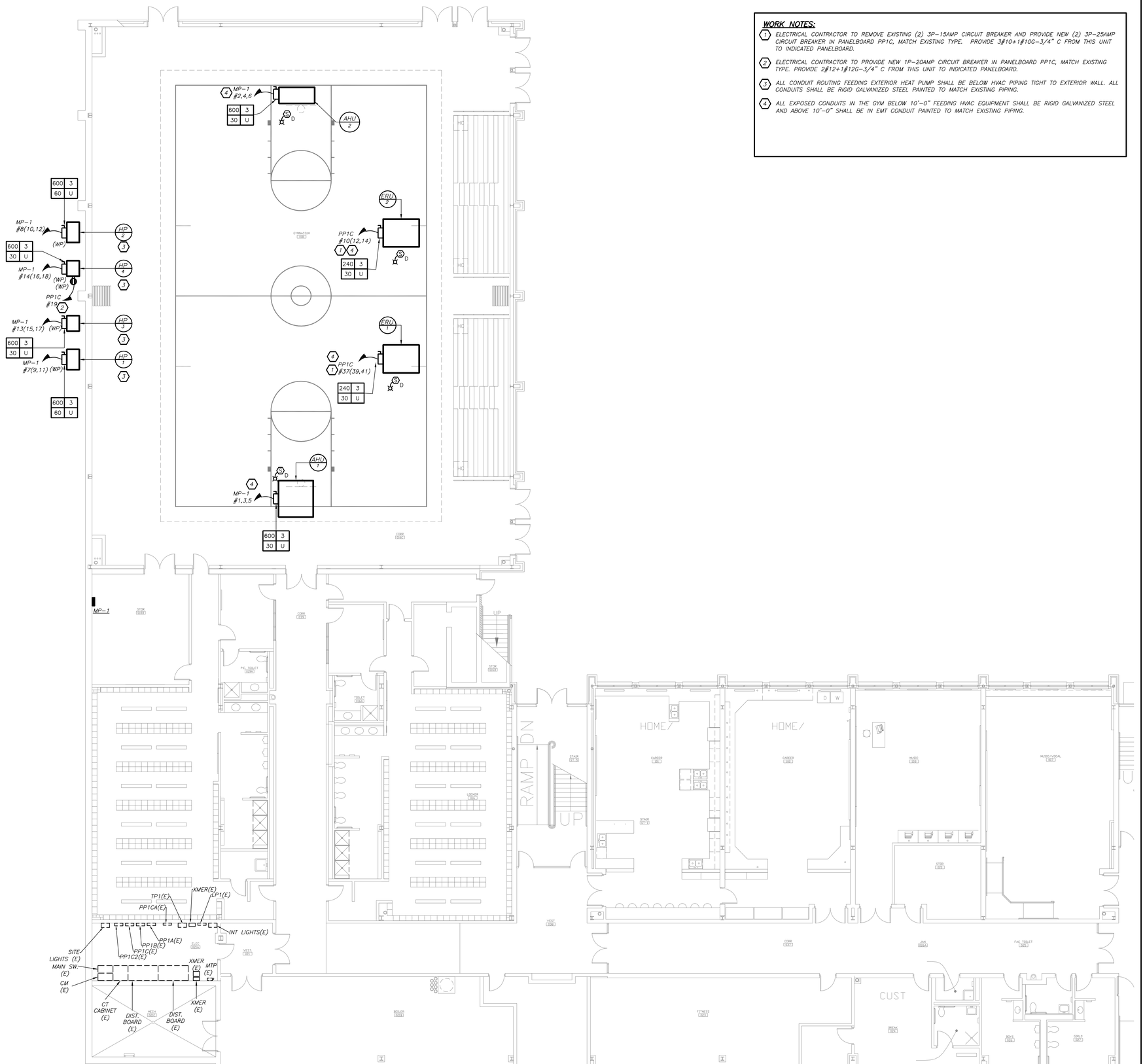
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Sheet Title
SEVEN BRIDGES LOWER LEVEL PART REMOVAL PLAN

Job No. 2023-1028	Sheet Number E101-SB
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



LOWER LEVEL PART POWER PLAN (NEW WORK)

1/8 inch=1 foot

WORK NOTES:

1. ELECTRICAL CONTRACTOR TO REMOVE EXISTING (2) 3P–15AMP CIRCUIT BREAKER AND PROVIDE NEW (2) 3P–25AMP CIRCUIT BREAKER IN PANELBOARD PP1C, MATCH EXISTING TYPE. PROVIDE 3#10+1#10G–3/4" C FROM THIS UNIT TO INDICATED PANELBOARD.
2. ELECTRICAL CONTRACTOR TO PROVIDE NEW 1P–20AMP CIRCUIT BREAKER IN PANELBOARD PP1C, MATCH EXISTING TYPE. PROVIDE 2#12+1#12G–3/4" C FROM THIS UNIT TO INDICATED PANELBOARD.
3. ALL CONDUIT ROUTING FEEDING EXTERIOR HEAT PUMP SHALL BE BELOW HVAC PIPING TIGHT TO EXTERIOR WALL. ALL CONDUITS SHALL BE RIGID GALVANIZED STEEL PAINTED TO MATCH EXISTING PIPING.
4. ALL EXPOSED CONDUITS IN THE GYM BELOW 10'–0" FEEDING HVAC EQUIPMENT SHALL BE RIGID GALVANIZED STEEL AND ABOVE 10'–0" SHALL BE IN EMT CONDUIT PAINTED TO MATCH EXISTING PIPING.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

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Chappaqua, NY 10514

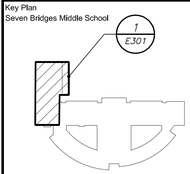
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Key Plan
Seven Bridges Middle School



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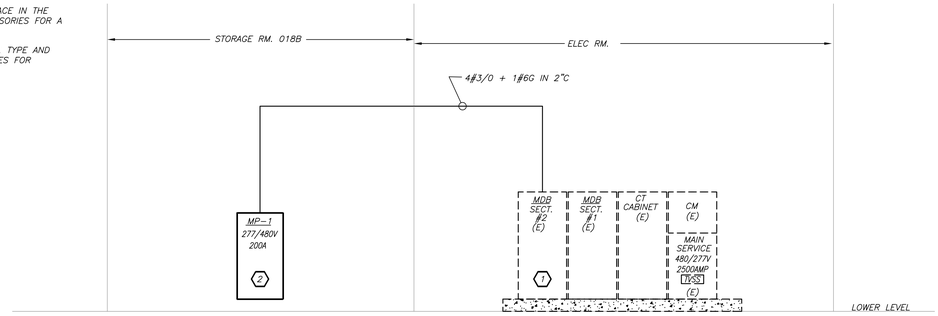
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SEVEN BRIDGES LOWER LEVEL PART POWER PLAN

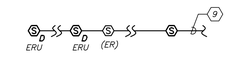
Job No. 2023-1028	Sheet Number E301-SB
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WORK NOTES.

1. PROVIDE NEW 480/277V, 200 AMP 3PH, 4W CIRCUIT BREAKER IN THE AVAILABLE SPACE IN THE MAIN SWITCHBOARD, MATCH EXISTING. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION.
2. NEW 480/277V 3PH, 4W PANELBOARD. REFER TO PANEL SCHEDULE FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION.



PARTIAL POWER RISER DIAGRAM 1/E501 N.T.S.



FIRE ALARM RISER NOTES:

1. FIRE ALARM WIRING DIAGRAMS SHOWN ARE FOR GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY AND OBTAIN POINT TO POINT WIRING DIAGRAM PRIOR TO INSTALLATION FROM MANUFACTURER.
2. PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
3. IN AREAS WHERE DUST AND DIRT WILL BE AIRBORNE DURING DEMOLITION AND CONSTRUCTION THE CONTRACTOR SHALL PROVIDE PLASTIC WRAP OVER SMOKE DETECTORS AND THEN REMOVE ONCE SPACE IS CLEAN.
4. UNLESS DIRECTED OTHERWISE BY FIRE ALARM SYSTEM MANUFACTURER FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY):

   SIGNAL WIRING – #14 AWG TWISTED/SHIELDED APPROVED TEFLON CABLE

   THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
   A. A MINIMUM TEMPERATURE RATING OF 150 C
   B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS
   C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS
   D. THE COLOR OF THE CABLE SHALL BE RED
   E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE)
   F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.

   CONFIRM WIRING TYPE AND QUANTITY WITH FIRE ALARM SYSTEM MANUFACTURER PRIOR TO PURCHASING.
5. ALL FIRE ALARM CABLE SHALL BE PLENUM RATED AND RUN IN EMT CONDUIT.
6. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
7. SHUTDOWN OF HVAC SYSTEM EQUIPMENT (NOT LIMITED TO, ROOF TOP, EXHAUST FANS, ETC.) OF 1000 CFM OR GREATER, SHALL BE PERFORMED VIA A RELAY INTERFACE SYSTEM. SEND SIGNAL TO BUILDING AUTOMATED TEMPERATURE CONTROL (ATC) SYSTEM INDICATING SHUTDOWN HAS OCCURRED. EQUIPMENT RESTART SHALL BE BY BUILDING "ATC" SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
8. PROVIDE DEVICE ADDRESS WITH A PERMANENT TYPE LABEL FOR ALL INITIATING DEVICES.

9. CONNECT NEW FIRE ALARM DEVICES TO NEAREST EXISTING FIRE ALARM DEVICE CIRCUIT. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION FOR REQUIRED INSTALLATION METHOD.

PART F.A. RISER DIAGRAM 2/E501 N.T.S.

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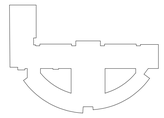
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Key Plan
Seven Bridges Middle School



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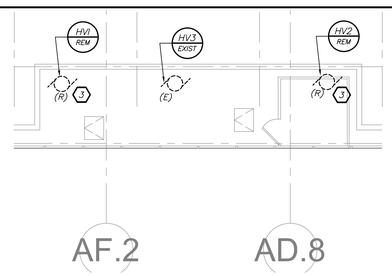
SEVEN BRIDGES RISER & SCHEDULE

Job No. 2023-1028	Sheet Number E501-SB
Date 10/01/2024	
Scale AS NOTED	
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BUILDING "A" REMOVAL PLAN
(REMOVAL & REINSTALLATION)

1 / E101 — 0, 8', 16' — 1/8 inch=1 foot



BUILDING "A" ATTIC SPACE REMOVAL PLAN
(REMOVALS)

2 / E101 — 0, 8', 16' — 1/8 inch=1 foot

REMOVAL WORK NOTES:

1. *IN THIS AREA OF WORK, EXISTING LIGHT FIXTURES, SMOKE DETECTORS, PA SPEAKERS SHALL BE REMOVED, BUBBLE WRAP FOR PROTECTION, STORED, CLEANED AND REINSTALLED BY ELECTRICAL CONTRACTOR AFTER THE NEW HVAC DUCT WORK IS INSTALLED. ANY DAMAGE TO ANY DEVICES SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR. ALL WALL MOUNTED DEVICES LOCATED WITHIN 1'-0" OF THE CEILING SUCH AS AMBER ALERT, SCHOOL BELL, EMERGENCY BATTERY PACK LIGHTS SHALL BE REMOVED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. EXTEND EXISTING WIRING/BRANCH CIRCUITRY AND PROVIDE ALL REQUIRED AND NECESSARY JUNCTION BOXES.*
2. *EXISTING DISCONNECT SWITCHES FOR BATTING NETS SHALL BE REMOVED, CLEANED, STORED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. IT WILL BE E.C. RESPONSIBILITY TO TEST BATTING CAGES BEFORE DISCONNECTING AND PROVIDE COMPLETE OPERATIONAL SYSTEM AFTER REINSTALLATION.*
3. *EXISTING BRANCH CIRCUIT (CONDUIT AND WIRE), THERMAL SWITCHES, DISCONNECTS SWITCHES SHALL BE REMOVED IN ITS ENTIRETY BACK TO SOURCE FOR HVAC EQUIPMENT THAT ARE BEING DEMOLISHED.*
4. *EXISTING DISCONNECTS, THERMAL SWITCHES FOR BASKETBALL WENCH SHALL BE REMOVED, CLEANED, STORED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. COIL UP AND SECURE ALL EXISTING BRANCH WIRING DURING DEMO AND NEW HVAC WORK INSTALLATION.*

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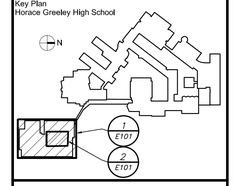
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CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

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CONSULTING ENGINEERS
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914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Key Plan
Horace Greeley High School



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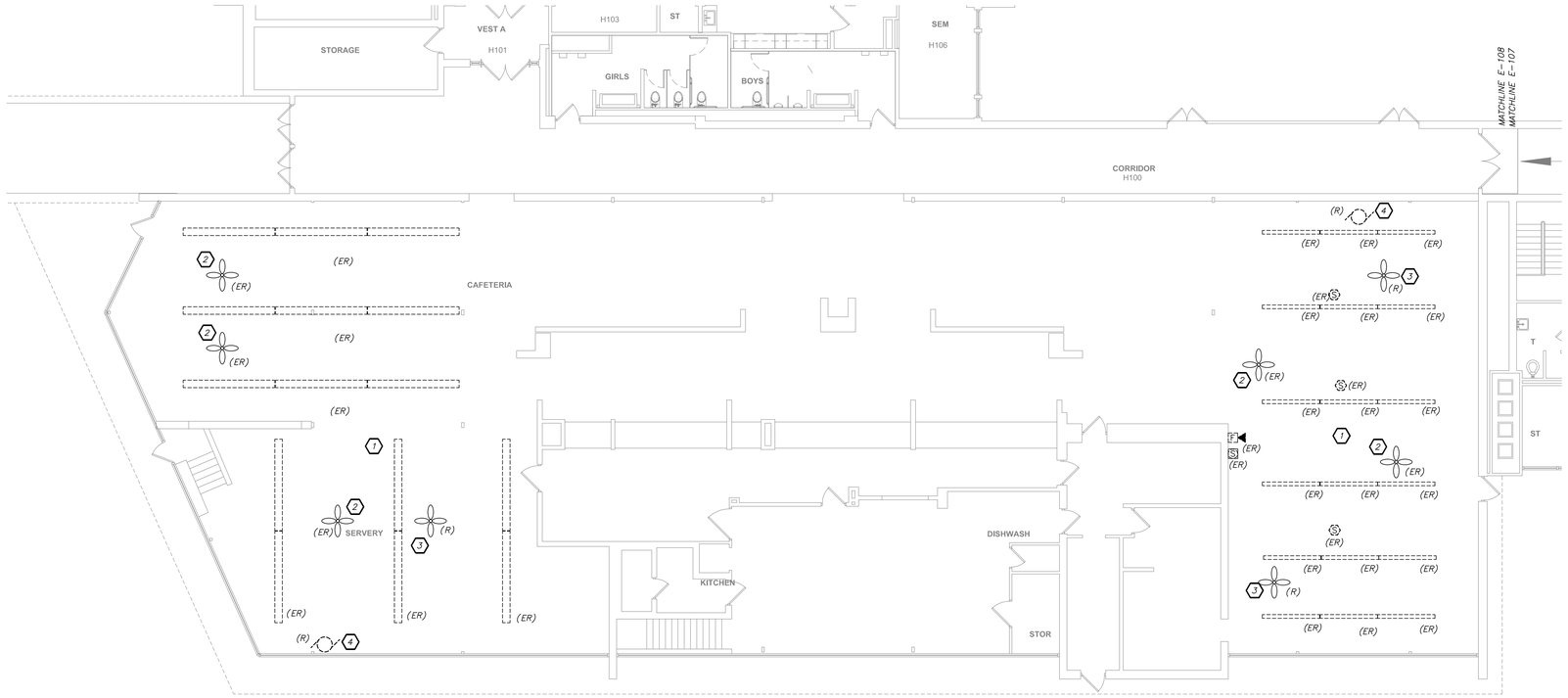
Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

HORACE GREELEY BUILDING "A" REMOVAL PLAN

Job No. 2023-1028	Sheet Number E101-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



BUILDING 'H' CAFETERIA REMOVAL PLAN

(REMOVAL & REINSTALLATION)

1 / E102

0 8' 16'

1/8 inch=1 foot

N

REMOVAL WORK NOTES:

1. IN THIS AREA OF WORK, EXISTING LIGHT FIXTURES, SMOKE DETECTORS, PA SPEAKERS SHALL BE REMOVED, BUBBLE WRAP FOR PROTECTION, STORED, CLEANED AND REINSTALLED BY ELECTRICAL CONTRACTOR AFTER THE NEW HVAC DUCT WORK IS INSTALLED. ANY DAMAGE TO ANY DEVICES SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR. ALL WALL MOUNTED DEVICES LOCATED WITHIN 1'-0" OF THE CEILING SUCH AS AMBER ALERT, SCHOOL BELL, EMERGENCY BATTERY PACK LIGHTS SHALL BE REMOVED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. EXTEND EXISTING WIRING/BRANCH CIRCUITRY AND PROVIDE ALL REQUIRED AND NECESSARY JUNCTION BOXES.
2. EC SHALL REMOVE, BUBBLE WRAP FOR PROTECTION, CLEAN AND REINSTALL EXITING CEILING FANS AFTER NEW HVAC DUCT WORK IS INSTALLED.
3. EXISTING BRANCH CIRCUIT (CONDUIT AND WIRE), TOGGLE SWITCHES SHALL BE REMOVED IN ITS ENTIRETY BACK TO SOURCE FOR CEILING MOUNTED FANS.
4. EXISTING BRANCH CIRCUIT(CONDUIT AND WIRE), THERMAL SWITCHES, DISCONNECTS SWITCHES SHALLBE REMOVED IN ITS ENTIRETY BACK TO SOURCE FOR ALL HVAC EQUIPMENT.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE
CAPITAL IMPROVEMENTS

HIGH SCHOOL &
MIDDLE SCHOOL
HVAC UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

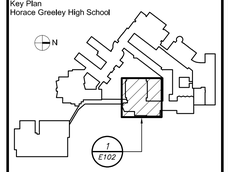
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CONSTRUCTION DOCUMENTS

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BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

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Key Plan
Horace Greeley High School



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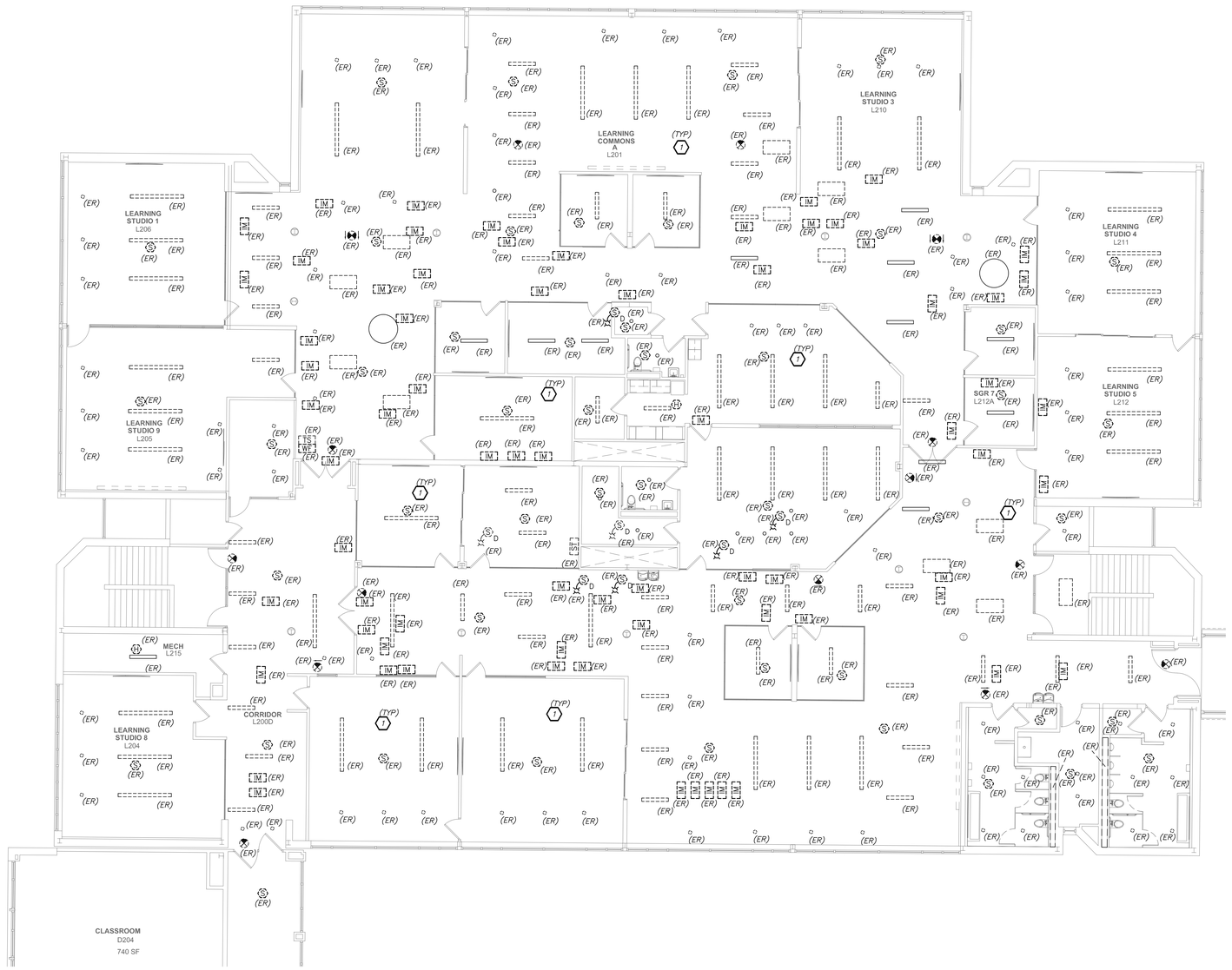
Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title
HORACE GREELEY
BUILDING "H"
REMOVAL PLAN

Job No. 2023-1028
Date 10/01/2024
Scale AS NOTED
Drawn / Checked BGA/BGA

Sheet Number
E102-HG



BUILDING "L" MAIN LEVEL REMOVAL PLAN
(REMOVAL & REINSTALLATION)

1 / E103

0 8' 16'
1/8 inch=1 foot

REMOVAL WORK NOTES:

1. IN THIS AREA OF WORK, EXISTING LIGHT FIXTURES, SMOKE DETECTORS, PA SPEAKERS SHALL BE REMOVED, BUBBLE WRAP FOR PROTECTION, STORED, CLEANED AND REINSTALLED BY ELECTRICAL CONTRACTOR AFTER THE NEW HVAC DUCT WORK IS INSTALLED. ANY DAMAGE TO ANY DEVICES SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR. ALL WALL MOUNTED DEVICES LOCATED WITHIN 1'-0" OF THE CEILING SUCH AS AMBER ALERT, SCHOOL BELL, EMERGENCY BATTERY PACK LIGHTS SHALL BE REMOVED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. EXTEND EXISTING WIRING/BRANCH CIRCUITRY AND PROVIDE ALL REQUIRED AND NECESSARY JUNCTION BOXES.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE
CAPITAL IMPROVEMENTS

HIGH SCHOOL &
MIDDLE SCHOOL
HVAC UPGRADES

CHAPPAQUA CENTRAL
SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

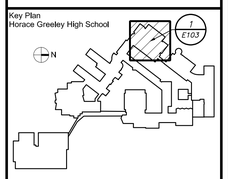
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CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
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Key Plan
Horace Greeley High School



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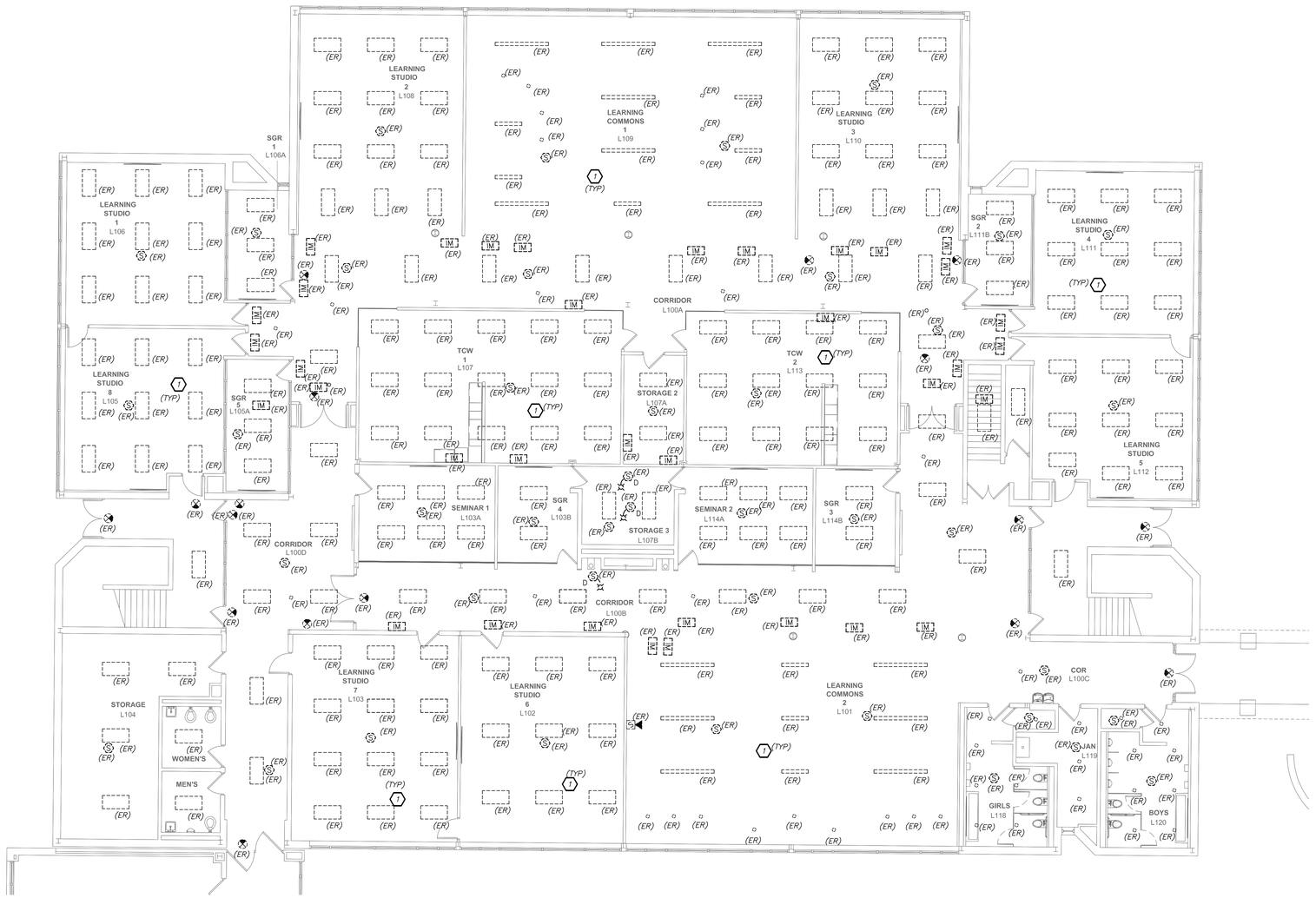
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4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title
HORACE GREELEY BUILDING "L" MAIN LEVEL REMOVAL PLAN

Job No. 2023-1028	Sheet Number E103-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



BUILDING "L" LOWER LEVEL REMOVAL PLAN
(REMOVAL & REINSTALLATION)

1 / E104 — 0 8' 16' — 1/8 inch=1 foot — N

REMOVAL WORK NOTES:

(1) *IN THIS AREA OF WORK, EXISTING LIGHT FIXTURES, SMOKE DETECTORS, PA SPEAKERS SHALL BE REMOVED, BUBBLE WRAP FOR PROTECTION, STORED, CLEANED AND REINSTALLED BY ELECTRICAL CONTRACTOR AFTER THE NEW HVAC DUCT WORK IS INSTALLED. ANY DAMAGE TO ANY DEVICES SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR. ALL WALL MOUNTED DEVICES LOCATED WITHIN 1'-0" OF THE CEILING SUCH AS AMBER ALERT, SCHOOL BELL, EMERGENCY BATTERY PACK LIGHTS SHALL BE REMOVED AND REINSTALLED AFTER NEW HVAC DUCT WORK IS INSTALLED. EXTEND EXISTING WIRING/BRANCH CIRCUITRY AND PROVIDE ALL REQUIRED AND NECESSARY JUNCTION BOXES.*

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

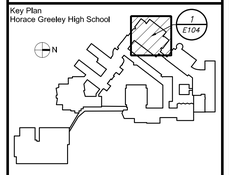
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CONSTRUCTION DOCUMENTS

SED Control No.
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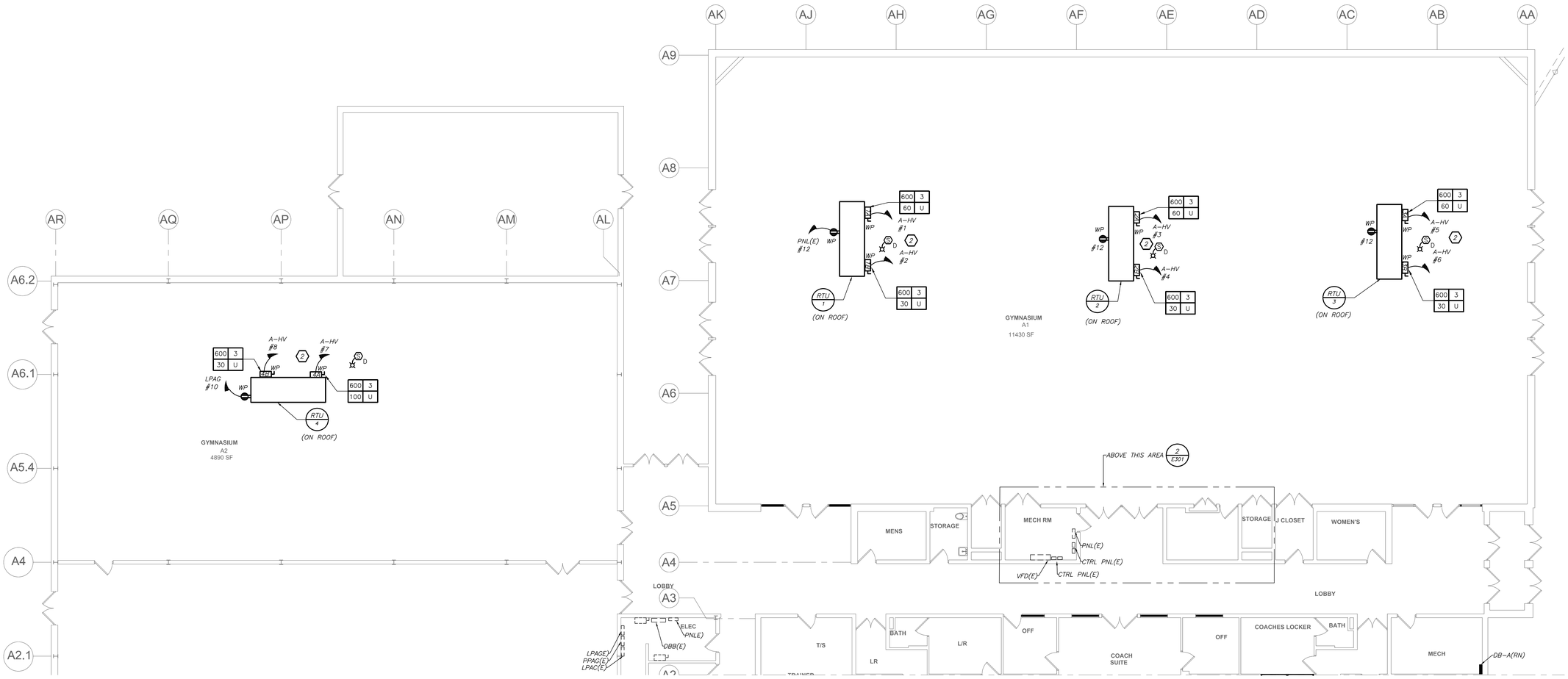
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1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

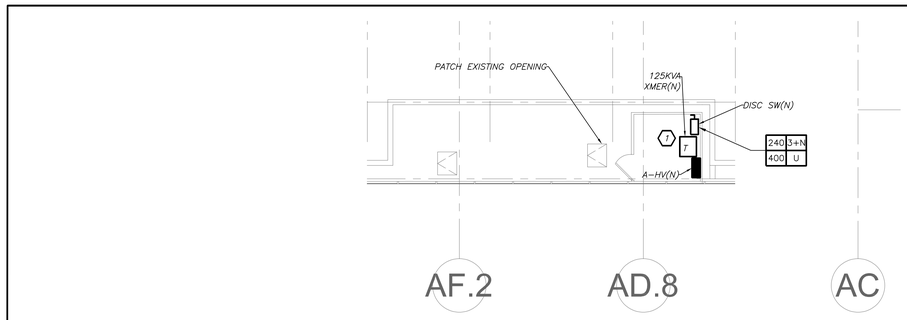
HORACE GREELEY BUILDING "L" LOWER LEVEL REMOVAL PLAN

Job No. 2023-1028	Sheet Number E104-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



BUILDING "A" POWER PLAN (NEW WORK)

1 E301 — 0, 8', 16' — 1/8 inch=1 foot



BUILDING "A" ATTIC SPACE POWER PLAN (NEW WORK)

2 E301 — 0, 8', 16' — 1/8 inch=1 foot

WORK NOTES:

1. *EC SHALL MAINTAIN EXISTING POWER AND DATA CONDUITS, EXPOSED DATA WIRING, PULLBOXES ETC AT THE TIME EQUIPMENT INSTALLATIONS.*
2. *HVAC BRANCH FEEDERS ROUTED ON THE ROOF SHALL FOLLOW THE PATH OF PIPE PORTALS PROVIDED BY HVAC CONTRACTOR.*

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

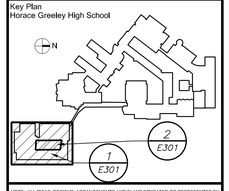
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CONSTRUCTION DOCUMENTS

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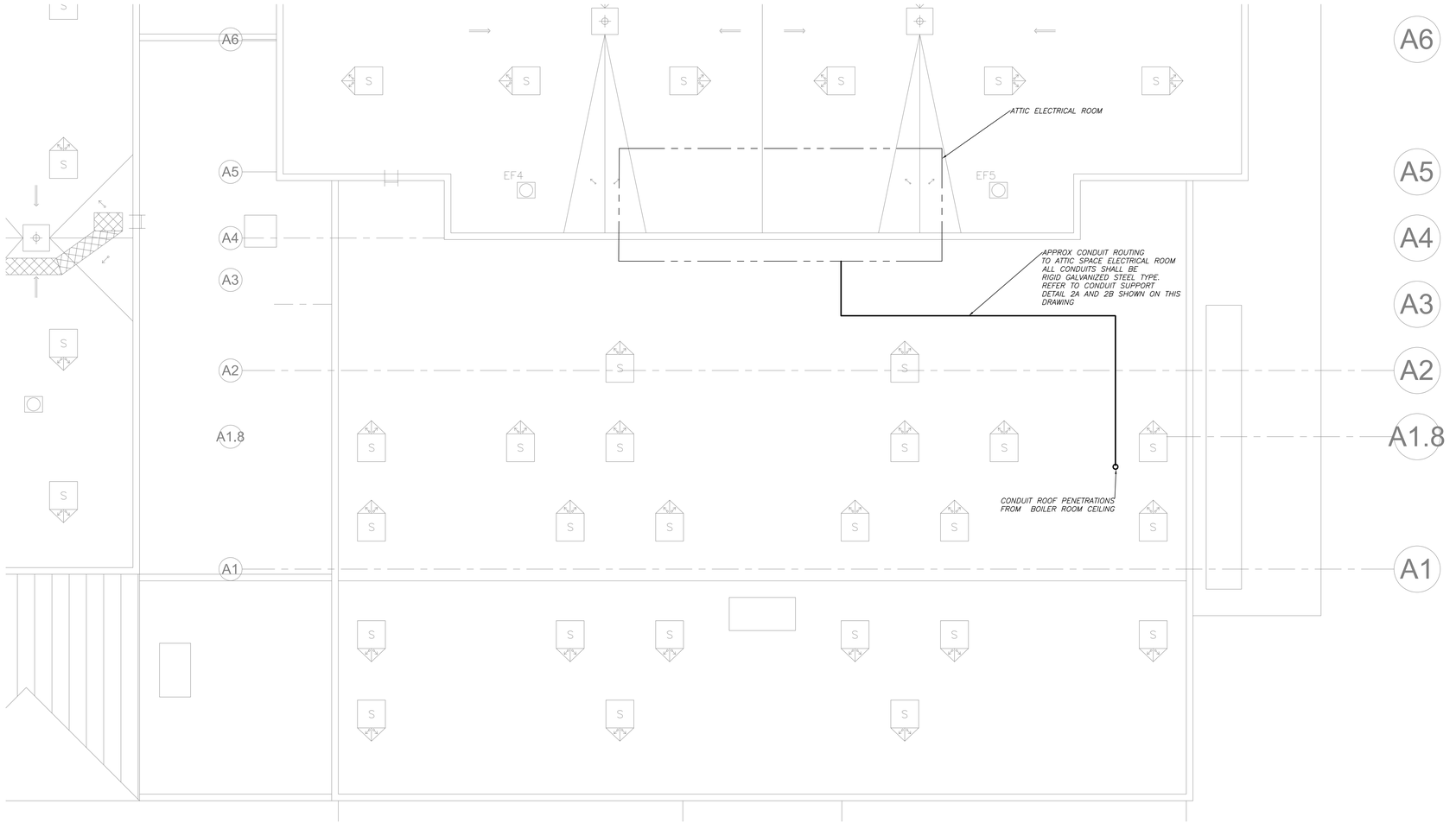
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Sheet Title

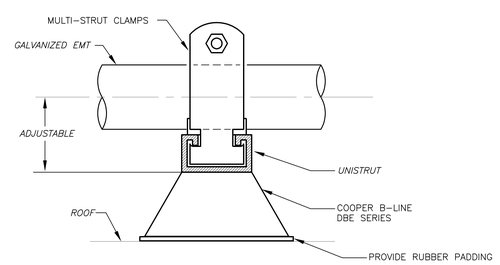
HORACE GREELEY BUILDING "A" POWER PLAN

Job No. 2023-1028	Sheet Number E301-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	

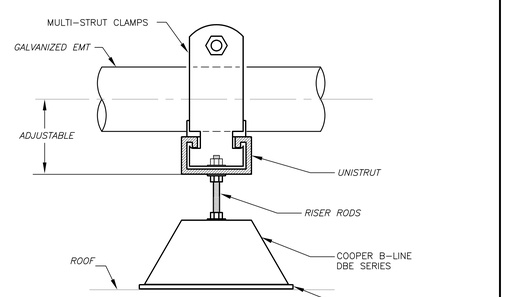


BUILDING "A" ROOF PLAN (1/E302) — 0, 8", 16" — 1/8 inch=1 foot

(NEW WORK)



CONDUIT SUPPORT AT ROOF DETAIL (2A/E302) NO SCALE



CONDUIT SUPPORT AT ROOF DETAIL (2B/E302) NO SCALE

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

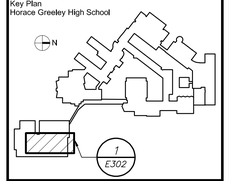
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Key Plan
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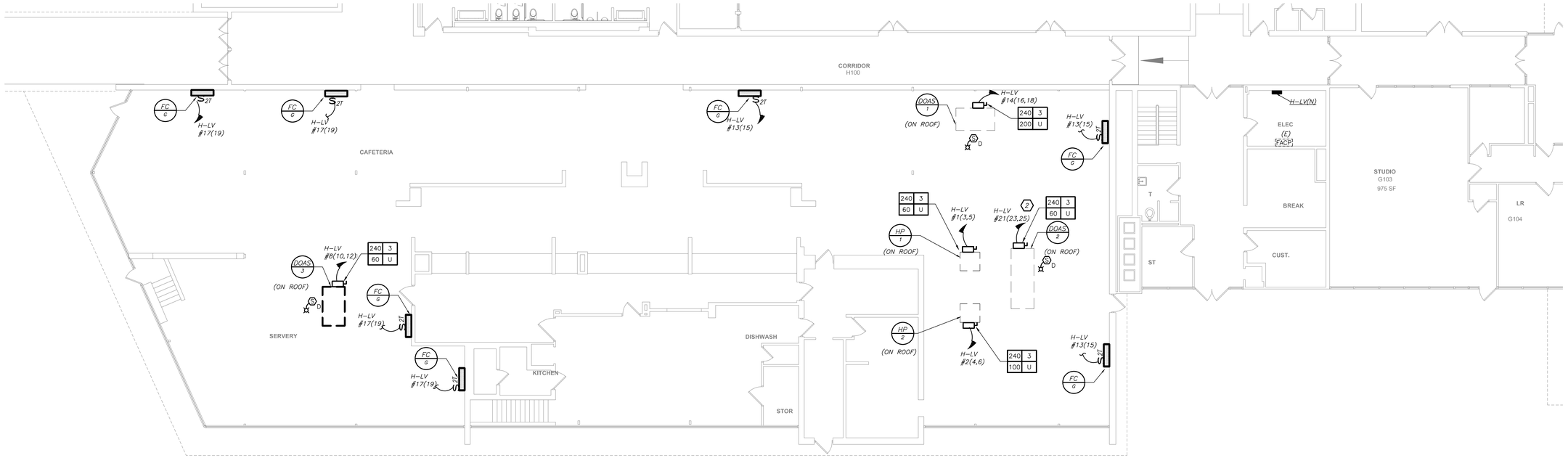
Professional Seal

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1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

HORACE GREELEY BUILDING "A" ROOF PLAN

Job No. 2023-1028	Sheet Number E302-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	

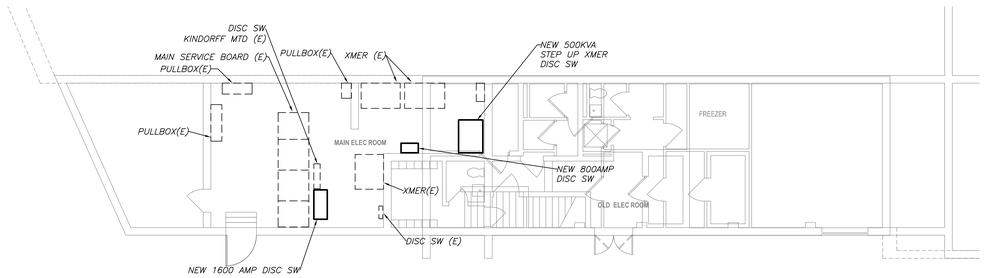


BUILDING 'H' CAFETARIA POWER PLAN (NEW WORK)

1 / E303

0 8' 16'
1/8 inch=1 foot

N



BUILDING 'H' FLECTRICAL ROOM POWER PLAN (NEW WORK)

2 / E303

0 8' 16'
1/8 inch=1 foot

N

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE
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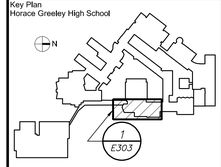
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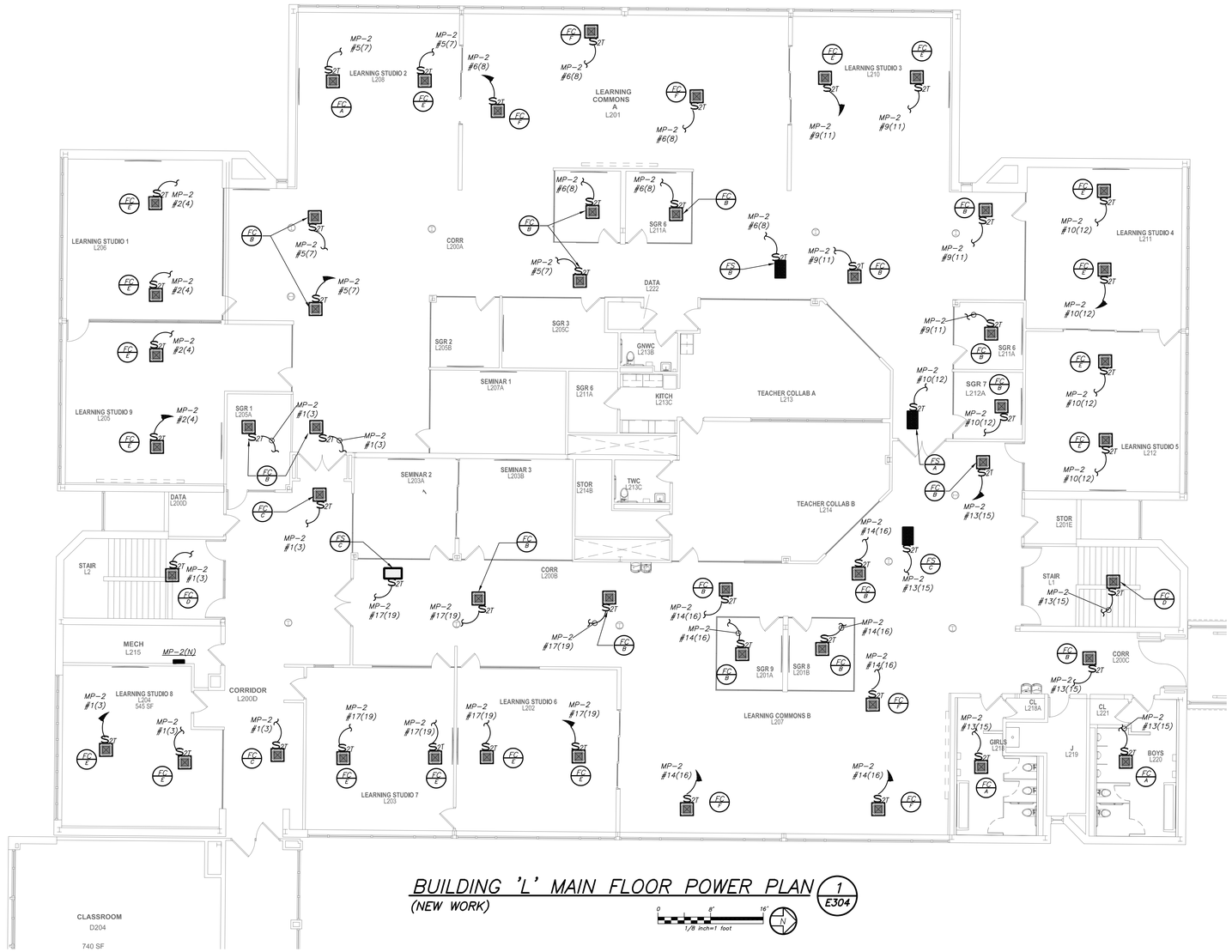
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1	06/10/2023	SCHEMATIC DESIGN

Sheet Title
HORACE GREELEY
BUILDING "H"
POWER PLAN

Job No. 2023-1028
Date 10/01/2024
Scale AS NOTED
Drawn / Checked BGA/BGA

Sheet Number
E303-HG



BUILDING 'L' MAIN FLOOR POWER PLAN (NEW WORK)

1 E304

0 8" 16"

1/8 inch=1 foot

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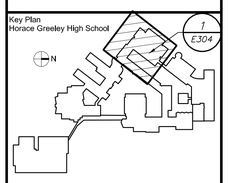
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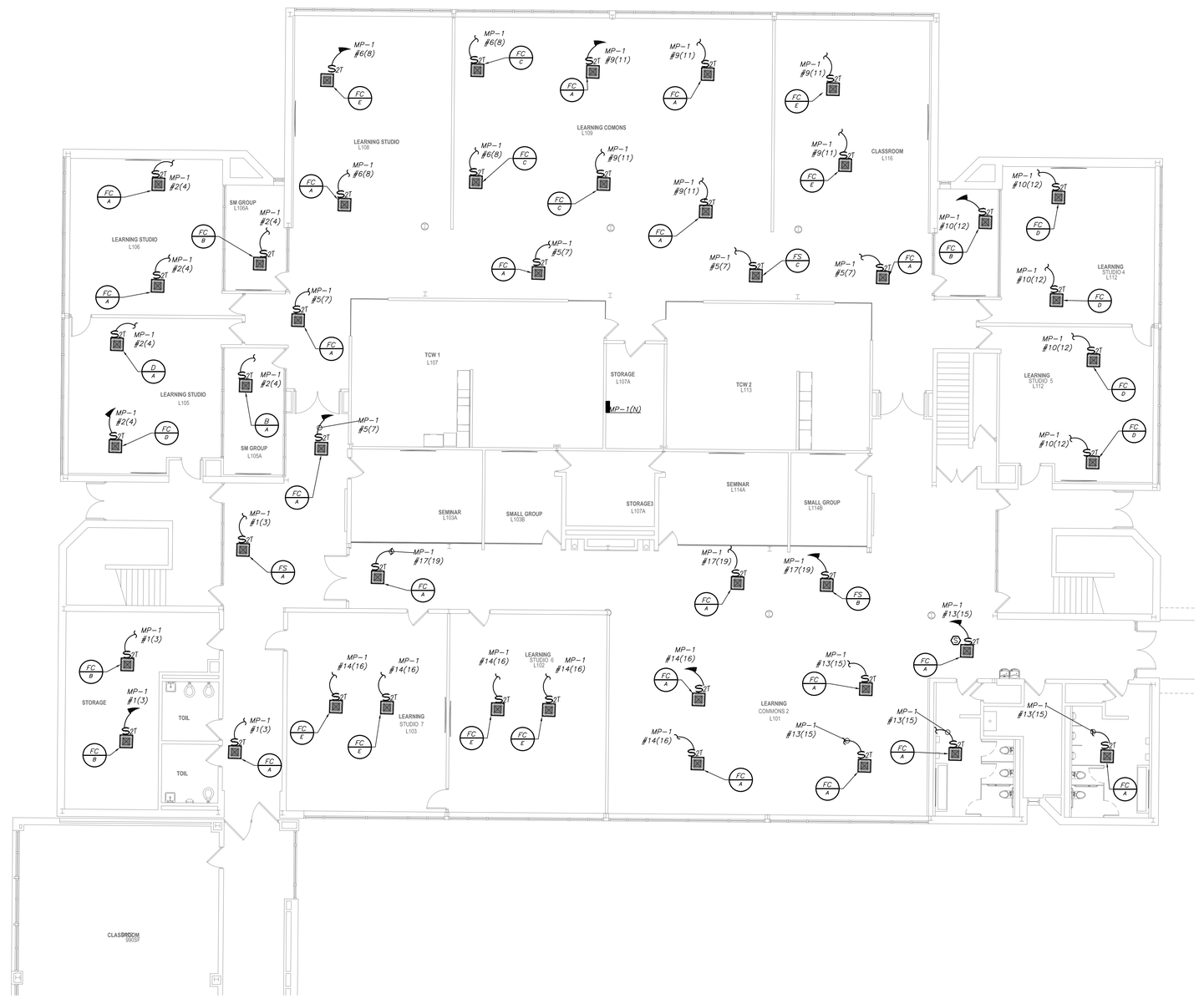
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Sheet Title
HORACE GREELEY BUILDING "L" MAIN LVL POWER PLAN

Job No. 2023-1028	Sheet Number E304-HG
Date 10/01/2024	
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BUILDING 'L' LOWER LEVEL POWER PLAN (NEW WORK)

1/8 inch=1 foot

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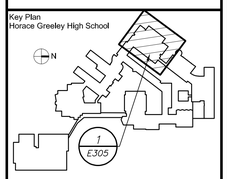
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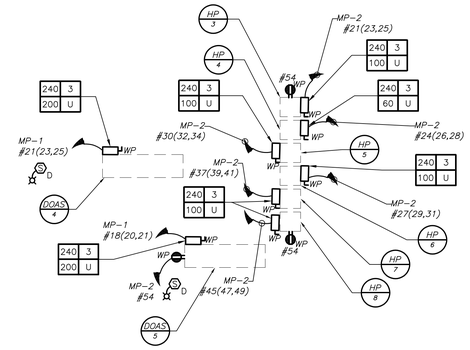
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Sheet Title

HORACE GREELEY
BUILDING "L"
LOWER LVL
POWER PLAN

Job No. 2023-1028	Sheet Number E305-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	



BUILDING 'L' ROOF POWERPLAN 1 E306

0 10'-8" 21'-4"
3/32 inch=1 foot



BUILDING 'L' LOWER LEVEL POWERPLAN 2 E306

0 10'-8" 21'-4"
3/32 inch=1 foot

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DBE: TAB: Layout1 — C:\Users\VKale\AppData\Local\Temp\AcPublish_32552\233200E306.dwg — DATE: Oct 02, 2024 — 5:44pm

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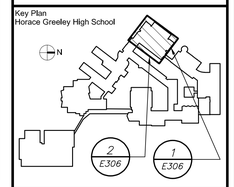
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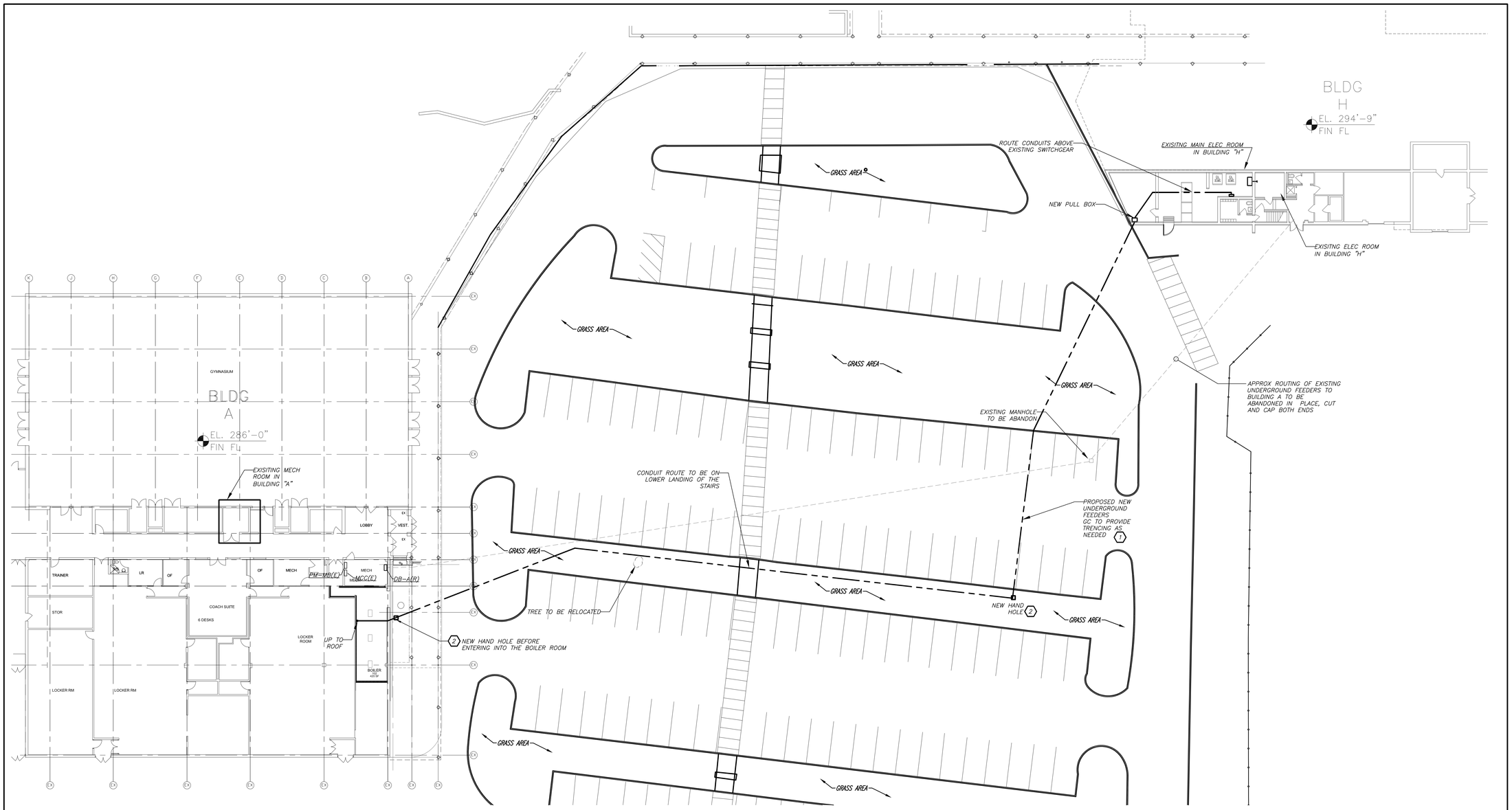
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HORACE GREELEY BUILDING "L" ROOF & BSMT POWER PLAN

Job No. 2023-1028
Date 10/01/2024
Scale AS NOTED
Drawn / Checked BGA/BGA

Sheet Number
E306-HG



PARTIAL SITE PLAN (NEW WORK)
1 E307
0 16' 32'
1/16 inch=1 foot

WORK NOTES:

1. SITE CONTRACTOR SHALL MARK OUT ALL THE UNDERGROUND UTILITIES BEFORE THE START IF ANY TRENCH WORK. EC SHALL COORDINATE WITH SITE CONTRACTOR AND MARK OUT EXACT CONDUIT ROUTING FOR NEW WORK. A SITE MEETING SHALL BE SET UP TO REVIEW THE MARK OUTS WITH DESIGN TEAM INCLUDING CONSTRUCTION MANAGER, ARCHITECT, ELECTRICAL ENGINEER AND SITE ENGINEER. ALL SITE WORK SHALL START ONLY AFTER FINAL CONDUIT ROUTING APPROVAL FROM ALL PARTIES.
2. PROVIDE NEW QUAZITE H20 RATED UNDERGROUND ENCLOSURE MIN SIZE OF 30"WX30"LX30"H

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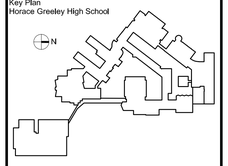
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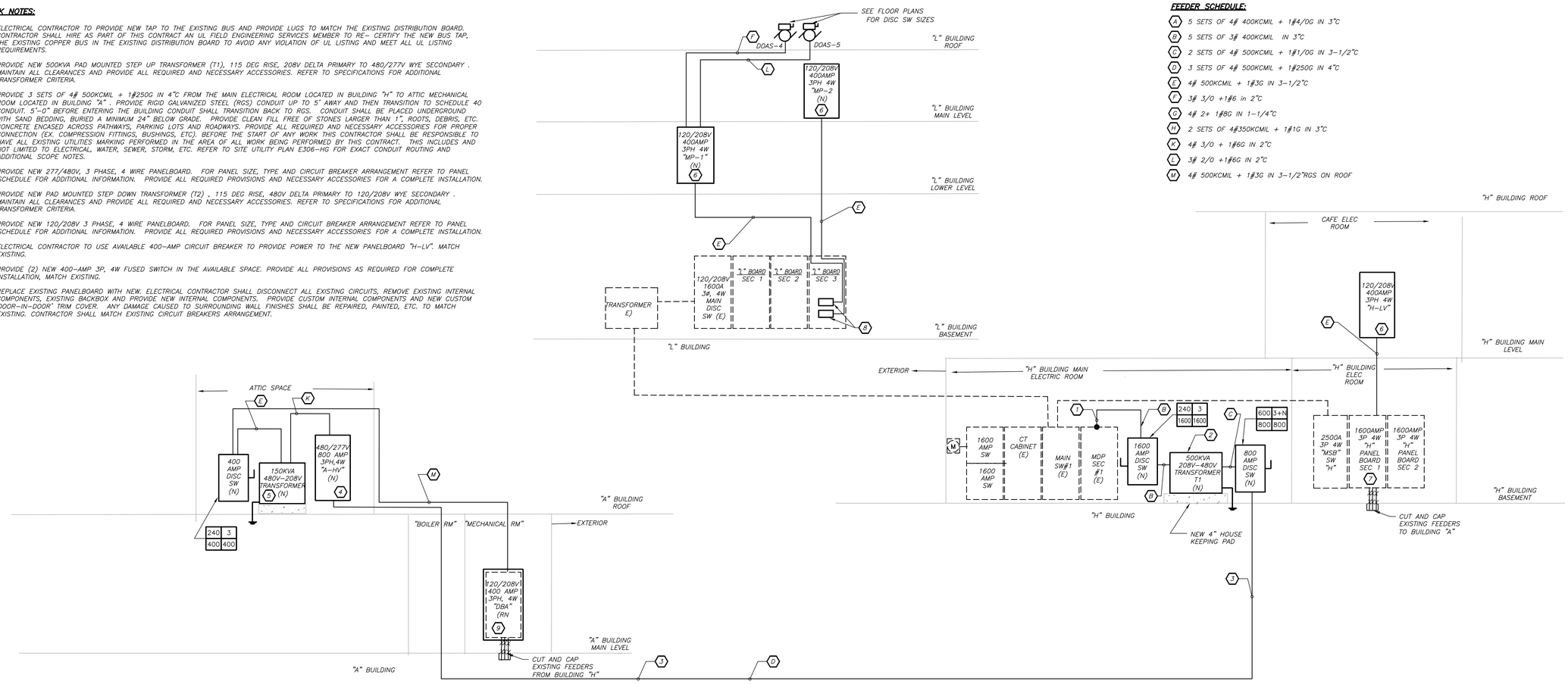
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HORACE GREELEY PARTIAL SITE PLAN

Job No. 2023-1028	Sheet Number E307-HG
Date 10/01/2024	
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WORK NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE NEW TAP TO THE EXISTING BUS AND PROVIDE LUGS TO MATCH THE EXISTING DISTRIBUTION BOARD. CONTRACTOR SHALL HIRE AS PART OF THIS CONTRACT AN UL FIELD ENGINEERING SERVICES MEMBER TO RE- CERTIFY THE NEW BUS TAP, THE EXISTING COPPER BUS IN THE EXISTING DISTRIBUTION BOARD TO AVOID ANY VIOLATION OF UL LISTING AND MEET ALL UL LISTING REQUIREMENTS.
2. PROVIDE NEW 500KVA PAD MOUNTED STEP UP TRANSFORMER (T1), 115 DEG RISE, 208V DELTA PRIMARY TO 480/277V WYE SECONDARY . MAINTAIN ALL CLEARANCES AND PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES. REFER TO SPECIFICATIONS FOR ADDITIONAL TRANSFORMER CRITERIA.
3. PROVIDE 3 SETS OF 4# 500KCMIL + 1#250G IN 4"C FROM THE MAIN ELECTRICAL ROOM LOCATED IN BUILDING "H" TO ATTIC MECHANICAL ROOM LOCATED IN BUILDING "A" . PROVIDE RIGID GALVANIZED STEEL (RGS) CONDUIT UP TO 5' AWAY AND THEN TRANSITION TO SCHEDULE 40 CONDUIT. 5'-0" BEFORE ENTERING THE BUILDING CONDUIT SHALL TRANSITION BACK TO RGS. CONDUIT SHALL BE PLACED UNDERGROUND WITH SAND BEDDING, BURIED A MINIMUM 24" BELOW GRADE. PROVIDE CLEAN FILL FREE OF STONES LARGER THAN 1". ROOTS, DEBRIS, ETC. CONCRETE ENCASED ACROSS PATHWAYS, PARKING LOTS AND ROADWAYS. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES FOR PROPER CONNECTION (EX. COMPRESSION FITTINGS, BUSHINGS, ETC). BEFORE THE START OF ANY WORK THIS CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL EXISTING UTILITIES MARKING PERFORMED IN THE AREA OF ALL WORK BEING PERFORMED BY THIS CONTRACT. THIS INCLUDES AND NOT LIMITED TO ELECTRICAL, WATER, SEWER, STORM, ETC. REFER TO SITE UTILITY PLAN E306-HG FOR EXACT CONDUIT ROUTING AND ADDITIONAL SCOPE NOTES.
4. PROVIDE NEW 277/480V, 3 PHASE, 4 WIRE PANELBOARD. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED PROVISIONS AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION.
5. PROVIDE NEW PAD MOUNTED STEP DOWN TRANSFORMER (T2) , 115 DEG RISE, 480V DELTA PRIMARY TO 120/208V WYE SECONDARY . MAINTAIN ALL CLEARANCES AND PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES. REFER TO SPECIFICATIONS FOR ADDITIONAL TRANSFORMER CRITERIA.
6. PROVIDE NEW 120/208V 3 PHASE, 4 WIRE PANELBOARD. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED PROVISIONS AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION.
7. ELECTRICAL CONTRACTOR TO USE AVAILABLE 400-AMP CIRCUIT BREAKER TO PROVIDE POWER TO THE NEW PANELBOARD "H-LV". MATCH EXISTING.
8. PROVIDE (2) NEW 400-AMP 3P, 4W FUSED SWITCH IN THE AVAILABLE SPACE. PROVIDE ALL PROVISIONS AS REQUIRED FOR COMPLETE INSTALLATION, MATCH EXISTING.
9. REPLACE EXISTING PANELBOARD WITH NEW. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL EXISTING CIRCUITS, REMOVE EXISTING INTERNAL COMPONENTS, EXISTING BACKBOX AND PROVIDE NEW INTERNAL COMPONENTS. PROVIDE CUSTOM INTERNAL COMPONENTS AND NEW CUSTOM "DOOR-IN-DOOR" TRIM COVER. ANY DAMAGE CAUSED TO SURROUNDING WALL FINISHES SHALL BE REPAIRED, PAINTED, ETC. TO MATCH EXISTING. CONTRACTOR SHALL MATCH EXISTING CIRCUIT BREAKERS ARRANGEMENT.



HORACE GREELEY HIGH SCHOOL PARTIAL POWER RISER DIAGRAM (1 / E501)

FEEDER SCHEDULE:

- A: 5 SETS OF 4# 400KCMIL + 1#4/0G IN 3"C
- B: 5 SETS OF 3# 400KCMIL IN 3"C
- C: 2 SETS OF 4# 500KCMIL + 1#1/0G IN 3-1/2"C
- D: 3 SETS OF 4# 500KCMIL + 1#250G IN 4"C
- E: 4# 500KCMIL + 1#3G IN 3-1/2"C
- F: 3# 3/0 +1#6 in 2"C
- G: 4# 2+ 1#8G IN 1-1/4"C
- H: 2 SETS OF 4#350KCMIL + 1#1G IN 3"C
- K: 4# 3/0 + 1#6G IN 2"C
- L: 3# 2/0 +1#6G IN 2"C
- M: 4# 500KCMIL + 1#3G IN 3-1/2"RGS ON ROOF

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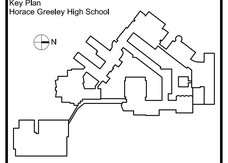
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HORACE GREELEY POWER RISER

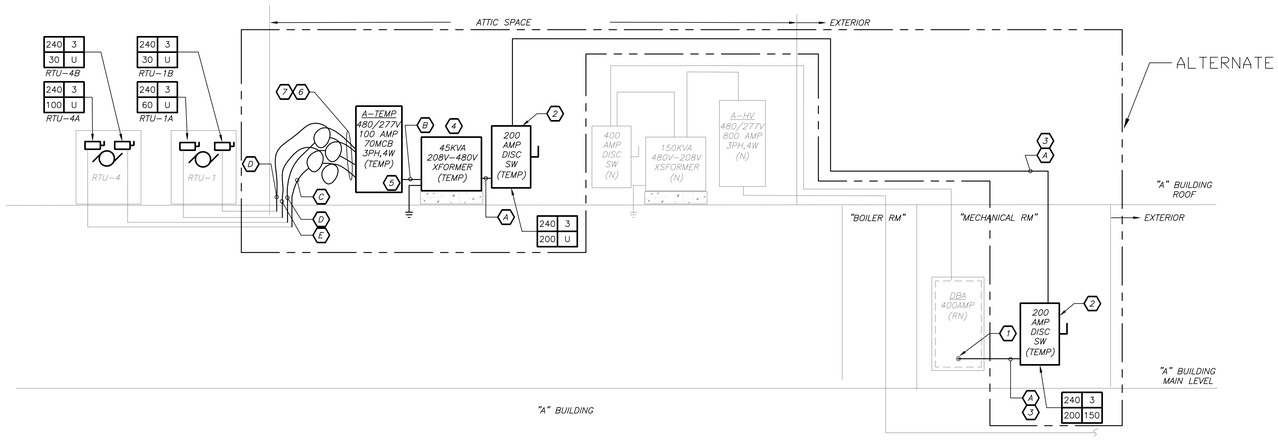
Job No. 2023-1028	Sheet Number E501-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	

WORK NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE TEMPORARY TAP TO THE EXISTING BUS. INCLUDE TEMPORARY EQUIPMENT GROUNDING FOR CONDUIT AND DISCONNECT SWITCH ENCLOSURES.
2. PROVIDE TEMPORARY DISCONNECT SWITCH AS INDICATED AND PROVIDE TEMPORARY KINDORFF SUPPORT AS REQUIRED AND NECESSARY.
3. PROVIDE TEMPORARY QUADRAPLEX CABLE, SIZED AS INDICATED, FROM DISCONNECT SWITCH THROUGH NEW PORTAL, ALONG THE ROOF FOLLOWING THE PATH OF THE PERMANENT CONDUIT INSTALLATION TO TEMPORARY DISCONNECT SWITCH IN ATTIC. PROVIDE ALL TEMPORARY SUPPORTS AS REQUIRED AND NECESSARY. THIS SHALL BE REMOVED IN ITS ENTIRETY, ONCE PERMANENT POWER IN ENERGIZED.
4. PROVIDE TEMPORARY 45KVA PAD MOUNTED STEP-UP TRANSFORMER, 115 DEG RISE, 208V DELTA PRIMARY TO 480/277V WYE SECONDARY. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES. REFER TO SPECIFICATIONS FOR ADDITIONAL TRANSFORMER CRITERIA.
5. PROVIDE TEMPORARY 277/480V, 3 PHASE, 4 WIRE PANELBOARD. FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED PROVISIONS AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION.
6. FOR RTU-1 AND RTU-4 THE CONDUIT AND WIRING SHALL BE PROVIDED AS PART OF BASE BID INSTALLATION. THE ALTERNATE 1 SCOPE OF WORK WILL BE TO PROVIDE ENOUGH SLACK FROM PERMANENT PANEL "AH-V" TO TEMPORARY PANEL "A-TEMP". PROPERLY SUPPORT AND PROVIDE EITHER A PULLBOX OR GREENFIELD FLEXIBLE CONDUIT AS REQUIRED AND NECESSARY TO TEMPORARILY PROTECT BRANCH CIRCUITS AND TO KEEP ALL TRADESMAN SAFE. ONCE NEW PANELBOARD "AP-HV" IS ENERGIZED, EC SHALL PROVIDE PERMANENT INSTALLATION OF CONDUIT AND FEEDERS AS REQUIRED AND NECESSARY TO "A-HV". EC SHALL BE RESPONSIBLE TO REMOVE ALL TEMPORARY CONDUIT , WIRE AND EQUIPMENT.
7. EC SHALL COORDINATE WITH HVAC CONTRACTORS BEFORE INSTALLATION OF TEMPORARY FEEDERS. HVAC CONTRACTOR SHALL LOCK OUT THE AIR CONDITIONING COMPRESSORS OF THE UNITS RTU-1 AND RTU-4. TEMPORARY POWER IS PROVIDED FOR VENTILATION PORTION OF THE UNIT ONLY.

FEEDER SCHEDULE:

- A) 3#1/0 + 1#6G QUADRAPLEX CABLE
- B) 4#4 + 1#8G IN 1-1/4" GREENFIELD FLEXABLE CONDUIT
- C) 3#4 + 1#8G IN 1-1/4" PERMANENT EMT & TEMPORARY GREENFIELD FLEXABLE CONDUIT
- D) 3#12 + 1#12G IN ¾" PERMANENT EMT & TEMPORARY GREENFIELD FLEXABLE CONDUIT
- E) 3#8 + 1#10G IN ¾" PERMANENT EMT & TEMPORARY GREENFIELD FLEXABLE CONDUIT



HORACE GREELEY HIGH SCHOOL PARTIAL POWER RISER DIAGRAM – ALTERNATE 1 / E502

NEW **ELECTRICAL PANEL SCHEDULE**

PNL: A-TEMP			MOUNTING:	SURFACE	X	MAIN LUGS ONLY		MAIN C BKR-		GROUND BUS:	X				
480/277V, 3 PHASE, 4 WIRE			(NEMA 1)	FLUSH		DOUBLE LUGS		70A/3P		ISOLATED GROUND BUS:					
14 ,000MIN A.I.C. SYM				IN MCC		FEED THRU LUG		MAIN BUS -		TVSS:					
NEUTRAL: 100%						SHUNT TRIP MAIN		100 A		NUMBER OF POLES:	24				

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE A	B	C	KVA / PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	3	RTU-1	3#12+1#12G	3/4"	3.30			2.60			3/4"	3#12+1#12G	RTU-1 ERV	3	2
3						3.30			2.60						4
5	20						3.30			2.60				20	6
7	3	RTU-4	3#12+1#12G	3/4"	3.80			2.60			3/4"	3#12+1#12G	RTU-4 ERV	3	8
9						3.80			2.60						10
11	20						3.80			2.60				20	12
13	20	SPARE									-	-	SPARE	20	14
15	20	SPARE	-	-							-	-	SPARE	20	16
17	20	SPARE	-	-							-	-	SPARE	20	18
19	20	SPARE	-	-							-	-	SPARE	20	20
21	20	SPARE	-	-							-	-	SPARE	20	22
23	20	SPARE	-	-							-	-	SPARE	20	24
		SUBTOTALS			7.1	7.10	7.1	5.20	5.20	5.20			SUBTOTALS		

TOTAL LOADS	12.3	KVA	PHASE A	
	12.3	KVA	PHASE B	
	12.3	KVA	PHASE C	
TOTAL CONN. LOAD	36.9	KVA	102.0	A
TOTAL DEMAND LOAD	36.9	KVA	102.0	A

LIGHTING:	0.00 KVA
RECEPTACLE:	0.00 KVA
KITCHEN:	0.00 KVA
MOTOR:	36.90 KVA
POWER:	0.00 KVA
TOTAL:	36.90 KVA

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DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

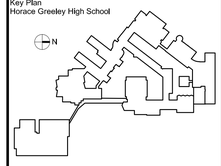
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285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
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CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

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Key Plan
Horace Greeley High School



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Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title
HORACE GREELEY POWER RISER ALTERNATE

Job No. 2023-1028	Sheet Number E502-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	

PANEL DESIGNATION: A–HV					MOUNTING: SURFACE		
SUPPLY CHARACTERISTIC: 277/480 VOLTS, 3 PHASE, 4 WIRES							
MAIN BUS RATING: 800 AMPS				NEUTRAL: FULL SIZE	SCR: 65,000		
				USAGE: DISTRIBUTION			
CKT NO.	FUSED SWITCH			EQUIPMENT	WIRE	COND.	LOAD
	FRAME SIZE	POLES "N"–NEUT. BAR CONNECTION	SWITCH SIZE				
1	100	3	50	RTU–1A	3#8+1#10G	3/4	SEE PNL
2	100	3	15	RTU–1B	3#12+1#12G	3/4	SEE PNL
3	100	3	50	RTU–2A	3#8+1#10G	3/4	SEE PNL
4	100	3	15	RTU–2B	3#12+1#12G	3/4	SEE PNL
5	100	3	50	RTU–3A	3#8+1#10G	3/4	SEE PNL
6	100	3	15	RTU–3B	3#12+1#12G	3/4	SEE PNL
7	100	3	80	RTU–4A	3#4+1#8G	1–1/2"	SEE PNL
8	100	3	15	RTU–4B	3#12+1#12G	3/4	SEE PNL
9	400	3+N	400	150KVA XMER	4#500+1#3	3–1/2	–
10	100	–	100	SPARE	–	–	–
11	100	–	100	SPARE	–	–	–

NEW ELECTRICAL PANEL SCHEDULE

PNL: MP-1 | 208Y/120, 3 PHASE, 4 WIRE | 42 ,000MIN A.I.C. SYM | NEUTRAL: 100%

MOUNTING: SURFACE X | (NEMA 1) FLUSH | IN MCC
MAIN LUGS ONLY | DOUBLE LUGS | FEED THRU LUG X | SHUNT TRIP MAIN
MAIN C BKR- 400A/3P | MAIN BUS - 400 A
GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 30

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE A	B	C	KVA / PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	2	FC-A	2#12+1#12G	3/4	0.20			0.20			3/4	2#12+1#12G	FC-A	2	2
3	20					0.20			0.20					20	4
5	2	FC-A	2#12+1#12G	3/4			0.20			0.20	3/4	2#12+1#12G	FC-A	2	6
7	20				0.20			0.20						20	8
9	2	FC-A	2#12+1#12G	3/4		0.20			0.20		3/4	2#12+1#12G	FC-A	2	10
11	20						0.20			0.20				20	12
13	2	FC-A	2#12+1#12G	3/4	0.20			0.20			3/4	2#12+1#12G	FC-A	2	14
15	20					0.20			0.20					20	16
17	2	FC-A	2#12+1#12G	3/4			0.20			17.3	-	-	-	3	18
19	20				0.20			17.3			-	SEE RISER	DOAS-5		20
21	3	-	-	-		20.0			17.3		-	-	-	175	22
23		DOAS-4	SEE RISER	-			20.0				-		SPARE	20	24
25	200	-	-	-	20.0						-		SPARE	20	26
27	20	SPARE		-							-		SPARE	20	28
29	20	SPARE		-							-		SPARE	20	30
		SUBTOTALS		20.8	20.6	20.6		17.9	17.9	17.7			SUBTOTALS		
		TOTAL LOADS		38.7 KVA	PHASE A								LIGHTING:	0.00 KVA	
				38.5 KVA	PHASE B								RECEPTACLE:	0.00 KVA	
				38.3 KVA	PHASE C								KITCHEN:	0.00 KVA	
		TOTAL CONN. LOAD		116 KVA	321 A								MOTOR:	115.50 KVA	
		TOTAL DEMAND LOAD		116 KVA	321 A								POWER:	0.00 KVA	
													TOTAL:	115.50 KVA	

NEW ELECTRICAL PANEL SCHEDULE

PNL: DBA | 120/208V, 3 PHASE, 4 WIRE | 14 ,000MIN A.I.C. SYM | NEUTRAL: 100%

MOUNTING: SURFACE X | (NEMA 1) FLUSH | IN MCC
MAIN LUGS ONLY | DOUBLE LUGS | FEED THRU LUG X | SHUNT TRIP MAIN
MAIN C BKR- 400A/3P | MAIN BUS - 400 A
GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 30

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE A	B	C	KVA / PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	3	EXISTING LOAD	EXIST									EXIST	EXISTING LOAD	3	2
3															4
5	60													60	6
7	3	EXISTING LOAD	EXIST									EXIST	EXISTING LOAD	3	8
9															10
11	60													40	12
13	3	EXISTING LOAD	EXIST									EXIST	EXISTING LOAD	3	14
15															16
17	100													20	18
19	3	EXISTING LOAD	EXIST									EXIST	EXISTING LOAD	3	20
21															22
23	100													100	24
25	3	EXISTING LOAD	EXIST									EXIST	EXISTING LOAD	3	26
27															28
29	100													100	30
		SUBTOTALS		0.0	0.00	0.0		0.00	0.00	0.00			SUBTOTALS		
		TOTAL LOADS		0.0 KVA	PHASE A								LIGHTING:	0.00 KVA	
				0.0 KVA	PHASE B								RECEPTACLE:	0.00 KVA	
				0.0 KVA	PHASE C								KITCHEN:	0.00 KVA	
		TOTAL CONN. LOAD		0.0 KVA	0.0 A								MOTOR:	0.00 KVA	

NEW ELECTRICAL PANEL SCHEDULE

PNL: MP-2 | 208Y/120, 3 PHASE, 4 WIRE | 22 ,000MIN A.I.C. SYM | NEUTRAL: 100%

MOUNTING: SURFACE X | (NEMA 1) FLUSH | IN MCC
MAIN LUGS ONLY | DOUBLE LUGS | FEED THRU LUG | SHUNT TRIP MAIN
MAIN C BKR- 400A/3P | MAIN BUS - 400A
GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 54

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE A	B	C	KVA / PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	2	FC-A	2#12+1#12G	3/4	0.20			0.20			3/4	2#12+1#12G	FC-A	2	2
3	20					0.20			0.20					20	4
5	2	FC-A	2#12+1#12G	3/4			0.20			0.20	3/4	2#12+1#12G	FC-A	2	6
7	20				0.20			0.20						20	8
9	2	FC-A	2#12+1#12G	3/4		0.20			0.20		3/4	2#12+1#12G	FC-A	2	10
11	20						0.20			0.20				20	12
13	2	FC-A	2#12+1#12G	3/4	0.20			0.20			3/4	2#12+1#12G	FC-A	2	14
15	20					0.20			0.20					20	16
17	2	FC-A	2#12+1#12G	3/4			0.20				-	-	SPARE	20	18
19	20				0.20						-	-	SPARE	20	20
21	3	HP-3	3#4+1#8G	1 1/4		6.90					-	-	SPARE	20	22
23							6.90							3	24
25	80				6.90						1 1/4	3#8+1#10G	HP-4		26
27	3	HP-6	3#4+1#8G	1 1/4		6.80								40	28
29							6.80							3	30
31	80				6.80						1 1/4	3#4+1#8G	HP-5		32
33	20	SPARE	-	-										70	34
35	20	SPARE	-	-							-	-	SPARE	20	36
37	3	HP-7	3#4+1#8G	1 1/4		6.80					-	-	SPARE	20	38
39					6.80						-	-	SPARE	20	40
41	80						6.80				-	-	SPARE	20	42
43	20	SPARE	-	-							-	-	SPARE	20	44
45	3	HP-8	3#4+1#8G	1 1/4		7.50					-	-	SPARE	20	46
47							7.50				-	-	SPARE	20	48
49	80				7.50						-	-	SPARE	20	50
51	20	SPARE	-	-							-	-	SPARE	20	52
53	20	SPARE	-	-							-	-	SPARE	20	54
		SUBTOTALS		28.8	28.6	28.6		10.1	10.1	9.9			SUBTOTALS		
		TOTAL LOADS		38.9 KVA	PHASE A								LIGHTING:	0.00 KVA	
				38.7 KVA	PHASE B								RECEPTACLE:	0.00 KVA	
				38.5 KVA	PHASE C								KITCHEN:	0.00 KVA	
		TOTAL CONN. LOAD		116 KVA	322 A								MOTOR:	116.10 KVA	
		TOTAL DEMAND LOAD		116 KVA	322 A								POWER:	0.00 KVA	
													TOTAL:	116.10 KVA	

NEW ELECTRICAL PANEL SCHEDULE

PNL: H-LV | 208Y/120, 3 PHASE, 4 WIRE | 42 ,000MIN A.I.C. SYM | NEUTRAL: 100%

MOUNTING: SURFACE X | (NEMA 1) FLUSH | IN MCC
MAIN LUGS ONLY | DOUBLE LUGS | FEED THRU LUG | SHUNT TRIP MAIN
MAIN C BKR- 350A/3P | MAIN BUS - 400 A
GROUND BUS: X | ISOLATED GROUND BUS: | TVSS: | NUMBER OF POLES: 42

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE A	B	C	KVA / PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	3	HP-1	3#8+1#10G	3/4	4.00			6.20						3	2
3						4.00			6.20		1 1/4	3#4+1#8G	HP-2		4
5	40						4.00			6.20				70	6
7	20	SPARE	-	-				4.50						3	8
9	20	SPARE	-	-					4.50		3/4	3#8+1#10G	DOAS-3		10
11	20	SPARE	-	-						4.50				50	12
13	2	FC-A	2#12+1#12G	3/4	0.20			15.20						3	14
15	20					0.20			15.2		2	3#2/0+1#6G	DOAS-1		16
17	2	FC-A	2#12+1#12G	3/4			0.20			15.2				175	18
19	20				0.20						-		SPARE	20	20
21	3	DOAS-2	3#8+1#10G	3/4		4.50					-		SPARE	20	22
23							4.50				-		SPARE	20	24
25	50				4.50						-		SPARE	20	26
27	20	SPARE		-							-		SPARE	20	28
29	20	SPARE		-							-		SPARE	20	30
		SUBTOTALS		8.90	8.70	8.70		25.90	25.90	25.90			SUBTOTALS		
		TOTAL LOADS		34.8 KVA	PHASE A								LIGHTING:	0.00 KVA	
				34.6 KVA	PHASE B								RECEPTACLE:	0.00 KVA	
				34.6 KVA	PHASE C								KITCHEN:	0.00 KVA	
		TOTAL CONN. LOAD		### KVA	289 A								MOTOR:	104.00 KVA	
		TOTAL DEMAND LOAD		### KVA	289 A								POWER:	0.00 KVA	
													TOTAL:	104.00 KVA	

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DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

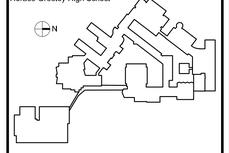
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Key Plan
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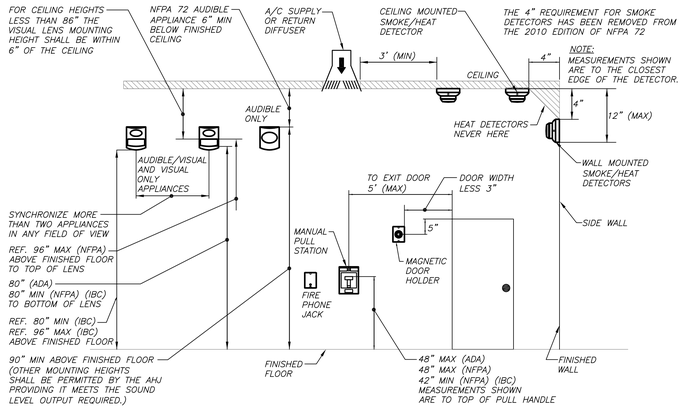
Professionall Seal

No.	Date	Issue
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1	06/10/2023	SCHEMATIC DESIGN

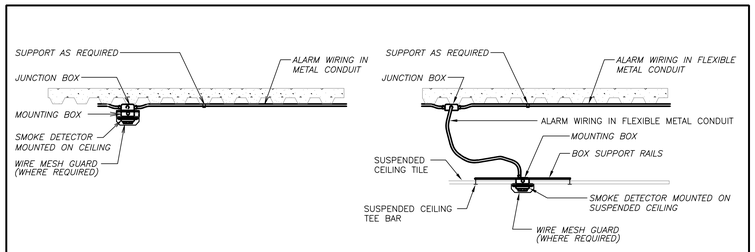
Sheet Title

HORACE GREELEY SCHEDULE

Job No. 2023-1028	Sheet Number E601-HG
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	

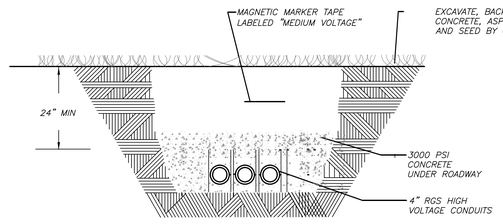


NFPA DEVICE MOUNTING HEIGHTS 7 E701 N.T.S.

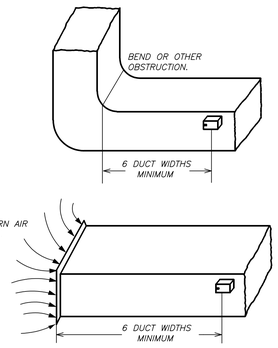


SLAB/METAL DECK SUSPENDED CEILING

SMOKE DETECTOR MOUNTING DETAIL 8 E701 N.T.S.

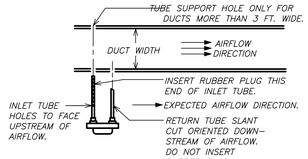


MEDIUM VOLTAGE TRENCH DETAIL 9 E701 N.T.S.

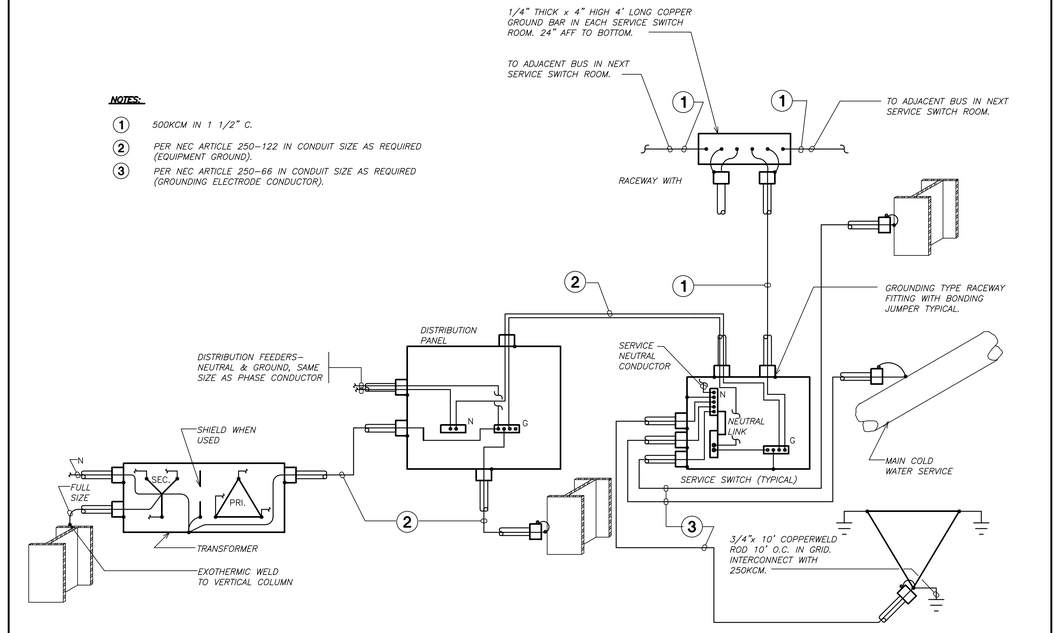


TYIPCAL DUCT DETECTOR PLACEMENT 4A E701 N.T.S.

INLET TUBE ORIENTATION



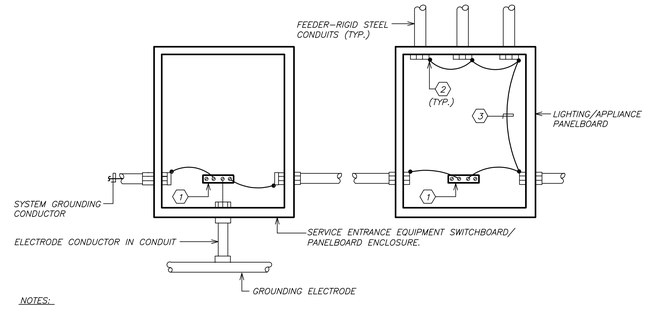
INLET TUBE ORIENTATION 4B E701 N.T.S.



NOTES:

1. 500KCM IN 1 1/2" C.
2. PER NEC ARTICLE 250-122 IN CONDUIT SIZE AS REQUIRED (EQUIPMENT GROUND).
3. PER NEC ARTICLE 250-66 IN CONDUIT SIZE AS REQUIRED (GROUNDING ELECTRODE CONDUCTOR).

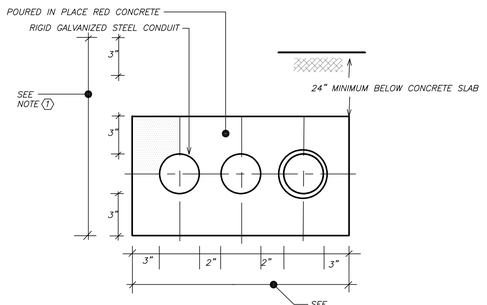
SCHEMATIC SERVICE GROUNDING SYSTEM 1 E701 N.T.S.



NOTES:

1. PANELBOARD GROUND BUS
2. GROUNDING BUSHING
3. GROUNDING CONDUCTOR

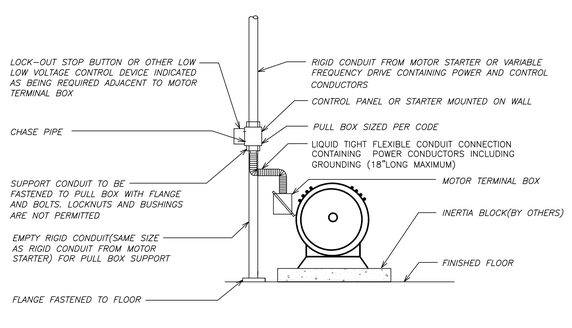
RACEWAY EQUIPMENT GROUNDING SYSTEM 5 E701 N.T.S.



NOTE:

1. SIZE AND OVERALL DIMENSION TO SUIT REQUIREMENTS.
2. REFER TO RISER DIAGRAM FOR CONDUIT QUANTITY.

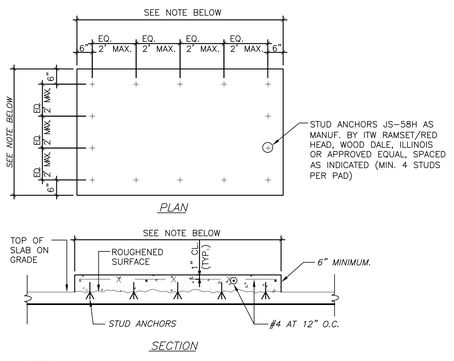
CONCRETE ENCASED CONDUIT BANK DETAIL 2 E701 N.T.S.



NOTE:

1. MOTOR SHALL BE MOUNTED BY OTHERS AND WIRED BY ELECTRICAL CONTRACTOR.

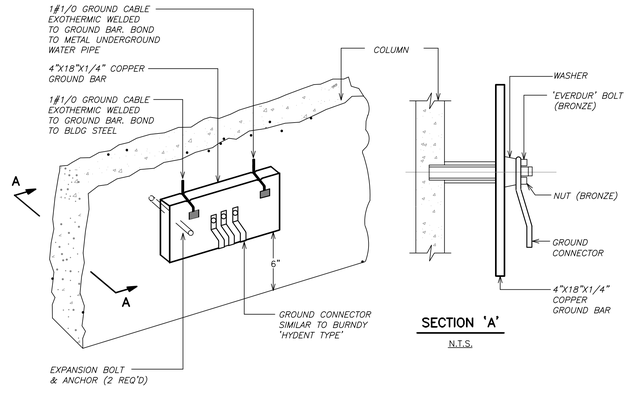
FLOOR MOUNTED MOTOR CONNECTION SYSTEM DETAIL 10 E701 N.T.S.



NOTES:

FINAL SIZE AND LOCATION TO BE DETERMINED BY CONTRACTOR AND APPROVED BY ARCHITECT/ENGINEER.

CONCRETE PAD DETAIL 6 E702 N.T.S.



SECTION 'A'
N.T.S.

GROUND BAR DETAIL 3 E701 N.T.S.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DISTRICT-WIDE CAPITAL IMPROVEMENTS

HIGH SCHOOL & MIDDLE SCHOOL HVAC UPGRADES

CHAPPAQUA CENTRAL SCHOOL DISTRICT
66 Roaring Brook Road
Chappaqua, NY 10514

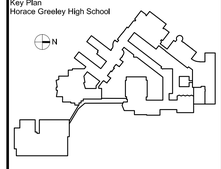
KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

SED Control No.
HG: 66-10-04-06-0-015-023
BE: 66-10-04-06-0-009-025
SB: 66-10-04-06-0-036-007

BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Key Plan
Horace Greeley High School



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Professional Seal

No.	Date	Issue
4	10/07/2024	ISSUE FOR BID
3	10/02/2023	SED ISSUE
2	08/31/2023	ISSUE FOR PRICING - 90% CD
1	06/10/2023	SCHEMATIC DESIGN

Sheet Title

ELECTRICAL DETAILS

Job No. 2023-1028	Sheet Number E701
Date 10/01/2024	
Scale AS NOTED	
Drawn / Checked BGA/BGA	