

Tuckahoe Union Free School District

TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS

65 SIWANUY BLVD
EASTCHESTER, N. Y. 10709

MECHANICAL REBID 12/04/2023

TUCKAHOE MIDDLE/HIGH
SCHOOL ALTERATIONS

NY SED Project Control No.
66-03-02-03-0-002-025

KG+D Project No.
2023-1031

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Sheet Number

T2

ABBREVIATIONS

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

SHEET IDENTIFICATION LEGEND

A101

DISCIPLINE DESIGNATOR	
SHEET TYPE DESIGNATOR	
SEQUENCE NUMBER	

DISCIPLINE DESIGNATORS	SHEET TYPE DESIGNATOR
G GENERAL	1 GENERAL
CC CODE COMPLIANCE	0 DEMOLITION
PH PHASING	2 PLANS
HM HAZARDOUS MATERIAL ABATEMENT	3 EXTERIOR ELEVATIONS & BUILDING SECTIONS
C CIVIL	4 ENLARGED PLANS & INTERIOR ELEVATIONS
L LANDSCAPE	5 FINISHES
S STRUCTURAL	6 REFLECTED CEILING PLANS
A ARCHITECTURAL	7 VERTICAL CIRCULATION
F FIRE PROTECTION	8 WALL SECTIONS & ENLARGED DETAILS
P PLUMBING	9 TYPICAL DETAILS
M MECHANICAL	
E ELECTRICAL	

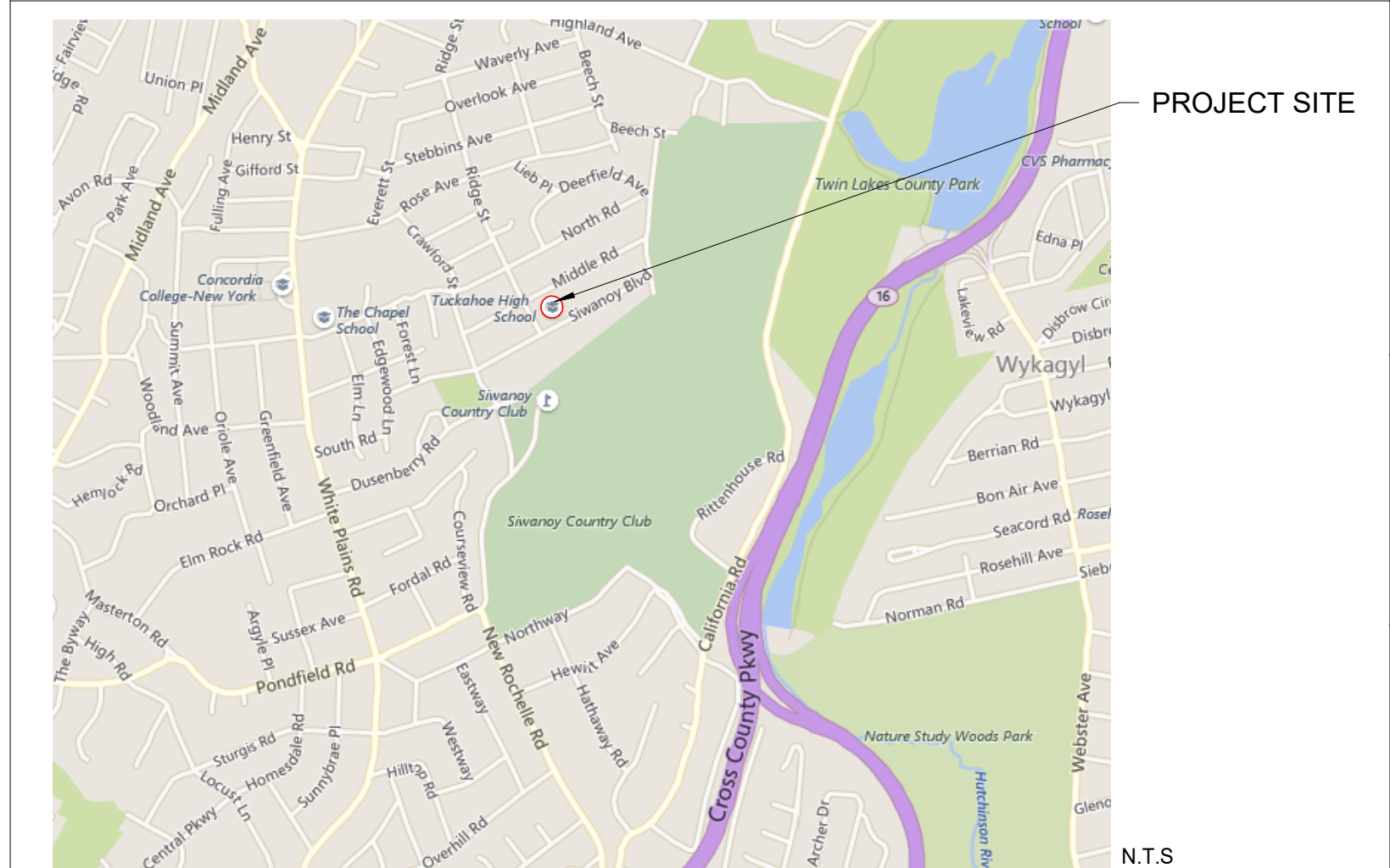
MATERIAL LEGEND

	CMU WALL		CAULK w/ BACKER ROD
	CMU WALL		WATER PROOFING MEMBRANE OR FLASHING
	GWB WALL		RIGID INSULATION
	MASONRY VENEER		BATT INSULATION
	"GWB - TYPE X" UNO (SEE SPECS)		PORUS FILL
	EXPOSED TO WEATHER OR MOISTURE		SUITABLE COMPACTED BACKFILL (SEE SPEC)
	WOOD BLOCKING (PRESSURE TREATED ALL AREAS EXPOSED TO WEATHER OR MOISTURE)		UNDISTURBED SOIL
	GLASS SURFACE		CAST IN PLACE CONCRETE OR CAST STONE

PROJECT INFORMATION

OWNER	TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOVY BOULEVARD EASTCHESTER, NY 10709
PROJECT LOCATION	TUCKAHOE MIDDLE/HIGH SCHOOL 65 SIWANOVY BOULEVARD EASTCHESTER, NY 10709
TYPE OF PROJECT	TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS
NYS ED NUMBER	66-03-02-03-0-002-024
PROJECT COMMENCEMENT	SUMMER 2022
PROJECT COMPLETION	FALL 2022
APPLICABLE CODES	2020 UNIFORM FIRE PREVENTION AND BUILDING CODE MANUAL OF PLANNING STANDARDS - 1998 THE UNIVERSITY OF THE STATE OF NEW YORK THE STATE EDUCATION DEPARTMENT
WORK AREA	ALTERATION LEVEL 2

LOCATION MAP



SYMBOLS LEGEND

ROOM NAME 101 150 SF	ROOM TAG (NAME, NUMBER, & AREA)		DENOTES EXISTING AREA OF THE BUILDING TO REMAIN (NO MAJOR GENERAL CONSTRUCTION).
	WALL TYPE & FIRE RATING TAG		DENOTES EXISTING WALL TO REMAIN
	WINDOW TYPE TAG		DENOTES EXISTING WALL TO BE DEMOLISHED
	DOOR DESIGNATION TAG		DENOTES 1hr OR NON-RATED WALL
	CONTROL JOINT		DENOTES 2hr RATED WALL
	COLUMN LINE		DENOTES WALL TYPE & FIRE RATING
	EXTERIOR ELEVATION		DENOTES HOLLOW METAL FRAME w/ SIDELITE OR TRANSOM
	INTERIOR ELEVATION		DENOTES EXISTING DOOR TO REMAIN (U.N.O)
	WALL OR BUILDING SECTION		DENOTES EXISTING DOOR AND OR FRAME TO BE DEMOLISHED. SEE DOOR SCHEDULE.
			DENOTES NEW DOOR AND OR FRAME. SEE DOOR SCHEDULE

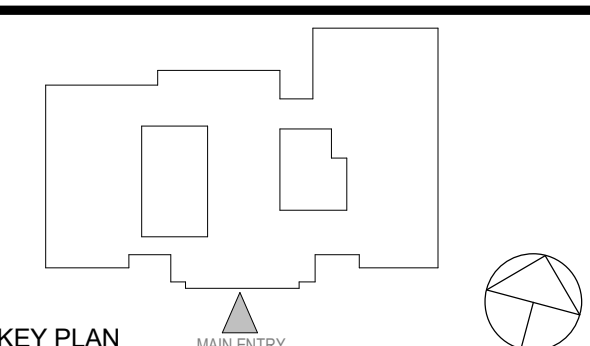
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CONSTRUCTION DOCUMENTS



KEY PLAN

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1	12/04/2023	ISSUED FOR BID
No.	Date	Issue

Sheet Title

GENERAL INFORMATION

Job No.	2023-1031	Date	08/18/2023
Scale	AS NOTED	Drawn / Checked	Author Checker

Sheet Number

G001

CHAPTER 3-6 OCCUPANCY, AREA AND CONSTRUCTION TYPES

BUILDING INFORMATION

USE & OCCUPANCY CLASSIFICATION: EDUCATIONAL (E)
 WORK CHARACTERIZATION: RENOVATION
 CONSTRUCTION CLASSIFICATION: TYPE IIB (NON-COMBUSTIBLE, UNPROTECTED)

FIRE RATING FOR WALLS BEARING: 0 HOURS
 NON-BEARING: 0 HOURS
 FIRE RATING FOR FLOORS (TYPE IIB): 0 HOURS
 FIRE RATING FOR ROOFS (TYPE IIB): 0 HOURS

BUILDING HEIGHTS & AREAS

	PERMITTED	ACTUAL
HEIGHT	55'-0"	41'-1"
STORIES	4	4
FLOOR AREA	116,880SF (BCN)	128,840SF

PRE-EXISTING NON-CONFORMING

*AREA MODIFICATIONS PER NYS BC SECTION 506

EQUATION 5-1 $Aa = [At + [At \times If] + [At \times Is]]$
 WHERE: Aa = ALLOWABLE AREA PER STORY
 At = 14,500 SF
 If = 0.25 (SEE EQUATION 5-2)
 Is = 0 (NO SPRINKLERS)

EQUATION 5-1 $If = [F / P - 0.25] (W/30)$
 WHERE: If = AREA INCREASE DUE TO FRONTAGE
 F/P = 50%
 W = 30 FT

CHAPTER 7 FIRE & SMOKE PROTECTION

ASSEMBLY FIRE-RESISTANCE RATING LOCATION

ASSEMBLY	FIRE-RESISTANCE RATING	LOCATION
FIRE BARRIER	1 HOURS	CORRIDORS CLASSROOMS

SEE DRAWINGS FOR LOCATION OF FIRE-RESISTANCE-RATED CONSTRUCTION

CHAPTER 10 MEANS OF EGRESS

EGRESS INFORMATION: DWG SHOWN

ROOM USE DESIGNATIONS	DWG SHOWN
ROOM SQUARE FOOTAGE	CC DRAWINGS
ROOM OCCUPANCY LOADS	CC DRAWINGS
EXIT TRAVEL DISTANCES	CC DRAWINGS

SED MPS

GROUND FL - 150 FT MAX TO EXTERIOR DOOR
 BASEMENT / 2ND FL - 120 FT MAX TO STAIR ENCLOSURE
 50 FT MAX TO EXIT FROM ALL ROOMS (1500 SF & UNDER)
 NO DEAD-END CORRIDORS (<1.5 x WIDTH, MAX 20'-0")

CHAPTER 11 ACCESSIBILITY

ITEM: DWG SHOWN

ITEM	DWG SHOWN
INTERIOR ACCESSIBLE ROUTE	CC DRAWINGS
ACCESSIBLE ENTRANCES	CC DRAWINGS
SIGNAGE	SPECIFICATIONS

EXISTING BUILDING SQUARE FOOTAGES

BUILDING	AREA DESCRIBED	BLDG TYPE	LEVEL NAMES	EXST. SF	DEMO	GROSS SF
1932 BUILDING	ORIGINAL MIDDLE SCHOOL CLASSROOMS, GYMNASIUM, & CAFETERIA	2B	1st FLOOR	34,196 SF	0 SF	34,196 SF
			2nd FLOOR	34,196 SF	0 SF	34,196 SF
			3rd FLOOR	11,837 SF	0 SF	11,837 SF
			SUBTOTAL	80,229 SF	0 SF	80,229 SF
1965 ADDITIONS	GYMNASIUM, CHORUS ROOMS & EXERCISE STUDIO	2B	1st FLOOR	12,184 SF	0 SF	12,184 SF
			2nd FLOOR	8,584 SF	0 SF	8,584 SF
			3rd FLOOR	4,094 SF	0 SF	4,094 SF
			SUBTOTAL	24,862 SF	0 SF	24,862 SF
1982 ADDITION	CLASSROOM ADDITION	2B	1st FLOOR	6,075 SF	0 SF	6,075 SF
			2nd FLOOR	6,075 SF	0 SF	6,075 SF
			3rd FLOOR	6,075 SF	0 SF	6,075 SF
			SUBTOTAL	18,225 SF	0 SF	18,225 SF
			SUBTOTAL	123,316 SF	0 SF	123,316 SF

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:

- ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
- FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
- GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
- 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.
- 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 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.
- 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.
- 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 CONTAMINANTS 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 IN "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.

PROJECT SCOPE & CLASSIFICATION OF WORK

PROJECT SCOPE:

THIS PROJECT INCLUDES REPLACEMENT OF A PORTION OF THE EXISTING ROOF AND RELATED PAPAPET REPAIR, REPLACEMENT OF EXISTING STEAM TRAPS, REPLACEMENT OF EXISTING PA/INTERCOM/BELL & CLOCK SYSTEMS AND EXTERIOR FRONT FACADE CLEANING & REPOINTING ALONG THE SOUTH EXTERIOR/ENTRANCE ELEVATIONS.

CLASSIFICATION OF WORK: ALTERATION LEVEL 2

APPLICABLE CODES: 2020 UNIFORM FIRE PREVENTION AND BUILDING CODE

MANUAL OF PLANNING STANDARDS - 2022
 THE UNIVERSITY OF THE STATE OF NEW YORK
 THE STATE EDUCATION DEPARTMENT

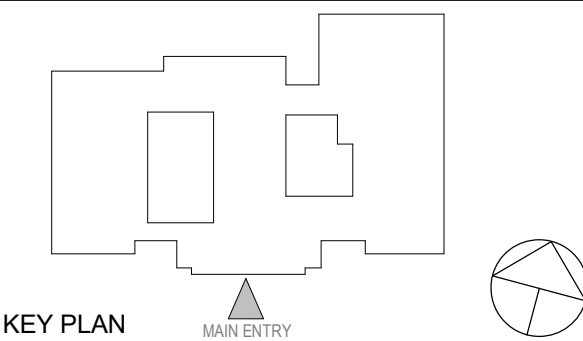
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Professional Seal

No.	Date	Issue
1	12/04/2023	ISSUED FOR BID

Sheet Title

CODE COMPLIANCE INFORMATION

Job No.	Date
2023-1031	08/18/2023

Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

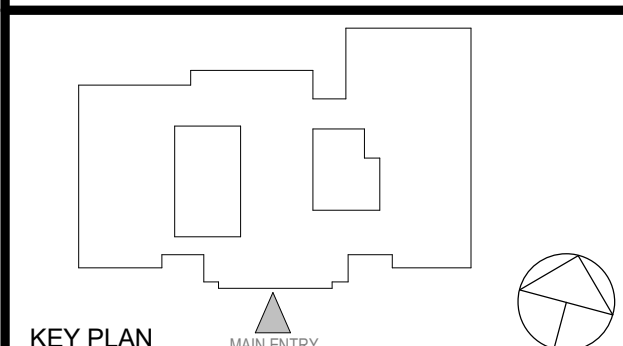
CC001

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NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-025

**CONSTRUCTION
DOCUMENTS**



KEY PLAN
MAIN ENTRY

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1	12/04/2023	ISSUED FOR BID
No.	Date	Issue

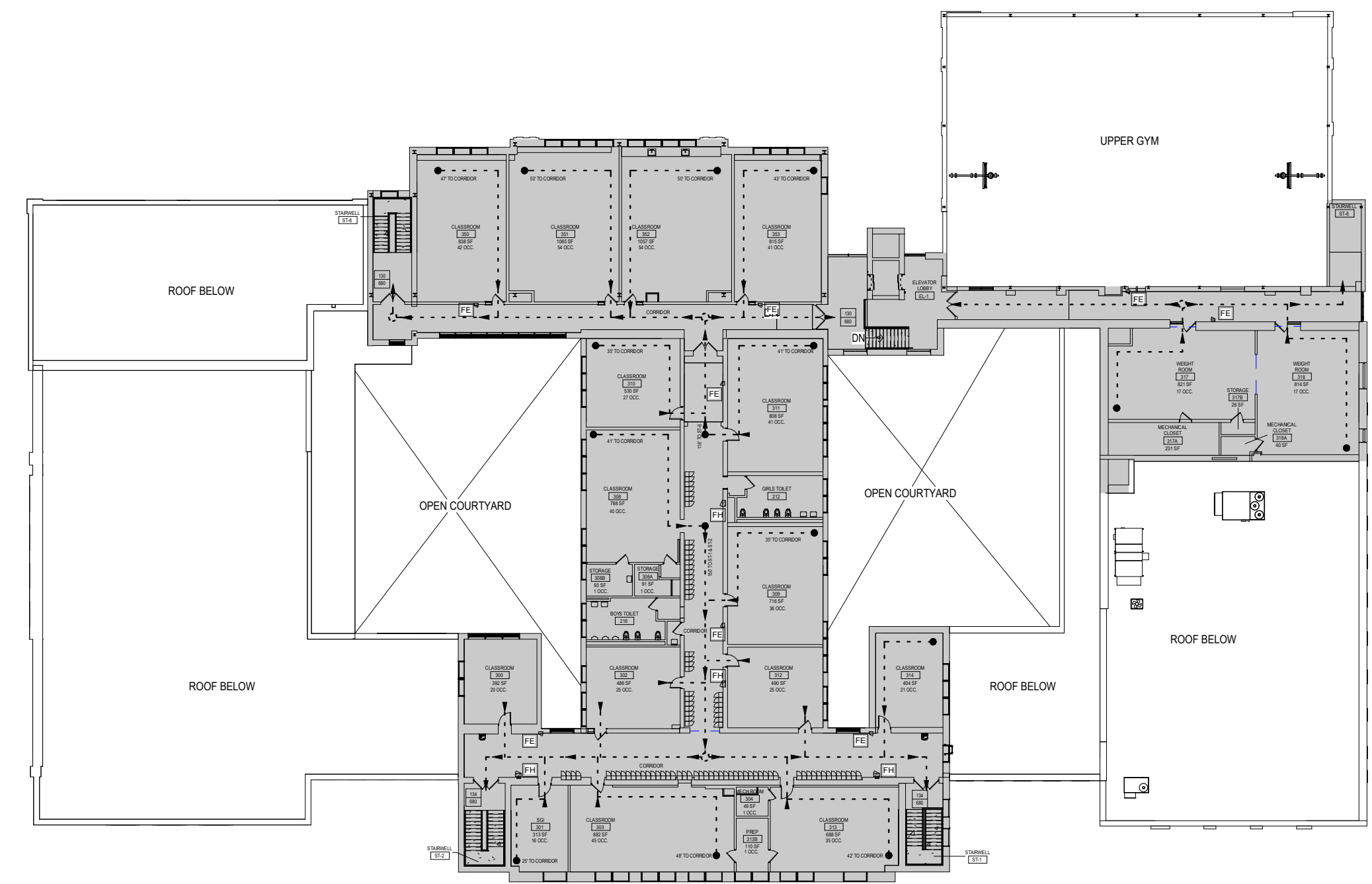
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**CODE
COMPLIANCE
PLANS**

Job No. 2023-1031	Date 08/18/2023
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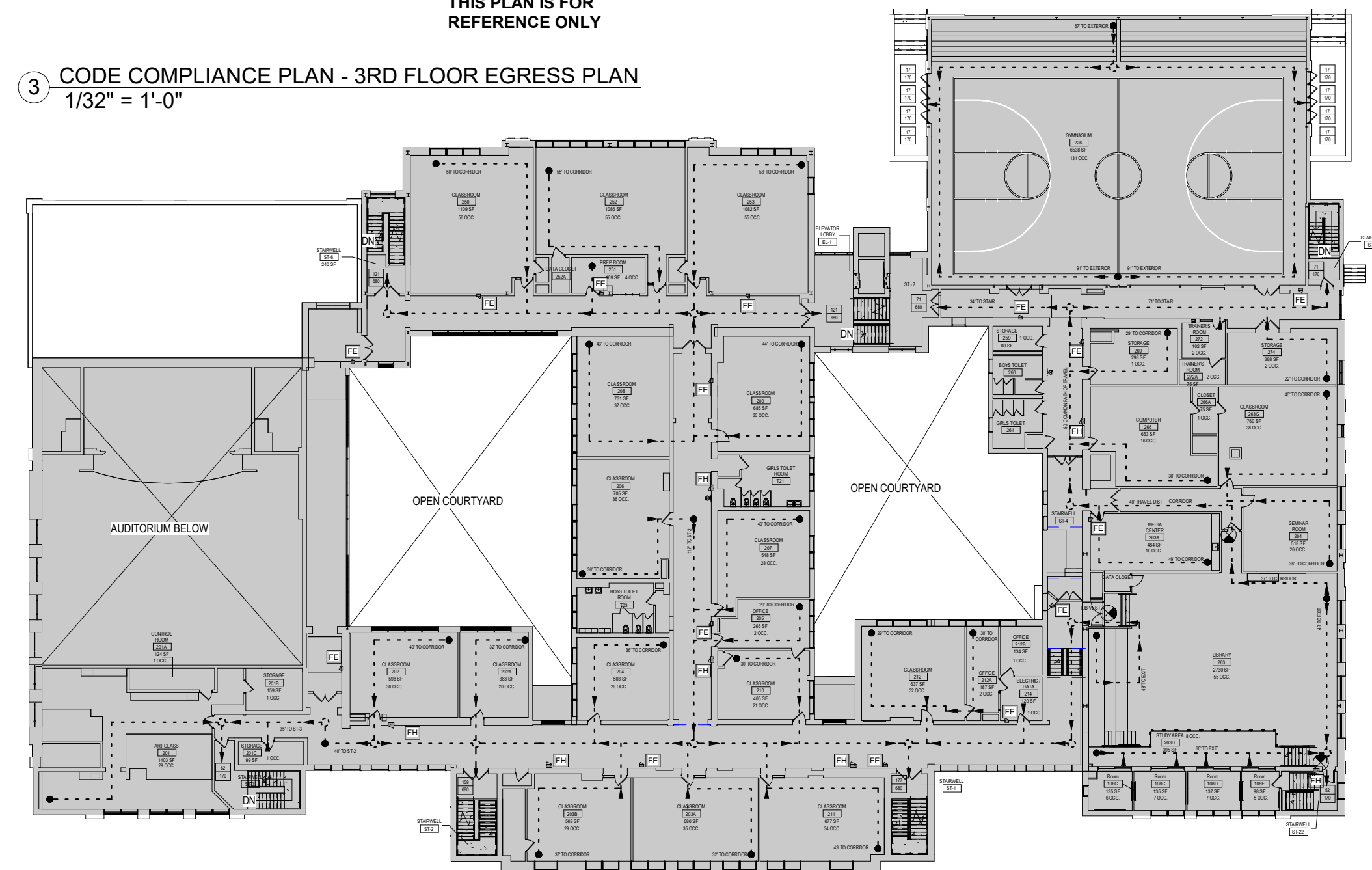
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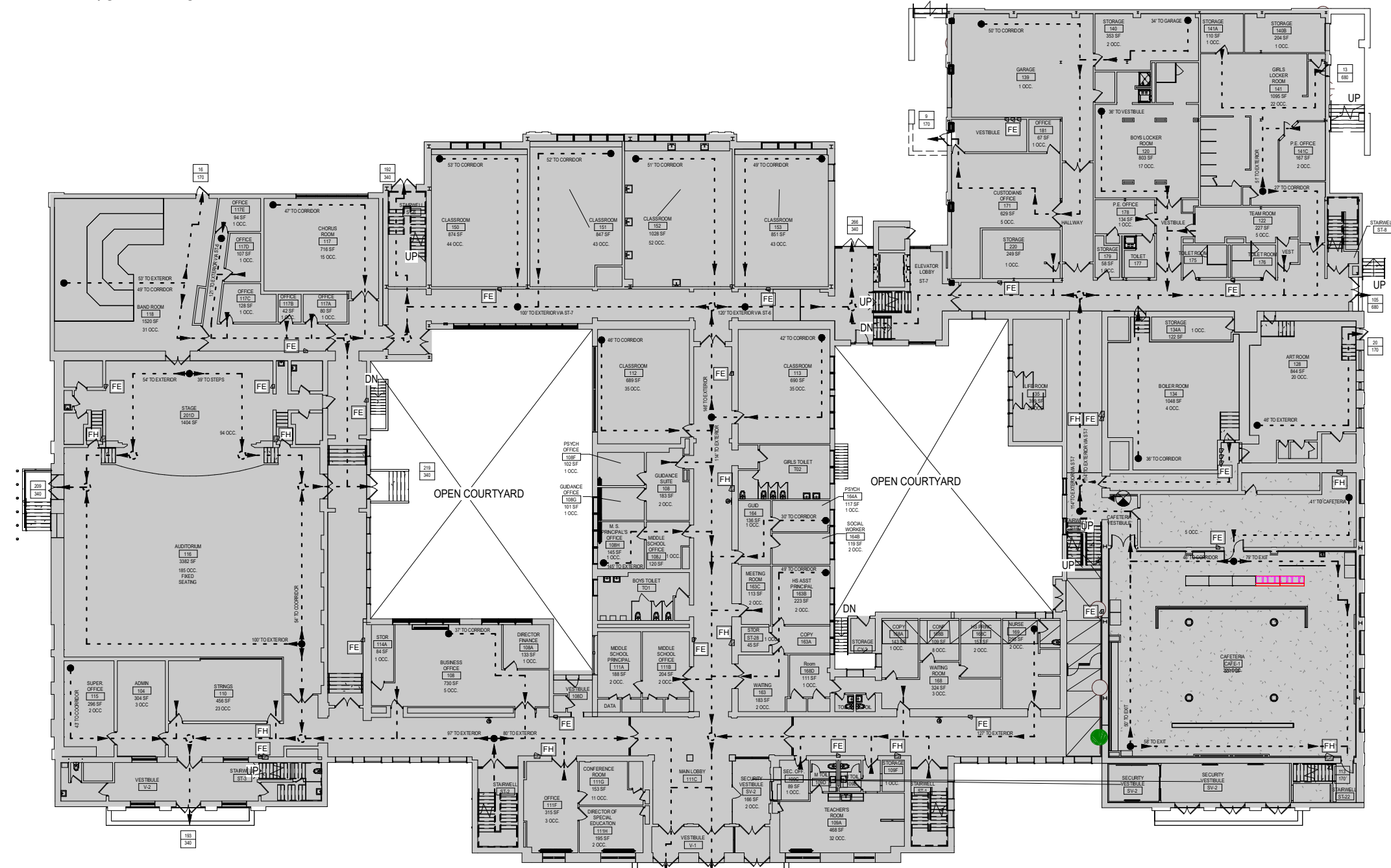
THIS PLAN IS FOR
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③ CODE COMPLIANCE PLAN - 3RD FLOOR EGRESS PLAN
1/32" = 1'-0"



THIS PLAN IS FOR
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② CODE COMPLIANCE PLAN - 2ND FLOOR EGRESS PLAN
1/32" = 1'-0"



THIS PLAN IS FOR
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① CODE COMPLIANCE PLAN - 1ST FLOOR EGRESS PLAN
1/32" = 1'-0"

OCCUPANCY TABLE

ROOM #	ROOM NAME	AREA	CODE FACTOR	OCCUPANT LOAD
LEVEL - CAFETERIA (LOWER 1ST FLOOR)				
CAFE-1	CAFETERIA	3,286 SF	15	220 OCC
LEVEL - 1ST FLOOR				
V-101	BREAKOUT SPACE	122 SF	20	7 OCC
LEVEL - LIBRARY (LOWER 2ND FLOOR)				
263	LIBRARY	2,724 SF	50	55 OCC
263A	MEDIA CENTER	485 SF	50	10 OCC
264	SEMINAR ROOM	514 SF	20	26 OCC
LEVEL - 2ND FLOOR				
263D	STUDY AREA	363 SF	50	8 OCC
SV-2	BREAKOUT SPACE-1	110 SF	20	6 OCC
SV-3	BREAKOUT SPACE-2	135 SF	20	7 OCC
SV-4	BREAKOUT SPACE-3	137 SF	20	7 OCC
SV-5	BREAKOUT SPACE-4	98 SF	20	5 OCC

ASSEMBLY SPACE EGRESS CALCULATIONS
PER NYS BC: 1005.3.1, 1005.3.2, 1006.3.2 & SED MPS

PER BC NYS		REQUIRED	PROVIDED
LOCATION	AREA	EGRESS WIDTH	# OF EXITS
CAFETERIA ROOM CAFE-1	3,286 SF	220 OCC (SF / 15)	2
LIBRARY ROOM 263	2,724 SF	55 OCC (SF / 50)	3

CODE COMPLIANCE LEGEND

	AREA OF NO WORK (EXISTING NONCONFORMING)
	OCCUPANCY EGRESS LOAD MAXIMUM CAPACITY
	AREA OF REFUGE
	MOST REMOTE POINT
	TRAVEL POINT
	PATH OF TRAVEL
	FIRE EXTINGUISHER (CABINET)
	FIRE HOSE / PROTECTION SYSTEM
	EGRESS EXIT LIGHT

General Notes:

- 1 The purpose of these drawings is to show the structural work associated with alteration at Tuckahoe Middle/High school at 65 Swanoy Blvd, Eastchester, NY 10709
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: Corridors 100 psf, Dining rooms 100 psf, Libraries 100 psf, Corridors above first floor 80 psf, Reading rooms 60 psf, Stack rooms 150 psf, Stairs and exits 100 psf
B. Roof loads: Snow: Ground snow load, pg 30 psf, Flat roof snow load, ps 30 psf, Exposure factor, Cp 1.0, Importance factor, I 1.1, Thermal factor, Ct 1.0, Drift surcharge load, ps 53 psf, Width of snow drift, W 6.72 feet, Rain loads: in accordance with Section 1611, Roof live load: 20 psf min, Rainfall intensity is required by the 2018 IBC code. See Section 1603.1.9, Rainfall intensity (15-min. duration/100 year avg. interval) 6.00 in./hr.
C. Wind design data: Wind loads have been determined based on Section 1609.1.1 in accordance with ASCE 7-16, 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, Vnsd 97 mph, Exposure B, Internal pressure coefficient 0.18, "a" dimension for use with components and cladding 4 ft
Design wind pressure (Nominal design wind pressures) for components and cladding on building walls (use Zone 4 generally; use Zone 5 within "a" of building wall corners): Area, Surface pressure (psf), 10 sq. ft., 20 sq. ft., 50 sq. ft., 100 sq. ft.
Design wind pressure (Nominal design wind pressures) for components and cladding on building roofs (for locations of zones 1, 2, and 3, refer to building code): Area, Surface pressure (psf), 10 sq. ft., 20 sq. ft., 50 sq. ft., 100 sq. ft.
Wind design for existing buildings: Not required since the proposed additions does not increase the demand-capacity ratio of any wind load carrying structural element by more than 10 percent cumulative since the original construction.
D. Earthquake design data: Risk category III, Seismic importance factor, Is 1.25, Mapped short period spectral response accelerations, Ss 0.293g, Mapped 1 second period spectral response accelerations, S1 0.061g, Site class: B, Design short period spectral response accelerations, Ssd 0.176g, Design 1 second period spectral response accelerations, Ssd1 0.033g, Seismic design category: B, Seismic force resisting system: Structural steel systems not specifically detailed for seismic resistance 4 KIPS, Design base shear: 0.045, Seismic response coefficient, Cs 3, Response modification factor, R 3, Deflection amplification factor, Cd 3, Analysis procedure: Equivalent Lateral Force, Earthquake design for existing buildings: Not required since the proposed additions does not increase the demand-capacity ratio of any seismic load carrying structural element by more than 10 percent cumulative since the original construction.
E. Other loads: Concentrated loads: All floors except as noted (on 2-1/2 feet square) 1000 lbs, Stair treads and catwalks (on 4 inches square) 300 lb
Impact loads: Loads increased as follows: Elevator machinery 100%, Hangers for floors or balconies 33%, Vehicle and wheel loads 30%
F. Special loads: Retaining walls: Lateral equivalent fluid pressure 35 pcf, Seismic load (h = height of wall) 5.5 hf2, Vertical live load surcharge 100 psf
G. Guardrails (load applied in any direction): Top rail concentrated or Top rail uniform load 200 lbs, Intermediate rail concentrated load 50 pif, 50 lbs
H. Existing buildings: For existing structural elements carrying gravity loads, the proposed additions does not increase the stress in any structural element by more than 5 percent nor does it decrease the strength of any structural element to less than required by the building code for new structures.
4 This structure has been designed to be self-supporting and stable after the construction of the building has been completed. The stability of the structure 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 This structure utilizes, moment frames to provide lateral stability. Therefore, temporary bracing, guys, etc., must be maintained until all bracing and moment frames have been erected.
6 Shoring note: The contractor is responsible for designing, providing and installing all temporary shoring that is required to support instabilities of existing structure during construction and due to the removal of existing supporting walls and existing framing members for installation of new framing and foundations. Shoring shall be fully installed and stable prior to removal of existing structural elements. However, all conditions may not be shown due to hidden conditions at existing structures.
7 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. PDF digital files of all erection and detail shop drawings for steel reinforcing bars (concrete and concrete masonry construction), structural steel, indicating the fabricator, manufacturer, finish, layout, and all accessories, must be submitted to and be checked by the contractor and subcontractor and bear the checker's initials before submission to the architect for review prior to fabrication. Fabrication and/or delivery to the site of components prior to receiving approved shop drawings shall be at the fabricator's own risk.
9 Testing and inspection of steel reinforcing bars (concrete and concrete masonry construction), concrete masonry, structural steel 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 requires inspections may be rejected solely on that basis.
10 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.
11 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.
12 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.
13 The contractor shall verify all dimensions, elevations and angles with architectural drawings and existing conditions before proceeding with any work.
14 The contractor shall field verify existing conditions before proceeding with any work. The contractor shall field verify all dimensions noted "a" that are indicated on the drawings.
15 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.

- 16 These drawings are supplemented by a detailed technical specification. The notes shown under certain categories of work are intended to summarize basic requirements.
17 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.
18 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.
19 Do not scale drawings.
Codes and Standards References
1 Concrete masonry: Concrete masonry work shall conform to the requirements of TMS 402-16, "Building Code Requirements for Masonry Structures" and TMS 602-16, "Specifications for Masonry Structures".
2 Structural steel: Design, fabrication and erection of structural steel shall conform to the "Specification for Structural Steel for Buildings" as adopted on July 7, 2016, by the American Institute of Steel Construction (AISC) and the 15th Edition of the AISC Steel Construction Manual.
Concrete Masonry Notes:
1 All concrete masonry work shall conform to the requirements of the "Building Code Requirements for Masonry Structures (ACI 530/ASCE 5/ TMS 402)" and the "Specifications for Masonry Structures (ACI 530.1/ASCE 6/ TMS 602, as specified in the code reference section of these general notes.
2 The compressive masonry strength, fm, shall be 2,000 psi minimum. System components have been selected based on the unit strength method.
3 Concrete block shall be lightweight hollow load bearing masonry units conforming to ASTM C 90, with a minimum ultimate compressive strength of 2,000 psi on the net area of the units. Units shall be protected from moisture absorption.
4 Portland cement used in the mortar and grout shall conform to ASTM C 150. Masonry cement or mortar cement shall not be used.
5 Mortar shall be Type S conforming to the volumetric proportions set forth in ASTM C 270. Use 1 part Portland cement, 0.25 to 0.5 parts hydrated lime or lime putty; and aggregate proportioned to 2.25 to 3 times the sum of the separate volumes of cementitious materials (i.e. Portland cement plus lime). Provide aggregate in loose, damp condition. Add water to produce a workable mix.
6 Coarse grout used in pilasters and walls shall conform to the volumetric proportions set forth in ASTM C 476. Use one part Portland cement, 2.25 to 3 parts damp, loose sand, 1 to 2 parts 3/8" pea gravel. Add water to produce a flowable mix with an 8 to 11 inch slump. Alternatively, fine grout may be used that conforms to the volumetric proportions set forth in ASTM C 476 using one part Portland cement, 2.25 to 3 parts damp loose sand and adding water to produce a flowable mix with an 8 to 11 inch slump.
7 Steel reinforcing bars shall conform to ASTM A 615, Grade 60. Reinforcing bars to be lapped 48 bar diameters at splices. Reinforcement to be secured against displacement at spacing not exceeding 200 bar diameters.
8 Joint (horizontal) reinforcement shall be hot-dipped galvanized W1.7 (3 gage) steel wire, ASTM A 951 with ASTM A 153 Class B-2 coating, Ladder type, by Hohmann & Barnard, Inc., or an approved equal. Place joint reinforcing in every second course (16"o.c.). Joint reinforcement shall be lapped 6 inches at splices.
9 Place units while mortar is soft and plastic. Remove and relay in fresh mortar any unit disturbed to the extent that initial bond is broken after initial positioning.
10 Fully bed units in all shear walls including cross webs.
11 All cells with reinforcing bars or bolts shall be grouted solid.
12 Vertical coils to be grouted solid shall have a minimum clear opening of 3"x2-1/2". The entire perimeter of the cell shall be fully bedded with mortar.
13 Consolidate grout pours exceeding 12 inches in height by mechanical vibration and reconsolidate by mechanical vibration after initial water absorption and settlement has occurred. Grout pours exceeding 5.33 feet are high lift pours and shall require cleanouts. High lift grouting shall not be used unless high lift grout procedures are submitted to the engineer for review and approved by the engineer.
14 Cover the tops of all masonry construction to protect against precipitation.
15 Masonry shall not be constructed in temperatures below 40 F. Provide a heat source and protection as required to maintain temperature above 40 F in accordance with ACI 530.1.
16 Hot weather construction techniques shall be in accordance with ACI 530.1 and shall be implemented when the ambient air temperature exceeds 100 F, or 90 F if the wind speed exceeds 8 mph.
17 Unless otherwise shown on architectural or structural drawings provide vertical control joints through concrete masonry unit walls for full wall height as follows:
A Distance between joints should not exceed the lesser of length to height ratio of 1.5, or 25 feet
B At changes in wall height
C At changes in wall thickness - including pipe and duct chases and pilasters
D At and above expansion joints in foundations and floors
E At and below expansion joints in roofs and floors that bear on the wall
F For openings, do not locate control joints within 32 inches of openings
G Adjacent to corners of walls or at wall intersections within a distance equal to half the control joint spacing.
18 Submittals to the engineer are required for certificates of compliance for block grade and strength, grout, mortar, and reinforcing bars prior to delivery to the site.
Connections to Existing Masonry or Hardened Concrete:
1 All proprietary anchoring systems (expansion, adhesive anchoring systems, etc.) to be installed into hardened concrete and masonry elements are to be installed in strict accordance with the manufacturer's instructions for drilling and preparation of holes, for spacing and edge distance requirements, and for the utilization of supplemental components for the anchoring systems such as screen tubes, doweling adhesives, etc.
2 For connections to hardened concrete and masonry, contractor must locate the position of existing reinforcing bars with an R-meter or pilot holes prior to installation of anchors. Notify engineer of field conflicts prior to installation.
3 Connections to hardened concrete shall be made with anchors conforming to ACI 318, as specified in the code reference section of these general notes, for cracked concrete, and Chapter 19 of the state building code indicated at the beginning of these general notes.
A Mechanical anchors shall be either
i. Hilti "Kwik Bolt TZ" expansion anchor.
ii. Hilti "Kwik HUS-EZ" screw anchor (use only in permanently dry, interior non-corrosive environments)
iii. Dewart "Power-Stud + SD2" expansion anchor.
iv. Dewart "Power-Stud + SD4/SD6", Type 304/316 SS expansion anchor
v. Dewart "Screw-Bolt" screw anchor, zinc-plated or galvanized (use only in permanently dry, interior non-corrosive environments)
B Size, embedment, spacing and edge distance of anchors shall be as indicated on the drawings.
Adhesive anchor rods or reinforcing bars shall be installed in rotary hammered drilled holes with carbide drill bits using one of the following adhesive anchoring systems:
i. Hilti "HIT-HY 200 safe set system" with hollow drill bit or Hilti "HIT-RE-500 V3" adhesive anchoring system with ISO 898 Class 5.8 anchor rods (minimum yield strength = 58 ksi and minimum ultimate strength = 72.5 ksi) or ASTM A 193 Grade B7 high strength anchor rods.
ii. Dewart DUST-X system with "Pure 10+" epoxy adhesive, standard cure or Dewart "AC208+" two part adhesive, cold temperature cure with ASTM A 193 B7 high strength anchor rods.
iii. Reinforcing bars shall conform to the requirements of the Concrete General Notes.
Adhesive for reinforcing bars and anchors shall have been tested in accordance with ACI 355.4 "Qualification of Post-Installed Adhesive Anchors in Concrete" and ICC-ES (ICC Evaluation Service) "Acceptance Criteria for Post-Installed Adhesive Anchors in Concrete Elements" (AC308) for cracked concrete and seismic applications.
Adhesive bond design strength is based upon concrete that has cured at least 21 days with a minimum compressive strength of 2,500 psi and an in-service temperature in accordance with ACI 355.4 Temperature Category B.
Installation method shall be in accordance with the Manufacturer's Printed Installation Instructions (MPI)
Installation of adhesive anchors horizontally or upwardly inclined to support sustained tension loads shall be performed by personnel certified by the ACICRSI Adhesive Anchor Installer Certification program or equal.
Unless otherwise noted on the drawings, embed anchor rods and reinforcing bars into drilled holes a minimum of 9 anchor diameters, with a minimum edge distance of 4 inches, measured from the edge of the concrete to the centerline of the anchor/reinforcing bar. Increased embedment depths or edge distances may be required at certain locations, see plans and details.
4 Connections to grout filled concrete masonry shall be made with either 1) Hilti standard "HAS-E" ISO 898 Class 5.8 anchor rods (minimum yield strength = 58 ksi and minimum ultimate strength = 72.5 ksi) using Hilti "HIT HY270" masonry adhesive anchoring systems or 2) Simpson "RFB" ASTM F 1554 Grade 36 anchor rods using Simpson "Set-XP" masonry adhesive anchoring system or 3) ASTM F1554 Grade 36 or ASTM A 193 Grade B7 high strength anchor rods using Dewart AC100+ Gold masonry adhesive anchoring system with composite screen tubes.
A. Unless otherwise noted on the drawings, embed anchor rods into drilled holes a minimum of 9 anchor diameters, with a minimum edge distance of 4 measured from the edge of the masonry to the centerline of the anchor. Increased embedment depths or edge distances may be required at certain locations, see plans and details.
5 Connections to hollow concrete or clay brick masonry shall be made with either 1) Hilti standard "HAS-E" ISO 898 Class 5.8 anchor rods (minimum yield strength = 58 ksi and minimum ultimate strength = 72.5 ksi) using Hilti "HIT HY270" masonry adhesive anchoring system with "HIT-SC" composite screen tubes or 2) Simpson "RFB" ASTM F 1554 Grade 36 anchor rods using Simpson "SET-XP" masonry adhesive anchoring system with Simpson "Opti-mesh" plastic screen tubes or 3) ASTM F1554 Grade 36 or ASTM A 193 Grade B7 high strength anchor rods using Dewart AC100+ Gold masonry adhesive anchoring system with composite screen tubes.
A. For anchors in hollow concrete masonry, embed anchor rods into drilled holes a minimum of 2 inches, with a minimum edge distance of 4 inches, unless otherwise noted, measured from the edge of the masonry to the centerline of the anchor. Increased embedment depths or edge distances may be required at certain locations, see plans and details.
B. For anchors in hollow clay brick masonry, embed anchor rods into drilled holes a minimum of 3 1/2 inches, with a minimum edge distance of 4 inches, unless otherwise noted, measured from the edge of the masonry to the centerline of the anchor. Increased embedment depths or edge distances may be required at certain locations, see plans and details.
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:
Wide flange shapes: ASTM A 992 Grade 50
American standard shapes, angles, Plates and bars: ASTM A 36
Bolts: ASTM F 1554, Grade A 325
Anchor rods: ASTM F 1554, Grade 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 High strength bolts: install high-strength bolts according to Research Council on Structural Connections' (RCSC's) "Specification for Structural Joints Using High-Strength Bolts" for type of bolt and type of joint specified. Joint type: Snug tightened unless otherwise noted.
5 Beam reactions are indicated on the plans, refer to the typical beam legend for reaction designations. Beams with shear reactions not shown shall be designed for a 12 kip reaction (service loads for allowable stress design).
6 The fabricator is responsible for designing connections for the reactions shown on these plans and submitting these design calculations, signed and sealed by a qualified professional engineer registered in the state of jurisdiction who is responsible for their preparation, for review by the structural engineer of record through the architect. The reactions shown are "service" loads for "Allowable Stress Design" (ASD). Connections may be designed for these values using the conventional "Allowable Stress Design" method, as specified in the AISC Steel Construction Manual indicated in the code reference section of these general notes.
7 For moment connections, notch-tough welding electrodes, complying with AWS requirements, shall be used for full penetration welds. Also for full penetration welds, provide welding tabs at beam flange edges to allow welding of full beam width.
8 Grout shall be nonmetallic, shrinkage-resistant grout conforming to ASTM C 1107, Grade B or C, factory-packaged, nonmetallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.
9 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).
10 All steel members and bolting exposed to weather shall be cleaned in accordance with the Steel Structures Painting Council Specification SP 6 for Commercial Blast Cleaned and hot-dipped galvanized in accordance with ASTM A 123 and ASTM A 153. Minimum acceptable zinc coating weight shall be 2 oz./sq. Ft. See architectural specifications for finished paint if required. Clean areas where galvanizing is damaged or missing and repair galvanizing to comply with ASTM A 780.
11 Provide bitumastic protection coating for all structural steel below grade.
12 Continuous members, where indicated on the drawings, shall require either 1) the member to be furnished as one piece, or 2) if individual pieces are to be provided, then they shall be connected by either welding or bolting to develop the full strength of the continuous member.
13 Provide 1/4" closure plates with seal weld at ends of all HSS members.
14 Fabricator shall hold a current AISC certification for "Certified Building Fabricator (BUJ)", (formerly known as "Standard for Steel Building Structures (STD)").
15 For miscellaneous steel, see architectural drawings.
16 Existing steel surfaces to receive field welds shall be thoroughly cleaned and free from paint, rust, grease, etc.
17 Submittals to the engineer are required for certificates of compliance for structural steel, bolts, nuts, washers, and weld filler material prior to the fabrication of any steel.
18 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.

Lintel Notes:

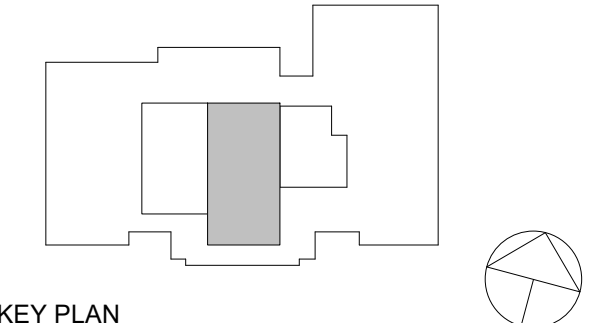
- 1 Unless otherwise noted, for lintels over doors, windows, ducts, and miscellaneous openings in non-bearing 4", 8" and 12" CMU walls and brick walls use for each 4" of masonry:
Angle size Max. M.O. Bearing each end
3 1/2" x 3/8" flat plate 2'-0" 6"
3 1/2" x 4" x 5/16" (LLV) 3'-6" 6"
3 1/2" x 5" x 5/16" (LLV) 5'-0" 6"
3 1/2" x 6" x 5/16" (LLV) 6'-0" 8"
3 1/2" x 6" x 3/8" (LLV) 8'-0" 8"
2 Openings in non-bearing walls masonry where no specific lintels or lintel sizes are indicated shall have 8" bearing at each end and shall have the following sizes:
Max. M.O. Wall thickness Lintel size
9'-0" 8" WBx24
9'-13" 8" WBx31 + 5/16" plate
12'-0" 8" WBx28
12'-0" 9'-13" WBx35 + 5/16" plate
Plates indicated in above lintels shall have a width 1" less than the wall thickness and a length 1" less than the masonry opening.
Provide 7 1/2" x 5/8" x 0'-7 1/2" bearing plates on 3/4" grout bed with (2)-5/8" diameter x 6" long welded anchor studs at 3" o.c. unless otherwise noted. Field weld bottom flange of beam to bearing plate with 1/4" weld at each side of flange.
3 For 6" masonry partitions use WT 7x13 for spans up to 7'-0" with 6" bearing each end.
4 For 10" masonry partitions use WT 7x21.5 for spans up to 7'-0" with 8" bearing each end.
5 Fill the first two courses directly under bearing with grout for 16" length.
6 See architectural and mechanical drawings for size and location of openings.
7 When openings occur in bearing walls or the height of masonry above the lintel is less than the opening width or when a control joint is located directly above or within 16" of the jamb opening and drawings do not otherwise indicate a specific lintel design, consult with the architect to confirm lintel requirements.
8 Lintels over adjacent openings with piers between less than 2'-8" wide shall be continuous over piers. Masonry units of such piers shall be filled with grout for full story height.
9 Connect lintel to structural steel columns when there is less than 16" of masonry between the masonry opening and the outermost face of column.
10 Lintels supporting exterior masonry shall be hot-dipped galvanized. See structural steel notes.
11 Lintels for openings in walls: These plans do not show the full scope of steel lintels required for new wall openings for doors, windows, ducts, louvers, etc.. For masonry opening size and location of all wall openings, see architectural and mechanical drawings. Do not scale openings. For steel lintel size for corresponding masonry opening size, see notes, above, unless otherwise noted on plans.

TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SWANOV BLVD EASTCHESTER, NY 10709



NY SED PROJECT CONTROL NO.

CONSTRUCTION DOCUMENTS



KEY PLAN
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Table with 2 columns: No., Date, Issue. Row 1: 12/04/2023 ISSUED FOR BID

Sheet Title

GENERAL NOTES AND MATERIAL SPECIFICATIONS

Table with 2 columns: Job No., Date. Row 1: 21124.00, 12/04/2023. Scale: AS NOTED. Drawn / Checked: TM/TBH.

Sheet Number S001

NY SED PROJECT CONTROL NO.

CONSTRUCTION DOCUMENTS

KEY PLAN

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Sheet Title

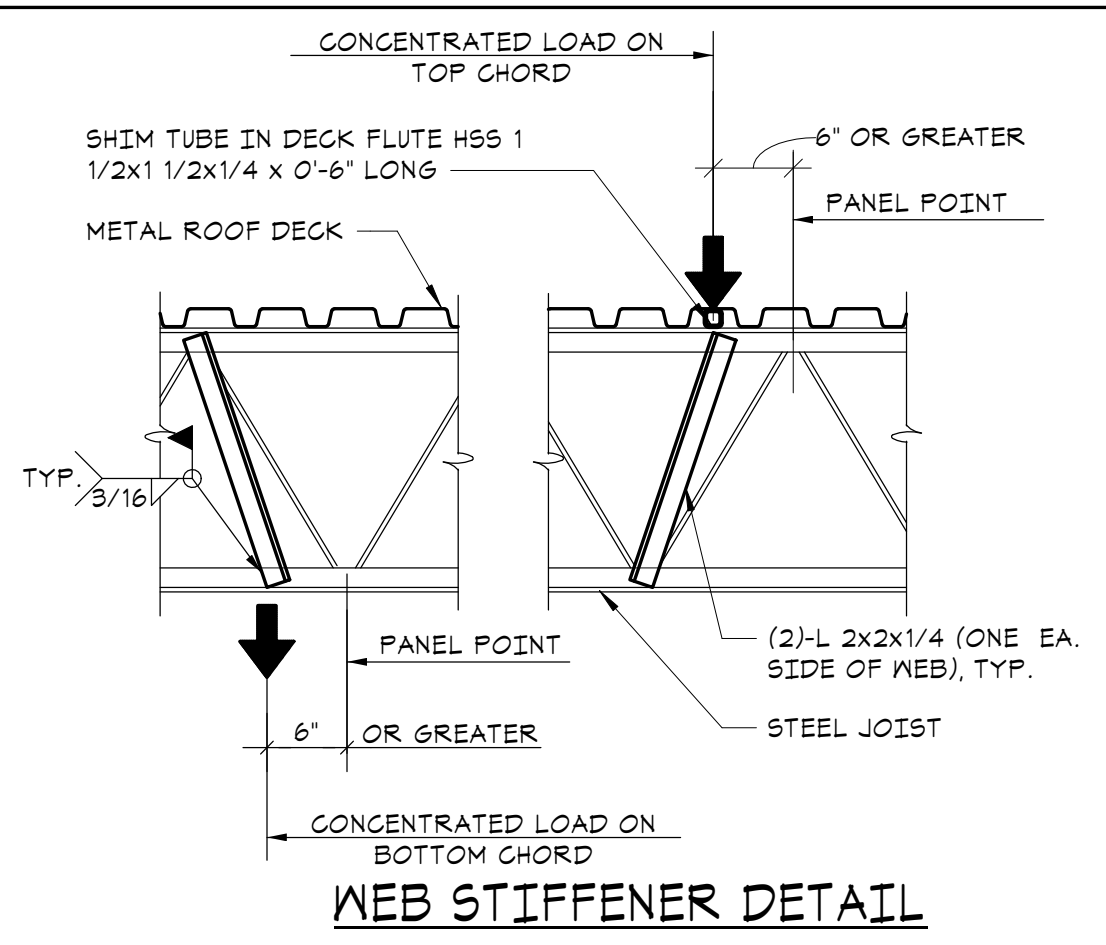
OVERALL ROOF AND RTU LOCATION PLAN

Job No. 21124.00 Date 12/04/2023

Scale AS NOTED Drawn / Checked TM/TBH

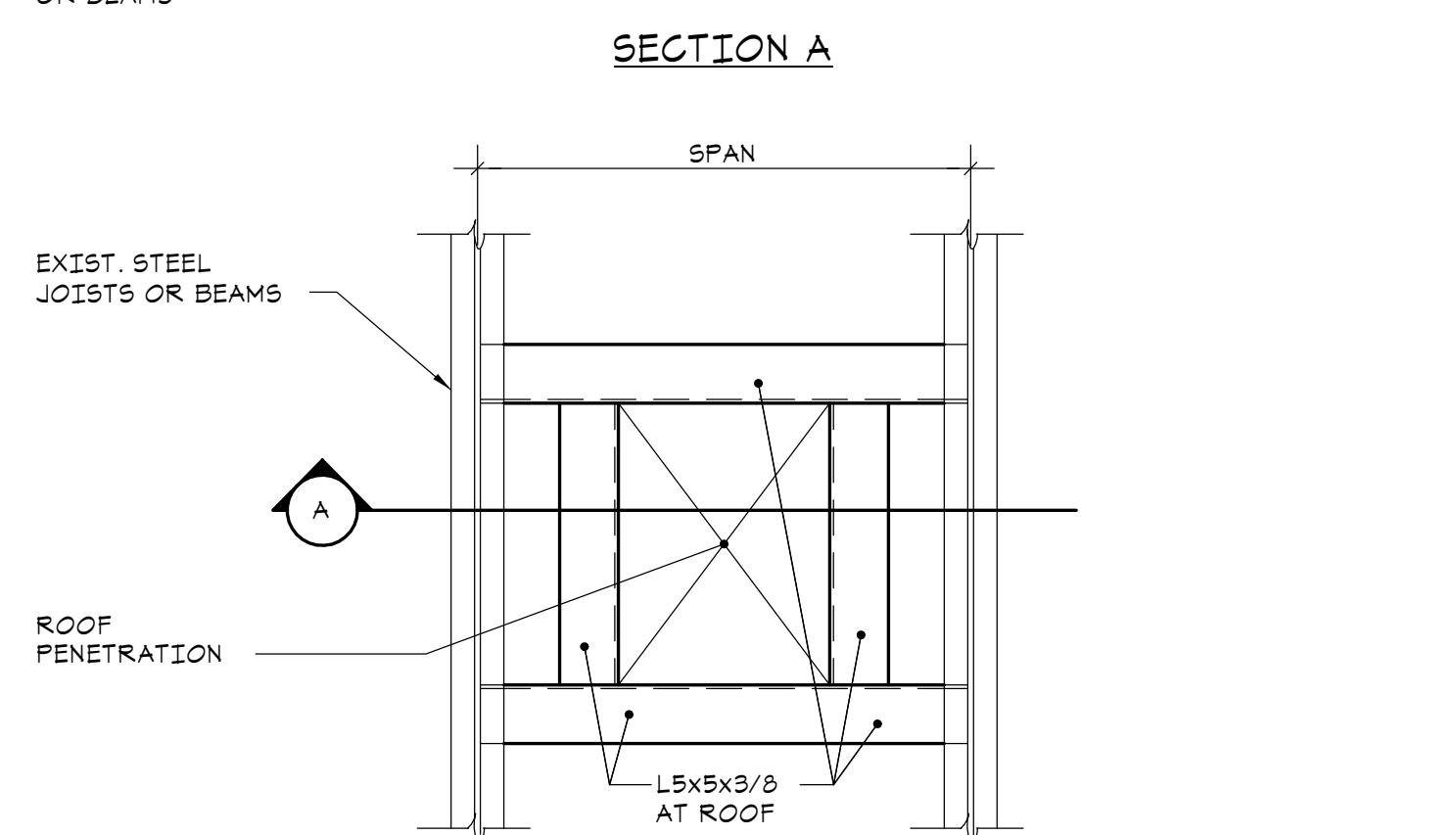
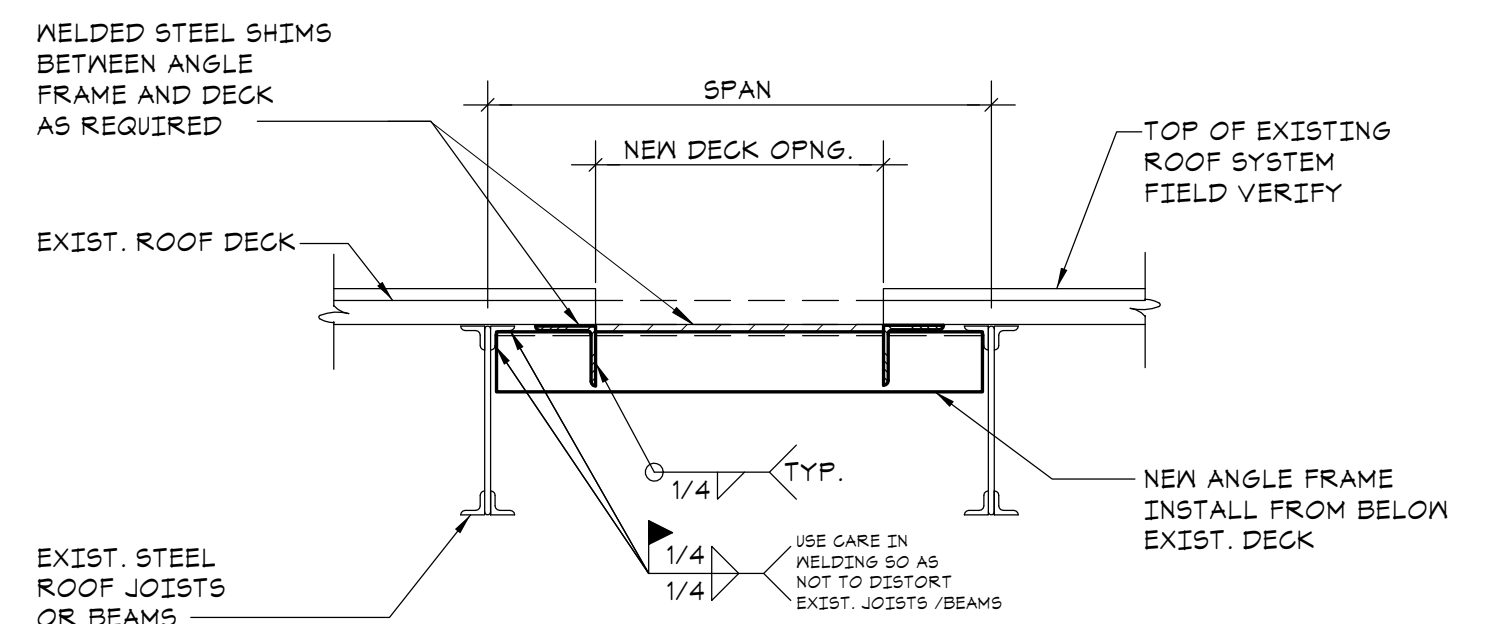
Sheet Number

S102



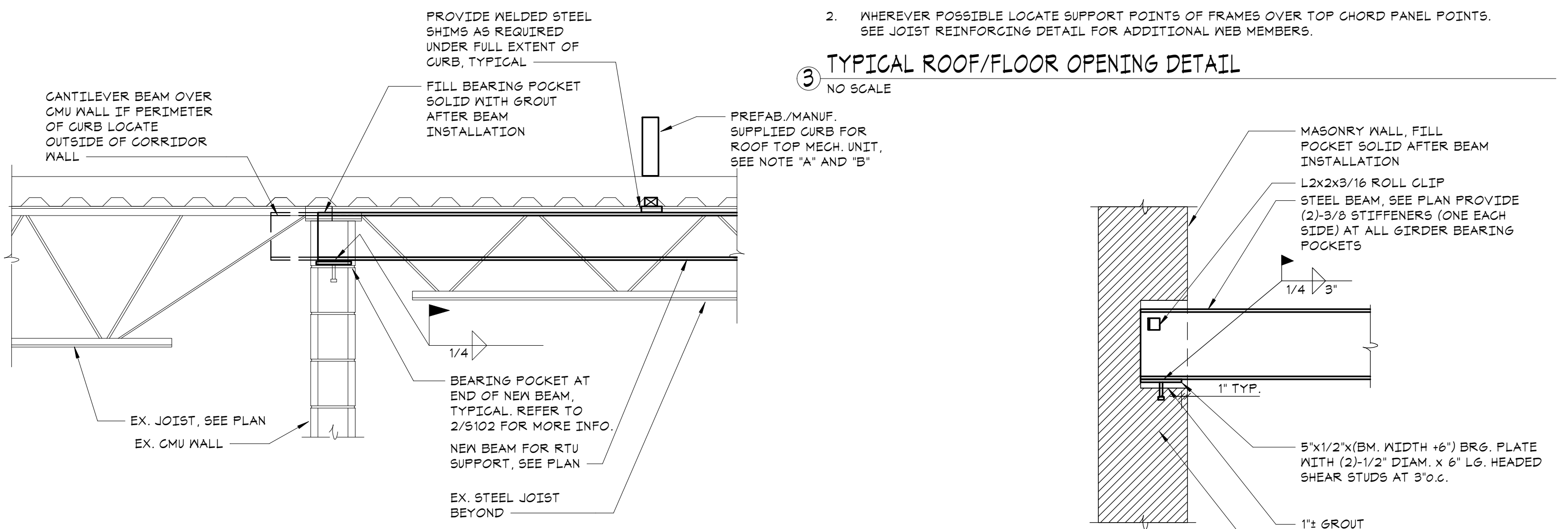
- A WEB STIFFENER MUST BE APPLIED TO ANY JOIST BETWEEN THE CHORD WHERE THE CONCENTRATED LOAD IS APPLIED AND THE PANEL POINT OF THE OPPOSITE CHORD WHEN A CONCENTRATED LOAD IS PLACED ON THE JOIST 6" OR MORE AWAY FROM A PANEL POINT.
- WHEN PIPES/CONDUITS ARE LESS THAN 4" DIAM, JOISTS DO NOT REQUIRE REINFORCING.

4 TYPICAL JOIST REINFORCING DETAIL
NO SCALE



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

3 TYPICAL ROOF/FLOOR OPENING DETAIL
NO SCALE

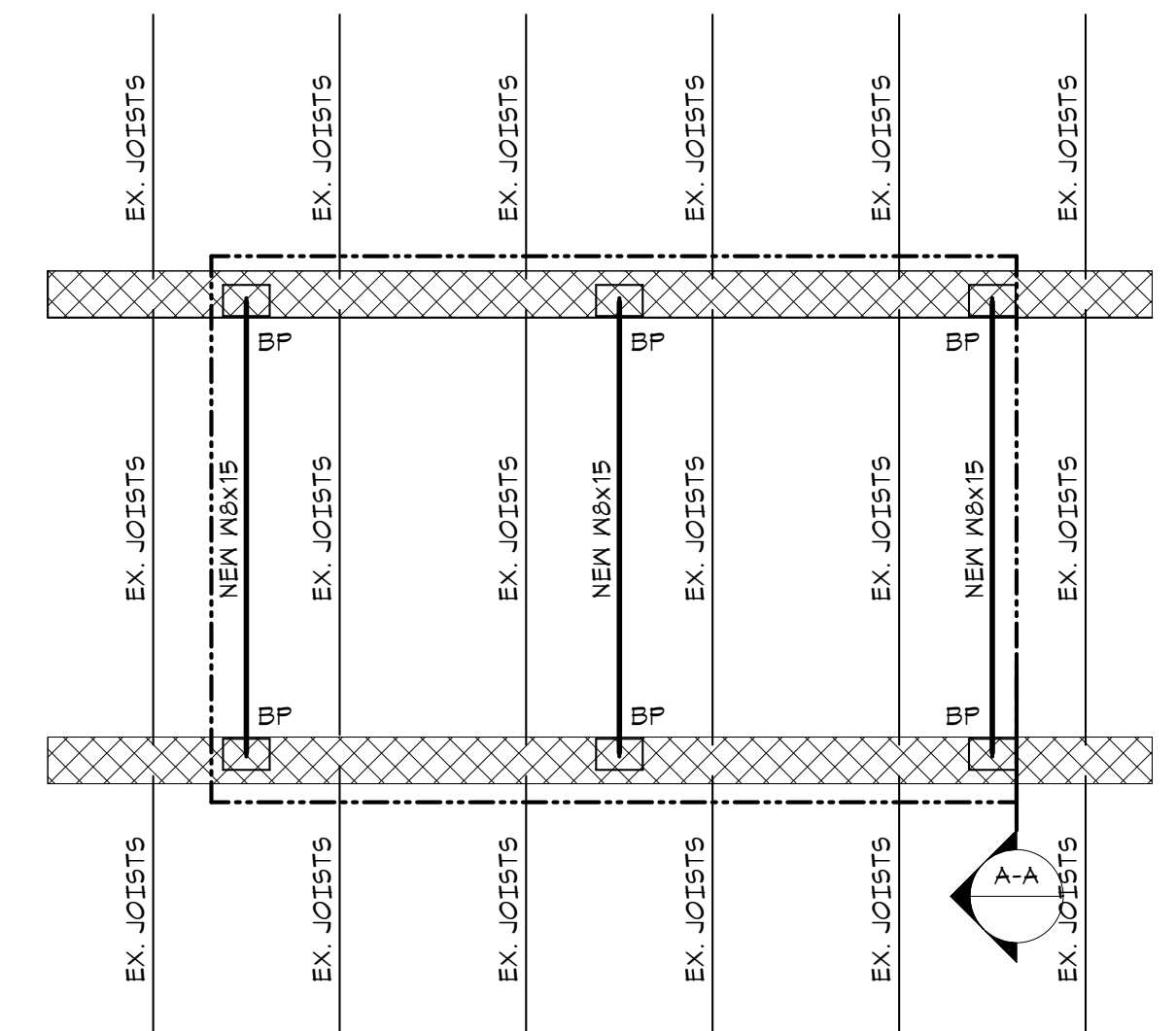


- NOTE "A": SEE MECHANICAL DWGS. FOR CONNECTION OF CURB TO SUPPORTING STRUCTURE
- NOTE "B": PROVIDE STRUCTURAL CURB FOR RTU UNITS. NO SPLICE ALLOWED IN CURB.

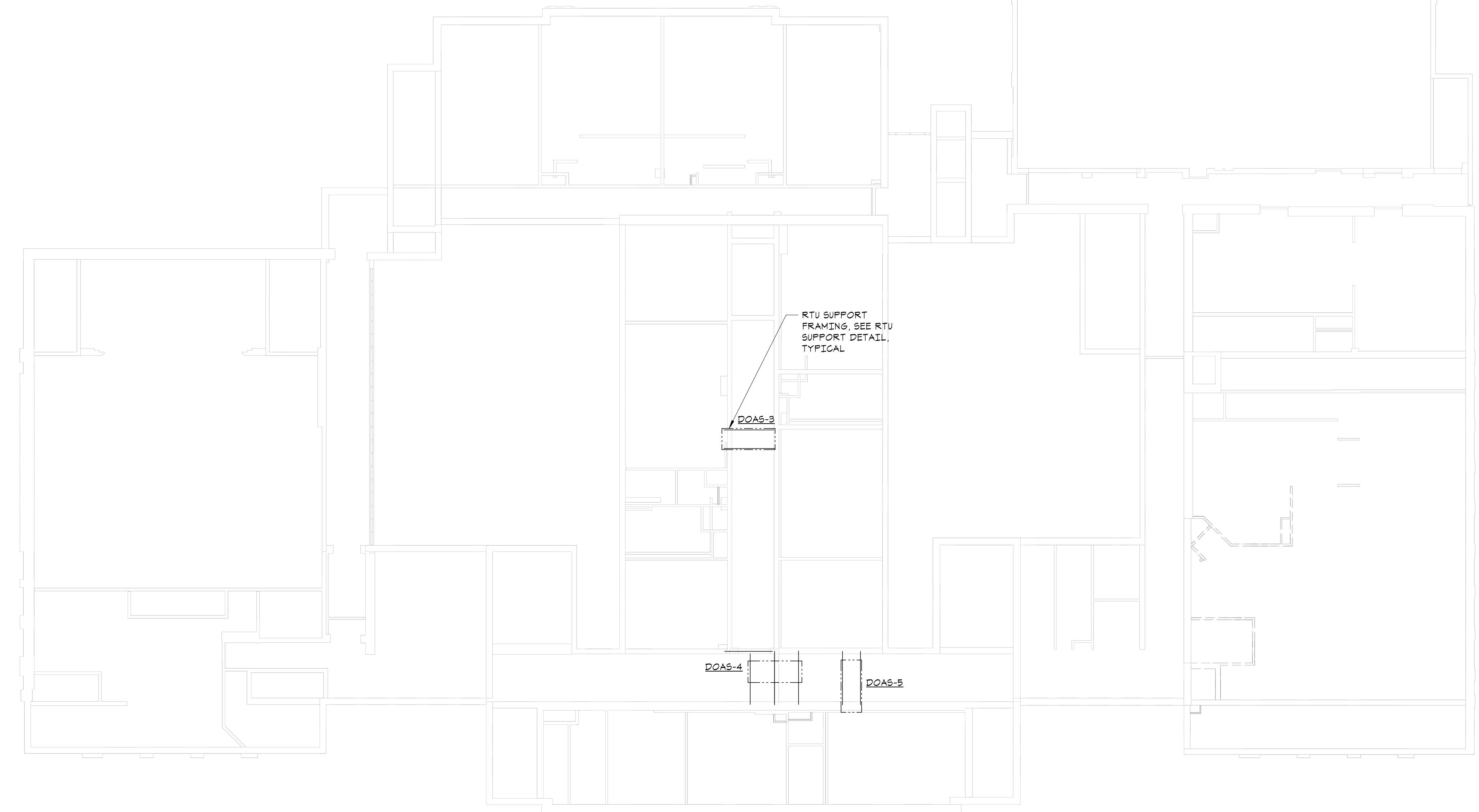
2 TYPICAL BRG. POCKET DETAIL
NO SCALE

OVERALL ROOF AND RTU LOCATION PLAN
1/16"=1'-0"

- COORDINATE SIZE AND LOCATION OF ALL ROOF PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL ROOF PENETRATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION OF PENETRATION FRAMING ELEMENTS. PROVIDE FRAMING AS INDICATED IN "TYPICAL ROOF/FLOOR OPENING DETAIL". DO NOT SCALE OPENINGS.
- MAXIMUM HEIGHT OF MECHANICAL UNITS, (INCLUDING WEIGHT OF CURB) USED IN THE DESIGN OF SUPPORTING MEMBERS ARE INDICATED ON THE PLANS. SEE MECHANICAL DRAWINGS FOR LOCATION OF MECHANICAL UNITS. FOR FRAMING INFORMATION, SEE "TYPICAL ROOFTOP UNIT CURB DETAIL" AND GENERAL NOTES.
- SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.



1 TYPICAL RTU SUPPORT DETAIL
NO SCALE



DEMOLITION KEYNOTES

- 5 CREATE NEW OPENING IN EXIST MASONRY WALL FOR NEW DUCTWORK - SAW CUT AS REQ. FIRE PROOFING & ROUGH PATCH BY TRADE. FINISH PATCH & MATCH BY PRIME REG WORK - PROVIDE NEW LINTELS IN EXIST MASONRY WALLS AS REQ. - COORD W/ STRUCTURAL, MEP & NEW CONSTRUCTION
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- 40 REMOVE EXIST THROUGH WINDOW A/C SYSTEM - PRIOR TO DISPOSAL, CONFIRM W/ OWNER THEIR DESIRE TO EITHER DISPOSE OF UNIT OR TO BE PLACED IN A LOCATION AS DIRECTED - UPON REMOVAL, MEP PRIME TO RESTORE/REPAIR WINDOW SYSTEM TO PROPER OPERATION.

DEMOLITION NOTES

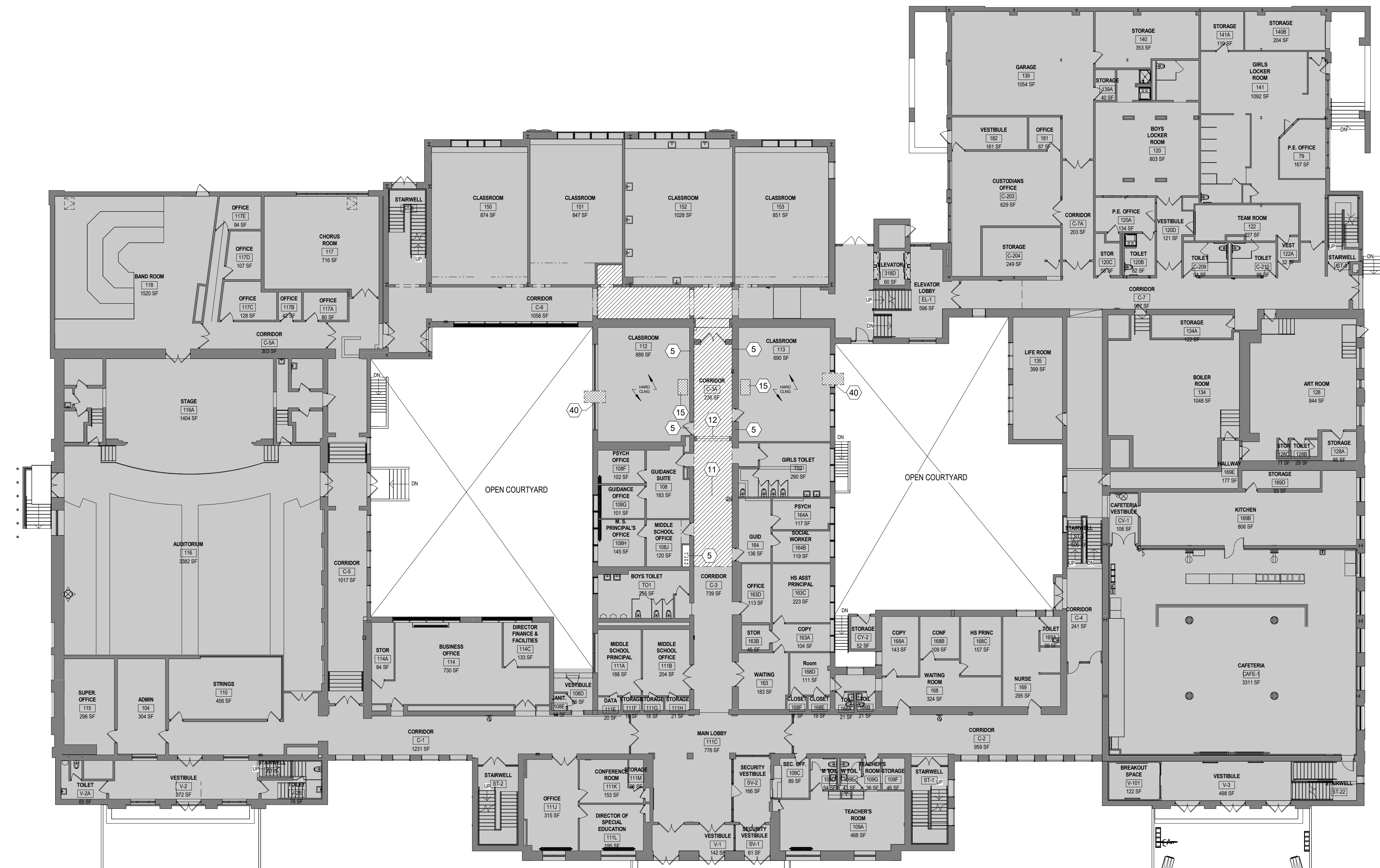
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- 4 - - - - DENOTES EXISTING CONSTRUCTION TO BE DEMOLISHED (U.N.O.).
 - MOST EXISTING INTERIOR WALLS ARE OF MASONRY CONSTRUCTION w/ CEMENT PLASTER & LATH.
 - MOST EXISTING EXTERIOR WALLS ARE BRICK w/ BLOCK BACKUP & SOME HAVE INNER WYTHE OF BLOCK w/ CEMENT PLASTER & LATH.
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- 8 IN AREAS OF CONSTRUCTION - PROTECT ALL EXIST FLOORS THAT ARE TO REMAIN W/ RAMBOARD OR EQ. THROUGHOUT ALL PHASES OF CONSTRUCTION - TYP

TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS
 TUCKAHOE UNION FREE SCHOOL DISTRICT
 65 SIWANOV BLVD
 EASTCHESTER, N. Y. 10709



NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-025

CONSTRUCTION DOCUMENTS



1 OVERALL 1ST FLOOR DEMOLITION PLAN
 1/16" = 1'-0"

KEY PLAN

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1	12/04/2023	ISSUED FOR BID
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OVERALL 1ST FLOOR DEMOLITION PLAN

Job No.	2023-1031	Date	08/18/2023
Scale	AS NOTED	Drawn / Checked	Author Checker

Sheet Number
A101M

DEMOLITION KEYNOTES

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- 31 EXIST MEP UNIT VENT EQUIP INCLUDING THROUGH WALL FRESH AIR PENETRATION & EXTERIOR LOUVER TO BE REMOVED BY MEP PRIME - FIRE PROOFING & ROUGH PATCH BY TRADE. FINISH PATCH & MATCH TO EXIST ADJACENT SURFACES BY PRIME REQ WORK - INFILL EXTERIOR WALL W/ MATCHING MATERIALS - SEE MEP DRAWINGS FOR FURTHER INFO
- 32 EXIST MEP DUCTWORK & RELATED EQUIP INCLUDING THROUGH FLOOR/WALL/CEILING/ROOF PENETRATION TO BE REMOVED BY MEP PRIME - FIRE PROOFING & ROUGH PATCH BY TRADE - FINISH PATCH & MATCH TO EXIST ADJACENT SURFACES BY PRIME REQ WORK - INFILL W/ MATCHING MATERIALS - FIRE PROOFING AS REQUIRED - SEE MEP DRAWINGS FOR FURTHER INFO
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DEMOLITION NOTES

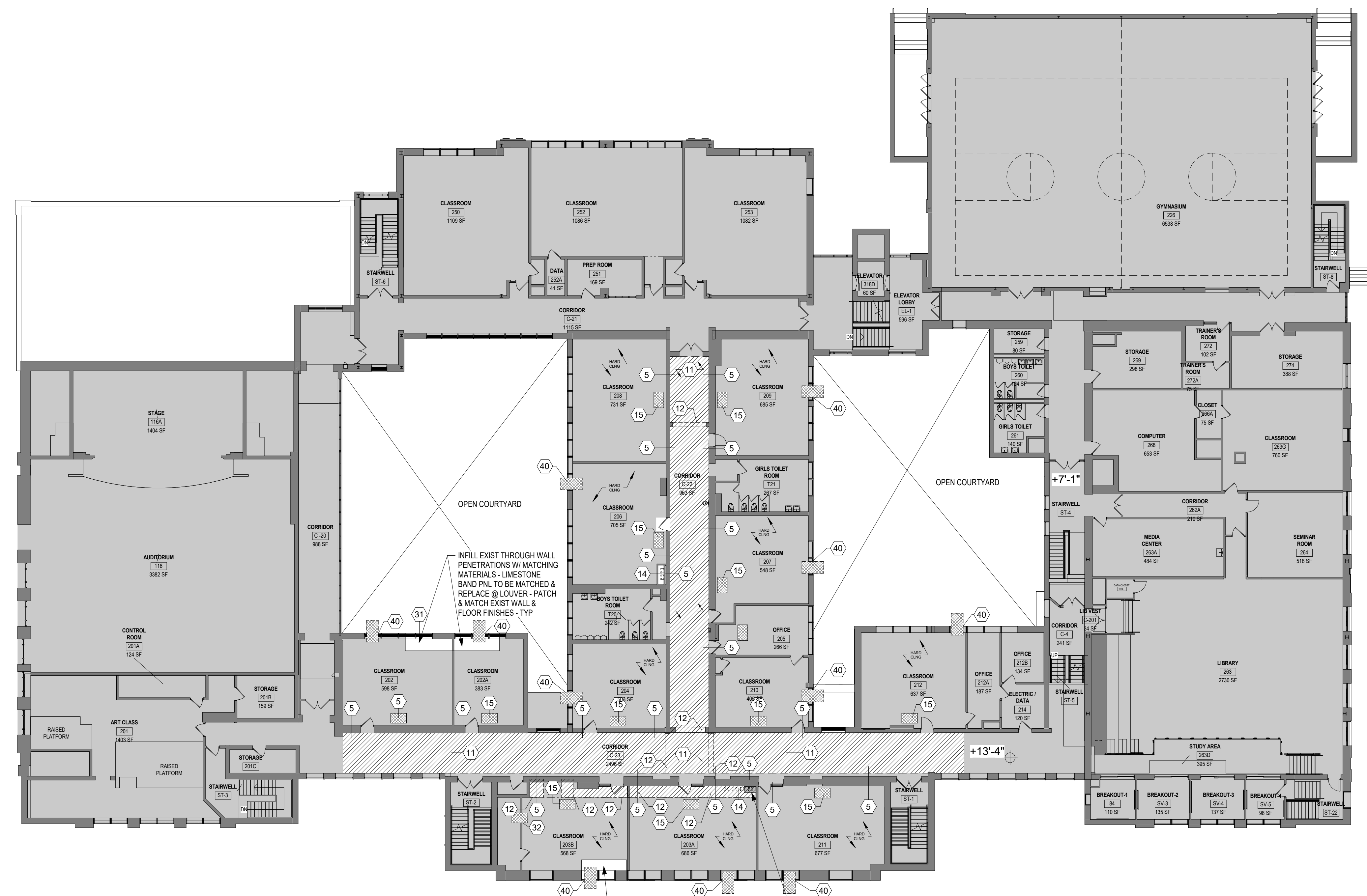
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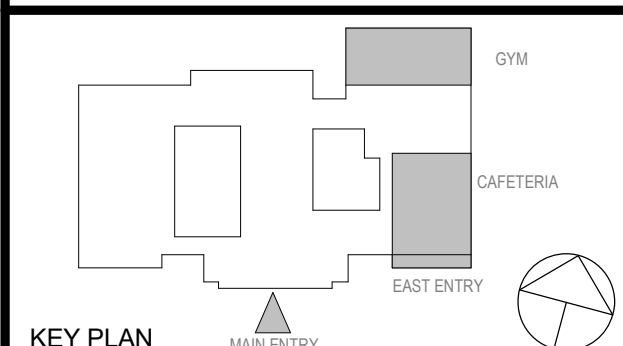
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NY SED PROJECT CONTROL NO.
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CONSTRUCTION DOCUMENTS



1 OVERALL 2ND FLOOR DEMOLITION PLAN
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1 12/04/2023 ISSUED FOR BID
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OVERALL 2ND FLOOR DEMOLITION PLAN

Job No. 2023-1031 Date 08/18/2023
 Scale AS NOTED Drawn / Checked Author Checker

Sheet Number
A102M

DEMOLITION KEYNOTES

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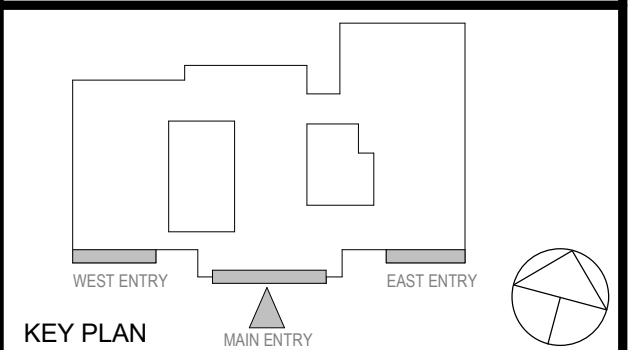
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NY SED PROJECT CONTROL NO.

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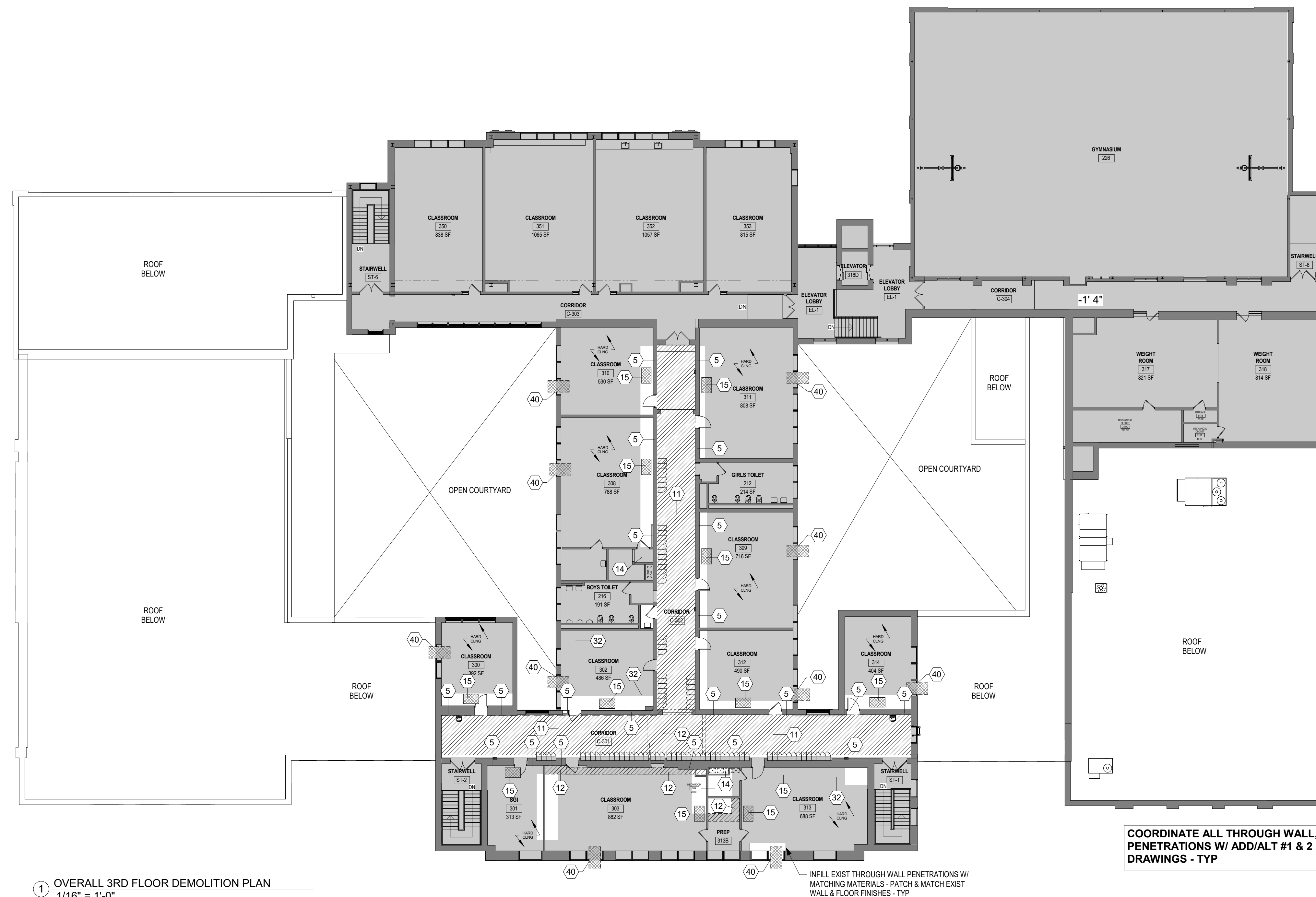
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1	12/04/2023	ISSUED FOR BID
No.	Date	Issue

OVERALL 3RD FLOOR DEMOLITION PLAN

Job No.	2023-1031	Date	08/18/2023
Scale	AS NOTED	Drawn / Checked	Author Checker

Sheet Number
A103M



COORDINATE ALL THROUGH WALL, FLOOR & CEILING PENETRATIONS W/ ADD/ALT #1 & 2 AS SHOWN ON MEP DRAWINGS - TYP

1 OVERALL 3RD FLOOR DEMOLITION PLAN
 1/16" = 1'-0"

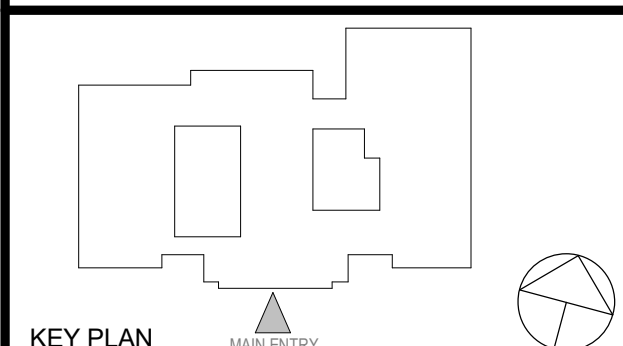
INFILL EXIST THROUGH WALL PENETRATIONS W/ MATCHING MATERIALS - PATCH & MATCH EXIST WALL & FLOOR FINISHES - TYP

**TUCKAHOE
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SCHOOL
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**CONSTRUCTION
DOCUMENTS**



KEY PLAN
MAIN ENTRY

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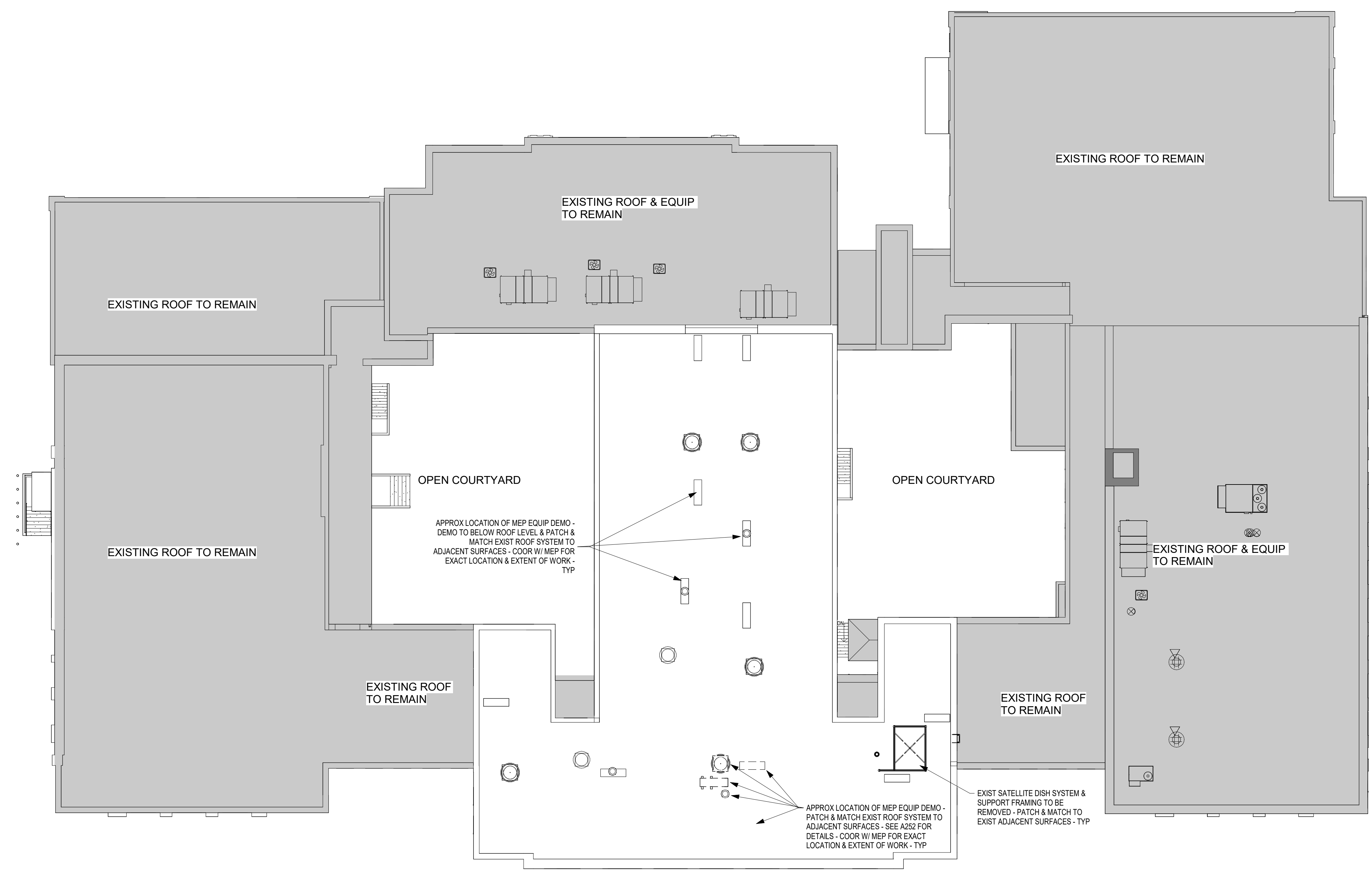
**ROOF
DEMOLITION
PLAN**

Job No. 2023-1031	Date 08/18/2023
Scale AS NOTED	Drawn / Checked Author Checker

Sheet Number
A104M

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 - MOST EXISTING INTERIOR WALLS ARE OF MASONRY CONSTRUCTION w/ CEMENT PLASTER & LATH.
 - MOST EXISTING EXTERIOR WALLS ARE BRICK w/ BLOCK BACKUP & SOME HAVE INNER WYTHE OF BLOCK w/ CEMENT PLASTER & LATH.
- 5 DENOTES EXISTING WALL TO REMAIN
- 6 PRIOR TO ANY DEMOLITION CONTRACTORS ARE REQUIRED TO BE FAMILIAR WITH EXISTING CONDITIONS. SHORING MAY BE NEEDED INCLUDING INSTALLATION OF LINTELS PRIOR TO THE REMOVAL OF ANY BUILDING ELEMENT.
- 7 COORDINATE ALL DEMOLITION w/ M.E.P. REMOVALS. NOTE: ALL WIRING, DEVICES & M.E.P. SYSTEMS NOT BEING REMOVED AS PART OF THE WORK, WHICH RUN THROUGH THE WORK AREA, SHALL BE TESTED, LABELED & PROTECTED FROM DISTURBANCE SO THEY REMAIN OPERATIONAL THROUGHOUT THE PROJECT.
- 8 IN AREAS OF CONSTRUCTION - PROTECT ALL EXIST FLOORS THAT ARE TO REMAIN w/ RAMBOARD OR EQ - THROUGHOUT ALL PHASES OF CONSTRUCTION - TYP



1 OVERALL ROOF DEMOLITION PLAN
1/16" = 1'-0" FOR REFERENCE ONLY - SEE A201-A204 & MEP DWGS FOR COMPLETE WORK

**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**
TUCKAHOE UNION FREE
SCHOOL DISTRICT
65 SIWANOV BLVD
EASTCHESTER, N. Y. 10709



NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-025
**CONSTRUCTION
DOCUMENTS**

KEY PLAN

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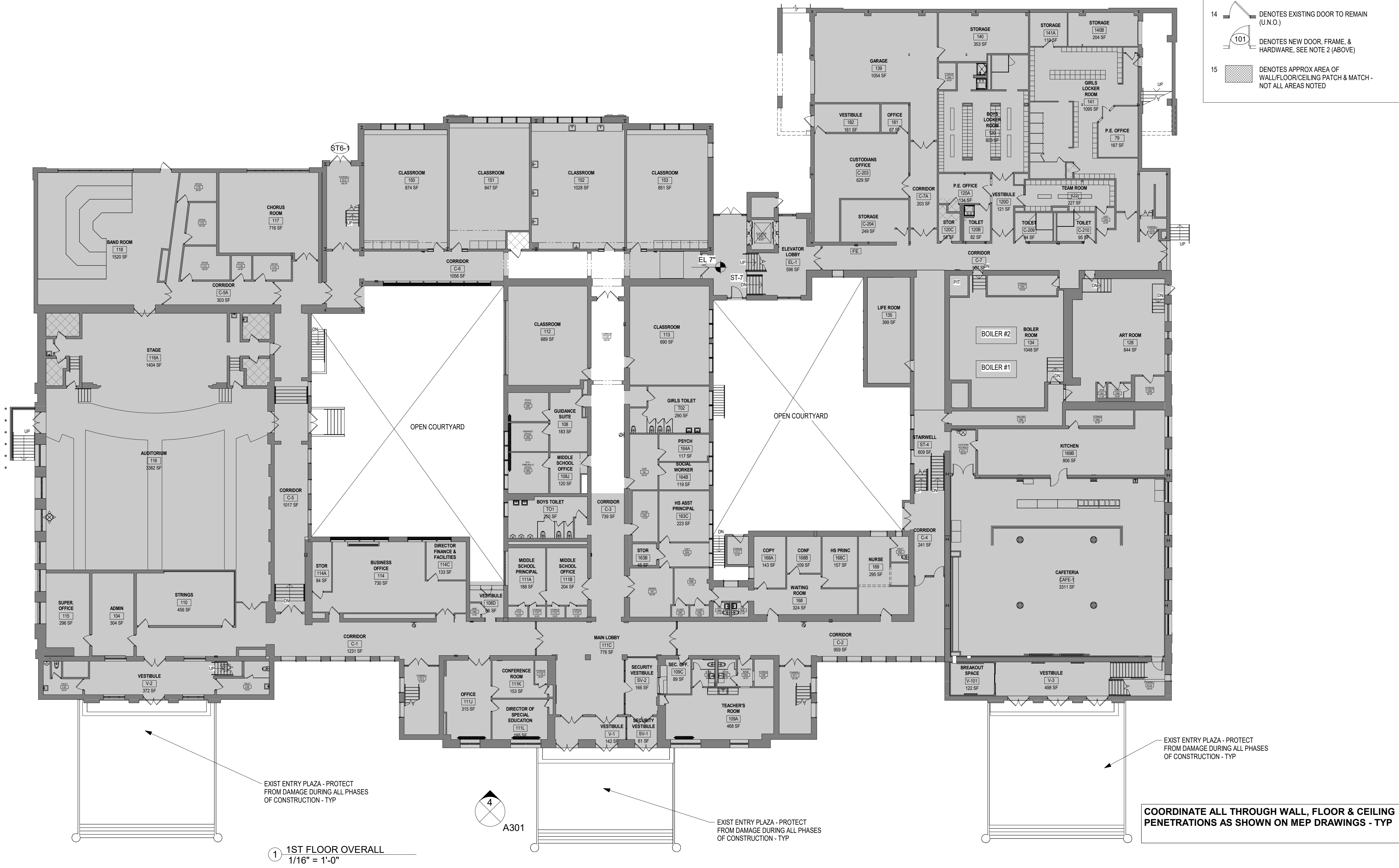
**OVERALL 1ST
FLOOR PLAN**

Job No. 2023-1031	Date 08/18/2023
Scale AS NOTED	Drawn / Checked Author Checker

Sheet Number
A201M

GENERAL NOTES

- 1 DENOTES AREA OF NO MAJOR ARCHITECTURAL RENOVATION WORK, SPECIFIC WORK MAY BE SHOWN ELSEWHERE. REFER TO M.E.P. DWGS.
- 2 (101) DENOTES DOOR NUMBER SEE A902 FOR DOOR SCHEDULE. SEE SPECS. FOR HARDWARE SETS & INFO
- 3 RW DENOTES RESCUE WINDOW SEE A903
- 4 DENOTES EXISTING WALL TO REMAIN (MOST EXISTING WALLS ARE MASONRY)
- 5 DENOTES 2hr RATED WALL
- 6 DENOTES WALL TYPE & FIRE RATING, WHERE SHOWN (SEE A901)
- 7 DENOTES HOLLOW METAL FRAME w/ SIDELITE OR TRANSOM (SEE A903)
- 8 FINISH SCHEDULE & ABBREVIATION LIST - SEE DWG. A501
- 9 ALL CORRIDOR WALLS ARE TO HAVE AT LEAST A 1hr FIRE RATING (EVEN IF NOT LABELED)
- 10 DIMENSIONS SHOWN FOR INTERIOR WALLS ARE: 'FACE OF STRUCTURE' OR 'FACE OF CMU'
- 11 FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS 4" (TYP) U.N.O. (SEE A & B ON A902)
- 12 MB8, TB4 - DENOTES MARKERBOARD OR TACKBOARD OF SPECIFIED LENGTH (FT)
- 13 SB - DENOTES "SMART BOARD" FURNISHED BY OWNER, INSTALLED BY G.C.
- 14 DENOTES EXISTING DOOR TO REMAIN (U.N.O.)
- 15 (101) DENOTES NEW DOOR, FRAME, & HARDWARE. SEE NOTE 2 (ABOVE)
- 16 DENOTES APPROX AREA OF WALL/FLOOR/CEILING PATCH & MATCH - NOT ALL AREAS NOTED



1 1ST FLOOR OVERALL
1/16" = 1'-0"

EXIST ENTRY PLAZA - PROTECT FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION - TYP

EXIST ENTRY PLAZA - PROTECT FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION - TYP

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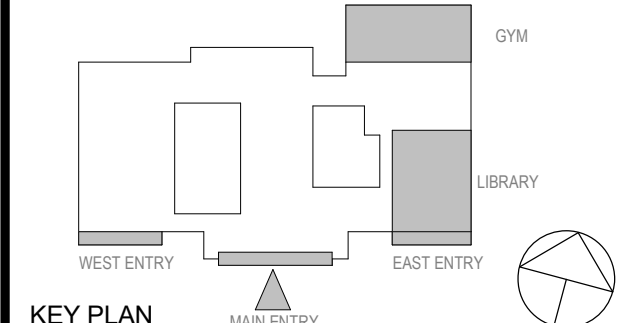
COORDINATE ALL THROUGH WALL, FLOOR & CEILING PENETRATIONS AS SHOWN ON MEP DRAWINGS - TYP

TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS
 TUCKAHOE UNION FREE SCHOOL DISTRICT
 65 SIWANOV BLVD
 EASTCHESTER, N. Y. 10709



NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-025

CONSTRUCTION DOCUMENTS



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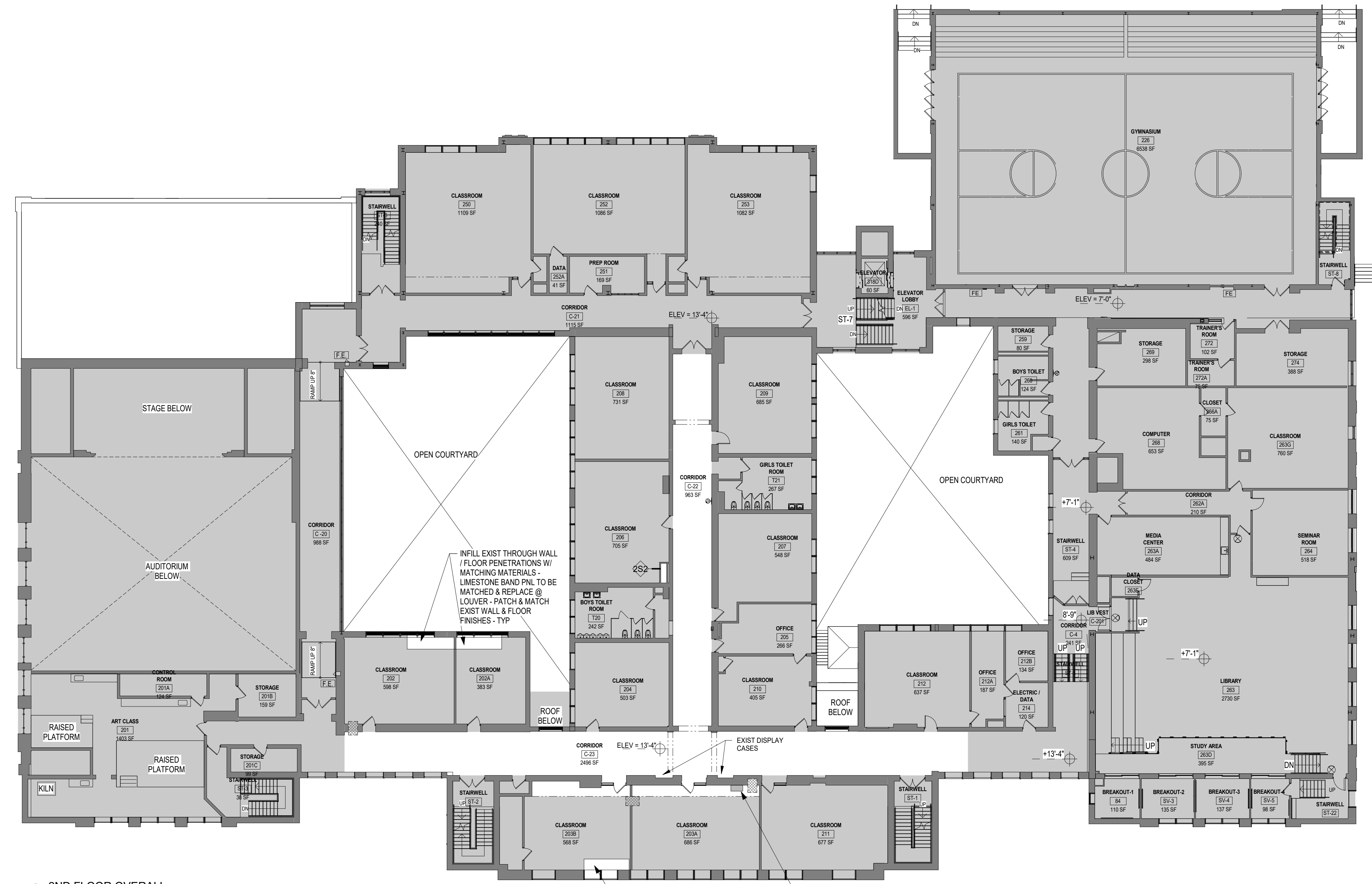
OVERALL 2ND FLOOR PLAN

Job No.	2023-1031	Date	08/18/2023
Scale	AS NOTED	Drawn / Checked	Author Checker

Sheet Number
A202M

GENERAL NOTES

- DENOTES AREA OF NO MAJOR ARCHITECTURAL RENOVATION WORK. SPECIFIC WORK MAY BE SHOWN ELSEWHERE. REFER TO M.E.P. DWGS.
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- RW DENOTES RESCUE WINDOW SEE A903
- DENOTES EXISTING WALL TO REMAIN (MOST EXISTING WALLS ARE MASONRY)
- DENOTES 2hr RATED WALL
- DENOTES WALL TYPE & FIRE RATING, WHERE SHOWN (SEE A901)
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- (101) DENOTES NEW DOOR, FRAME, & HARDWARE. SEE NOTE 2 (ABOVE)
- DENOTES APPROX AREA OF WALL/FLOOR/CEILING PATCH & MATCH - NOT ALL AREAS NOTED



1 2ND FLOOR OVERALL
 1/16" = 1'-0"

INFILL EXIST THROUGH WALL / FLOOR PENETRATIONS W/ MATCHING MATERIALS - LIMESTONE BAND PNL TO BE MATCHED & REPLACE @ LOUVER - PATCH & MATCH EXIST WALL & FLOOR FINISHES - TYP

INFILL EXIST THROUGH WALL / FLOOR PENETRATIONS W/ MATCHING MATERIALS - PATCH & MATCH EXIST WALL & FLOOR FINISHES - TYP

NEW GYP BD CHASE FOR DUCTWORK IN THIS LOCATION. EXISTING 3'-0" W TALL STORAGE CABINET TO BE PLACED ADJACENT TO CHASE. INSTALL NEW 1X8" OAK STAINED BASE BOARD AND SHOE MOLDING

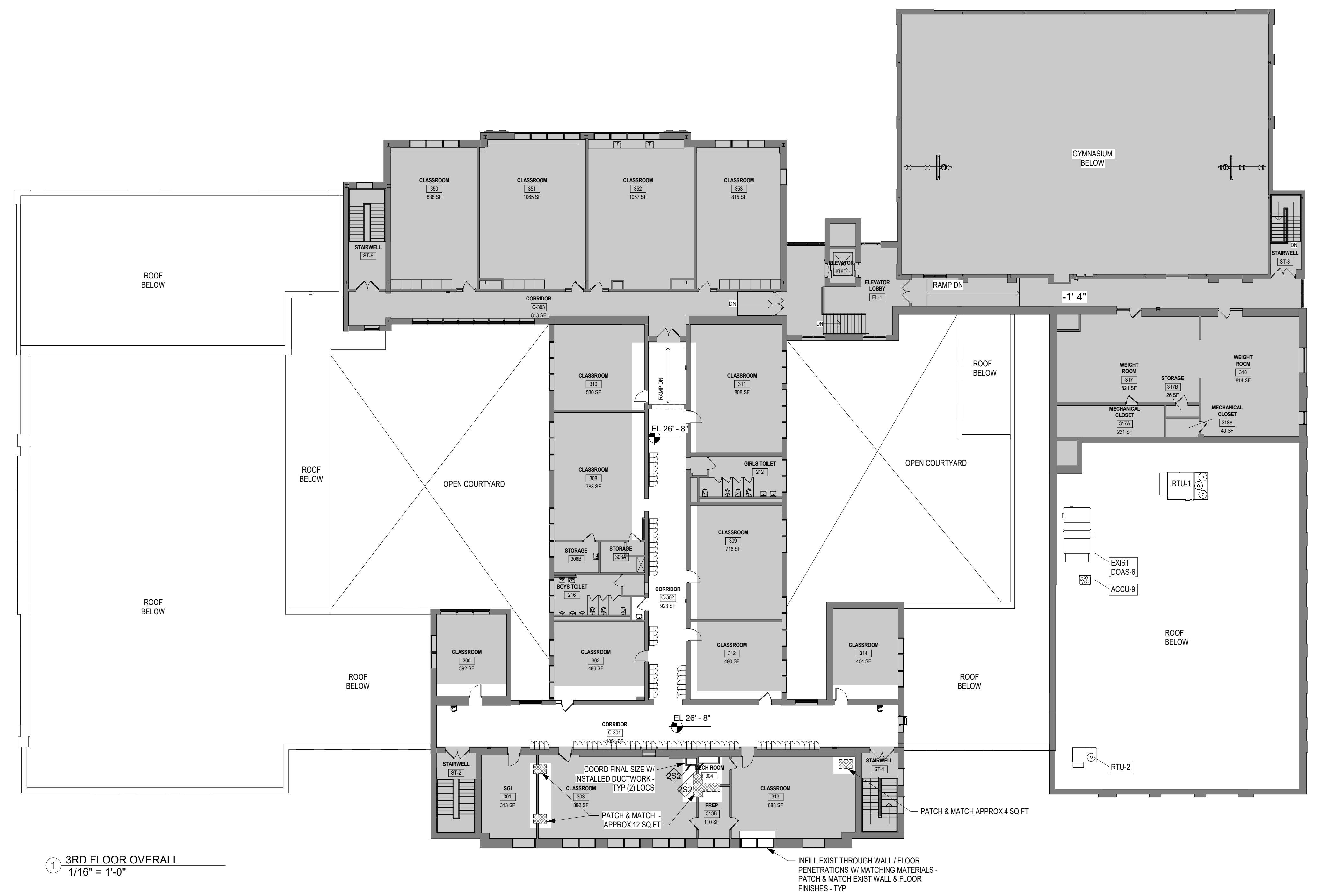
COORDINATE ALL THROUGH WALL, FLOOR & CEILING PENETRATIONS AS SHOWN ON MEP DRAWINGS - TYP

TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS

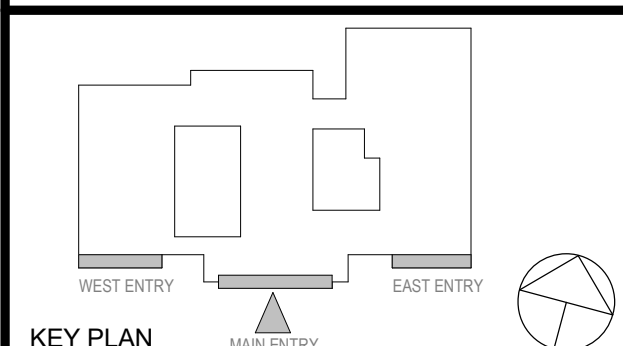
TUCKAHOE UNION FREE SCHOOL DISTRICT
65 SIWANOV BLVD
EASTCHESTER, N. Y. 10709



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NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-025
CONSTRUCTION DOCUMENTS



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No.	Date	Issue
1	12/04/2023	ISSUED FOR BID

OVERALL 3RD FLOOR PLAN

Job No. 2023-1031	Date 08/18/2023
Scale AS NOTED	Drawn / Checked Author Checker

Sheet Number
A203M

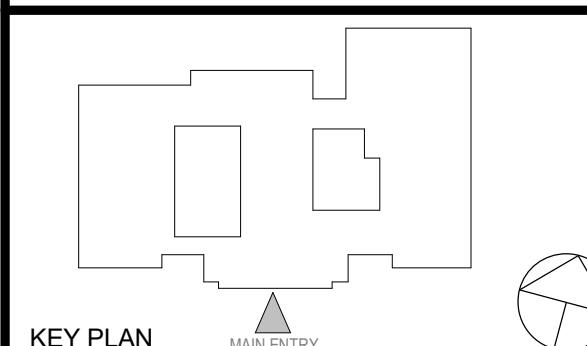
**TUCKAHOE
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SCHOOL
ALTERATIONS**
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NY SED PROJECT CONTROL NO.

66-03-02-03-0-002-025

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No.	Date	Issue
1	12/04/2023	ISSUED FOR BID

Sheet Title

ROOF PLAN

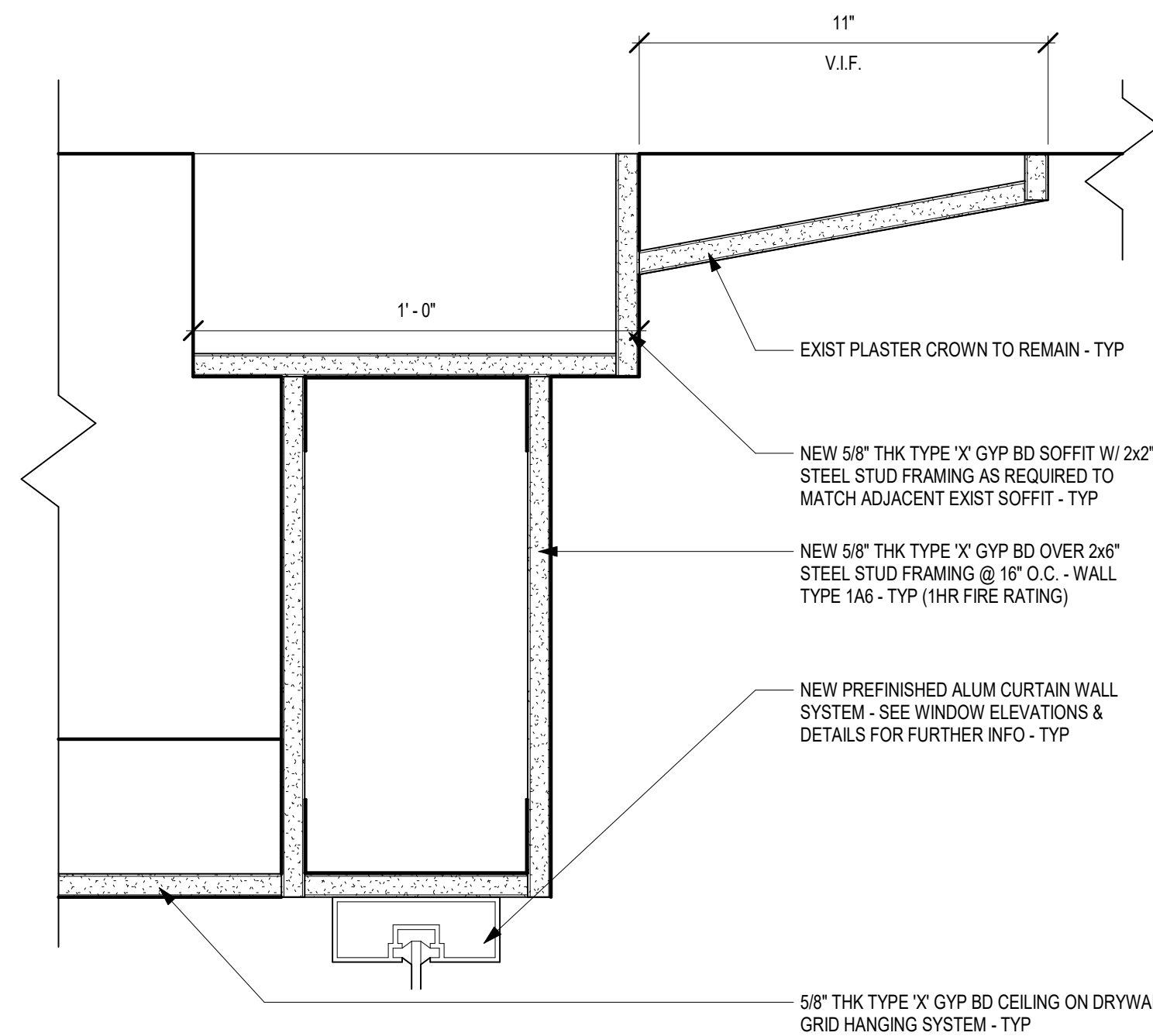
Job No. 2023-1031	Date 08/18/2023
Scale AS NOTED	Drawn / Checked Author Checker

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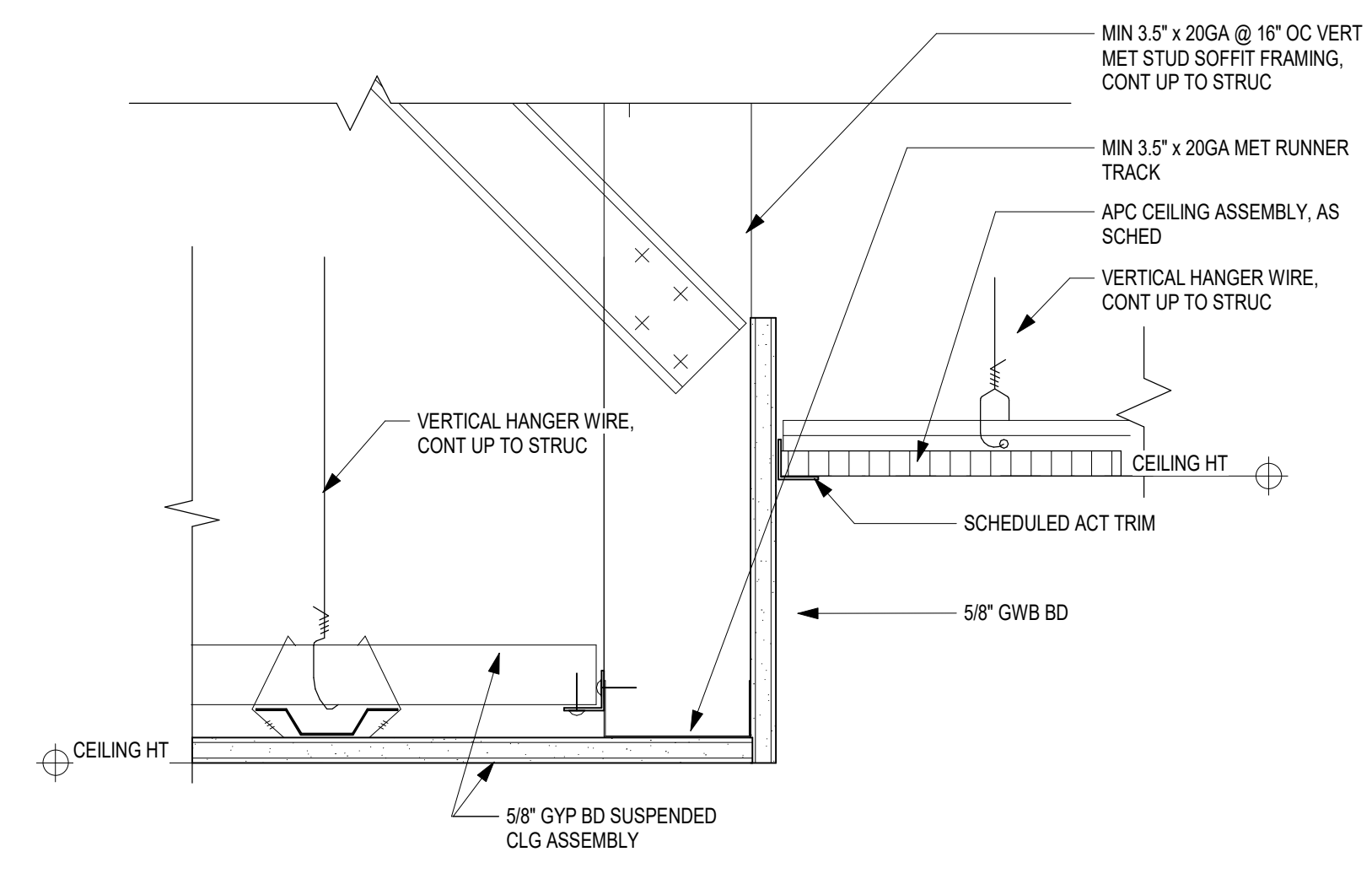
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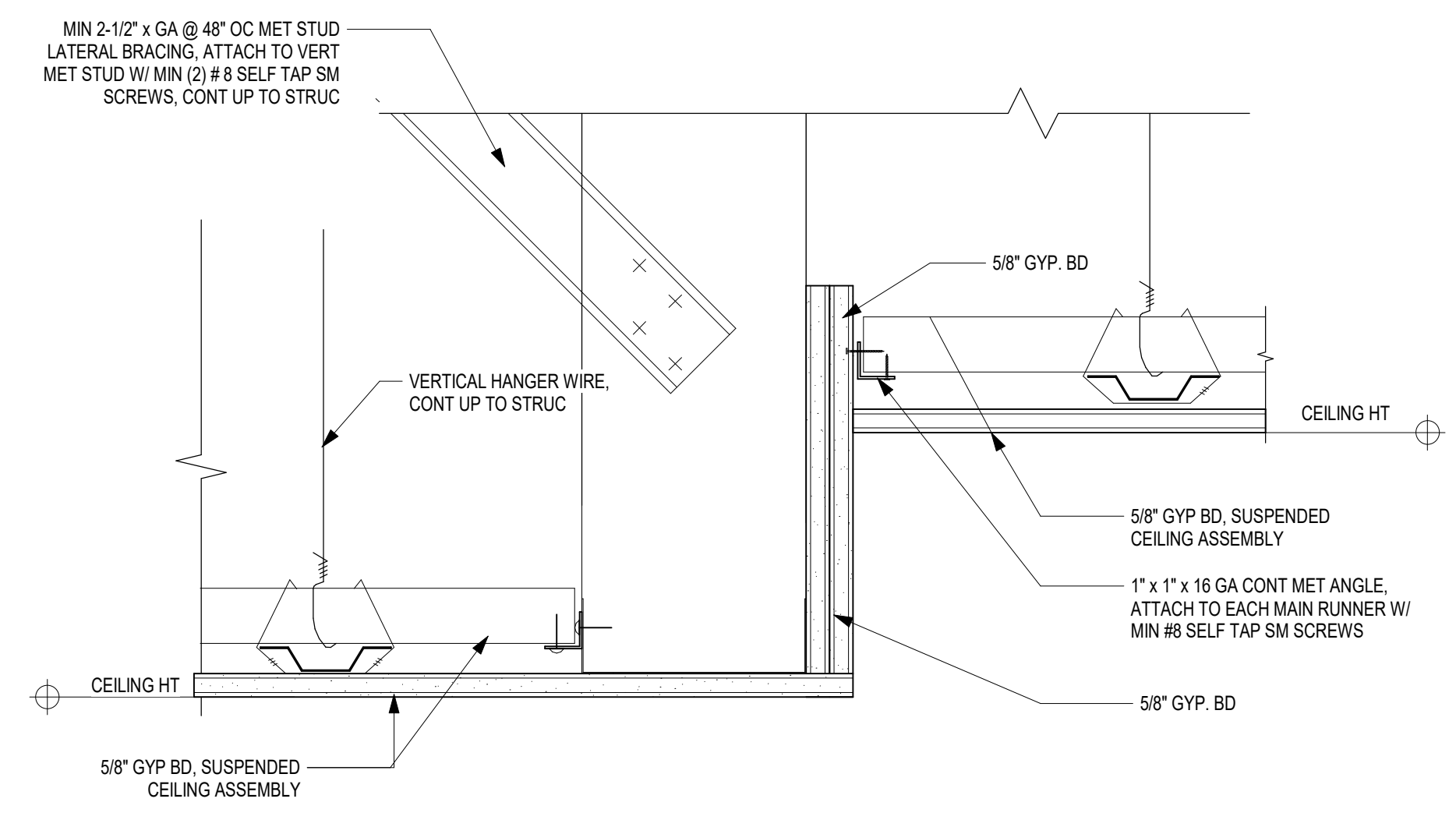
1 OVERALL ROOF PLAN
1/16" = 1'-0"



6 SECTION THROUGH VESTIBULE CEILING BEAM
3" = 1'-0"



5 TYPICAL CEILING DETAIL GYP - ACT
3" = 1'-0"

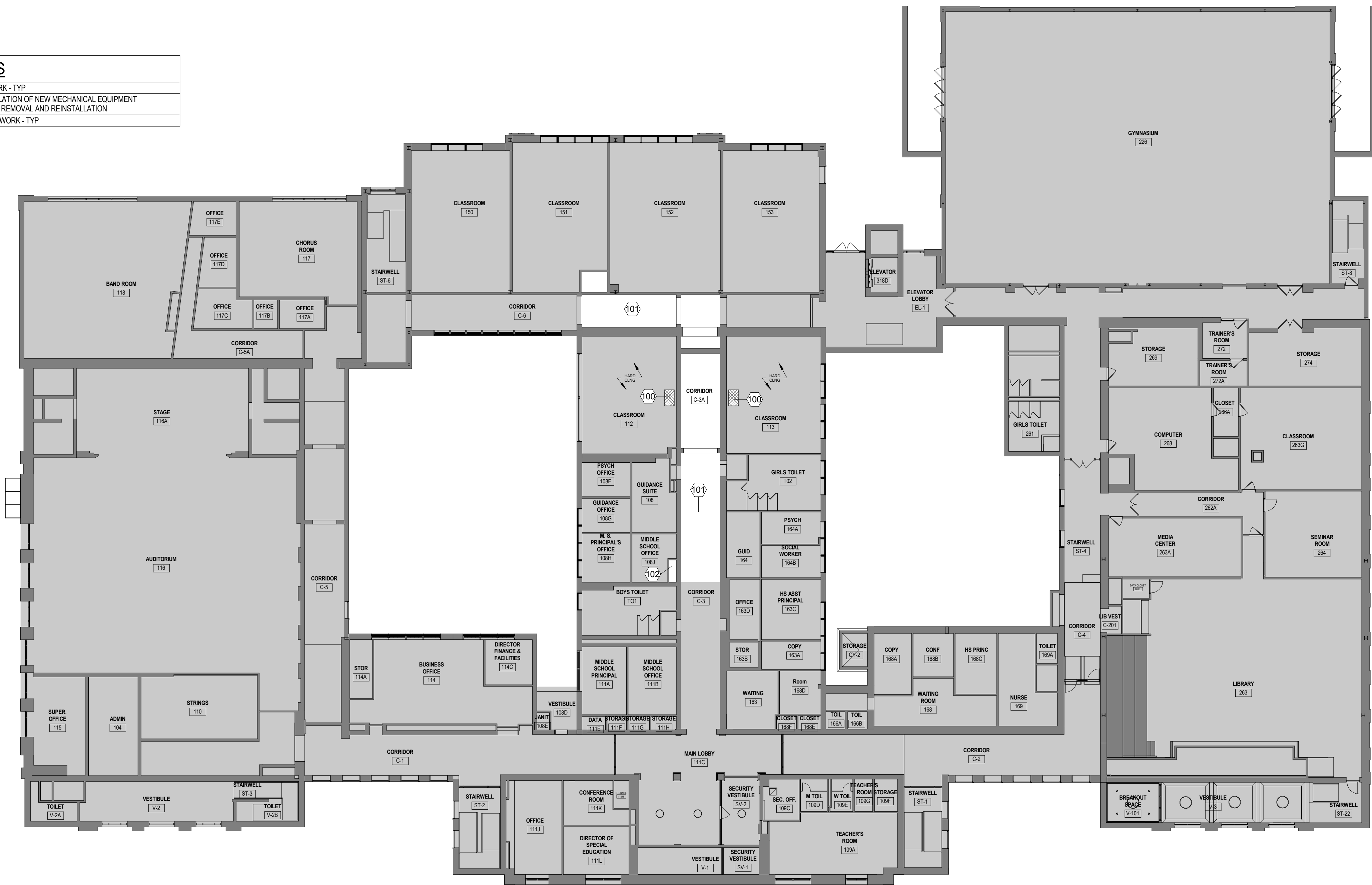


3 TYPICAL CEILING DETAIL GYP - GYP
3" = 1'-0"

- CEILING NOTES**
- 1 DENOTES AREA OF NO MAJOR ARCHITECTURAL WORK, UNLESS NOTED ELSEWHERE IN THE DOCUMENTS - SEE M.E.P. DWGS.
 - 2 CEILING GRIDS ARE TO BE CENTERED IN ROOM. ALL CEILING FIXTURES, INCLUDING EXIT SIGNS, HVAC REGISTERS, ARE TO BE CENTERED IN CEILING TILES.
 - 3 SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE
 - 4 FINISH SCHEDULE - SEE DWG. A501
 - 5 CEILING HEIGHTS SHOWN IN PLANS, SECTIONS, & DETAILS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ON SCHEDULES
 - 6 DENOTES AREA OF EXIST ACT CEILING SYSTEM & LIGHT FIXTURES TO BE REMOVED, STORED & REINSTALLED UPON COMPLETION OF MEP WORK.
 - 7 DENOTES AREA OF EXIST CEILING LIGHT FIXTURES TO BE REMOVED, STORED & REINSTALLED UPON COMPLETION OF MEP WORK - ACT CEILING SYSTEM TO BE REPLACED - TYP
 - 8 DENOTES AREA OF NEW ACT CEILING SYSTEM & LIGHT FIXTURES TO BE REMOVED & DISPOSED - PREP FOR INSTALLATION OF NEW SYSTEM - TYP

CONSTRUCTION KEYNOTES

100	PATCH & MATCH THROUGH WALL/CEILING PENETRATIONS UPON COMPLETION OF MECHANICAL WORK - TYP
101	REINSTALL PREVIOUSLY REMOVED & STORED EXIST CEILING TILES & GRID IN THIS AREA UPON INSTALLATION OF NEW MECHANICAL EQUIPMENT INSTALLATION - ADD 10% NEW GRID & CEILING TILES TO MATCH EXIST MATERIALS DAMAGED DURING REMOVAL AND REINSTALLATION
102	PATCH & MATCH ANY THROUGH WALL/CEILING PENETRATIONS UPON COMPLETION OF MECHANICAL WORK - TYP



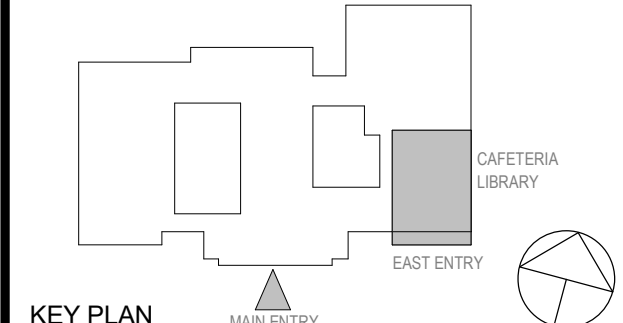
NOTE:
ACOUSTICAL CEILING TILES SHALL COMPLY WITH SED REQUIREMENTS - TYP

Food Storage, Preparation, and Serving areas, Toilet rooms, Shower, and Locker rooms, and similar areas shall have appropriate non-absorbent, impervious floor, ceiling and wall surfaces which will facilitate cleaning.



NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-025

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No.	Date	Issue

1ST FLOOR REFLECTED CEILING PLAN

Job No.	2023-1031	Date	08/18/2023
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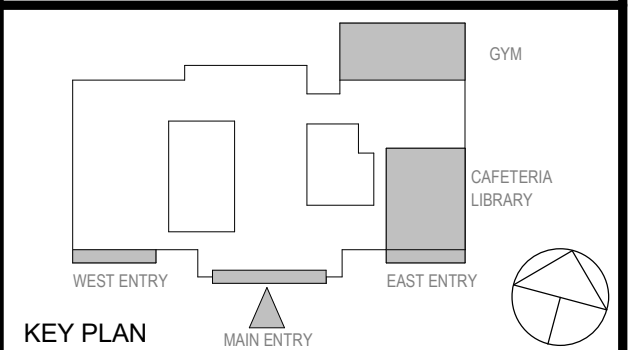
Sheet Number
A601M

**TUCKAHOE
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**CONSTRUCTION
DOCUMENTS**



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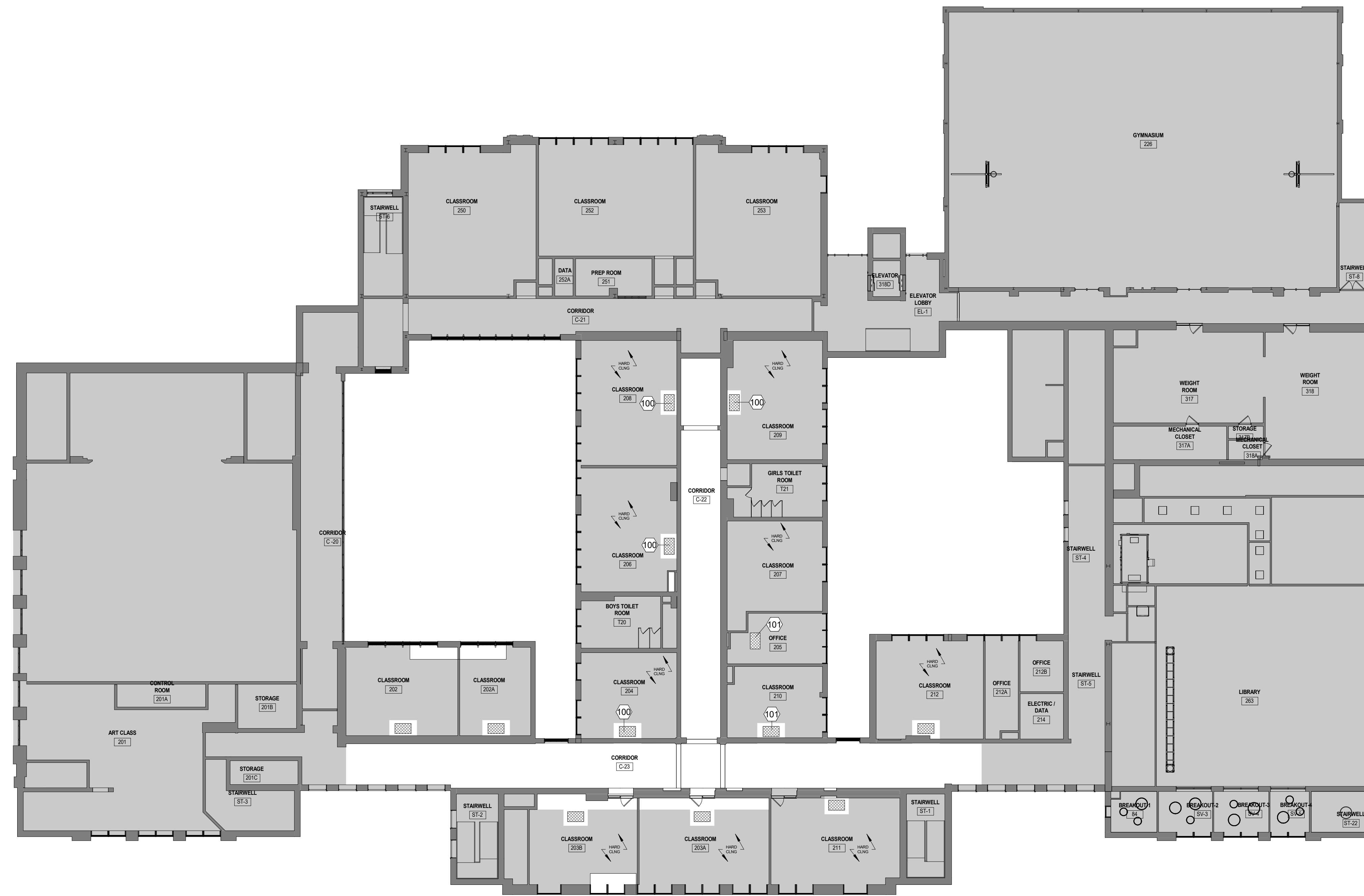
Sheet Title

**2ND FLOOR
REFLECTED
CEILING PLAN**

Job No. 2023-1031	Date 08/18/2023
Scale AS NOTED	Drawn / Checked Author Checker

Sheet Number
A602M

CONSTRUCTION KEYNOTES	
100	PATCH & MATCH THROUGH WALL/CEILING PENETRATIONS UPON COMPLETION OF MECHANICAL WORK - TYP
101	REINSTALL PREVIOUSLY REMOVED & STORED EXIST CEILING TILES & GRID IN THIS AREA UPON INSTALLATION OF NEW MECHANICAL EQUIPMENT INSTALLATION - ADD 10% NEW GRID & CEILING TILES TO MATCH EXIST MATERIALS DAMAGED DURING REMOVAL AND REINSTALLATION



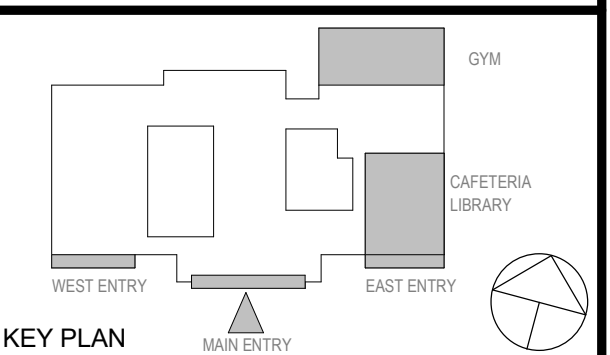
1 2ND FLOOR RCP
1/16" = 1'-0"

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NY SED PROJECT CONTROL NO.
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**CONSTRUCTION
DOCUMENTS**



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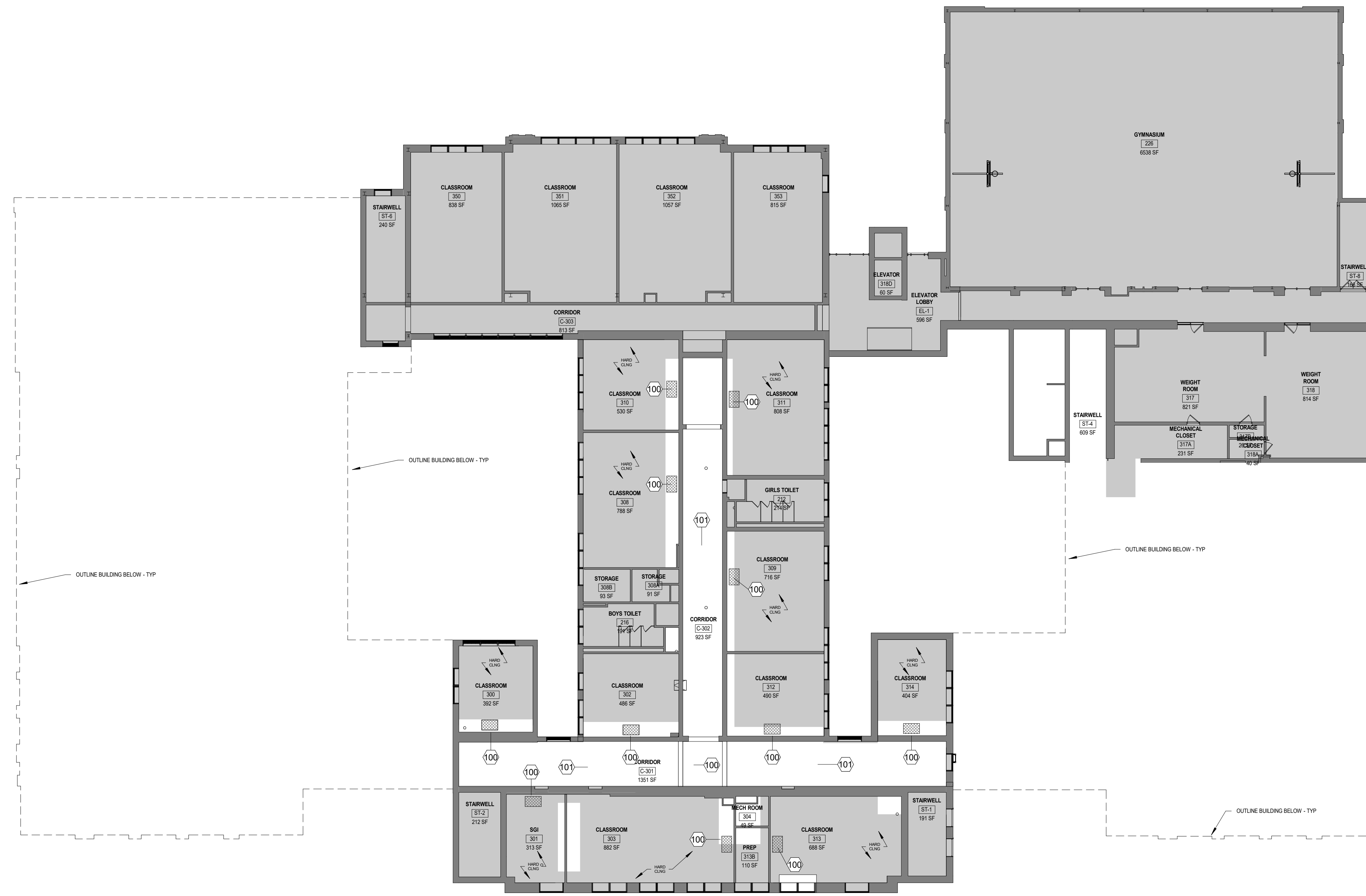
**3RD FLOOR
REFLECTED
CEILING PLAN**

Job No.	2023-1031	Date	08/18/2023
Scale	AS NOTED	Drawn / Checked	Author Checker

Sheet Number
A603M

CONSTRUCTION KEYNOTES

100	PATCH & MATCH THROUGH WALL/CEILING PENETRATIONS UPON COMPLETION OF MECHANICAL WORK - TYP
101	REINSTALL PREVIOUSLY REMOVED & STORED EXIST CEILING TILES & GRID IN THIS AREA UPON INSTALLATION OF NEW MECHANICAL EQUIPMENT INSTALLATION - ADD 10% NEW GRID & CEILING TILES TO MATCH EXIST MATERIALS DAMAGED DURING REMOVAL AND REINSTALLATION



① 3RD FLOOR RCP
1/16" = 1'-0"

SYMBOL & ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
-	ACCU-	AIR COOLED CONDENSING UNIT
-	AD	ACCESS DOOR
-	AFF	ABOVE FINISHED FLOOR
-	AHC	ABOVE HUNG CEILING
-	AP	ACCESS PANEL
-	BHP	BRAKE HORSEPOWER
-	BTU	BRITISH THERMAL UNIT
-	CFM	CUBIC FEET PER MINUTE
-	DB	DRY BULB TEMPERATURE
-	DIA. OR Ø	DIAMETER
-	DOAS	DEDICATED OUTDOOR AIR SYSTEM
-	DX	DIRECT EXPANSION
-	EA	EXHAUST AIR
-	EAT	ENTERING AIR TEMPERATURE
-	EF-	EXHAUST FAN
-	EL	ELEVATION
-	ER	EXHAUST REGISTER
-	ERV	ENERGY RECOVERY VENTILATOR
-	ESP	EXTERNAL STATIC PRESSURE
-	FPM	FEET PER MINUTE
-	FPS	FEET PER SECOND
-	HP	HORSE POWER
-	HV-	HEATING AND VENTILATING UNIT
-	LAT	LEAVING AIR TEMPERATURE
-	LF	LINEAR FEET
-	MBH	1000 BRITISH THERMAL UNITS PER HOUR
-	OAI	OUTSIDE AIR INTAKE
-	PSI	POUNDS PER SQUARE INCH
-	RA	RETURN AIR
-	RPM	REVOLUTIONS PER MINUTE
-	RTU-	ROOFTOP UNIT
-	SA	SUPPLY AIR
-	SP	STATIC PRESSURE
-	TD	TRANSFER DUCT
-	TSP	TOTAL STATIC PRESSURE
-	TYP.	TYPICAL
-	U.O.N.	UNLESS OTHERWISE NOTED
-	WAC	WINDOW AIR CONDITIONER
-	WB	WET BULB TEMPERATURE
-	WG	INCHES OF WATER GAUGE
-	WMS	WIRE MESH SCREEN
— —	-	TEE DOWN
— —	-	ELBOW DOWN
— —	-	TEE UP
— —	-	ELBOW UP
— —	-	CONCENTRIC REDUCER
— —	-	ECCENTRIC REDUCER
— —	-	FLOW ARROW
— —	EX.	EXISTING TO REMAIN
— —	NEW	NEW WORK
- - - - -	DEM.	EXISTING TO BE REMOVED
— —	CD	CONDENSATE DRAIN
— —	LPS	LOW PRESSURE STEAM
— —	LPR	LOW PRESSURE STEAM CONDENSATE RETURN
— —	RL	REFRIGERANT LIQUID
— —	RS	REFRIGERANT SUCTION
Ⓣ	-	THERMOSTAT
Ⓜ	-	HUMIDISTAT
Ⓜ	-	MOTORIZED DAMPER

SED NOTES

- THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY.
- GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:
 - ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
 - FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
 - GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
 - 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.
 - 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 TO 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 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.
 - 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.
 - 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.
- 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 IN "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 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 EXISTING THAT DO NOT PASS THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.

GENERAL NOTES

- CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, SHEET METAL, AND PIPING, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT, SHEET METAL, AND PIPING LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.
- THE MECHANICAL CONTRACTOR SHALL INSTALL FIRE DAMPERS WITH ACCESS DOORS IN ALL DUCTS PENETRATING FIRE RATED WALLS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL VOLUME DAMPERS IN DUCTWORK AS REQUIRED TO BALANCE THE AIRFLOW AT ALL REGISTERS AND DIFFUSERS TO THE CFM'S INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- ACOUSTICALLY LINE ALL DUCTWORK 20'-0" DOWNSTREAM OF DOAS(S), ACOUSTIC LINING SHALL BE 1" THICK.
- DUCT-MOUNTED SMOKE DETECTORS AND SAMPLING TUBES SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL EACH SAMPLING TUBE IN THE DUCTWORK. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE EACH SMOKE DETECTOR. THE MECHANICAL CONTRACTOR SHALL NOT BRANCH OFF ANY DUCT REQUIRING A DUCT SMOKE DETECTOR BEFORE THE DUCT SMOKE DETECTOR. LOCATE SMOKE DETECTORS IN SERVICEABLE AREAS, NOT IN SHAFTS.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE MECHANICAL CONTRACTOR FOR HVAC EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- DUCT DIMENSIONS SHOWN ON MECHANICAL DRAWINGS REFER TO INSIDE CLEAR DUCT DIMENSIONS. WHERE DUCTWORK IS LINED, THE MECHANICAL CONTRACTOR SHALL INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.
- LOCATE THERMOSTATS AND TEMPERATURE SENSORS 5'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS, ETC. FURNISH LOCKING TAMPERPROOF COVER FOR ALL NEW THERMOSTATS IN PUBLIC AREAS.
- COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, SMOKE DETECTORS, AND THE ARCHITECTURAL PLANS.
- THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, DIFFUSERS, GRILLES, ETC.
- ALL WORK SHALL COMPLY WITH STATE BUILDING CODE, LOCAL BUILDING CODE, ENERGY CODE, AND SED REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS. FLOOR REGISTERS AND GRILLES SHALL ALSO BE COVERED WITH 1/8" MASONITE.
- WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH NEW.
- THE OWNER'S PERMANENT HVAC EQUIPMENT (NEW AND EXISTING) SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, OR VENTILATION. IF TEMPORARY HEATING, COOLING, OR VENTILATION IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.
- WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF MECHANICAL WORK, INCLUDING THE INSTALLATION OF HANGERS FOR PIPING, DUCTWORK, OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, ACCESS PANELS, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF HVAC DUCTWORK, CONTROL CONDUITS, AND PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE MECHANICAL WORK.
- ALL ROOF WORK ASSOCIATED WITH PENETRATIONS FOR NEW DUCTWORK AND REFRIGERANT PIPING & CONTROL WIRING SHALL BE MADE BY THE BONDED ROOF CONTRACTOR.
- REPLACE FILTERS FOR ALL RTU(S), DOAS(S) AND INDOOR VRF UNITS AFTER CONSTRUCTION IS COMPLETE.
- ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.

COMMISSIONING NOTES

- REFER TO SPECIFICATION SECTION 230800. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A 3RD PARTY COMMISSIONING AGENT.
- PRIOR TO COMMISSIONING, THE CONTRACTOR SHALL PROVIDE A STATEMENT CONFIRMING THAT ALL SYSTEMS ARE FULLY OPERATIONAL AND ALL PRE-FUNCTIONAL TESTS AND CHECKS LISTED BELOW HAVE BEEN SUCCESSFULLY COMPLETED. SUBMIT A COPY OF ALL CHECK SHEETS FOR ENGINEER REVIEW AND APPROVAL.
- PRE-FUNCTIONAL TESTS AND CHECKS (PREREQUISITES FOR COMMISSIONING):
 - THE CONTRACTOR SHALL PERFORM THE FOLLOWING AT A MINIMUM -
 - ENSURE THAT ALL SUBMITTALS ARE COMPLETED AND APPROVED BY ENGINEER AND COMMISSIONING AGENT.
 - CERTIFY THAT ALL SYSTEMS TO BE COMMISSIONED, SUBSYSTEMS AND EQUIPMENT HAVE BEEN INSTALLED, CALIBRATED AND STARTED; ACCORDING TO THE CONTRACT DOCUMENTS COMPLETE. ALL MANUFACTURER STARTUP REQUIREMENTS.
 - CERTIFY THAT ALL RELEVANT INSTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN COMPLETED AND CALIBRATED; ARE OPERATING ACCORDING TO CONTRACT DOCUMENTS; AND THAT PRETEST SET POINTS HAVE BEEN RECORDED.
 - CERTIFY THAT TESTING, ADJUSTING AND BALANCING (TAB) PROCEDURES HAVE BEEN COMPLETED AND THE TAB REPORT HAS BEEN SUBMITTED, DISCREPANCIES CORRECTED AND CORRECTIVE WORK APPROVED BY THE ENGINEER.
 - SET SYSTEMS, SUBSYSTEMS AND EQUIPMENT TO OPERATING MODE TO BE TESTED (E.G., NORMAL SHUT DOWN, NORMAL AUTO POSITION, NORMAL MANUAL POSITION, AND ALARM CONDITIONS).
 - VERIFY EACH OF THE SYSTEMS ONCE IT IS OPERATING IN A STEADY STATE CONDITION. REFER TO THE SEQUENCE OF OPERATIONS.
 - INSPECT AND VERIFY THE POSITION OF EACH DEVICE AND INTERLOCK IDENTIFIED ON CHECKLISTS. SIGN OFF EACH ITEM AS ACCEPTABLE OR FAILED. REPEAT THIS TEST FOR EACH OPERATING CYCLE THAT APPLIES TO SYSTEM BEING TESTED.
 - SIMULATE CONDITIONS REQUIRED IN ORDER TO TEST ALL SAFETY CUTOUTS, ALARMS AND INTERLOCKS WITH LIFE SAFETY SYSTEMS DURING EACH MODE OF OPERATION WHEN APPLICABLE.
 - ANNOTATE CHECKLIST OR DATA SHEET WHEN A DEFICIENCY IS OBSERVED.
 - VERIFY EQUIPMENT INTERFACE WITH MONITORING AND CONTROL SYSTEM.
- AFTER PRE-FUNCTIONAL TESTING IS COMPLETE, THE CONTRACTOR SHALL PERFORM FUNCTIONAL TESTING IN THE PRESENCE OF THE COMMISSIONING AGENT FOR THE SYSTEMS LISTED BELOW IN ACCORDANCE WITH THE COMMISSIONING SPECIFICATIONS.
 - DOAS UNITS
 - CONDENSING UNITS
 - VRF SYSTEMS
 - CONTROL DAMPERS AND CONTROL VALVES
 - AUTOMATIC CONTROLS
- AFTER FUNCTIONAL TESTING, THE COMMISSIONING AGENT (CX) SHALL ISSUE A REPORT OF TEST RESULTS AND DOCUMENT ANY DEFICIENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ALL DEFICIENCIES. THE CONTRACTOR SHALL SEND A WRITTEN RESPONSE TO THE OWNER/ENGINEER/CX AGENT THAT AN OPEN ISSUE HAS BEEN RECTIFIED. THE DEFICIENCY SHALL NOT BE CONSIDERED RESOLVED UNTIL THE APPROPRIATE RETESTING IS PERFORMED WITH THE CX AGENT.
- PRIOR TO TURNOVER (OWNER ACCEPTANCE), A COMPLETE AND SUCCESSFUL DEMONSTRATION OF ALL SYSTEM OPERATING FUNCTIONS AND ALARMS SHALL BE PERFORMED BY THIS CONTRACTOR IN THE PRESENCE OF THE OWNERS REPRESENTATIVE AND COMMISSIONING AGENT.
- IN ADDITION TO THE ABOVE, THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:
 - PARTICIPATE IN MAINTENANCE ORIENTATION AND INSPECTION MEETING.
 - PARTICIPATE IN PROCEDURES MEETING FOR TESTING.
 - EXECUTE INSTALLATION PRE-FUNCTIONAL CHECK SHEETS.
 - SUPPORT FUNCTIONAL TESTING WITH QUALIFIED TECHNICIANS.
 - RESPOND TO CX DEFICIENCIES IN ACCORDANCE WITH OWNER SCHEDULE.
 - PARTICIPATE IN FINAL REVIEW AT ACCEPTANCE MEETING.
 - NOTIFY COMMISSIONING AGENT AT MINIMUM TWO WEEKS IN ADVANCE OF ANY TESTING.

TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS
TUCKAHOE UNION FREE SCHOOL DISTRICT
65 SIWANOWY BLD
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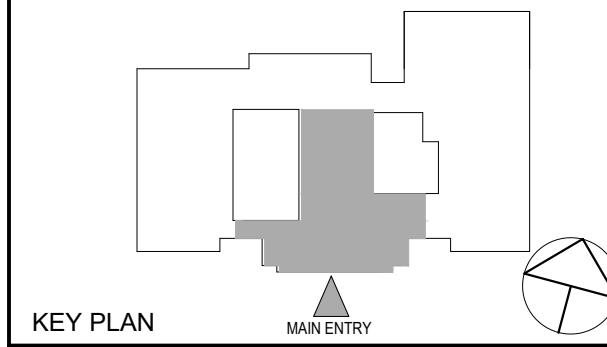
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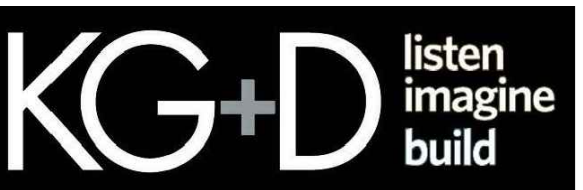
MECHANICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES

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TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS

TUCKAHOE UNION FREE
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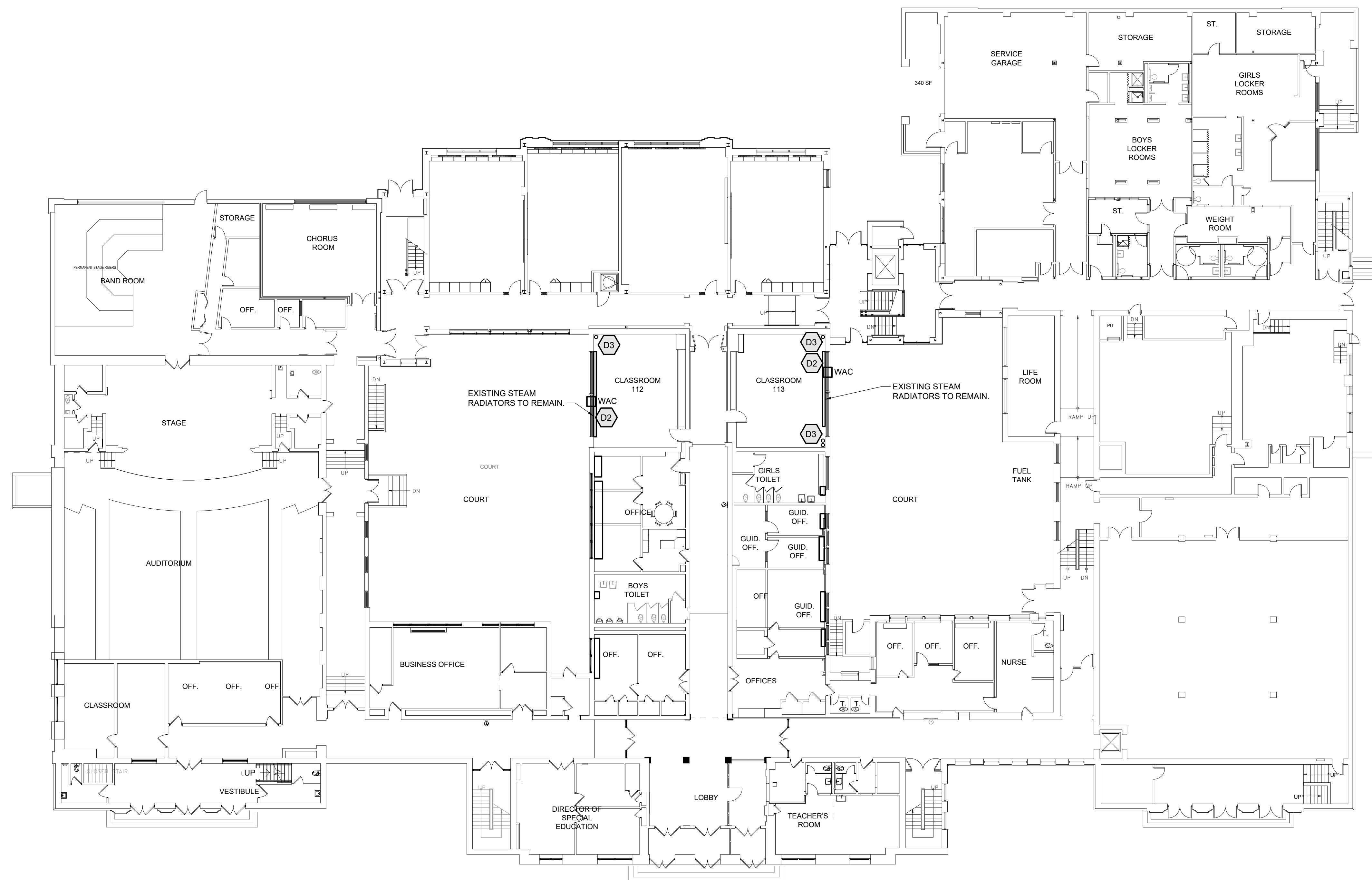


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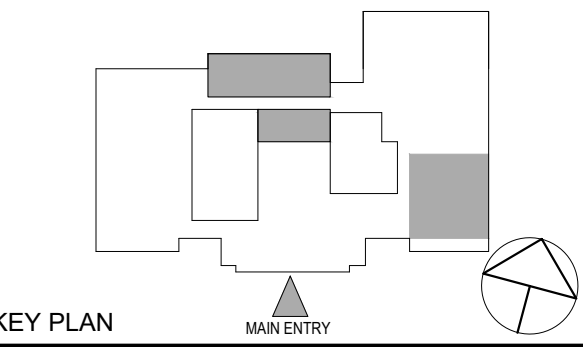
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CONSTRUCTION DOCUMENTS



1 MECHANICAL DEMOLITION 1ST FLOOR PLAN
SCALE: 1/16" = 1'-0"
NORTH



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**MECHANICAL
1ST FLOOR
DEMOLITION**

MECHANICAL DEMOLITION NOTES

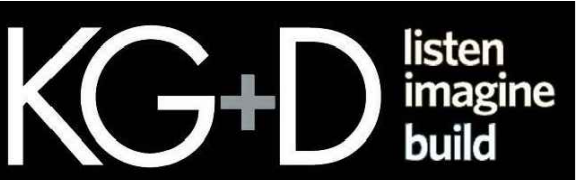
- D1** DEMOLISH EXISTING DUCTWORK, DUCTWORK INSULATION, AND ASSOCIATED AIR OUTLETS COMPLETE.
- D2** DEMOLISH EXISTING WINDOW AIR UNIT (WAC) AND ALL ASSOCIATED POWER WIRING, WINDOW PANELS & SUPPORTS COMPLETE.
- D3** DEMOLISH EXISTING EXPOSED HOT WATER / STEAM PIPING INSULATION AND REPLACE WITH NEW PIPING INSULATION FROM FLOOR TO CEILING. NEW INSULATION SHALL BE JACKETED (REFER TO SPECIFICATIONS). COLOR SHALL BE COORDINATED WITH ARCHITECT.

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**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**

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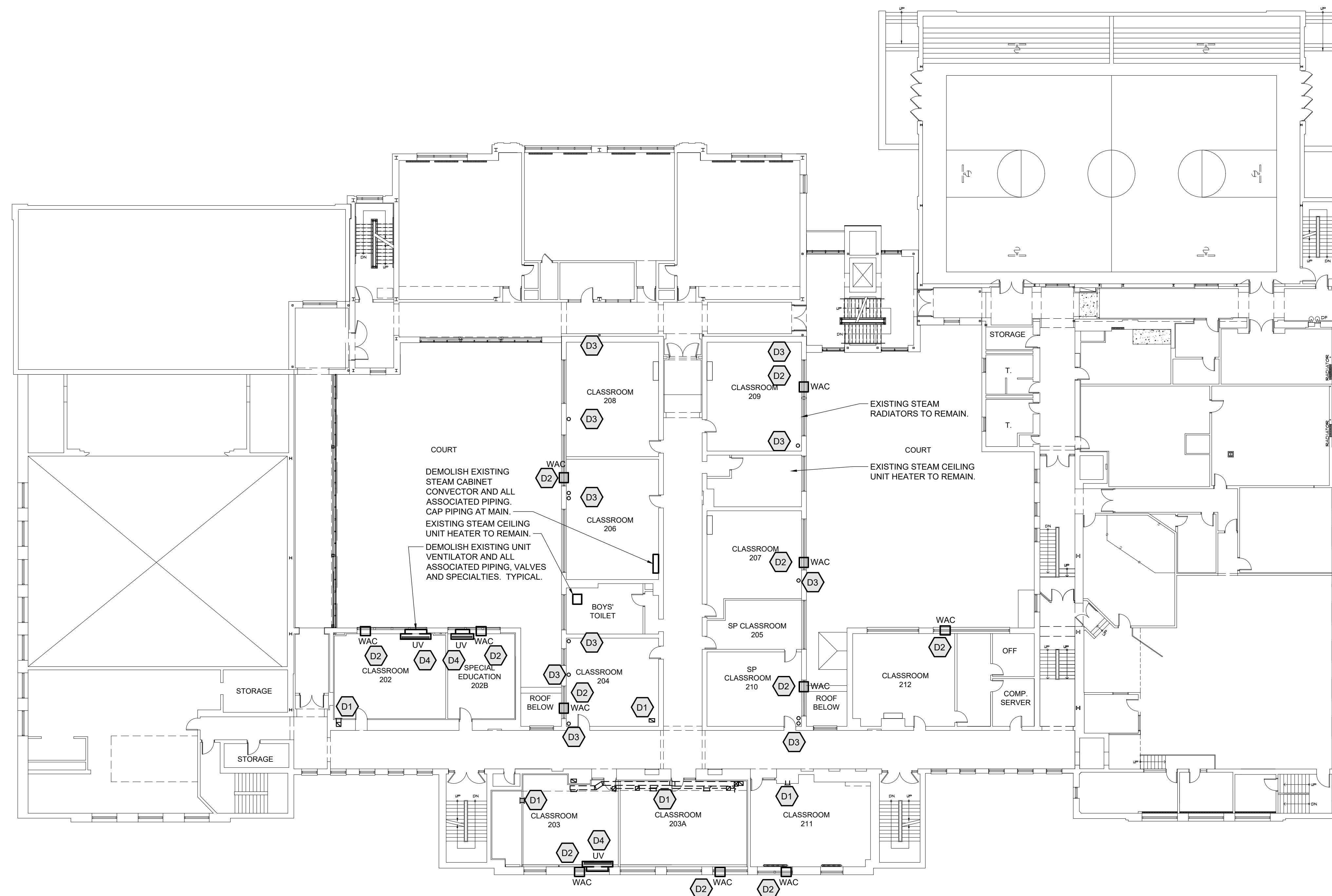


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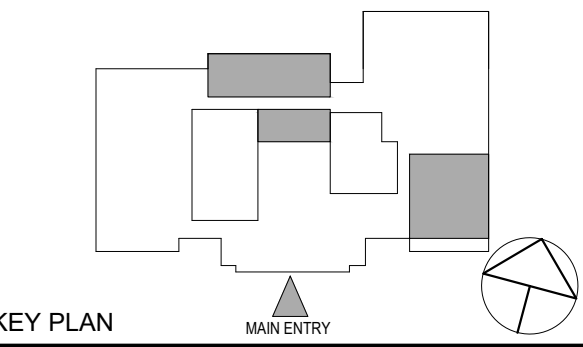
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CONSTRUCTION DOCUMENTS



1 MECHANICAL DEMOLITION 2ND FLOOR PLAN
SCALE: 1/16" = 1'-0"
NORTH



KEY PLAN

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MECHANICAL DEMOLITION NOTES

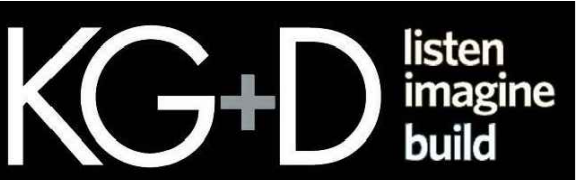
- D1** DEMOLISH EXISTING DUCTWORK, DUCTWORK INSULATION, AND ASSOCIATED AIR OUTLETS COMPLETE. FIELD VERIFY EXTENT OF DUCTWORK AND DEMOLISH THE ENTIRE SYSTEM UP THROUGH THE ROOF INCLUDING ROOF EQUIPMENT. PATCH AND FINISH WALLS OR CEILINGS OR FLOORS TO MATCH EXISTING, COORDINATE WITH ARCHITECTURAL PLANS.
- D2** DEMOLISH EXISTING WINDOW AC UNIT (WAC) AND ALL ASSOCIATED POWER WIRING, WINDOW PANELS & SUPPORTS COMPLETE.
- D3** DEMOLISH EXISTING EXPOSED HOT WATER / STEAM PIPING INSULATION AND REPLACE WITH NEW PIPING INSULATION FROM FLOOR TO CEILING. NEW INSULATION SHALL BE JACKETED (REFER TO SPECIFICATIONS). COLOR SHALL BE COORDINATED WITH ARCHITECT.
- D4** DEMOLISH EXISTING UNIT VENTILATOR AND ALL ASSOCIATED PIPING, PIPE SPECIALTIES, POWER WIRING, CONDUITS, CONTROLS & SUPPORTS COMPLETE. EXTEND STEAM PIPING TO NEW CONNECTOR. REFER TO NEW WORK PLANS.

Job No.	12/04/2023
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AS NOTED	NW / RS
Sheet Number	M102

**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709



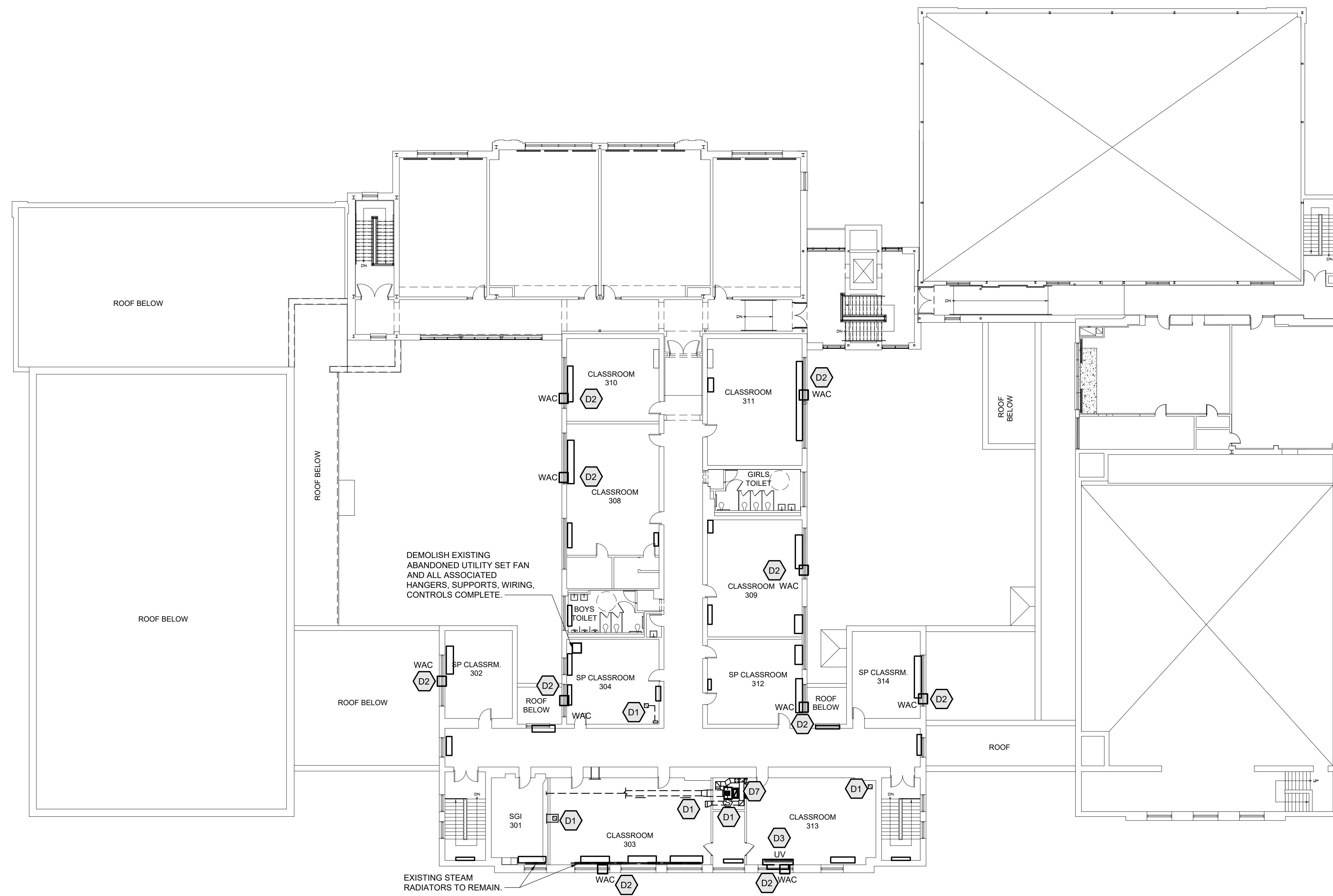
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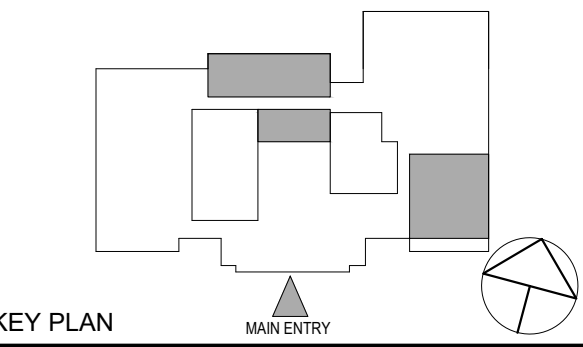


NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



1 MECHANICAL DEMOLITION 3RD FLOOR PLAN
SCALE: 1/16" = 1'-0"
NORTH



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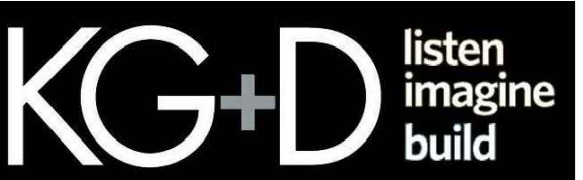


MECHANICAL DEMOLITION NOTES	
D1	DEMOLISH EXISTING DUCTWORK, DUCTWORK INSULATION, AND ASSOCIATED AIR OUTLETS COMPLETE. FIELD VERIFY EXTENT OF DUCTWORK AND DEMOLISH THE ENTIRE SYSTEM UP THROUGH THE ROOF INCLUDING ROOF EQUIPMENT. PATCH AND FINISH WALLS OR CEILINGS OR FLOORS TO MATCH EXISTING. COORDINATE WITH ARCHITECTURAL PLANS.
D2	DEMOLISH EXISTING WINDOW AC UNIT (WAC) AND ALL ASSOCIATED POWER WIRING, WINDOW PANELS & SUPPORTS COMPLETE.
D3	DEMOLISH EXISTING UNIT VENTILATOR AND ALL ASSOCIATED PIPING, PIPE SPECIALTIES, POWER WIRING, CONDUITS, CONTROLS & SUPPORTS COMPLETE. EXTEND STEAM PIPING TO NEW CONVECTOR. REFER TO NEW WORK PLANS.

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No. 1	Date
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MECHANICAL 3RD FLOOR DEMOLITION	
Job No.	Date
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Sheet Number	
M103	

TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS
TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709

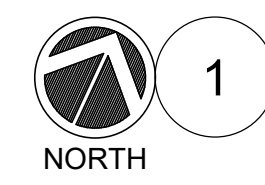


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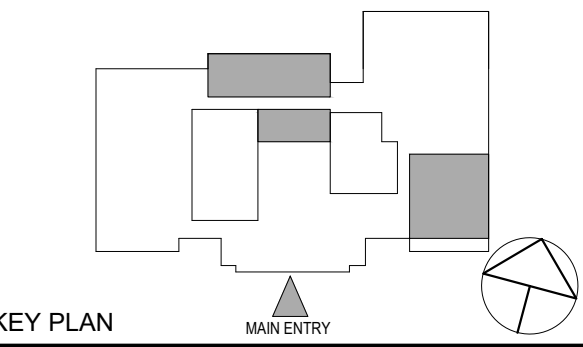
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CONSTRUCTION DOCUMENTS



1 MECHANICAL DEMOLITION ROOF PLAN
SCALE: 1/16" = 1'-0"

ABBREVIATIONS:
CU - CONDENSING UNIT
EF - EXHAUST FAN
GI - GRAVITY INTAKE
PV - FLUMBING VENT
RD - ROOF DRAIN
RTU - PACKAGED ROOF TOP UNIT
SF - SPILL FAN
SP - SPILL OR RELIEF VENT



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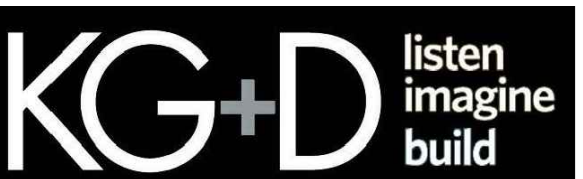
No.	Date	Issue
1	12/04/2023	ISSUED FOR BID

MECHANICAL DEMOLITION NOTES		MECHANICAL ROOF DEMOLITION	
<p>D1 DEMOLISH EXISTING ROOF EQUIPMENT AND ALL ASSOCIATED DUCTWORK DOWN THROUGH ROOF. DEMOLISH ALL WIRING, CONTROLS AND CURBS COMPLETE. PATCH ROOF TO MATCH EXISTING, COORDINATE WITH ARCHITECTURAL PLANS FOR ALL ROOF WORK. COORDINATE WITH NEW WORK PLANS FOR EXTENT OF DEMOLITION.</p>		Job No.	Date
		NKGD0239.00	12/04/2023
		Scale	Drawn / Checked
		AS NOTED	NW / RS
		Sheet Number	M104

**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709

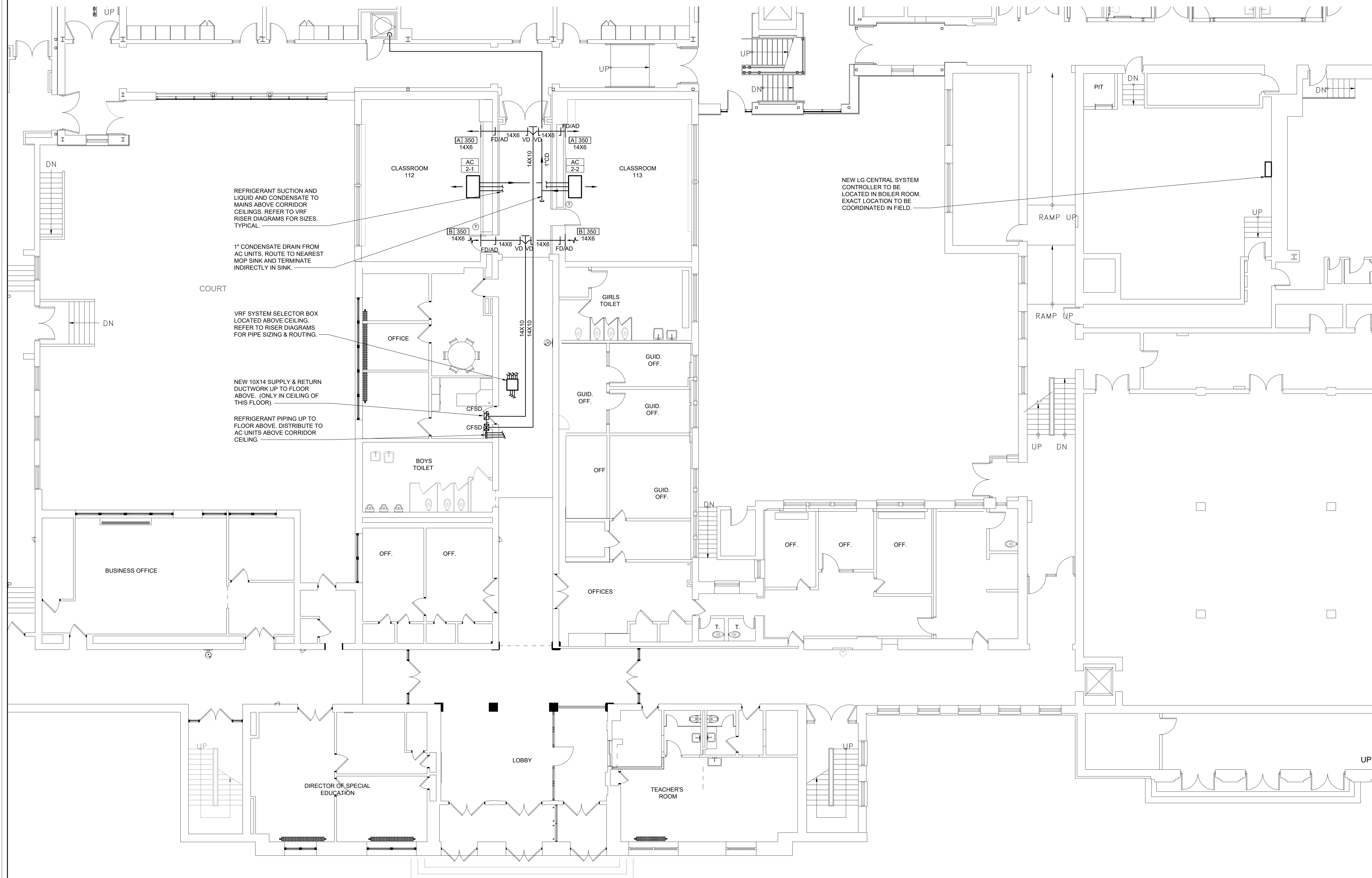


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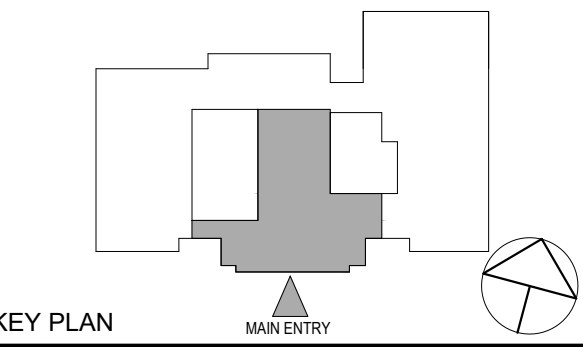
NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



- NOTES:
1. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
 2. ALL EXPOSED REFRIGERANT AND CONDENSATE PIPING SHALL BE COVERED WITH WHITE PVC JACKET ACCORDING TO SPECIFICATIONS. REFRIGERANT PIPING NOT SHOWN FOR CLARITY.

1 MECHANICAL NEW WORK 1ST FLOOR PART PLAN
SCALE: 1/8" = 1'-0"



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MECHANICAL
1ST FLOOR
NEW WORK

Job No. NKGD0239.00 Date 12/04/2023

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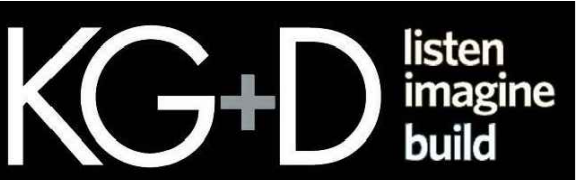
Sheet Number

M201

TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709

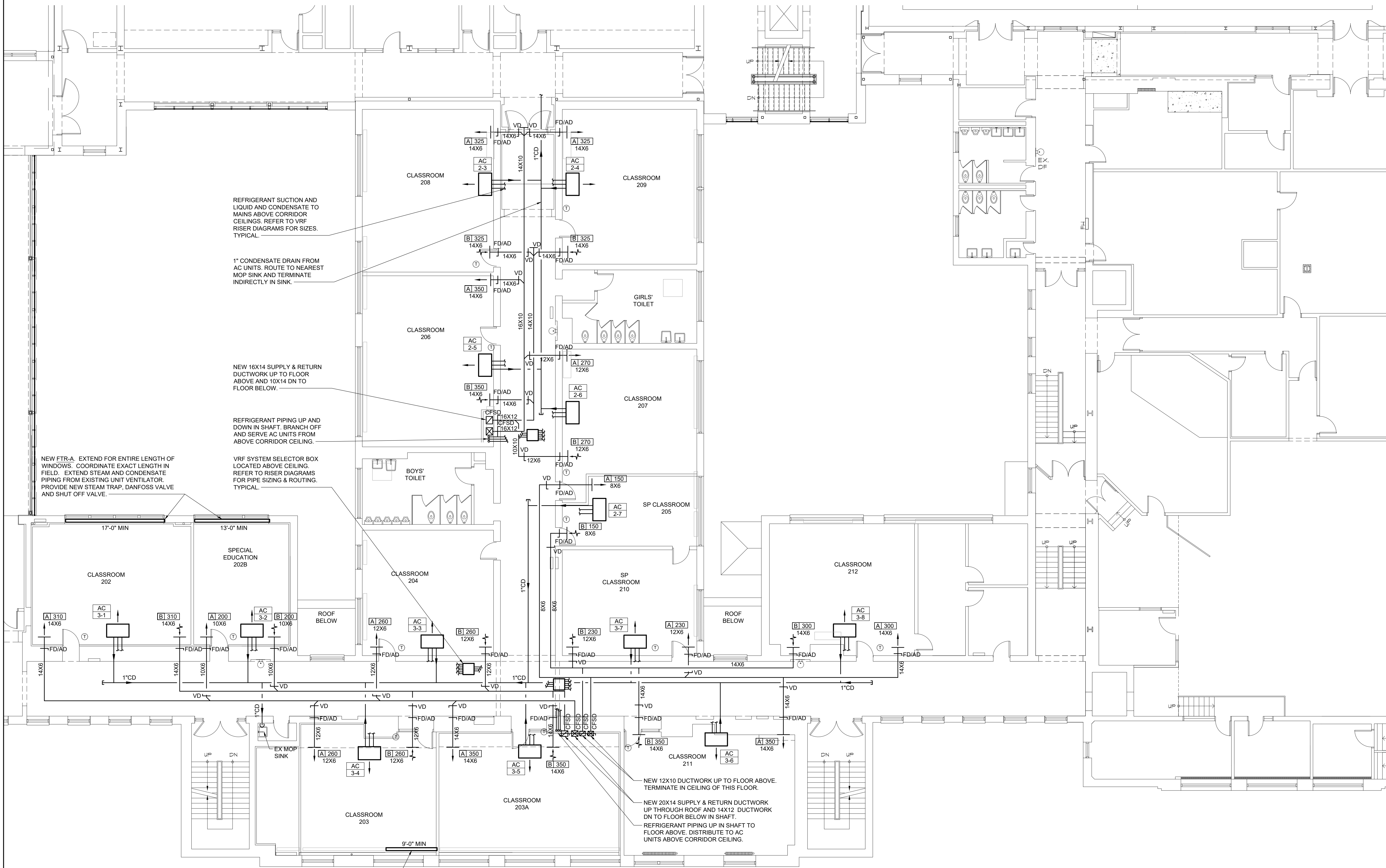


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66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



REFRIGERANT SUCTION AND LIQUID AND CONDENSATE TO MAINS ABOVE CORRIDOR CEILINGS. REFER TO VRF RISER DIAGRAMS FOR SIZES. TYPICAL.

1" CONDENSATE DRAIN FROM AC UNITS. ROUTE TO NEAREST MOP SINK AND TERMINATE INDIRECTLY IN SINK.

NEW 16X14 SUPPLY & RETURN DUCTWORK UP TO FLOOR ABOVE AND 10X14 DN TO FLOOR BELOW.

REFRIGERANT PIPING UP AND DOWN IN SHAFT. BRANCH OFF AND SERVE AC UNITS FROM ABOVE CORRIDOR CEILING.

NEW FTR-A. EXTEND FOR ENTIRE LENGTH OF WINDOWS. COORDINATE EXACT LENGTH IN FIELD. EXTEND STEAM AND CONDENSATE PIPING FROM EXISTING UNIT VENTILATOR. PROVIDE NEW STEAM TRAP, DANFOSS VALVE AND SHUT OFF VALVE.

VRF SYSTEM SELECTOR BOX LOCATED ABOVE CEILING. REFER TO RISER DIAGRAMS FOR PIPE SIZING & ROUTING. TYPICAL.

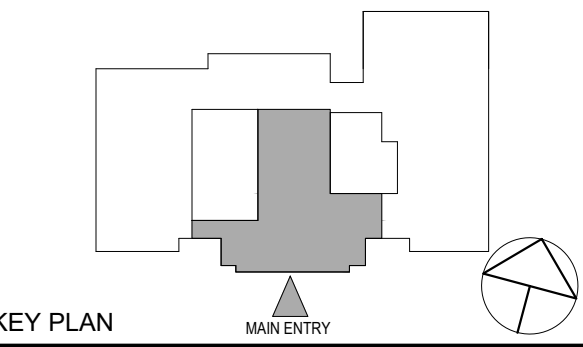
NEW 12X10 DUCTWORK UP TO FLOOR ABOVE. TERMINATE IN CEILING OF THIS FLOOR.

NEW 20X14 SUPPLY & RETURN DUCTWORK UP THROUGH ROOF AND 14X12 DUCTWORK DN TO FLOOR BELOW IN SHAFT.

REFRIGERANT PIPING UP IN SHAFT TO FLOOR ABOVE. DISTRIBUTE TO AC UNITS ABOVE CORRIDOR CEILING.

NEW FTR-A. EXTEND FROM EXISTING FIN TUBE TO WALL. COORDINATE EXACT LENGTH IN FIELD. EXTEND STEAM AND CONDENSATE PIPING FROM EXISTING UNIT VENTILATOR. PROVIDE NEW STEAM TRAP, DANFOSS VALVE AND SHUT OFF VALVE.

- NOTES:
1. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
 2. ALL EXPOSED REFRIGERANT AND CONDENSATE PIPING SHALL BE COVERED WITH WHITE PVC JACKET ACCORDING TO SPECIFICATIONS. REFRIGERANT PIPING NOT SHOWN FOR CLARITY.



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1 12/04/2023 ISSUED FOR BID

No. 1 Date Issue

Sheet Title

MECHANICAL
2ND FLOOR
NEW WORK

Job No. NKGD0239.00 Date 12/04/2023

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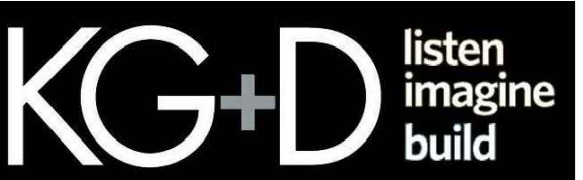
Sheet Number

M202

1 MECHANICAL NEW WORK 2ND FLOOR PART PLAN
SCALE: 1/8" = 1'-0"

TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS
TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709

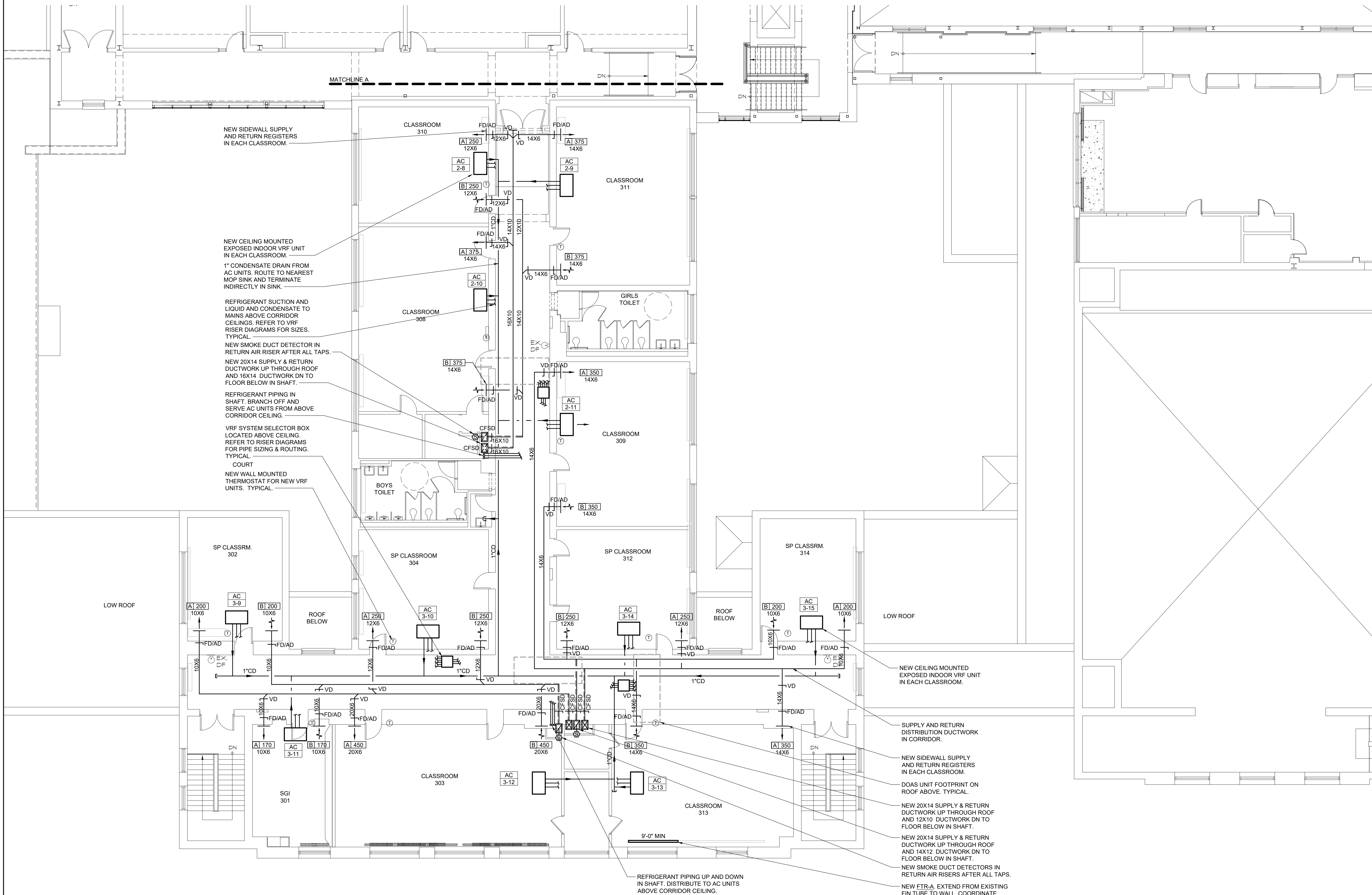


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New York, NY 10018
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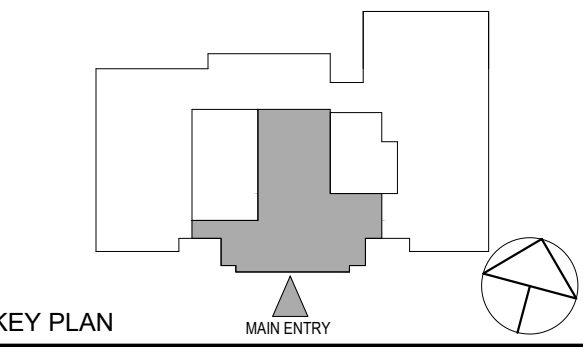
NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



- NOTES:
1. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
 2. ALL EXPOSED REFRIGERANT AND CONDENSATE PIPING SHALL BE COVERED WITH WHITE PVC JACKET ACCORDING TO SPECIFICATIONS. REFRIGERANT PIPING NOT SHOWN FOR CLARITY.

1 MECHANICAL NEW WORK 3RD FLOOR PART PLAN
SCALE: 1/8" = 1'-0"



KEY PLAN

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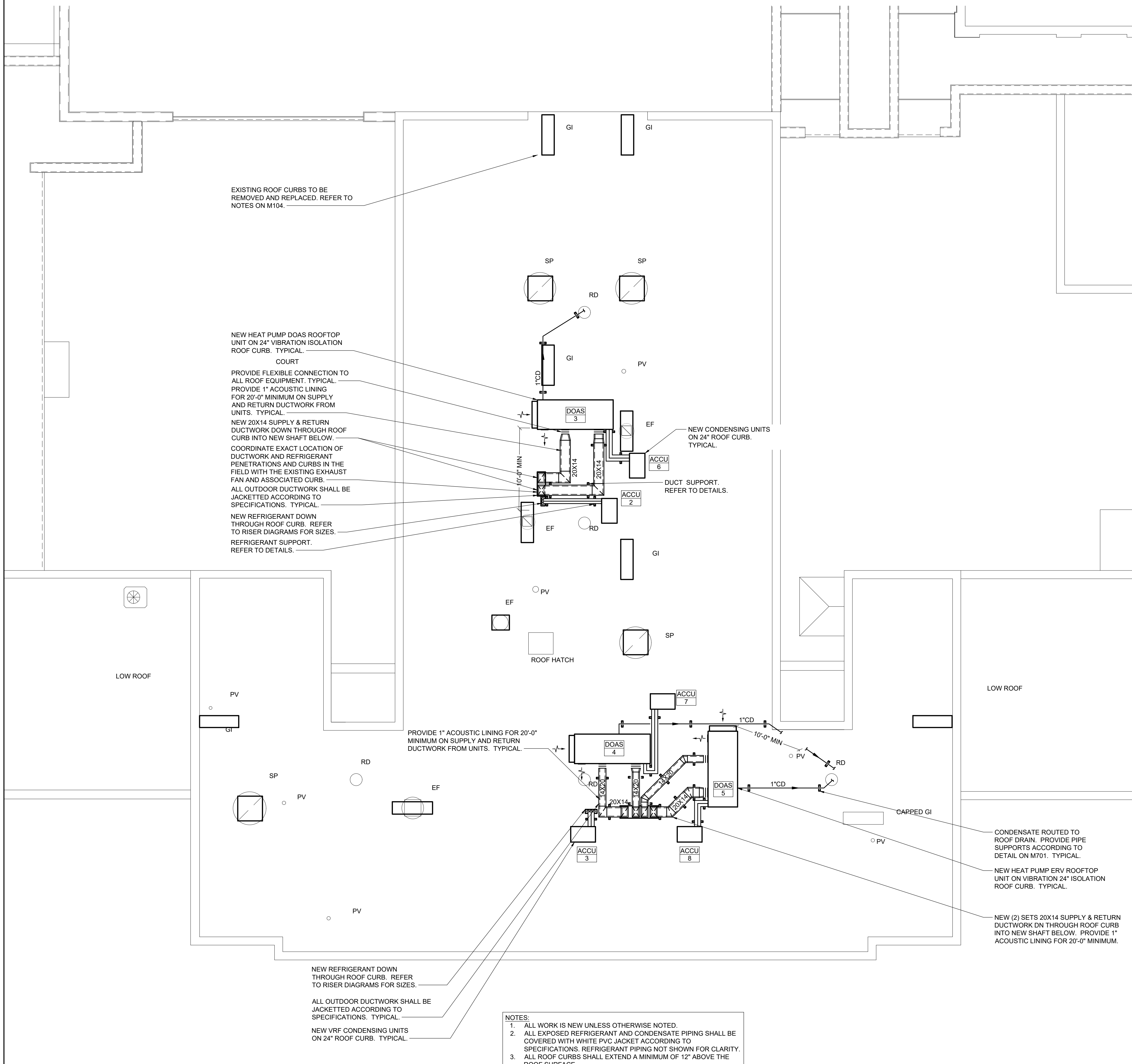
**MECHANICAL
3RD FLOOR
NEW WORK**

Job No. NKGD0239.00 Date 12/04/2023

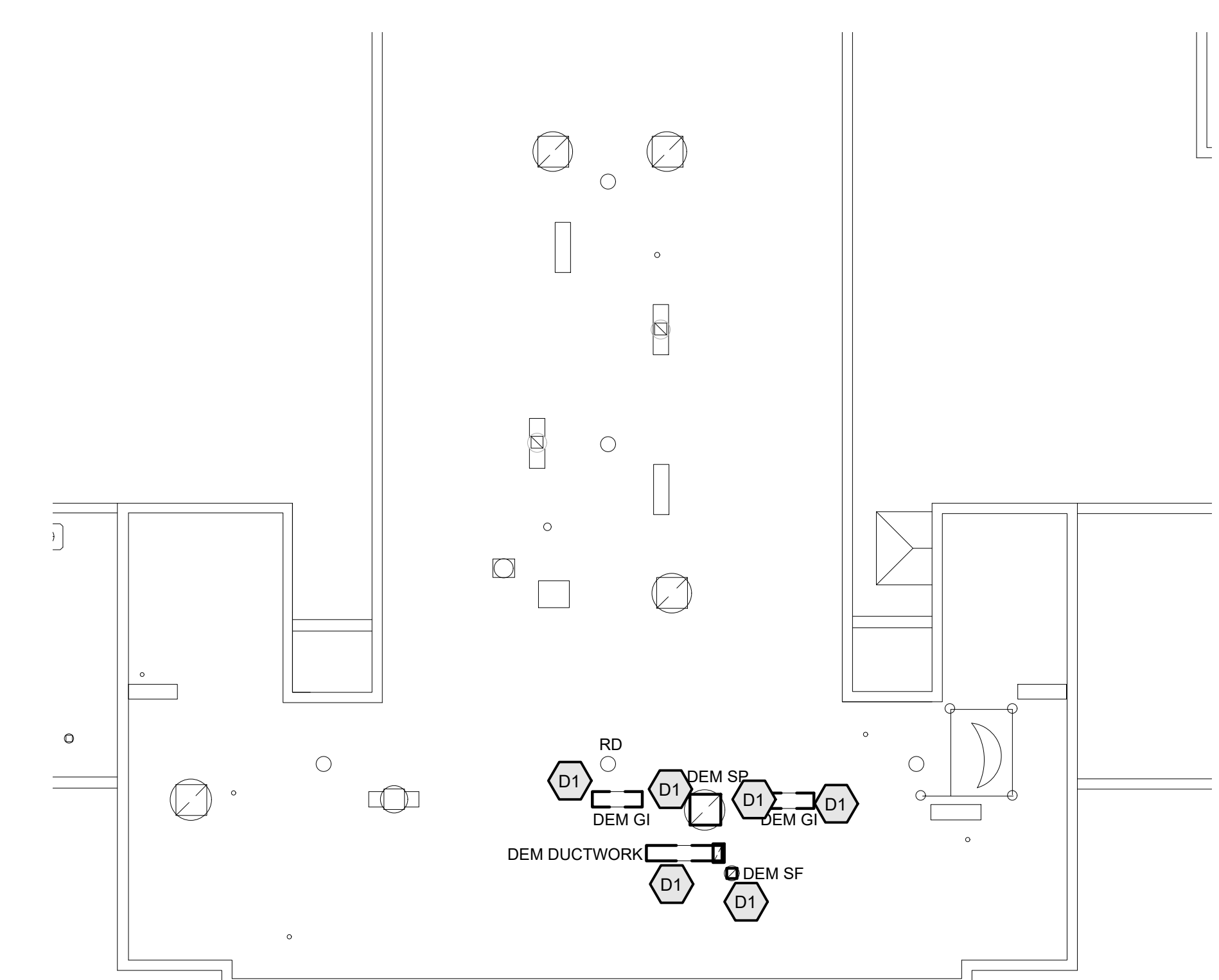
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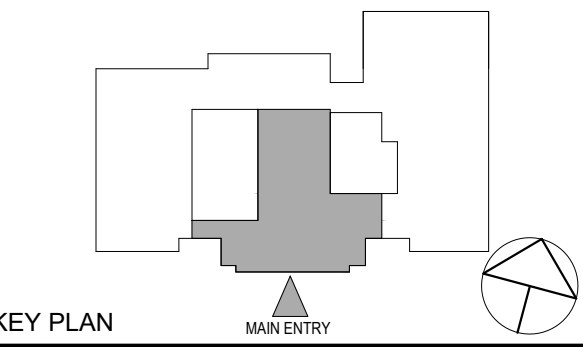
M203



2 MECHANICAL NEW WORK ROOF PART PLAN
SCALE: 1/8" = 1'-0"



1 MECHANICAL DEMOLITION ROOF PART PLAN
SCALE: 1/8" = 1'-0"



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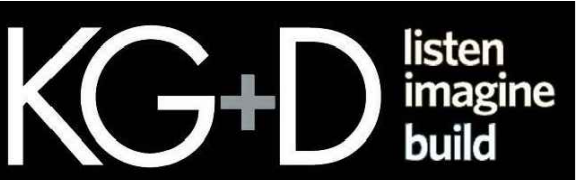
**MECHANICAL
ROOF NEW
WORK**

Job No.	NKGD0239.00	Date	12/04/2023
Scale	AS NOTED	Drawn / Checked	NW / RS
Sheet Number	M204		

TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709

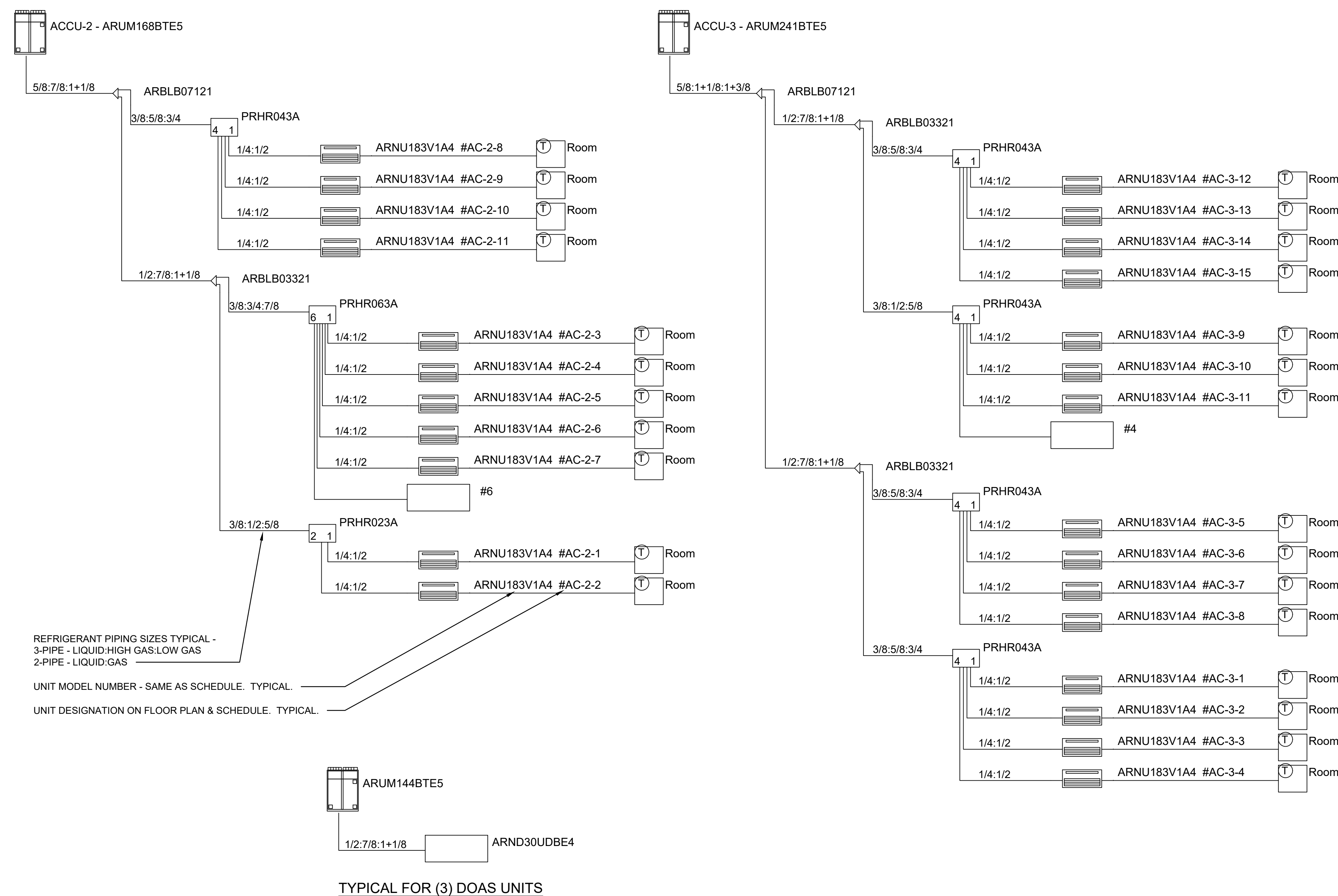


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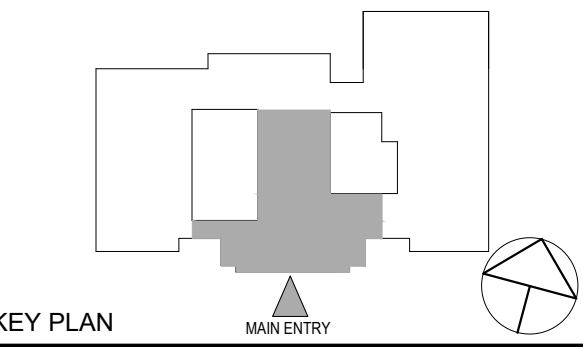
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66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



NOTES:
1. CONTRACTOR SHALL FIELD MEASURE AND DEVELOP FULL VRF SYSTEM PIPING DIAGRAMS OF EACH OF THE SYSTEMS ABOVE INCLUDING LENGTHS WITH VENDOR FOR ENGINEER REVIEW.



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8	06/16/2022	CONFORMED CD SET
2	04/19/2022	BID ADDENDUM #1
1	12/04/2023	ISSUED FOR BID

No. 1 Date Issue

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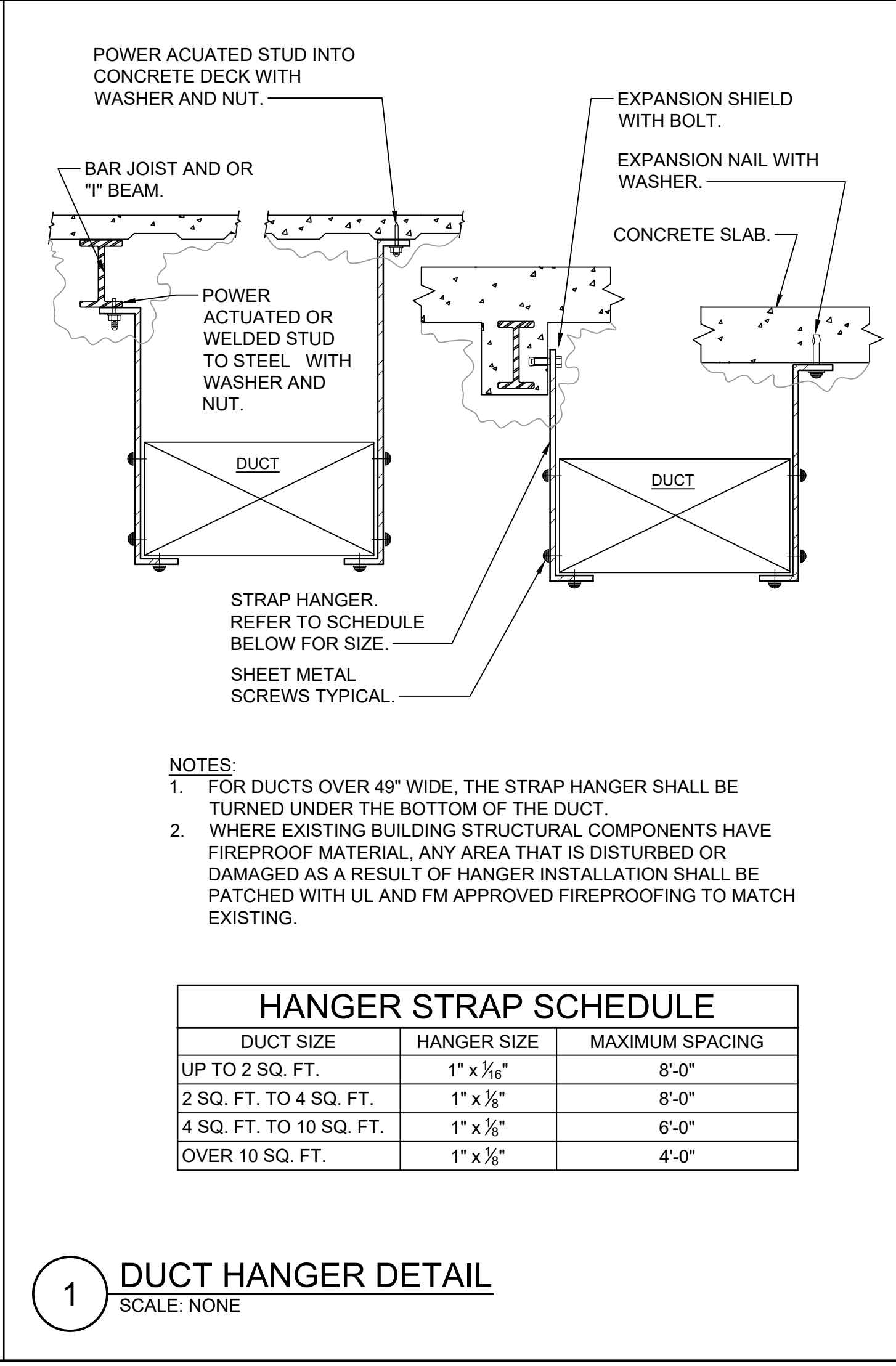
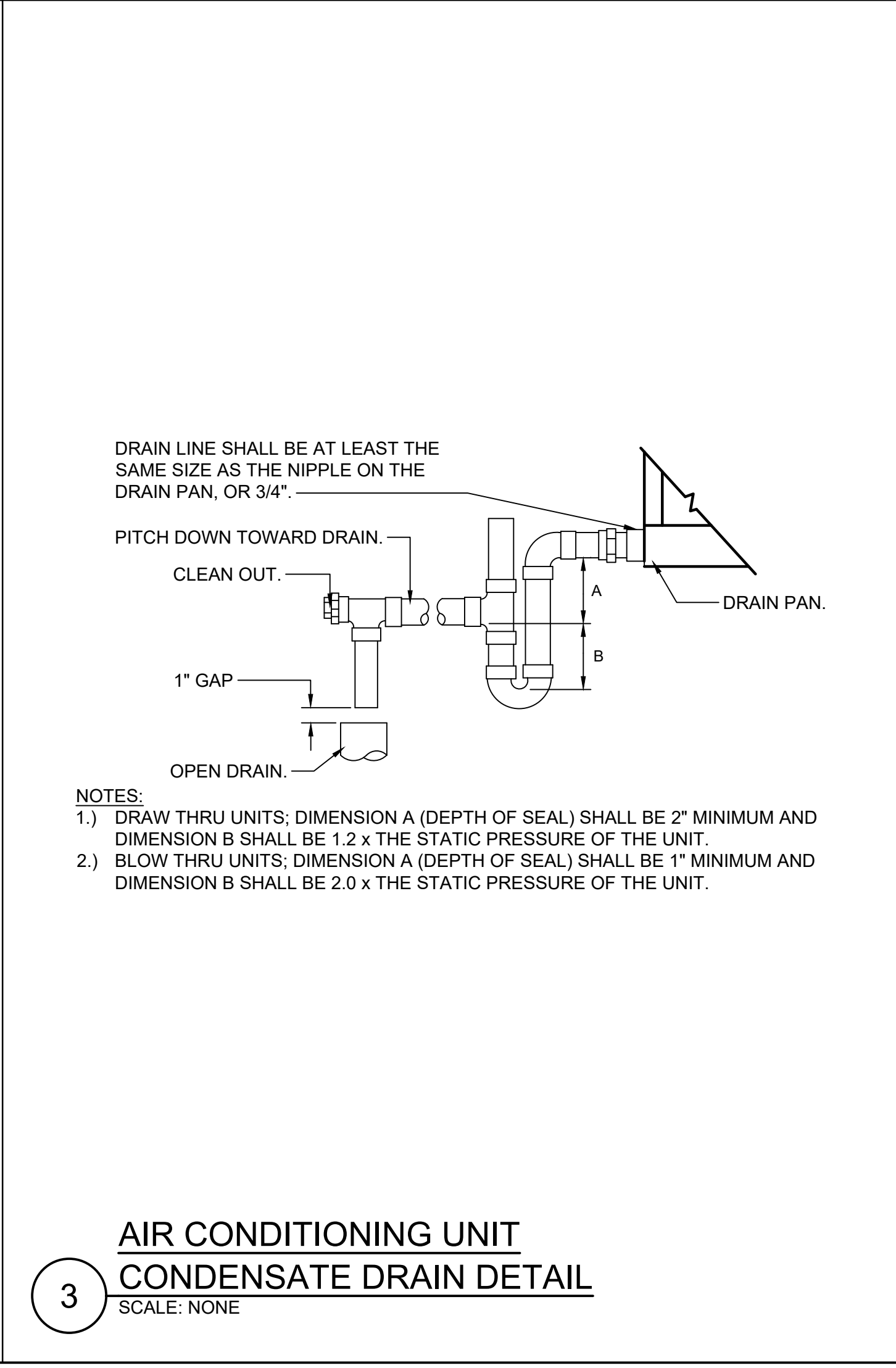
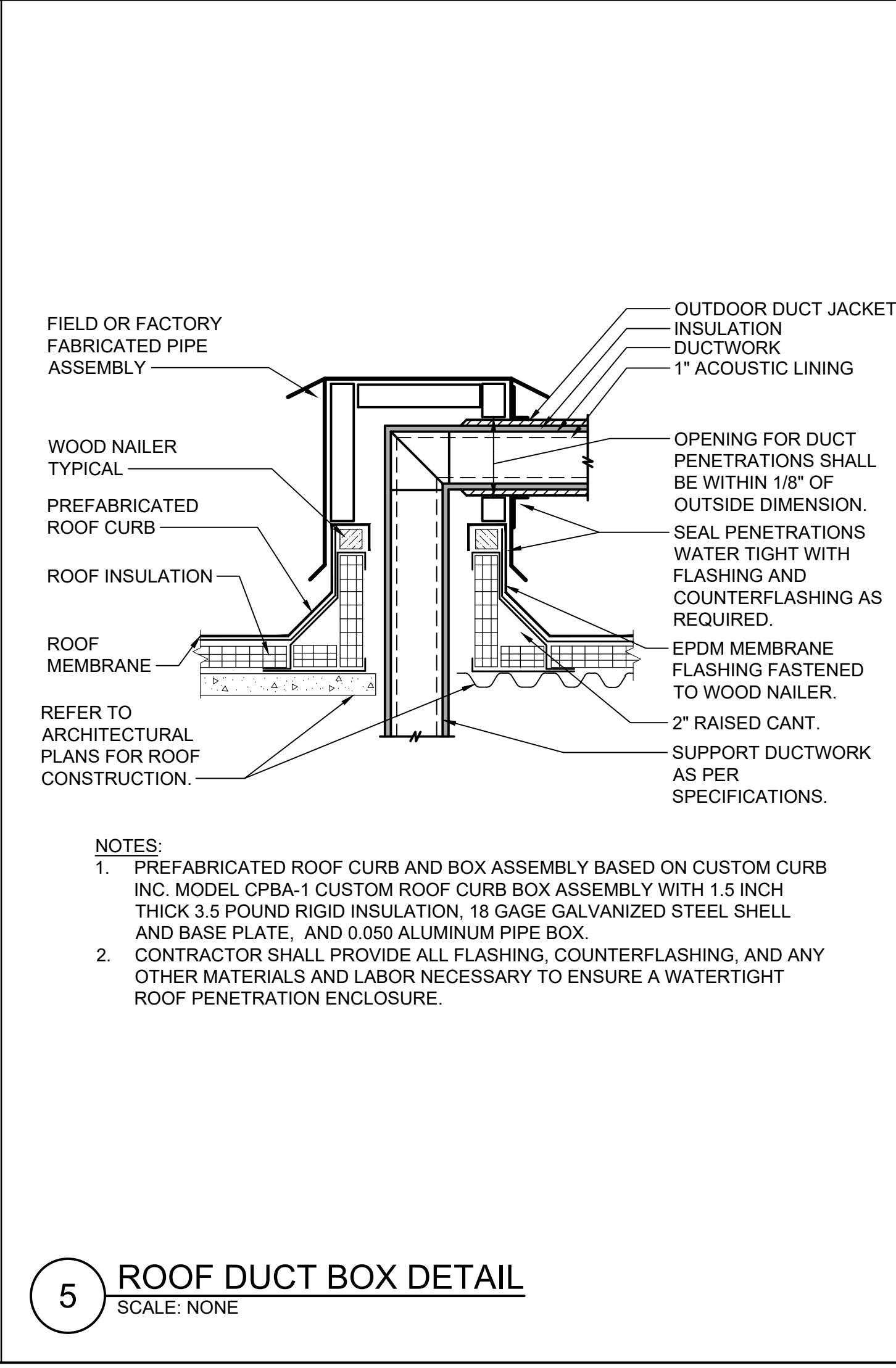
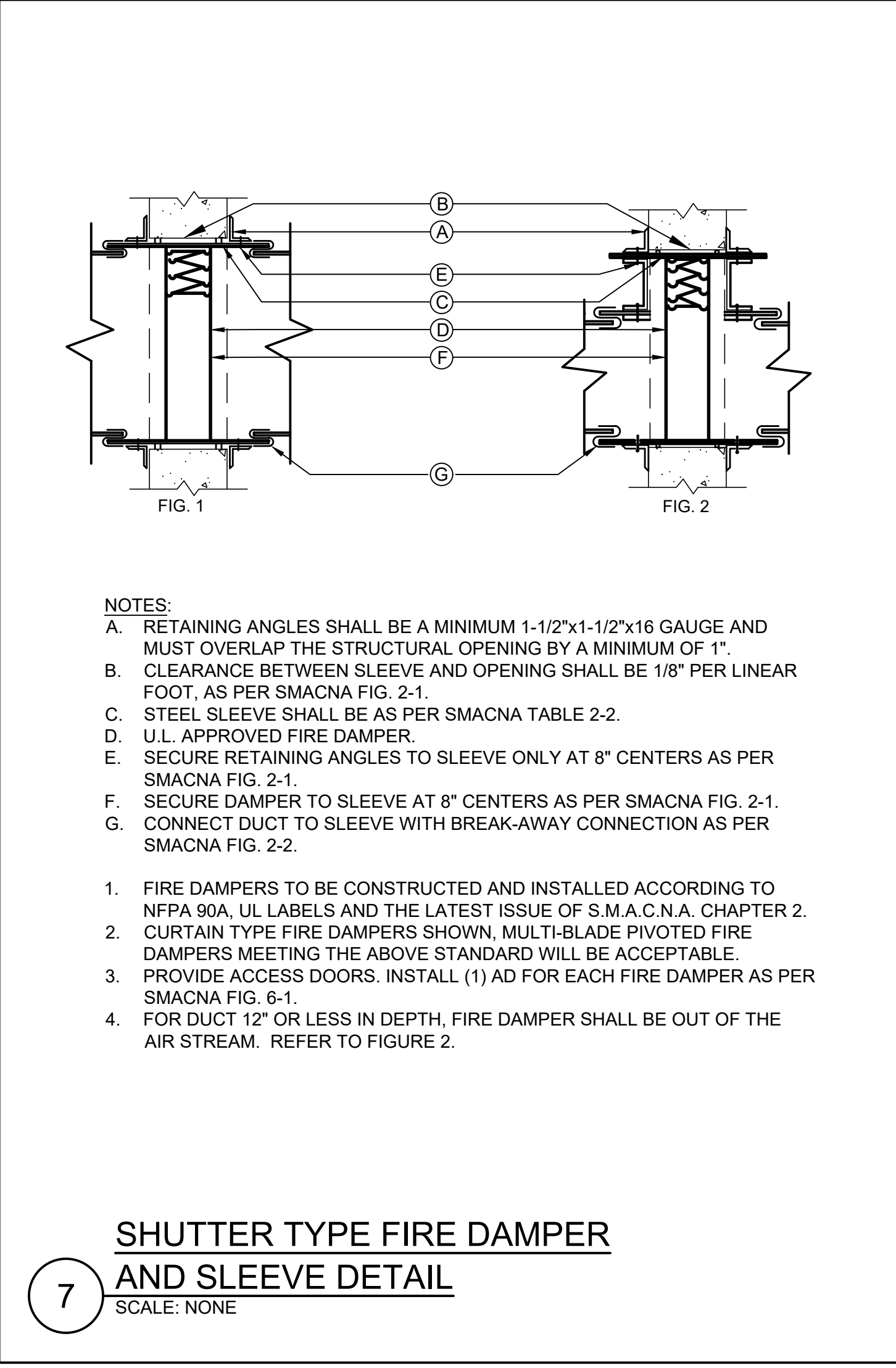
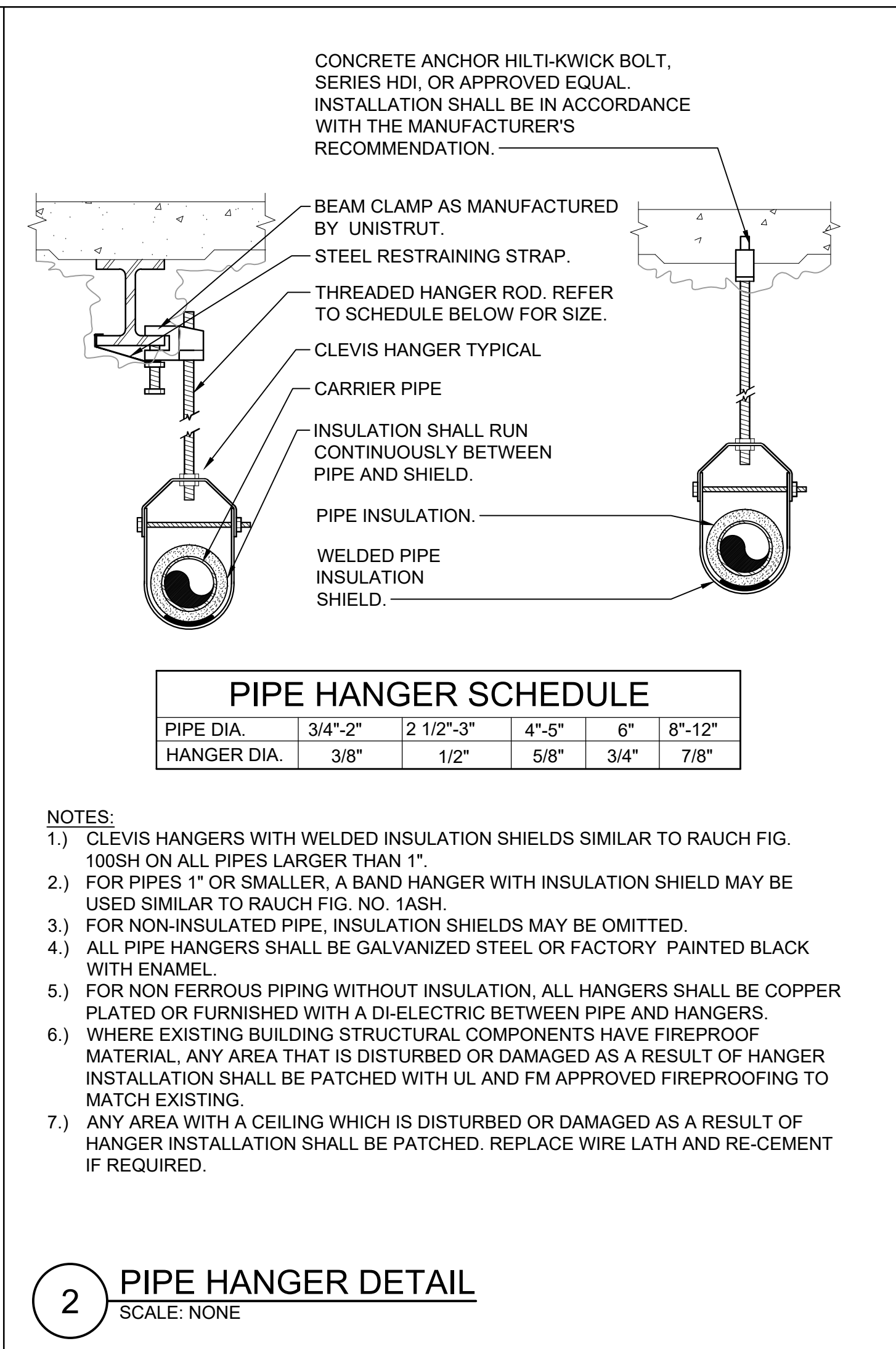
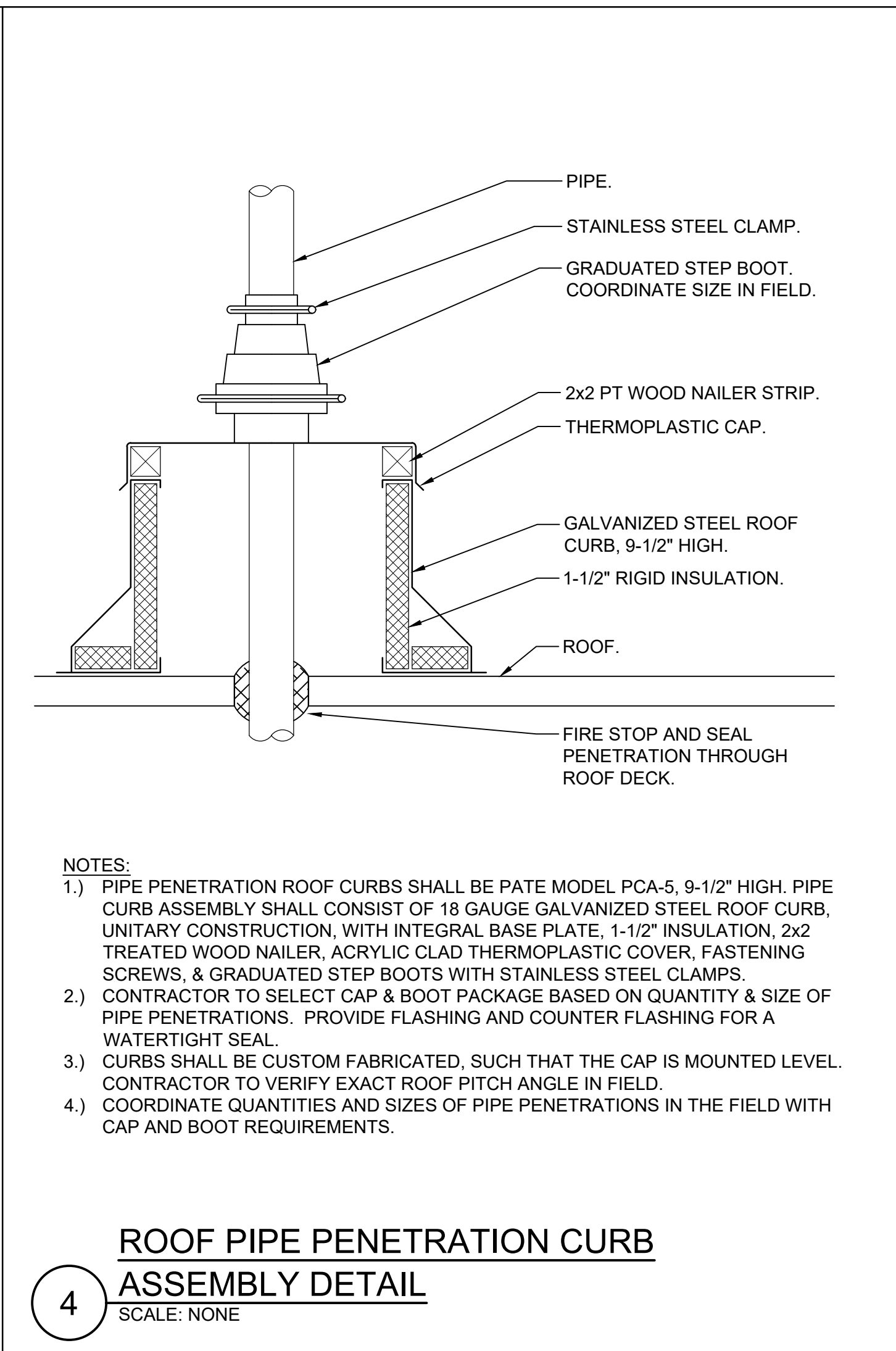
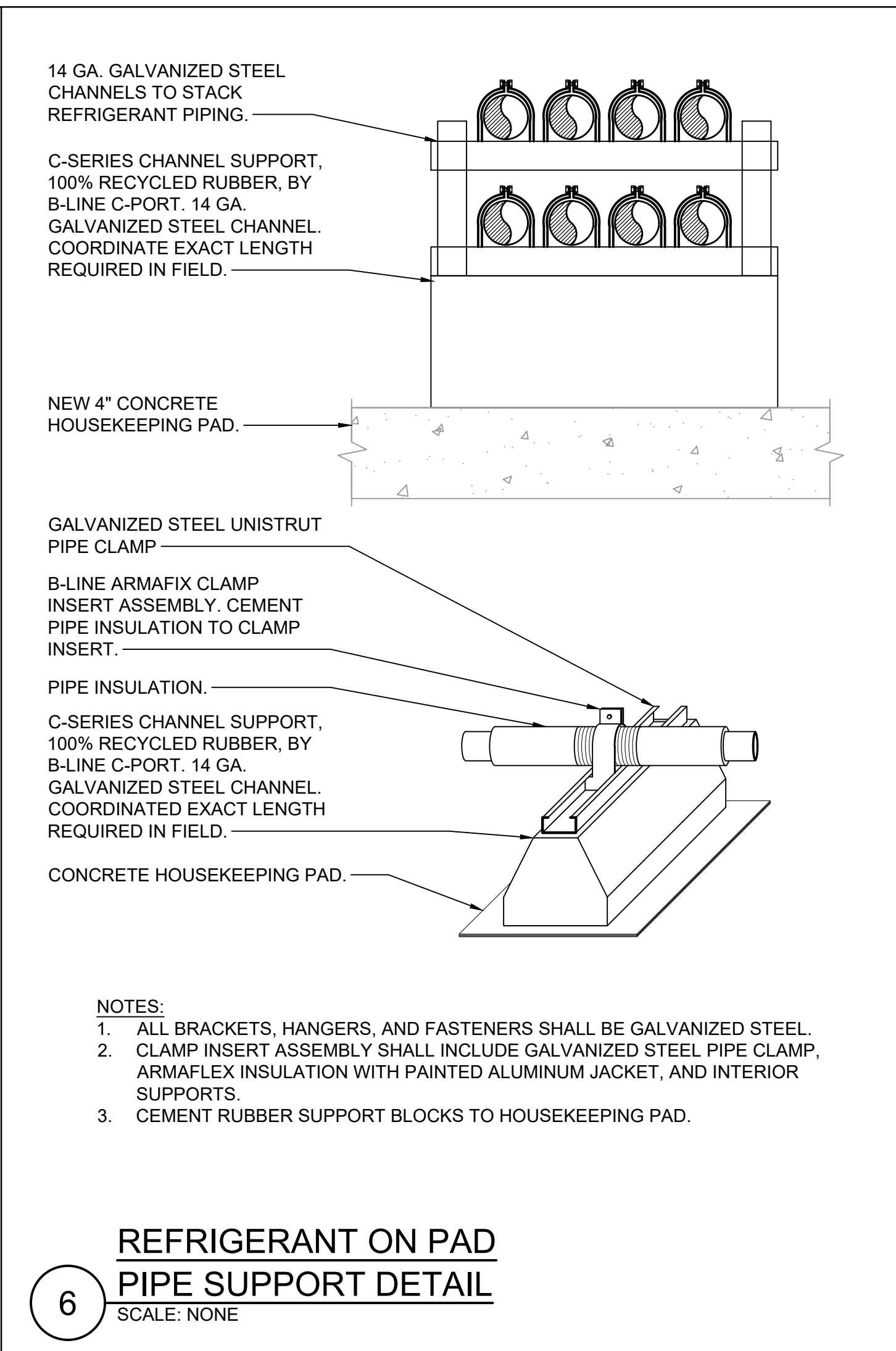
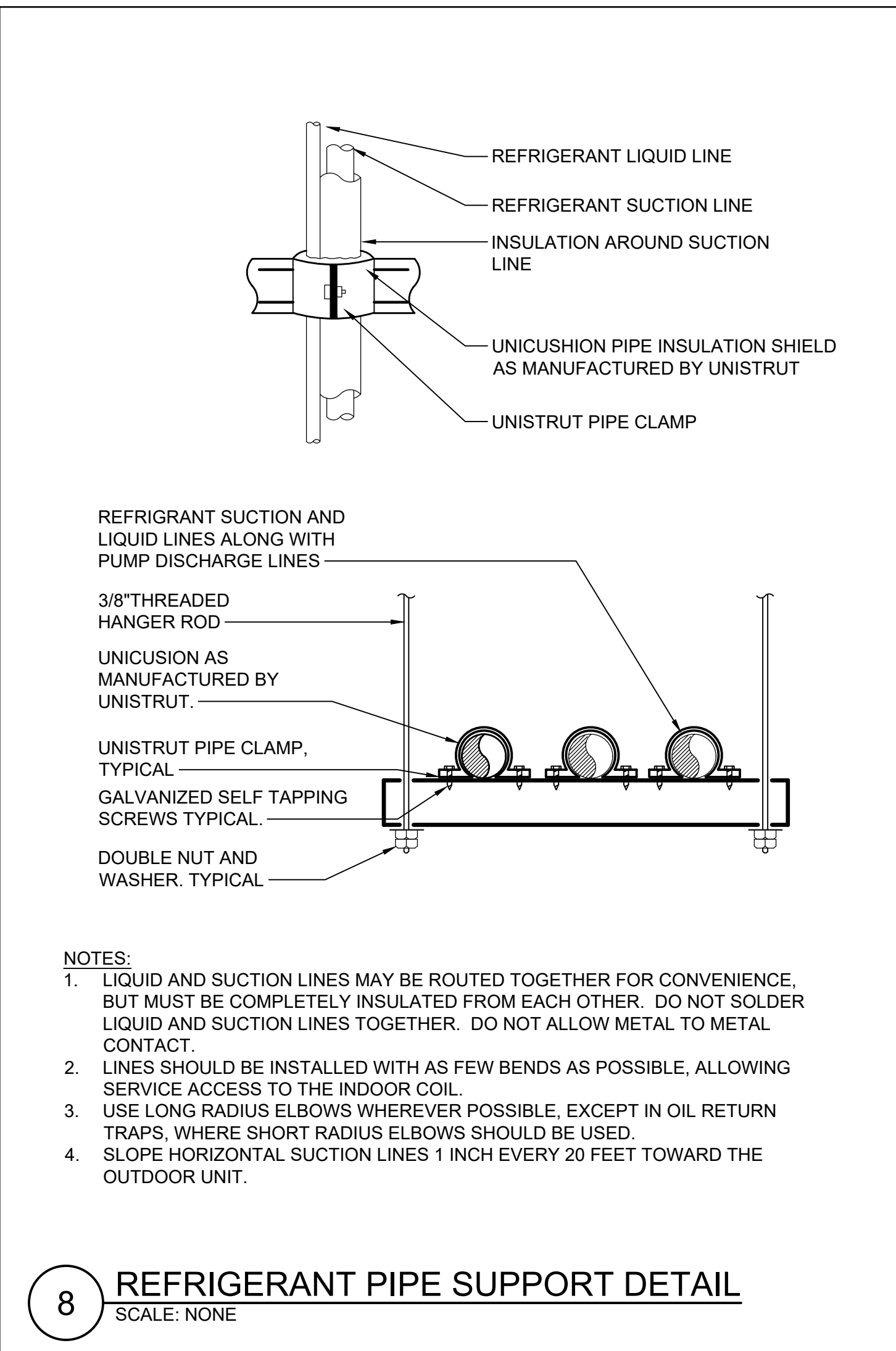
VRF RISER DIAGRAMS

Job No. NKGD0239.00 Date 12/04/2023

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Sheet Number

M501



KEY PLAN

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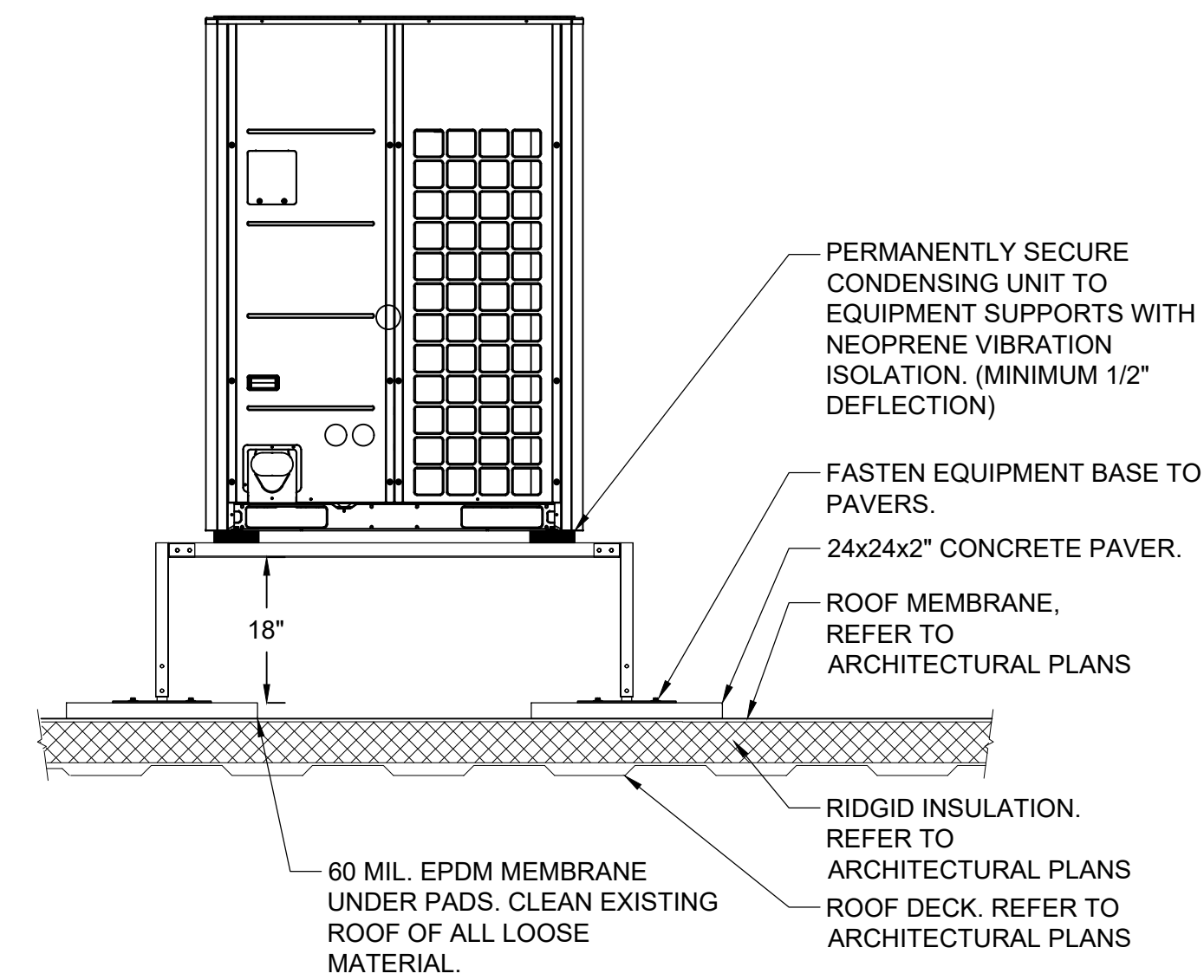
WRITTEN DIMENSIONS ON THIS DRAWING SHALL TAKE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH FABRICATION.

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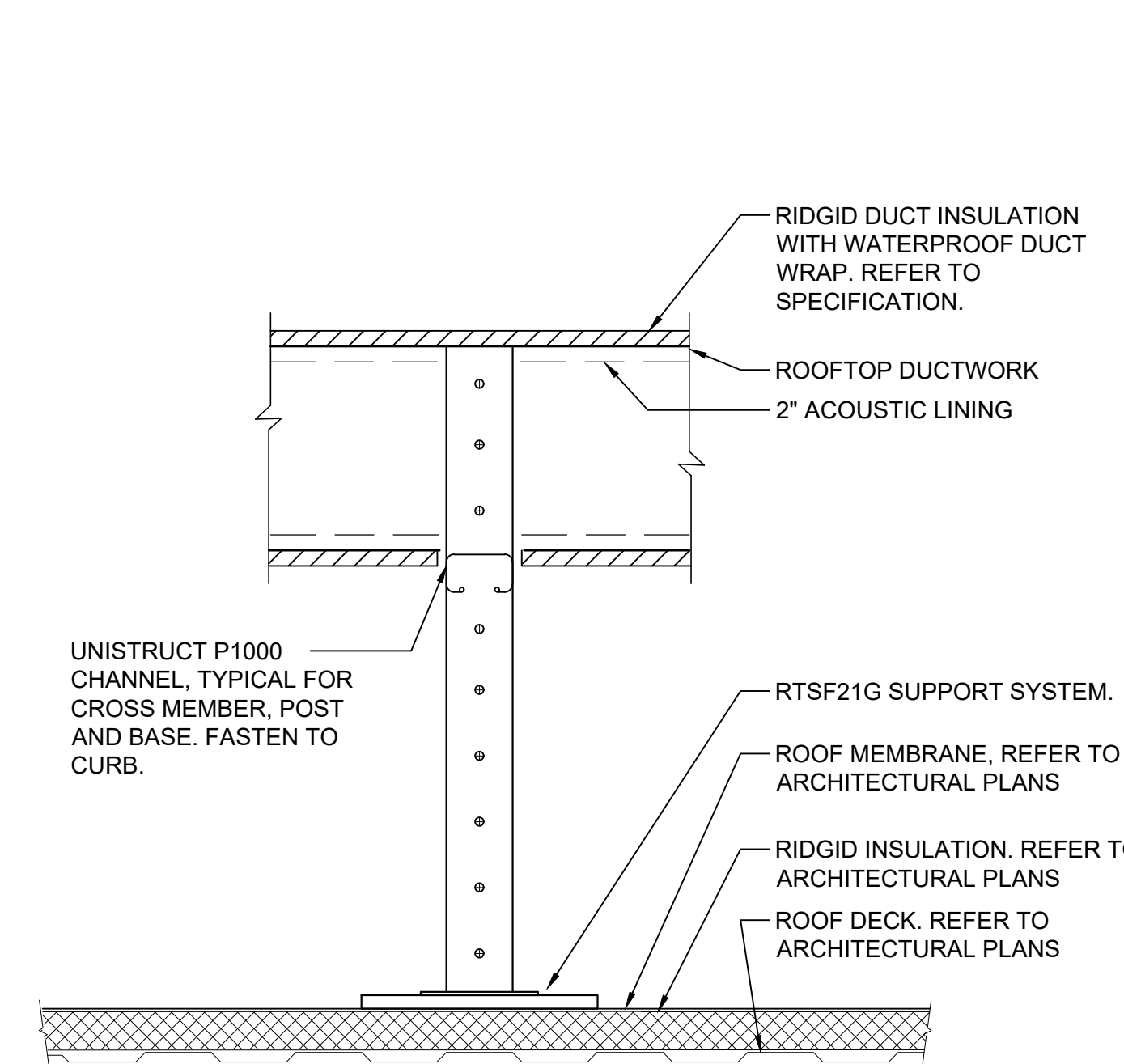
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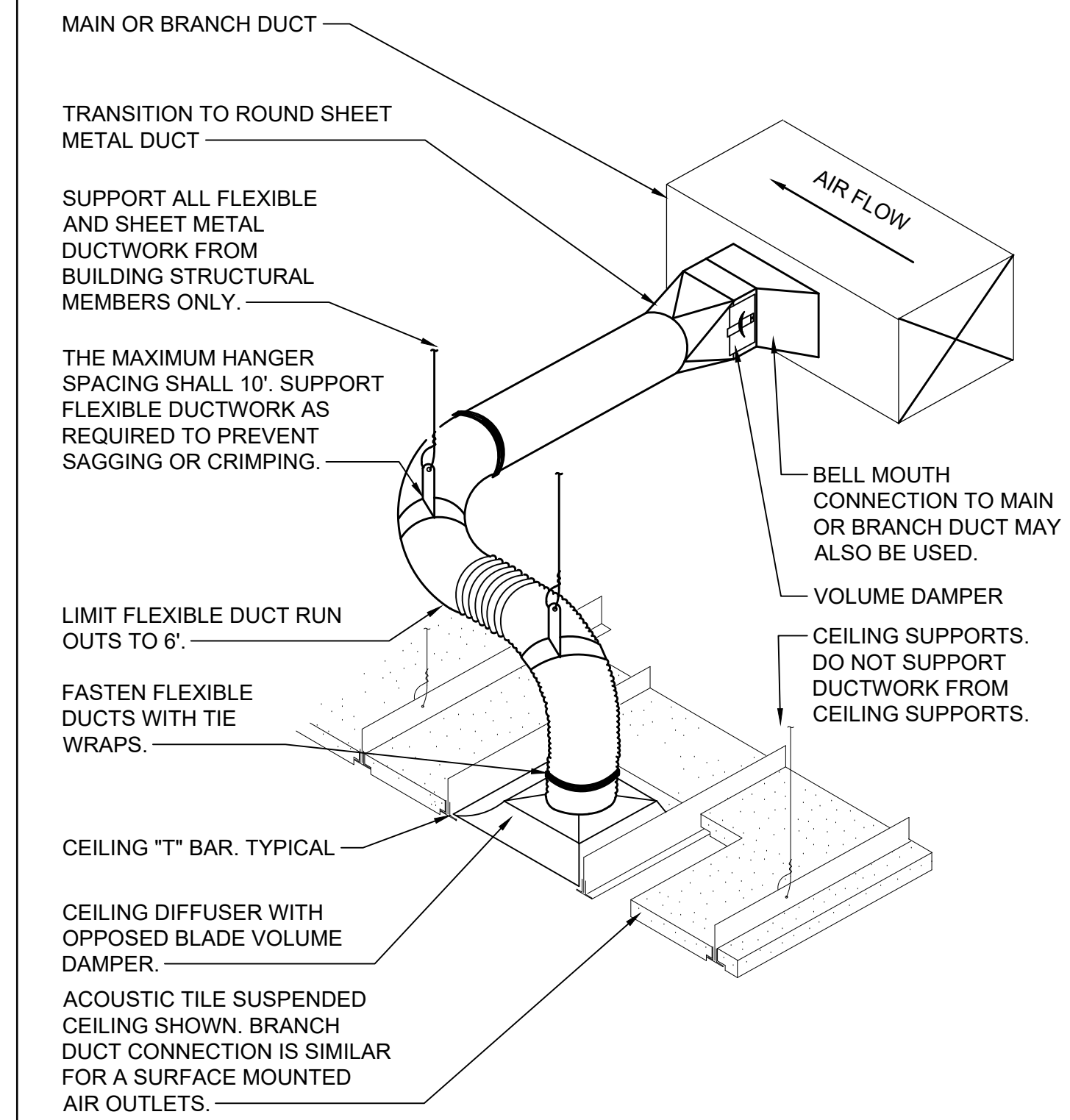
- NOTES:
- 1.) EQUIPMENT SUPPORTS SHALL BE 18" HIGH QUICK-SLING SUPER STAND, MADE WITH 7-GAUGE STEEL AND 11-GAUGE STEEL TUBING.
 - 2.) EACH PIECE OF EQUIPMENT SHALL BE MOUNTED ON CONTINUOUS SUPPORTS. EQUIPMENT SUPPORTS SHALL BE AT LEAST 6" LONGER THAN THE PIECE OF EQUIPMENT TO BE SUPPORTED.
 - 3.) ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL.
 - 4.) CEMENT EQUIPMENT SUPPORT TO ROOF - USE ONLY MATERIALS COMPATIBLE WITH THE ROOFING SYSTEM.

6 SUPPORT DETAIL FOR CONDENSING
UNITS LOCATED ON ROOF
SCALE: NONE



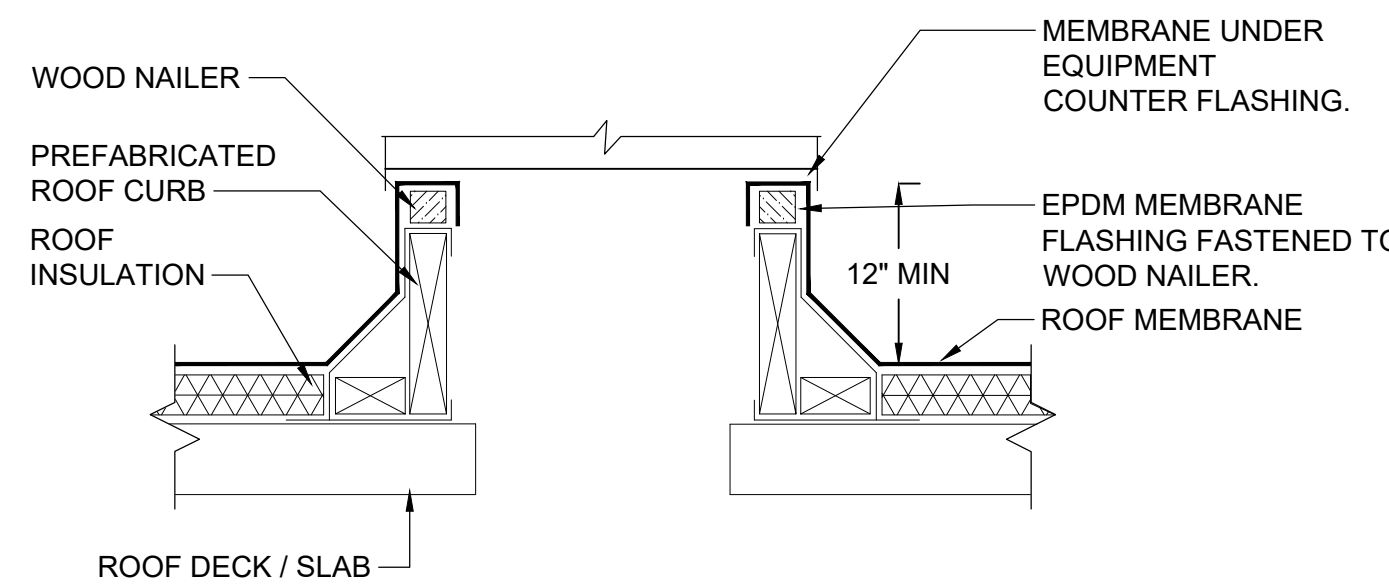
- NOTES:
- 1.) ROOF DUCT SUPPORT SHALL BE ROOFTOP SUPPORT SYSTEMS RTSF21G. 13-1/2" NOMINAL HEIGHT, MINIMUM LENGTH SHALL BE 48" OR 12" LONGER THAN DUCT WIDTH.
 - 2.) ALL BRACKETS, HANGERS, FASTENERS AND SUPPORTS LOCATED OUTDOORS SHALL BE GALVANIZED OR NICKEL PLATED.

4 ROOF DUCT SUPPORT DETAIL
SCALE: NONE



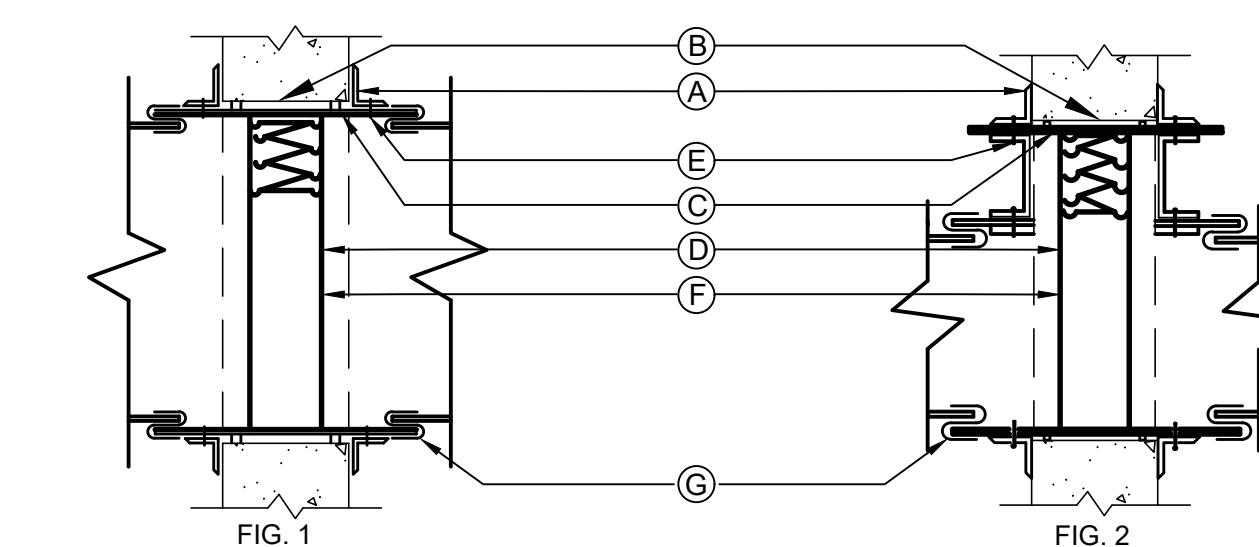
- NOTES:
1. THIS BRANCH DUCT ARRANGEMENT IS SIMILAR FOR PLENUM SLOT DIFFUSERS.

2 FLEXIBLE DUCT CONNECTION DETAIL
SCALE: NONE



- NOTES:
1. ROOF CURB DIMENSIONS TO BE COORDINATED WITH ASSOCIATED EQUIPMENT DIMENSIONS.
 2. CONTRACTOR SHALL PROVIDE ALL FLASHING, COUNTERFLASHING, AND ANY OTHER MATERIALS AND LABOR NECESSARY TO ENSURE A WATERTIGHT ROOF PENETRATION ENCLOSURE.

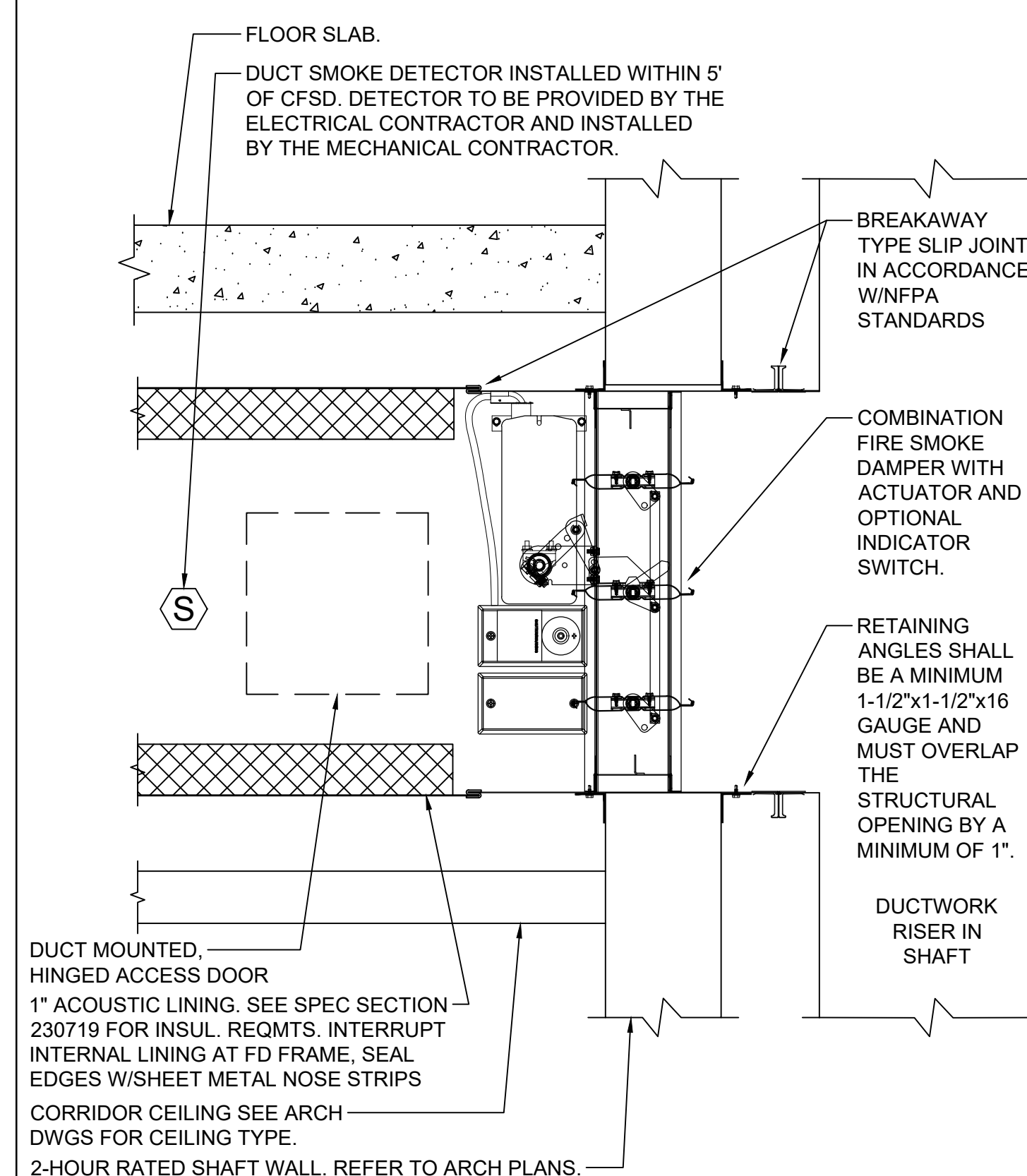
5 GENERIC ROOF CURB DETAIL
SCALE: NONE



- NOTES:
- A. RETAINING ANGLES SHALL BE A MINIMUM 1-1/2"x1-1/2"x16 GAUGE AND MUST OVERLAP THE STRUCTURAL OPENING BY A MINIMUM OF 1".
 - B. CLEARANCE BETWEEN SLEEVE AND OPENING SHALL BE 1/8" PER LINEAR FOOT, AS PER SMACNA FIG. 2-1.
 - C. STEEL SLEEVE SHALL BE AS PER SMACNA TABLE 2-2.
 - D. U.L. APPROVED FIRE DAMPER.
 - E. SECURE RETAINING ANGLES TO SLEEVE ONLY AT 8" CENTERS AS PER SMACNA FIG. 2-1.
 - F. SECURE DAMPER TO SLEEVE AT 8" CENTERS AS PER SMACNA FIG. 2-1.
 - G. CONNECT DUCT TO SLEEVE WITH BREAK-AWAY CONNECTION AS PER SMACNA FIG. 2-2.

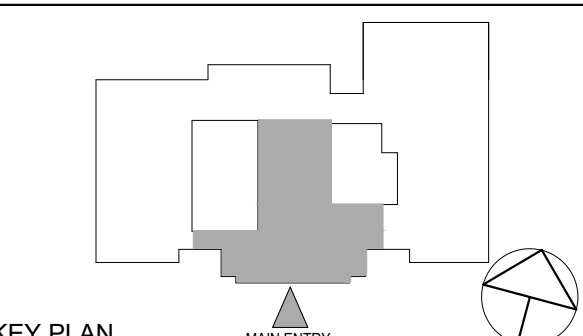
1. FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A, UL LABELS AND THE LATEST ISSUE OF S.M.A.C.N.A. CHAPTER 2.
2. CURTAIN TYPE FIRE DAMPERS SHOWN, MULTI-BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE.
3. PROVIDE ACCESS DOORS. INSTALL (1) AD FOR EACH FIRE DAMPER AS PER SMACNA FIG. 6-1.
4. FOR DUCT 12" OR LESS IN DEPTH, FIRE DAMPER SHALL BE OUT OF THE AIR STREAM. REFER TO FIGURE 2.

3 SHUTTER TYPE FIRE DAMPER
AND SLEEVE DETAIL
SCALE: NONE



- DUCT MOUNTED, HINGED ACCESS DOOR
1" ACOUSTIC LINING, SEE SPEC SECTION 230719 FOR INSUL. REQMTS. INTERRUPT INTERNAL LINING AT FD FRAME. SEAL EDGES W/SHEET METAL NOSE STRIPS
CORRIDOR CEILING SEE ARCH DWGS FOR CEILING TYPE.
2-HOUR RATED SHAFT WALL. REFER TO ARCH PLANS.

1 CORRIDOR COMBINATION FIRE
SMOKE DAMPER DETAIL
SCALE: NONE



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**MECHANICAL
DETAILS**

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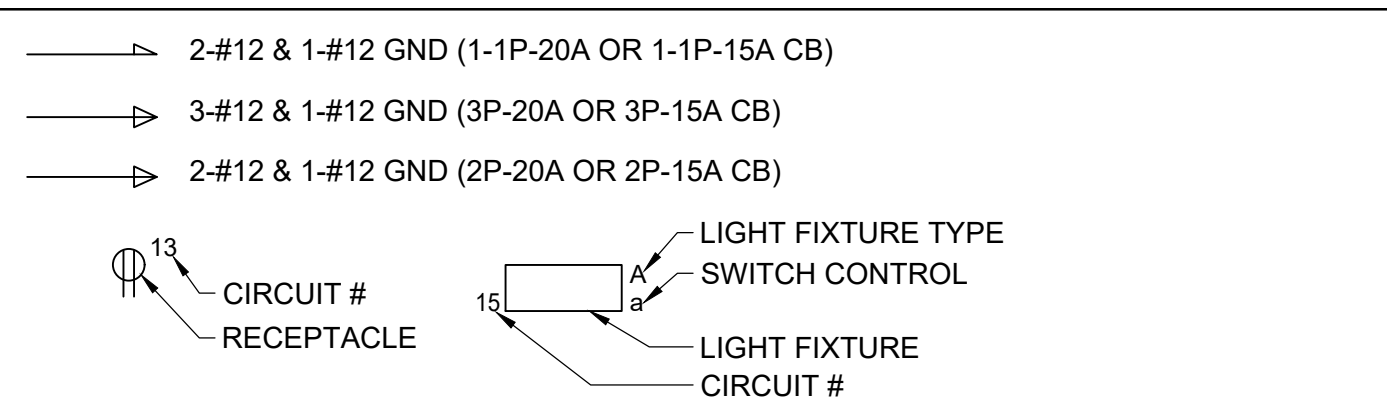
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M702

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
	-	CONDUIT AND WIRING		CB	CIRCUIT BREAKER
	-	CONDUIT & WIRING TO BE REMOVED UON		-	ENCLOSED CIRCUIT BREAKER
	-	BURIED CONDUIT		-	FUSED SWITCH
	-	OVERHEAD CONDUCTORS		GND	GROUND AS PER LOCAL CODE
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P		-	GROUND BAR
	-	MULTI-POLE HOMERUN		-	GROUND ROD
	-	ELECTRICAL EQUIPMENT AS INDICATED		XFMR	TRANSFORMER
	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON		CT	CURRENT TRANSFORMER
	-	ELECTRIC METER		-	UTILITY POLE
	-	JUNCTION BOX		WM	WATER MAIN
	-	FUSED DISCONNECT SWITCH		MD	MOTORIZED DAMPER
	-	UNFUSED DISCONNECT SWITCH		SD OR CFSD	SMOKE DAMPER
	-	COMBINATION MOTOR STARTER/FUSED DISC.		UH	UNIT HEATER
	-	MOTOR STARTER		VAV	VARIABLE AIR VOLUME BOX
	-	MOTOR		-	CLOCK
	-	BATTERY PACK EMERGENCY LIGHT FIXTURE		A	AMPERE(S)
	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW		AC	AIR CONDITIONER
	-	SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		ACC	AIR CONDITIONER CONDENSER
	-	THREE WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		AFF	ABOVE FINISHED FLOOR
	-	FOUR WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		AF	AMPERAGE OF FUSE
	-	DIMMER SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		AGL	ABOVE GRADE LEVEL
	-	MOTOR RATED TOGGLE SWITCH		AHU	AIR HANDLING UNIT
	-	KEY OPERATED SINGLE POLE SWITCH		AL	ALUMINIUM
	-	WALL MOUNTED OCCUPANCY SENSOR		ARC	ARC FAULT INTERRUPTER
	-	CEILING MOUNTED OCCUPANCY SENSOR		AS	AMPERAGE OF SWITCH
	-	DUPLEX RECEPTACLE		ATS	AUTOMATIC TRANSFER SWITCH
	-	DOUBLE DUPLEX RECEPTACLE		AWG	AMERICAN WIRE GAUGE
	-	SPECIAL RECEPTACLE		BLDG	BUILDING
	-	TELEPHONE OUTLET		BMS	BUILDING MANAGEMENT SYSTEM
	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)		C	CONDUIT
	-	CEILING DATA POINT		CD	CANDELA
	-	FIRE ALARM MANUAL PULL STATION		CKT	CIRCUIT
	-	FIRE ALARM VOICE EVACUATION COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE)		CLG	CEILING
	-	FIRE ALARM VOICE EVACUATION COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE)		COL	COLUMN
	-	FIRE ALARM STROBE 15/75 CD		CU	COPPER
	-	FIRE ALARM STROBE 110 CD		DEM.	DEMOLISH AND REMOVE
	-	CARBON MONOXIDE AUDIO/VISUAL DEVICE (15/75 CD - STROBE)		DISC	DISCONNECT
	-	SMOKE DETECTOR, EL - ELEVATOR LOBBY, SH - SMOKE HATCH, SC - PLENUM RATED ABOVE CEILING		DIM	DIMMER
	SB	FIRE ALARM DEVICE, SB - SOUNDER BASE FOR SMOKE OR CARBON MONOXIDE DETECTOR		DWG	DRAWING
	-	BEAM SMOKE DETECTOR RECEIVER		ELEV	ELEVATOR
	-	BEAM SMOKE DETECTOR TRANSMITTER		EMT	ELECTRICAL METALLIC TUBING
	-	DUCT MOUNTED SMOKE DETECTOR		EM	EMERGENCY
	-	HEAT DETECTOR		EX	EXISTING TO REMAIN
	-	CARBON MONOXIDE DETECTOR		F	FLOOR
	-	NATURAL GAS DETECTOR		FBO	FURNISHED BY OTHERS
	-	FIRE ALARM BELL		FC	FAN COIL UNIT
	-	FIRE ALARM TAMPER SWITCH		GEN	GENERATOR
	-	FIRE ALARM WATER FLOW SWITCH		GFI	GROUND FAULT INTERRUPTER
	-	FIRE ALARM DOOR RELEASE		HP	HORSEPOWER
	-	FIRE ALARM ANNUNCIATOR PANEL		HVAC	HEATING VENTILATION AIR CONDITIONING
	CM	FIRE ALARM CONTROL MODULE		IG	ISOLATED GROUND
	MM	FIRE ALARM MONITORING MODULE		IMC	INTERMEDIATE METAL CONDUIT
	FACP	FIRE ALARM CONTROL PANEL		KVA	KILO-VOLT-AMPERE
	BPS	BOOSTER POWER SUPPLY		KW	KILO-WATT
	DGP	DATA GATHERING PANEL		MAX	MAXIMUM
	FCS	FIRE COMMAND STATION		MCB	MAIN CIRCUIT BREAKER
	FSS	FIRE SUPPRESSION SYSTEM PANEL		MCC	MOTOR CONTROL CENTER
	R	FIRE ALARM RELAY		MIN	MINIMUM
	EOL	END OF LINE RESISTOR		MLO	MAIN LUG ONLY
	-	CEILING MOUNTED PUBLIC ADDRESS SPEAKER		MTS	MANUAL TRANSFER SWITCH
	-	CEILING MOUNTED SPHERICAL TYPE LOUD SPEAKER		NIC	NOT IN CONTRACT
	-	PUBLIC ADDRESS BELL		NL	NIGHT LIGHT
	-	CAMERA		NTS	NOT TO SCALE
	-	CLOCK		PBO	PROVIDED BY OTHERS
				PNL	PANEL
				REL	REMOVE AND RELOCATE
				RGS	RIGID GALVANIZED STEEL
				RTU	ROOF TOP UNIT
				SCH	SCHEDULE
				SPD	SURGE PROTECTION DEVICE
				SW	SWITCH(ES)
				TELCO	TELEPHONE COMPANY
				TYP	TYPICAL
				UG	UNDERGROUND

TYPICAL BRANCH CIRCUIT WIRING LEGEND



NOTES:
 1. EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED.
 2. CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100' AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AWG. FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER.

NOTES:
 1) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.
 2) SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.

GENERAL NOTES

- ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
- THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE A THIRD PARTY ELECTRICAL INSPECTION AGENCY TO PROVIDE UL INSPECTIONS AND SUBMIT A CERTIFICATE OF INSPECTION PRIOR TO FINAL REQUEST FOR PAYMENT.
- ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".
- ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.
- CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
- CORE DRILLING OR TRENCHING THROUGH AN EXISTING FLOOR SLAB, WHEN REQUIRED, SHALL BE COORDINATED WITH THE OWNER. FLOOR SLABS SHALL BE RADAR SCANNED PRIOR TO CORE DRILLING OR TRENCHING. ALL WORK, INCLUDING CORE DRILLING, RADAR SCAN, INSTALLATION OF FIRE STOPPING, & CONDUIT/CABLE INSTALLATION SHALL BE PERFORMED DURING NON-BUSINESS HOURS AND INCLUDED IN BASE BID. USE EXTREME CAUTION DURING ANY CUTTING OPERATION TO AVOID DAMAGE TO EXISTING EQUIPMENT/SYSTEMS. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED AT NO COST TO THE CLIENT. ALL CORES SHALL BE FIRE SEALED.
- FOR EACH WALL MOUNTED COMMUNICATIONS OUTLET, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE.
- COMMUNICATION WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. DRAWINGS INDICATE NUMBER OF CAT6 CABLES THAT SHALL BE PROVIDED TO EACH LOCATION BY ELECTRICAL CONTRACTOR.
- WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
- CEILING MOUNTED RECEPTACLES AND DATA POINTS SHALL BE MOUNTED FLUSH TO CEILING.
- UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET AND UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
- DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.
- INCLUDE IN BASE BID (1P-20A CB) CIRCUITS ON EACH LEVEL AS INDICATED (150' LENGTH EACH) FOR HVAC SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 23 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:
 FIRST FLOOR - LPSP1-16, 18, 20
 THIRD FLOOR - PPS - 17, 19, 21, 23, 25
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE DEMOLITION AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, CONDUITS, WIRING, DEVICES, FIXTURES, ETC. INCLUDING ABOVE CEILINGS. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH WALLS, AS REQUIRED TO EXECUTE THE ELECTRICAL WORK.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE AND PAY ALL FEES FOR THE UL FIELD EVALUATION SERVICE TO RE-INSPECT AND RE-CERTIFY ALL SWITCHBOARDS AND DISTRIBUTION BOARDS IN RELATION TO MODIFICATIONS REQUIRED WHEN TAPPING THE BUS. CONTRACTOR SHALL SCHEDULE WITH UL PRIOR TO START OF WORK. UL SHALL BE PRESENT WHILE TAPPING OF THE SWITCHBOARD IS EXECUTED. (TEL: 1-877-ULHELPS)

DEFINITION OF TERMS

- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "TUCKAHOE UNION FREE SCHOOL DISTRICT" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "KG&D ARCHITECTS P.C." IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "CON EDISON" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "FIRE ALARM SYSTEM" OR "FIRE ALARM VENDOR" ARE USED, IT MUST BE UNDERSTOOD THAT "FIRE SYSTEM" IS INTENDED.
- "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
- "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
- "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
- "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
- THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:
 A. "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.
 B. "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.
 C. "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.
 D. "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

DEMOLITION NOTES

- ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGINATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
- CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN. TEMPORARY AND PERMANENTLY WORK REQUIRING THE SHUT-DOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN BASE BID.
- CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD VERIFIED PRIOR TO BID.
- ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON.
- ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.
- THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES.

TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS
 TUCKAHOE UNION FREE SCHOOL DISTRICT

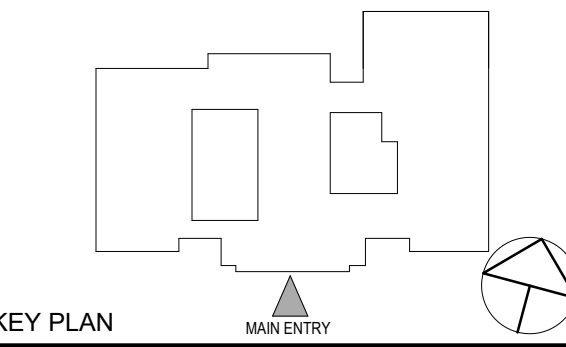
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NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



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No. 1 Date Issue
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ELECTRICAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES

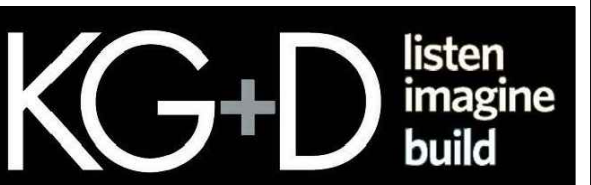
Job No. NKG02239.00 Date 12/04/2023
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Sheet Number
E001

**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709



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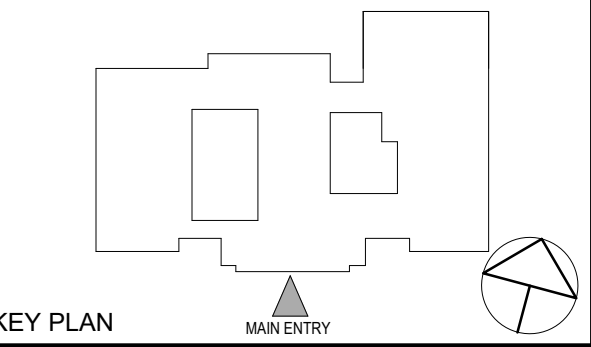
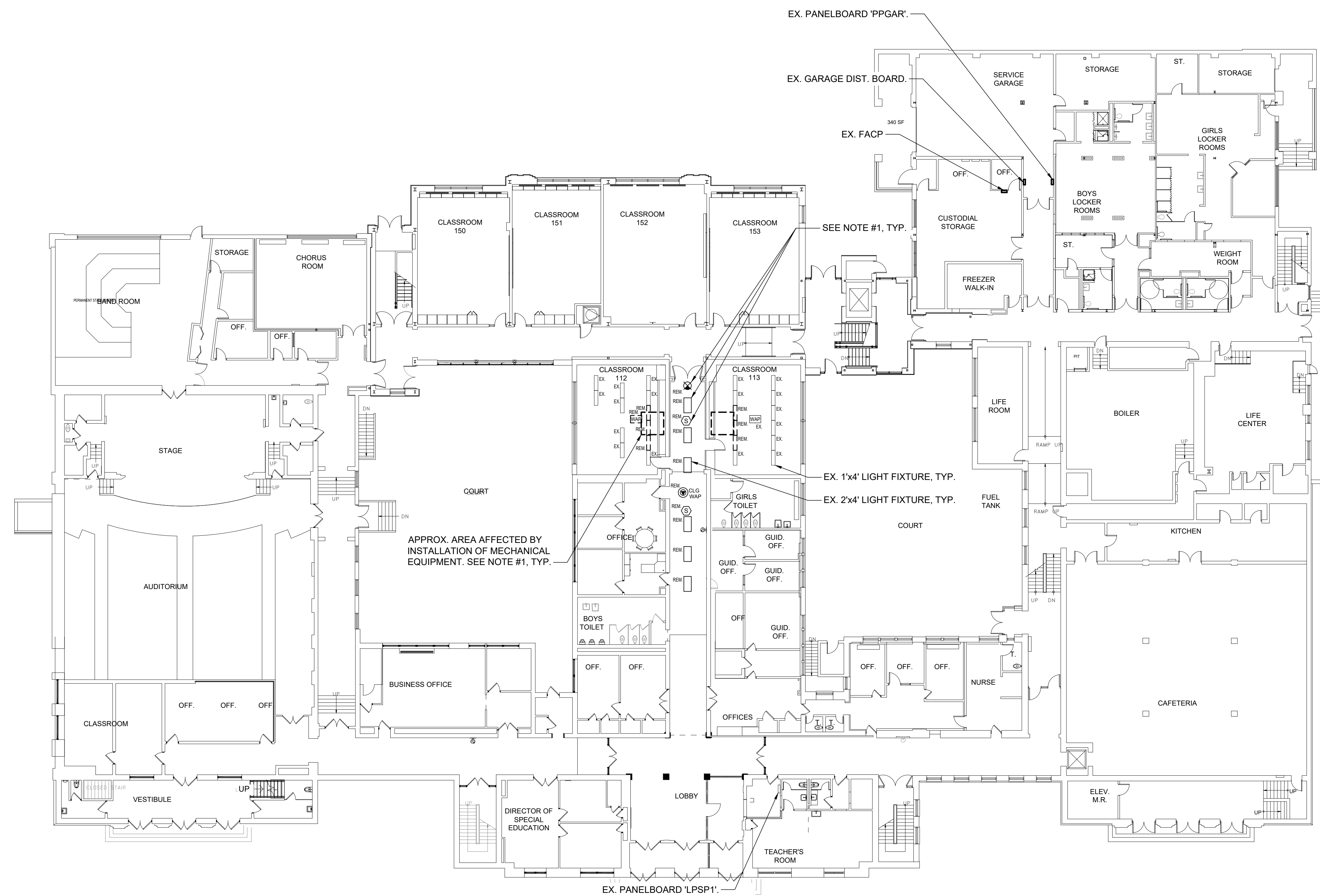
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CONSTRUCTION DOCUMENTS

NOTES:

1) CONTRACTOR SHALL REMOVE ALL DEVICES AND FIXTURES INSTALLED ON DROP CEILING, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, FIRE ALARM DEVICES, LIGHTING CONTROL, ETC. IN AFFECTED AREAS INDICATED TO FACILITATE THE INSTALLATION OF MECHANICAL EQUIPMENT. CONTRACTOR SHALL REMOVE, STORE, CLEAN, REINSTALL AND TEST ALL DEVICES, FIXTURES AND WIRING IN ORIGINAL LOCATION ONCE THE MECHANICAL INSTALLATION IS COMPLETE. CONTRACTOR SHALL RELOCATE AND PROTECT WIRING ABOVE THE CEILING AS REQUIRED. INCLUDE RELOCATION OF 50' OF 2-#12 AND 1-#12 GND IN 3/4" C FOR EACH LOCATION IN BID.



KEY PLAN

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Professional Seal

1 ELECTRICAL FIRST FLOOR DEMOLITION PLAN
SCALE: 1/16" = 1'-0"
NORTH

1 12/04/2023 ISSUED FOR BID

No. 1 Date Issue

Sheet Title

**ELECTRICAL FIRST
FLOOR DEMOLITION
PLAN**

Job No. NKGD0239.00 Date 12/04/2023

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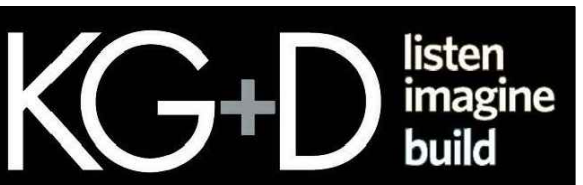
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E101

**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709



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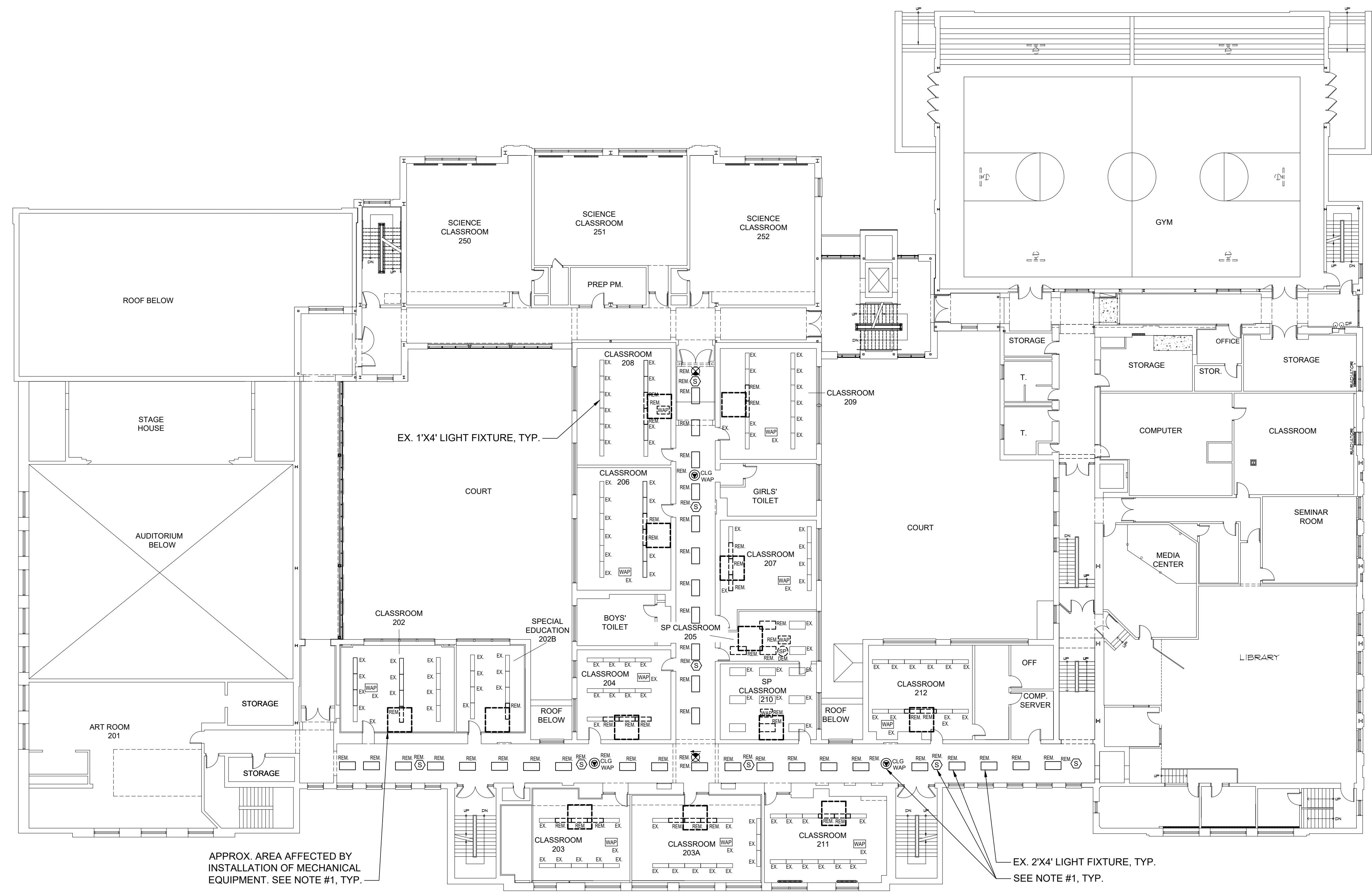
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66-03-02-03-0-002-024

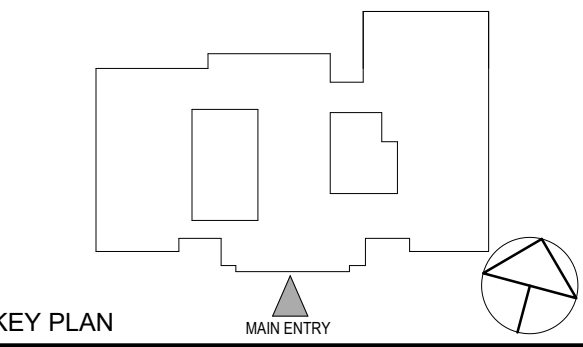
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1 ELECTRICAL SECOND FLOOR DEMOLITION PLAN
SCALE: 1/16" = 1'-0"
NORTH



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No. 1 Date Issue

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ELECTRICAL SECOND FLOOR DEMOLITION PLAN

Job No. NKGD2239.00 Date 12/04/2023

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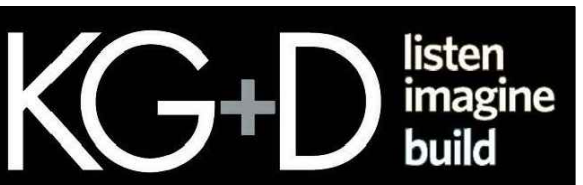
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E102

**TUCKAHOE
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SCHOOL
ALTERATIONS**

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SCHOOL DISTRICT

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EASTCHESTER, N.Y. 10709



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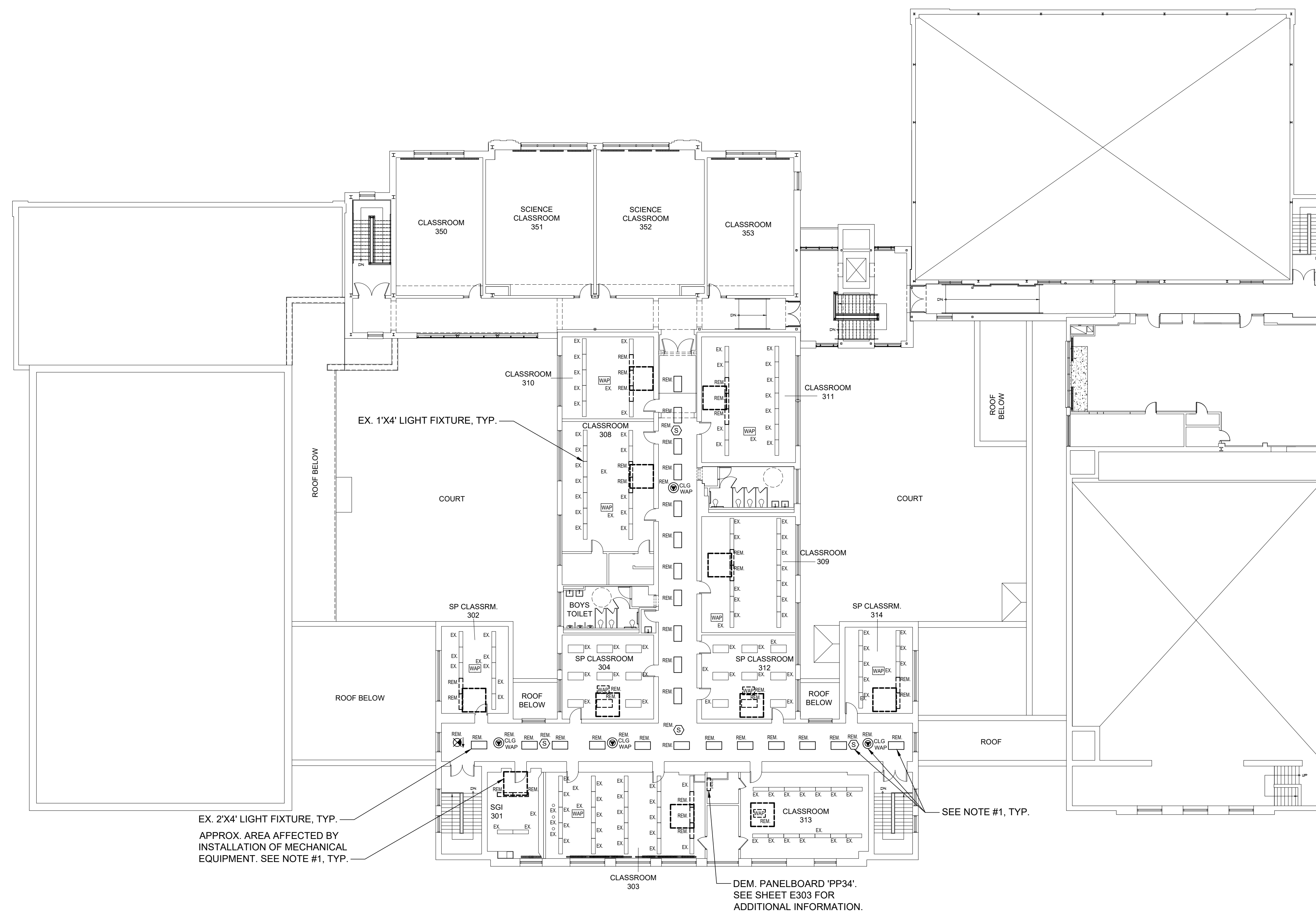
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66-03-02-03-0-002-024

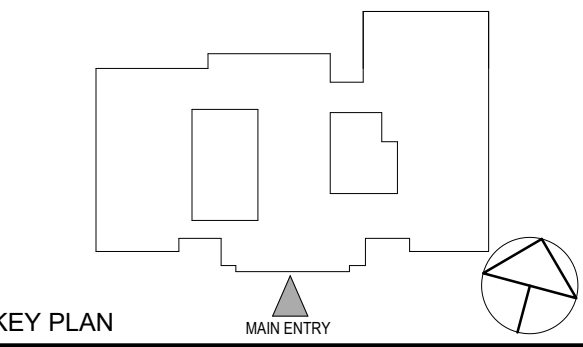
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1 ELECTRICAL THIRD FLOOR DEMOLITION PLAN
SCALE: 1/16" = 1'-0"



KEY PLAN

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No. 1 Date Issue

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ELECTRICAL THIRD FLOOR DEMOLITION PLAN

Job No. NKGD0239.00 Date 12/04/2023

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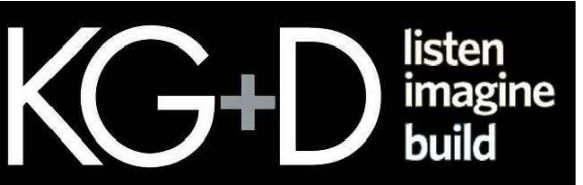
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E103

TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709

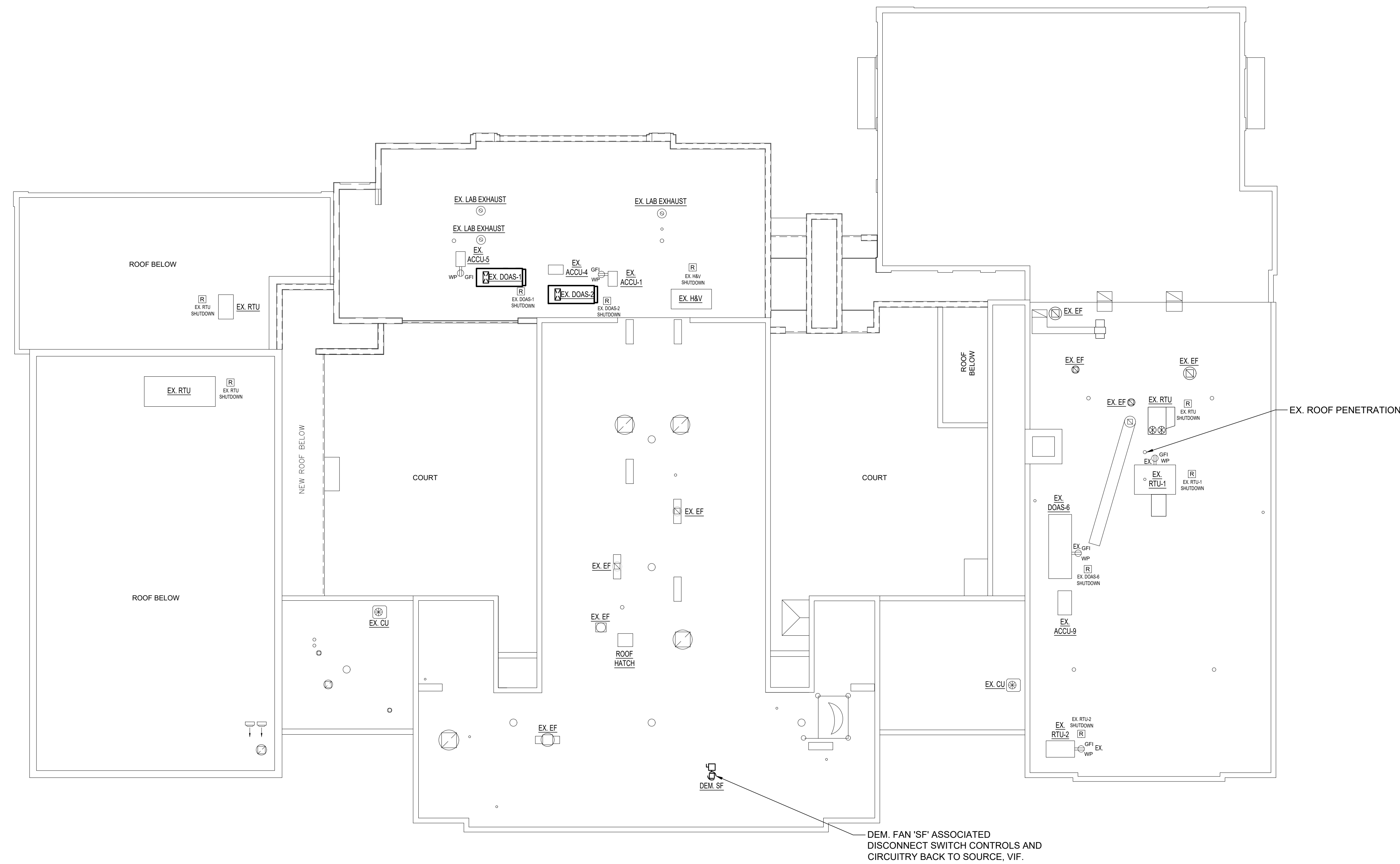


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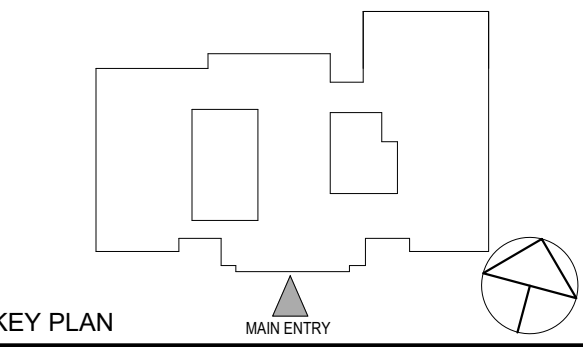
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66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



1 ELECTRICAL ROOF DEMOLITION PLAN
SCALE: 1/16" = 1'-0"



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No. Date Issue

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ELECTRICAL ROOF
DEMOLITION PLAN

Job No. Date

NKGD0239.00 12/04/2023

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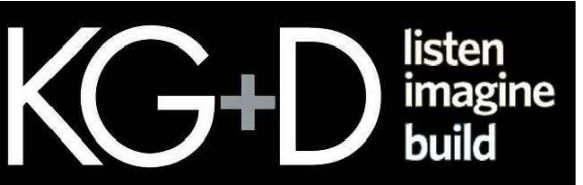
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E104

**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709

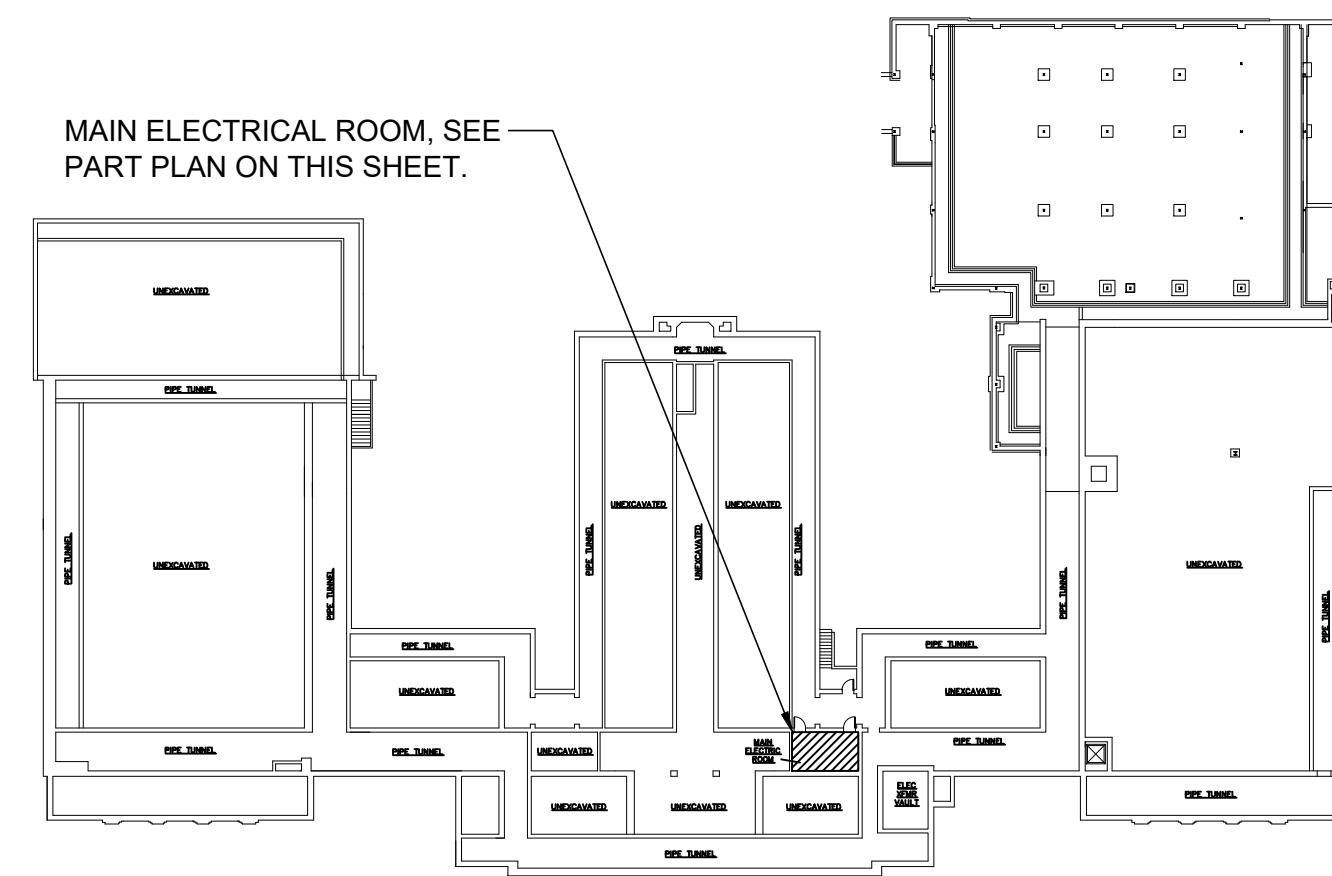


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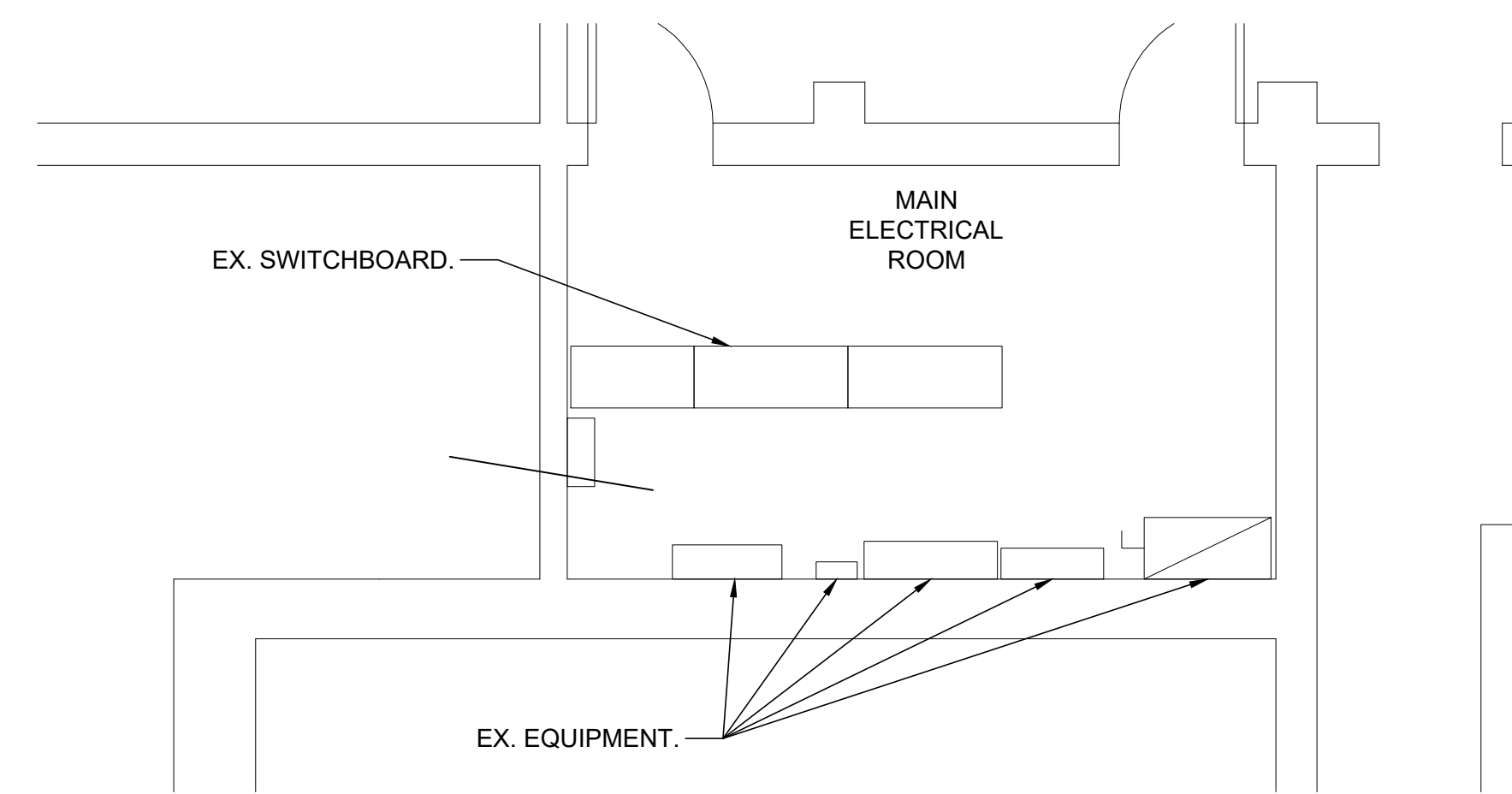
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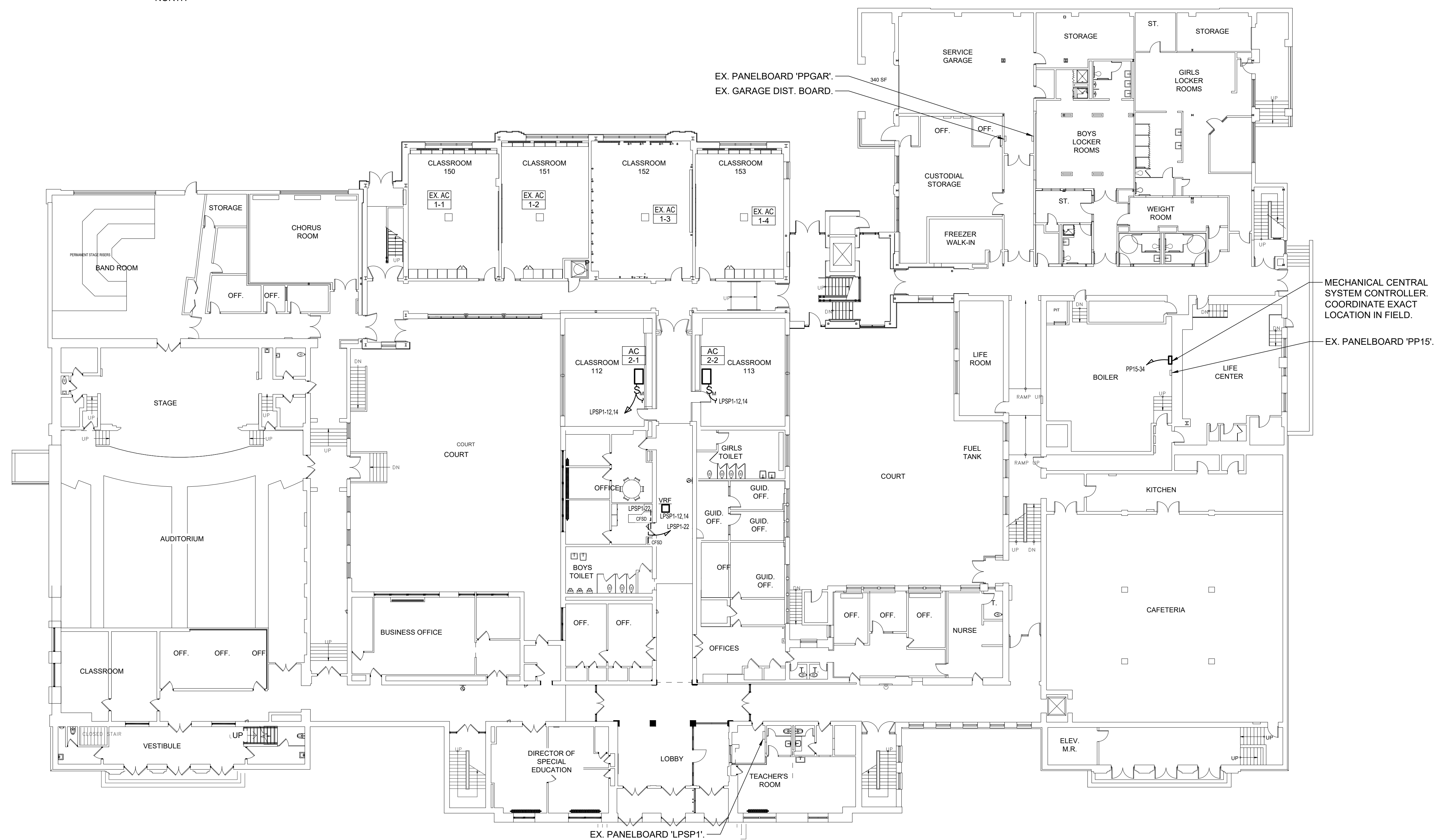
CONSTRUCTION DOCUMENTS



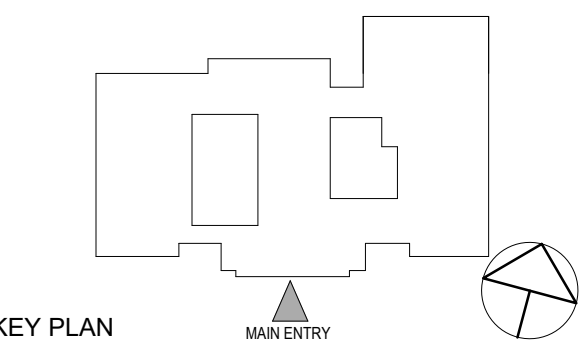
3 ELECTRICAL FIRST FLOOR NEW WORK PLAN
SCALE: 1" = 50'-0"
NORTH



2 MAIN ELECTRICAL ROOM PART PLAN
SCALE: 1/4" = 1'-0"
NORTH



1 ELECTRICAL FIRST FLOOR NEW WORK PLAN
SCALE: 1/16" = 1'-0"
NORTH



KEY PLAN

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Sheet Title

ELECTRICAL FIRST FLOOR NEW WORK PLAN

Job No. NKGD0239.00 Date 12/04/2023

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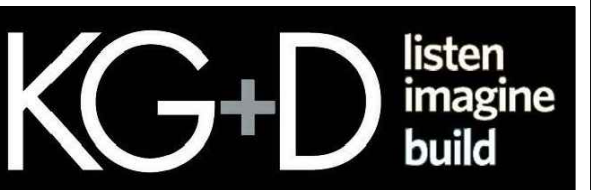
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E301

**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709

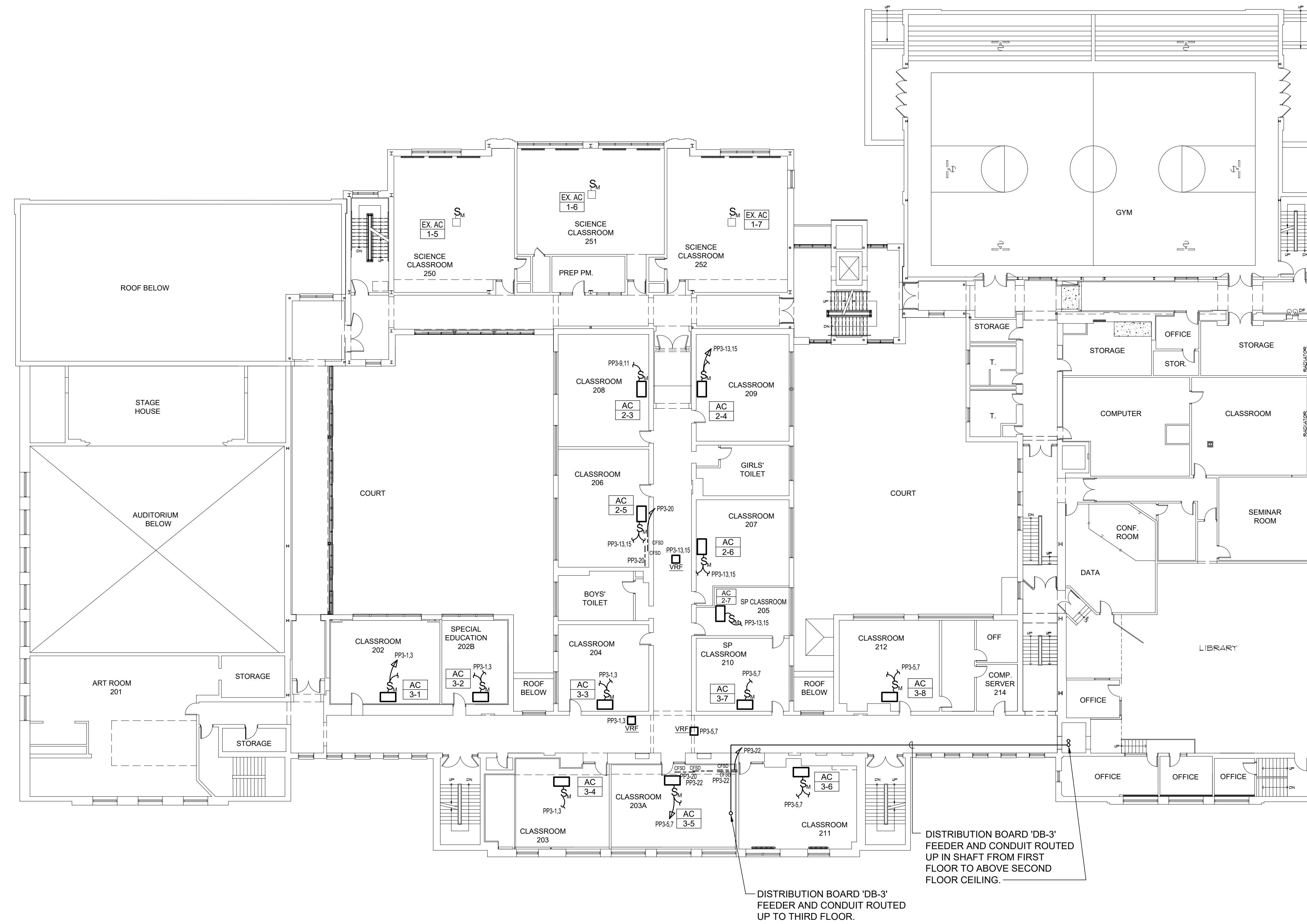


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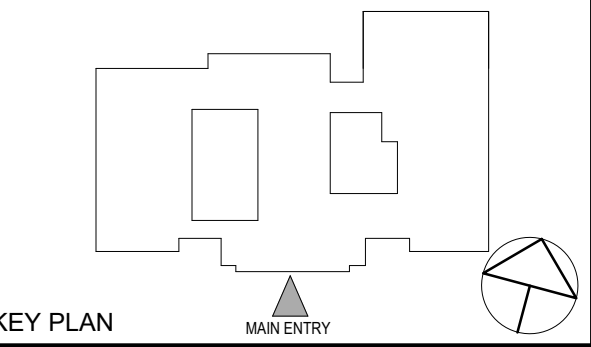
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66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



1 ELECTRICAL SECOND FLOOR NEW WORK PLAN
SCALE: 1/16" = 1'-0"
NORTH



KEY PLAN

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ELECTRICAL SECOND FLOOR NEW WORK PLAN

Job No. NKGD0239.00 Date 12/04/2023

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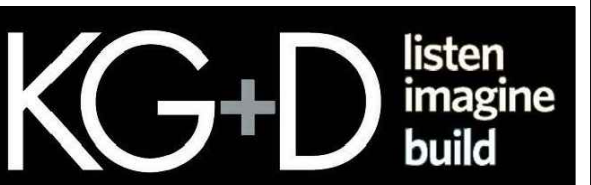
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E302

**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709

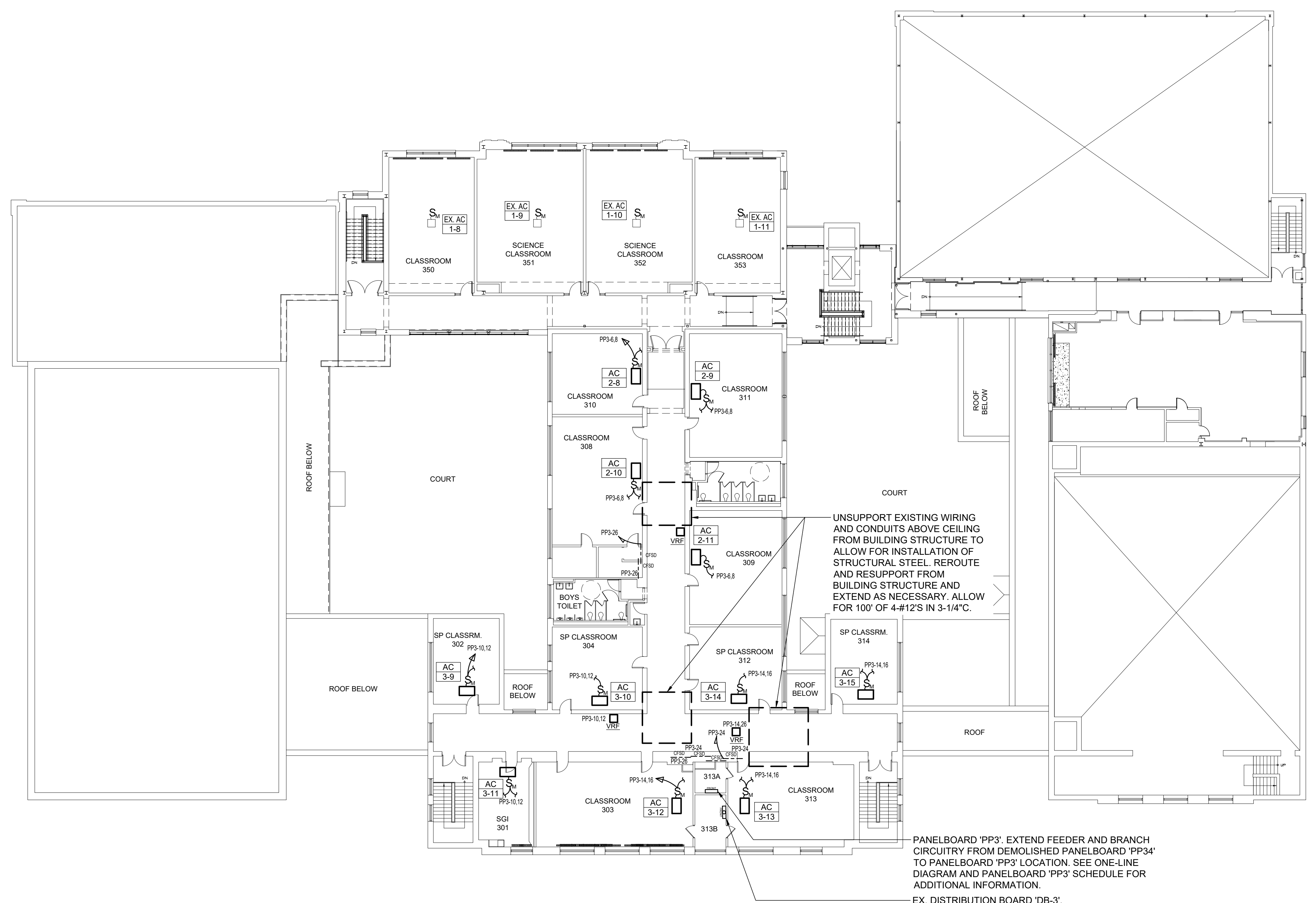


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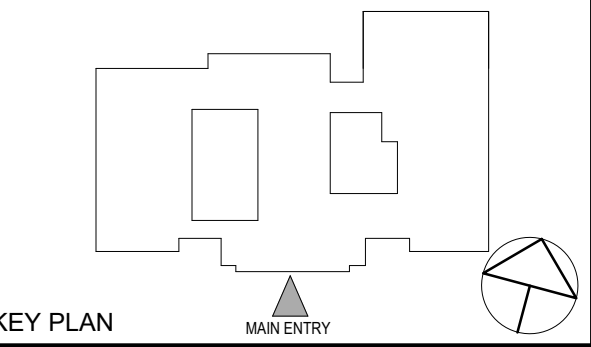
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66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



1 ELECTRICAL THIRD FLOOR NEW WORK PLAN
SCALE: 1/16" = 1'-0"
NORTH



KEY PLAN

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ELECTRICAL THIRD FLOOR NEW WORK PLAN

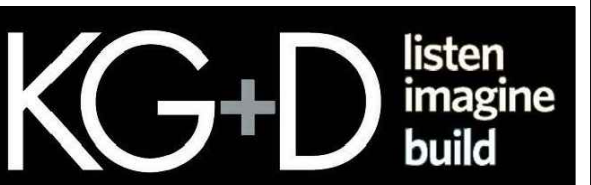
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Sheet Number
E303

**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709

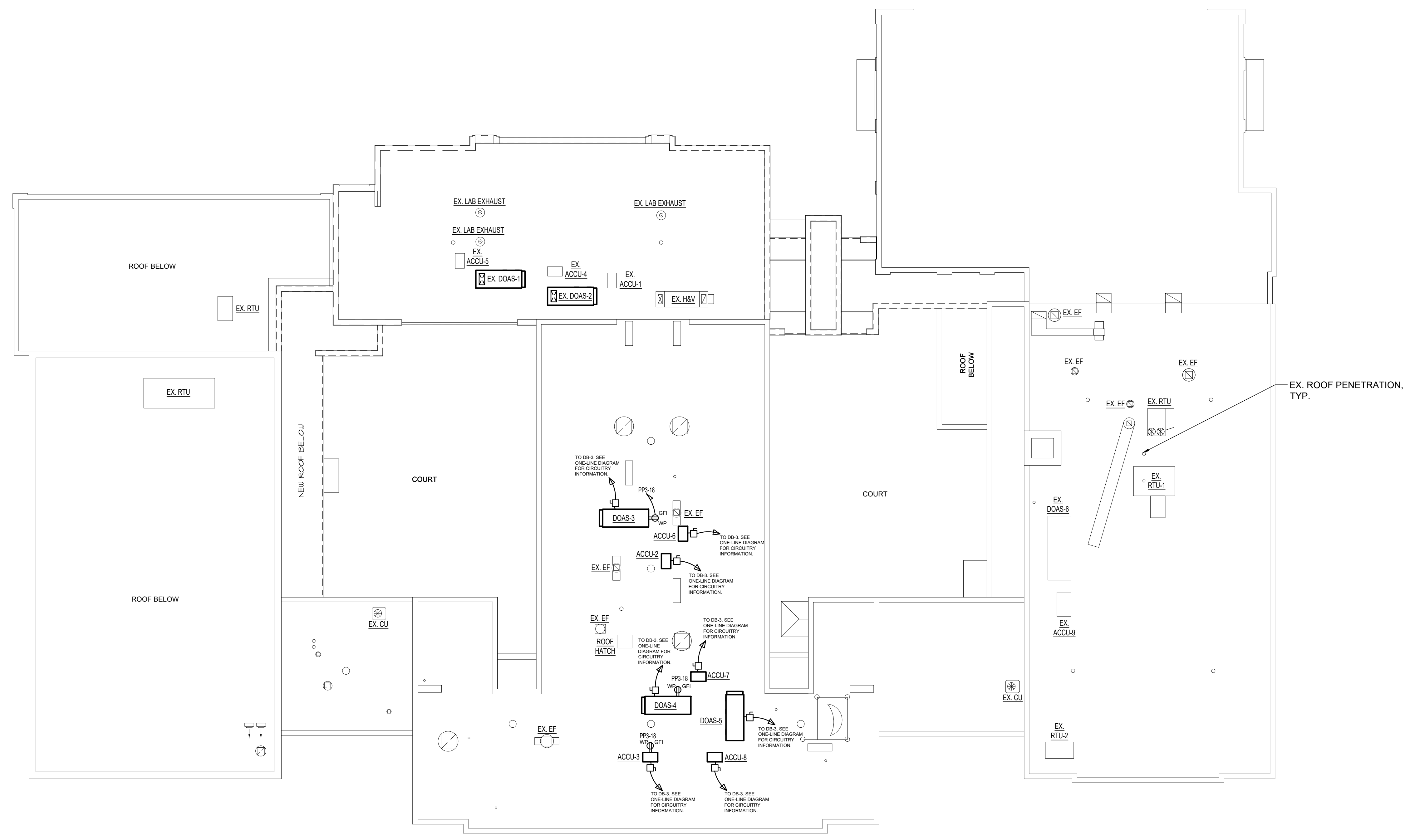


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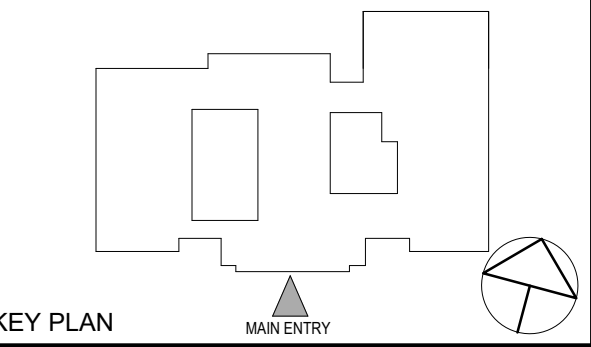
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CONSTRUCTION DOCUMENTS



1 ELECTRICAL ROOF NEW WORK PLAN
SCALE: 1/16" = 1'-0"
NORTH



KEY PLAN

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Professional Seal

1 12/04/2023 ISSUED FOR BID

No. Date Issue

**ELECTRICAL ROOF
NEW WORK PLAN**

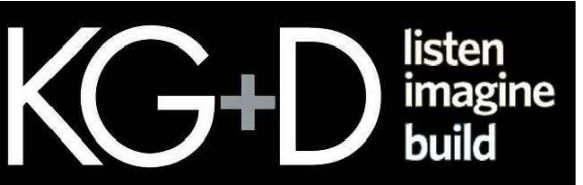
Job No. NKGD0239.00 Date 12/04/2023
Scale AS NOTED Drawn / Checked JJVB/MLDS

Sheet Number
E304

**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOV BLD
EASTCHESTER, N.Y. 10709

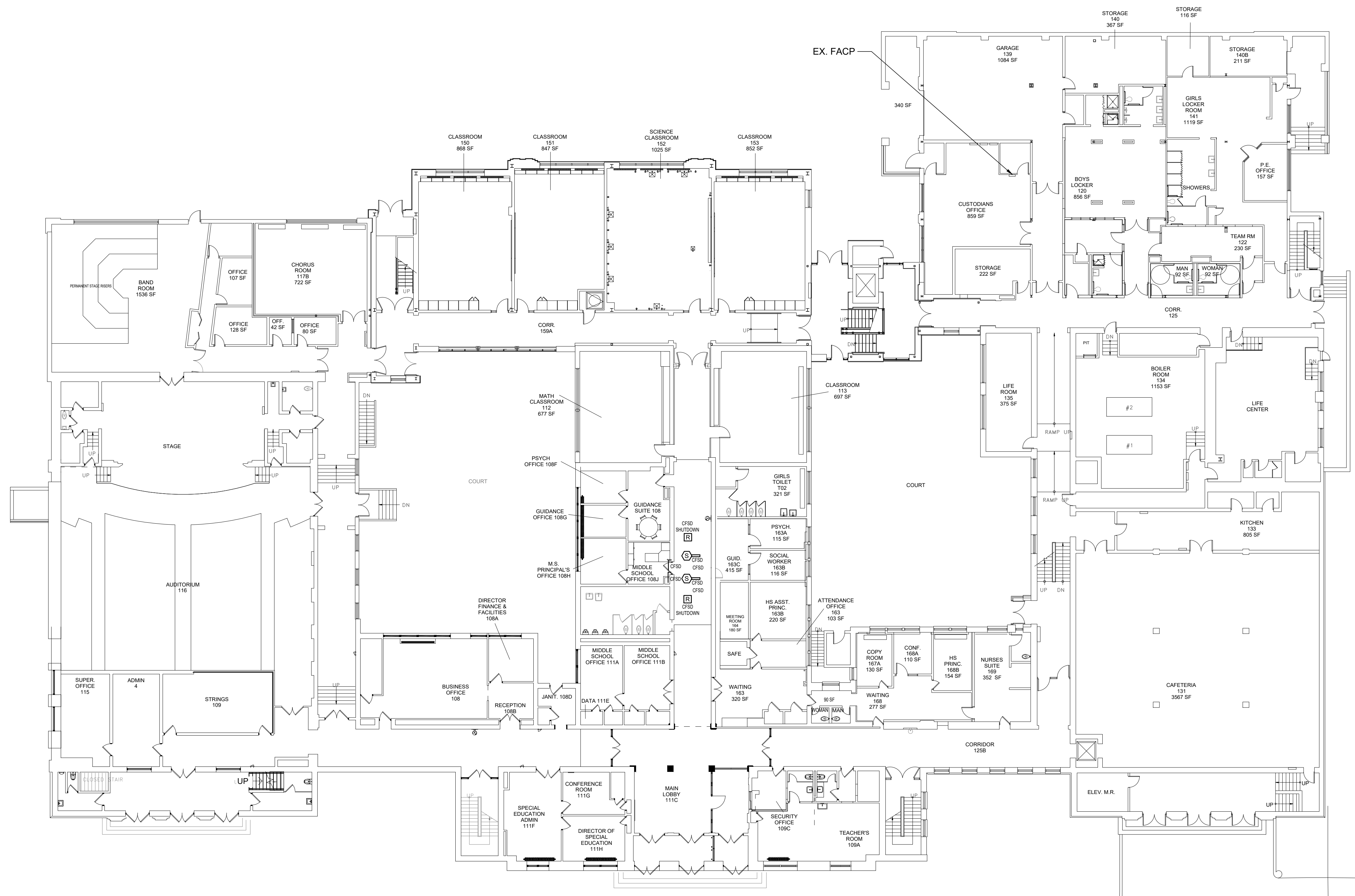


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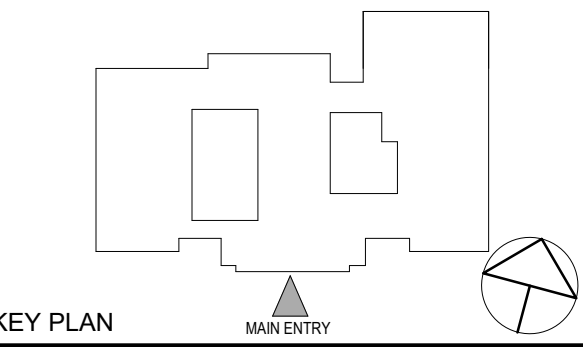
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NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



1 FIRE ALARM FIRST FLOOR PLAN
SCALE: 1/16" = 1'-0"
NORTH



KEY PLAN

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**FIRE ALARM FIRST
FLOOR NEW WORK
PLAN**

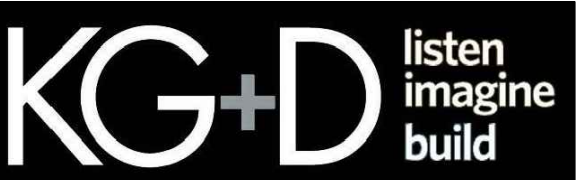
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Sheet Number
E401

**TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS**

TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709

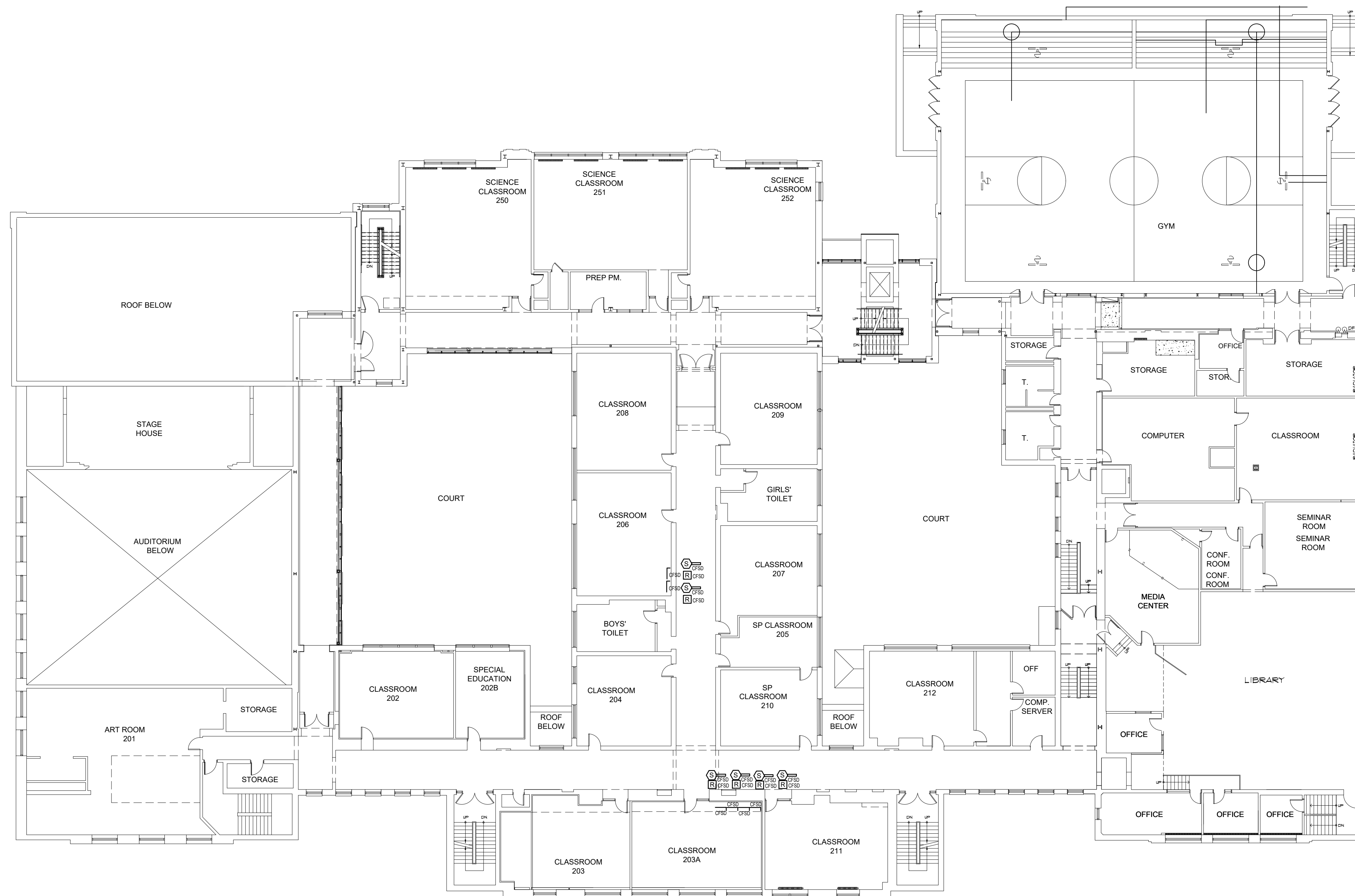


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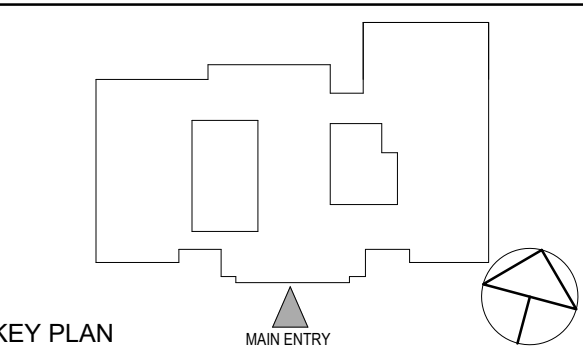
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66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



1 FIRE ALARM SECOND FLOOR PLAN
SCALE: 1/16" = 1'-0"
NORTH



KEY PLAN

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No.	Date	Issue
1	12/04/2023	ISSUED FOR BID

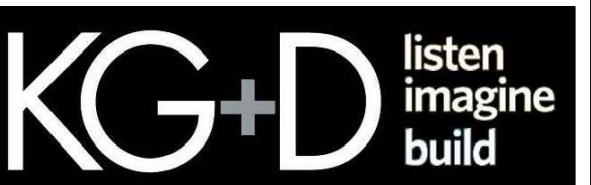
**FIRE ALARM SECOND
FLOOR NEW WORK
PLAN**

Job No.	Date
NKGD0239.00	12/04/2023
Scale	Drawn / Checked
AS NOTED	JJV/B ML/DS

Sheet Number

E402

TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS
TUCKAHOE UNION FREE
SCHOOL DISTRICT
65 SIWANOY BLD
EASTCHESTER, N.Y. 10709

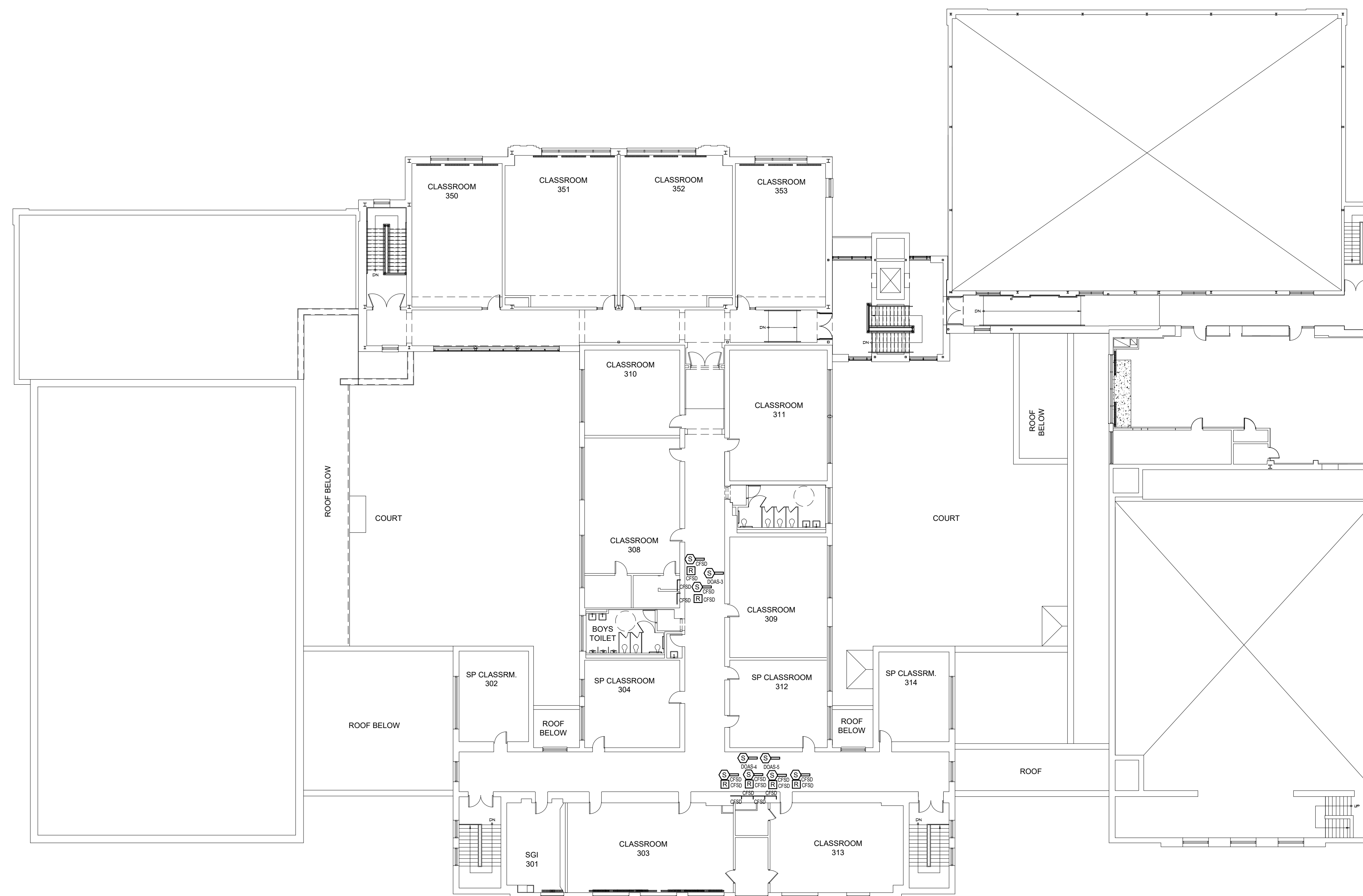


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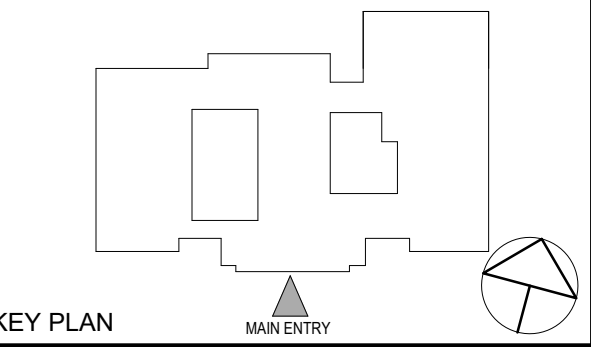
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NY SED PROJECT CONTROL NO.
66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



1 FIRE ALARM THIRD FLOOR NEW WORK PLAN
SCALE: 1/16" = 1'-0"
NORTH



KEY PLAN

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FIRE ALARM THIRD FLOOR NEW WORK PLAN

Job No. NKGD0239.00 Date 12/04/2023

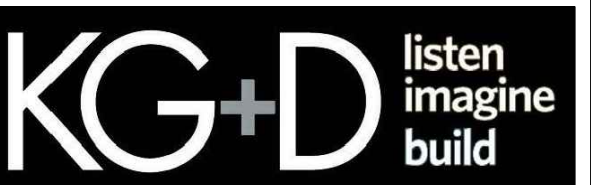
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Sheet Number

E403

TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS
TUCKAHOE UNION FREE
SCHOOL DISTRICT

65 SIWANOY BLD
EASTCHESTER, N.Y. 10709



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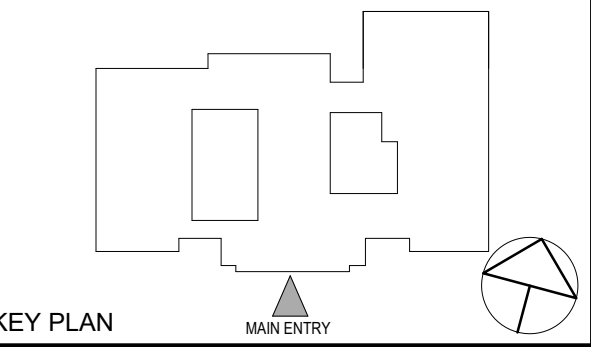
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CONSTRUCTION DOCUMENTS



1 FIRE ALARM ROOF NEW WORK PLAN
SCALE: 1/16" = 1'-0"
NORTH



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FIRE ALARM ROOF NEW WORK PLAN

Job No. NKGD0239.00 Date 12/04/2023

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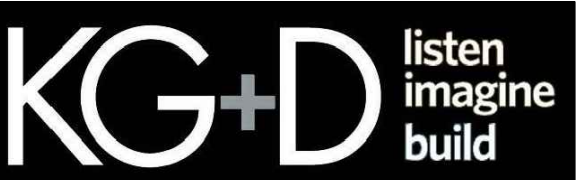
Sheet Number

E404

TUCKAHOE
MIDDLE/HIGH
SCHOOL
ALTERATIONS

TUCKAHOE UNION FREE
SCHOOL DISTRICT

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66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS

EX. LPSP1 PANEL SCHEDULE						
MAIN RATING: 125A		MAIN C.B.: 100A				
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	EX. REC - SECURITY 109C	20	1	2	15	EX. ACC-1
3	EX. LTG - SECURITY 109C	20	1			
5	EX. DOOR RELEASE VESTIBULE V-1	20	1	1	20	EX. REC - ACC-1
7	EX. MOTORIZED DAMPER	15	1	1	20	EX. REC - BATHROOM 109D
9	EX. JBOX - TEACHER'S ROOM	20	1	1	20	EX. REC - TEACHER'S ROOM
11	EX. REC - TEACHER'S ROOM	20	1	2	15*	VRF, AC 2-1 & AC 2-2 - 1ST FLR
13	AC 1-1 & AC 1-2 - 1ST FLR	15*	2			
15				1	20#	HVAC CONTROLS
17	AC 1-3 & AC 1-4 - 1ST FLR	15*	2	1	20#	HVAC CONTROLS
19				1	20#	HVAC CONTROLS
21				1	20#	CFSDS
23						
25	EX. SPARE	20	1	1	20	EX. SPARE
27	EX. SPARE	20	1	1	20	EX. SPARE
29	EX. SPARE	20	1	1	20	EX. SPARE

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:
1. * - CONTRACTOR SHALL PROVIDE 2P-15A CB.
2. # - CONTRACTOR SHALL PROVIDE 1P-20A CB.
3. @ - CONTRACTOR SHALL EXTEND BRANCH CIRCUITRY TO NEW PANELBOARD LOCATION, UON.

PP3 PANEL SCHEDULE						
MAIN RATING: 225A		MAIN C.B.: 150A		KAIC RATING: 22KAIC		
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	2ND FLR - AC 3-1/AC 3-2/AC 3-3/	15	2	2	15	3RD FLR - AC 1-8/AC 1-9/AC 1-10/
3	AC 3-4 & VRF					AC 1-11
5	2ND FLR - AC 3-5/AC 3-6/AC 3-7/	15	2	2	15	3RD FLR - AC 2-8/AC 2-9/AC 2-10/
7	AC 3-8 & VRF					AC 2-11
9	2ND FLR - AC 1-5/AC 1-6/ AC 1-7	15	2	2	15	3RD FLR - AC 3-9/AC 3-10/ AC 3-11
11	AC 2-3					& VRF
13	2ND FLR - AC 2-4/AC 2-5/AC 2-6	15	2	2	15	3RD FLR - AC 3-12/AC 3-13/AC 3-14
15	AC 2-7 & VRF					& VRF
17	HVAC CONTROLS	20	1	-	-	-
19	HVAC CONTROLS	20	1	1	20	2ND FLR - CFSD
21	HVAC CONTROLS	20	1	1	20	2ND FLR - CFSD
23	HVAC CONTROLS	20	1	1	20	3RD FLR - CFSD
25	HVAC CONTROLS	20	1	1	20	3RD FLR - CFSD
27				2	25#	EX. LOAD
29	EX. LOAD	30@	3			
31				1	20*	EX. LOAD
33	EX. LOAD	25#	2	2	20#	EX. LOAD
35						
37	EX. LOAD	20*	1	2	15#	EX. LOAD
39	EX. LOAD	20*	1			
41	EX. LOAD	20*	1	1	15*	EX. LOAD
43	EX. LOAD	15*	1	1	15*	EX. LOAD
45	EX. LOAD	15*	1	1	15*	EX. LOAD
47	EX. LOAD	15*	1	1	15*	EX. LOAD
49	EX. LOAD	15*	1	-	-	-
51				-	-	-
53	SPARE	20	1	1	20	SPARE
55	SPARE	20	1	1	20	SPARE
57	SPARE	20	1	1	20	SPARE
59	SPARE	20	1	1	20	SPARE

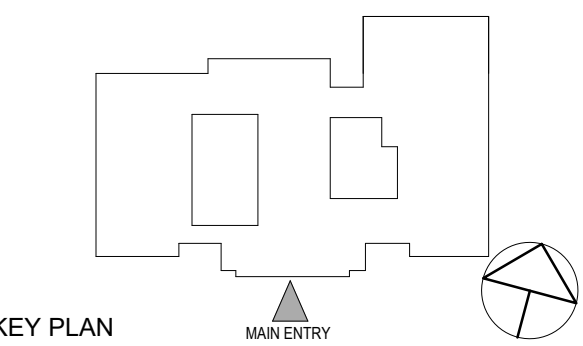
LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.

NOTES:
1. * - CONTRACTOR SHALL PROVIDE 30' OF 2-#12 & 1-#12 GND IN 3/4" C TO EXTEND EX. BRANCH CIRCUITRY AS REQUIRED FOR RELOCATED REPLACEMENT PANELBOARD.
2. # - CONTRACTOR SHALL PROVIDE 30' OF 2-#10 & 1-#10 GND IN 3/4" C TO EXTEND EX. BRANCH CIRCUITRY AS REQUIRED FOR RELOCATED REPLACEMENT PANELBOARD.
3. @ - CONTRACTOR SHALL PROVIDE 30' OF 3-#10 & 1-#10 GND IN 3/4" C TO EXTEND EX. BRANCH CIRCUITRY AS REQUIRED FOR RELOCATED REPLACEMENT PANELBOARD.

EX. PP15 PANEL SCHEDULE						
MAIN RATING: 225A		MAIN C.B.: 150A				
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1						2
3	EX. LOAD	45	3	3	45	EX. LOAD
5						4
7				1	20	EX. LOAD
9	EX. LOAD	20	3	1	20	EX. LOAD
11				1	20	EX. LOAD
13	EX. LOAD	20	1	1	15	EX. LOAD
15	EX. LOAD	20	1	1	20	EX. LOAD
17	SPARE	20	1	1	20	EX. LOAD
19	EX. LOAD	20	1	1	20	EX. LOAD
21	EX. LOAD	20	1	1	20	EX. LOAD
23	EX. LOAD	20	1	1	20	EX. LOAD
25	SPARE	25	1	1	20	EX. LOAD
27	EX. LOAD	20	1	1	20	EX. LOAD
29	SPARE	20	1	1	20	SPARE
31	EX. LOAD	15	1	1	20	SPARE
33	SPARE	15	1	1	20*	CENTRAL SYSTEM CONTROLLER
35	SPACE					SPACE
37	SPACE					SPACE
39	EX. LOAD - STOVE	50	1			SPACE
41	EX. LOAD - STOVE	50	1			SPACE

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:
1.) * - CONTRACTOR SHALL PROVIDE A 1P-20A CB.
2.) PANELBOARD IS TYPE EATON PRL1A.



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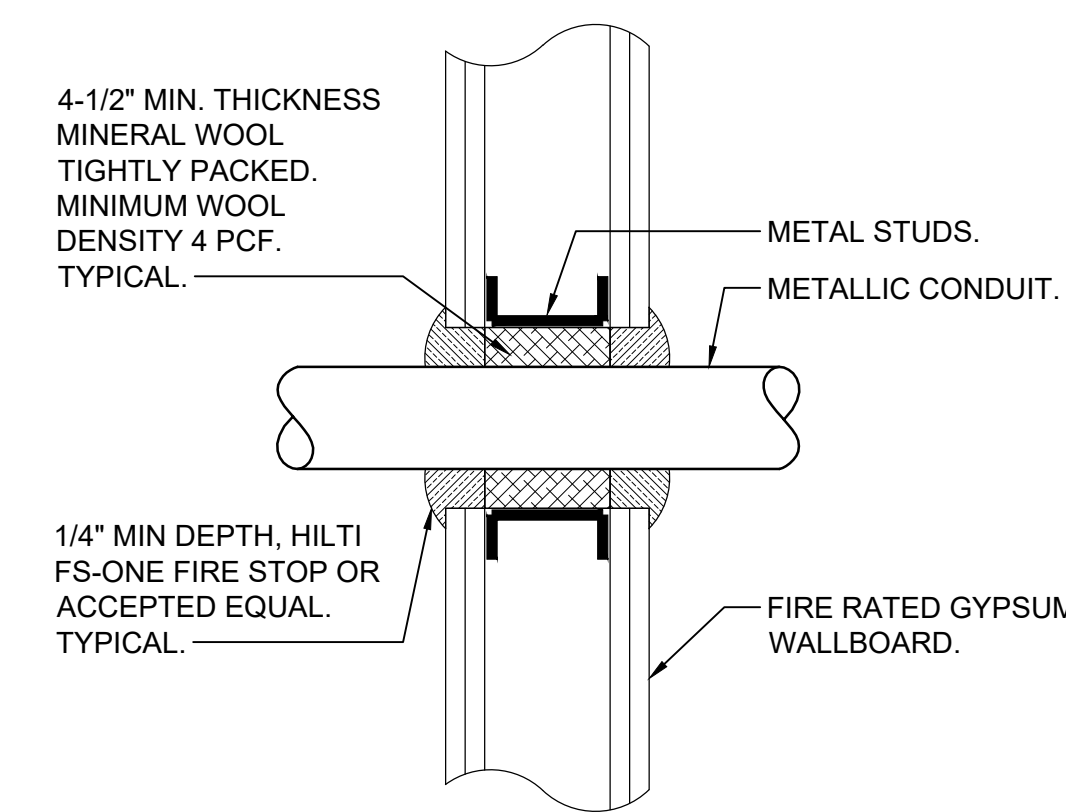
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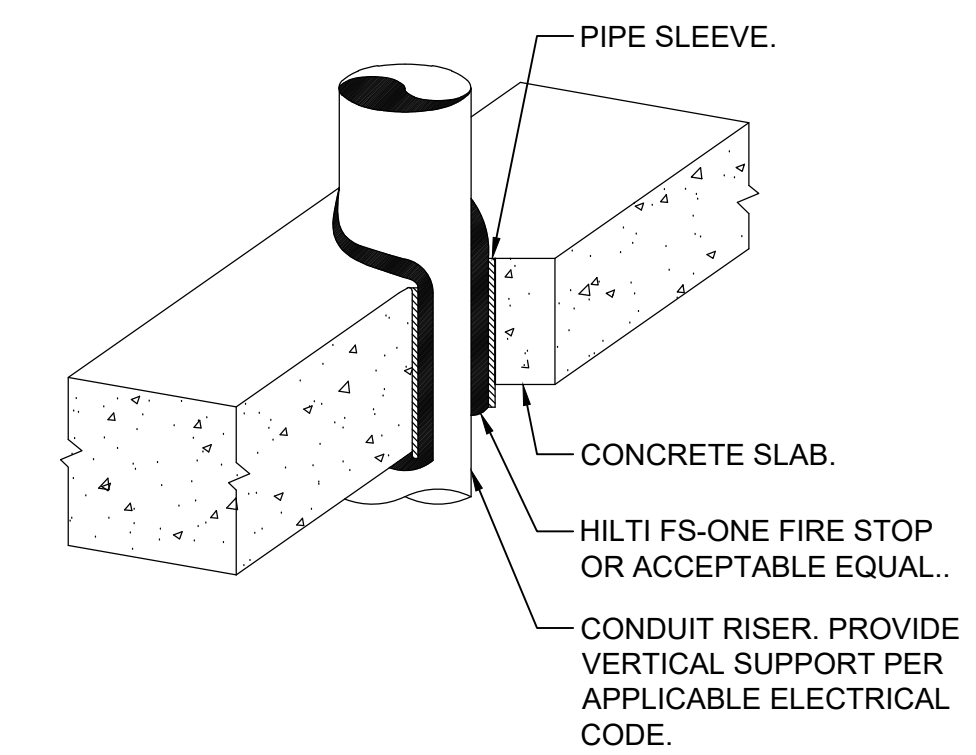
ELECTRICAL
SCHEDULES

Job No. NKGD0239.00 Date 12/04/2023
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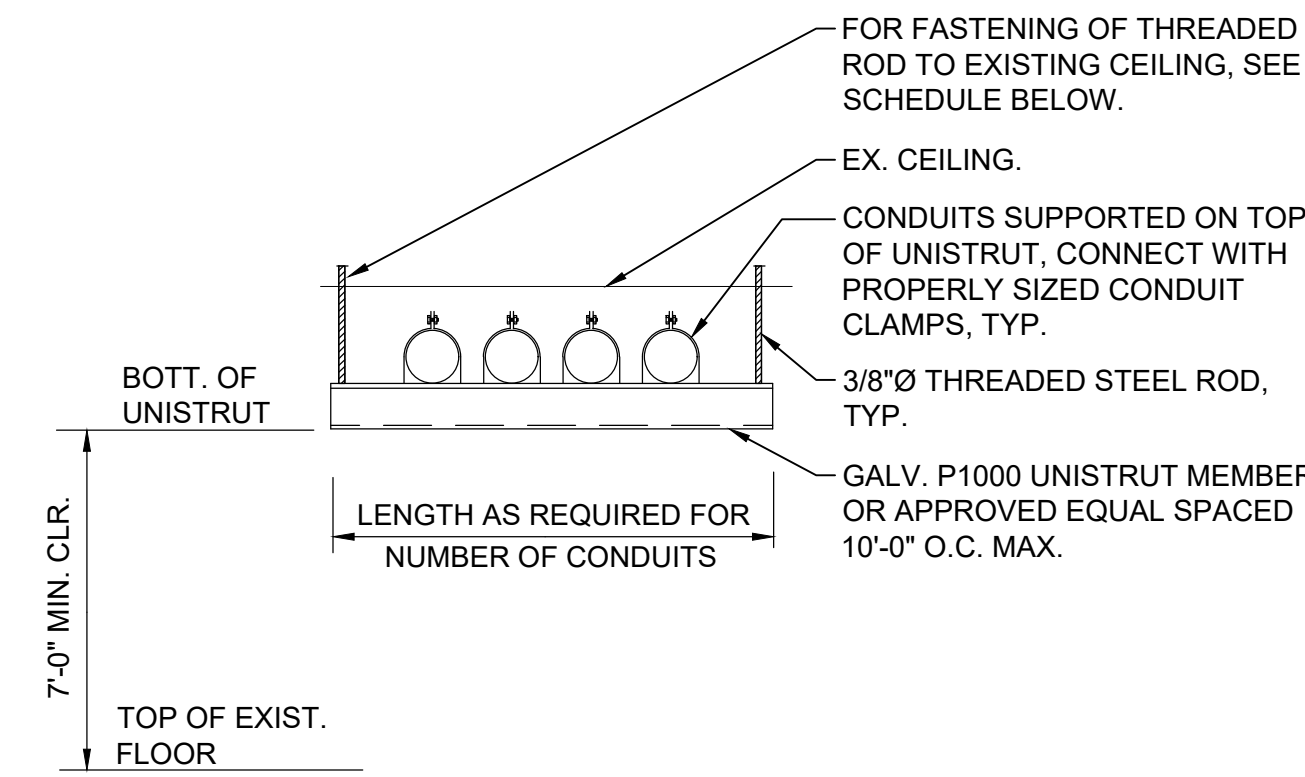
Sheet Number
E601



8 TYPICAL FIRE RATED GYPSUM WALL
CONDUIT PENETRATION DETAIL
SCALE: NONE

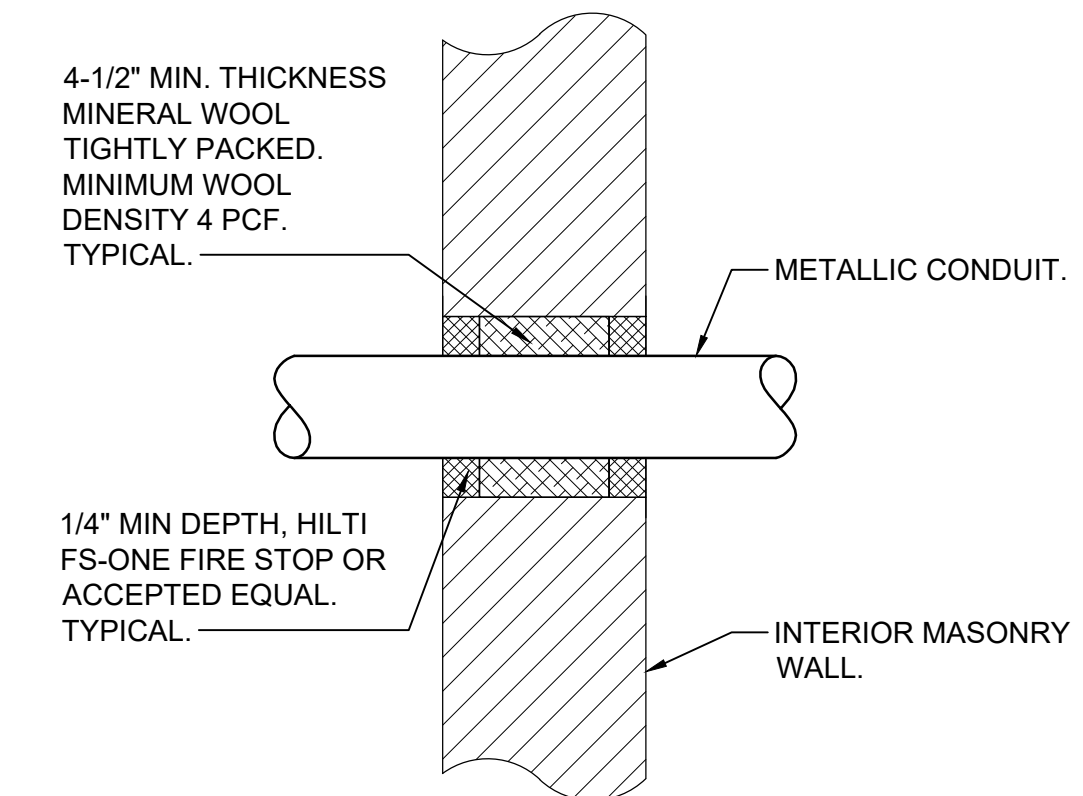


4 TYPICAL VERTICAL CONDUIT
PENETRATION DETAIL
SCALE: NONE

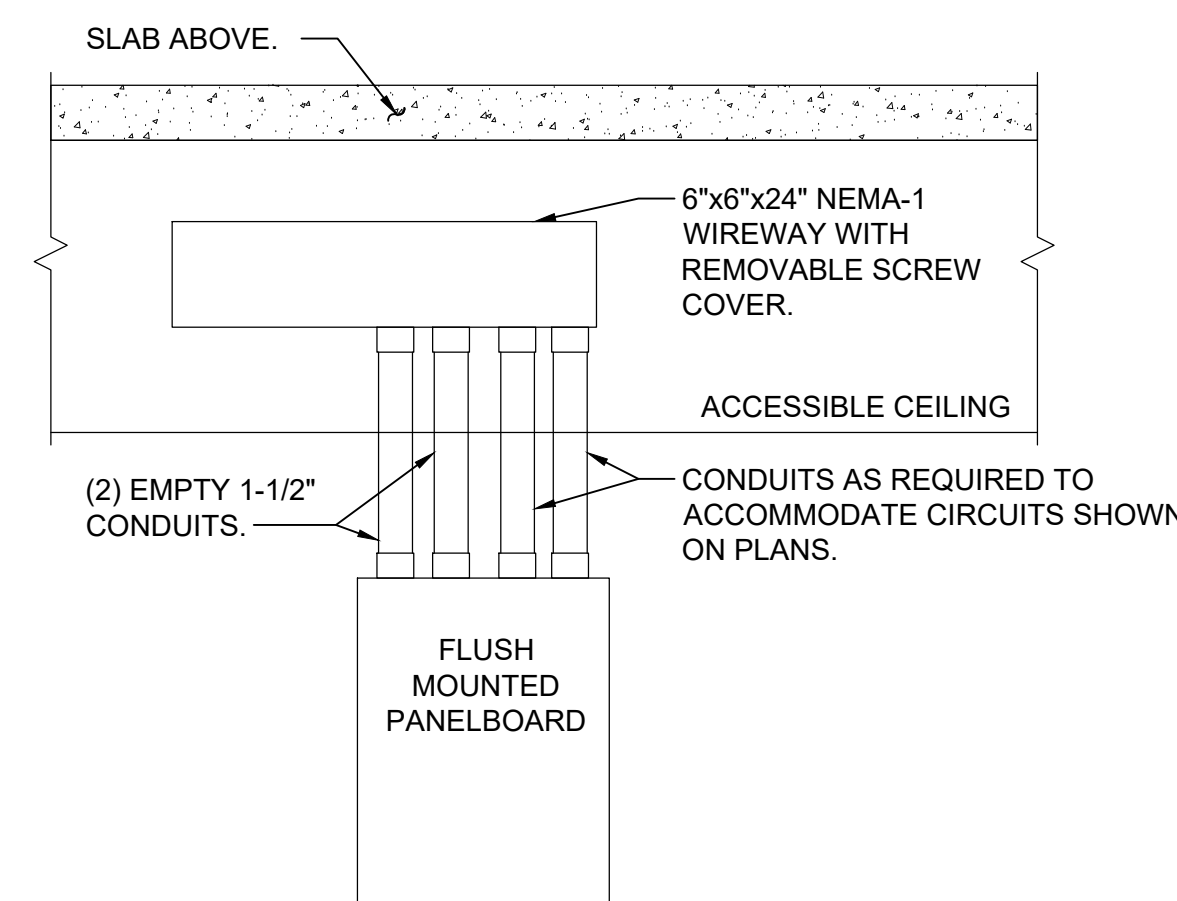


CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

7 TRAPESE SUPPORT DETAIL
SCALE: NONE

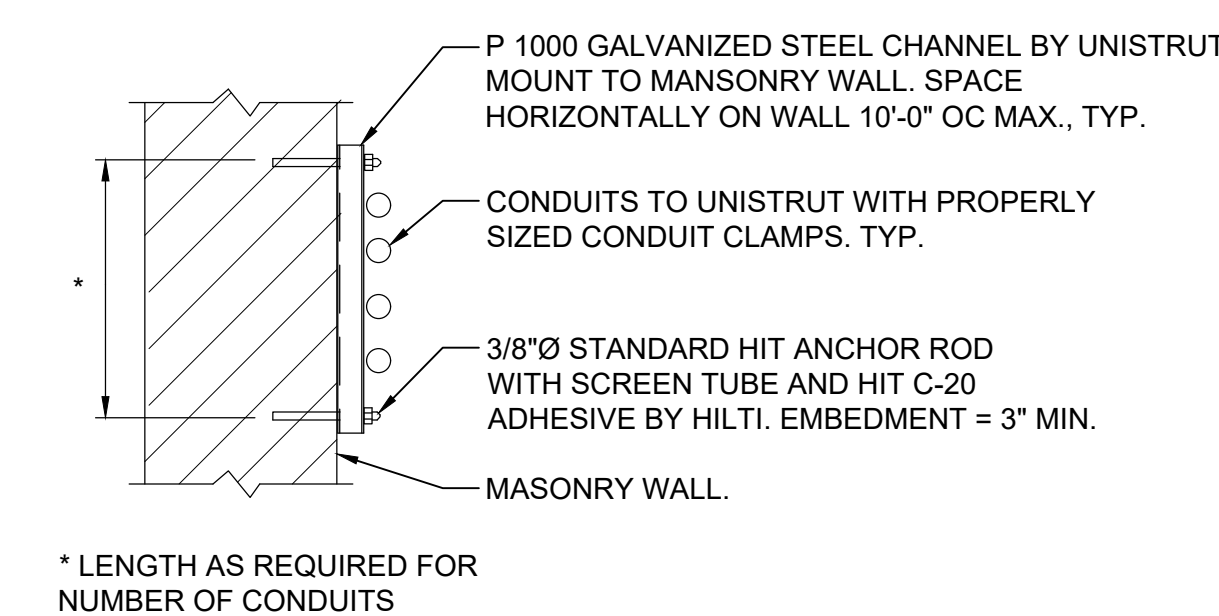


3 TYPICAL INTERIOR MASONRY WALL
CONDUIT PENETRATION DETAIL
SCALE: NONE



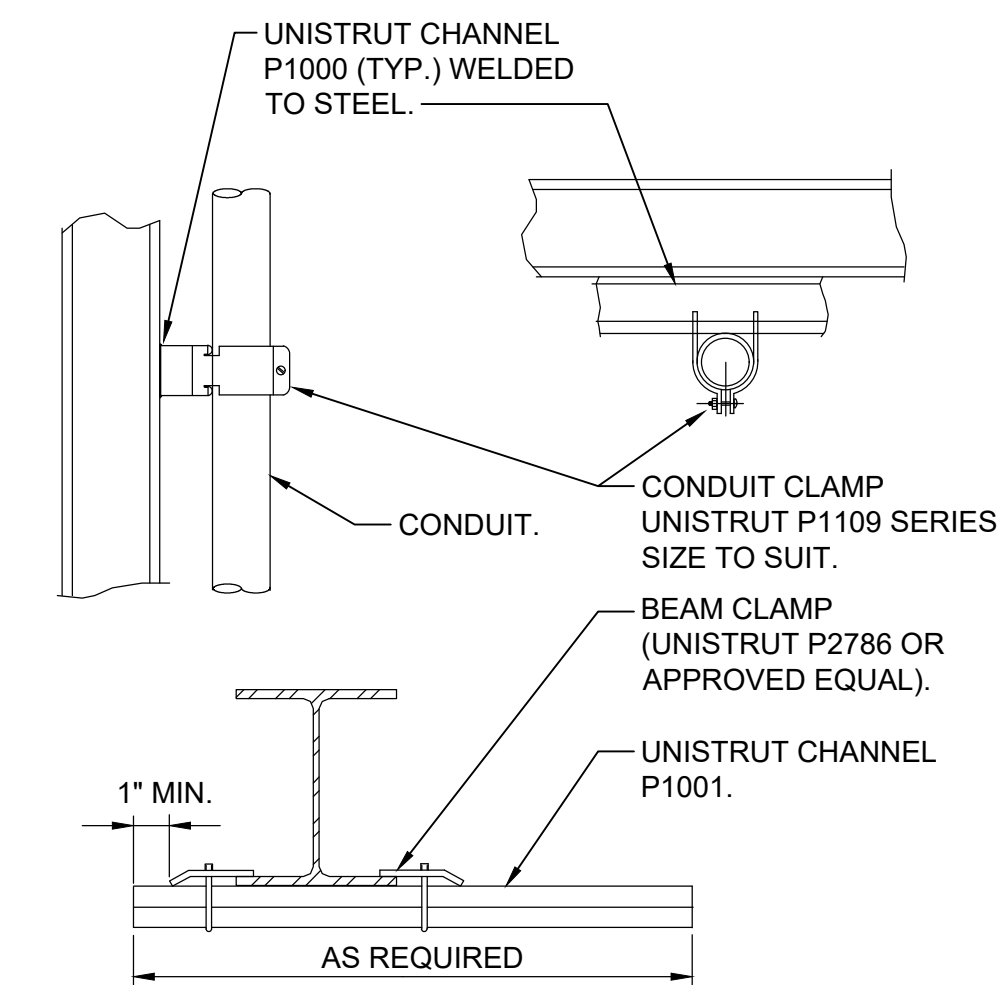
- NOTES:
- IN ADDITION TO CONDUITS FOR CIRCUITS INSTALLED AS PER PLANS, INSTALL ADDITIONAL EMPTY CONDUITS AS INDICATED ABOVE FOR FUTURE CIRCUITS.
 - CONDUITS BETWEEN PANELBOARD AND WIREWAY TO BE CONCEALED WITHIN PARTITION.

10 FLUSH MOUNTED PANELBOARD DETAIL
SCALE: NONE

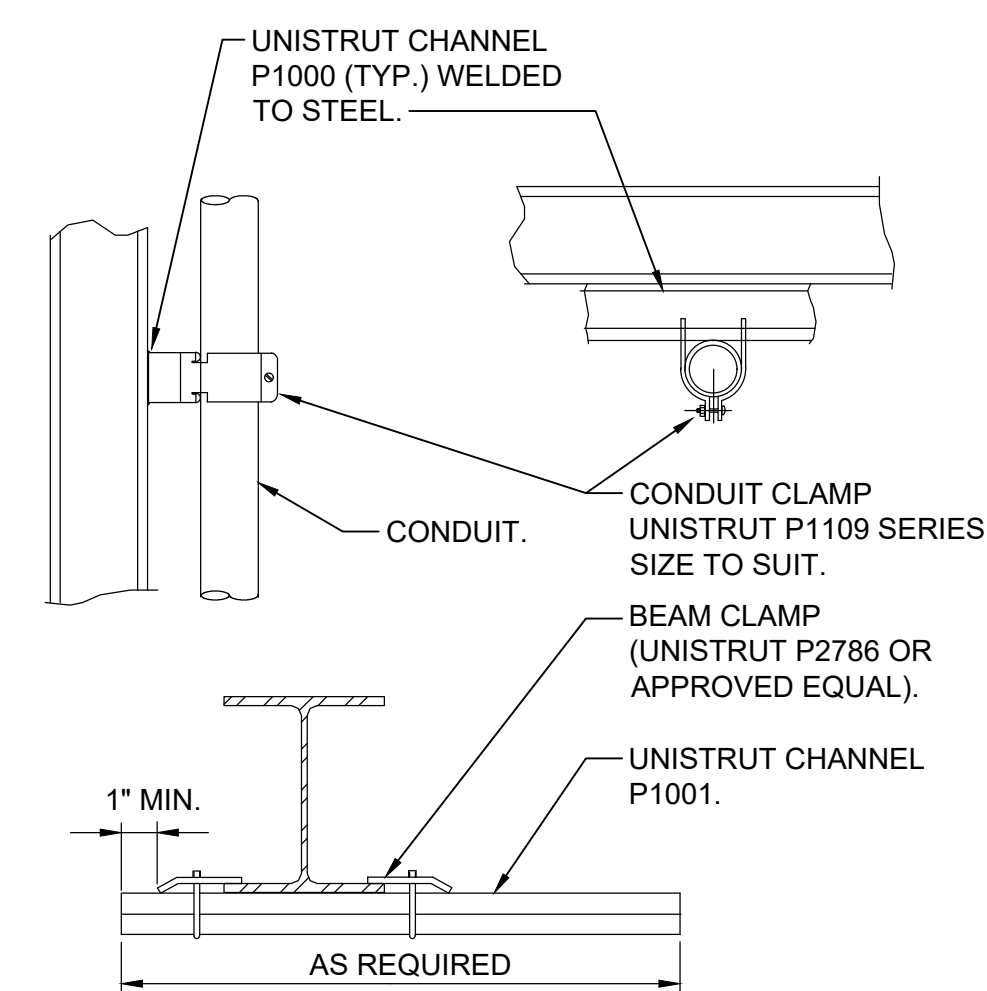


* LENGTH AS REQUIRED FOR NUMBER OF CONDUITS

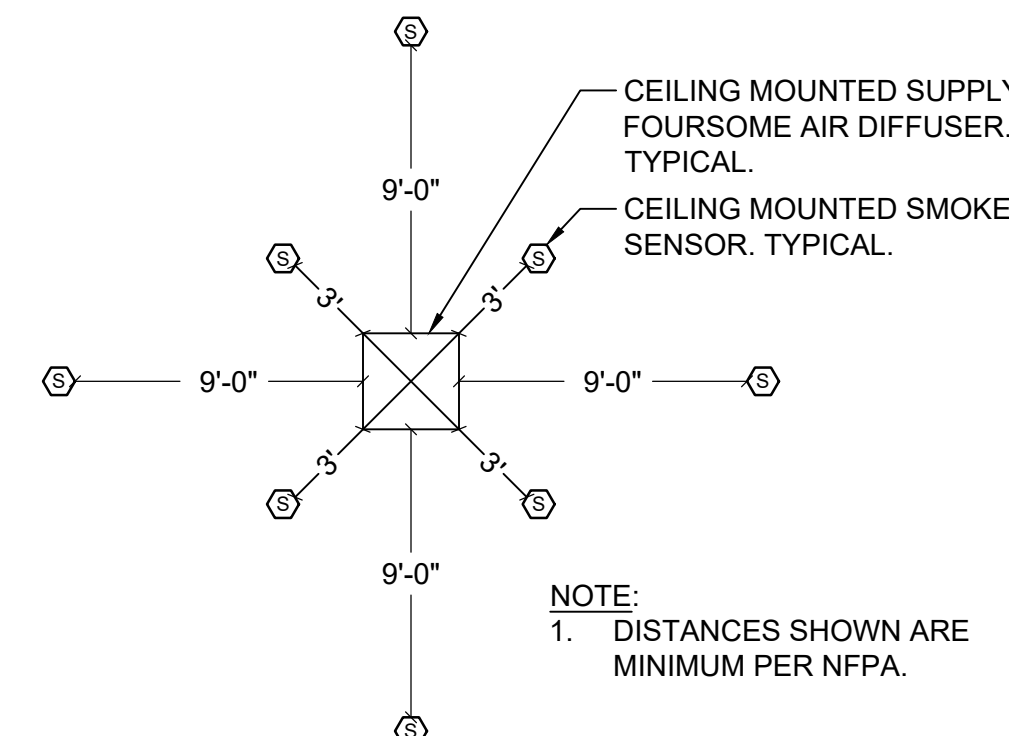
6 TYPICAL CONDUIT SUPPORT
ON MASONRY DETAIL
SCALE: NONE



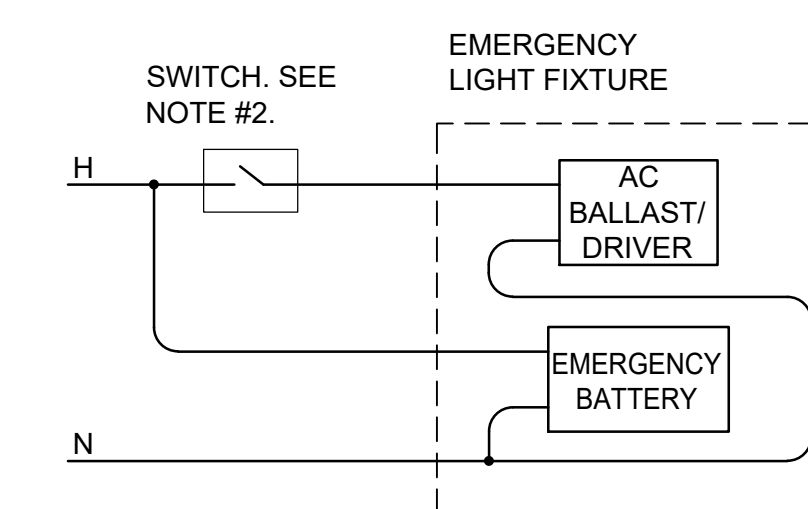
2 CONDUIT SUPPORTED FROM
STRUCTURAL STEEL DETAIL
SCALE: NONE



9 CONDUIT SUPPORTED FROM
STRUCTURAL STEEL DETAIL
SCALE: NONE

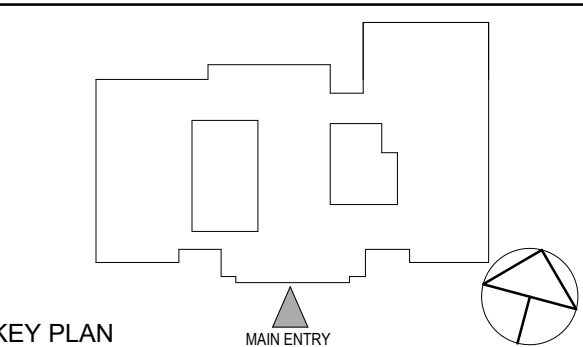


5 CEILING MOUNTED SMOKE DETECTOR
LOCATION WITH RESPECT TO AIR DIFFUSER
SCALE: NONE



- NOTES:
- THE CONNECTION TO THE LAMPS IS NOT SHOWN - FOLLOW MANUFACTURER WIRING DIAGRAMS.
 - "SWITCH" REPRESENTS A SINGLE POLE SWITCH, A SET OF CONTACTS, A COMBINATION OF 3 WAY AND 4 WAY SWITCHES, ETC. SEE DRAWINGS FOR ACTUAL SWITCH CONFIGURATION.

1 SWITCHED EMERGENCY
FIXTURE WIRING DIAGRAM
SCALE: NONE



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Professional Seal

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ELECTRICAL DETAILS

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