

# Tuckahoe Union Free School District

## WILLIAM E. COTTLE ELEMENTARY SCHOOL

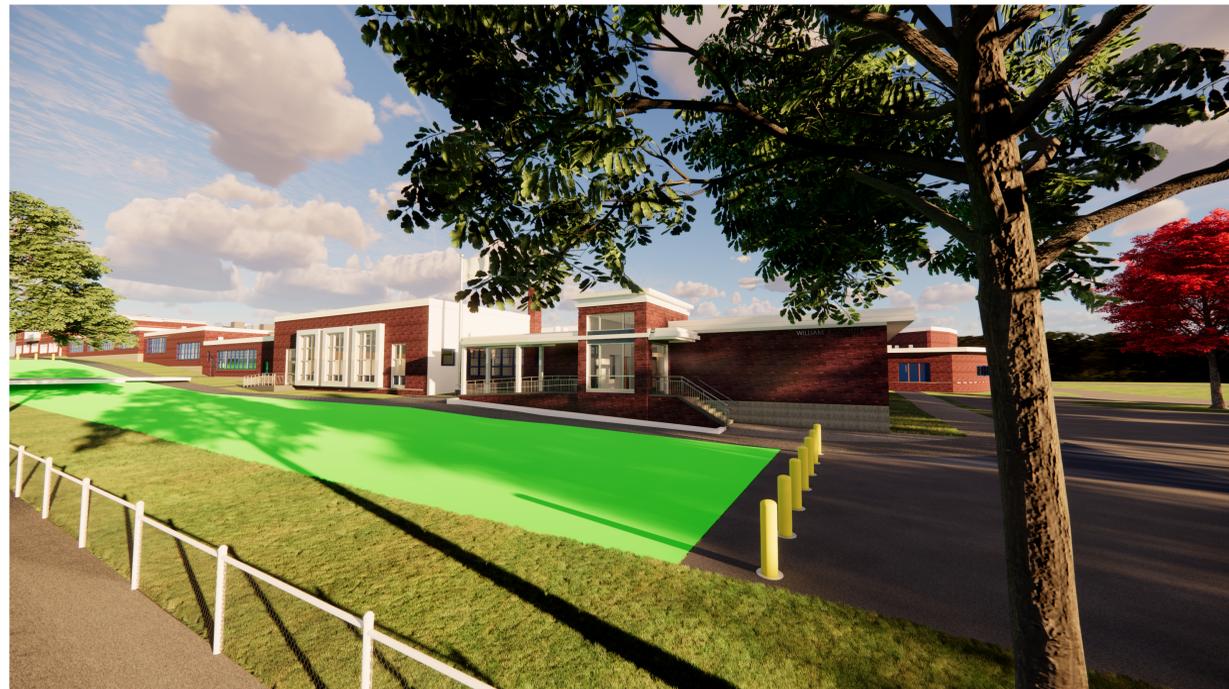
### ADDITIONS & ALTERATIONS

2 Siwanoy Boulevard  
Eastchester, NY 10709

CONSTRUCTION DOCUMENTS 12/04/2023

**WILLIAM E. COTTLE  
ELEMENTARY SCHOOL  
ADDITIONS &  
ALTERATIONS**  
NY SED Project Control No.  
**66-03-02-03-0-001-020**  
KG+D Project No.  
**2021-1052**  
**DESIGN TEAM**

## CONSTRUCTION DOCUMENTS



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**1 - PROJECT INFORMATION**

OWNER: TUCKAHOE UNION FREE SCHOOL DISTRICT  
65 SIWANYO BLVD  
EASTCHESTER, NEW YORK 10709

TELEPHONE: 914.337.6600

PROJECT LOCATION: WILLIAM E COTTLE ELEMENTARY SCHOOL  
2 SIWANYO BLVD  
EASTCHESTER, NEW YORK 10709

TYPE OF PROJECT: ADDITIONS & ALTERATIONS

NYSED NUMBER: 66-03-02-03-0-001-021

PROJECT COMMENCEMENT: SPRING 2024

PROJECT COMPLETION: FALL 2024

APPLICABLE CODES: 2020 UNIFORM FIRE PREVENTION AND BUILDING CODE  
2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE  
MANUAL OF PLANNING STANDARDS - 1998 THE UNIVERSITY OF THE STATE OF NEW YORK THE STATE EDUCATION DEPARTMENT

WORK AREAS: ALTERATION LEVEL 1  
EXISTING AREAS TO REMAIN

USE & OCCUPANCY CLASSIFICATION: EDUCATIONAL (E)

EXISTING BUILDING CONSTRUCTION CLASS: TYPE IIB

NEW ADDITIONS CONSTRUCTION CLASS: NA

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

**CONSTRUCTION CLASSIFICATION (6 SEPARATE FIRE AREAS):**

**FIRE AREA 1 (EXISTING BUILDING)**  
TYPE IIB (NON-COMBUSTIBLE, UNPROTECTED)  
HEIGHT IN STORIES = 1  
ALLOWABLE HEIGHT IN STORIES = 2  
AREA OF BUILDING  
TOTAL BUILDING AREA = 56,987 SF (EXISTING NON-CONFORMING)  
TOTAL ALLOWABLE AREA = 25,230 SF

**FIRE AREA 2 (EXISTING BUILDING - 1992 ADDITION)**  
TYPE IIB (NON-COMBUSTIBLE, UNPROTECTED)  
HEIGHT IN STORIES = 1  
ALLOWABLE HEIGHT IN STORIES = 2  
AREA OF BUILDING  
TOTAL BUILDING AREA = 9,623 SF  
TOTAL ALLOWABLE AREA = 23,925 SF

**FIRE AREA 3 (STAIR TOWER 1 EXISTING 2020 ADDITION)**  
NON-OCCUPIABLE APPENDAGE (EXIT STAIR) PER NYS EBC 1102.2  
TYPE IIB (NON-COMBUSTIBLE, UNPROTECTED)  
HEIGHT IN STORIES = 2  
ALLOWABLE HEIGHT IN STORIES = 2  
AREA OF BUILDING  
TOTAL BUILDING AREA = 1,084 SF  
TOTAL ALLOWABLE AREA = 14,500 SF

**FIRE AREA 4 (STAIR TOWER 2 EXISTING 2020 ADDITION)**  
NON-OCCUPIABLE APPENDAGE (EXIT STAIR) PER NYS EBC 1102.2  
TYPE IIB (NON-COMBUSTIBLE, UNPROTECTED)  
HEIGHT IN STORIES = 2  
ALLOWABLE HEIGHT IN STORIES = 2  
AREA OF BUILDING  
TOTAL BUILDING AREA = 854 SF  
TOTAL ALLOWABLE AREA = 14,500 SF

**FIRE AREA 5 (VESTIBULE EXISTING 2020 ADDITION)**  
TYPE IIB (NON-COMBUSTIBLE, UNPROTECTED)  
HEIGHT IN STORIES = 1  
ALLOWABLE HEIGHT IN STORIES = 2  
AREA OF BUILDING  
TOTAL BUILDING AREA = 286 SF  
TOTAL ALLOWABLE AREA = 14,500 SF

**FIRE AREA 6 (2ND FLOOR CLASSROOM EXISTING 2020 ADDITION)**  
TYPE IIB (NON-COMBUSTIBLE, UNPROTECTED)  
HEIGHT IN STORIES = 1  
ALLOWABLE HEIGHT IN STORIES = 2  
AREA OF BUILDING  
TOTAL BUILDING AREA = 9,668 SF  
TOTAL ALLOWABLE AREA = 23,925 SF

AREA MODIFICATIONS (EXISTING BUILDING):  
Aa = [At + (NS x If)] x Sa  
Aa = [14,500 + (14,500 x .74)] x 1  
Aa = [14,500 + 10,730] x 1  
Aa = [25,230] x 1  
Aa = 25,230 sf

FRONTAGE INCREASE:  
If = [F/P - 0.25] (W/30)  
If = [1565/1579 - 0.25] (30/30)  
If = [.99 - 0.25] (1)  
If = .74 (1)  
If = .74

AREA MODIFICATIONS (CLASSROOM ADDN):  
Aa = [At + (NS x If)] x Sa  
Aa = [14,500 + (14,500 x .65)] x 1  
Aa = [14,500 + 9,425] x 1  
Aa = [23,925] x 1  
Aa = 23,925 sf

FRONTAGE INCREASE:  
If = [F/P - 0.25] (W/30)  
If = [408/452 - 0.25] (30/30)  
If = [.9 - 0.25] (1)  
If = .65 (1)  
If = .65

**EGRESS TRAVEL DISTANCE INFORMATION:**  
• AT ALL ROOMS 1500 SF AND UNDER THE DISTANCE TO AN EXIT IS LESS THAN 50 FT  
• CORRIDOR TRAVEL DISTANCES DO NOT EXCEED THE MAXIMUM 120 FT TO STAIR ENCLOSURE, 150 FT TO BUILDING EXIT  
• THERE ARE NO DEAD-END CORRIDORS (PRE-EXISTING OR NEW)  
• FIRE AREAS ARE SEPARATED WITH 2-HOUR RATED CONSTRUCTION

**2 - FIRE-RESISTANCE-RATED CONSTRUCTION**

NYS BC TABLES 508.2 / 706.4 / 707.3.10 / 1017.2

ASSEMBLY	FIRE-RESISTANCE RATING	LOCATION
FIRE BARRIER	2 HOURS	BETWEEN BUILDING AREAS (NEW & EXISTING)
FIRE PARTITION	2 HOURS	ELEVATOR MACHINE ROOM
	1 HOUR	CORRIDORS STAIR ENCLOSURES SMOKE STOPS
HORIZONTAL SEPARATION	2 HOURS	UL RATED G205 CEILING ASSEMBLY BETWEEN 1992 CLASSROOM ADDITION AND NEW CLASSROOM ADDITION

**3 - ACCESSIBILITY**

ACCESSIBILITY INFORMATION:	DWG SHOWN
ACCESSIBLE ROUTE	CC.2
ACCESSIBLE ENTRANCES	CC.2
PARKING FACILITIES	SITE PLAN
TOILET FACILITIES	CC.2
SIGNAGE	SPECIFICATIONS
VERTICAL ACCESS / ELEVATOR	CC.2
DOOR APPROACH CLEARANCES	
DOOR HARDWARE	SPECIFICATIONS

ALL WORK PERFORMED SHALL COMPLY WITH ANSI A117.1-09 - AMERICAN DISABILITIES ACT WHERE APPLICABLE

**4 - ENERGY CODE COMPLIANCE**

COUNTY:	WESTCHESTER
CLIMATE ZONE:	4
OPAQUE THERMAL ENVELOPE REQUIREMENTS	TABLE C402.1.3-4
ROOF: ATTIC AND OTHER	R-38
ROOF: INSULATION ENTIRELY ABOVE DECK	R-30 ci
WALLS - ABOVE GRADE: MASS	R-9.5ci
WALLS - ABOVE GRADE: METAL FRAMED	R-13 + R-7.5ci
WALLS - BELOW GRADE: MASS	R-7.5ci
FLOORS: MASS	R-10ci
SLAB ON GRADE FLOORS	R-10 FOR 24" BELOW
OPAQUE DOORS: SWINGING	U-0.37
VERTICAL FENESTRATION	TABLE 402.4
FIXED FENESTRATION	U-0.38
OPERABLE FENESTRATION	U-0.45
ENTRANCE DOORS	U-0.77
SHGC	U-0.40
SKYLIGHTS	TABLE 402.4
FACTOR	U-0.50
SHGC	U-0.40

**5 - GEN CONSTRUCTION NOTES**

- EXISTING EXITS AND EXIT PATHWAYS SHALL REMAIN CLEAR AND OPERABLE AT ALL TIMES
- THE EXISTING VENTILATION SYSTEM SHALL BE MAINTAINED AT ALL TIMES WHILE THE BUILDING IS OCCUPIED. NO WORK SHALL PROCEED NEAR OR AROUND EXISTING AIR INTAKE VENTS WHILE THE BUILDING IS OCCUPIED.
- FIRESTOPPING SHALL BE PROVIDED AT ALL CONCEALED SPACES ABOVE SUSPENDED CEILINGS AS REQUIRED.
- PROVIDE PANIC HARDWARE AT ALL EXIT DOORS AND INTERIOR CORRIDOR DOORS. PANIC HARDWARE SHALL BE COMPRISED OF FIRE EXIT BOLTS AND SHALL EXTEND HORIZONTALLY PAST HALF OF THE DOOR WIDTH AND SHALL BE MOUNTED BETWEEN 30" AND 40" A.F.F.
- THE AREAS BEING DISTURBED AS PART OF THIS PROJECT HAVE BEEN TESTED FOR HAZARDOUS MATERIALS AND ARE BEING ADDRESSED IN AN ABATEMENT PROJECT.

**6 - MEANS OF EGRESS**

EXIT TRAVEL DISTANCE	NYS BC TABLE 1017.2	200' MAX UNSPRINKLERED 250' MAX SPRINKLERED
SED MPS		150' TO EXTERIOR DOOR FROM CORRIDOR 120' TO STAIR ENCL. FROM CORRIDOR 50' TO EXIT FROM A ROOM
OCCUPANCY LOADS:		NYS BC TABLE 1004.5
CLASSROOMS		20 NET SF/PERSON
SHOPS & OTHER VOCATIONAL ROOMS		50 NET SF/PERSON
OFFICE AREAS		100 GROSS SF/PERSON
EXIT WIDTH		NYS BC TABLE 1005.3.1
STAIR WIDTH		.37'OCCUPANT UNSPRINKLERED
OTHER EGRESS COMPONENTS		.2'OCCUPANT UNSPRINKLERED
STAIR WIDTH		.2'OCCUPANT SPRINKLERED
OTHER EGRESS COMPONENTS		.15'OCCUPANT SPRINKLERED
CORRIDORS		NYS BC TABLE 1020.1
FIRE RESISTANCE RATING (NONSPRINKL.)		NY SED S107
FIRE RESISTANCE RATING (SPRINKLERED)		1 HOUR
WIDTH:		0 HOUR
MAIN CORRIDOR		8'-0" (CLEAR)
SECONDARY:		6'-0"
PASSAGEWAY:		44"

**7 - UNIFORM SAFETY STANDARDS FOR SCHOOL CONSTRUCTION & 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 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.

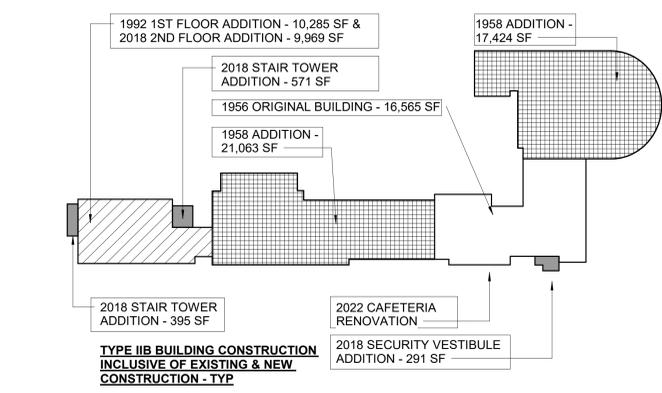
THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF-GASSING" OF VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS, FURNITURE, CARPETING, WALL COVERING, DRAPERY, ETC. ARE SCHEDULED, CURED OR VENTILATED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BEFORE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

LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE 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 INTERRUPTED 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.

SEE SPECIFICATIONS - VOLUME 1 DIVISION 01 GENERAL REQUIREMENTS, SECTION 011501 SPECIAL PROJECT REQUIREMENTS - EXCERPTS FORM 8 NYCRR SECTION 155.5 AS THEY ADDRESS "GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS"

**9 - SCOPE OF WORK/BUILDING AREA PLANS**



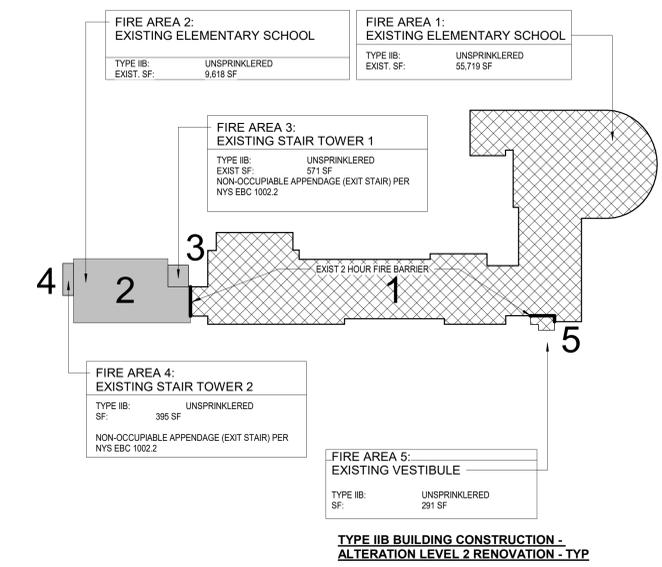
CC BUILDING EVOLUTION PLAN  
1" = 80'-0"

**FIRE AREAS**

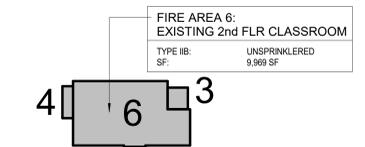
AREA	DESCRIPTION	TYPE	ST.	LEVEL	NEW	EXIST	DEMO	TOTAL
1	EXISTING ELEMENTARY SCHOOL	IIB	1	1ST FLOOR	-	55,719 SF	-	55,719 SF*
				1ST FLOOR CAFETERIA	-		-	
				SUBTOTAL	-	55,719 SF	-	55,719 SF*
2	EXISTING ELEMENTARY SCHOOL	IIB	1	1ST FLOOR	-	9,618 SF	-	9,618 SF
				SUBTOTAL	-	9,618 SF	-	9,618 SF
				3, 4, 6	EXISTING 2ND FLOOR CLASSROOM & STAIR TOWERS	IIB	2	1ST FLOOR
2ND FLOOR	-	10,637 SF	-	10,637 SF				
SUBTOTAL	-	11,606 SF	-	11,606 SF				
5	EXISTING VESTIBULE	IIB	1	1ST FLOOR	-	286 SF	-	286 SF
				SUBTOTAL	-		-	
				TOTAL	-	77,229 SF	-	77,229 SF

NOTE: TOTAL EQUALS ONE LARGE NON-CONFORMING BUILDING AREA

\* EXISTING MODIFIED NON-CONFORMING  
\*\* EXISTING MODIFIED



CC FIRE AREA PLAN - 1ST FLOOR  
1" = 80'-0"



CC FIRE AREA PLAN - 2ND FLOOR  
1" = 80'-0"

**LEGEND**

[Hatched Box]	ADDITION
[Cross-hatched Box]	AREA OF ALTERATION
[Solid Grey Box]	AREAS OF NO WORK

**WILLIAM E. COTTLE**  
ELEMENTARY SCHOOL  
ADDITIONS & ALTERATIONS  
TUCKAHOE UFSD  
2 Siwanoy Boulevard  
Eastchester, NY 10709



NY SED PROJECT CONTROL NO.  
66-03-02-03-0-001-020

**CONSTRUCTION DOCUMENTS**

Professional Seal

1 12/04/2023 ISSUED FOR BID

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Author Checker

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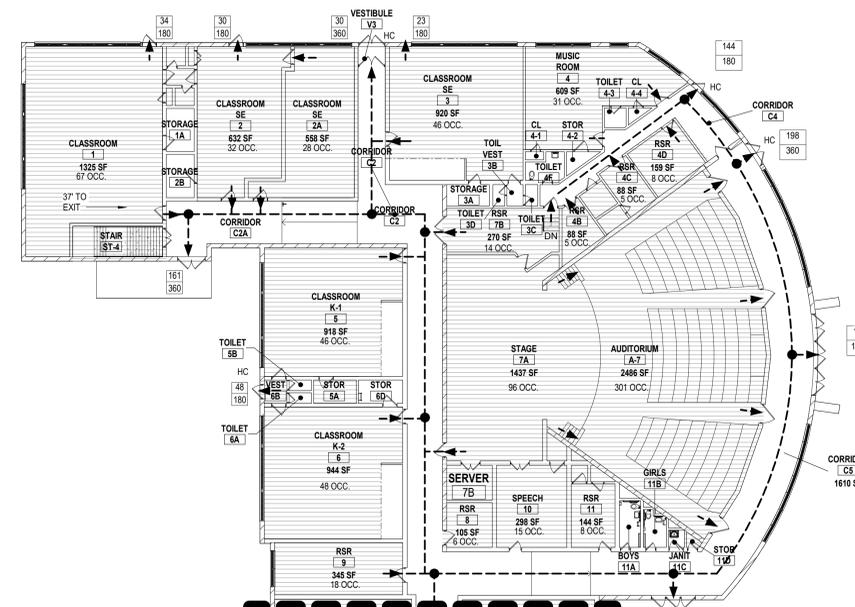
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Job No. 2021-1052 Date 11/11/2022

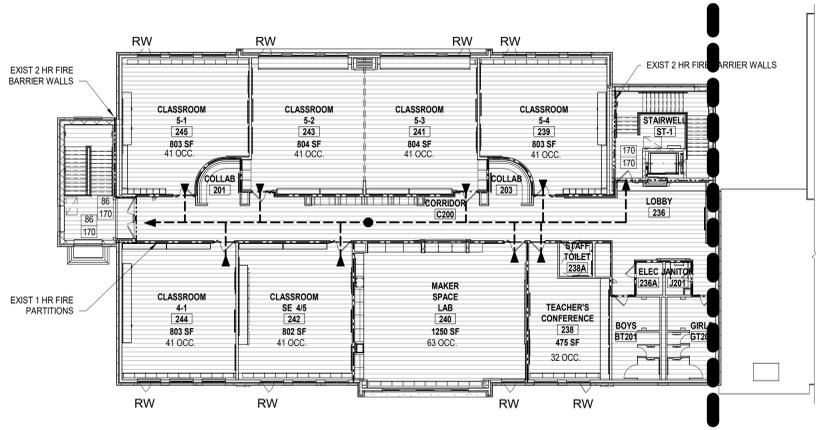
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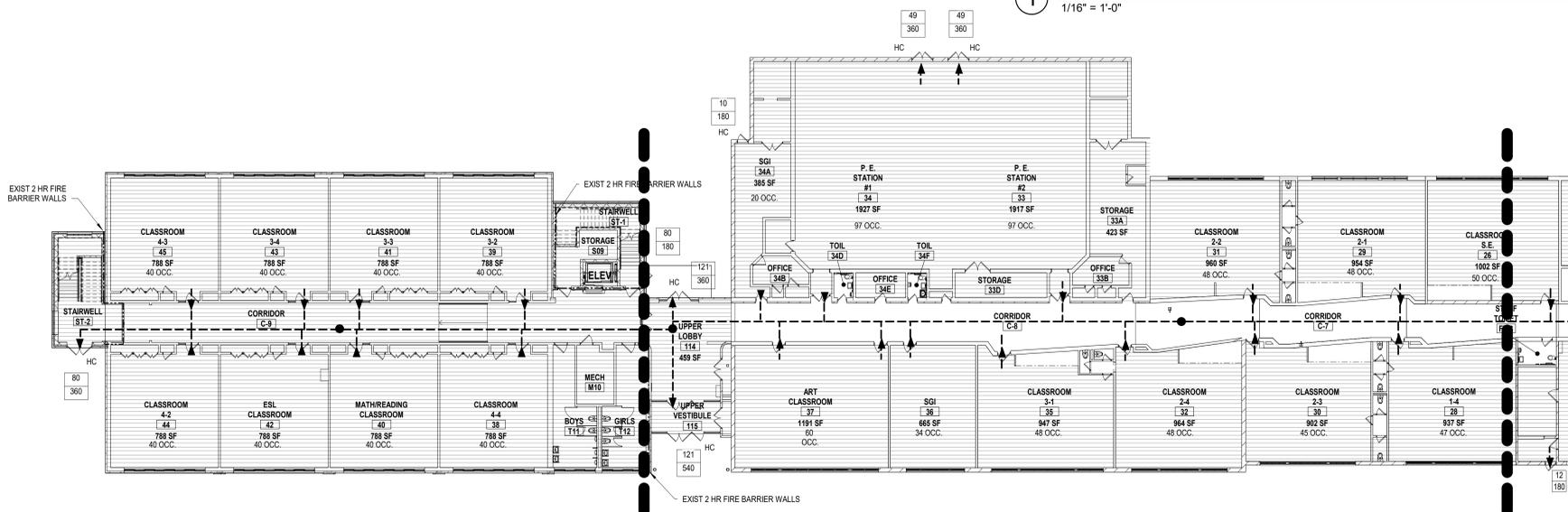
CC-1



**1** OVERALL BUILDING PLAN OCCUPANCY LOADS - WEST  
 1/16" = 1'-0"



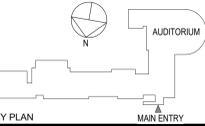
**3** OVERALL 2ND FLOOR OCCUPANCY PLAN  
 1/16" = 1'-0"



**2** OVERALL BUILDING PLAN OCCUPANCY LOADS - EAST  
 1/16" = 1'-0"

**SYMBOL LEGEND**

	2 HR FIRE BARRIER
	1 HR FIRE PARTITION
	MEANS OF EGRESS PATHWAY
	ACTUAL EGRESS OCCUPANCY LOAD MAXIMUM ALLOWABLE EGRESS OCCUPANCY LOAD AT DOOR
	EXISTING OCCUPANT LOAD REMAINS UNCHANGED - EXISTING EXITING REMAINS UNCHANGED
	ADA ACCESSIBLE EXTERIOR DOOR



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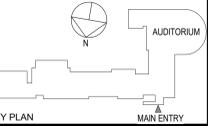
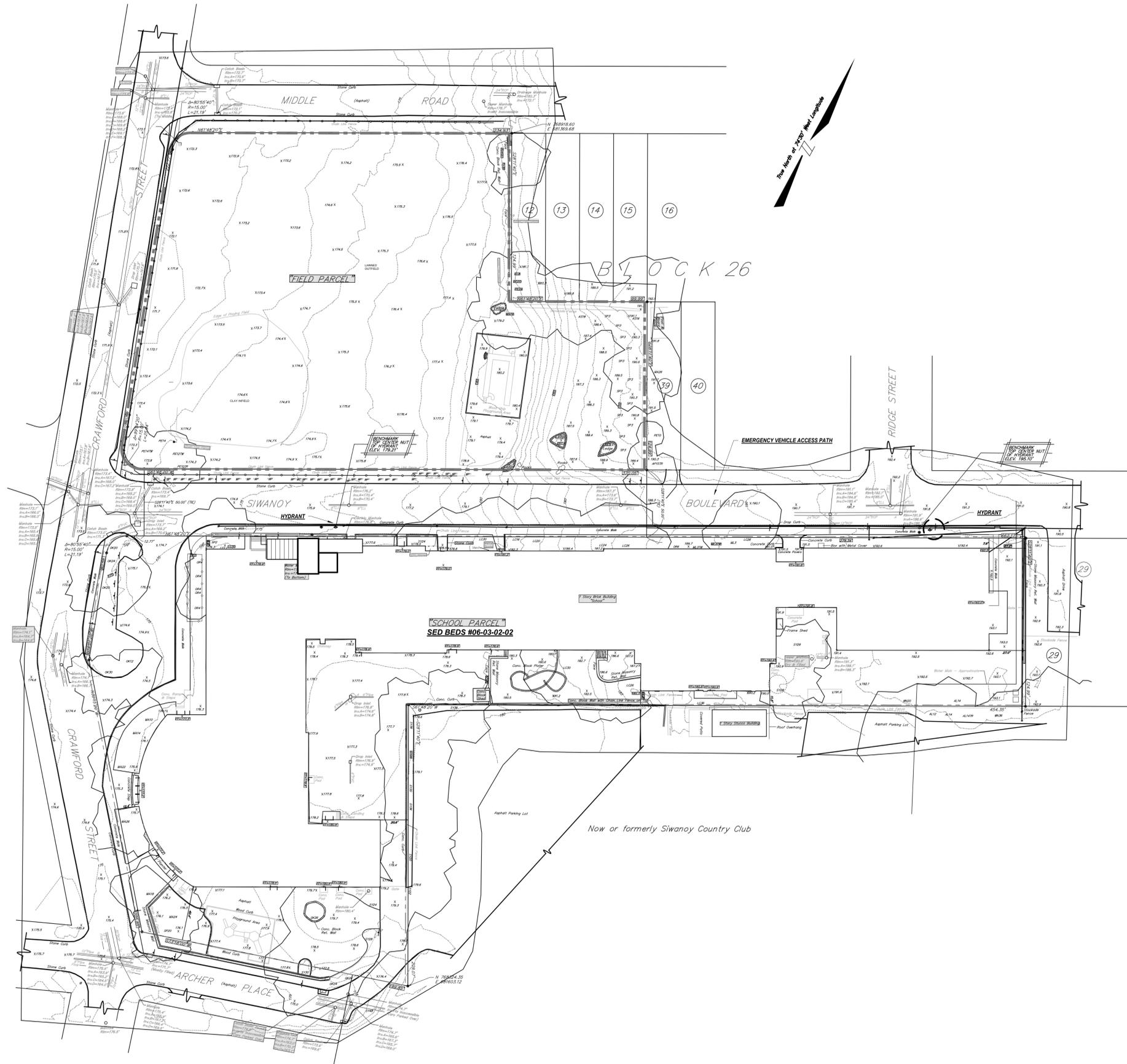
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Professional Seal

No.	Date	Issue

**CODE COMPLIANCE INFORMATION**

Job No.	2021-1052	Date	11/11/2022
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Professional Seal

No.	Date	Issue

Sheet Title  
**CODE COMPLIANCE PARTIAL SITE PLAN**

Job No. 2021-1052	Date 11/11/2022
Scale	Drawn / Checked Author / Checker

Sheet Number  
**CC-3**

1 CC-3 SITE DRAWING  
1" = 100'-0"

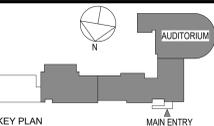
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**DEMOLITION NOTES**

- 1 DENOTES AREA OF NO MAJOR ARCHITECTURAL WORK. SPECIFIC WORK MAY BE SHOWN ELSEWHERE INCLUDING WORK THAT MAY REQUIRE ACCESS, PATCHING & RESTORATION. REFER TO STRUCTURAL & M.E.P. DWGS.
- 2 DENOTES AREA OF MINIMAL WORK IN CLASSROOMS & OTHER SMALLER ROOMS. REFER TO KEYNOTES FOR MORE INFORMATION.
- 3 DENOTES AREA OF MINIMAL WORK IN CORRIDORS. REFER TO KEYNOTES FOR MORE INFORMATION.
- 4 DENOTES AREA OF NEW WORK. REFER TO KEYNOTES AND ANNOTATIONS FOR MORE INFORMATION.
- 5 - - - - DENOTES EXISTING CONSTRUCTION TO BE DEMOLISHED (U.N.O.).
- 6 ——— DENOTES EXIST WALL TO REMAIN
- 7 PRIOR TO ANY DEMOLITION CONTRACTORS ARE REQUIRED TO BE FAMILIAR WITH EXISTING CONDITIONS. SHORING MAY BE NEEDED INCLUDING INSTALLATION OF INTELS PRIOR TO THE REMOVAL OF ANY BUILDING ELEMENT.
- 8 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.

**GENERAL NOTE:**  
FOR FIRE SYSTEM - IN AREAS OF NO WORK COORDINATE W/ EXIST CEILING SYSTEM. SEE DRAWING E401 FOR EXTENT OF FIRE ALARM WORK.



NOTE: ALL LEGAL, REGULATORY AND PLAN RELATED INFORMATION REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF PROJECT OWNER. DRAWINGS ARCHITECTS PC HAS BEEN CREATED FOR USE ON THIS PROJECT. NONE OF SUCH LEGAL, REGULATORY OR PLAN INFORMATION SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF KG+D.

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ALTERATIONS BY ANY PERSON IN ANY WAY OF ANY ITEM CONTAINED HEREIN WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT SHALL BE AT THE RISK OF THE CONTRACTOR. THIS DRAWING IS A VIOLATION OF TITLE 16, SECTION 26-03 OF ANY YORK STATE LAW. COPYRIGHT 2022, WILLIAM E. COTTLE ARCHITECTS PC. ALL RIGHTS RESERVED.

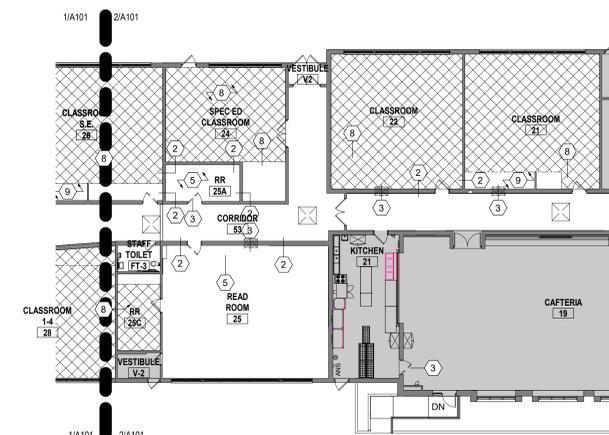
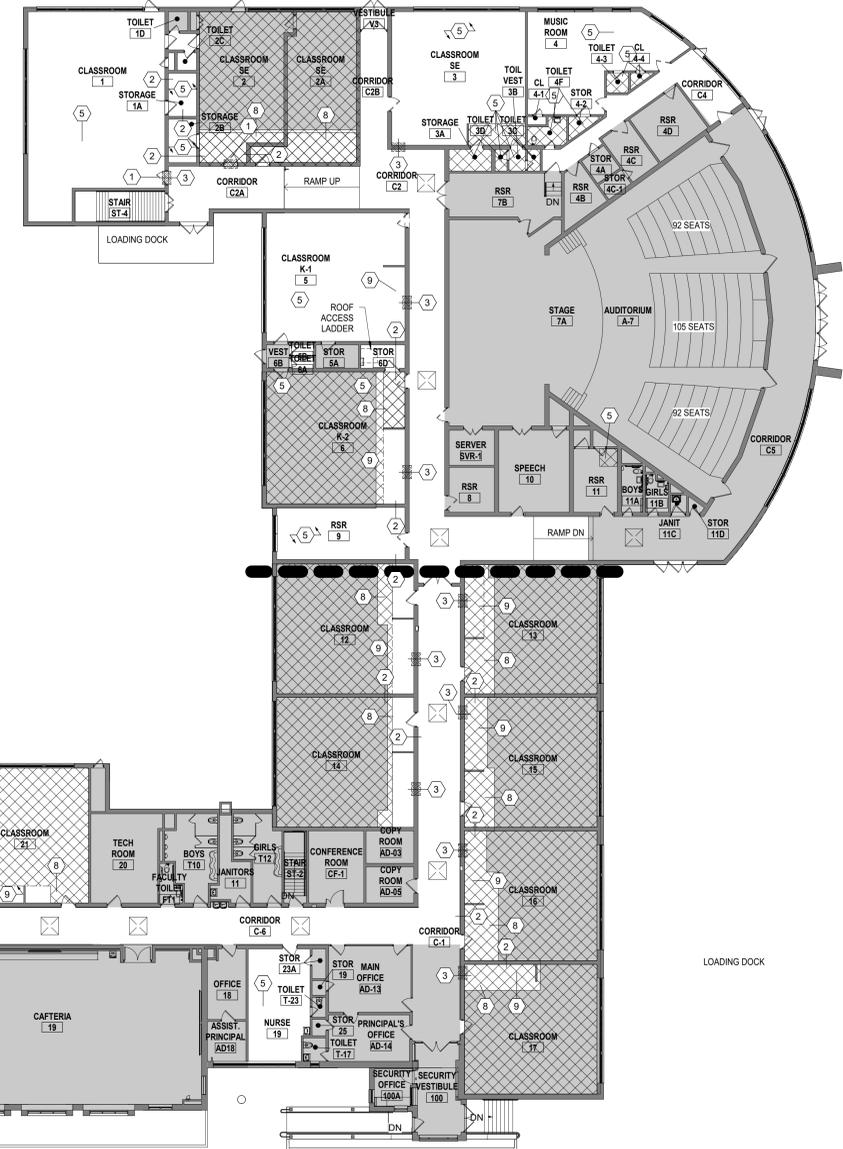
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11/20/2023 ISSUED FOR BID  
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Sheet Title

**OVERALL  
DEMOLITION  
PLANS - MEP**

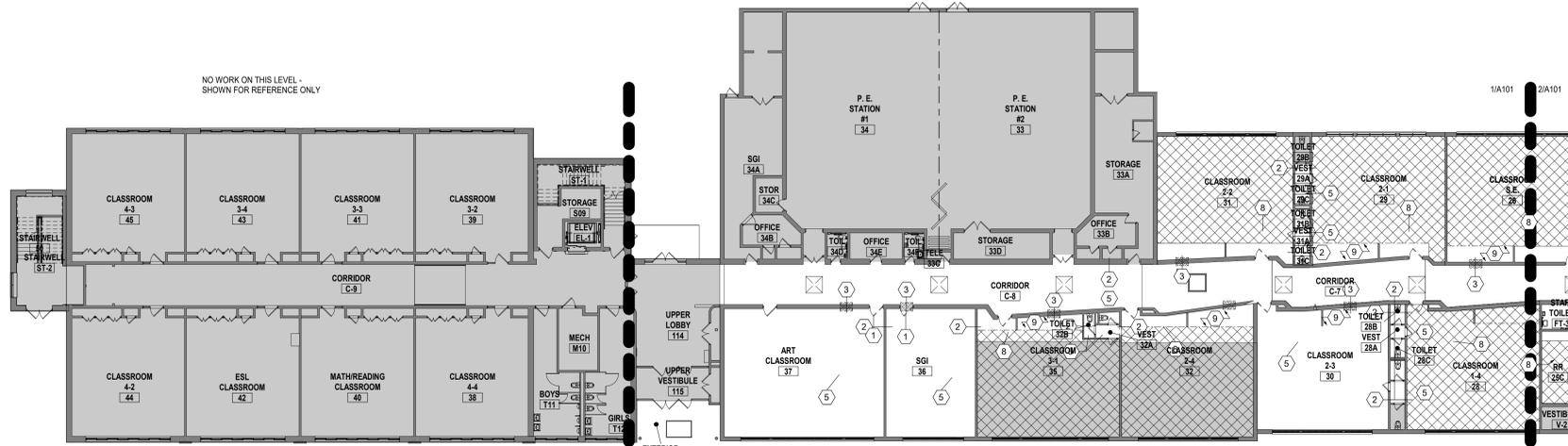
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Author Checker

Sheet Number  
**A100M**



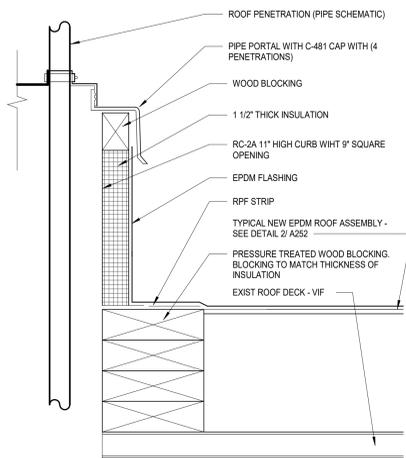
**2 PARTIAL FLOOR PLAN - WEST**  
1/16" = 1'-0"

CONSTRUCTION KEYNOTES MEP	
1	REMOVE & DISPOSE EXIST DOOR, FRAME AND ALL ASSOCIATED HARDWARE - COORD. INFILL W/ NEW CONSTRUCTION
2	CREATE NEW OPENINGS IN EXIST WALL - SAW CUT AS REQ. PATCH & MATCH TO EXIST ADJACENT SURFACES - PROVIDE NEW LINTELS IN EXIST MASONRY WALLS AS REQ. - COORD WITH STRUCTURAL, MEP & NEW CONSTRUCTION
3	REMOVE AND DISPOSE EXIST GRILLE & DUCT. INFILL W/ NEW CONSTRUCTION & PATCH & MATCH TO EXIST ADJACENT SURFACES - SEE MECHANICAL DRAWINGS FOR FURTHER INFO
5	REMOVE & DISPOSE ENTIRE CEILING SYSTEM & LIGHT FIXTURES INCLUSIVE OF ALL RELATED HANGERS, PERIMETER TRIM, ETC. - PREP FOR INSTALLATION NEW CEILING & LIGHTING SYSTEM - SEE A600 SERIES & MEP DRAWINGS FOR FURTHER INFO
8	IN THE RECD AREA, REMOVE, STORE & REINSTALL CEILING TILES UPON COMPLETION OF MEP WORK - PREP FOR INSTALLATION OF NEW LIGHTING IN RECD ROOMS - SEE ARCHITECTURAL ROPS (AROS) AND MEP DRAWINGS FOR FURTHER INFO
9	REMOVE ENTIRE EXIST PL WOOD CEILING & RELATED FRAMING - PROTECT THE EXIST & ADJACENT SURFACES FROM DAMAGE DURING DEMO AND NEW CONSTRUCTION - PREP FOR INSTALLATION OF RECD STEEL STUD FRAMING & NEW GWB CEILING

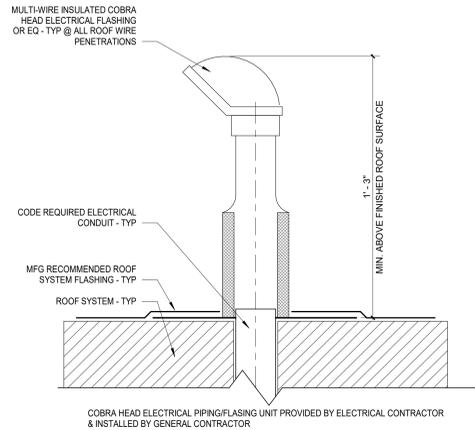


**1 PARTIAL FLOOR PLAN - EAST**  
1/16" = 1'-0"

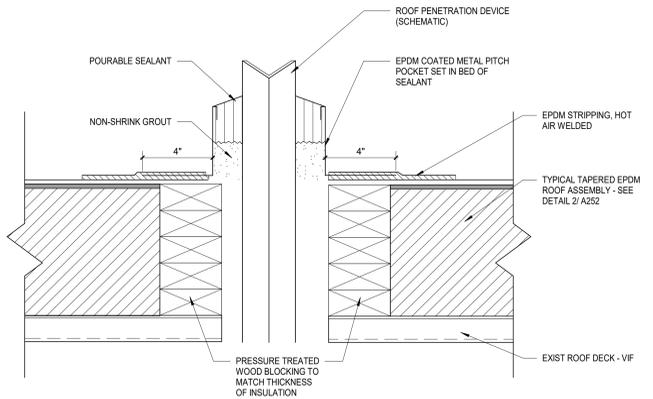
NO WORK ON THIS LEVEL - SHOWN FOR REFERENCE ONLY



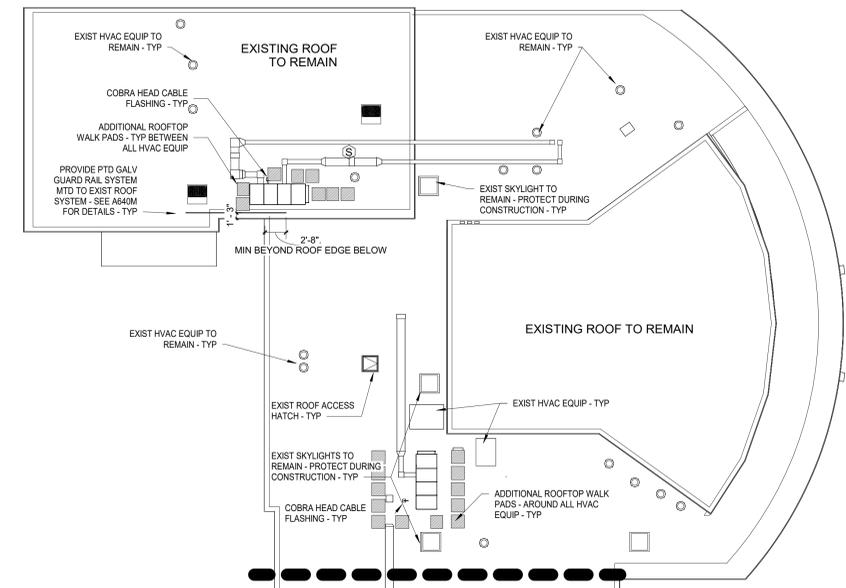
**7** SECTION @ ROOF PIPE PORTAL - TYP  
3" = 1'-0"



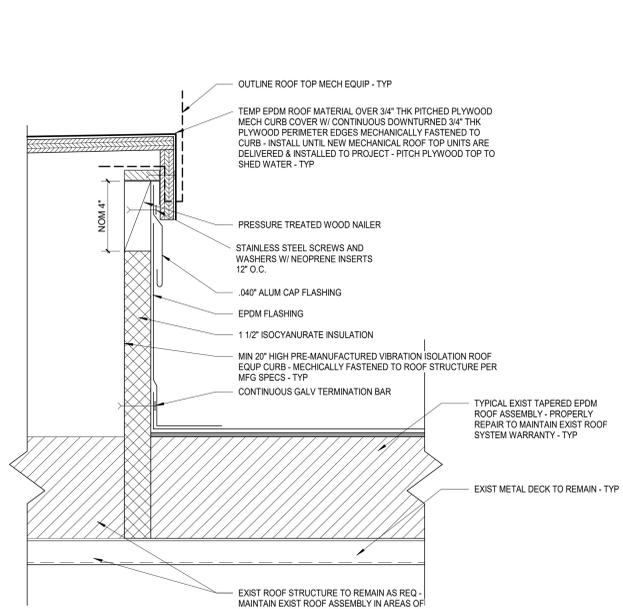
**5** ROOF TOP MULTI-WIRE COBRA HEAD FLASHING  
3" = 1'-0"



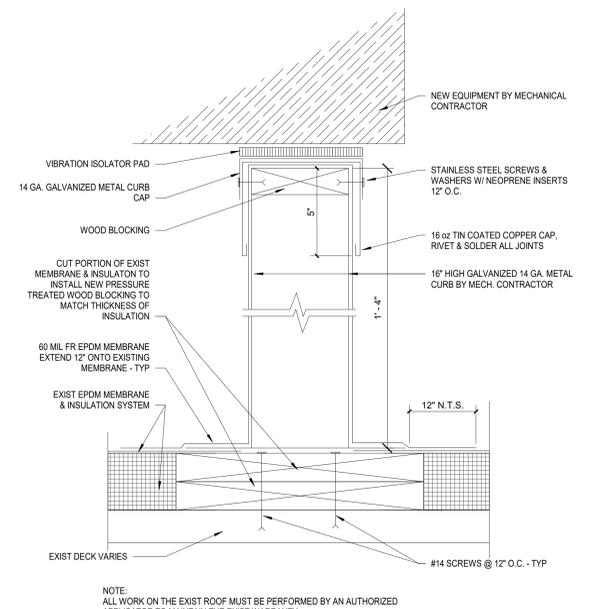
**4** TYPICAL PITCH POCKET  
3" = 1'-0"



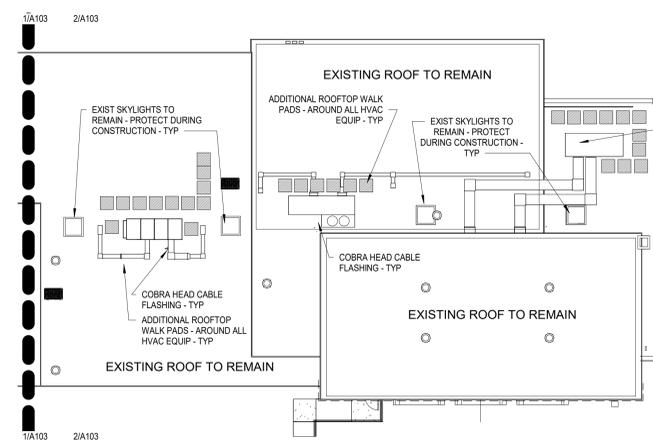
**2** ROOF PLAN- WEST  
1/16" = 1'-0"



**6** TYPICAL RTU CURB W/ TEMP CAP  
3" = 1'-0"



**3** TYPICAL RAIL CURB- EXIST EPDM ROOF  
3" = 1'-0"

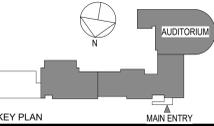


**1** ROOF PLAN - EAST  
1/16" = 1'-0"

- GENERAL ROOF NOTES
- STEEL BEAM REINFORCEMENTS FOR NEW ROOF TOP EQUIPMENT TO BE PROVIDED AND INSTALLED BY GC & COORD W/ MECHANICAL PRIME - TYP
  - ROOF TOP CURBS & RAILS TO BE PROVIDED BY MECHANICAL PRIME & INSTALLED BY GC. EQUIPMENT TO BE INSTALLED BY MECHANICAL PRIME - TYP
  - ROOFTOP PIPE PENETRATION PORTALS TO BE PROVIDED BY MECHANICAL PRIME AND INSTALLED BY G.C. ELECTRICAL WIRING SHALL SHARE THE SAME PIPE PORTAL - TYP
  - IN THE EVENT THAT ONLY ELECTRICAL WIRING IS PENETRATING THE ROOF - THE GOOSENECK IS PROVIDED BY THE G.C. & INSTALLED BY THE G.C. - TYP
  - GC RESPONSIBLE FOR ALL ROOF PENETRATIONS & REPAIRS AS REQ TO INSTALL ANY & ALL EQUIPMENT & RELATED ELECTRICAL - TYP
  - GC RESPONSIBLE FOR PATCHING & MATCHING ALL EXIST ROOF MATERIALS & PENETRATIONS AS MECHANICAL & ELECTRICAL EQUIPMENT IS REMOVED FROM ROOF AS PART OF THIS PROJECT - EXIST ROOF TO MAINTAIN WATERTIGHTNESS DURING ALL PHASES OF CONSTRUCTION - TYP

BASE BID TO INCLUDE:  
EXISTING LIGHT FIXTURES IN CLASSROOMS 1, 3, 4, 10, 11, 12, 25B, 30, 36 & 37 TO BE REMOVED & DISPOSED - REMAINING EXISTING CEILINGS TO BE REMOVED, STORED & REINSTALLED AS SHOWN - INCLUDE ADDITIONAL 10% FOR REPLACEMENT OF DAMAGED EXISTING CEILING TILES.

ADDITIONAL:  
REMOVE & DISPOSE EXIST LIGHT FIXTURES - REPLACE W/ NEW LIGHT FIXTURES IN CLASSROOMS 12, 13, 14, 16 & 17 ONLY.



NOTE: ALL LEGAL, DESIGN, ARRANGEMENTS AND PLANS RELATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF ARCHITECT. 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 CONSTRUCTION. WITHOUT THE WRITTEN PERMISSION OF ARCHITECT.

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

OVERALL ROOF PLAN

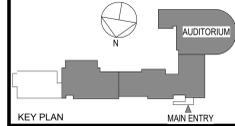
Job No. 2021-1052 Date 11/11/2022  
Scale Drawn / Checked Author Checker

Sheet Number  
**A250M**

**CEILING NOTES**

- 1 DENOTES AREA OF NO MAJOR ARCHITECTURAL WORK, U.O.N. - 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 DENOTES AREA OF EXIST PERFORATED METAL CEILING TILE SYSTEM TO BE REMOVED, STORED & REINSTALLED UPON COMPLETION OF MEP WORK. REPLACE CEILING LIGHTING SYSTEM ONLY IF NEW LIGHTING IS SHOWN ON RCP.
- 6 DENOTES AREA OF NEW ACT CEILING SYSTEM W/ EXIST LIGHT FIXTURES TO REMAIN. REMOVE & STORE (A) EXIST LIGHT FIXTURE. EXIST CEILING SYSTEM TO BE REMOVED & DISPOSED - PREP FOR INSTALLATION OF NEW SYSTEM AND REPLACE STORED LIGHT FIXTURES
- 7 DENOTES AREA OF NEW ACT CEILING SYSTEM & LIGHT FIXTURES - EXIST CEILING SYSTEM & LIGHT FIXTURES TO BE REMOVED & DISPOSED - PREP FOR INSTALLATION OF NEW SYSTEM - TYP
- 8 DENOTES AREA OF EXIST ACT CEILING GRID TO BE REMOVED, STORED & REINSTALLED UPON COMPLETION OF MEP WORK. EXISTING ACT TILES & LIGHTING TO BE REMOVED & REINSTALLED W/ EXIST ACT TILES & CEILING LIGHT FIXTURES - TYP
- 9 AT A ADJACENT TO CLOSET GWR. CEILING PROVIDE 2x4 STEEL STUD FRAMING @ 16" O.C. - TYP

**GENERAL NOTE:**  
 FOR FIRE SYSTEM - IN AREAS OF NO WORK, COORDINATE W/ EXIST CEILING SYSTEM. SEE DRAWING E401 FOR EXTENT OF FIRE ALARM WORK.



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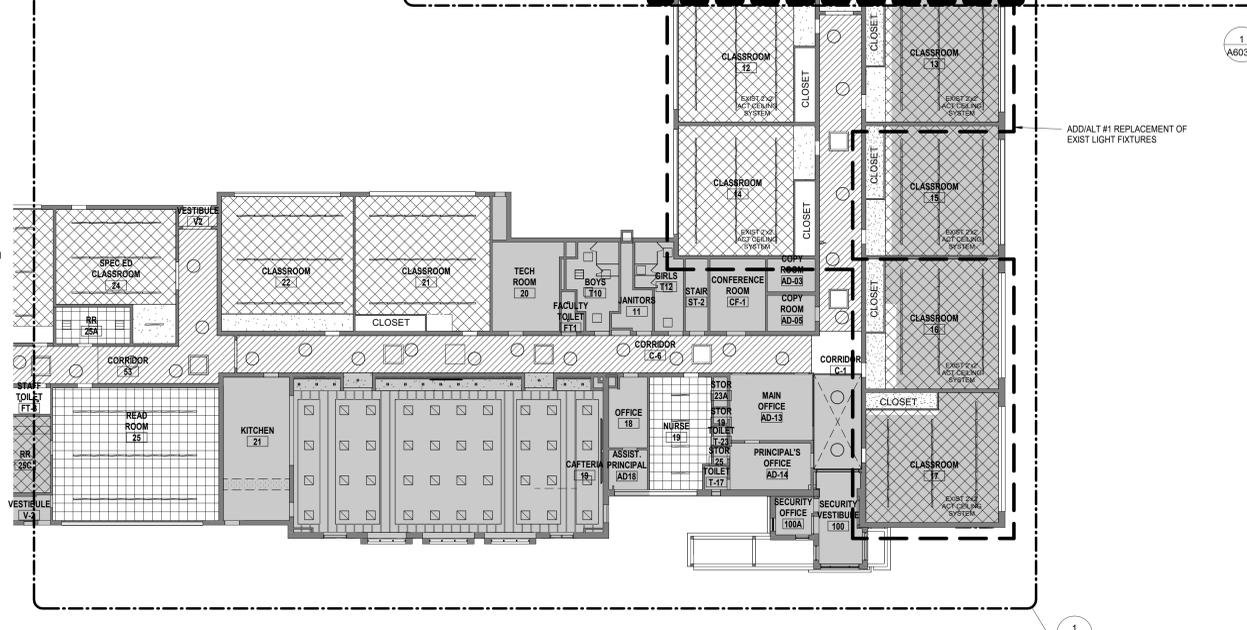
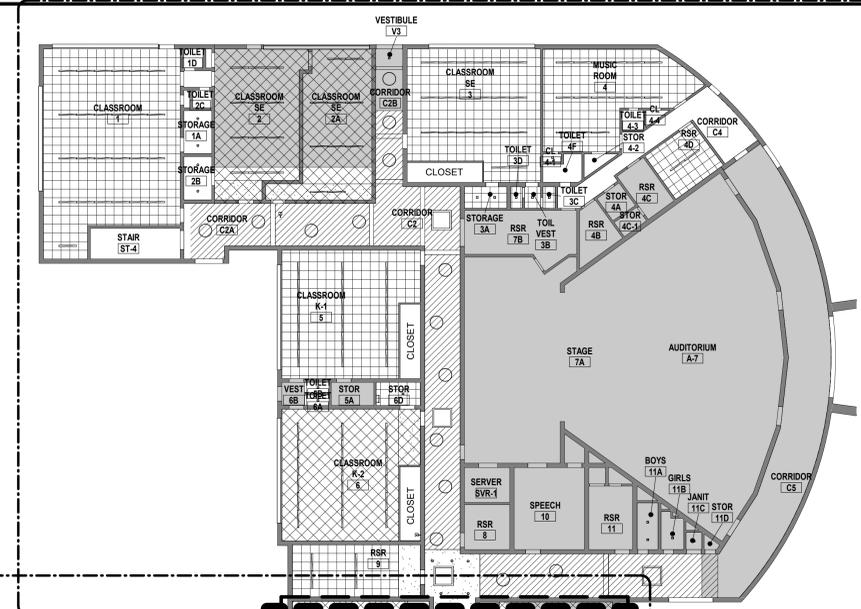
Professional Seal

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

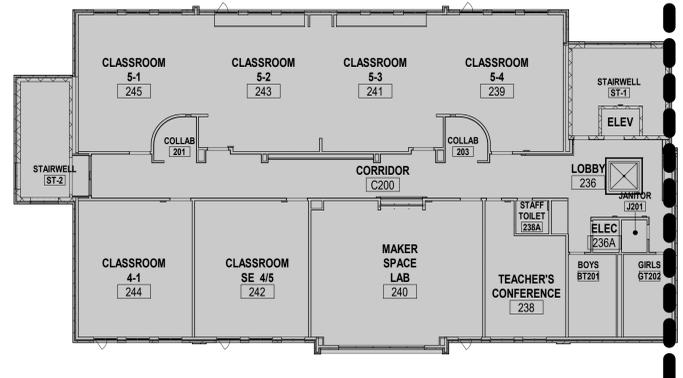
**OVERALL REFLECTED CEILING PLANS**

Job No. 2021-1052 Date 11/11/2022  
 Scale AS NOTED Drawn / Checked Author Checker

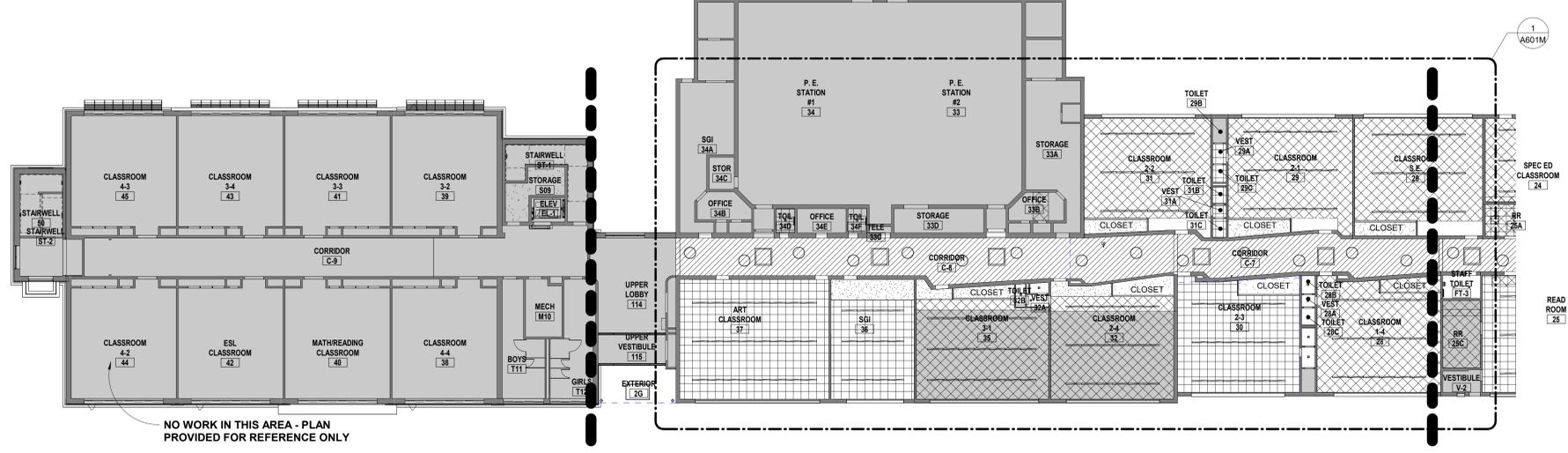
Sheet Number  
**A600M**



**1 PARTIAL REFLECTED CEILING PLAN - WEST**  
 1/16" = 1'-0"



**3 2ND FLOOR REFLECTED CEILING PLAN**  
 1/16" = 1'-0"  
 NO WORK IN THIS AREA - PLAN PROVIDED FOR REFERENCE ONLY



**2 PARTIAL REFLECTED CEILING PLAN - EAST**  
 1/16" = 1'-0"

NO WORK IN THIS AREA - PLAN PROVIDED FOR REFERENCE ONLY

**BASE BID TO INCLUDE:**  
 EXISTING LIGHT FIXTURES IN CLASSROOMS 1, 3, 4, 4.0, 5, 8, 23, 25B, 30, 36 & 37 TO BE REMOVED & DISPOSED - REMAINING EXISTING CEILINGS TO BE REMOVED, STORED & REINSTALLED AS SHOWN - INCLUDE ADDITIONAL 10% FOR REPLACEMENT OF DAMAGED EXISTING CEILING TILES.

**ADD/ALT #1**  
 REMOVE & DISPOSE EXIST LIGHT FIXTURES - REPLACE W/ NEW LIGHT FIXTURES IN CLASSROOMS 12, 13, 14, 16 & 17 ONLY.

**CEILING NOTES**

- 1 DENOTES AREA OF NO MAJOR ARCHITECTURAL WORK, U.O.N. - SEE M.E.P. DWGS.
- 2 CEILING GRIDS ARE TO BE CENTERED IN ROOM. ALL CEILING FIXTURES, INCLUDING EXH 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 DENOTES AREA OF EXIST PERFORATED METAL CEILING TILE SYSTEM TO BE REMOVED, STORED & REINSTALLED UPON COMPLETION OF MEP WORK. REPLACE CEILING LIGHTING SYSTEM ONLY IF NEW LIGHTING IS SHOWN ON RCP.
- 6 DENOTES AREA OF NEW ACT CEILING SYSTEM W/ EXIST LIGHT FIXTURES TO REMAIN. REMOVE & STORE (A) EXIST LIGHT FIXTURE. EXIST CEILING SYSTEM TO BE REMOVED & DISPOSED - PREP FOR INSTALLATION OF NEW SYSTEM AND REPLACE STORED LIGHT FIXTURES
- 7 DENOTES AREA OF NEW ACT CEILING SYSTEM & LIGHT FIXTURES - EXIST CEILING SYSTEM & LIGHT FIXTURES TO BE REMOVED & DISPOSED - PREP FOR INSTALLATION OF NEW SYSTEM - TYP
- 8 DENOTES AREA OF EXIST ACT CEILING GRID TO BE REMOVED, STORED & REINSTALLED UPON COMPLETION OF MEP WORK. EXISTING ACT TILES & LIGHTING TO BE REMOVED & REINSTALLED W/ EXIST ACT TILES & CEILING LIGHT FIXTURES - TYP
- 9 AT & ADJACENT TO CLOSET GWB. CEILING PROVIDE 2x4 STEEL STUD FRAMING @ 16" O.C. - TYP

**BASE BID TO INCLUDE:**

EXISTING LIGHT FIXTURES IN CLASSROOMS 1, 3, 4, 4D, 5, 9, 23, 25B, 30, 36 & 37 TO BE REMOVED & DISPOSED - REMAINING EXISTING CEILING TO BE REMOVED, STORED & REINSTALLED AS SHOWN - INCLUDE ADDITIONAL 10% FOR REPLACEMENT OF DAMAGED EXISTING CEILING TILES.

**ADDENDUM #1**  
REMOVE & DISPOSE EXIST LIGHT FIXTURES - REPLACE W/ NEW LIGHT FIXTURES IN CLASSROOMS 12, 13, 14, 16 & 17 ONLY.

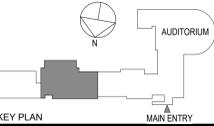
**CONSTRUCTION KEYNOTES MEP**

100 INFILL @ REMOVED EXIST GRILLE & DUCT. W/ NEW CONSTRUCTION & PATCH. PAINT & MATCH TO EXIST ADJACENT SURFACES - SEE MECHANICAL DRAWINGS FOR FURTHER INFO



1 PARTIAL REFLECTED CEILING PLAN - EAST  
1/8" = 1'-0"

**GENERAL NOTE:**  
FOR FIRE SYSTEM - IN AREAS OF NO WORK, COORDINATE W/ EXIST CEILING SYSTEM. SEE DRAWING E401 FOR EXTENT OF FIRE ALARM WORK.



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12/04/2023 ISSUED FOR BID

**PARTIAL 1ST FLOOR RCP PLAN**

Job No. 2021-1052 Date 11/11/2022  
Scale Drawn / Checked

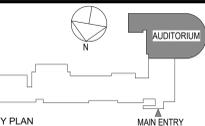
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**A601M**



**CEILING NOTES**

- 1 DENOTES AREA OF NO MAJOR ARCHITECTURAL WORK, U.O.N. - 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 DENOTES AREA OF EXIST PERFORATED METAL CEILING TILE SYSTEM TO BE REMOVED, STORED & REINSTALLED UPON COMPLETION OF MEP WORK. REPLACE CEILING LIGHTING SYSTEM ONLY IF NEW LIGHTING IS SHOWN ON RCP.
- 6 DENOTES AREA OF NEW ACT CEILING SYSTEM W/ EXIST LIGHT FIXTURES TO REMAIN. REMOVE & STORE (A) EXIST LIGHT FIXTURE. EXIST CEILING SYSTEM TO BE REMOVED & DISPOSED - PREP FOR INSTALLATION OF NEW SYSTEM AND REPLACE STORED LIGHT FIXTURES
- 7 DENOTES AREA OF NEW ACT CEILING SYSTEM & LIGHT FIXTURES - EXIST CEILING SYSTEM & LIGHT FIXTURES TO BE REMOVED & DISPOSED - PREP FOR INSTALLATION OF NEW SYSTEM - TYP
- 8 DENOTES AREA OF EXIST ACT CEILING GRID TO BE REMOVED, STORED & REINSTALLED UPON COMPLETION OF MEP WORK. EXISTING ACT TILES & LIGHTING TO BE REMOVED & REINSTALLED W/ EXIST ACT TILES & CEILING LIGHT FIXTURES - TYP
- 9 AT ADJACENT TO CLOSET GWB. CEILING PROVIDE 2x4 STEEL STUD FRAMING @ 16" O.C. - TYP

**GENERAL NOTE:**  
FOR FIRE SYSTEM - IN AREAS OF NO WORK, COORDINATE W/ EXIST CEILING SYSTEM. SEE DRAWING E401 FOR EXTENT OF FIRE ALARM WORK.



**NOTE:** ALL LEGAL DESIGNS, ARRANGEMENTS AND PLANS HEREON OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KENNETH GARMENT - DESIGNER ARCHITECTS PC. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF KGD.

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

Sheet Title

**PARTIAL 1ST FLOOR RCP PLAN**

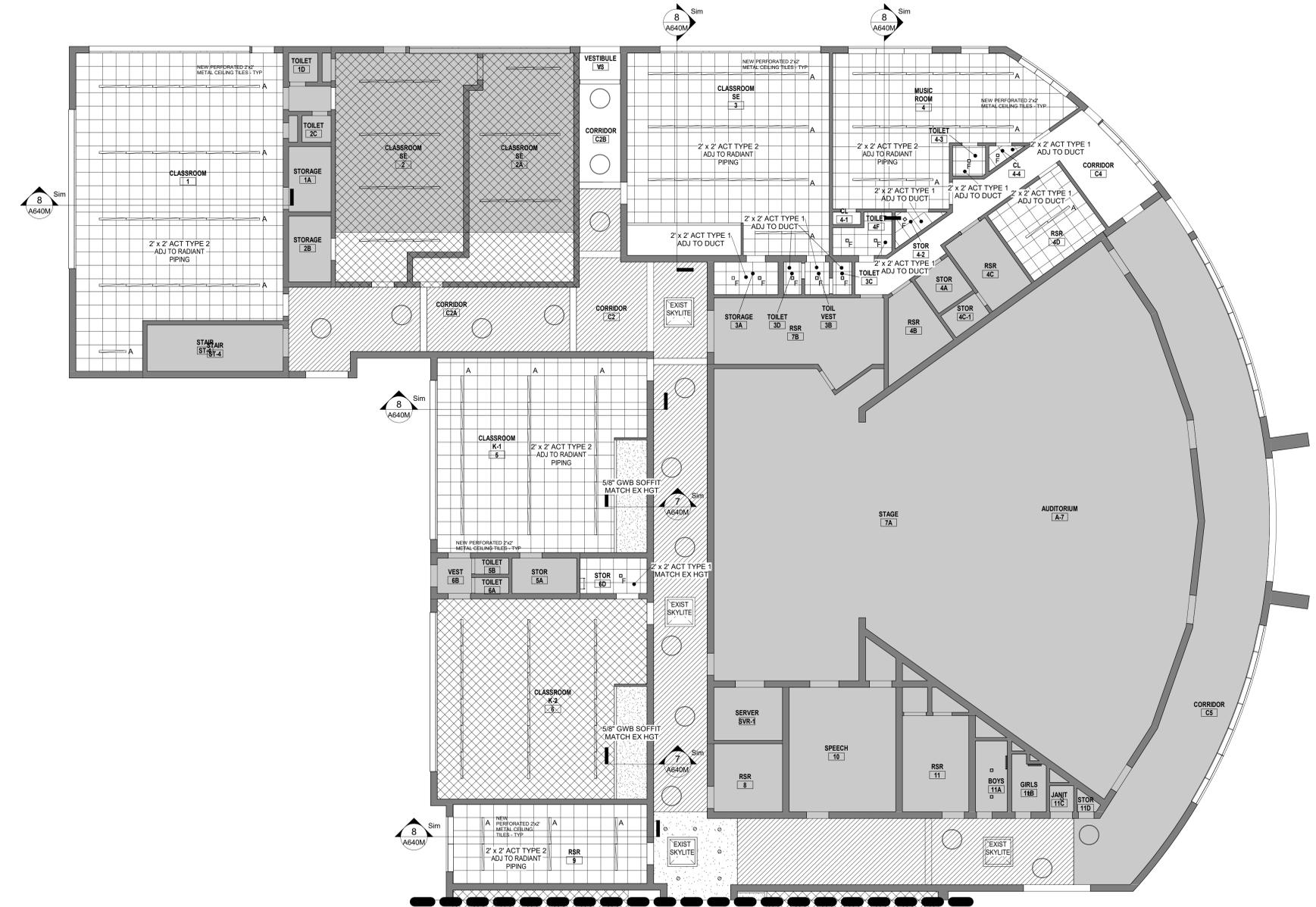
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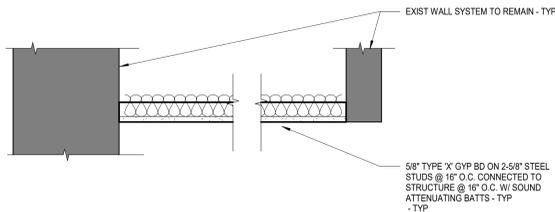
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**A603M**

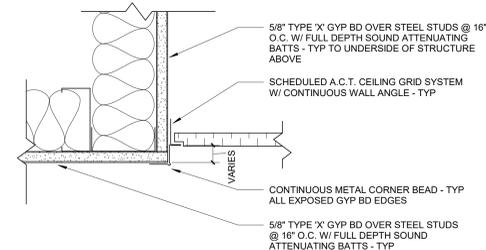
**BASE BID TO INCLUDE:**  
EXISTING LIGHT FIXTURES IN CLASSROOMS 1, 3, 4, 4D, 5, 9, 23, 25B, 30, 36 & 37 TO BE REMOVED & DISPOSED - REMAINING EXISTING CEILING TO BE REMOVED, STORED & REINSTALLED AS SHOWN - INCLUDE ADDITIONAL 10% FOR REPLACEMENT OF DAMAGED EXISTING CEILING TILES.  
**ADDITL #1**  
REMOVE & DISPOSE EXIST LIGHT FIXTURES - REPLACE W/ NEW LIGHT FIXTURES IN CLASSROOMS 12, 13, 14, 16 & 17 ONLY.



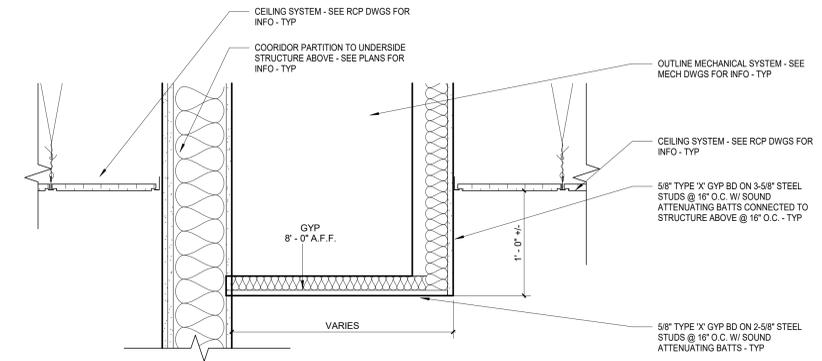
1 ENLARGED PARTIAL RCP - WEST - PART 2  
1/8" = 1'-0"



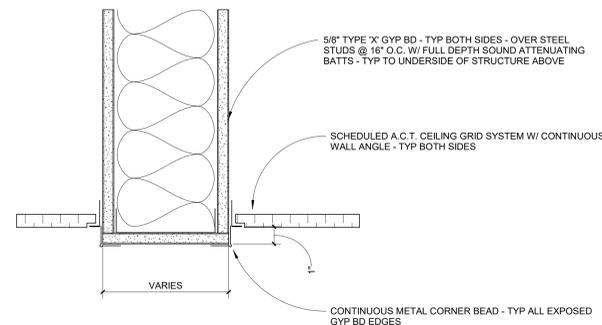
7 SECTION @ CLOSET CEILINGS - TYP  
1 1/2" = 1'-0"



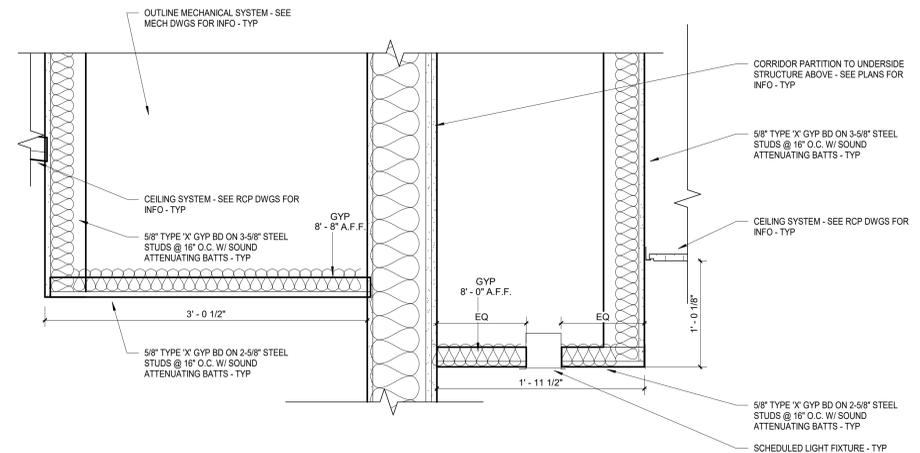
6 CEILING EDGE DETAIL  
3" = 1'-0"



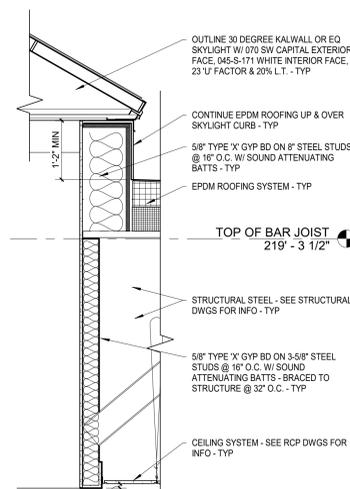
3 SECTION @ CLASSROOM SOFFIT - TYP  
1 1/2" = 1'-0"



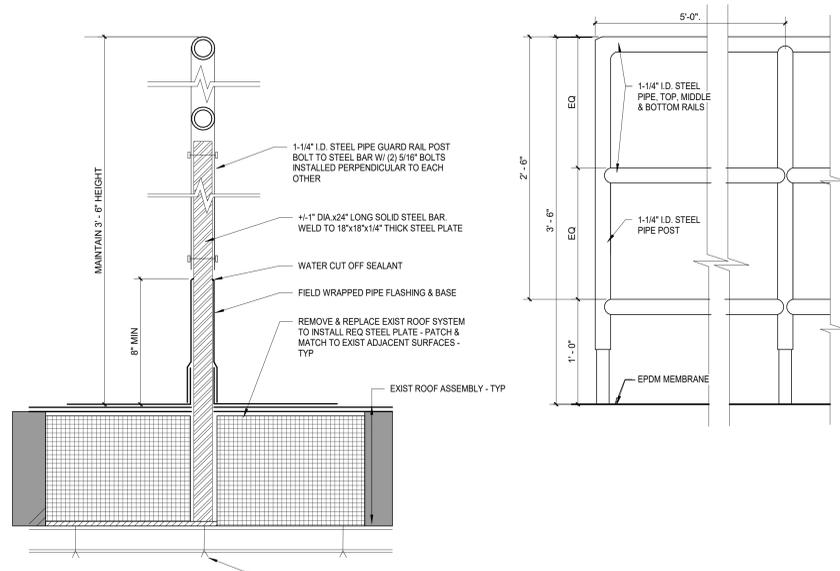
5 CEILING HEADER SECTION 2 SIDED  
3" = 1'-0"



2 SECTION @ CORRIDOR SOFFIT  
1 1/2" = 1'-0"



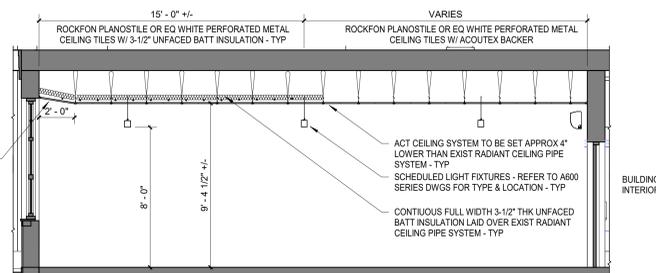
4 SECTION THROUGH SKYLIGHT - TYP  
3/4" = 1'-0"



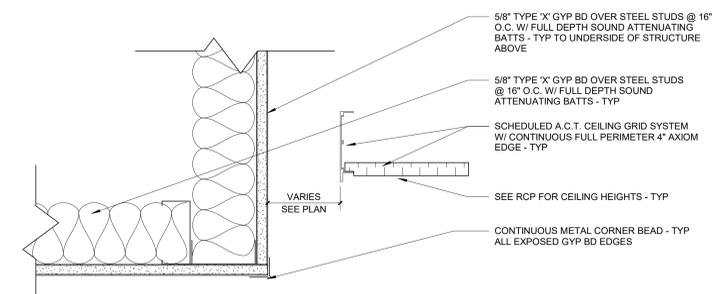
TYPICAL POST FLASHING  
SCHEMATIC: N.T.S.

NEW GUARD RAIL ELEVATION  
SCHEMATIC: N.T.S.

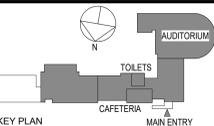
9 TYPICAL ROOF GUARDRAIL DETAILS  
1 1/2" = 1'-0"



8 PERFORATED CLASSROOM CEILING SECTION - TYP  
1/4" = 1'-0"



1 CEILING HEAD GYP TO AXIOM EDGE  
3" = 1'-0"



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11/20/2023 ISSUED FOR BID

Sheet Title

CEILING & ROOF RAILING DETAILS

Job No. 2021-1052 Date 11/11/2022

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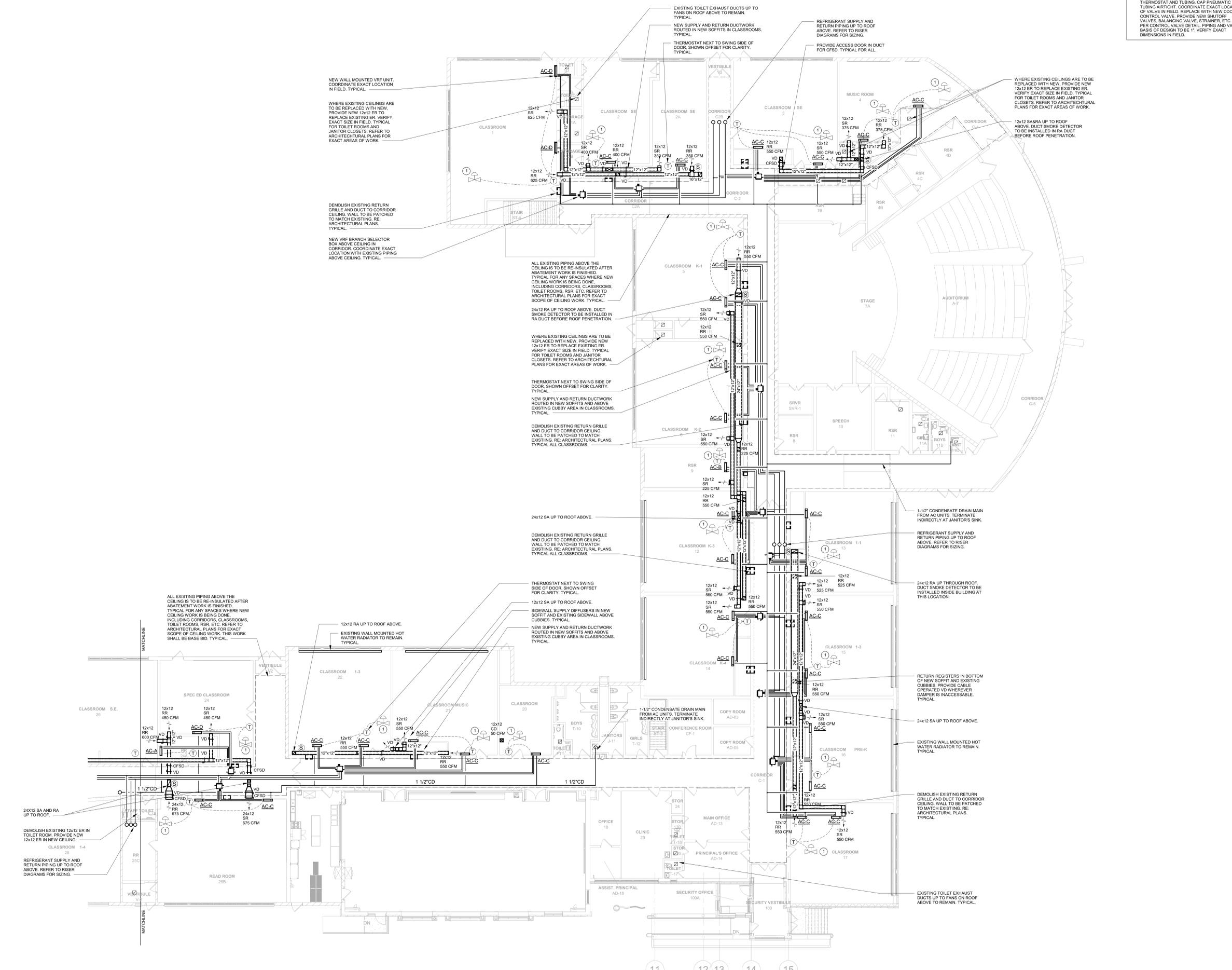
Author Checker

Sheet Number

A640M



**NOTES:**  
 1 DEMOLISH EXISTING PNEUMATIC CONTROL VALVE FOR CEILING RADIANT HEAT AND FTR INCLUDING TUBING AIRTIGHT. COORDINATE EXACT LOCATION OF VALVE IN FIELD. REPLACE WITH NEW DDC CONTROL VALVE. PROVIDE NEW SHUTOFF VALVES, BALANCING VALVE, STRAINER, ETC. AS PER CONTROL VALVE DETAIL. PIPING AND VALVES BASIS OF DESIGN TO BE 1". VERIFY EXACT DIMENSIONS IN FIELD.



NEW WALL MOUNTED VRF UNIT. COORDINATE EXACT LOCATION IN FIELD. TYPICAL.

WHERE EXISTING CEILING ARE TO BE REPLACED WITH NEW, PROVIDE NEW 12x12 ER TO REPLACE EXISTING ER. VERIFY EXACT SIZE IN FIELD. TYPICAL FOR TOILET ROOMS AND JANITOR CLOSETS. REFER TO ARCHITECTURAL PLANS FOR EXACT AREAS OF WORK.

DEMOLISH EXISTING RETURN GRILLE AND DUCT TO CORRIDOR CEILING. WALL TO BE PATCHED TO MATCH EXISTING. RE. ARCHITECTURAL PLANS. TYPICAL.

NEW VRF BRANCH SELECTOR BOX ABOVE CEILING IN CORRIDOR. COORDINATE EXACT LOCATION WITH EXISTING PIPING ABOVE CEILING. TYPICAL.

EXISTING TOILET EXHAUST DUCTS UP TO FANS ON ROOF ABOVE. TO REMAIN. TYPICAL.

NEW SUPPLY AND RETURN DUCTWORK ROUTED IN NEW SOFFITS IN CLASSROOMS. TYPICAL.

THERMOSTAT NEXT TO SWING SIDE OF DOOR. SHOWN OFFSET FOR CLARITY. TYPICAL.

REFRIGERANT SUPPLY AND RETURN PIPING UP TO ROOF ABOVE. REFER TO RISER DIAGRAMS FOR SIZING.

PROVIDE ACCESS DOOR IN DUCT FOR CFSD. TYPICAL FOR ALL.

WHERE EXISTING CEILING ARE TO BE REPLACED WITH NEW, PROVIDE NEW 12x12 ER TO REPLACE EXISTING ER. VERIFY EXACT SIZE IN FIELD. TYPICAL FOR TOILET ROOMS AND JANITOR CLOSETS. REFER TO ARCHITECTURAL PLANS FOR EXACT AREAS OF WORK.

12x12 SA/RA UP TO ROOF ABOVE. DUCT SMOKE DETECTOR TO BE INSTALLED IN RA DUCT BEFORE ROOF PENETRATION.

ALL EXISTING PIPING ABOVE THE CEILING IS TO BE RE-INSULATED AFTER ABATEMENT WORK IS FINISHED. TYPICAL FOR ANY SPACES WHERE NEW CEILING WORK IS BEING DONE. INCLUDING CORRIDORS, CLASSROOMS, TOILET ROOMS, RSR, ETC. REFER TO ARCHITECTURAL PLANS FOR EXACT SCOPE OF CEILING WORK. TYPICAL.

24x12 RA UP TO ROOF ABOVE. DUCT SMOKE DETECTOR TO BE INSTALLED IN RA DUCT BEFORE ROOF PENETRATION.

WHERE EXISTING CEILING ARE TO BE REPLACED WITH NEW, PROVIDE NEW 12x12 ER TO REPLACE EXISTING ER. VERIFY EXACT SIZE IN FIELD. TYPICAL FOR TOILET ROOMS AND JANITOR CLOSETS. REFER TO ARCHITECTURAL PLANS FOR EXACT AREAS OF WORK.

THERMOSTAT NEXT TO SWING SIDE OF DOOR. SHOWN OFFSET FOR CLARITY. TYPICAL.

NEW SUPPLY AND RETURN DUCTWORK ROUTED IN NEW SOFFITS AND ABOVE EXISTING CUBBY AREA IN CLASSROOMS. TYPICAL.

DEMOLISH EXISTING RETURN GRILLE AND DUCT TO CORRIDOR CEILING. WALL TO BE PATCHED TO MATCH EXISTING. RE. ARCHITECTURAL PLANS. TYPICAL ALL CLASSROOMS.

24x12 SA UP TO ROOF ABOVE.

DEMOLISH EXISTING RETURN GRILLE AND DUCT TO CORRIDOR CEILING. WALL TO BE PATCHED TO MATCH EXISTING. RE. ARCHITECTURAL PLANS. TYPICAL ALL CLASSROOMS.

THERMOSTAT NEXT TO SWING SIDE OF DOOR. SHOWN OFFSET FOR CLARITY. TYPICAL.

12x12 SA UP TO ROOF ABOVE.

SIDEWALL SUPPLY DIFFUSERS IN NEW SOFFIT AND EXISTING SIDEWALL ABOVE CUBBIES. TYPICAL.

NEW SUPPLY AND RETURN DUCTWORK ROUTED IN NEW SOFFITS AND ABOVE EXISTING CUBBY AREA IN CLASSROOMS. TYPICAL.

1-1/2" CONDENSATE DRAIN MAIN FROM AC UNITS. TERMINATE INDIRECTLY AT JANITOR'S SINK.

REFRIGERANT SUPPLY AND RETURN PIPING UP TO ROOF ABOVE. REFER TO RISER DIAGRAMS FOR SIZING.

24x12 RA UP THROUGH ROOF. DUCT SMOKE DETECTOR TO BE INSTALLED INSIDE BUILDING AT THIS LOCATION.

ALL EXISTING PIPING ABOVE THE CEILING IS TO BE RE-INSULATED AFTER ABATEMENT WORK IS FINISHED. TYPICAL FOR ANY SPACES WHERE NEW CEILING WORK IS BEING DONE. INCLUDING CORRIDORS, CLASSROOMS, TOILET ROOMS, RSR, ETC. REFER TO ARCHITECTURAL PLANS FOR EXACT SCOPE OF CEILING WORK. THIS WORK SHALL BE BASE BID. TYPICAL.

12x12 RA UP TO ROOF ABOVE.

EXISTING WALL MOUNTED HOT WATER RADIATOR TO REMAIN. TYPICAL.

12x12 SA UP TO ROOF ABOVE.

NEW SUPPLY AND RETURN DUCTWORK ROUTED IN NEW SOFFITS AND ABOVE EXISTING CUBBY AREA IN CLASSROOMS. TYPICAL.

1-1/2" CONDENSATE DRAIN MAIN FROM AC UNITS. TERMINATE INDIRECTLY AT JANITOR'S SINK.

24x12 SA UP TO ROOF ABOVE.

EXISTING WALL MOUNTED HOT WATER RADIATOR TO REMAIN. TYPICAL.

RETURN REGISTERS IN BOTTOM OF NEW SOFFIT AND EXISTING CUBBIES. PROVIDE CABLE OPERATED VD WHEREVER DAMPER IS INACCESSIBLE. TYPICAL.

24x12 SA UP TO ROOF ABOVE.

EXISTING WALL MOUNTED HOT WATER RADIATOR TO REMAIN. TYPICAL.

DEMOLISH EXISTING RETURN GRILLE AND DUCT TO CORRIDOR CEILING. WALL TO BE PATCHED TO MATCH EXISTING. RE. ARCHITECTURAL PLANS. TYPICAL.

24x12 SA AND RA UP TO ROOF.

DEMOLISH EXISTING 12x12 ER IN TOILET ROOM. PROVIDE NEW 12x12 ER IN NEW CEILING.

REFRIGERANT SUPPLY AND RETURN PIPING UP TO ROOF ABOVE. REFER TO RISER DIAGRAMS FOR SIZING.

1-1/2" CONDENSATE DRAIN MAIN FROM AC UNITS. TERMINATE INDIRECTLY AT JANITOR'S SINK.

EXISTING TOILET EXHAUST DUCTS UP TO FANS ON ROOF ABOVE TO REMAIN. TYPICAL.

EXISTING TOILET EXHAUST DUCTS UP TO FANS ON ROOF ABOVE TO REMAIN. TYPICAL.

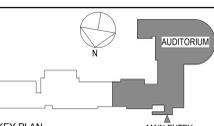
24x12 SA AND RA UP TO ROOF.

DEMOLISH EXISTING 12x12 ER IN TOILET ROOM. PROVIDE NEW 12x12 ER IN NEW CEILING.

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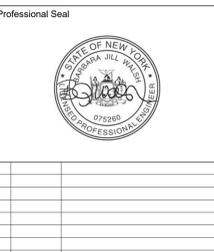
EXISTING TOILET EXHAUST DUCTS UP TO FANS ON ROOF ABOVE TO REMAIN. TYPICAL.



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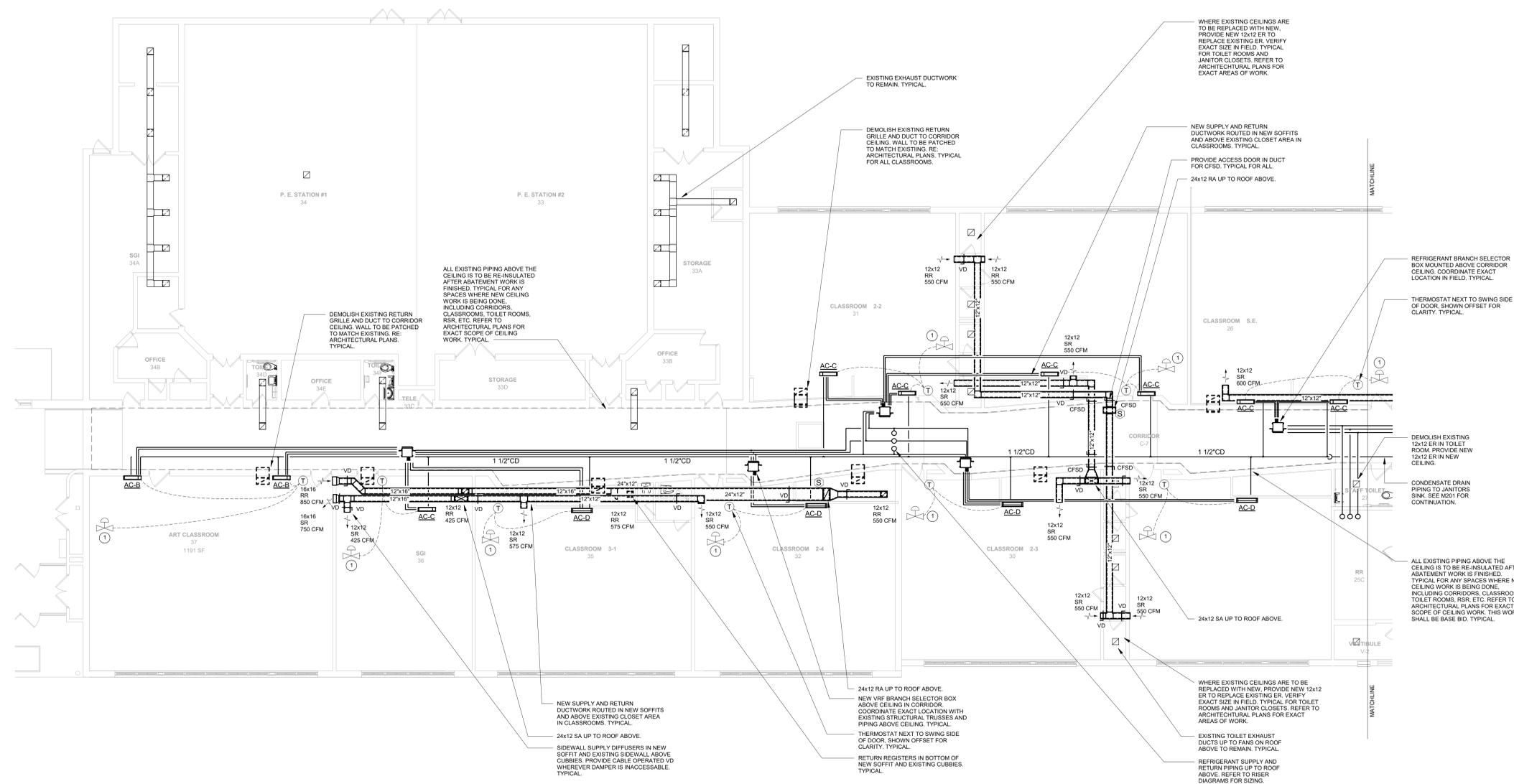
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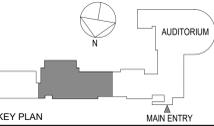
1 12/04/2023 ISSUED FOR BID	
No. 1	Date Issue
<b>MECHANICAL FIRST FLOOR NEW WORK - WEST</b>	
Job No. NKG02038.00	Date 11/05/2021
Scale AS NOTED	Drawn / Checked JRT / RS
Sheet Number	
<b>M201</b>	

**MECHANICAL FIRST FLOOR NEW WORK PLAN - WEST**  
 SCALE: 3/32" = 1'-0"

**NOTES:**  
 1 DEMOLISH EXISTING PNEUMATIC CONTROL VALVE FOR CEILING RADIANT HEAT AND FTR INCLUDING TUBING AIRTIGHT. COORDINATE EXACT LOCATION OF VALVE IN FIELD. REPLACE WITH NEW DDC CONTROL VALVE. PROVIDE NEW SHUTOFF VALVES, BALANCING VALVE, STRAINER, ETC. AS PER CONTROL VALVE DETAIL. PIPING AND VALVES BASIS OF DESIGN TO BE 1". VERIFY EXACT DIMENSIONS IN FIELD.



**MECHANICAL FIRST FLOOR NEW WORK PLAN - EAST**  
 SCALE: 1/8" = 1'-0"  
 NORTH



**KEY PLAN**  
 AUDITORIUM  
 MAIN ENTRY

NOTE: ALL MECH. SCHEDULE ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF THE ARCHITECT. THE ARCHITECT'S PROFESSIONAL SEAL IS ATTACHED HEREIN TO A VALIDATION OF TITLE. NO PART OF THIS DRAWING OR ANY INFORMATION CONTAINED THEREIN SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.

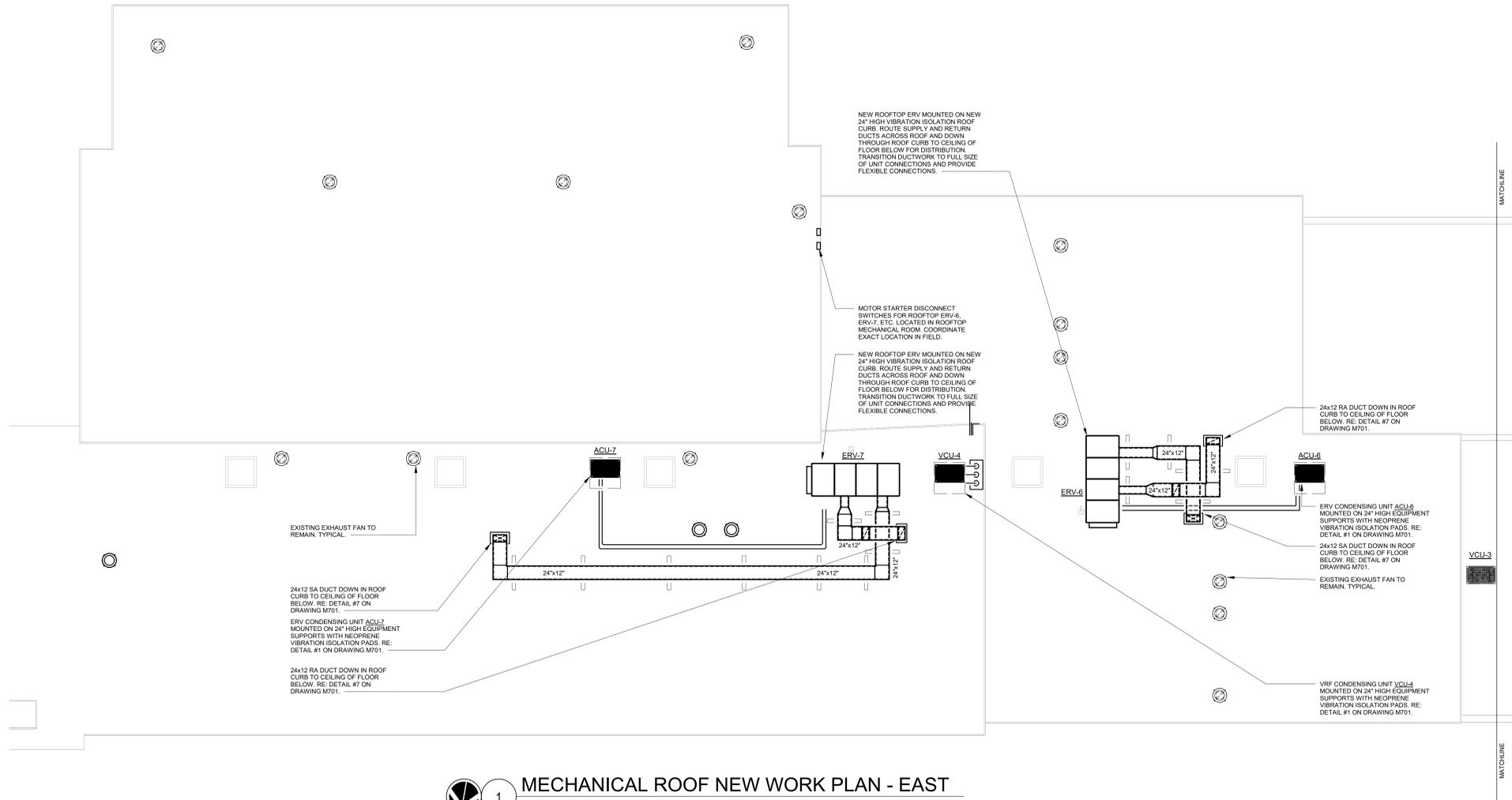
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1 12/04/2023 ISSUED FOR BID	
No. 1	Date
Sheet Title	
<b>MECHANICAL FIRST FLOOR NEW WORK - EAST</b>	
Job No. NKG02038.00	Date 11/05/2021
Scale AS NOTED	Drawn / Checked JRT / RS
Sheet Number	
<b>M202</b>	

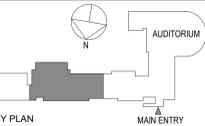




**MECHANICAL ROOF NEW WORK PLAN - EAST**

SCALE: 1/8" = 1'-0"

1. PROVIDE 1" ACOUSTIC LINING ON ALL DUCTWORK 20'-0" MINIMUM DOWNSTREAM EQUIPMENT.
2. PROVIDE FLEXIBLE DUCTWORK CONNECTIONS AT ALL EQUIPMENT.
3. REFER TO DRAWING M702 FOR REFRIGERANT RISER DIAGRAMS AND ASSOCIATED PIPE SIZES.



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1 12/04/2023 ISSUED FOR BID

No. | Date | Issue

MECHANICAL ROOF NEW WORK - EAST

Job No. NKGD0238.00 Date 11/05/2021

Scale AS NOTED Drawn / Checked JRT RS

Sheet Number

**M204**

Room No.	Room Name	Area (sq.ft.)	Occupancy Type		Ventilation Index				Design SA CFM	Design EA CFM	Design OA CFM	Code OA CFM				
			Category	Type	Per. / 1,000 sq. ft.	No. of Occ.	OA CFM / Pers.	OA CFM / sq. ft.					Zone Distribution Effectiveness			
														% of SA	% of EA	% of OA
1	classroom SE	1325	Education	Classroom (ages 5-8)	25	34	10.0	0.12	0.8	600	0.5	100%	625	624	0.47	
2	classroom SE	632	Education	Classroom (ages 5-8)	25	16	10.0	0.12	0.8	400	0.6	100%	400	295	0.47	
2A	classroom SE	558	Education	Classroom (ages 5-8)	25	14	10.0	0.12	0.8	350	0.6	100%	350	295	0.46	
4	Music Room	609	Education	Classroom (ages 5-8)	25	16	10.0	0.12	0.8	375	0.6	100%	375	291	0.48	
3	classroom SE	921	Education	Classroom (ages 5-8)	25	24	10.0	0.12	0.8	550	0.6	100%	550	438	0.48	
5	classroom	899	Education	Classroom (ages 5-8)	25	23	10.0	0.12	0.8	550	0.6	100%	550	422	0.47	
6	classroom K-2	945	Education	Classroom (ages 5-8)	25	24	10.0	0.12	0.8	550	0.6	100%	550	442	0.47	
9	R/SR	345	Education	Classroom (ages 5-8)	25	9	10.0	0.12	0.8	225	0.7	100%	225	164	0.48	
12	classroom	920	Education	Classroom (ages 5-8)	25	23	10.0	0.12	0.8	550	0.6	100%	550	426	0.46	
13	classroom	885	Education	Classroom (ages 5-8)	25	23	10.0	0.12	0.8	525	0.6	100%	525	420	0.47	
14	classroom	920	Education	Classroom (ages 5-8)	25	23	10.0	0.12	0.8	550	0.6	100%	550	426	0.46	
15	classroom	890	Education	Classroom (ages 5-8)	25	23	10.0	0.12	0.8	550	0.6	100%	550	421	0.47	
16	classroom	902	Education	Classroom (ages 5-8)	25	23	10.0	0.12	0.8	550	0.6	100%	550	423	0.47	
17	classroom	902	Education	Classroom (ages 5-8)	25	23	10.0	0.12	0.8	550	0.6	100%	550	423	0.47	
21	classroom	940	Education	Classroom (ages 5-8)	25	24	10.0	0.12	0.8	550	0.6	100%	550	441	0.47	
22	classroom	918	Education	Classroom (ages 5-8)	25	23	10.0	0.12	0.8	550	0.6	100%	550	425	0.46	
24	Spec Ed Classroom	674	Education	Classroom (ages 5-8)	25	17	10.0	0.12	0.8	425	0.6	100%	425	314	0.47	
24A	R/R	140	Education	Classroom (ages 5-8)	25	4	10.0	0.12	0.8	100	0.7	100%	100	71	0.51	
25B	Read Room	1,129	Education	Classroom (ages 5-8)	25	29	10.0	0.12	0.8	575	0.5	100%	575	532	0.47	
26	Classroom SE	1,003	Education	Classroom (ages 5-8)	25	26	10.0	0.12	0.8	550	0.5	100%	550	475	0.47	
28	classroom	838	Education	Classroom (ages 5-8)	25	24	10.0	0.12	0.8	550	0.6	100%	550	441	0.47	
29	classroom	955	Education	Classroom (ages 5-8)	25	24	10.0	0.12	0.8	550	0.6	100%	550	443	0.46	
30	classroom	921	Education	Classroom (ages 5-8)	25	24	10.0	0.12	0.8	550	0.6	100%	550	438	0.48	
31	classroom	961	Education	Classroom (ages 5-8)	25	25	10.0	0.12	0.8	550	0.6	100%	550	457	0.48	
32	classroom	965	Education	Classroom (ages 5-8)	25	25	10.0	0.12	0.8	550	0.6	100%	550	457	0.47	
35	classroom	948	Education	Classroom (ages 9 plus)	35	34	10.0	0.12	0.8	550	0.6	100%	575	567	0.60	
36	SGI	665	Education	Classroom (ages 9 plus)	35	24	10.0	0.12	0.8	425	0.6	100%	425	400	0.60	
37	art classroom	1191	Education	Art Classroom	20	24	10.0	0.18	0.8	750	0.6	850	100%	750	568	0.48
TOTALS		21,200			1,000	2,019	10.0	0.12	0.8	9,000	0.6	100%	9,000	6,246	0.46	

### ENERGY RECOVERY AIR HANDLING UNIT SCHEDULE

DESIGNATION	ERV-1	ERV-2	ERV-3	ERV-4	ERV-5	ERV-6	ERV-7
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
AREA SERVED	CLASSROOMS	CLASSROOMS	CLASSROOMS	CLASSROOMS	CLASSROOMS	CLASSROOMS	CLASSROOMS
MANUFACTURER	LG	LG	LG	LG	LG	LG	LG
MODEL	ARND30UDEB4	ARND30UDEB4	ARND30UDEB4	ARDE-112-36-30L-5A	ARND30UDEB4	ARND30UDEB4	ARND30UDEB4
WEIGHT (LBS)	2,161	2,161	2,161	3,344	2,161	2,161	2,161
DESIGN DATA:							
SUPPLY AIR (CFM)	2,150	2,525	2,175	1,150	2,000	2,300	2,300
OUTDOOR AIR (CFM)	2,150	2,525	2,175	1,150	2,000	2,300	2,400
RETURN AIR (CFM)	-	-	-	-	-	-	-
EXHAUST (CFM)	2,150	2,525	2,175	1,150	2,000	2,300	2,400
SUMMER OA TEMP (°F) DBWB	91.9/75	91.9/75	91.9/75	91.9/75	91.9/75	91.9/75	91.9/75
SUMMER RA TEMP (°F) DBWB	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5	75/62.5
WINTER OA TEMP (°F)	10.9	10.9	10.9	10.9	10.9	10.9	10.9
WINTER RA TEMP (°F)	70	70	70	70	70	70	70
SUMMER / WINTER DESIGN SAT (°F)	70/68	70/68	70/68	70/68	70/68	70/68	70/68

DESIGN AIRFLOW (CFM)	ERV-1	ERV-2	ERV-3	ERV-4	ERV-5	ERV-6	ERV-7
HP/BHP	10/1.8	10/2	10/1.8	1,50/5.9	10/1.8	10/1.9	10/2
RPM	2030	2065	2033	1755	2022	2043	2053
ESP (IN H <sub>2</sub> O)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VOLTS/∅/Hz	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
STARTER TYPE	VFD						

DESIGN OUTDOOR AIR (CFM)	ERV-1	ERV-2	ERV-3	ERV-4	ERV-5	ERV-6	ERV-7
SUMMER RECOVERY SEN./TOT (MBH)	24.2/46.8	34.2/55.8	32.3/64.9	17.9/39.8	29.5/63.9	33.9/73.5	35.9/78.5
SUMMER E.A.T. (°F) DBWB	91.9/73.9	91.9/73.9	91.9/73.9	91.9/73.9	91.9/73.9	91.9/73.9	91.9/73.9
SUMMER L.A.T. (°F) DBWB	78.9/65.6	79.4/66	78.2/65.1	77.6/64.8	78.1/64.9	78.3/65.3	78.1/65.1
WINTER RECOVERY (MBH)	119.8	121.9	63.8	113.5	93	113.5	120.5
WINTER E.A.T./L.A.T. (DB)(°F)	10.9/47.4	10/54.2	10.9/47.2	10/61.4	10/47.5	10/46.8	10/47.3

DESIGN EXHAUST AIR (CFM)	ERV-1	ERV-2	ERV-3	ERV-4	ERV-5	ERV-6	ERV-7
(COOLING) CAPACITY (MBH)	81.8	96.7	78.9	65	78.0	83.6	78.3
(HEATING) E.A.T./L.A.T. (°F)	47.4/75	46/75	47.2/75	61.4/75	47.5/75	46.8/75	47.3/75
(HEATING) CAPACITY (MBH)	91.2	113.9	94	27.2	88.4	100.9	92.6

HOT GAS REHEAT:	ERV-1	ERV-2	ERV-3	ERV-4	ERV-5	ERV-6	ERV-7
CAPACITY (MBH)	42.6	41.1	35.4	18.7	32.6	37.4	35

SECONDARY HEAT (ELECTRIC)	ERV-1	ERV-2	ERV-3	ERV-4	ERV-5	ERV-6	ERV-7
CAPACITY (BTU)	-	-	-	41.8	-	-	-

DESIGN AIRFLOW (CFM)	ERV-1	ERV-2	ERV-3	ERV-4	ERV-5	ERV-6	ERV-7
HP/BHP	10/1.8	10/2	10/1.8	1,50/5.2	10/1.7	10/1.9	10/2
RPM	2030	2065	2033	1755	2022	2043	2053
ESP (IN H <sub>2</sub> O)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
STARTER TYPE	VFD	VFD	VFD	VFD	VFD	VFD	VFD

AIR HANDLING UNIT SINGLE POINT POWER CONNECTION:	ERV-1	ERV-2	ERV-3	ERV-4	ERV-5	ERV-6	ERV-7
VOLTS/∅/Hz	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
MCA/MOCP (AMPS)	24.8/40	24.8/40	24.8/40	75.3/80	24.8/40	24.8/40	24.8/40

CONDENSING UNIT:	ERV-1	ERV-2	ERV-3	ERV-4	ERV-5	ERV-6	ERV-7
DESIGNATION	ACU-1	ACU-2	ACU-3	-	ACU-5	ACU-6	ACU-7
MANUFACTURER	LG	LG	LG	-	LG	LG	LG
MODEL	ARUM121BTE5	ARUM121BTE5	ARUM121BTE5	-	ARUM121BTE5	ARUM121BTE5	ARUM121BTE5
NOMINAL CAPACITY (MBH) (COOLING)	120	120	120	-	120	120	120
NOMINAL CAPACITY (MBH) (HEATING)	135	135	135	-	135	135	135

CONDENSING UNIT POWER CONNECTION:	ERV-1	ERV-2	ERV-3	ERV-4	ERV-5	ERV-6	ERV-7
VOLTS/∅/Hz	208/3/60	208/3/60	208/3/60	-	208/3/60	208/3/60	208/3/60
MCA/MOCP (AMPS)	30.9/40	30.9/40	30.9/40	-	30.9/40	30.9/40	30.9/40

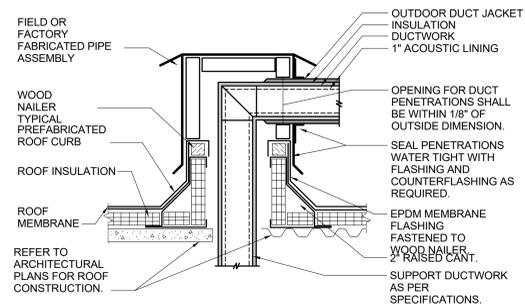
- NOTES:**
- PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
    - ENTHALPY BASED MODULATING ECONOMIZER
    - FACTORY SUPPLIED AND MOUNTED VARIABLE FREQUENCY DRIVES
    - BACNET FACTORY ACTIVATION
    - GFCI CONVENIENCE OUTLET
    - HOT GAS REHEAT COIL
    - SIDE SUPPLY AND RETURN CONNECTIONS
    - DUCT TEMPERATURE SENSOR TO ALLOW FOR SUPPLY AIR TEMPERATURE CONTROL
    - UNIT SHALL BE MOUNTED ON NEW 24" VIBRATION ISOLATION ROOFTOP CURBS. COORDINATE ALL ROOF WORK WITH THE ROOFING CONTRACTOR.
  - PROVIDE THE FOLLOWING OPTIONAL EQUIPMENT FOR EACH UNIT:
    - 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL.
    - FURNISH EXTRA DRIVE BELT (AS APPLICABLE) AND EXTRA FILTER SET FOR EACH UNIT.
    - COORDINATE LEFT/RIGHT COIL CONNECTION AND FAN DRIVE IN FIELD.
    - ALL MODULATING DAMPERS SHALL BE OPPOSED-BLADE TYPE. OPEN/CLOSE DAMPERS MAY BE PARALLEL-BLADE TYPE.
  - PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR EACH UNIT:
    - UNITARY CONTROLLER BY EQUIPMENT MANUFACTURER, COMPATIBLE WITH THE BUILDING BMS. ALL CONTROLS TO BE REVIEWED AND COORDINATED WITH THE CONTROLS CONTRACTOR.
    - ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
    - ALL MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
    - CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.

### EQUIPMENT NOTES

- RETURN REGISTER (RR):** SHALL BE TITUS MODEL 35FL ALUMINUM CONSTRUCTION, WITH 1/2" SPACING, 35" FIXED DEFLECTION AIRFOIL BLADES, OPPOSED BLADE VOLUME DAMPER IN NECK, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.
- SIDE WALL SUPPLY REGISTERS (SR):** SHALL BE TITUS MODEL 300FS, ALUMINUM CONSTRUCTION, WITH 3/4" SPACING, DOUBLE DEFLECTION AIRFOIL BLADES, OPPOSED BLADE VOLUME DAMPER IN NECK, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.
- SQUARE CEILING DIFFUSERS (CD):** SHALL BE TITUS MODEL TDC, STEEL CONSTRUCTION, WITH ROUND NECK, OPPOSED BLADE VOLUME DAMPER IN NECK, MODULE SIZE, NECK SIZE, AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.
- FIRE DAMPERS:** SHALL BE RUSKIN MODEL DRB-2, 1-1/2 HOUR UL555 RATED, SUITABLE FOR INSTALLATION IN WALL AND FLOOR PARTITIONS WITH FIRE RATINGS OF LESS THAN 3 HOURS. DAMPER SHALL BE A COMPLETE FACTORY PACKAGE INCLUDING UL APPROVED ANGLES, WALL SLEEVE, AND BREAKAWAY CONNECTIONS. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000 FPM AND 4.0" SP.
- COMBINATION FIRE/SMOKE DAMPERS:** SHALL BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A AND UL LABELS. RUSKIN MODEL FSD40 (RECTANGULAR DUCTWORK) OR FSDR25 (ROUND DUCTWORK) UL 555 AND UL 555 OPPOSED BLADE DAMPER, HIGH PERFORMANCE AND LOW LEAKAGE CLASS 1. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000 FPM AND 4.0" SP. FURNISH UL RATED ELECTRIC DAMPER ACTUATOR AND CONTROL SWITCHES AS REQUIRED. DAMPER SHALL BE FURNISHED WITH FACTORY WELDED INTEGRAL WALL SLEEVE, FRAME MOUNTING ANGLE, C-STYLE WITH 3/4" MOUNTING FLANGE, AND EITHER DUCTMATE OR SLIP DRIVE BREAK AWAY CONNECTIONS. 120V/1/60Hz; 0.25 AMPS; 23 WATTS. COORDINATE C.C.W ROTATION IN FIELD. FURNISH DISCONNECT AND END SWITCH. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN THE DUCTWORK BY THE MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE ACCESS DOORS IN DUCTWORK AT SMOKE DETECTOR LOCATIONS AS REQUIRED.
- MOTORIZED DAMPERS:** SHALL BE RUSKIN MODEL CD40, 4" DEEP EXTRUDED ALUMINUM AIRFOIL DAMPER. DAMPER SHALL HAVE OPPOSED SLIDING SEAM. INSTALL WITH AEROFLEX ADHESIVES. GLUE ALL BUTT JOINTS AND SEAM AND TAPE WITH EPDM TAPE. PERMEABILITY SHALL BE 0.01 PER INCH. K<sub>v</sub> 245.
- DUCT PENETRATION ROOF CURBS:** SHALL BE PREFABRICATED ROOF CURB BASED ON THYCURB MODEL TC-3, CUSTOM 12" HIGH ROOF CURB ASSEMBLY WITH 1-1/2" THICK 3 LB RIGID INSULATION, 18 GAUGE GALVANIZED STEEL SHELL AND BASE PLATE, AND 1" MAILING STRIP. ALL FASTENERS SHALL BE GALVANIZED STEEL OR NICKEL PLATED. PROVIDE FLASHING AND COUNTER FLASHING FOR A WATERTIGHT SEAL. CURBS SHALL BE CUSTOM FABRICATED. CONTRACTOR TO VERIFY EXACT ROOF PITCH ANGLE IN FIELD.
- PIPE PENETRATION ROOF CURBS:** SHALL BE PATE MODEL PCA-5. PIPE CURB ASSEMBLY SHALL CONSIST OF 18 GAUGE GALVANIZED STEEL ROOF CURB, UNITARY CONSTRUCTION, WITH INTEGRAL BASE PLATE, 1-1/2" INSULATION, 2x2 TREATED WOOD NAILER, ACRYLIC CLAD THERMOPLASTIC COVER, FASTENING SCREWS, & GRADUATED STEP BOOTS WITH STAINLESS STEEL CLAMPS. CONTRACTOR TO SELECT CAP & BOOT CAPACITY BASED ON QUANTITY & SIZE OF PIPE PENETRATIONS. PROVIDE FLASHING AND COUNTER FLASHING FOR A WATERTIGHT SEAL. CURBS SHALL BE CUSTOM FABRICATED, SUCH THAT THE CAP IS MOUNTED LEVEL. CONTRACTOR TO VERIFY EXACT ROOF PITCH ANGLE IN FIELD.
- DUCT INSULATION (INTERIOR):** SHALL BE OWENS CORNING 2" MIN. 700 SERIES TYPE 705, 6.0 PEF RIGID FIBER GLASS BOARD WITH POLY ENCAPSULATED ABS MAX FACING WITH K FACTOR OF .25 AT 100 DEG FAHRENHEIT MEAN TEMPERATURE INSULATION SHALL BE NO LESS THEN THE HEIGHT OF DUCT STANDING SEAM.
- DUCT INSULATION (EXTERIOR):** SHALL BE AEROFLEX/AEROCEL WLP EPDM SHEET OR ROLL, MINIMUM OF 2" BUT NOT LESS THAN THE DUCT STANDING SEAM. INSTALL WITH AEROFLEX ADHESIVES. GLUE ALL BUTT JOINTS AND SEAM AND TAPE WITH EPDM TAPE. PERMEABILITY SHALL BE 0.01 PER INCH. K<sub>v</sub> 245.
- PIPE INSULATION (INTERIOR):** INTERIOR SHALL BE JOHNS MANVILLE MICROLOK FIBERGLASS K FACTOR .24 AT 100 DEGREE FAHRENHEIT MEAN TEMP 2" THICK WITH WHITE ALL SERVICE JACKET (ASJ) WITH FLAME AND SMOKE SPREAD RATING OF LESS THAN 50/25. PROVIDE ZESTOY 2000 PVC JACKETING ON ALL INTERIOR INSULATED PIPES. HUW, CHW, CW.
- PIPE INSULATION (EXTERIOR):** SHALL BE AEROFLEX/AEROCEL WLP EPDM TUBE OR SHEET FOR PIPING WITH PREMOULDED PIPE FITTING INSULATION. INSTALL WITH AEROFLEX EPDM TAPE. PERMEABILITY SHALL BE .01 PER INCH. K<sub>v</sub> 245. FINISH WITH ARMACELL ARMAFLEX WB MASTIC FINISH.
- EXTERIOR DUCT JACKET:** SHALL BE POLYGUARD-ALUMAGUARD ALL WEATHER JACKET. COMPOSIT MEMBRANE CONSISTING OF MULTIPLE UV RESISTANT ALUMINUM FOIL POLYMER LAMINATE.

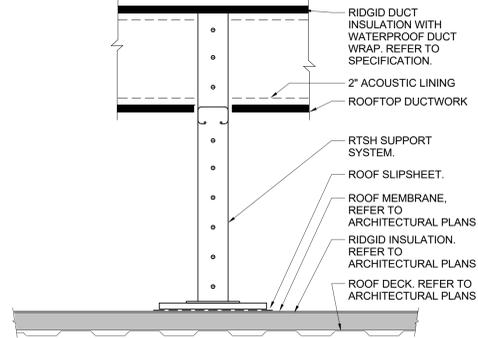
### VRV SYSTEM - INDOOR HEAT PUMP UNIT SCHEDULE

INDOOR UNIT DESIGNATION	AC-A	AC-B	AC-C	AC-D
MANUFACTURER	LG	LG	LG	LG
MODEL	ARNU053SJA4	ARNU123SKA4	ARNU153	



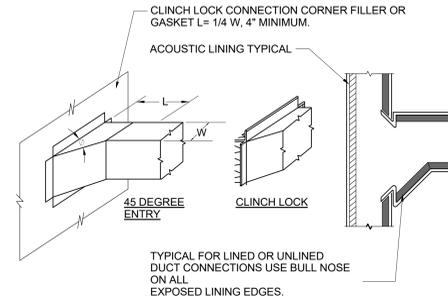
- NOTES:**
1. PREFABRICATED ROOF CURB AND BOX ASSEMBLY BASED ON CUSTOM CURB INC. MODEL CPBA-1 CUSTOM ROOF CURB BOX ASSEMBLY WITH 1.5 INCH THICK 3.5 POUND RIGID INSULATION, 18 GAUGE GALVANIZED STEEL SHELL AND BASE PLATE, AND 0.050 ALUMINUM PIPE BOX.
  2. CONTRACTOR SHALL PROVIDE ALL FLASHING, COUNTERFLASHING, AND ANY OTHER MATERIALS AND LABOR NECESSARY TO ENSURE A WATERTIGHT ROOF PENETRATION ENCLOSURE.

**11 ROOF DUCT BOX DETAIL**  
SCALE: NONE

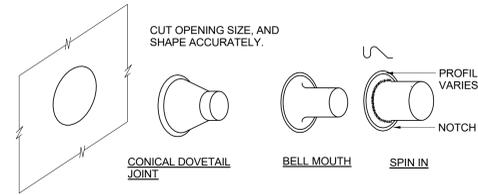


- NOTES:**
- 1.) ROOF DUCT SUPPORT SHALL BE ROOFTOP SUPPORT SYSTEMS RTSH WITH RTSF21 BASE, 13-1/2" NOMINAL HEIGHT, MINIMUM LENGTH SHALL BE 48" OR 12" LONGER THAN DUCT WIDTH.
  - 2.) ALL BRACKETS, HANGERS, FASTENERS AND SUPPORTS LOCATED OUTDOORS SHALL BE GALVANIZED OR NICKEL PLATED.

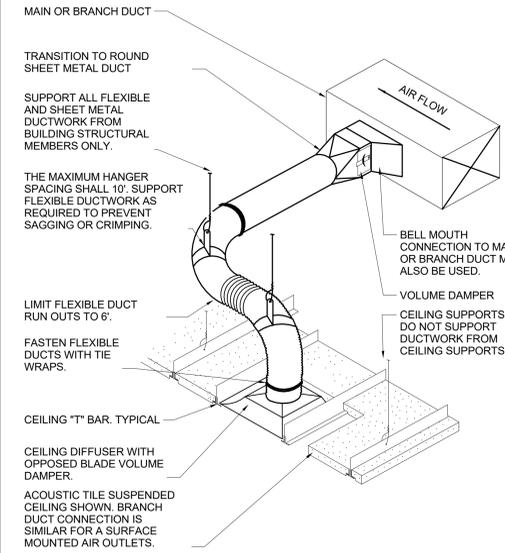
**7 ROOF DUCT SUPPORT DETAIL**  
SCALE: NONE



CLOSE ALL OPENINGS AT CORNERS WITH FILLER PIECE OR GASKET.

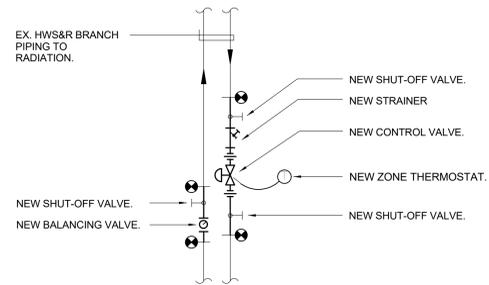


**4 DUCT BRANCH CONNECTION DETAIL**  
SCALE: NONE



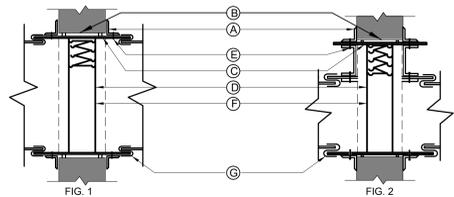
- NOTES:**
1. THIS BRANCH DUCT ARRANGEMENT IS SIMILAR FOR PLENUM SLOT DIFFUSERS.

**2 FLEXIBLE DUCT CONNECTION DETAIL**  
SCALE: NONE



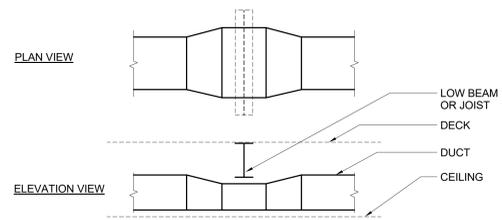
- NOTES:**
- 1.) DEMOLISH EXISTING BALANCING VALVE & SHUT-OFF VALVES.
  - 2.) PROVIDE NEW 2-WAY CONTROL VALVE IN EXISTING HWS BRANCH PIPING TO RADIATION.
  - 3.) PROVIDE NEW BALANCING VALVE IN EXISTING HWR BRANCH PIPING TO RADIATION.
  - 4.) COORDINATE EXACT LOCATION OF NEW VALVES IN THE FIELD.
  - 5.) REFER TO PLANS FOR SIZES OF EXISTING HWS&R BRANCHES.
  - 6.) EACH SET OF RADIATION SHALL BE RE-BALANCED TO 5.0 GPM, OR AS OTHERWISE NOTED ON PLAN.

**10 HOT WATER CONTROL VALVE PIPING SCHEMATIC**  
SCALE: NONE



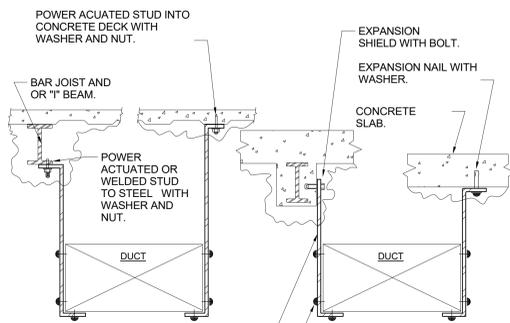
- NOTES:**
1. RETAINING ANGLES SHALL BE A MINIMUM 1-1/2"x1-1/2"x16 GAUGE AND MUST OVERLAP THE STRUCTURAL OPENING BY A MINIMUM OF 1".
  2. CLEARANCE BETWEEN SLEEVE AND OPENING SHALL BE 1/8" PER LINEAR FOOT, AS PER SMACNA FIG. 2-1.
  3. STEEL SLEEVE SHALL BE AS PER SMACNA TABLE 2-2.
  4. U.L. APPROVED FIRE DAMPER.
  5. SECURE RETAINING ANGLES TO SLEEVE ONLY AT 8" CENTERS AS PER SMACNA FIG. 2-1.
  6. SECURE DAMPER TO SLEEVE AT 8" CENTERS AS PER SMACNA FIG. 2-1.
  7. CONNECT DUCT TO SLEEVE WITH BREAK-AWAY CONNECTION AS PER SMACNA FIG. 2-2.
  8. 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.
  9. CURTAIN TYPE FIRE DAMPERS SHOWN, MULTI-BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE.
  10. PROVIDE ACCESS DOORS. INSTALL (1) AD FOR EACH FIRE DAMPER AS PER SMACNA FIG. 6-1.
  11. FOR DUCT 12" OR LESS IN DEPTH, FIRE DAMPER SHALL BE OUT OF THE AIR STREAM. REFER TO FIGURE 2.

**6 SHUTTER TYPE FIRE DAMPER AND SLEEVE DETAIL**  
SCALE: NONE



- NOTES:**
1. WHERE INDICATED ON THE PLANS, OR REQUIRED DUE TO FIELD CONDITIONS, THE CONTRACTOR SHALL ROUTE DUCTWORK UNDER LOW BEAMS OR JOISTS IN THE MANNER INDICATED ABOVE.
  2. REDUCE DUCT HEIGHT AT THE CROSSING IN ORDER TO FIT UNDER THE BEAM OR JOIST.
  3. INCREASE DUCT WIDTH AT THE CROSSING IN ORDER TO MAINTAIN THE SAME CROSS SECTIONAL AREA.
  4. USE SMACNA APPROVED TRANSITIONS.

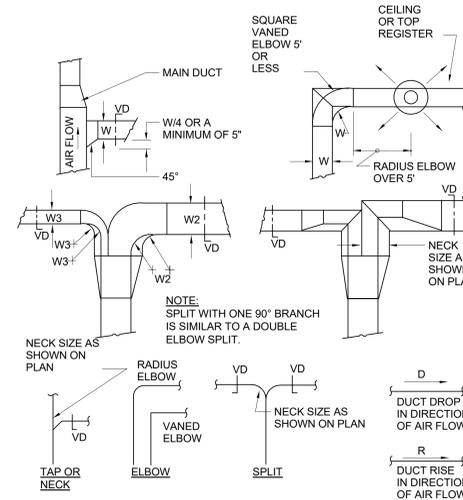
**9 DUCT UNDER LOW BEAM DETAIL**  
SCALE: NONE



- NOTES:**
1. FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.
  2. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

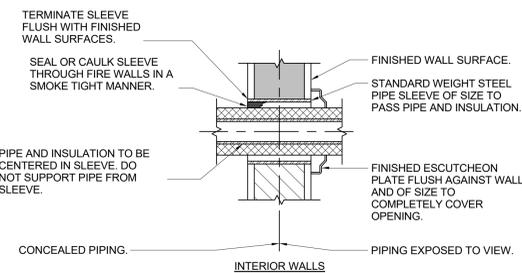
HANGER STRAP SCHEDULE		
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UP TO 2 SQ. FT.	1" x 1/8"	8'-0"
2 SQ. FT. TO 4 SQ. FT.	1" x 3/8"	8'-0"
4 SQ. FT. TO 10 SQ. FT.	1" x 1/2"	6'-0"
OVER 10 SQ. FT.	1" x 3/4"	4'-0"

**5 DUCT HANGER DETAIL**  
SCALE: NONE

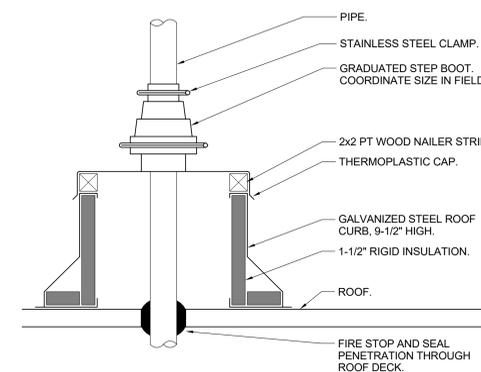


- NOTES:**
1. SINGLE LINE REPRESENTATIONS REFER TO DOUBLE LINE DETAILS.
  2. USE RADIUS OR SQUARE VANED BENDS FOR BOTH ELBOWS AND SPLITS AS DETERMINED BY SPACE LIMITATIONS, AND THE DISTANCE FROM AIR OUTLETS.
  3. ALL SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, AND MAINTAIN A CONSTANT WIDTH.
  4. WHERE DUCTS SPLIT, THE SOLID LINE REPRESENTATION IS PREFERRED, UNLESS PRECLUDED BY SPACE, OR OTHERWISE INDICATED.
  5. USE ELBOW SPLIT FOR BRANCH CONNECTIONS ONLY WHERE NECK SIZE IS GIVEN.

**3 DUCT BRANCH TAKE-OFF DETAIL**  
SCALE: NONE

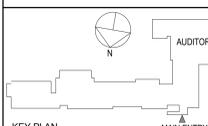


**8 PIPE WALL SLEEVE DETAIL FOR INTERIOR WALLS**  
SCALE: NONE



- NOTES:**
- 1.) PIPE PENETRATION ROOF CURBS SHALL BE PATE MODEL PCA-5, 9-1/2" HIGH, PIPE CURB ASSEMBLY SHALL CONSIST OF 18 GAUGE GALVANIZED STEEL ROOF CURB, UNITARY CONSTRUCTION, WITH INTEGRAL BASE PLATE, 1-1/2" INSULATION, 2x2 TREATED WOOD NAILER, ACRYLIC CLAD THERMOPLASTIC COVER, FASTENING SCREWS, & GRADUATED STEP BOOTS WITH STAINLESS STEEL CLAMPS.
  - 2.) CONTRACTOR TO SELECT CAP & BOOT PACKAGE BASED ON QUANTITY & SIZE OF PIPE PENETRATIONS. PROVIDE FLASHING AND COUNTER FLASHING FOR A WATERTIGHT SEAL.
  - 3.) CURBS SHALL BE CUSTOM FABRICATED, SUCH THAT THE CAP IS MOUNTED LEVEL.
  - 4.) CONTRACTOR TO VERIFY EXACT ROOF PITCH ANGLE IN FIELD.
- COORDINATE QUANTITIES AND SIZES OF PIPE PENETRATIONS IN THE FIELD WITH CAP AND BOOT REQUIREMENTS.

**1 ROOF PIPE PENETRATION CURB ASSEMBLY DETAIL**  
SCALE: NONE



**KEY PLAN**  
AUDITORIUM  
MAIN ENTRY

NOTE: ALL MECH. SPECIAL ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF ARCHITECTS. CONTRACTOR SHALL VERIFY ALL ACTUAL CONDITIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DRAWINGS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL, BEFORE PROCEEDING WITH FABRICATION.

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Professional Seal



12/04/2023 ISSUED FOR BID

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**MECHANICAL DETAILS**

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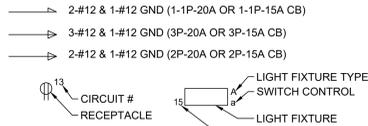
**M701**

**SYMBOLS AND ABBREVIATIONS**

SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
—	-	CONDUIT AND WIRING	MD	-	SECURITY MOTION DETECTOR
----	-	CONDUIT & WIRING TO BE REMOVED UON	KP	-	KEY PAD
---UG---	-	BURIED CONDUIT	PA	-	PANIC ALARM
—OH—	-	OVERHEAD CONDUCTORS	CB	-	CIRCUIT BREAKER
⚡	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P	CB	-	CIRCUIT BREAKER
←	-	MULTI-POLE HOMERUN	ENC	-	ENCLOSED CIRCUIT BREAKER
□	-	ELECTRICAL EQUIPMENT AS INDICATED	FUS	-	FUSED SWITCH
□	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON	GND	-	GROUND AS PER LOCAL CODE
M	-	ELECTRIC METER	TT	-	GROUND BAR
J	-	JUNCTION BOX	OR	-	GROUND ROD
⊠	-	FUSED DISCONNECT SWITCH	TS	-	TRANSFER SWITCH
□	-	UNFUSED DISCONNECT SWITCH	XFMR	-	TRANSFORMER
⊠	-	COMBINATION MOTOR STARTER/FUSED DISC.	CT	-	CURRENT TRANSFORMER
⊠	-	MOTOR STARTER	U	-	UTILITY POLE
⊠	-	MOTOR	WM	-	WATER MAIN
⊠	-	BATTERY PACK EMERGENCY LIGHT FIXTURE	B	-	BOILER BREAK GLASS STATION
⊠	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW	NC	-	NORMALLY CLOSED CONTACTS
S <sub>x</sub>	-	SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)	NO	-	NORMALLY OPEN CONTACTS
S <sub>x</sub> <sup>3</sup>	-	THREE WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)	CV	-	CONTROL VALVE
S <sub>x</sub> <sup>4</sup>	-	FOUR WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)	MD	-	MOTORIZED DAMPER
S <sub>x</sub> <sup>DM</sup>	-	DIMMER SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)	SD OR CFSD	-	SMOKE DAMPER
S <sub>M</sub>	-	MOTOR RATED TOGGLE SWITCH	UH	-	UNIT HEATER
S <sub>K</sub>	-	KEY OPERATED SINGLE POLE SWITCH	CL	-	CLOCK
S <sub>V</sub>	-	SPEED CONTROLLER (FB0)	A	-	AMPERE(S)
⊠	-	WALL MOUNTED OCCUPANCY SENSOR	AC	-	AIR CONDITIONER
⊠	-	CEILING MOUNTED OCCUPANCY SENSOR	ACC	-	AIR CONDITIONER CONDENSER
⊠ <sup>V</sup>	-	CEILING MOUNTED VACANCY SENSOR	AFF	-	ABOVE FINISHED FLOOR
⊠	-	CEILING MOUNTED PHOTO CELL	AF	-	AMPERAGE OF FUSE
⊠	-	DUPLEX RECEPTACLE	AGL	-	ABOVE GRADE LEVEL
⊠	-	DOUBLE DUPLEX RECEPTACLE	AHU	-	AIR HANDLING UNIT
⊠	-	SPECIAL RECEPTACLE	AL	-	ALUMINIUM
▽	-	TELEPHONE OUTLET	ARC	-	ARC FAULT INTERRUPTER
▼ <sup>x</sup>	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)	AS	-	AMPERAGE OF SWITCH
▽	-	COMBINATION TELEPHONE/DATA OUTLET	AWG	-	AMERICAN WIRE GAUGE
⊠	-	COMBINATION DATA & TV OUTLET	BCW	-	BARE COPPER WIRE
F	-	FIRE ALARM MANUAL PULL STATION	BLDG	-	BUILDING
⊠	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE), V - VOICE NOTIFICATION	BMS	-	BUILDING MANAGEMENT SYSTEM
⊠	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE), V - VOICE NOTIFICATION	C	-	CONDUIT
⊠	-	FIRE ALARM STROBE 15/75 CD	CD	-	CANDELA
⊠ <sup>110</sup>	-	FIRE ALARM STROBE 110 CD	CKT	-	CIRCUIT
⊠ <sup>SB</sup>	SB	FIRE ALARM DEVICE, SB - SOUNDER BASE FOR SMOKE OR CARBON MONOXIDE DETECTOR	CLG	-	CEILING
S	-	SMOKE DETECTOR	COL	-	COLUMN
S <sub>AC</sub>	-	DUCT MOUNTED SMOKE DETECTOR	CU	-	COPPER
H	-	HEAT DETECTOR	CUH	-	CABINET UNIT HEATER
CO	-	CARBON MONOXIDE DETECTOR	DEM.	-	DEMOLISH AND REMOVE
DH	-	FIRE ALARM DOOR RELEASE	DISC	-	DISCONNECT
ANN	-	FIRE ALARM ANNUNCIATOR PANEL	DIM	-	DIMMER
CM	CM	FIRE ALARM CONTROL MODULE	DWG	-	DRAWING
MM	MM	FIRE ALARM MONITORING MODULE	EMT	-	ELECTRICAL METALLIC TUBING
FACP	FACP	FIRE ALARM CONTROL PANEL	EM	-	EMERGENCY
BPS	BPS	BOOSTER POWER SUPPLY	EX.	-	EXISTING TO REMAIN
DGP	DGP	DATA GATHERING PANEL	F	-	FLOOR
FCS	FCS	FIRE COMMAND STATION	FBO	-	FURNISHED BY OTHERS
FSS	FSS	FIRE SUPPRESSION SYSTEM PANEL	FC	-	FAN COIL UNIT
R	-	FIRE ALARM RELAY	GEN	-	GENERATOR
~w~	EOL	END OF LINE RESISTOR	GFI	-	GROUND FAULT INTERRUPTER
⊠ <sup>V</sup>	-	CEILING MOUNTED FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE), V - VOICE NOTIFICATION	HP	-	HORSEPOWER
⊠ <sup>110</sup> <sub>V</sub>	-	CEILING MOUNTED FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE), V - VOICE NOTIFICATION	HVAC	-	HEATING VENTILATION AIR CONDITIONING
⊠	-	WALL MOUNTED PUBLIC ADDRESS SPEAKER	IMC	-	INTERMEDIATE METAL CONDUIT
⊠	-	PUBLIC ADDRESS TELEPHONE	KVA	-	KILO-VOLT-AMPERE
⊠	-	CEILING MOUNTED PUBLIC ADDRESS SPEAKER	KW	-	KILO-WATT
⊠	-	PUBLIC ADDRESS BELL	MAX	-	MAXIMUM
⊠	-	CAMERA	MCB	-	MAIN CIRCUIT BREAKER
⊠	-	TIME CLOCK	MIN	-	MINIMUM
⊠	-	ELECTRIC DOOR STRIKE	MLO	-	MAIN LUG ONLY
			NIC	-	NOT IN CONTRACT
			NL	-	NIGHT LIGHT
			NTS	-	NOT TO SCALE
			OH	-	OVERHEAD
			P	-	POLE
			PBO	-	PROVIDED BY OTHERS
			PNL	-	PANEL
			PVC	-	POLY VINYL CHLORIDE
			REL	-	REMOVE AND RELOCATE
			REM.	-	REMOVE AND REINSTALL
			RTU	-	ROOF TOP UNIT

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

**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.

**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 EQUIPMENTS/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 BY OTHERS.
- COMMUNICATION WIRING BY OTHERS, COORDINATE COMMUNICATION JACKS WITH REPRESENTATIVE, TYPICAL.
- WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
- INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
- CEILING MOUNTED RECEPTACLES 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 (4) 1P-20A CIRCUITS ON EACH LEVEL (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 - PPC-65.67
- 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.
- ALL CONDUITS TO BE RECESSED IN NEW WALLS. SURFACE MOUNTED CONDUITS WILL ONLY BE ACCEPTED IN EXISTING AREAS WHERE ABSOLUTELY NECESSARY.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING CEILINGS IN AREAS OF WORK WHERE THE CEILINGS ARE DUE TO REMAIN. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING TO REMAIN CEILINGS OR CEILING TILES CAUSE BY THE ELECTRICAL SCOPE OF WORK.

**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 "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT MUST BE UNDERSTOOD THAT "VERIZON" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "FIRE ALARM SYSTEM" OR "FIRE ALARM VENDOR" ARE USED, IT MUST BE UNDERSTOOD THAT "FIRE SYSTEMS" 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:
  - "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.
  - "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.
  - "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.
  - "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**

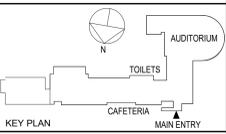
- ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGIN UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
- CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, 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.

**WILLIAM E. COTTLE**  
ELEMENTARY SCHOOL ADDITIONS & ALTERATIONS  
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olace.com

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**66-03-02-03-0-001-020**  
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Sheet Title

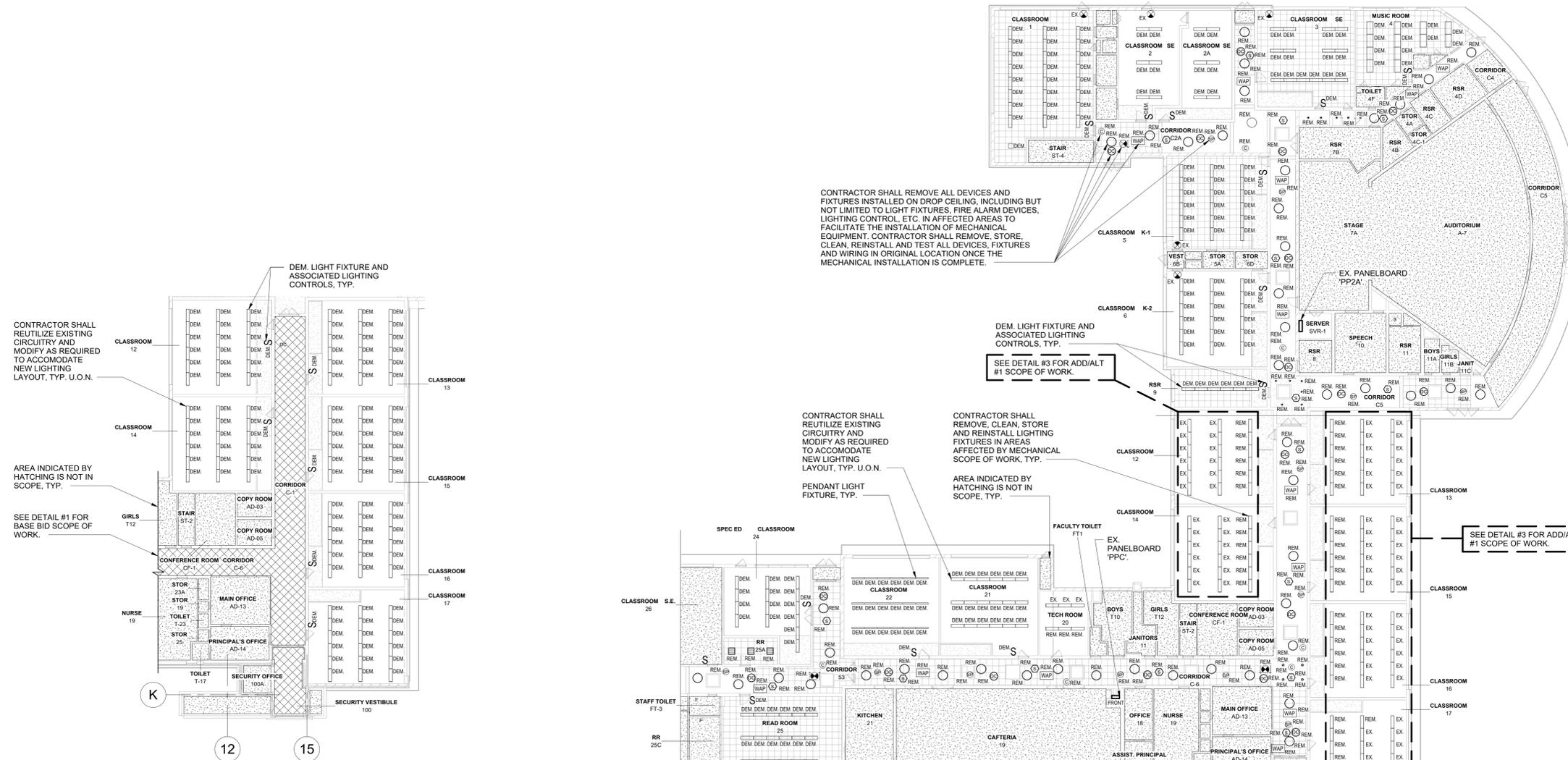
**ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES**

Job No. NKG02238.00 Date 12/04/2023

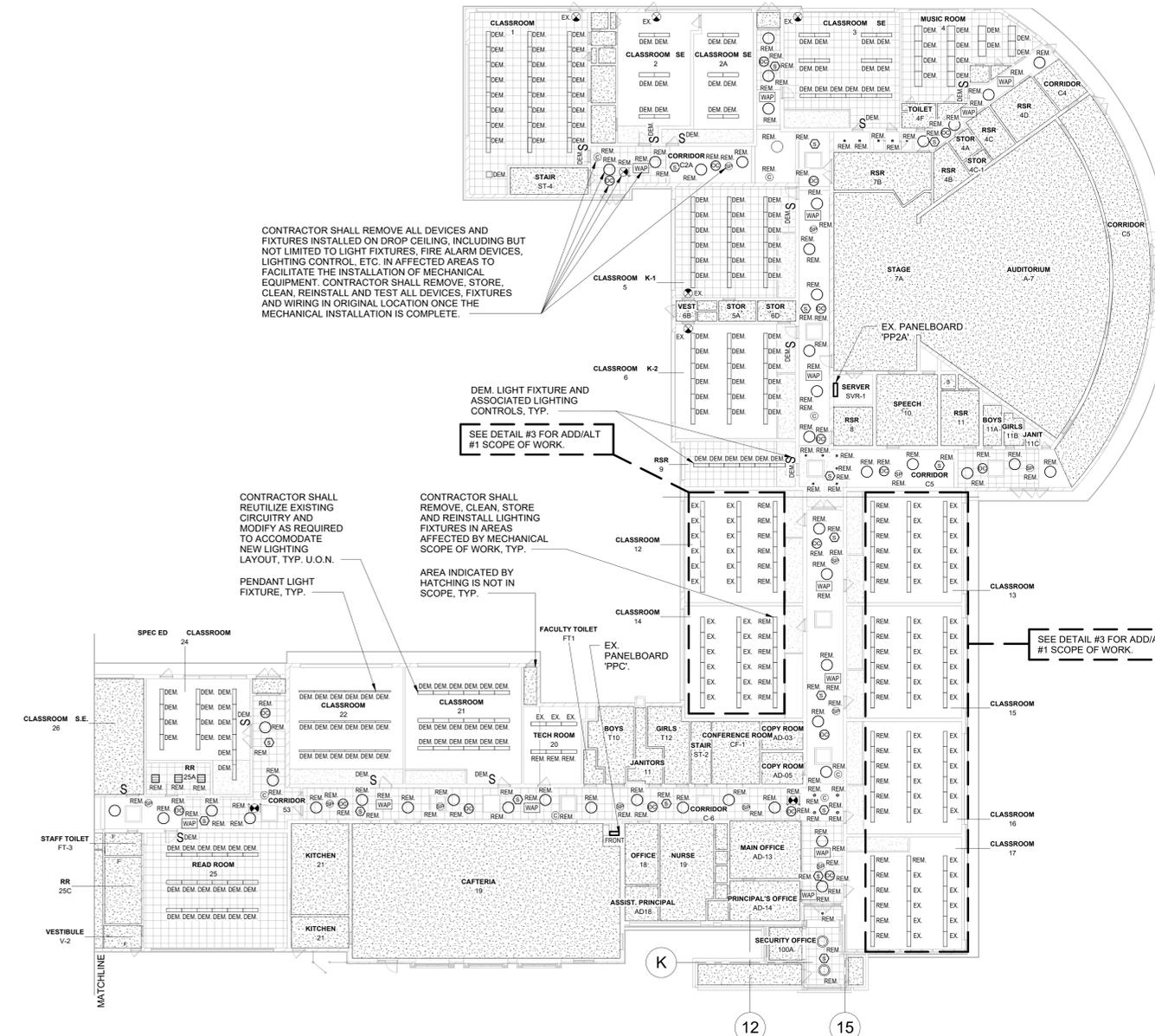
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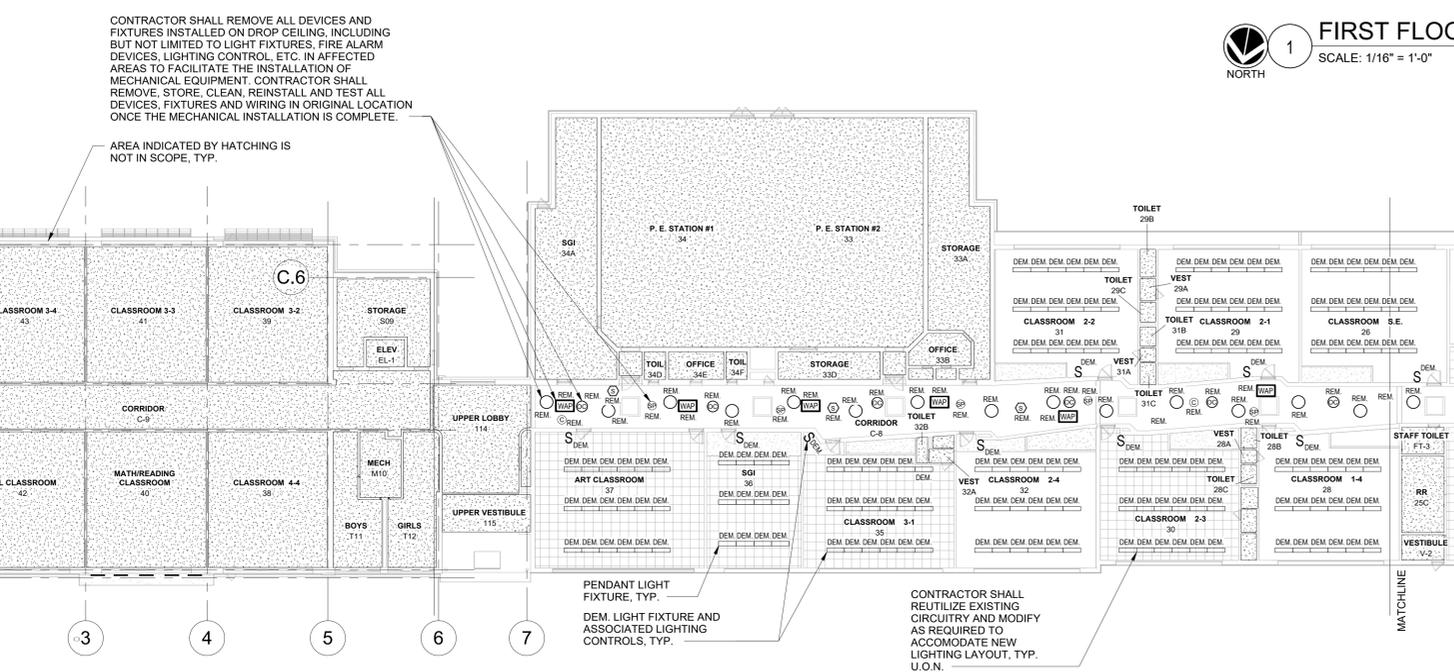
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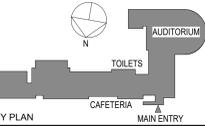
**3** FIRST FLOOR DEMOLITION RCP - WEST ADD/ALT 1  
SCALE: 1/16" = 1'-0"  
NORTH



**1** FIRST FLOOR DEMOLITION RCP - WEST BASE BID  
SCALE: 1/16" = 1'-0"  
NORTH



**2** FIRST FLOOR DEMOLITION RCP - EAST BASE BID  
SCALE: 1/16" = 1'-0"  
NORTH



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Sheet Title

**ELECTRICAL  
DEMOLITION PLAN**

Job No. NKG0238.00 Date 12/04/2023  
Scale AS NOTED Drawn / Checked VB / ML/DS  
Sheet Number

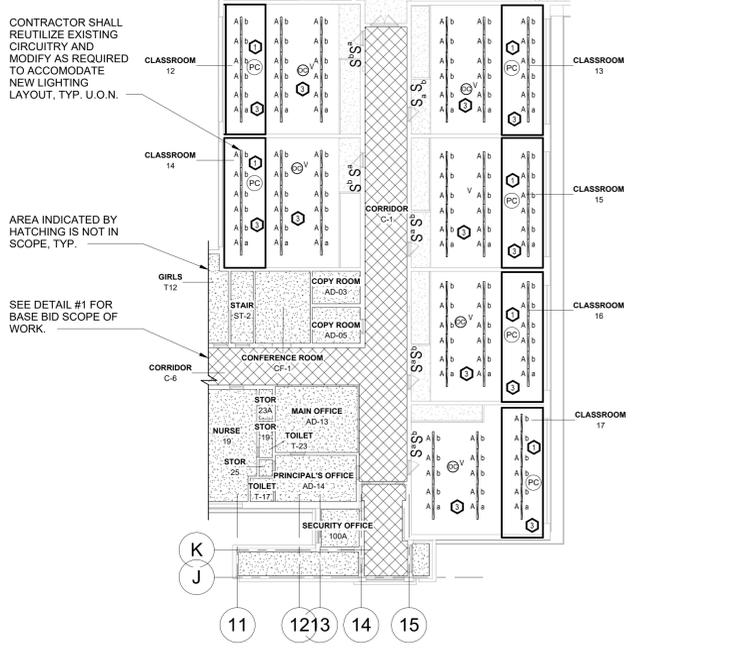
**DESIGN INTENT - LIGHTING CONTROL SYSTEM**

1. LIGHTING CONTROL SYSTEM IS BASED ON WIRED LUTRON SYSTEM (PAUL DERINSKY - EMPIRE LIGHTING 201) 410-1327 OR APPROVED EQUAL.
2. LIGHTING CONTROL COMPONENTS SHOWN ARE FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR A DELEGATED DESIGN INCLUDING ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. CONTRACTOR IS RESPONSIBLE FOR FULL DESIGN OF SYSTEM BASED ON THE DESIGN INTENT INCLUDED ON THESE DRAWINGS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES.
4. ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALL BE SUBMITTED AT THE SAME TIME FOR APPROVAL.
5. EXTERIOR MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.
  - BUILDING MOUNTED LIGHTS (UON)
  - SITE POLE LIGHTS
6. LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN EMERGENCY BATTERY BACKUP BALLASTS. WHERE POSSIBLE, THE BALLAST SHALL BE INTEGRAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY BALLAST IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BALLAST. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE. THE BATTERY PACK AND FLUORESCENT LAMPS SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 12000 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
7. ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.

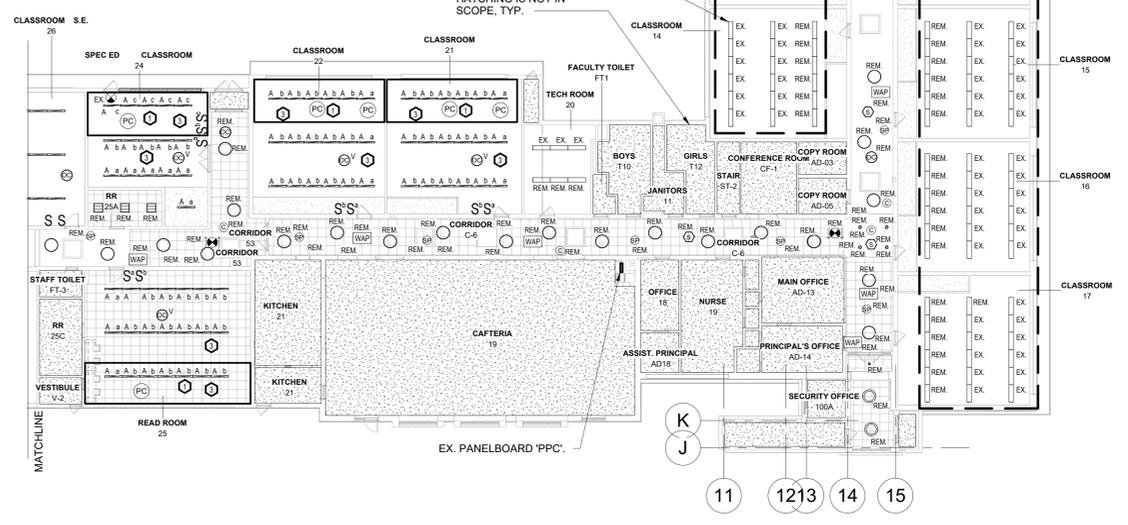
**LIGHTING CONTROLS LEGEND**

- 1 DAYLIGHT HARVESTING ZONE WITH PHOTOCELL SENSOR
- 2 TIME CLOCK WITH OCCUPANCY SENSOR OVERRIDE AFTER HOURS AND MASTER SWITCH OVERRIDE. OCCUPANCY SENSOR CONTROL IS AUTOMATIC ON / AUTOMATIC OFF WITHIN 20 MINUTES OF SPACE BECOMING VACANT.
- 3 LOW VOLTAGE WALL SWITCH AND DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR. TEACHING WALL ROW SHALL BE SWITCHED SEPARATELY. MANUAL ON / AUTOMATIC OFF WITHIN 20 MINUTES OF SPACE BECOMING VACANT.
- 4 LOW VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. OCCUPANCY SENSOR CONTROL IS AUTOMATIC ON / AUTOMATIC OFF WITHIN 20 MINUTES OF SPACE BECOMING VACANT.
- 5 LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH WALL MOUNTED KEY SWITCH. OCCUPANCY SENSOR CONTROL IS AUTOMATIC ON / AUTOMATIC OFF WITHIN 20 MINUTES OF SPACE BECOMING VACANT.
- 6 LOW VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR. MANUAL ON / AUTOMATIC OFF WITHIN 20 MINUTES OF SPACE BECOMING VACANT.
- 7 MANUAL ON/OFF WALL SWITCH.
- 8 LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR WITH MANUAL WALL MOUNTED SWITCH.

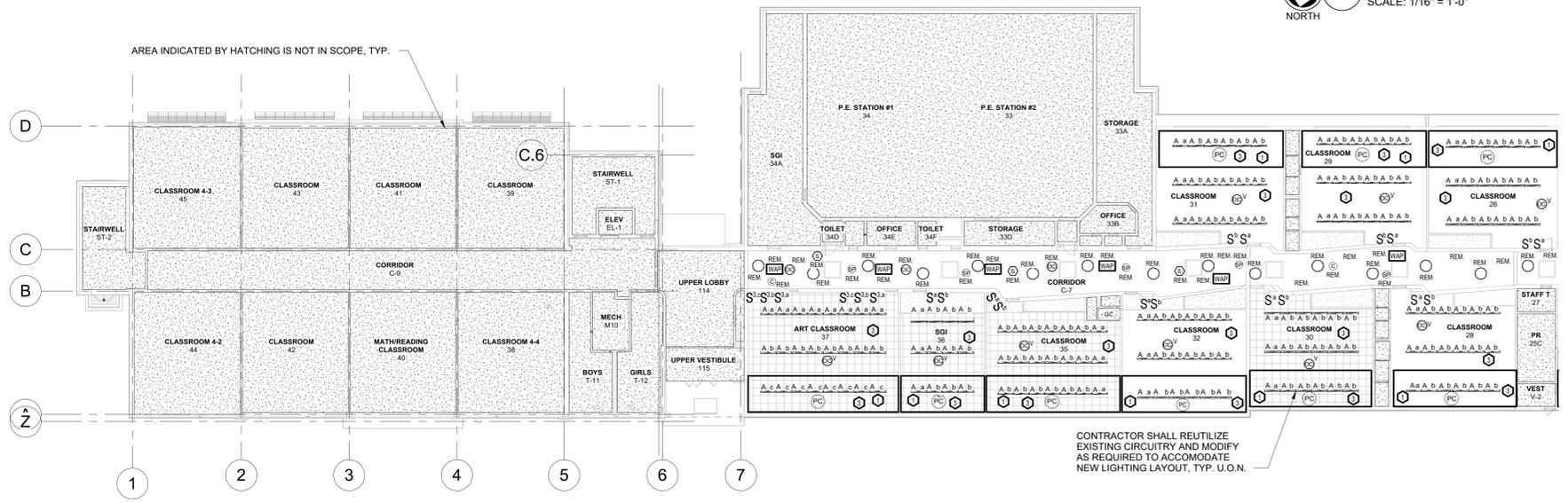
- NOTES:**
1. PANELBOARD DESIGNATIONS HAVE BEEN SHORTENED FOR CLARITY AS FOLLOWS:  
PPM1 = M1  
PPM2 = M2  
PPC = C
  2. COORDINATE TEACHING WALL SWITCHING WITH SCHOOL REPRESENTATIVE PRIOR TO INSTALLATION.
  3. LIGHT FIXTURES AND CONTROLS NOT SHOWN ARE EXISTING TO REMAIN.



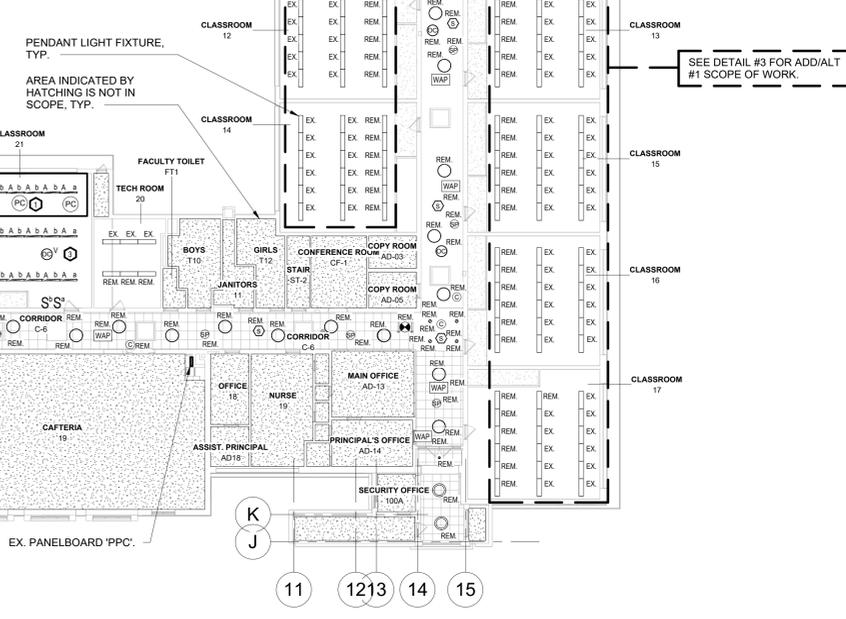
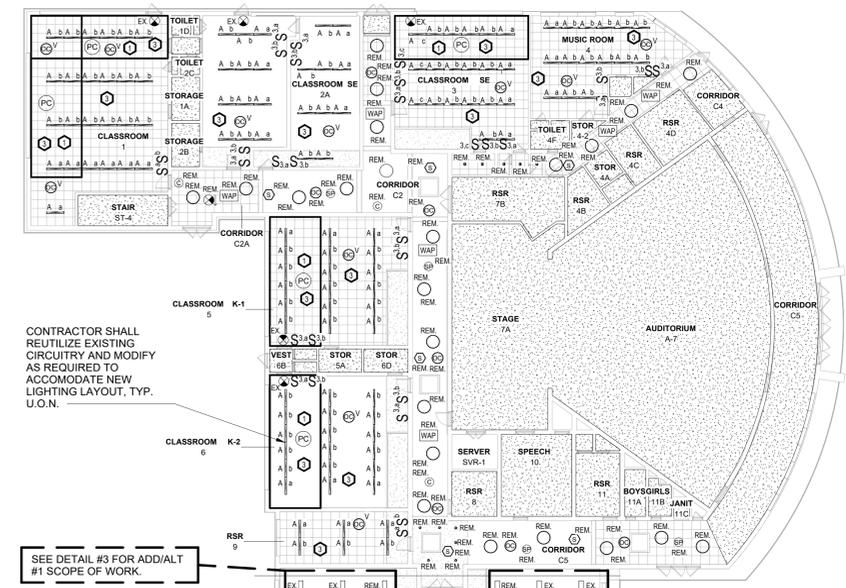
**3 FIRST FLOOR NEW WORK RCP - EAST ADD/ALT 1**  
SCALE: 1/16" = 1'-0"  
NORTH



**1 FIRST FLOOR NEW WORK RCP - WEST BASE BID**  
SCALE: 1/16" = 1'-0"  
NORTH



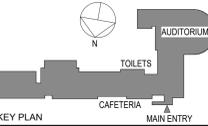
**2 FIRST FLOOR NEW WORK RCP - EAST BASE BID**  
SCALE: 1/16" = 1'-0"  
NORTH



**WILLIAM E. COTTE**  
**ELEMENTARY SCHOOL ADDITIONS & ALTERATIONS**  
TUCKAHOE UFSD  
2 SIWANOE BLVD  
EASTCHESTER, N.Y. 10709

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

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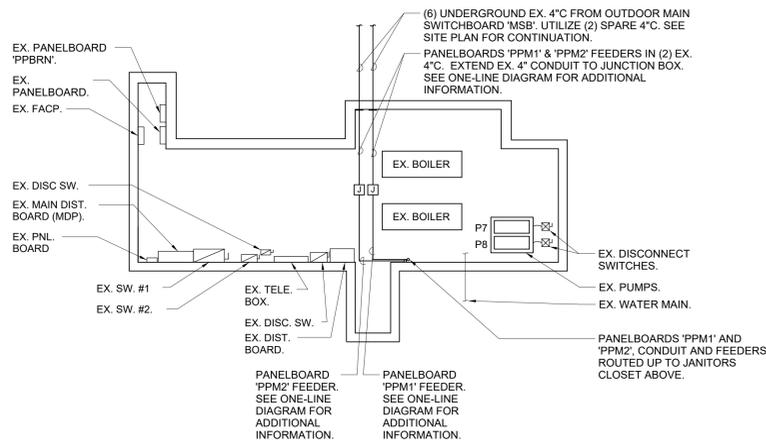
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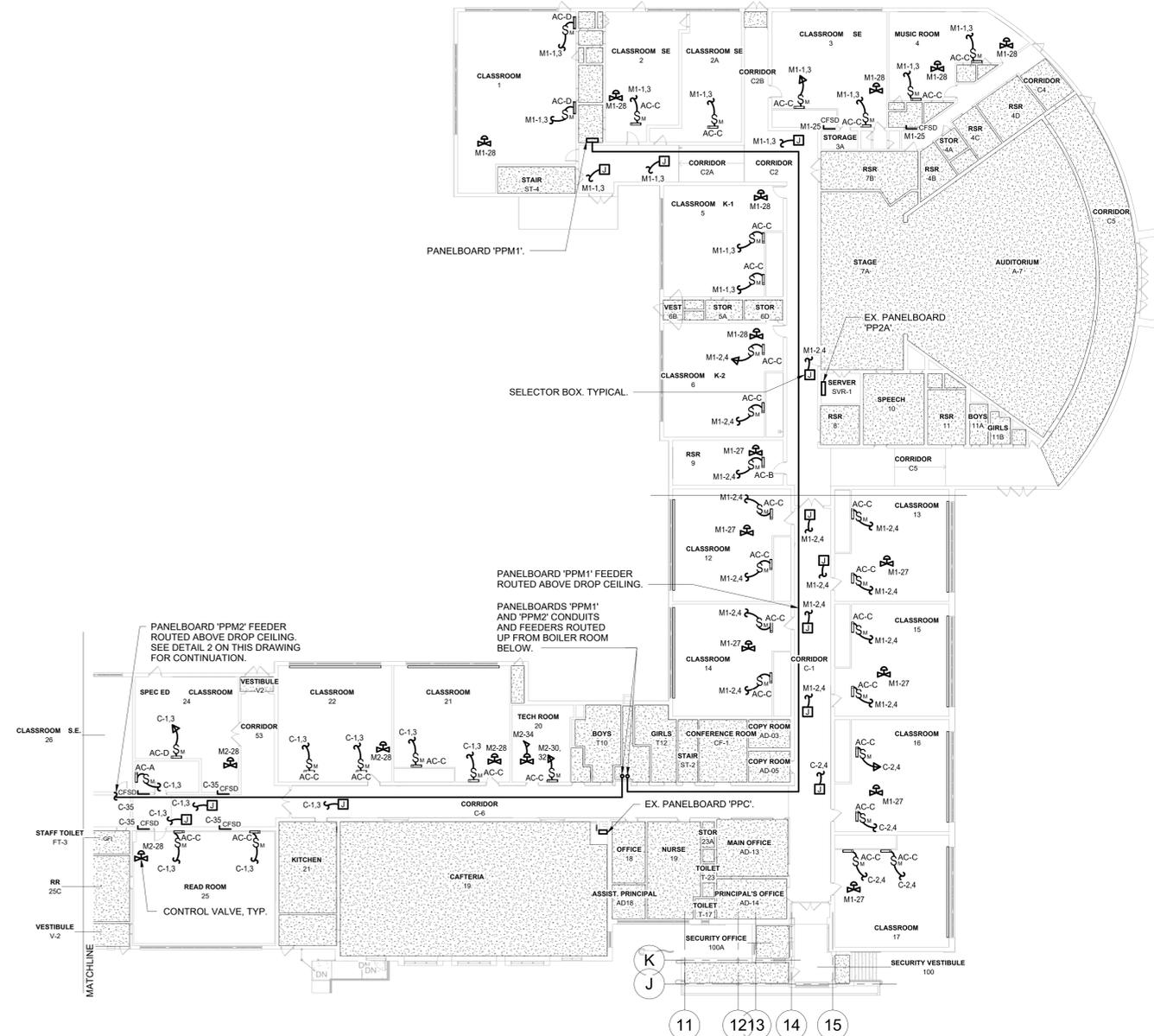
**ELECTRICAL NEW WORK LIGHTING PLAN**

Job No. NKG0238.00 Date 12/04/2023  
Scale AS NOTED Drawn / Checked  
Author Checker

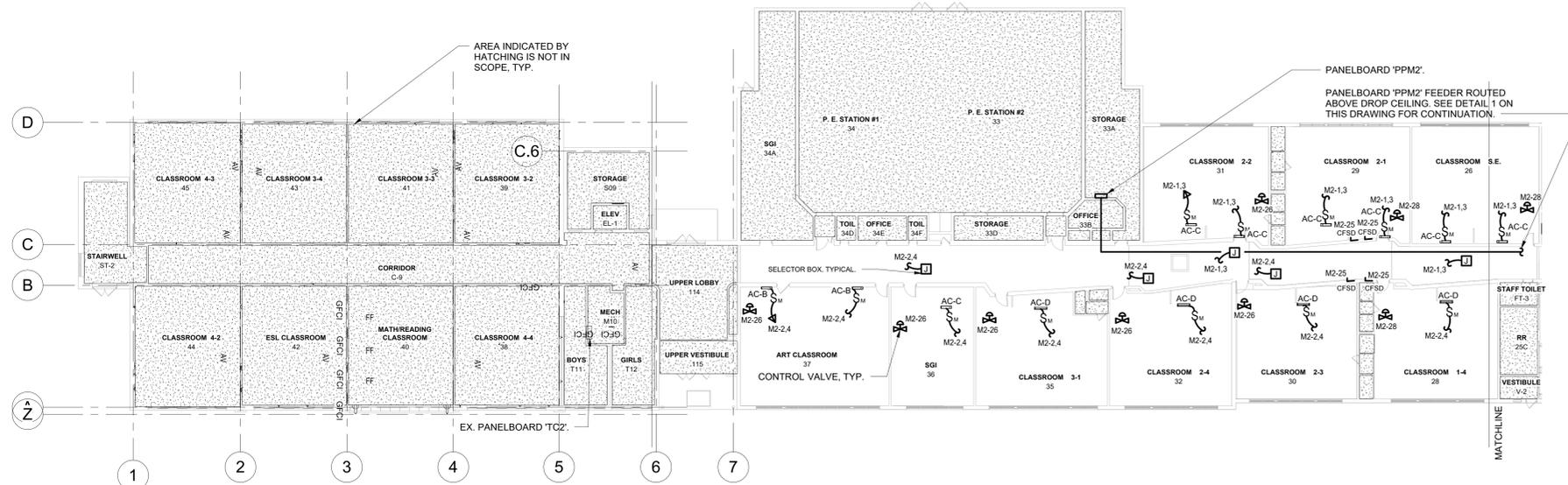
Sheet Number **E201**



**3 BOILER ROOM PART PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH

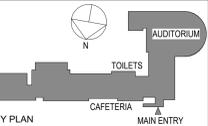


**1 FIRST FLOOR NEW WORK PLAN - WEST**  
SCALE: 1/16" = 1'-0"  
NORTH



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

NOTES:  
1. PANELBOARD DESIGNATIONS HAVE BEEN SHORTENED FOR CLARITY AS FOLLOWS:  
PPM1 = M1  
PPM2 = M2  
PPC = C



KEY PLAN

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Professional Seal

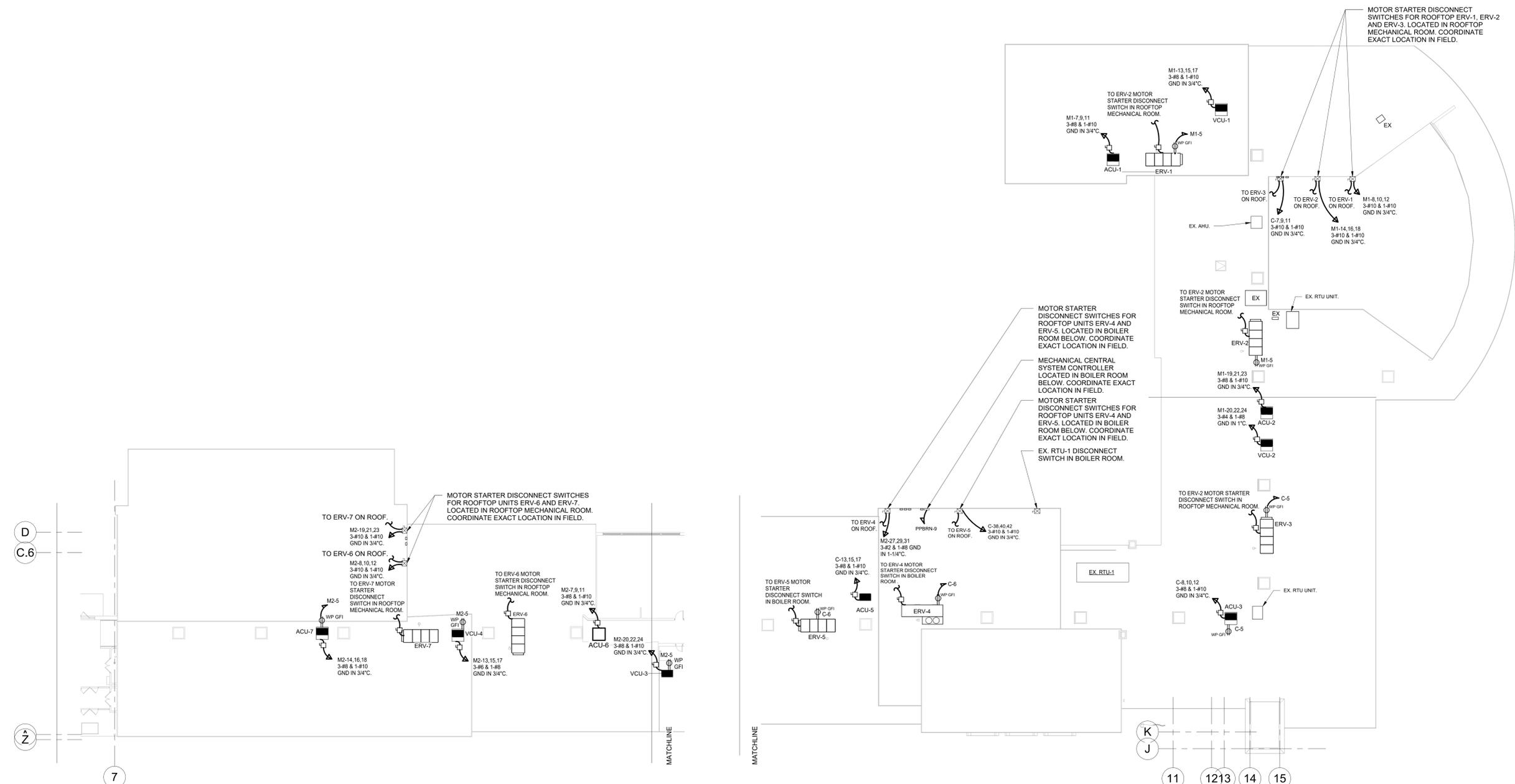


2		
1	12/04/2023	ISSUED FOR BID
No.	Date	Issue
Sheet Title		

**ELECTRICAL NEW WORK FLOOR PLAN**

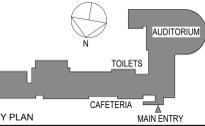
Job No.	NKGD0238.00	Date	12/04/2023
Scale	AS NOTED	Drawn / Checked	VB / ML/DS
Sheet Number	E301		

- NOTES:  
1. PANELBOARD DESIGNATIONS HAVE BEEN SHORTENED FOR CLARITY AS FOLLOWS:  
PPM1 = M1  
PPM2 = M2  
PPC = C



**2 ROOF NEW WORK PLAN - EAST**  
SCALE: 1/16" = 1'-0"

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



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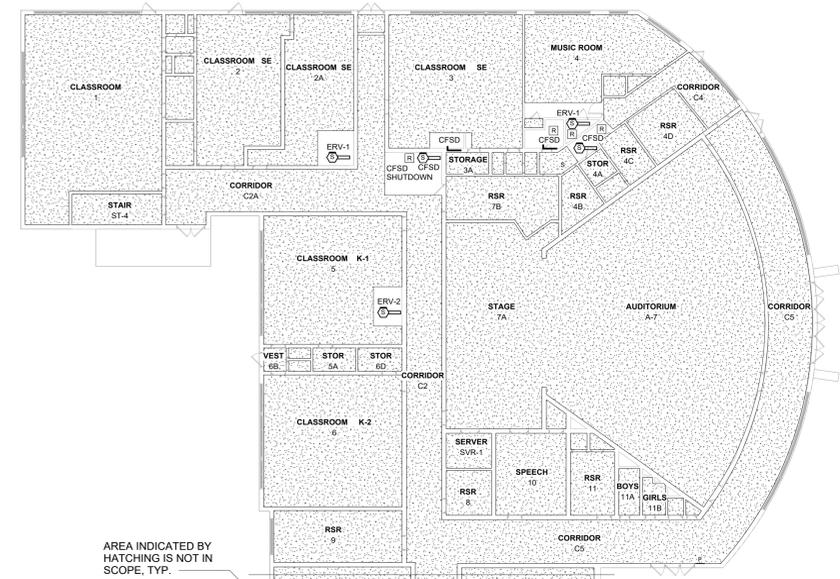


1 12/04/2023 ISSUED FOR BID  
No. Date Issue  
Sheet Title

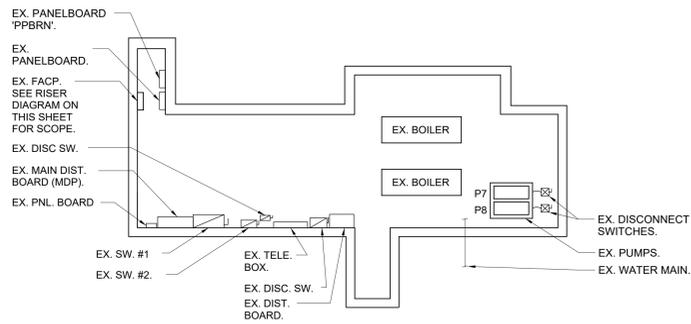
**ELECTRICAL NEW WORK ROOF PLAN**

Job No. NKG0238.00 Date 12/04/2023  
Scale AS NOTED Drawn / Checked VB / ML/DS  
Sheet Number

**E302**



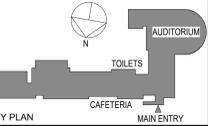
AREA INDICATED BY HATCHING IS NOT IN SCOPE, TYP.



**3 BOILER ROOM FIRE ALARM NEW WORK PART PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH



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



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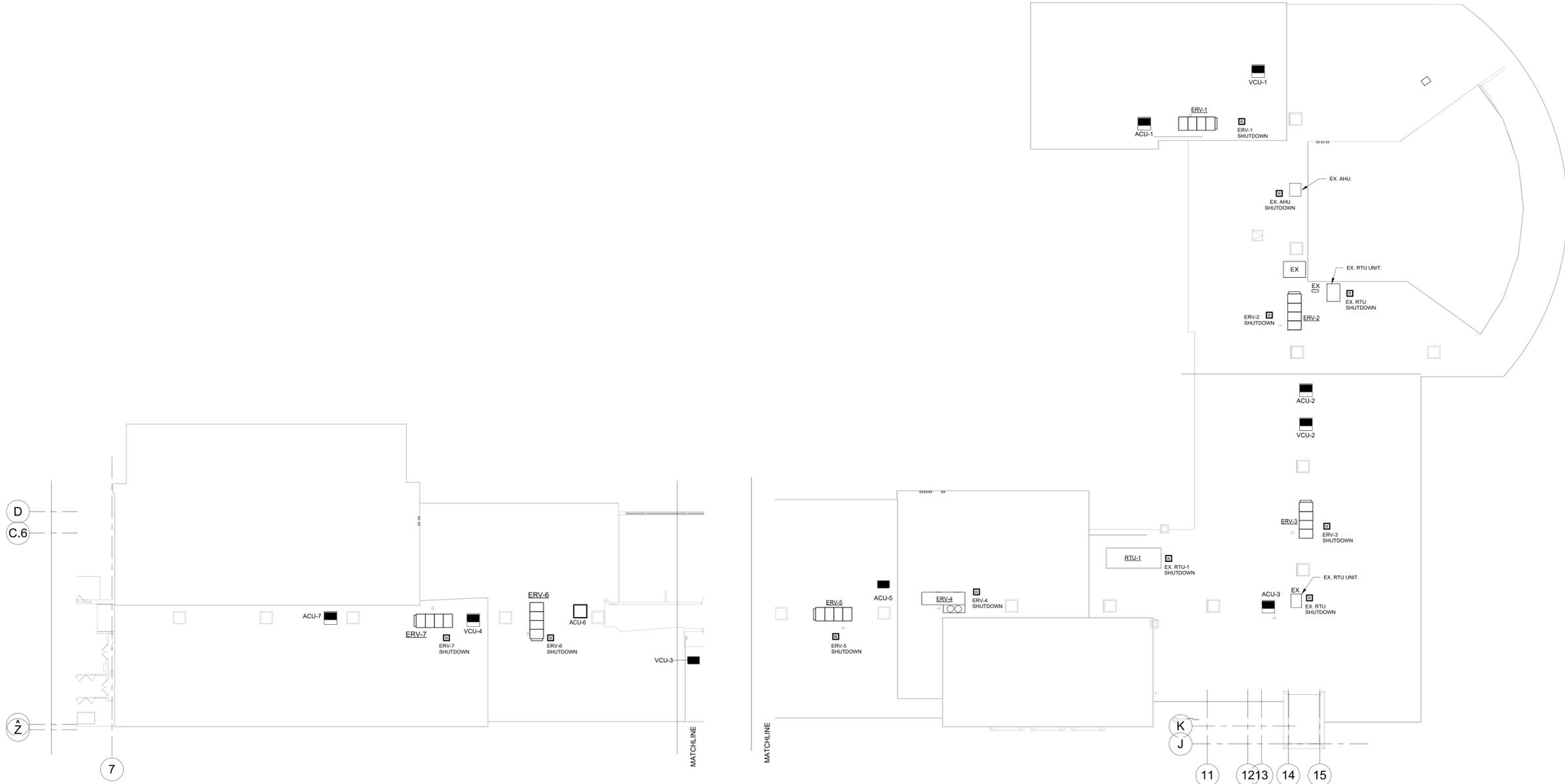
**2 FIRST FLOOR NEW WORK FIRE ALARM PLAN - EAST**  
SCALE: 1/16" = 1'-0"  
NORTH

Professional Seal

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

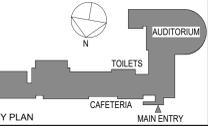
**FIRE ALARM NEW WORK PLAN**

Job No.	NGKD0238.00	Date	12/04/2023
Scale	AS NOTED	Drawn / Checked	VB / ML/DS
Sheet Number	<b>E401</b>		



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

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



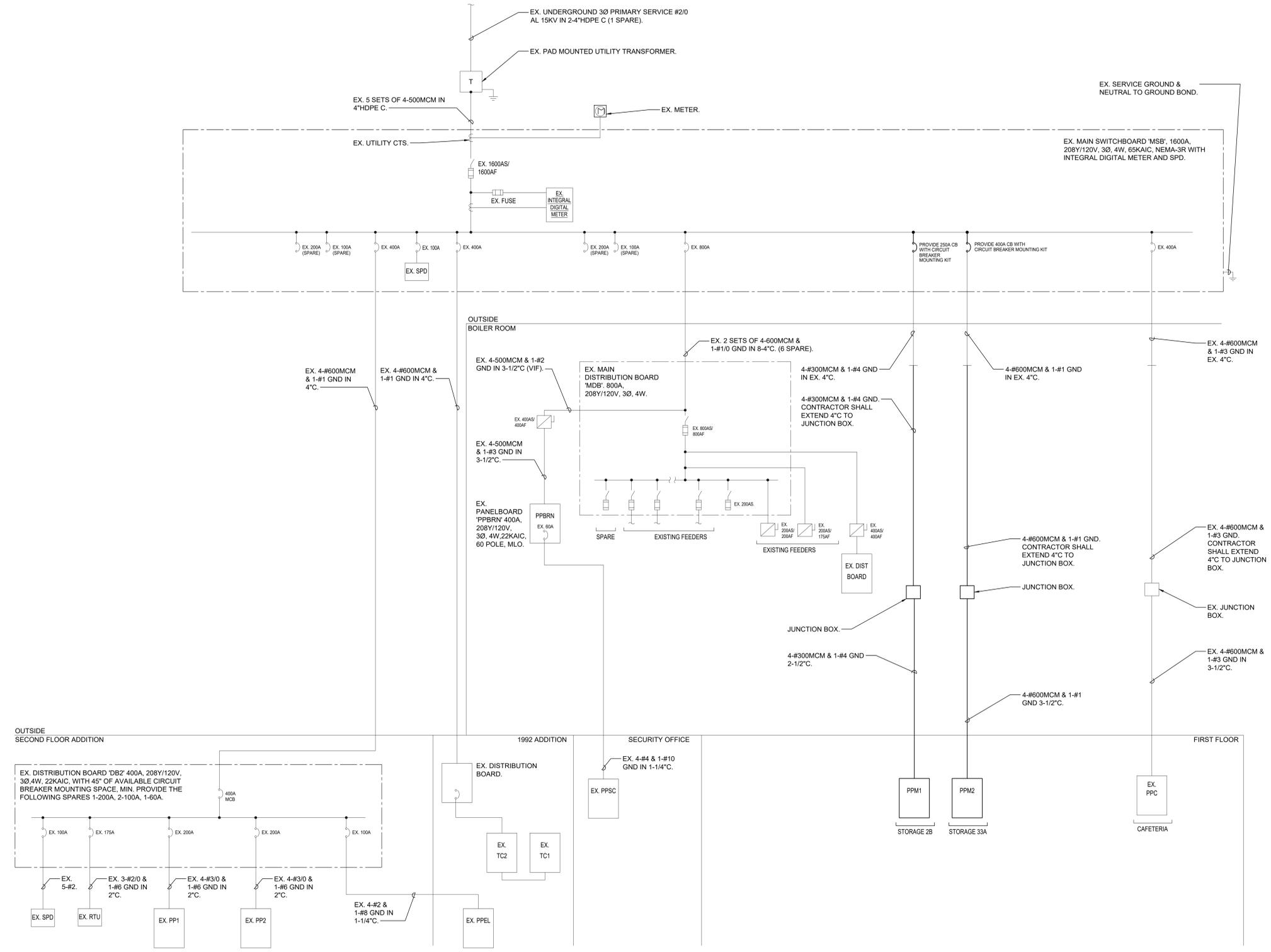
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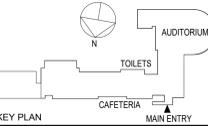


1 12/04/2023 ISSUED FOR BID	
No.	Date
Sheet Title	
<b>FIRE ALARM NEW WORK ROOF PLAN</b>	
Job No.	Date
NKGD0238.00	12/04/2023
Scale	Drawn / Checked
AS NOTED	VB / ML/DS
Sheet Number	
<b>E402</b>	



**1 ELECTRICAL ONE-LINE DIAGRAM**  
SCALE: NONE

- NOTES:**  
1.) ALL CIRCUIT BREAKERS AND SWITCHES ARE 3 POLE, U.O.N.  
2.) SEE DRAWING E702 FOR EXTERNAL SWITCHBOARD LOCATION.



**KEY PLAN**

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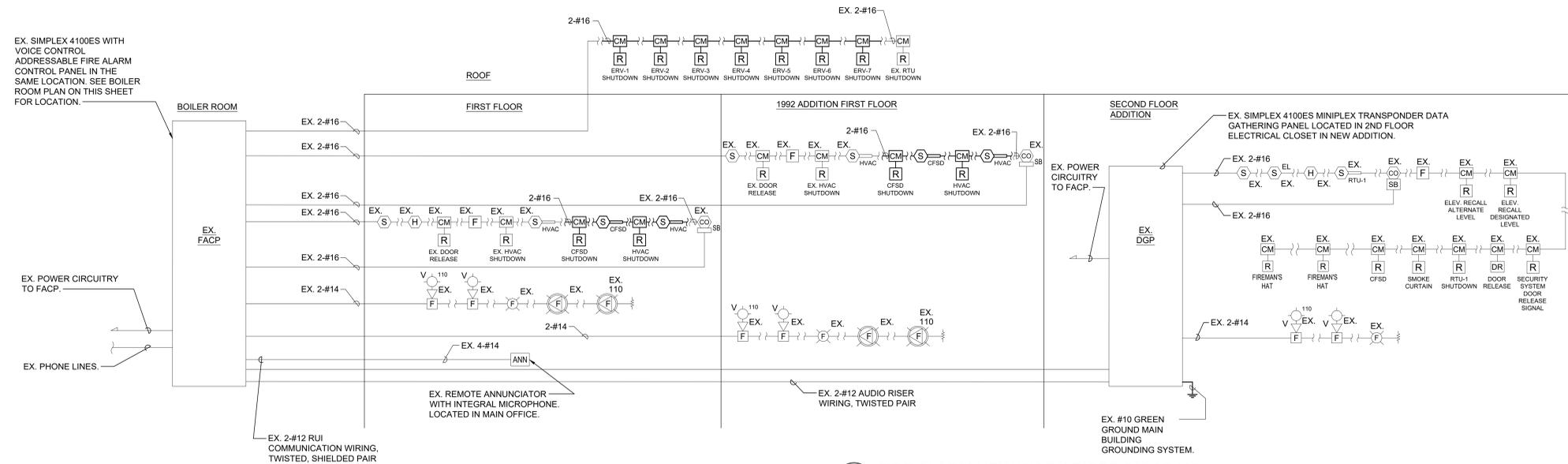


1 12/04/2023 ISSUED FOR BID  
No. 1 Date Issue

**ELECTRICAL ONE-LINE DIAGRAM**

Job No. NKGD0238.00 Date 12/04/2023  
Scale AS NOTED Drawn / Checked JJVB/MLDS

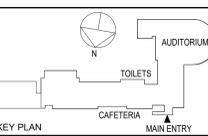
Sheet Number  
**E501**



**1 FIRE ALARM NEW WORK RISER DIAGRAM**  
SCALE: NONE

**RISER NOTES:**

- THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.
- ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.
- QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.
- PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING REQUIRED TO CONNECT NEW DEVICES TO EXISTING SYSTEM.
- PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.
- PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL FIVE (5) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE ADDITIONAL FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, FAN SHUTDOWN, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.
- DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.
- CARBON MONOXIDE DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM AND SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL BE MOUNTED ON SOUNDER BASES WHICH PROVIDE LOCAL ALARM ONLY IN A TEMPORAL 4 PATTERN OR CONSTANT TONE.
- ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT.
- ELECTRICAL CONTRACTOR TO PROVIDE A RELAY FOR EACH SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. RELAYS ARE NOT SHOWN ON PLANS FOR CLARITY.
- DOOR HOLDERS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
- MAINTAIN A 19" TO 24" CLEARANCE AROUND THE CENTERLINE OF THE BEAM OF BEAM TYPE SMOKE DETECTORS.
- PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS, ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.
- CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.
- CONTROL MODULES USED TO INITIATE EMERGENCY CONTROL FUNCTIONS THAT DO NOT FAIL IN A SAFE POSITION SHALL BE LOCATED WITHIN 3 FEET OF THE COMPONENT CONTROLLING THE EMERGENCY CONTROL FUNCTION PER NFPA 72. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTROL MODULES CONNECTED TO FAN MOTOR CONTROLLERS, ELEVATOR CONTROLLERS, ETC.
- ALL FIRE ALARM PANELS, JUNCTION BOX COVERS, ETC SHALL BE PAINTED "FIRE DEPARTMENT RED".



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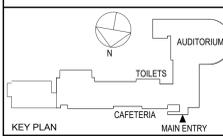


1 12/04/2023 ISSUED FOR BID  
No. Date Issue  
Sheet Title

**FIRE ALARM RISER DIAGRAM**

Job No. NKGD0238.00 Date 12/04/2023  
Scale AS NOTED Drawn / Checked JJVB/MLDS

Sheet Number  
**E502**



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

Sheet Title

**ELECTRICAL SCHEDULES**

Job No.	Date
NKGD0238.00	12/04/2023
Scale	Drawn / Checked
AS NOTED	JJV/B ML/D.S

Sheet Number  
**E601**

EX. PPC PANEL SCHEDULE									
MAIN RATING: 400A		MAIN C.B.: 400A		KAIC RATING: 22KAIC					
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	AC-A/AC-B/AC-D/SELECTOR BOX	15*	2	2	15*	AC-B/SELECTOR BOX	2		
3							4		
5	EX. RECP WP/GFI ROOF	20	1	1	20	EX. RECP WP/GFI ROOF	6		
7							8		
9	ERV-3 ROOF	40#	3	3	40#	ACU-3 ROOF	10		
11							12		
13						1	20	EX. CAFETERIA CONTROL VALVES	14
15	ACU-5 ROOF	40#	3				16		
17						3	150	EX. RTU-1	18
19									20
21	EX. RECP HOT/COLD SERVING UNIT	50	3						22
23									24
25									26
27									28
29									30
31									32
33									34
35	CFSD'S	20@	1	1	20	EX. RECP QUAD	36		
37	EX. RECP TV	20	1				38		
39	EX. RECP DISPLAY CASE	20	1	3	40#	ERV-5 ROOF	40		
41	EX. RECP DISPLAY CASE	20	1				42		
43	EX. RECP REF	20	1	1	20	EX. RECP GFI	44		
45	EX. RECP REF	20	1	1	20	EX. RECP QUAD GFI	46		
47	EX. RECP QUAD DISPLAY CASE	20	1	1	20	EX. RECP	48		
49				1	20	EX. RECP	50		
51	EX. RECP QUAD CLG	20	1	1	20	EX. RECP GEN	52		
53	EX. RECP DISPLAY CASE	20	1	1	20	EX. JBOX SHADES	54		
55	EX. JBOX FLOOR DOG HOUSE	20	1	1	20	EX. GFI RECP FOR WATER FOUNTAIN	56		
57	EX. LTG - EXTERIOR	20	1				58		
59							60		
61							62		
63	CFSD	20@	1				64		
65	EX. HVAC CONTROLS	20	1				66		
67	EX. HVAC CONTROLS	20	1				68		
69	HVAC CONTROLS	20@	1				70		
71	HVAC CONTROLS	20@	1				72		
73							74		
75	EX. LTG - EXTERIOR	20	1				76		
77				1	20@	CU-HA	78		
79	EX. SPARE	20	1	1	20	EX. SPARE	80		
81	EX. SPARE	20	1	1	20	EX. SPARE	82		
83	EX. SPARE	20	1	1	20	EX. SPARE	84		

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

NOTES:  
1.) \* - PROVIDE (2) 1P-15A CB.  
2.) # - PROVIDE (4) 3P-40A CB.  
3.) @ - PROVIDE (5) 1P-20A CB.

EX. 'PPBRN' PANEL SCHEDULE									
MAIN RATING: 400A		MAIN C.B.: MLO		KAIC RATING: 22KAIC					
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	EX. BOILER ROOM P8	80	3	3	60	EX. PPSC	2		
3							4		
5							6		
7	EX. FIRE ALARM BOOSTER*	20LK	1	3	80	EX. BOILER ROOM P7	8		
9	CENTRAL SYSTEM CONTROLLER	20	1				10		
11		20	1				12		
13	EX. REC + FIELD	20	1	1	20	EX. OUTDOOR SIGN	14		
15	EX. REC + FIELD	20	1	1	20	EX. OUTDOOR FIELD RECEPTACLES	16		
17	EX. CRAWFORD POLE	20	1	1	20	EX. OUTDOOR SITE LIGHTS	18		
19				1	20	EX. OUTDOOR FIELD RECEPTACLES	20		
21				1	20	EX. OUTDOOR SITE LIGHTS	22		
23							24		
25							26		
27							28		
29							30		
31							32		
33							34		
35							36		
37							38		
39							40		
41							42		
43							44		
45							46		
47							48		
49							50		
51							52		
53	SPARE	20	1	1	20	SPARE	54		
55	SPARE	20	1	1	20	SPARE	56		
57	SPARE	20	1	1	20	SPARE	58		
59	SPARE	20	1	1	20	SPARE	60		

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

NOTES:

PPM1 PANEL SCHEDULE									
MAIN RATING: 400A		MAIN C.B.: 250A		KAIC RATING: 22KAIC					
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	AC-B/AC-C/AC-D/SELECTOR BOX	15	2	2	15	AC-B/SELECTOR BOX	2		
3							4		
5	RECP WP/GFI ROOF	20	1				6		
7							8		
9	ACU-1 ROOF	40	3	3	40	ERV-1 ROOF	10		
11							12		
13							14		
15	VCU-1 ROOF	40	3	3	40	ERV-2 ROOF	16		
17							18		
19							20		
21	ACU-2 ROOF	40	3	3	80	VCU-2 ROOF	22		
23							24		
25	CFSD'S	15	1				26		
27	CONTROL VALVES	20	1	1	20	CONTROL VALVES	28		
29							30		
31							32		
33							34		
35	SPARE	20	1	1	20	SPARE	36		
37	SPARE	20	1	1	20	SPARE	38		
39	SPARE	20	1	1	20	SPARE	40		
41	SPARE	20	1	1	20	SPARE	42		

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

NOTES:

PPM2 PANEL SCHEDULE									
MAIN RATING: 400A		MAIN C.B.: 400A		KAIC RATING: 22KAIC					
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: SURFACE			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	AC-B/AC-D/SELECTOR BOX	15	2	2	15	AC-B/AC-D/SELECTOR BOX	2		
3							4		
5	RECP WP/GFI ROOF	20	1	1			6		
7							8		
9	ACU-6 ROOF	40	3	3	40	ERV-6 ROOF	10		
11							12		
13							14		
15	VCU-4 ROOF	70	3	3	40	ACU-7 ROOF	16		
17							18		
19							20		
21	ERV-7 ROOF	40	3	3	40	VCU-3 ROOF	22		
23							24		
25	CFSD'S	15	1	1	20	CONTROL VALVES	26		
27				1	20	CONTROL VALVES	28		
29	ERV-4 ROOF	80	3	2	15	AC-C SELECTOR BOX	30		
31							32		
33				1	20	CONTROL VALVES	34		
35	SPARE	20	1	1	20	SPARE	36		
37	SPARE	20	1	1	20	SPARE	38		
39	SPARE	20	1	1	20	SPARE	40		
41	SPARE	20	1	1	20	SPARE	42		

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

NOTES:

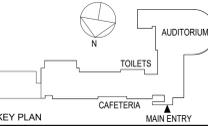
LIGHTING FIXTURE SCHEDULE						
FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	REMARKS
A	LEDALITE LIGHTING	290-6-L-C-D-QQ-XX -7-N-D-E-W-A5-24	(1) 34.8W/4FT LED	120V	SUSPENDED	TRUGROOVE SUSPENDED DIRECT/INDIRECT LIGHT FIXTURE, LENGTHS VARY, WHITE FINISH, PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED. FIXTURES TO HAVE 24" LENGTH SUSPENSION WIRES.

NOTES:  
1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.  
2.) ALL BALLASTS AND DRIVERS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.  
3.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY WHERE POSSIBLE THE SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.  
4.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.  
5.) IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT-TO-POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

EX. 'PP2A' PANEL SCHEDULE									
MAIN RATING: 225A		MAIN C.B.: MLO		KAIC RATING: 22KAIC					
VOLTAGE: 208Y/120V		PHASE: 3		WIRE: 4		MOUNTING: RECESSED			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	EX. LOAD	20	1	1	20	EX. LOAD	2		
3	EX. LOAD	20	1	1	20	EX. LOAD	4		
5	EX. LOAD	20	1	1	20	EX. LOAD	6		
7	EX. ROOF REC. TX1/TX6/TX9/TX12	20	1	1	20	EX. LOAD	8		
9	EX. TX-1/TX-2	15	1	1	20		10		
11	EX. LOAD	20	1	1	20	EX. LOAD	12		
13	EX. LOAD	20	1	1	20	EX. LOAD	14		
15	EX. LOAD	20	1	1	20	EX. LOAD	16		
17	EX. LOAD	20	1	1	20	EX. LOAD	18		
19	EX. LOAD	20	1	1	20	EX. LOAD	20		
21	EX. LOAD	20	1	1	20	EX. RECEPT FOR SEC EQUIPT.	22		
23	EX. LOAD	20	1				24		
25	EX. LOAD	20	1				26		
27	EX. TX-4/TX-5	15	1				28		
29	EX. TX-6/TX-7	15	1				30		
31	EX. TX-9/TX-10	15	1				32		
33	EX. TX-12/TX-13	15	1				34		
35	EX. LOAD	20	1				36		
37	EX. LOAD	20	1				38		
39	EX. LOAD	20	1				40		
41	EX. LOAD	20	1				42		

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.) \* - PROVIDE (1) 1P-20A CB.



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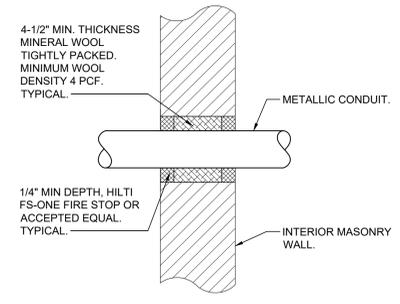
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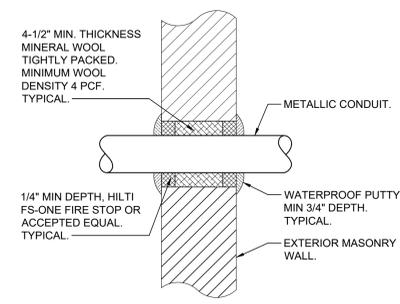
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 No. 1 Date Issue  
 Sheet Title

**ELECTRICAL DETAILS**

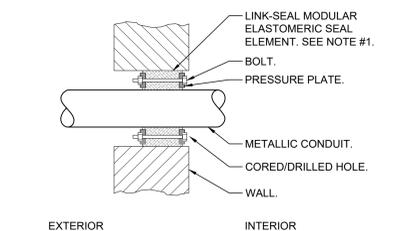
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 Sheet Number



**3 TYPICAL INTERIOR MASONRY WALL CONDUIT PENETRATION DETAIL**  
 SCALE: NONE

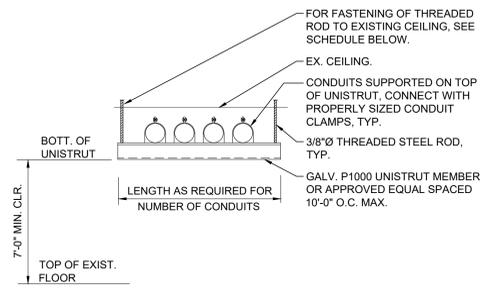


**2 TYPICAL EXTERIOR MASONRY WALL ABOVE GRADE CONDUIT PENETRATION DETAIL**  
 SCALE: NONE



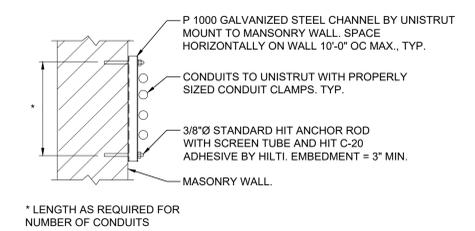
**1 TYPICAL EXTERIOR MASONRY WALL BELOW GRADE CONDUIT PENETRATION DETAIL**  
 SCALE: NONE

**1 TYPICAL EXTERIOR MASONRY WALL BELOW GRADE CONDUIT PENETRATION DETAIL**  
 SCALE: NONE

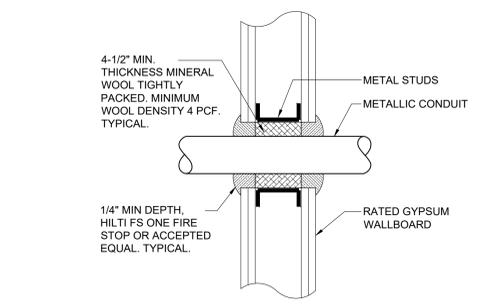


CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

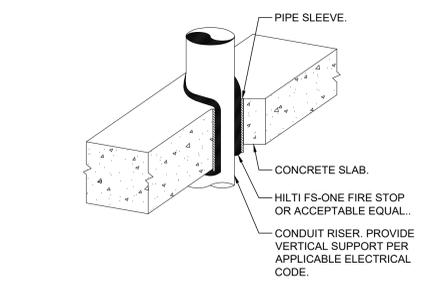
**7 TRAPESE SUPPORT DETAIL**  
 SCALE: NONE



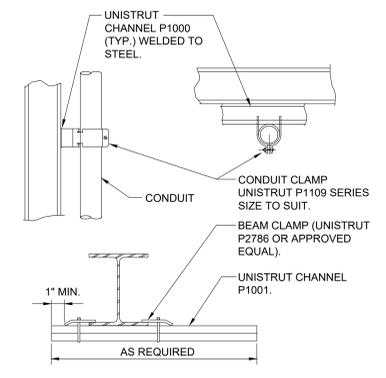
**6 TYPICAL CONDUIT SUPPORT ON MASONRY DETAIL**  
 SCALE: NONE



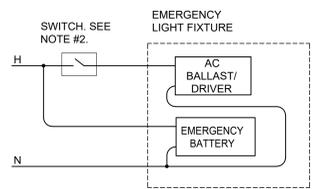
**5 WALL PENETRATION DETAIL**  
 SCALE: NONE



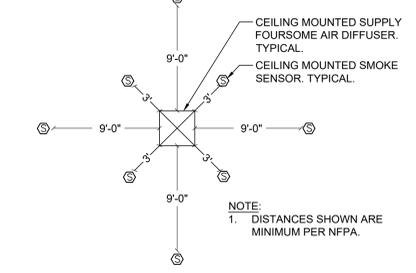
**4 TYPICAL VERTICAL CONDUIT PENETRATION DETAIL**  
 SCALE: NONE



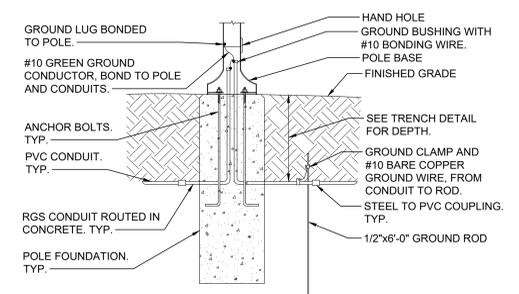
**10 STRUCTURAL STEEL CONDUIT SUPPORTED FROM**  
 SCALE: NONE



**9 SWITCHED EMERGENCY FIXTURE WIRING DIAGRAM**  
 SCALE: NONE

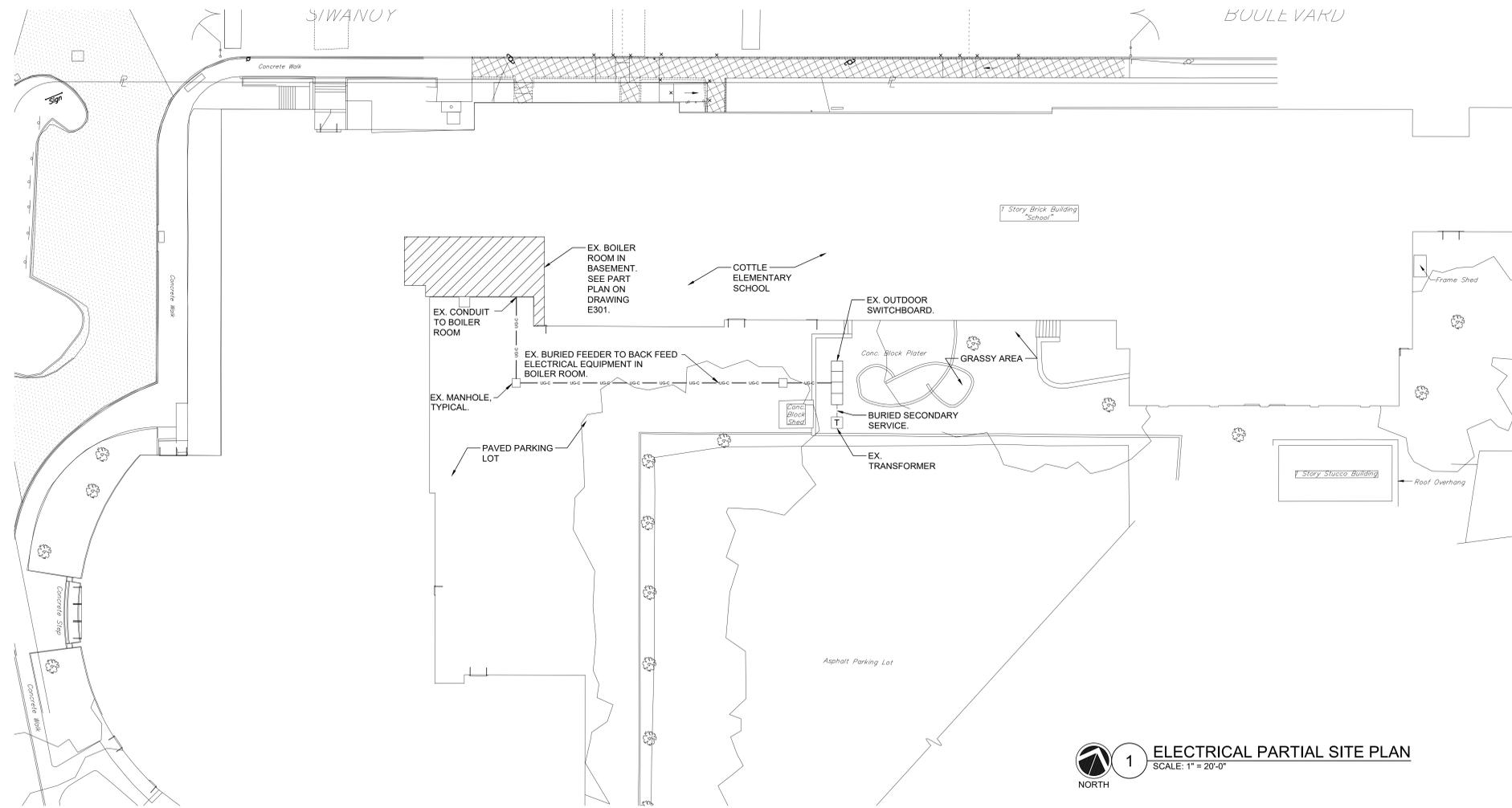


**8 CEILING MOUNTED SMOKE DETECTOR LOCATION WITH RESPECT TO AIR DIFFUSER**  
 SCALE: NONE

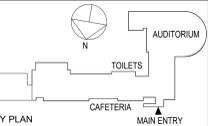


NOTE:  
 1. THIS DETAIL PROVIDES ELECTRICAL GROUNDING/BONDING AND RACEWAY INFORMATION ONLY. SEE STRUCTURAL DRAWINGS FOR POLE FOUNDATION INFORMATION.

**11 LIGHT POST ELECTRICAL INSTALLATION DETAIL**  
 SCALE: NONE



**1** ELECTRICAL PARTIAL SITE PLAN  
SCALE: 1" = 20'-0"



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SITE PLAN**

Job No. Date

NKGD0238.00 12/04/2023

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