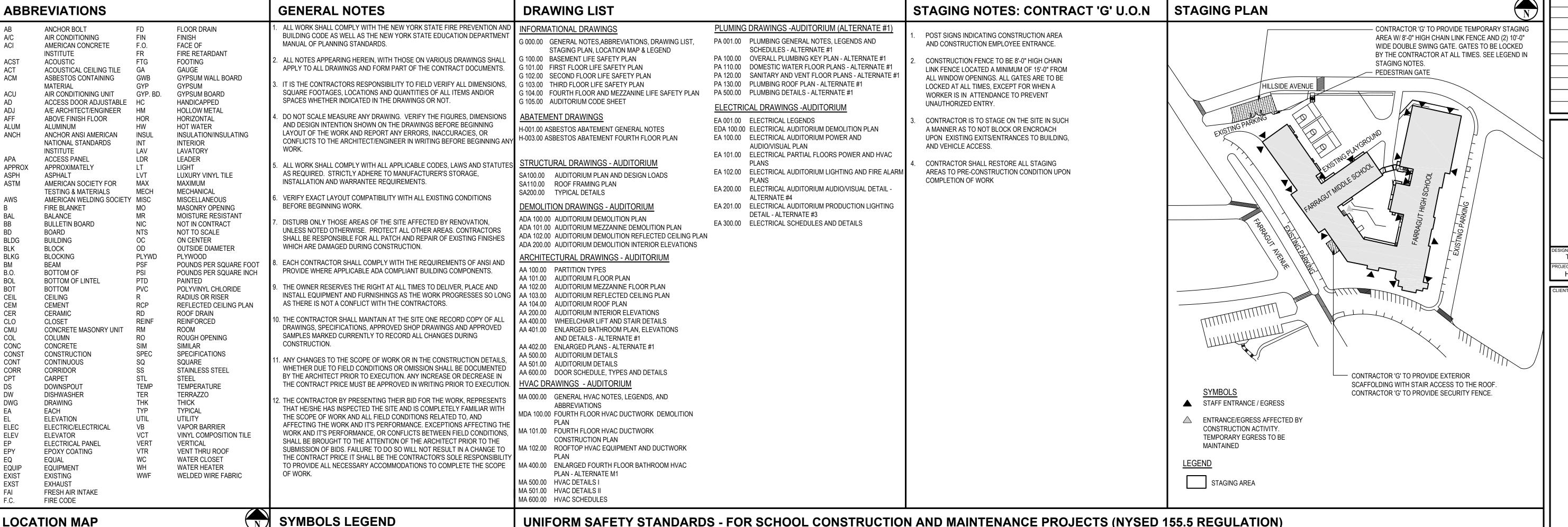
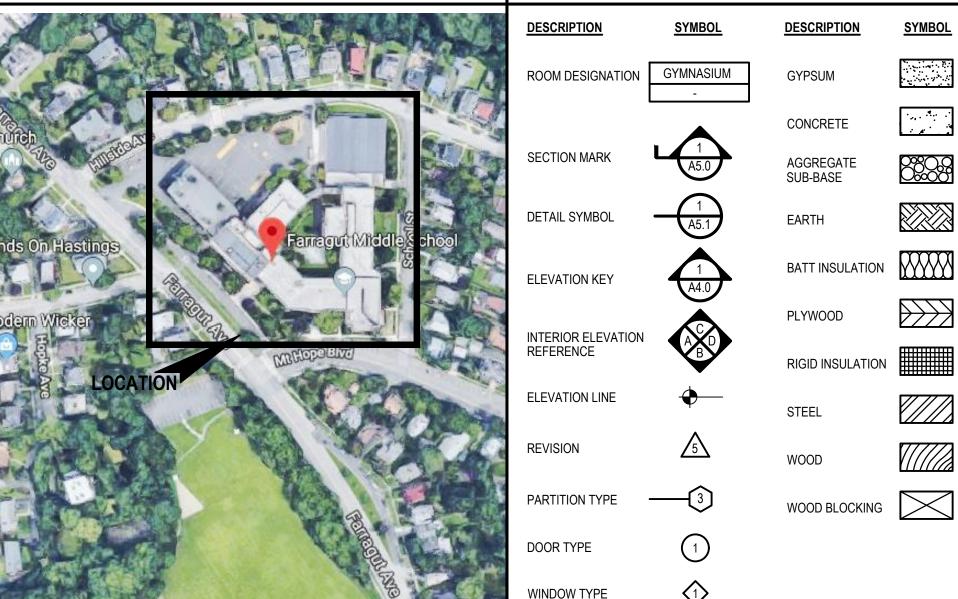
HASTINGS-ON-HUDSON UNION FREE SCHOOL DISTRICT

AUDITORIUM RENOVATIONS AT FARRAGUT MIDDLE SCHOOL 27 FARRAGUT AVENUE, HASTINGS-ON-HUDSON, NY 10706 SED PROJECT CONTROL NUMBER 66-04-04-03-0-001-036

CONTRACT G - GENERAL CONSTRUCTION, ABATEMENT WORK, AND PLUMBING WORK CONTRACT M - HEATING, VENTILATION, AIR CONDITIONING WORK CONTRACT E - ELECTRICAL WORK



SYMBOLS LEGEND UNIFORM SAFETY STANDARDS - FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS (NYSED 155.5 REGULATION)

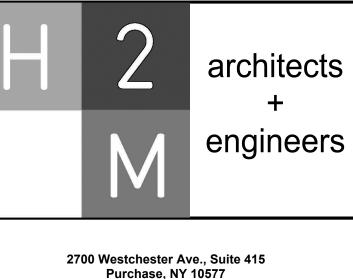


- THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY."
- THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL COMPLY WITH THE COMMISSIONER OF EDUCATION 155.5 UNIFORM SAFETY STANDARDS.
- SCHOOL AREAS TO BE DISTURBED DURING RENOVATIONS OR DEMOLITION ACTIVITIES HAVE BEEN TESTED AND FOUND TO CONTAIN ASBESTOS. THESE AREAS WILL BE ABATED IN ACCORDANCE WITH SPECIFICATION SECTION 028000. A COPY OF THE TEST RESULTS IS INCLUDED WITHIN THE ENVIRONMENTAL REPORT FOUND IN THE APPENDIX OF THE PROJECT MANUAL FOR THIS PROJECT.
- "GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION
- (1) ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE
- (2) FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE
- (3) GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
- (4) 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.
- (5) 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.
- (1) A SPECIFIC STAIRWELL AND/OR ELEVATOR SHALL 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. WHERE NO STAIRWELL AND OR ELEVATOR IS ASSIGNED, WORKERS MUST ENTER THE CONSTRUCTION SPACES DIRECTLY FROM THE BUILDING EXTERIOR
- (2) 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
- 3) 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."
- 5. A PLAN DETAILING HOW EXITING REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE MAINTAINED.
- 6. WORK UNDER THIS CONTRACT WILL BE CONDUCTED DURING THE SUMMER RECESS OR DURING AFTER SCHOOL HOURS WHEN THE BUILDING IS UNOCCUPIED. IF THE BUILDING BECOMES OCCUPIED THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EXISTING MEANS OF EGRESS IN A CLEAR AND FREE MANNER, INCLUDING THE STORAGE OF MATERIALS AND STAGING OF EQUIPMENT ON THE SITE. IF ANY PORTION OF THE BUILDING DOES BECOME OCCUPIED THE ARCHITECT WILL PROVIDE A DETAILED PLAN FOR EXITING, OVERHEAD PROTECTION AND EGRESS IN ACCORDANCE WITH APPLICABLE BUILDING CODES.

- 7. A PLAN DETAILING HOW ADEQUATE VENTILATION WILL BE MAINTAINED DURING
- 8. WORK UNDER THIS PROJECT WILL BE COMPLETED DURING OFF HOURS WHEN THE BUILDING WILL NOT BE OCCUPIED BY FACULTY, STAFF OR STUDENTS. IF A PORTION OF THE BUILDING IS TO BECOME OCCUPIED DURING THE CONSTRUCTION PROCESS THE CONTRACTOR SHALL CLOSE OFF ALL INTAKES, OPENINGS, AND MECHANICAL VENTILATION SYSTEMS ADJACENT TO THE WORK AREA. THE ARCHITECT SHALL ASSIST THE CONTRACTOR IN DEVELOPING A PLAN TO PROVIDE ALTERNATE MEANS OF FRESH AIR TO ALL
- 9. "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."
- 10. "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." ALL VENTS SHALL BE SEALED TO PREVENT CONTAMINANTS FROM THE CONSTRUCTION AREA FROM ENTERING THE OCCUPIED AREAS OF THE
- 11. "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
- 12. "LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED." 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

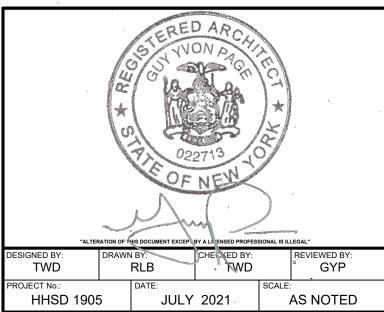
- 13. EXTERIOR WORK SUCH AS ROOFING, FLASHING, SIDING, OR SOFFIT WORK MAY BE PERFORMED ON OCCUPIED BUILDINGS PROVIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED, AND COMPLETE ISOLATION OF VENTILATION SYSTEMS AND AT WINDOWS IS PROVIDED. CARE MUST BE TAKEN TO SCHEDULE WORK SO THAT CLASSES ARE NOT DISRUPTED BY NOISE OR VISUAL DISTRACTION.
- 14. MINOR ASBESTOS PROJECTS DEFINED BY 12NYCRR56 AS AN ASBESTOS PROJECT INVOLVING THE REMOVAL, DISTURBANCE, REPAIR, ENCAPSULATION, ENCLOSURE OR HANDLING OF 10 SQUARE FEET OF ASBESTOS OR ASBESTOS MATERIAL MAY BE PERFORMED IN UNOCCUPIED AREAS OF AN OCCUPIED BUILDING IN ACCORDANCE WITH 12NYCRR56.
- 15. SURFACES AND/OR MATERIALS TO BE REMOVED OR DISTURBED BY THIS RENOVATION ARE SUSPECT OF CONTAINING LEAD. A COPY OF THE TEST RESULTS IS INCLUDED WITHIN THE ENVIRONMENTAL REPORT FOUND IN THE APPENDIX OF THE PROJECT MANUAL FOR THIS PROJECT.
- 16. UNDER NEW YORK STATE LAW SMOKING IS PROHIBITED ON SCHOOL GROUNDS. EMPLOYEES FOUND TO BE SMOKING ON SCHOOL GROUNDS SHALL BE ORDERED OFF SITE AND A SECOND OFFENSE WILL BE GROUNDS FOR PERMANENT REMOVAL FROM PROJECT. LEGAL PENALTIES MAY ALSO BE
- 17. ALL CONTRACTORS SHALL TAKE EVERY PRECAUTION AND SHALL PROVIDE SUCH EQUIPMENT AND FACILITIES AS ARE NECESSARY OR REQUIRED FOR THE SAFETY OF ITS EMPLOYEES. IN CASE OF AN ACCIDENT, FIRST AID SHALL BE ADMINISTERED TO ANY WHO MAY BE INJURED IN THE PROGRESS OF THE WORK. IN ADDITION, THE CONTRACTOR SHALL BE PREPARED FOR THE REMOVAL TO THE HOSPITAL FOR TREATMENT OF ANY EMPLOYEE EITHER SERIOUSLY INJURED OR ILL.
- 18. THE CONTRACTOR SHALL PROVIDE TEMPORARY WEATHER-TIGHT AND INSULATED ENCLOSURES AS MAY BE REQUIRED BY THE SCOPE OF WORK FOR ALL EXTERIOR OPENINGS SO AS TO PROTECT ALL WORK FROM THE WEATHER. AND TO PROVIDE SECURITY AGAINST UNAUTHORIZED ENTRY. ENCLOSURES SHALL NOT CREATE DEAD END CONDITIONS, REQUIRED EXITS SHALL BE MAINTAINED FREE AND CLEAR.



CONSULTANTS:			

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	07-23-2021	FINAL BID DOCUMENT



Hastings-on-Hudson Union Free School District

Auditorium Renovations at **Farragut Middle School**



27 Farragut Avenue Hastings-on-Hudson, NY 10706

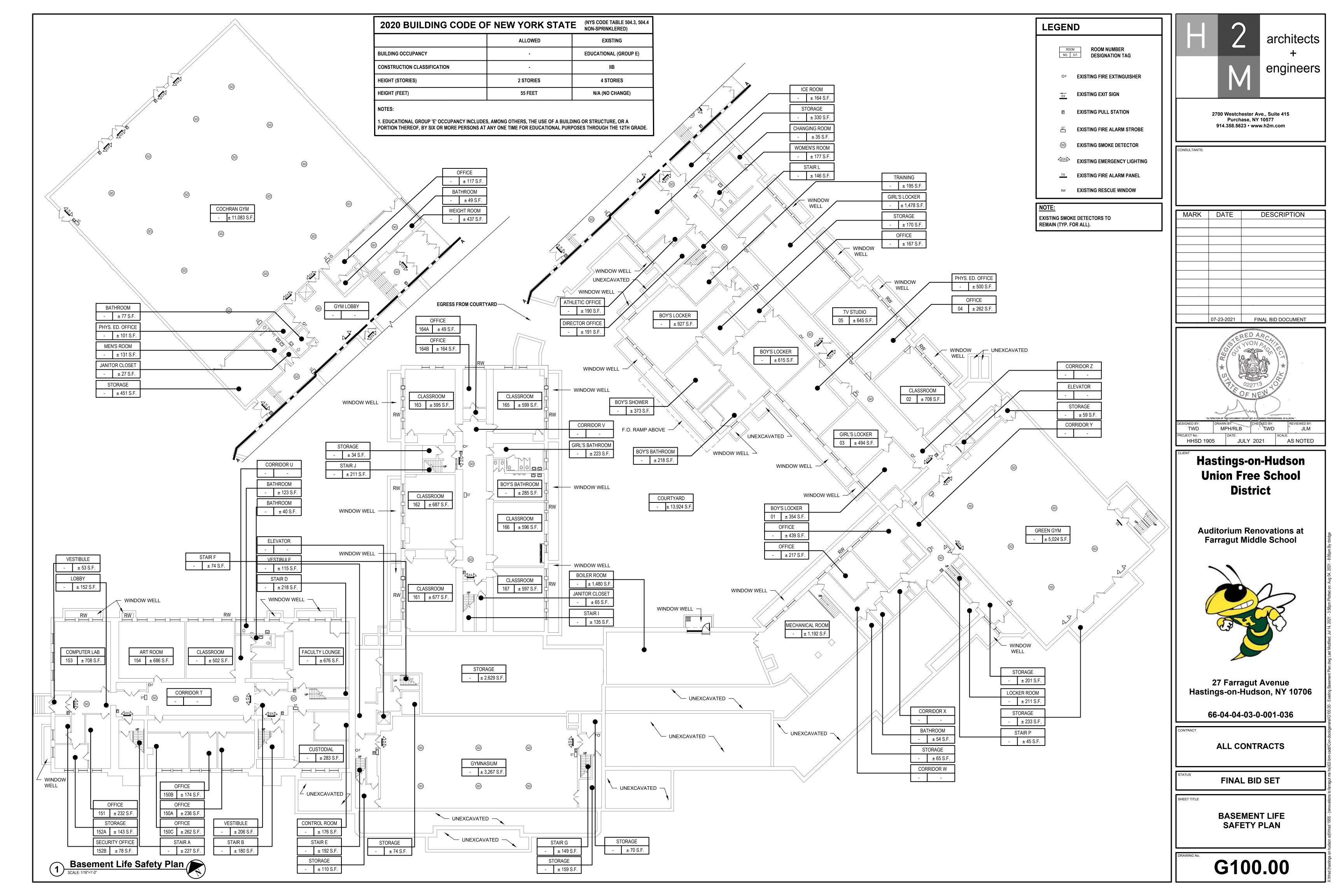
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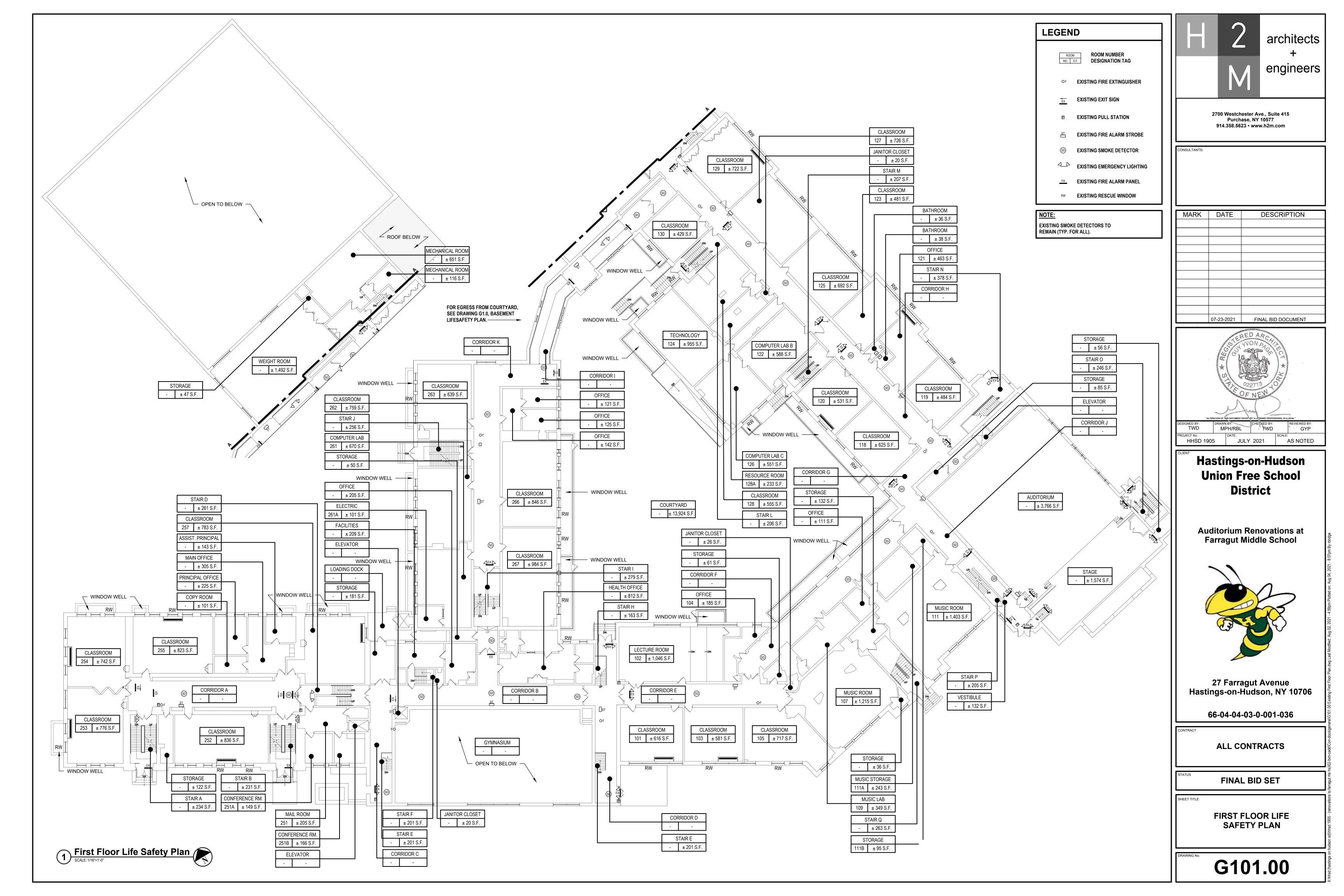
ALL CONTRACTS

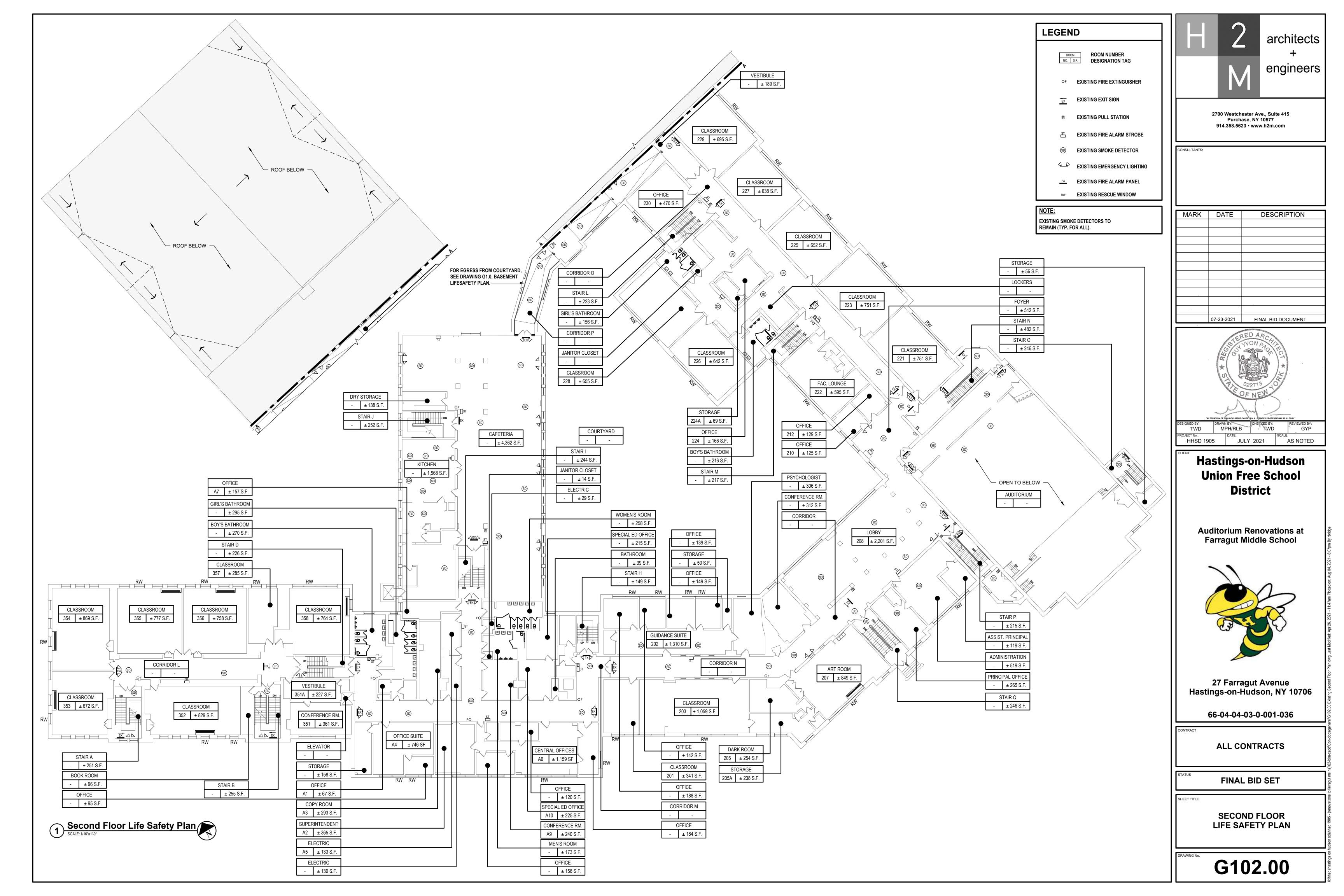
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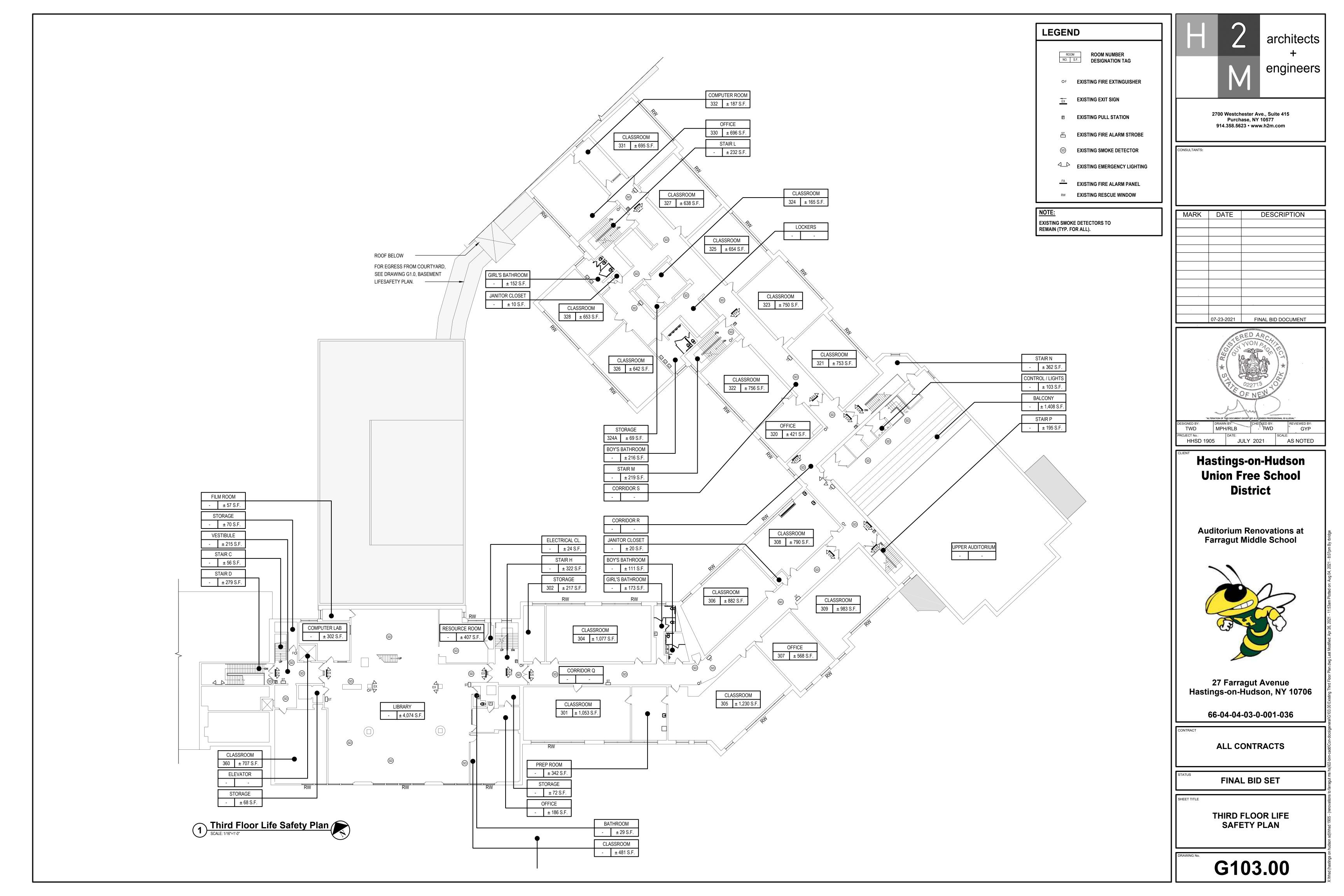
GENERAL NOTES, ABBREVIATIONS, DRAWING LIST, STAGING PLAN, LOCATION MAP & LEGEND

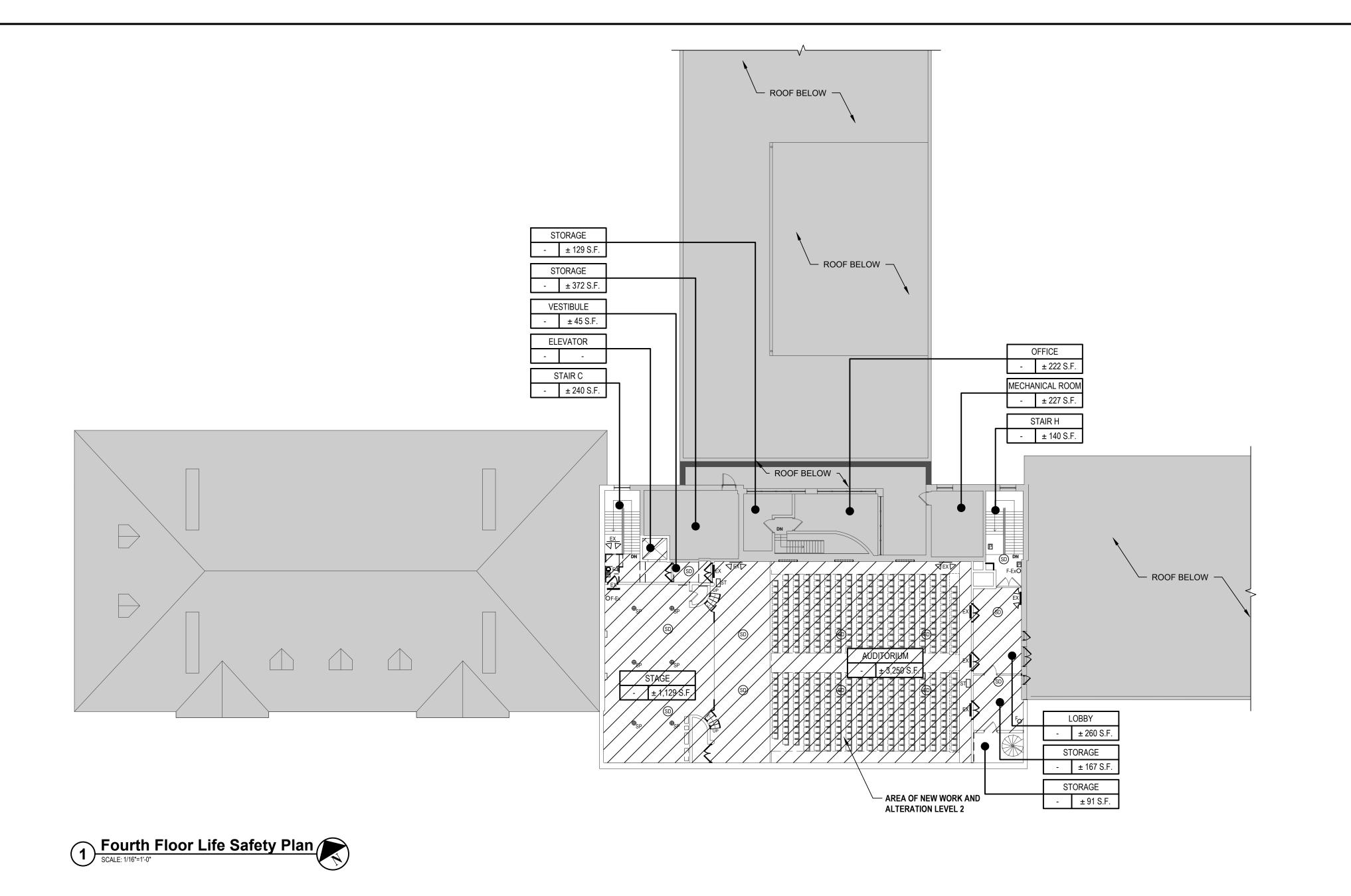
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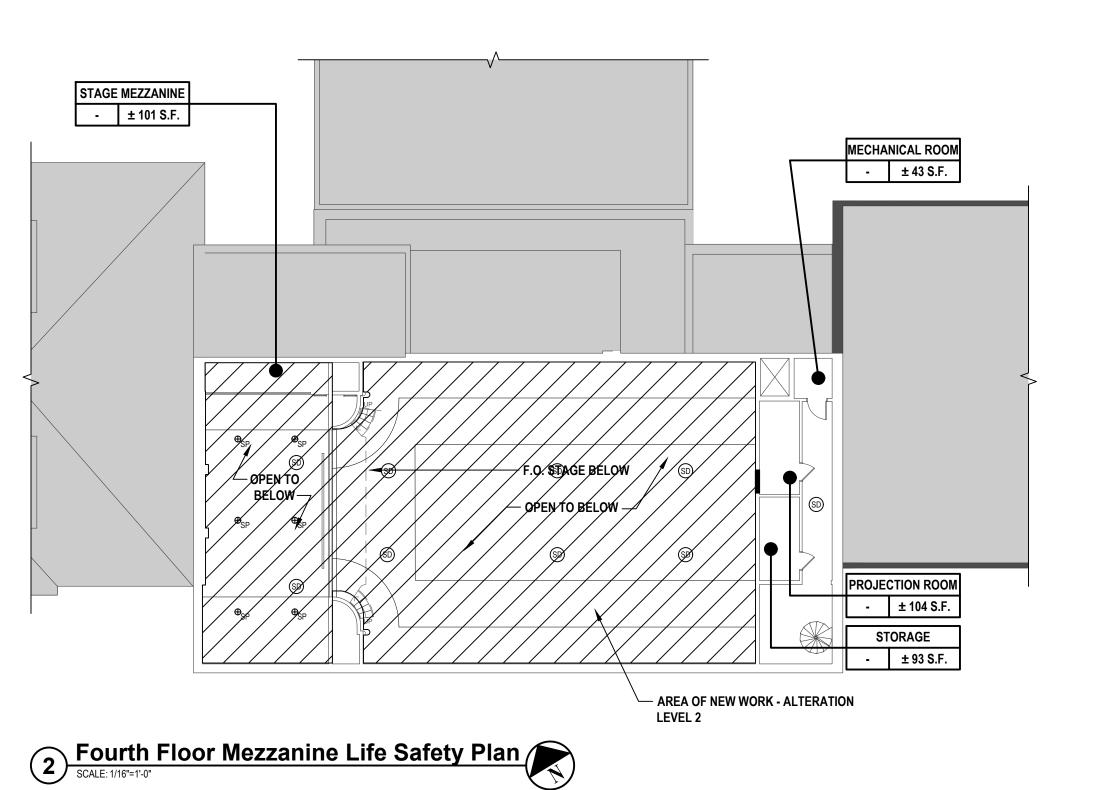














ROOM NUMBER
NO. S.F. DESIGNATION TAG

OF-EX EXISTING FIRE EXTINGUISHER

TYISTING EYIT SIGN

■ EXISTING PULL STATION

EXISTING FIRE ALARM STROBE

© EXISTING SMOKE DETECTOR

4 P EXISTING EMERGENCY LIGHTING

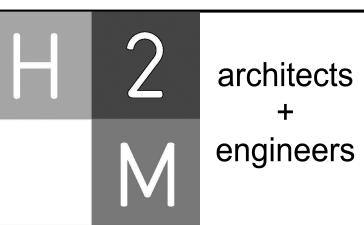
RW EXISTING RESCUE WINDOW

FA EXISTING FIRE ALARM PANEL

NOTE:

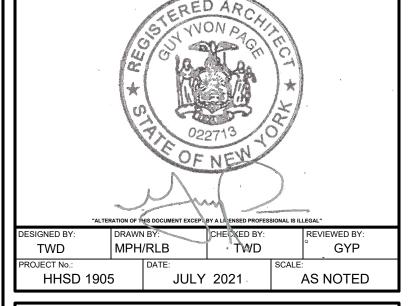
EXISTING SMOKE DETECTORS TO REMAIN (TYP. FOR ALL).

INDICATES APPROXIMATE AREA
OF INTERIOR ALTERATIONS
ALTERATION LEVEL 2



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MARK	DATE	DESCRIPTION
,		
	07-23-2021	FINAL BID DOCUMENT



Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

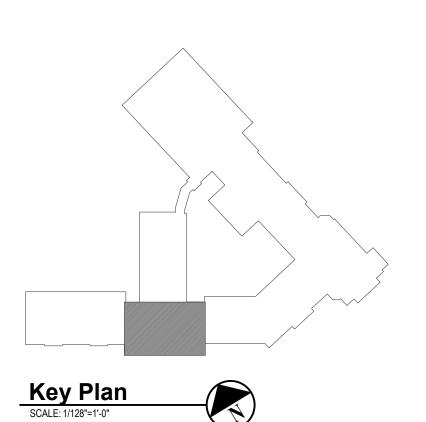
ALL CONTRACTS

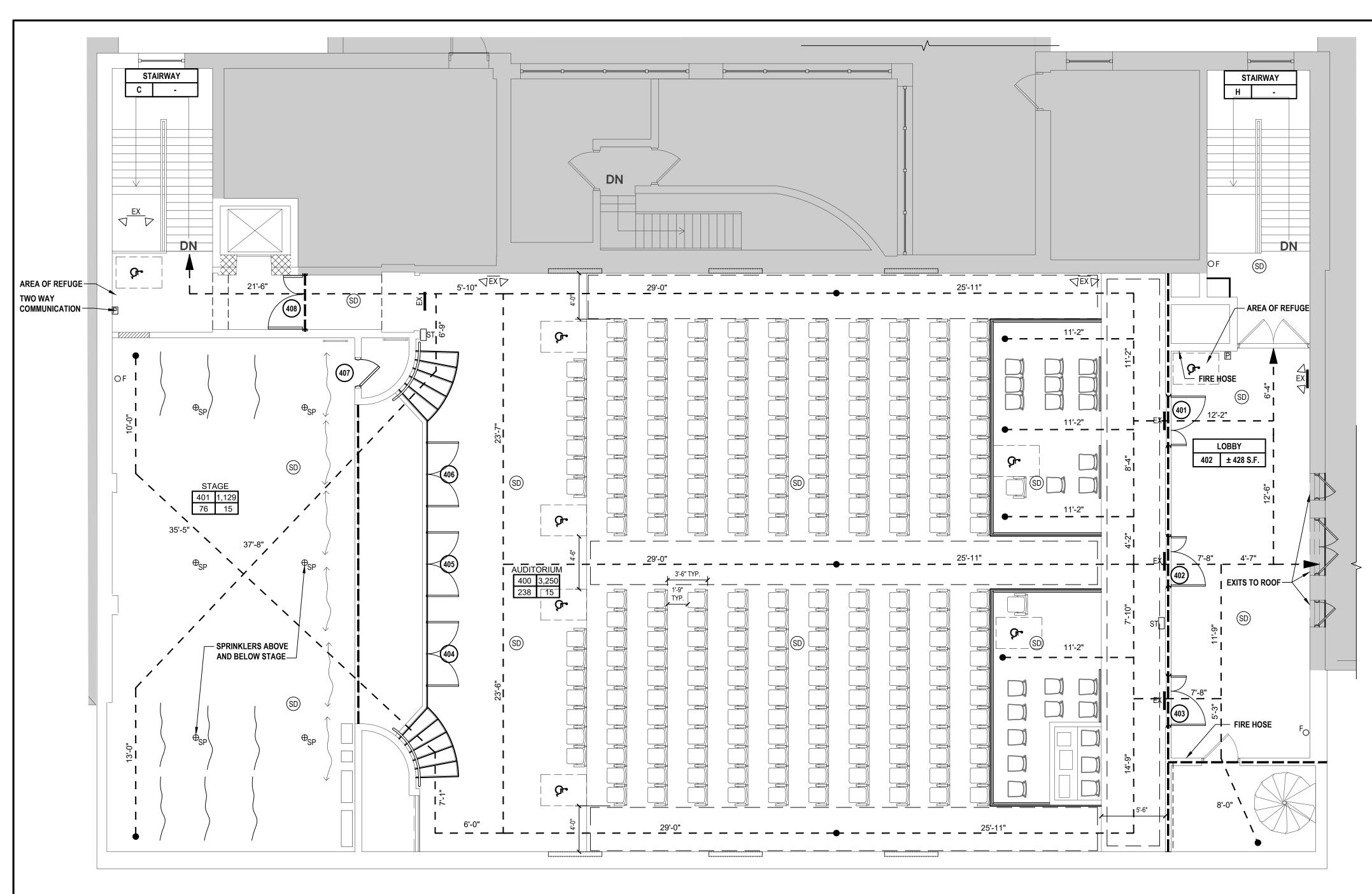
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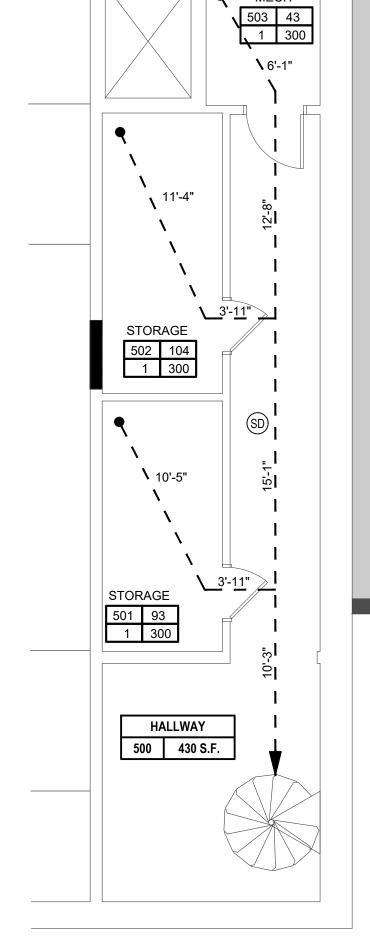
ET TITI E

FOURTH FLOOR AND MEZZANINE LIFE SAFETY PLAN

G104.00







STAGE MEZZ

SCALE: 3/16"=1'-0"Fourth Floor Stage Mezzanine Life Safety Plan

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

LEGEND ROOM NUMBER **DESIGNATION TAG** OF EXISTING FIRE EXTINGUISHER EXISTING EXIT SIGN EXISTING PULL STATION EXISTING FIRE ALARM STROBE **SD** EXISTING SMOKE DETECTOR EXISTING EMERGENCY LIGHTING FA EXISTING FIRE ALARM PANEL RW EXISTING RESCUE WINDOW

EXISTING SMOKE DETECTORS TO REMAIN (TYP. FOR ALL). TOTAL SEAT QUANTITY SEAT TYPE QUANTITY AMBULATORY (FIXED) AMBULATORY (FOLDING) **ACCESSIBLE** COMPANION TOTAL SEATS

> ACCESSIBLE WHEELCHAIR SPACES (PER NYSBC TABLE 1108.2.2.1)

CAPACITY OF SEATING IN ASSEMBLY AREA -236 FIXED SEATS, 28 FOLDING CHAIRS =

264 SEATS TOTAL MIN. REQUIRED NUMBER OF WHEELCHAIR SPACES -5 WHEELCHAIR SPACES EACH W/ **COMPANION SEAT**

Fourth Floor Life Safety Plan SCALE: 3/16"=1'-0"

GENERAL NOTES:

1. ALL INTERIOR WALLS AND CEILING FINISHES MUST MEET OR EXCEED THE REQUIREMENTS STATED IN 2020 NYSBC TABLE 803.11 AND PART II OF SED'S MANUAL OF PLANNING STANDARDS.

- 2. STAIR RISER HEIGHTS SHALL BE 7" MAXIMUM AND 4" MINIMUM. STAIR TREAD DEPTHS SHALL BE 11" MINIMUM PER 2020 NYSBC SECTION 1011.5.2
- 3. EXITS FROM THE BUILDING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE NUMBER OF EXITS AS REQUIRED IN 2020 NYSBC AND SECTION S104 OF SED'S MANUAL OF PLANNING STANDARDS.

SED MANUAL OF PLANNING STANDARDS CODE MINIMUM REQUIREMENTS: S203 FIRE RESISTANT (RATED) CONSTRUCTION (SEE S104-8 AND S106-3)

- A. WALLS, FLOORS, AND CEILINGS OF THE FOLLOWING SPACES SHALL BE OF CONSTRUCTION HAVING AT LEAST THE FIRE RESISTANCE RATINGS LISTED BELOW, WITH NON-COMBUSTIBLE THOSE SPACES HAVING A ROOF OVER THE ENTIRE SPACE MAY HAVE ROOF CONSTRUCTION (AND CEILING) OF NON-RATED FIRE RESISTIVE MATERIALS.
- B. TWO (2) HOUR CONSTRUCTION: 1. BOILER, HEATER OR FURNACE ROOMS (SEE S104-8),
 - 2. REFRIGERATION ROOMS WHICH HOUSE EQUIPMENT WHICH UTILIZES FLAMMABLE
 - A. ELECTRICAL ROOMS: ROOMS HOUSING TRANSFORMERS FOR WHICH THE NATIONAL ELECTRIC CODE REQUIRES A FIRE RATED ENCLOSURE OF LESS
 - RATING THAN THAT REQUIRED FOR A TRANSFORMER VAULT B. EQUIPMENT ROOMS: ROOMS HOUSING ELEVATOR MACHINERY, EMERGENCY GENERATORS,
 - C. EQUIPMENT ROOMS: ROOMS HOUSING ELEVATOR MACHINERY, EMERGENCY GENERATORS, EQUIPMENT WHICH UTILIZES ANY FLAMMABLE LIQUID 3. INCINERATOR ROOMS,
 - 4. STORE ROOMS FOR FUEL, FLAMMABLE LIQUIDS AND GAS POWERED EQUIPMENT,
 - 5. TRANSFORMER VAULTS: AS REQUIRED BY THE NATIONAL ELECTRIC CODE,
 - 6. STAGES (EXCLUDING PROSCENIUM OPENING) OVER 1,000 SQUARE FEET 7. BASEMENT STORAGE AREAS
 - 8. SEPARATION OF BASEMENT AND OTHER LOWER LEVEL AREAS FROM FLOORS ABOVE-RECOMMENDED.
- C. ONE (1) HOUR CONSTRUCTION:
- 1. PROJECTION ROOMS
- 2. STAIRWAY ENCLOSURES 3. SMOKE STOPS, AND BUILDING SERVICE AND MAINTENANCE AREAS - RECOMMENDED.

CAPACITY	OF EXIT STAIRS (PER	MPS)	
STAIR	MIN. STAIR UNIT WIDTH (HALF UNIT OF 11" PERMITTED)	CLEAR WIDTH EXISTING	# STAIR UNITS EXISTING
С	44"	52"	2
Н	44"	52"	2

REQUIRED NUMBER OF EXIT UNITS FOR AUDITORIUM (PER SED MPS)

3,250

1,129

SEATING ON ONE

SIDE OR BOTH

SIDES

ONE SIDE

BOTH SIDES

ONE SIDE

AUDITORIUM

NOTE: 1 R.E.U. = 22" WIDTH

MINIMUM AISLE WIDTH

STAGE

LOCATION

SIDE

MIDDLE

SIDE

CAPACITY OF EXIT STAIRS (PER NYSBC)					
STAIR	MIN. REQ'D. WIDTH	CLEAR WIDTH EXISTING	# OF PERSONS ALLOWED	# OF PERSONS PROPOSED	
С	44" PER MPS	52"	173	173	
Н	44" PER MPS	52"	173	173	

ROOM	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	OOCUPANTS / S.F.
AUDITORIUM	3250+/-		
FIXED SEATING		236	236
CONCENTRATED	360	7	52
STAGE	1129+/-	15	76
STAGE MEZZANINE	101+/-	300	1
MECHANICAL ROOM	43+/-	300	1
STORAGE ROOM	104+/-	300	1
STORAGE ROOM	93+/-	300	1
TOTAL =			368

SQUARE FOOTAGE | FLOOR AREA PER R.E.U. | REQUIRED # OF R.E.U. | R.E.U.'S PROVIDED

MIN. AISLE

WIDTH

42"

36"

REQUIRED BY MPS NYSBC

30"

36"

30"

EXITS THRU AUDITORIUM

BY MPS

38"

42 1/2"

38"

PROPOSED

48"

54"

48"

ADDITIONAL WIDTH | AVERAGE AISLE

| MIN. AISLE WIDTH | REQUIRED BY | PER EXIT DISTANCE | WIDTH REQUIRED | AISLE WIDTH

PER MPS

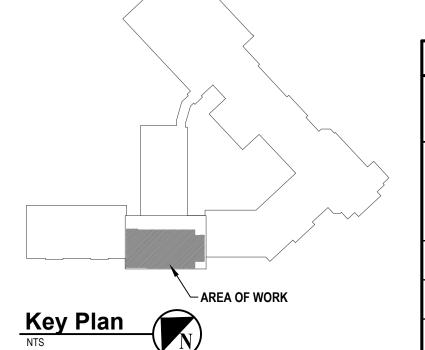
16"

13"

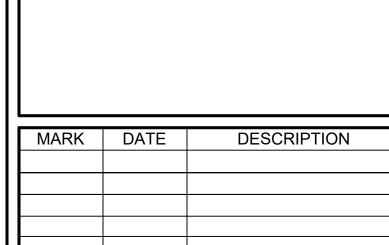
16"

CAPACITYOF	EXIT ACCESS DOO	RS (PER SED MPS)	
DOOR#	WIDTH REQ'D. (MIN. R.E.U. WIDTH 22")	CLEAR WIDTH PROPOSED	# OF R.E.U.'S PROPOSED
401	32"	50"	2
402	32"	50"	2
403	32"	50"	2
408	32"	48"	2
STAIR H DOOR	32"	68" (EXISTING)	3
ROOF EXIT A	32"	23" (EXISTING)	1
ROOF EXIT B	32"	55" (EXISTING)	2
ROOF EXIT C	32"	23" (EXISTING)	1

	MIN. CLEAR		MAX. # OF PERSONS	MAX # OF PERSONS
DOOR #	WIDTH	CLEAR WIDTH PROPOSED	ALLOWED	PROPOSED
401	32"	50"	250	60
402	32"	50"	250	60 (MAIN EXIT 173)
403	32"	50"	250	60
408	32"	48"	240	173
STAIR H DOOR	32"	68" (EXISTING)	340	173
ROOF EXIT A	32"	23" (EXISTING)	115	0
ROOF EXIT B	32"	55" (EXISTING)	275	0
ROOF EXIT C	32"	23" (EXISTING)	115	0



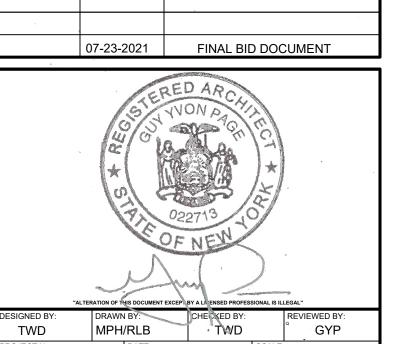
LEGEND	
	FIRE/SMOKE PARTITION WALL (NYSBC SECTION 708 & 709) - 1 HOUR MIN. FIRE RESISTANT WALL W/ 3/4 HOUR MIN. FIRE AND SMOKE RESISTANT
OCCUPANCY — ROOM # — — # OF PERSONS —	ROOM NAME 101 SF AREA (SF) # USE OCCUPANCY GROUP
101	EXIT DOOR
101	EXIT DOOR EXIT ACCESS DOOR



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engineers



Hastings-on-Hudson Union Free School District

JULY 2021

AS NOTED

HHSD 1905

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

ALL CONTRACTS

FINAL BID SET

AUDITORIUM CODE SHEET

G105.00

Pourth Floor Mezzanine Life Safety Plan

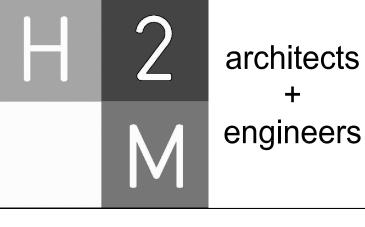
SCALE: 3/16"=1'-0"

ASBESTOS ABATEMENT GENERAL NOTES

GENERAL NOTES:

- 1. ALL ASBESTOS REMOVAL SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAW, GUIDELINES, REGULATIONS, ORDERS AND DIRECTIVES, INCLUDING WITHOUT LIMITATIONS, THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA), AND U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH (NIOSH), AND NEW YOK STATE DEPARTMENT OF LABOR (NYSDOL).
- 2. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, SERVICES, ETC., NECESSARY TO PERFORM THE WORK REQUIRED FOR ASBESTOS ABATEMENT IN ACCORDANCE WITH CONTRACT DOCUMENTS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
- 3. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A WRITTEN STANDARD PROCEDURE FOR ABATEMENT WORK TO ENSURE MAXIMUM PROTECTION AND SAFEGUARD FROM ASBESTOS EXPOSURE OF THE WORKERS, VISITORS, EMPLOYEES, GENERAL PUBLIC, AND THE ENVIRONMENT.
- 4. CONTRACTOR SHALL PROVIDE SIGNS, LABELS, WARNINGS, AND POST INSTRUCTIONS THAT ARE NECESSARY TO PROTECT, INFORM AND WARN PEOPLE OF THE HAZARD FROM ASBESTOS EXPOSURE. POST IN A PROMINENT AND CONVENIENT PLACE FOR THE WORKERS A COPY OF THE LATEST APPLICABLE REGULATIONS FROM OSHA. EPA. NIOSH AND NYSDOL.
- 5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATION.
- 6. THE CONTRACTOR SHALL RELOCATE ALL FURNITURE, LOCKERS, DESKS AND OTHER MISC. ITEMS IN AND OUT OF THE WORK AREAS TO ACCOMODATE ASBESTOS ACTIVITIES.
- 7. THE CONTRACTOR SHALL PROVIDE ALL ELECTRICAL, WATER, AND WASTE CONNECTIONS, TIE-INS, EXTENSIONS, CONSTRUCTION MATERIALS, SUPPLIES, ETC. AS REQUIRED TO FACILITATE ASBESTOS REMOVAL.
- 8. CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRIC AND LIGHT THROUGHOUT THE WORK AREA(S) AS REQUIRED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND CODES.
- 9. THE CONTRACTOR SHALL ESTABLISH CRITICAL BARRIERS OVER ALL OPENINGS LOCATED INSIDE THE PARTICULAR WORK AREA AS WELL AS INSIDE THE SCHOOL.
- 10. CONTRACTOR SHALL PROPERLY PROTECT ALL CONTROLS, TUBING, ELECTRICAL PANELS, EQUIPMENT, ETC. WITHIN THE WORK AREA.
- 11. THE CONTRACTOR SHALL BE REQUIRED TO ISSUE NON-WHITE WORK COVERALLS FOR ALL ABATEMENT WORKERS.
- 12. CONTRACTOR SHALL EXERCISE EXTREME CARE AND CAUTION DURING ANY AND ALL DEMOLITION AND ABATEMENT OPERATIONS. CONTRACTOR SHALL CONDUCT REMOVAL OF ALL MATERIALS FROM THE SITE WITH MINIMUM DISTURBANCE; PROVIDE PROPER PROTECTION AND REGULAR MAINTENANCE OF ALL BUILDING PREMISES DIRECTLY OR INDIRECTLY ASSOCIATED WITH ABATEMENT OPERATIONS.
- 13. CONTRACTOR SHALL LOCATE AND SEAL ALL PENETRATIONS THROUGH WALLS BETWEEN THE WORK AREA AND ADJACENT AREAS, INCLUDING, BUT NOT LIMITED TO PIPE, DUCT, CONDUIT, CHASES, AND OPENINGS IN FIRE WALLS OR DECKS BETWEEN FLOORS AS REQUIRED BY THE FIELD CONDITION.
- 14. THE CONTRACTOR SHALL USE A WATER SPRAYER TO WET ASBESTOS CONTAINING MATERIALS INSIDE THE WORK AREA.
- 15. CONTRACTOR SHALL CONSTRUCT A PERSONAL/WASTE DECONTAMINATION ENCLOSURE SYSTEM (P./W.D.E.S.) AS INDICATED. IT SHALL BE OF SUFFICIENT SIZE TO ACCOMMODATE STORAGE OF MATERIALS, EQUIPMENT, ETC. .
- 16. SHOWER AND WASTEWATER MUST BE FILTERED AND DISPOSED OF IN THE BUILDING'S SANITARY SYSTEM. REFER TO CONTRACT SPECIFICATIONS.
- 17. IF WATER IS NOT AVAILABLE, THE CONTRACTOR SHALL PROVIDE A 55 GALLON WATER TANK FOR THE DECONTAMINATION UNIT.
- 18. THE CONTRACTOR SHALL UTILIZE GFCI PANEL CONNECTIONS AT THE SOURCE OUTLET WHEN ACCESSING TEMPORARY POWER.
- 19. CONTRACTOR SHALL SUPPLY ALL NECESSARY CONNECTIONS, FASTENERS, FLEXIBLE DUCTS, MANIFOLDS, SUPPORTS, ETC. ANY AND ALL INSTALLATIONS SHALL COMPLY WITH CONTRACT DOCUMENTS AND MANUFACTURER'S REQUIREMENTS.
- 20. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE TEMPORARY WATER AND POWER SOURCES PRIOR TO ABATEMENT ACTIVITIES.
- 21. DEBRIS RESULTING FROM ANY DEMOLITION AND/OR ASBESTOS ABATEMENT ACTIVITIES SHALL BE DISPOSED OF AS ASBESTOS CONTAMINATED WASTE.
- 22. NO WASTE SHALL BE STORED ON SITE OR INSIDE THE DECONTAMINATION UNIT BETWEEN SHIFTS. WASTE SHALL BE DOUBLE BAGGED BEFORE PROCEEDING TO THE CONTAINER AND/OR DECON. BAGS WILL BE MOVED FROM WORK AREAS TO THE WASTE DECON AND SUBSEQUENTLY TO THE CONTAINER IN COVERED CARTS. BAGS WILL BE CARRIED BY HAND ONLY WHEN NECESSARY. ALL WASTE SHALL BE CONTAINERIZED AT THE END OF EACH WORK SHIFT BEFORE RELINQUISHING TO WASTE HAULER.
- 23. CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONFIRM THE EXACT SCOPE OF WORK FOR EACH PHASE OF ABATEMENT WITH THE GENERAL CONTRACTOR AND OTHER TRADES.
- 24. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, TOOLS, TRANSPORTATION AND ANY OTHER EQUIPMENT REQUIRED AND/OR NECESSARY TO COMPLETE ALL WORK DESCRIBED IN THE CONTRACT DOCUMENTS.
- 25. THE LOCATION OF THE PERSONAL/WASTE DECONTAMINATION UNITS, AIRLOCKS, ETC. IS SHOWN FOR REFERENCE PURPOSES. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD.

DRAWING	DRAWING NAME
H-001.00	ASBESTOS ABATEMENT - GENERAL NOTES
H-003.00	ASBESTOS ABATEMENT - FOURTH FLOOR PLAN



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MARK	DATE	DESCRIPTION
	07-23-2021	FINAL BID DOCUMENT

"ALTERATIO	ON OF THIS DOCUMENT EXCEPT I	BY A LICENSED PROFESS	IONAL IS ILLI	EGAL"	
DESIGNED BY: DR	RAWN BY:	CHECKED BY:		REVIEWED BY:	
SE	JP	ML		CN	
PROJECT No.:	DATE:	2021	SCALE:		
SE	JP	ML		CN	_

Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Midde School, Music Suite Renovations at Farragut High School



27 Farragut Avenue Hastings-on-Hudson, NY 10706 SED Number

SED Number 66-04-04-03-0-001-036

ALL CONTRACTS

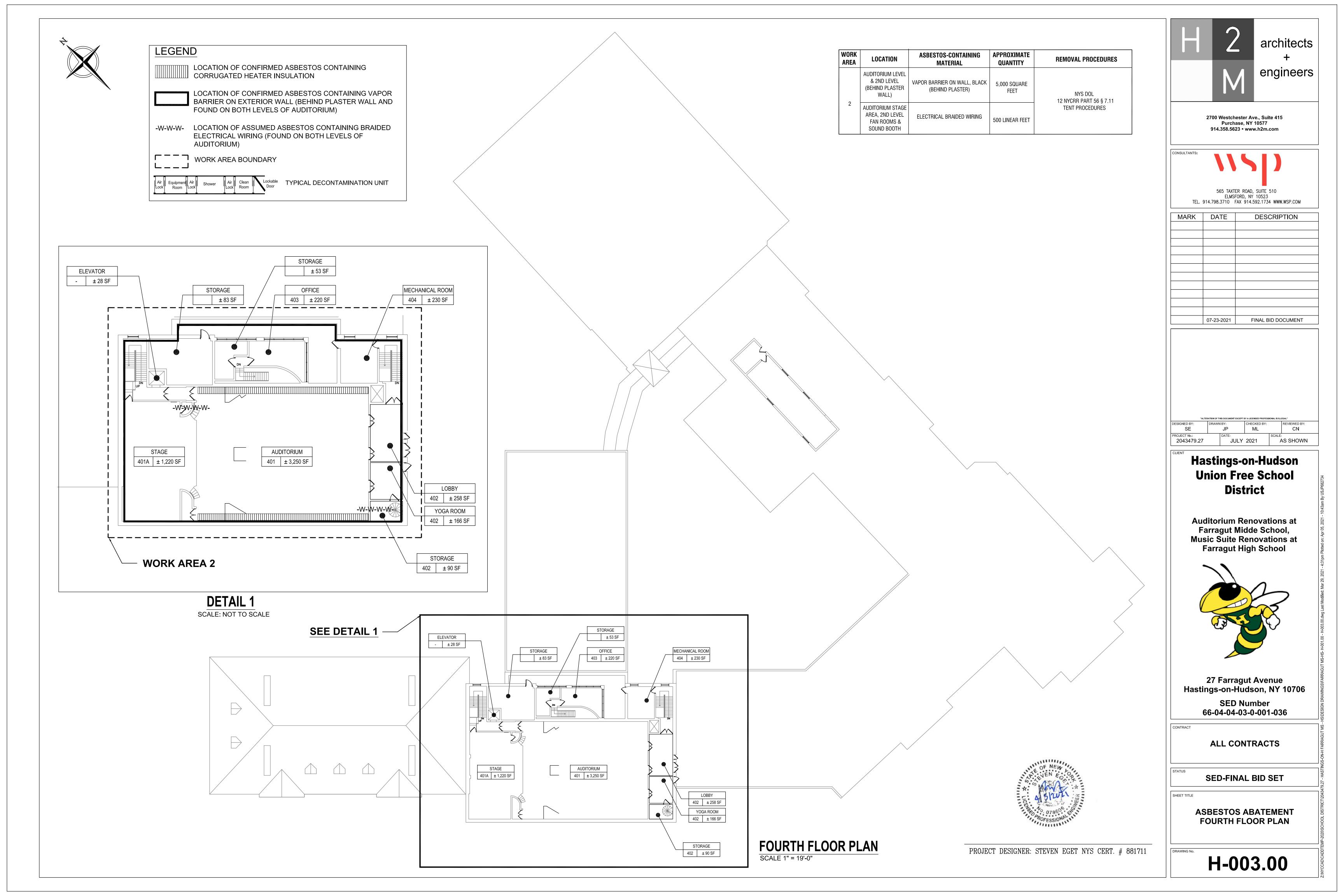
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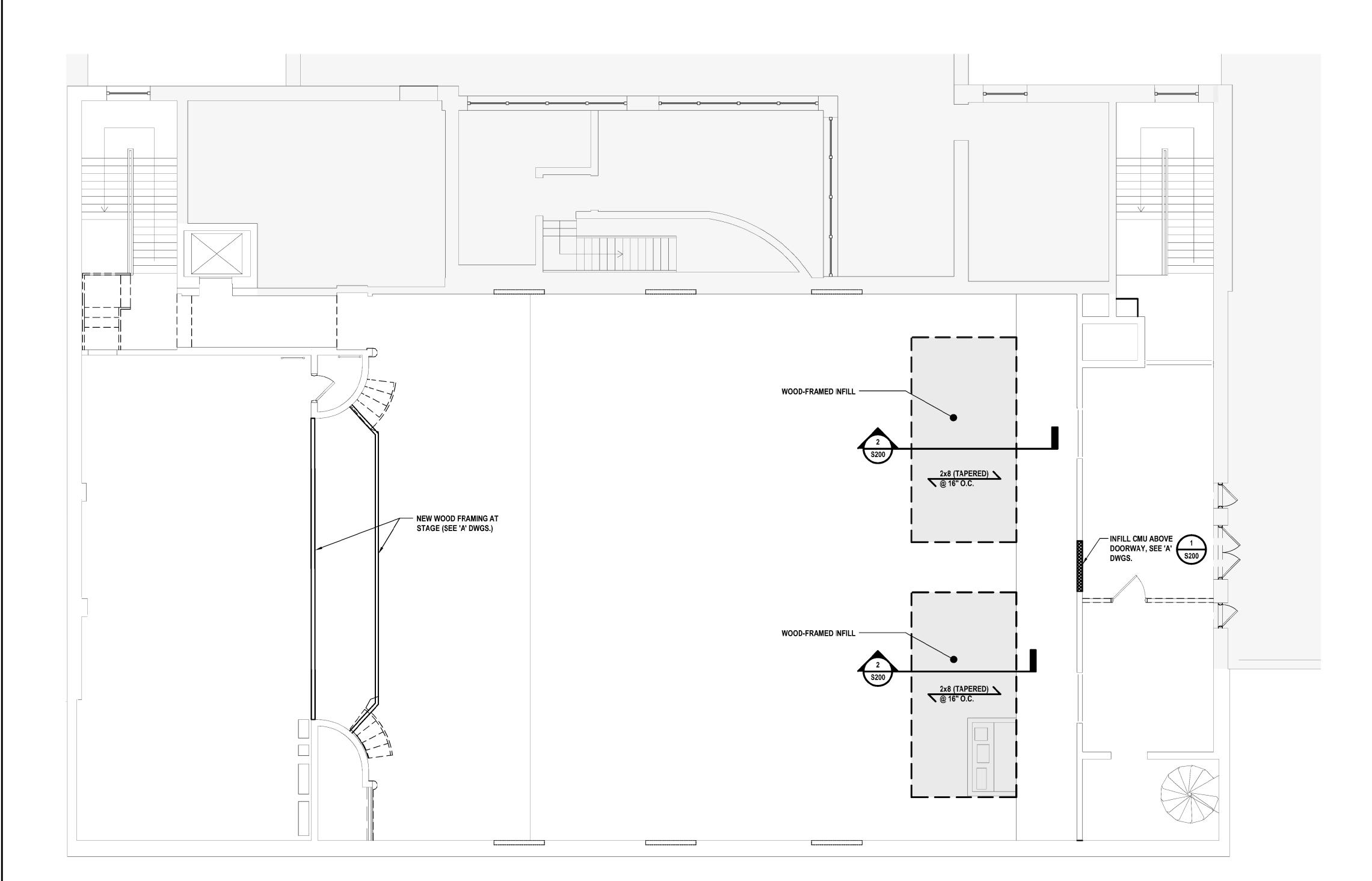
SHEET

ASBESTOS ABATEMENT GENERAL NOTES

H-001.00







DESIGN CRITERIA:

ALL DESIGN LOADS ARE IN ACCORDANCE WITH 2020 NYS BC.

1. DEAD LOADS

RTU-1 2373 LBS

RTU-2 1449 LBS

4TH FLOOR DEAD LOAD 50 PSF

PRESUMED EXIST. ROOF DEAD LOAD: 30 PSF

2. LIVE LOADS

4TH FLOOR LIVE LOAD: 100 PSF
ROOF LIVE LOAD: 20 PSF

3. SNOW LOADS

GROUND SNOW LOAD:

GROUND SNOW LOAD:

EXPOSURE FACTOR:

IMPORTANCE FACTOR:

THERMAL FACTOR:

FLAT ROOF SNOW LOAD:

Pg = 20 PSF

1.1

Ct = 1.0

Pf = 22 PSF

4. WIND LOADS

BASIC WIND SPEED: 124 MPH
Vasd: 96 MPH
EXPOSURE: B
EXPOSURE ADJUSTMENT FACTOR: 1.00

INTERNAL PRESSURE COEFFICIENT: Gcp = ±0.18 (ENCLOSED BUILDING)

5. SEISMIC CRITERIA:

SITE CLASS: D

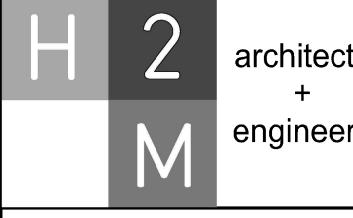
OCCUPANCY CATEGORY: III

IMPORTANCE FACTOR

Ie = 1.25

Ss = 0.298g S1 = 0.061g
Fa = 1.562 Fv = 2.4
Sms = 0.465g Sm1 = 0.147g
Sds = 0.310g Sd1 = 0.098g
SEISMIC DESIGN CATEGORY: B

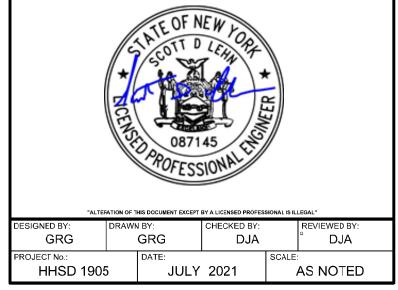
6. SOIL BEARING CAPACITY: 2,000 PSF NET ALLOWABLE SOIL PRESSURE AS PER IBC PRESUMPTIVE LOAD BEARING TABLE 1806.2



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SULTANTS:

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Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

CONTRACT G
GENERAL CONSTRUCTION

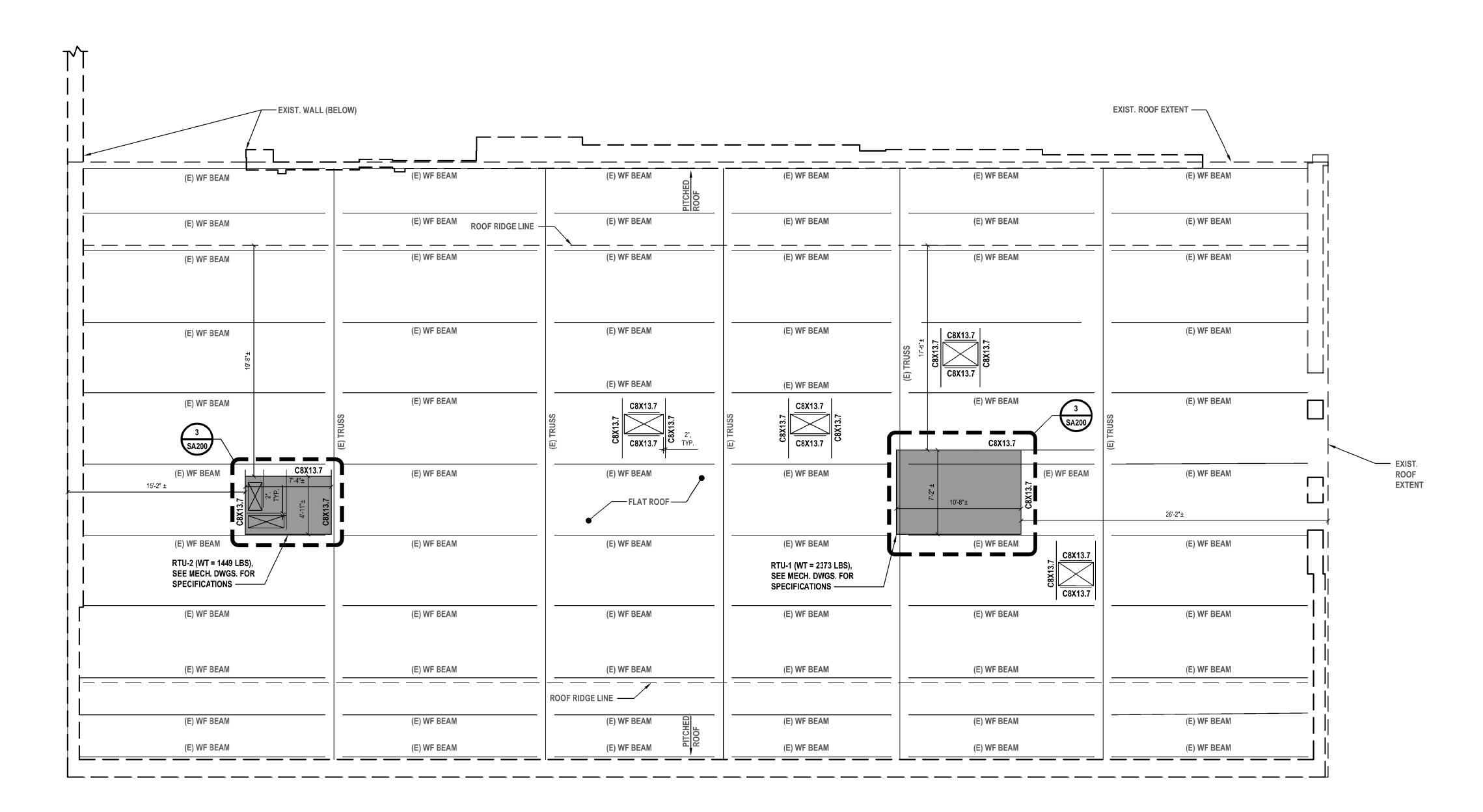
FINAL BID SET

SHEET T

AUDITORIUM PLAN & DESIGN LOADS

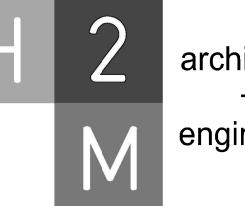
SA100.00

4th Floor Plan
SCALE: 3/16"=1'-0"



NOTES:

- 1. LOCATION OF NEW UNITS SHALL BE COORDINATED IN THE FIELD BASED ON THE LOCATION OF THE EXISTING OPEN WEB BAR JOISTS AND STEEL BEAMS.
- 2. IN LOCATIONS WHERE EDGE OF NEW UNIT CURB IS LOCATED ABOVE EXISTING FRAMING, NEW C4x5.4 FRAMING MAY BE OMITTED. MAXIMUM ECCENTRICITY OF 3" SHALL BE PERMITTED FROM EDGE OF EXISTING FRAMING TO EDGE OF ROOF CURB WITHOUT REQUIRING NEW C4 FRAMING.
- 3. FINAL DIMENSIONS OF HVAC UNITS SHALL BE COORDINATED WITH THE UNIT MANUFACTURER.
- 4. DIMENSIONS ARE ± AND SHOULD BE COORDINATED WITH APPROVED RTU MANUFACTURER AND HVAC TRADE WORK.
- 5. ALL WORK DEPICTED ON THIS SHEET HAS BEEN COORDINATED WITH THE HVAC EQUIPMENT REFERENCED ON THE 'H' DRAWINGS. ANY DEVIATION FROM THE INFORMATION SHOWN ON THE 'H' DRAWINGS SHALL BE COORDINATED WITH THIS SHEET AND APPROVED BY THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL RETAIN A NYS-LICENSED PROFESSIONAL ENGINEER TO DESIGN AND PLAN ALL STAGING AND SHORING NECESSARY TO INSTALL THE STEEL AND HVAC EQUIPMENT ON THESE DRAWINGS. THE PLASTER CEILING BELOW THE AREA OF WORK SHALL REMAIN DURING CONSTRUCTION AND BE REPAIRED AS NECESSARY IF DAMAGED.
- 7. EXISTING ROOF TEES SHALL BE RE-ATTACHED TO NEW STEEL FRAMING IN AREAS WHERE THEY HAVE BEEN CUT AND SUPPORT CONDITION MODIFIED, TYPICAL.
- 8. EXISTING DECKING SHALL BE REPAIRED AND REPLACED AS NECESSARY IF DAMAGED.



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	"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"					
	DESIGNED BY:	DRAWN BY:		CHECKED BY:		REVIEWED BY:
	GRG	GRG		DJA		[°] DJA
	PROJECT No.:		DATE:		SCALE	
	HHSD 1905 JULY		2021	,	AS NOTED	
•						

Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

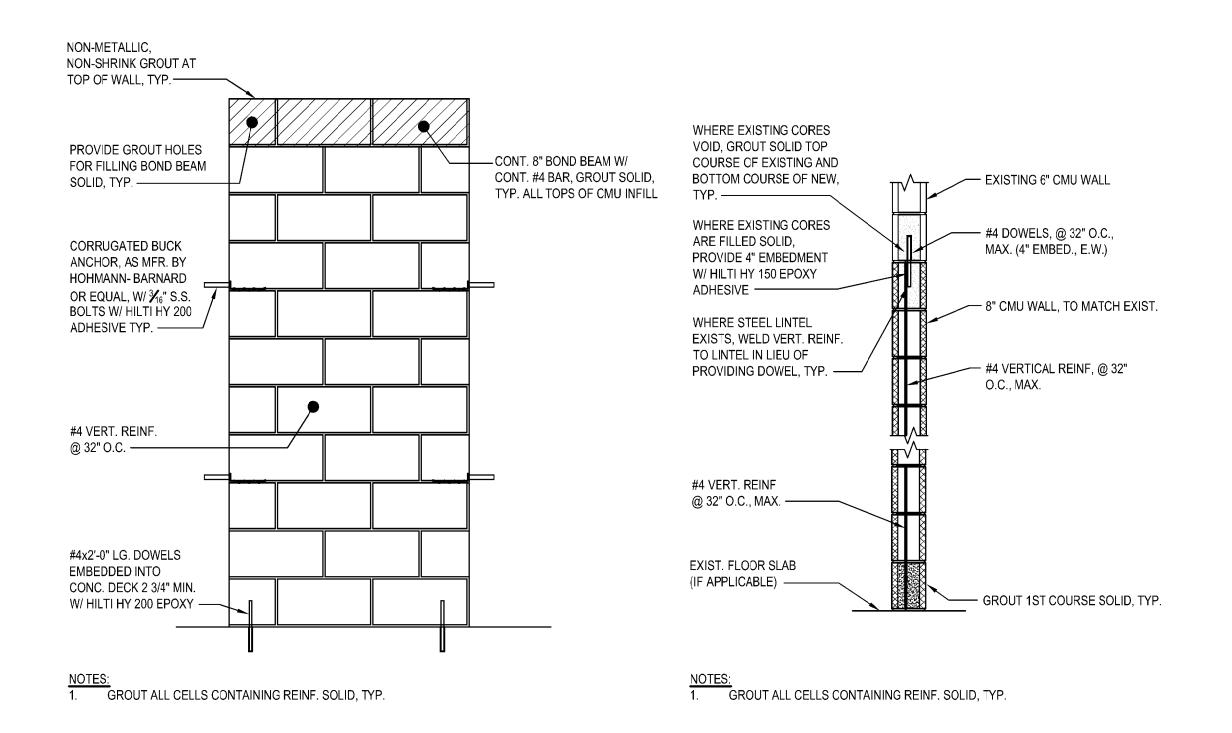
CONTRACT G GENERAL CONSTRUCTION

FINAL BID SET

ROOF FRAMING PLAN

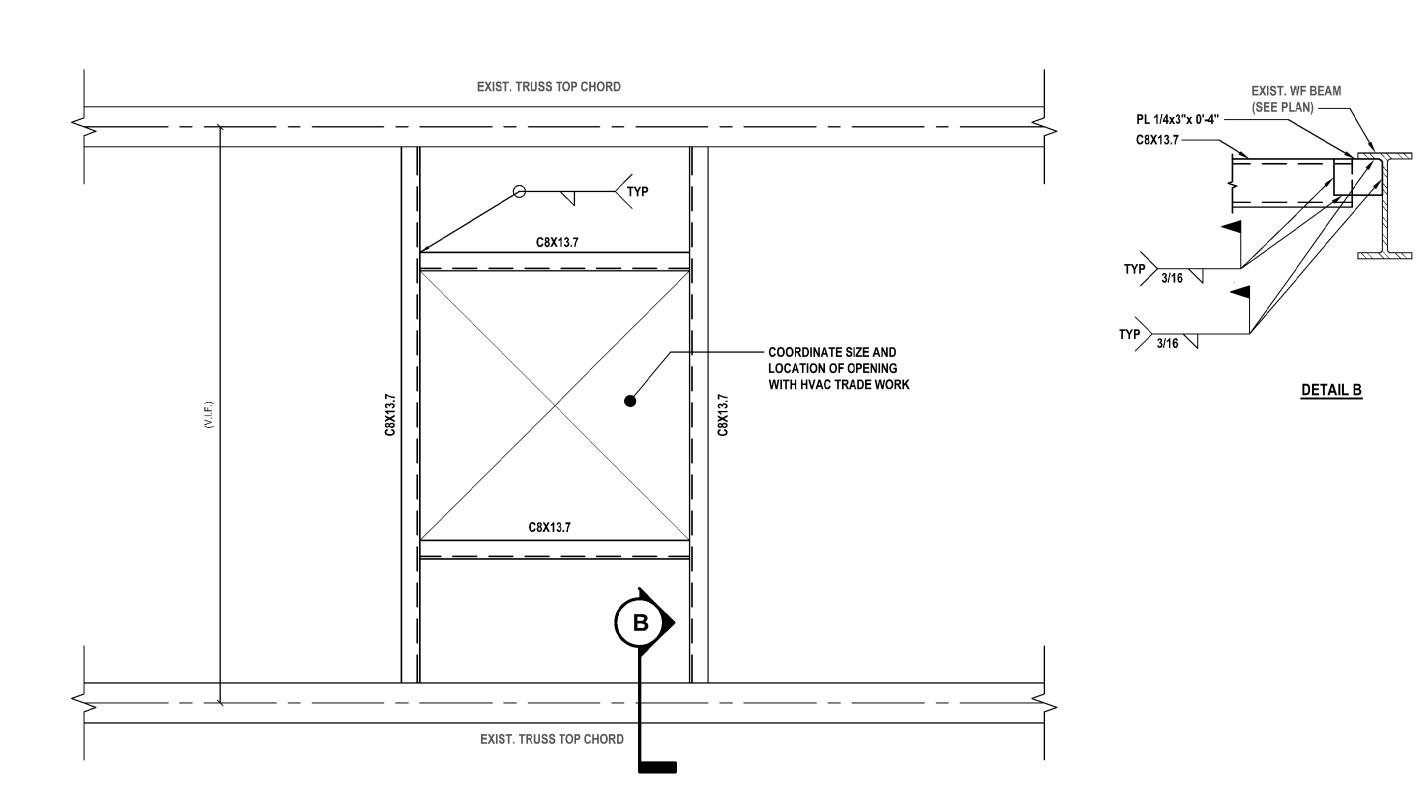
SA110.00

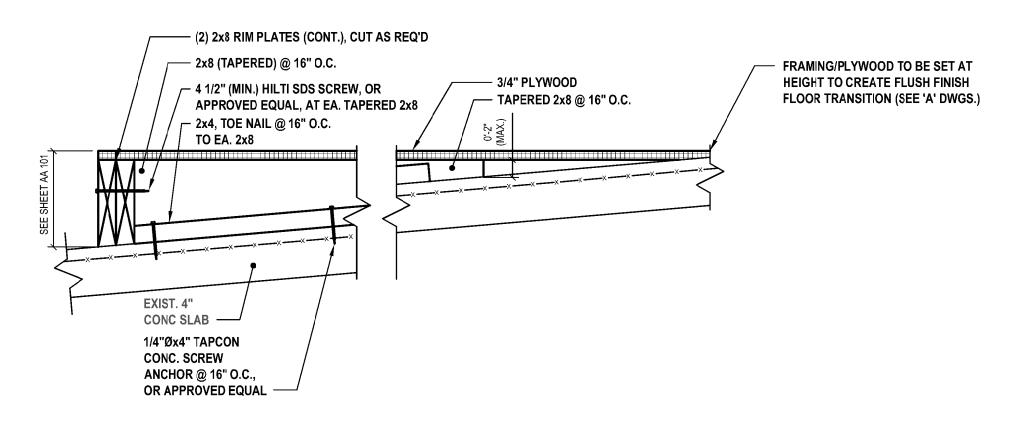
Roof Framing Plan
SCALE: 3/16"=1'.0"



1 CMU Opening Infill SCALE: 1"=1'-0"

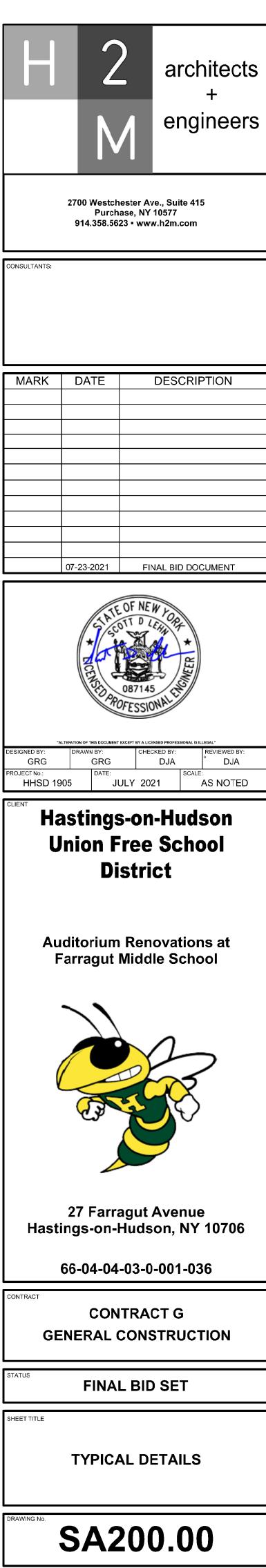
3 RTU Roof Framing Support
SCALE: N.T.S.





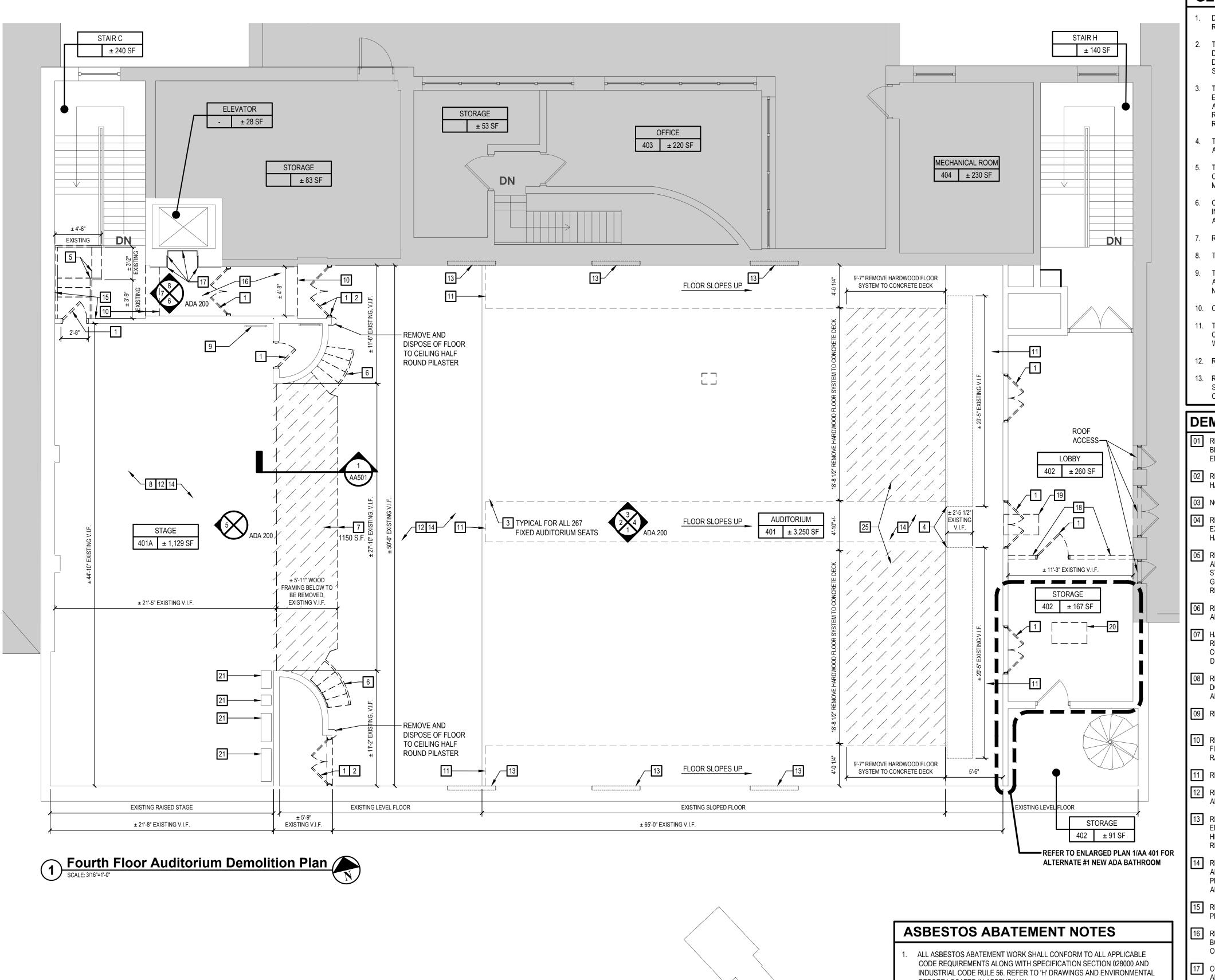
NOTES:
1. NAIL PLYWOOD TO 2x8 FRAMING USING 10d NAILS @ 16" O.C. (MIN.).

2 Raised Platform Infill
SCALE: 1 1/2"=1'-0"



DJA

AS NOTED



Key Plan

IO ± S.F.

DEMOLITION LEGEND

ROOM NUMBER

DOOR TAG

DESIGNATION TAG

KEYED NOTE INDICATOR

INDICATES EXISTING

CONSTRUCTION TO

INDICATES EXISTING

DOORS AND FRAME

TO BE REMOVED

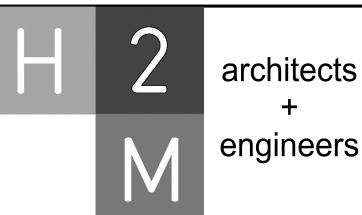
- REPORT LOCATED IN APPENDIX 'A'.
- ALL MATERIALS ASSOCIATED WITH THIS PROJECT HAVE BEEN TESTED FOR THE PRESENCE OF ASBESTOS AND LEAD. LOCATIONS HAVE BEEN IDENTIFIED IN SPECIFICATION 028200 AND THE REPORT IS LOCATED IN APPENDIX 'A'.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM PERSONAL AIR MONITORING ON ITS EMPLOYEES IN ACCORDANCE WITH OSHA REGULATIONS.
- THIRD PARTY PROJECT MONITORING AND AIR SAMPLING SHALL BE CONDUCTED BY A CONSULTANT FIRM HIRED DIRECTLY BY THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO FILE FOR ALL PERMITS AND NOTIFY ALL REGULATORY AGENCIES AS REQUIRED FOR THE WORK AND PAY ALL FEES ASSOCIATED WITH SUCH.
- UPON COMPLETION OF THE DEMOLITION WORK, THE CONTRACTOR SHALL SUBMIT COPIES OF ALL WASTE MANIFEST AND LANDFILL RECEIPTS TO THE ARCHITECT AS PART OF THE REQUIRED CLOSEOUT DOCUMENTS.
- ALL OPENINGS AND PENETRATIONS INCLUDING BUT NOT LIMITED TO WINDOWS, DOORS, DUCTS, LOUVERS AND GRILLES WITHIN AREAS OF ABATEMENT SHALL BE COVERED WITH A MINIMUM OF TWO (2) LAYERS OF 6 MIL PLASTIC.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING HVAC **EQUIPMENT AND ROOF VENTS.**

GENERAL DEMOLITION NOTES

- DEMOLITION WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL AND NEW YORK STATE BUILDING AND LIFE SAFETY
- THE CONTRACTOR SHALL PROTECT ALL PORTIONS OF THE EXISTING BUILDING WHERE NEW WORK IS TO BE COMPLETED FROM DUST, WEATHER INCLEMENCY AND FREEZING. PROVIDE DUST FREE BARRIER PARTITIONS DURING DEMOLITION TO PREVENT DEBRIS FROM ENTERING NON-WORK AREAS. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO THE EXISTIN STRUCTURE OR BUILDING CONTENTS.
- THE CONTRACTOR ACCESS SHALL BE AS CALLED OUT ON SHEET G000.00. THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING FINISHES SCHEDULED TO REMAIN ALONG THE ACCESS ROUTE AND ADJOINING SURFACES OUTSIDE THE CONTRACT AREA OR SCOPE OF WORK FROM DAMAGE DURING THE PROJECT DURATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE EXISTING CONDITIONS AND/OR FINISHES DAMAGED DURING CONSTRUCTION INCLUDING PATCHING AND PAINTING AS REQUIRED AND DEEMED NECESSARY BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS AND UNWANTED MATERIAL OFF SITE IN ACCORDANCE WITH APPLICABLE FEDERAL AND NEW YORK STATE BUILDING AND LIFE SAFETY REGULATIONS.
- THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ADJOINING SURFACES AND FINISHES DURING DEMOLITION. THE CONTRACTOR SHALL PATCH AND REPAIR ALL ADJACENT SURFACES DAMAGED DURING DEMOLITION . CONTRACTOR SHALL MATCH ALL ADJACENT FINISHES.
- OVER-DEMOLITION SHALL BE ALLOWED PROVIDED THAT ALL SURFACES SHALL BE REBUILT TO MATCH MATERIALS, STRUCTURAL INTEGRITY AND APPEARANCE OF THOSE WHICH WERE REMOVED IN CONFORMANCE WITH CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER.
- REMOVE ALL ITEMS THAT WILL BE ABANDONED AS A RESULT OF THE WORK BEING PERFORMED.
- . THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND QUANTITIES OF ALL ITEMS PRIOR TO BID.
- THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE PARKING LOT PAVING. CONCRETE SIDEWALKS, LANDSCAPING, GRASS AREAS AND EXTERIOR FINISHES. ANY DAMAGED AREAS SHALL BE RESTORED TO EXISTING CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- IO. COORDINATE THE WORK OF THE DEMOLITION DRAWINGS WITH ALL CONSTRUCTION DRAWINGS AND DOCUMENTS.
- THIS DRAWING PROVIDES A GENERAL SCOPE OF DEMOLITION, HOWEVER, IT MAY NOT LIST EVERY SINGLE ITEM NECESSARY TO COMPLETE THE DEMOLITION. THE CONTRACTOR SHALL PROVIDE ALL DEMOLITION REQUIRED TO PERFORM ALL WORK INDICATED WITHIN THE PROJECT DRAWINGS AND SPECIFICATIONS.
- 2. REMOVE AND STORE FOR REINSTALLATION ALL EXISTING FIRE EXTINGUISHERS WITHIN WORK AREAS
- REMOVE AND STORE FOR REINSTALLATION ALL EXISTING DEVICES, INCLUDING BUT NOT LIMITED TO EXIT SIGNS CONDUITS, AND SECURITY EQUIPMENT AFTER INSTALLATION OF NEW CONSTRUCTION EQUIPMENT. CONTRACTOR RESPONSIBLE TO MAINTAIN CIRCUIT CONTINUITY

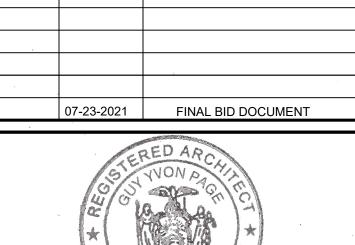
DEMOLITION KEY WORK NOTES (ALL NOTES NOT ON EVERY SHEET)

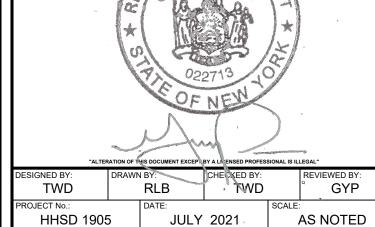
- 1 REMOVE AND DISPOSE OF EXISTING DOOR. DOOR FRAME AND HARDWARE IN ITS ENTIRETY. REMOVALS SHALL INCLUDE. BUT NOT BE LIMITED TO ALL DEVICES USED TO SECURE DOORS IN PLACE. PREPARE DOOR ROUGH OPENINGS FOR NEW WORK. REFER TO ENVIRONMENTAL REPORT FOR POSSIBLE LEAD PAINT.
- 2 REMOVE AND DISPOSE OF EXISTING DOOR INSET FLOOR HINGE POCKET. REPAIR EXISTING SUBFLOOR TO ACCEPT NEW HARDWOOD FLOORING PATCH. TOP OF NEW HARDWOOD SHALL ALIGN W/ EXISTING
- 04 REMOVE AND DISPOSE OF EXISTING ELEVATED SEATING WOOD PLATFORM IN ITS ENTIRETY; INCLUDING BUT NOT LIMITED TO EXISTING PLATFORM FLOORING, TRIM, FRAMING, AND ALL DEVISES USED TO SECURE PLATFORM IN PLACE. ASSUMED FINISHED HARDWOOD FLOORING BELOW PLATFORM. PREPARE AREA FOR NEW WORK
- 5 \parallel REMOVE AND DISPOSE OF EXISTING METAL STAIR AND RAILING TO THE STAGE IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO ALL DEVICES USED TO SECURE STAIR AND RAILING IN PLACE. METAL GUARDRAIL AROUND STAIRWELL OPENING TO REMAIN. METAI STAIR IS WELDED TO METAL GUARDRAIL AROUND STAIRWELL OPENING AND MUST BE SAW CUT TO BE REMOVED. METAL GUARDRAIL TO REMAIN SHALL BE SANDED, PRIMED, PAINTED AND HAVE A SMOOTH, SEAMLESS FINISH ONCE STAIR IS REMOVED. REFER TO ENVIRONMENTAL REPORT FOR POSSIBLE LEAD PAINT
- 06 REMOVE AND DISPOSE OF EXISTING CURVED WOOD STAIRS AND RAILINGS AT STAGE. REMOVE LOOSE PLASTER AND DISPOSE OF ALL LOOSE. BROKEN OR SPLIT FLOOR PLANKS. PREPARE AREA FOR NEW WORK
- 7 HATCHED AREA INDICATES REMOVAL AND DISPOSAL OF EXISTING HARDWOOD FLOORING, WOOD BASE BOARD, CONCEALED CONCRETE SLAB TO REMAIN. CONTRACTOR TO PREPARE EXISTING CONCRETE STRUCTURAL SLAB FOR NEW WORK. SEE SECTION
- 08 REMOVE, STORE AND PROTECT ALL EXISTING STAGE EQUIPMENT FOR REINSTALLATION. PRIOR TO REMOVAL, CONTRACTOR SHAL DOCUMENT EXISTING HEIGHTS AND LOCATIONS OF EQUIPMENT FOR REINSTALLATION. CONTRACTOR SHALL NOTIFY OWNER OF ANY EQUIPMENT THAT IS NOT IN GOOD WORKING CONDITION.
- 09 REMOVE AND DISPOSE OF EXISTING METAL LADDER AND GUARDRAIL.
-) │ REMOVE AND DISPOSE OF EXISTING HARDWOOD RAMP IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO EXISTING RAMP FLOORING, FRAMING, AND ALL DEVISES USED TO SECURE RAMP IN PLACE. ASSUMED FINISHED HARDWOOD FLOORING BELOW RAMP. REMOVE AND DISPOSE OF ALL LOOSE, BROKEN OR SPLIT HARDWOOD FLOOR PLANKS. PREPARE AREA FOR NEW WORK
- 11 REMOVE AND DISPOSE OF EXISTING CARPET RUNNERS
- 12 REMOVE ALL EXISTING WALL AND CEILING MOUNTED LIGHTING AND AV EQUIPMENT. DISPOSE OF GENERAL LIGHTING AND TURN ALL AV EQUIPMENT AND STAGE LIGHTING OVER TO THE DISTRICT
- 13 REMOVE AND DISPOSE OF EXISTING RADIATOR COVERS. ASBESTOS IS PRESENT IN THESE LOCATIONS. SEE 'H" DRAWINGS AND ENVIRONMENTAL REPORT IN THE SPECIFICATIONS FOR ADDITIONAL INFORMATION. PREPARE RADIATOR CAVITY TO RECEIVE NEW HEAT SHIELD / REFLECTOR AND METAL COVER. SEE SECTION DETAIL 6/AA 501.00. COORDINATE WITH CONTRACT 'H' ON THE REMOVAL AND REGISTRATION OF EXISTING FINTUBE RADIATORS.
- 14 REMOVE AND DISPOSE OF ALL LOOSE 1"+/- PLASTER AND DAMAGED/ FLAKING FINISH SKIM COAT / PAINT ON WALLS AND CEILINGS. AREAS AROUND CRACKS IN PLASTER TO BE REMOVED, PREPARE SUBSTRATE FOR NEW PLASTER PATCH. REMOVE AREAS OF PREVIOUS UNEVEN PATCH WORK AS REQUIRED TO PROVIDE A SMOOTH PLASTER FINISH. SEE INTERIOR ELEVATIONS FOR
- 15 REMOVE AND DISPOSE OF EXISTING WALL TILE AND SETTING BED. REMOVE ALL LOOSE PLASTER AND PREPARE WALLS FOR NEW PLASTER PATCHING
- BOARD PATCH SPANS ACROSS FRAMING OR SOUND STRUCTURAL SUBSTRATE. PREPARE SUBSTRATE FOR NEW GYPSUM BOARD OR GYPSUM BOARD PATCHING. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
- 17 │ CONTRACTOR 'G' TO DEMO WALL AS REQUIRED FOR ELEVATOR MANUFACTURER TO REMOVE THE EXISTING ELEVATOR DOOR AND ALL RELATED DOOR OPERATING EQUIPMENT. CONTRACTOR 'G' SHALL MODIFY THE EXISTING MASONRY OPENING @ ELEVATOR SHAFT TO SET THE ELEVATOR DOOR SADDLE LEVEL W/ EXISTING HARDWOOD FLOOR (-4"+/- FROM CURRENT ELEVATION). SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION. CONTRACTOR 'G' TO COORDINATE WORK W/ ELEVATOR MANUFACTURER
- 18 CONTRACTOR TO DEMO GYPSUM BOARD / METAL STUD WALL IN ITS ENTIRETY. (9'-10 1/2" TALL) REMOVE AND DISPOSE OF ALL LOOSE 1"+/- PLASTER WALLS AND CEILINGS WHERE WALL CONNECTIONS WERE MADE. TO CEILING, REMOVE AND DISPOSE OF ALL LOOSE. BROKEN OR SPLIT HARDWOOD FLOOR PLANKS WHERE WALL CONNECTION WAS MADE. TO FLOOR, PREPARE AREA FOR
- 19 SAW CUT ACCESS HOLE IN 1" PLASTER CEILING OVER METAL LATHE OVER METAL FRAMING TO BUILD PROJECTOR ALCOVE. SEE DRAWING 4/AA 200 FOR ADDITIONAL INFORMATION
- 20 REMOVE METAL PANEL AND STEEL CABLE HANGING FROM CEILING. PREPARE AREA FOR PLASTER PATCH / REPAIR
- 21 EXISTING WALL MOUNTED ELECTRICAL PANELS AND EQUIPMENT TO REMAIN.
- 22 REMOVE AND DISPOSE OF EXISTING GUARDRAIL IN ITS ENTIRETY. REMOVALS SHALL INCLUDE, BUT NOT BE LIMITED TO ALL DEVICES USED TO SECURE GUARDRAIL IN PLACE. PATCH HOLES LEFT IN CONCRETE FLOOR FROM ANCHORS
- 23 EXISTING EXPOSED CONCRETE DECK TO REMAIN
- REMOVE EXISTING WINDOW AND RETURN TO DISTRICT. WINDOW SHALL BE REMOVED IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO WINDOW FRAME, TRIM AND ALL DEVICES USED TO SECURE WINDOW IN PLACE. PREPARE ROUGH OPENING FOR NEW CMU INFILL AND 1" PLASTER PATCH. SEE INTERIOR ELEVATIONS ON SHEET AA 200 FOR ADDITIONAL INFORMATION
- 25 HATCHED AREA INDICATES REMOVAL AND DISPOSAL OF EXISTING HARDWOOD FINISH FLOOR IN ITS ENTIRETY TO THE EXISTING CONCRETE DECKING, INCLUDING BUT NOT LIMITED TO HARDWOOD FLOORING, SUBFLOOR, WOOD SLEEPERS AND MEMBRANES. PREPARE EXISTING CONCRETE SLAB FOR NEW WOOD-FRAMED PLATFORMS. SEE 'S' DRAWINGS FOR ADDITIONAL INFORMATION.
- 26 REMOVE AND DISPOSE OF ACOUSTICAL CEILING PANELS INCLUDING BUT NOT LIMITED TO ALL DEVICES USED TO SECURE ACOUSTICAL CEILING PANELS IN PLACE.



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MARK	DATE	DESCRIPTION





Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

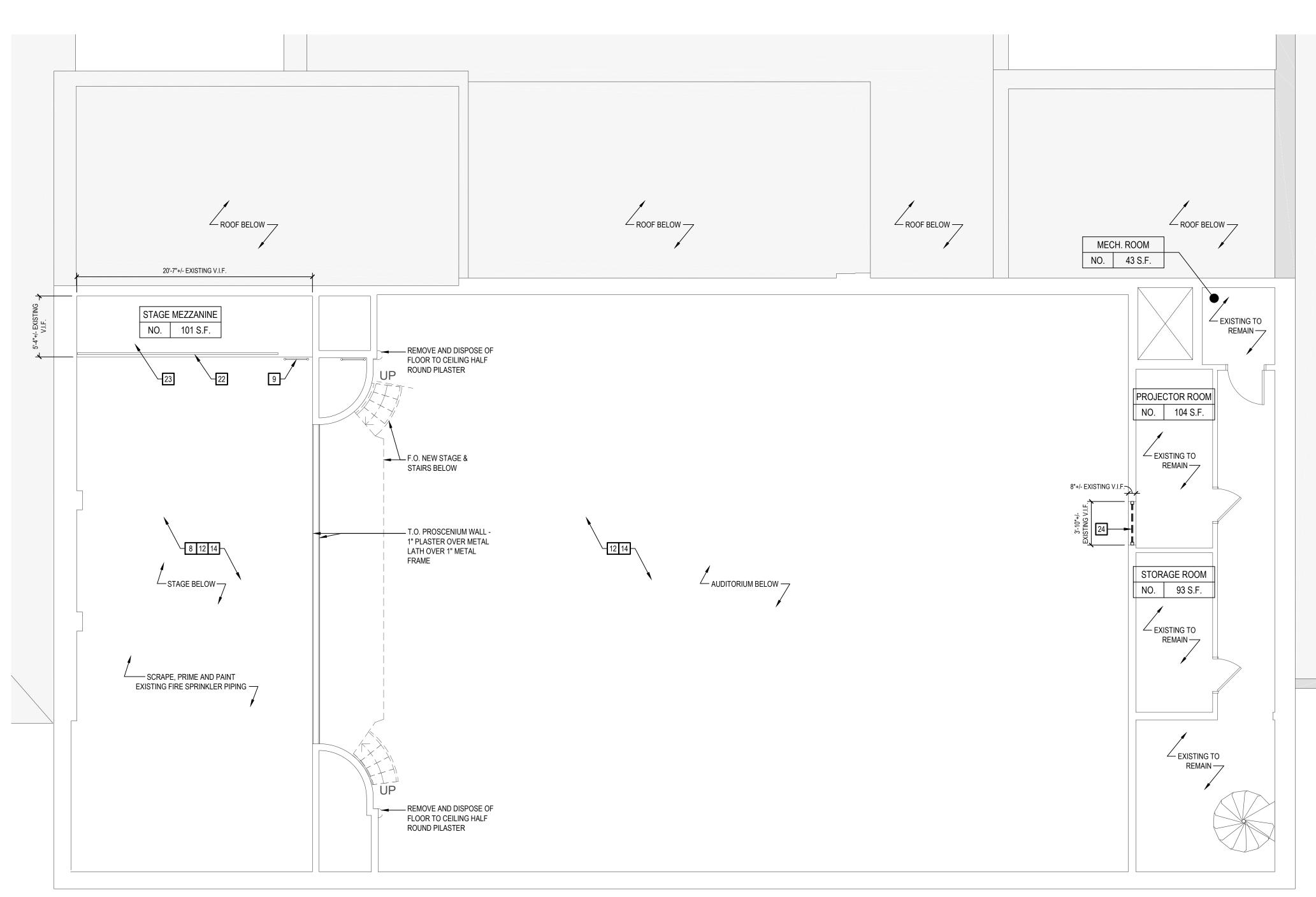
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CONTRACT G GENERAL CONSTRUCTION

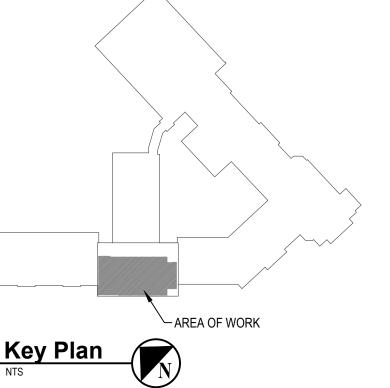
FINAL BID SET

AUDITORIUM DEMOLITION PLAN

ADA 100.00







DEMOLITION LEGEND ROOM NUMBER DESIGNATION TAG ONSTRUCTION TO REMAIN INDICATES EXISTING CONSTRUCTION TO REMAIN INDICATES EXISTING DOORS AND FRAME

KEYED NOTE INDICATOR

TO BE REMOVED

ASBESTOS ABATEMENT NOTES

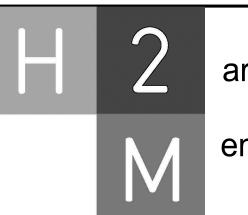
- ALL ASBESTOS ABATEMENT WORK SHALL CONFORM TO ALL APPLICABLE CODE REQUIREMENTS ALONG WITH SPECIFICATION SECTION 028000 AND INDUSTRIAL CODE RULE 56. REFER TO 'H' DRAWINGS AND ENVIRONMENTAL REPORT LOCATED IN APPENDIX 'A'.
- ALL MATERIALS ASSOCIATED WITH THIS PROJECT HAVE BEEN TESTED FOR THE PRESENCE OF ASBESTOS AND LEAD. LOCATIONS HAVE BEEN IDENTIFIED IN SPECIFICATION 028200 AND THE REPORT IS LOCATED IN APPENDIX 'A'.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM PERSONAL AIR MONITORING ON ITS EMPLOYEES IN ACCORDANCE WITH OSHA REGULATIONS.
- 4. THIRD PARTY PROJECT MONITORING AND AIR SAMPLING SHALL BE CONDUCTED BY A CONSULTANT FIRM HIRED DIRECTLY BY THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO FILE FOR ALL PERMITS AND NOTIFY ALL REGULATORY AGENCIES AS REQUIRED FOR THE WORK AND PAY ALL FEES ASSOCIATED WITH SUCH.
- UPON COMPLETION OF THE DEMOLITION WORK, THE CONTRACTOR SHALL SUBMIT COPIES OF ALL WASTE MANIFEST AND LANDFILL RECEIPTS TO THE ARCHITECT AS PART OF THE REQUIRED CLOSEOUT DOCUMENTS.
- ALL OPENINGS AND PENETRATIONS INCLUDING BUT NOT LIMITED TO WINDOWS, DOORS, DUCTS, LOUVERS AND GRILLES WITHIN AREAS OF ABATEMENT SHALL BE COVERED WITH A MINIMUM OF TWO (2) LAYERS OF 6 MIL PLASTIC.
- 3. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING HVAC EQUIPMENT AND ROOF VENTS.

GENERAL DEMOLITION NOTES

- 1. DEMOLITION WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL AND NEW YORK STATE BUILDING AND LIFE SAFETY REGULATIONS.
- 2. THE CONTRACTOR SHALL PROTECT ALL PORTIONS OF THE EXISTING BUILDING WHERE NEW WORK IS TO BE COMPLETED FROM DUST, WEATHER INCLEMENCY AND FREEZING. PROVIDE DUST FREE BARRIER PARTITIONS DURING DEMOLITION TO PREVENT DEBRIS FROM ENTERING NON-WORK AREAS. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR BUILDING CONTENTS.
- 3. THE CONTRACTOR ACCESS SHALL BE AS CALLED OUT ON SHEET G000.00. THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING FINISHES SCHEDULED TO REMAIN ALONG THE ACCESS ROUTE AND ADJOINING SURFACES OUTSIDE THE CONTRACT AREA OR SCOPE OF WORK FROM DAMAGE DURING THE PROJECT DURATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE EXISTING CONDITIONS AND/OR FINISHES DAMAGED DURING CONSTRUCTION INCLUDING PATCHING AND PAINTING AS REQUIRED AND DEEMED NECESSARY BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS AND UNWANTED MATERIAL OFF SITE IN ACCORDANCE WITH APPLICABLE FEDERAL AND NEW YORK STATE BUILDING AND LIFE SAFETY REGULATIONS.
- THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ADJOINING SURFACES AND FINISHES DURING DEMOLITION. THE CONTRACTOR SHALL PATCH AND REPAIR ALL ADJACENT SURFACES DAMAGED DURING DEMOLITION. CONTRACTOR SHALL MATCH ALL ADJACENT FINISHES.
- 6. OVER-DEMOLITION SHALL BE ALLOWED PROVIDED THAT ALL SURFACES SHALL BE REBUILT TO MATCH MATERIALS, STRUCTURAL INTEGRITY AND APPEARANCE OF THOSE WHICH WERE REMOVED IN CONFORMANCE WITH CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER.
- 7. REMOVE ALL ITEMS THAT WILL BE ABANDONED AS A RESULT OF THE WORK BEING PERFORMED.
- 8. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND QUANTITIES OF ALL ITEMS PRIOR TO BID.
- THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE PARKING LOT PAVING, CONCRETE SIDEWALKS, LANDSCAPING, GRASS AREAS AND EXTERIOR FINISHES. ANY DAMAGED AREAS SHALL BE RESTORED TO EXISTING CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 10. COORDINATE THE WORK OF THE DEMOLITION DRAWINGS WITH ALL CONSTRUCTION DRAWINGS AND DOCUMENTS.
- 11. THIS DRAWING PROVIDES A GENERAL SCOPE OF DEMOLITION, HOWEVER, IT MAY NOT LIST EVERY SINGLE ITEM NECESSARY TO COMPLETE THE DEMOLITION. THE CONTRACTOR SHALL PROVIDE ALL DEMOLITION REQUIRED TO PERFORM ALL WORK INDICATED WITHIN THE PROJECT DRAWINGS AND SPECIFICATIONS.
- 12. REMOVE AND STORE FOR REINSTALLATION ALL EXISTING FIRE EXTINGUISHERS WITHIN WORK AREAS.
- 13. REMOVE AND STORE FOR REINSTALLATION ALL EXISTING DEVICES, INCLUDING BUT NOT LIMITED TO EXIT SIGNS CONDUITS, AND SECURITY EQUIPMENT AFTER INSTALLATION OF NEW CONSTRUCTION EQUIPMENT. CONTRACTOR RESPONSIBLE TO MAINTAIN CIRCUIT CONTINUITY

DEMOLITION KEY WORK NOTES (ALL NOTES NOT ON EVERY SHEET)

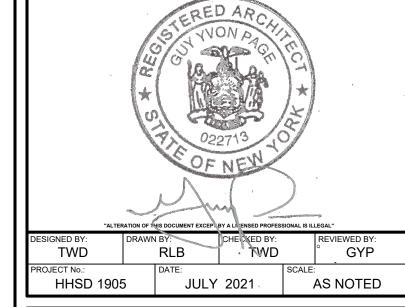
- REMOVE AND DISPOSE OF EXISTING DOOR, DOOR FRAME AND HARDWARE IN ITS ENTIRETY. REMOVALS SHALL INCLUDE, BUT NOT BE LIMITED TO ALL DEVICES USED TO SECURE DOORS IN PLACE. PREPARE DOOR ROUGH OPENINGS FOR NEW WORK. REFER TO ENVIRONMENTAL REPORT FOR POSSIBLE LEAD PAINT.
- REMOVE AND DISPOSE OF EXISTING DOOR INSET FLOOR HINGE POCKET. REPAIR EXISTING SUBFLOOR TO ACCEPT NEW HARDWOOD FLOORING PATCH. TOP OF NEW HARDWOOD SHALL ALIGN W/ EXISTING
- 03 NOT USED.
- REMOVE AND DISPOSE OF EXISTING ELEVATED SEATING WOOD PLATFORM IN ITS ENTIRETY; INCLUDING BUT NOT LIMITED TO EXISTING PLATFORM FLOORING, TRIM, FRAMING, AND ALL DEVISES USED TO SECURE PLATFORM IN PLACE. ASSUMED FINISHED HARDWOOD FLOORING BELOW PLATFORM. PREPARE AREA FOR NEW WORK
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- REMOVE AND DISPOSE OF ALL LOOSE 1"+/- PLASTER AND DAMAGED/ FLAKING FINISH SKIM COAT / PAINT ON WALLS AND CEILINGS. AREAS AROUND CRACKS IN PLASTER TO BE REMOVED, PREPARE SUBSTRATE FOR NEW PLASTER PATCH. REMOVE AREAS OF PREVIOUS UNEVEN PATCH WORK AS REQUIRED TO PROVIDE A SMOOTH PLASTER FINISH. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
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- 19 SAW CUT ACCESS HOLE IN 1" PLASTER CEILING OVER METAL LATHE OVER METAL FRAMING TO BUILD PROJECTOR ALCOVE. SEE DRAWING 4/AA 200 FOR ADDITIONAL INFORMATION
- 20 REMOVE METAL PANEL AND STEEL CABLE HANGING FROM CEILING. PREPARE AREA FOR PLASTER PATCH / REPAIR
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- 26 REMOVE AND DISPOSE OF ACOUSTICAL CEILING PANELS INCLUDING BUT NOT LIMITED TO ALL DEVICES USED TO SECURE ACOUSTICAL CEILING PANELS IN PLACE.



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MARK	DATE	DESCRIPTION

FINAL BID DOCUMENT



07-23-2021

Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

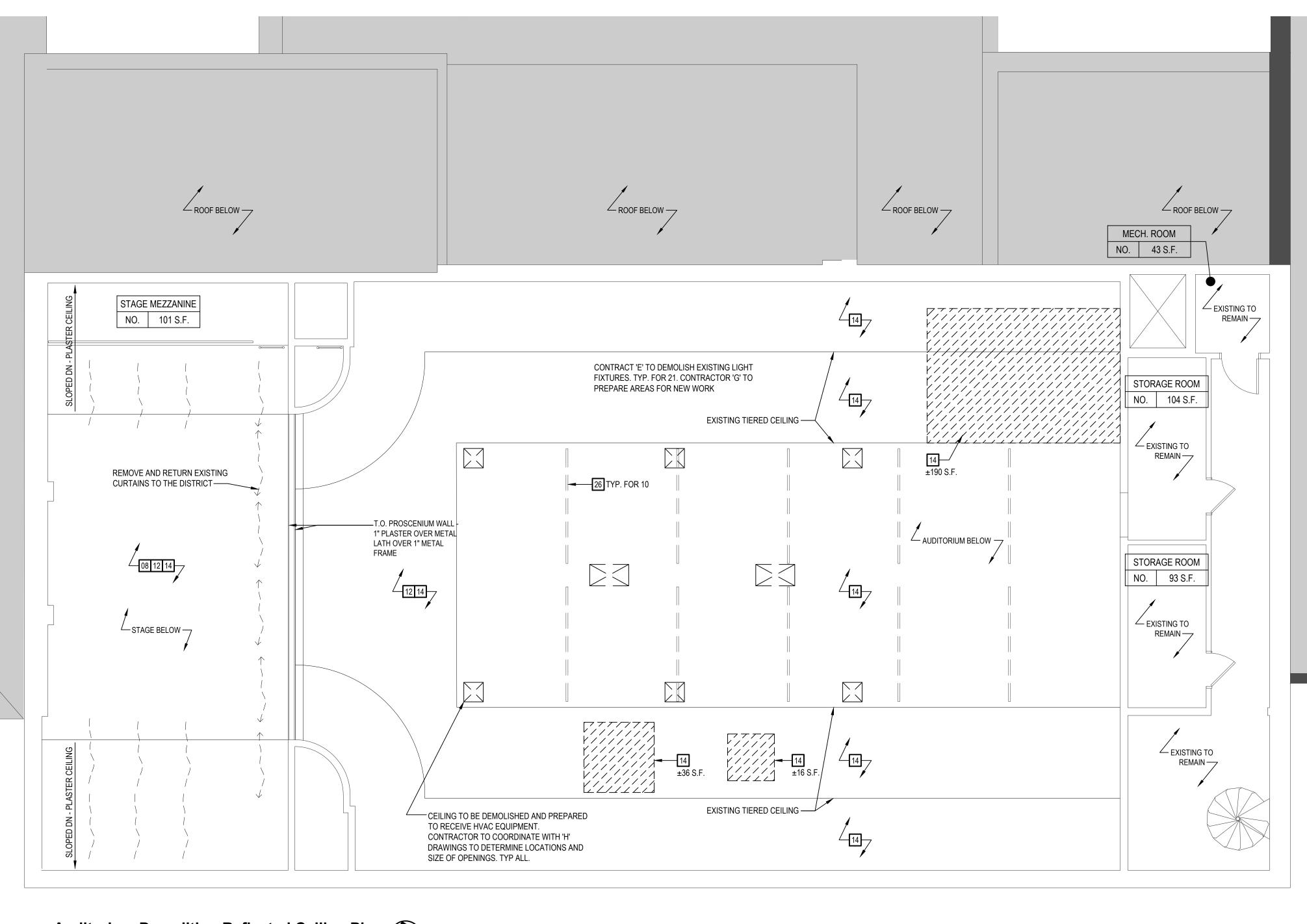
CONTRACT G
GENERAL CONSTRUCTION

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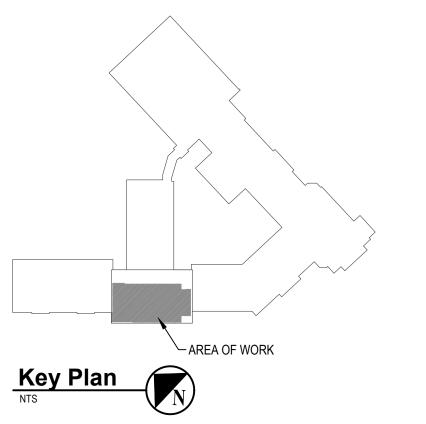
HEET TITLE

AUDITORIUM MEZZANINE DEMOLITION PLAN

ADA 101.00



1 Auditorium Demolition Reflected Ceiling Plan SCALE: 3/16"=1'-0"



DEMOLITION LEGEND ROOM NUMBER _____ INDICATES EXISTING O ± S.F. DESIGNATION TAG

<u>-</u>	DOOR TAG
#	KEYED NOTE INDICATOR

CONSTRUCTION TO REMAIN INDICATES EXISTING DOORS AND FRAME TO BE REMOVED

GENERAL DEMOLITION NOTES

- DEMOLITION WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL AND NEW YORK STATE BUILDING AND LIFE SAFETY
- THE CONTRACTOR SHALL PROTECT ALL PORTIONS OF THE EXISTING BUILDING WHERE NEW WORK IS TO BE COMPLETED FROM DUST, WEATHER INCLEMENCY AND FREEZING, PROVIDE DUST FREE BARRIER PARTITIONS DURING DEMOLITION TO PREVENT DEBRIS FROM ENTERING NON-WORK AREAS. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR BUILDING CONTENTS.
- THE CONTRACTOR ACCESS SHALL BE AS CALLED OUT ON SHEET G000.00. THE CONTRACTOR SHALL ADEQUATELY PROTECT ALL EXISTING FINISHES SCHEDULED TO REMAIN ALONG THE ACCESS ROUTE AND ADJOINING SURFACES OUTSIDE THE CONTRACT AREA OR SCOPE OF WORK FROM DAMAGE DURING THE PROJECT DURATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE EXISTING CONDITIONS AND/OR FINISHES DAMAGED DURING CONSTRUCTION INCLUDING PATCHING AND PAINTING AS REQUIRED AND DEEMED NECESSARY BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
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ACCORDANCE WITH APPLICABLE FEDERAL AND NEW YORK STATE BUILDING AND LIFE SAFETY REGULATIONS.

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DEMOLITION KEY WORK NOTES (ALL NOTES NOT ON EVERY SHEET)

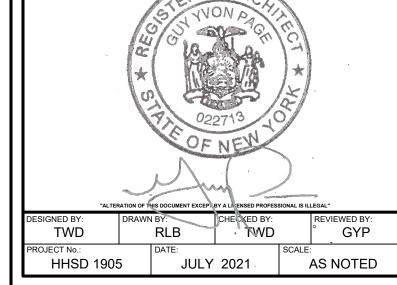
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- 19 SAW CUT ACCESS HOLE IN 1" PLASTER CEILING OVER METAL LATHE OVER METAL FRAMING TO BUILD PROJECTOR ALCOVE. SEE DRAWING 4/AA 200 FOR ADDITIONAL INFORMATION
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- REMOVE AND DISPOSE OF ACOUSTICAL CEILING PANELS INCLUDING BUT NOT LIMITED TO ALL DEVICES USED TO SECURE ACOUSTICAL CEILING PANELS IN PLACE.



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CONSULTANTS:		

MARK	DATE	DESCRIPTION
	07-23-2021	FINAL BID DOCUMENT



Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

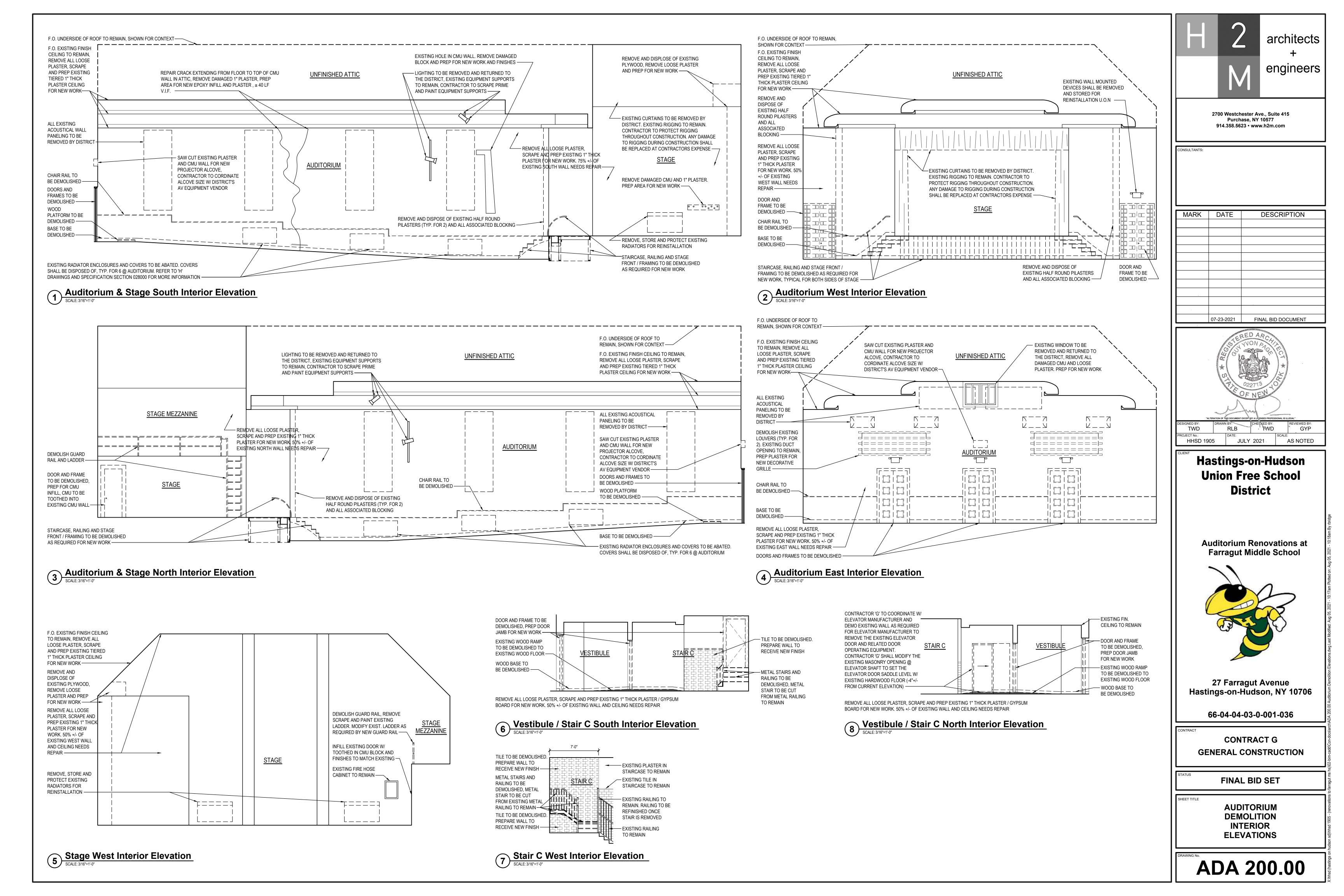
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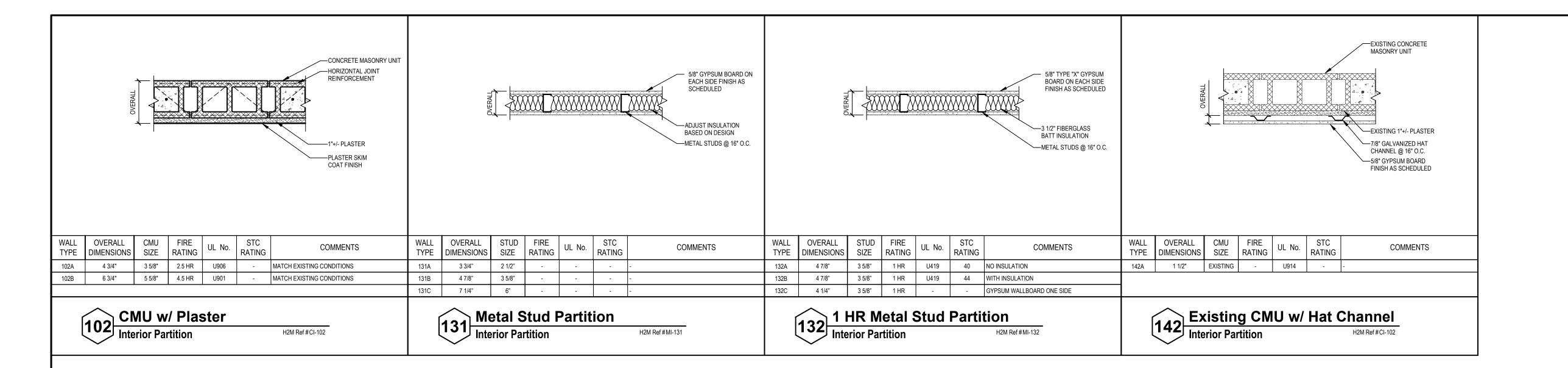
CONTRACT G GENERAL CONSTRUCTION

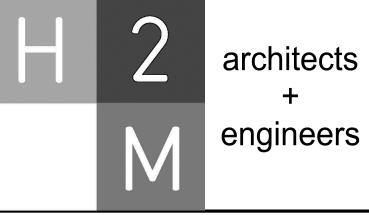
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AUDITORIUM DEMOLITION REFLECTED **CEILING PLAN**

ADA 102.00

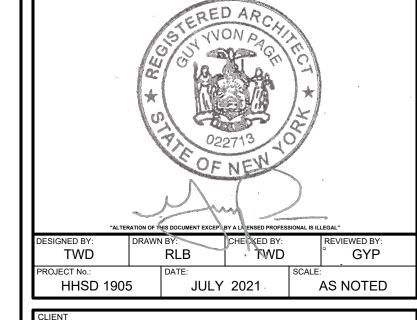






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Hastings-on-Hudson Union Free School **District**

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

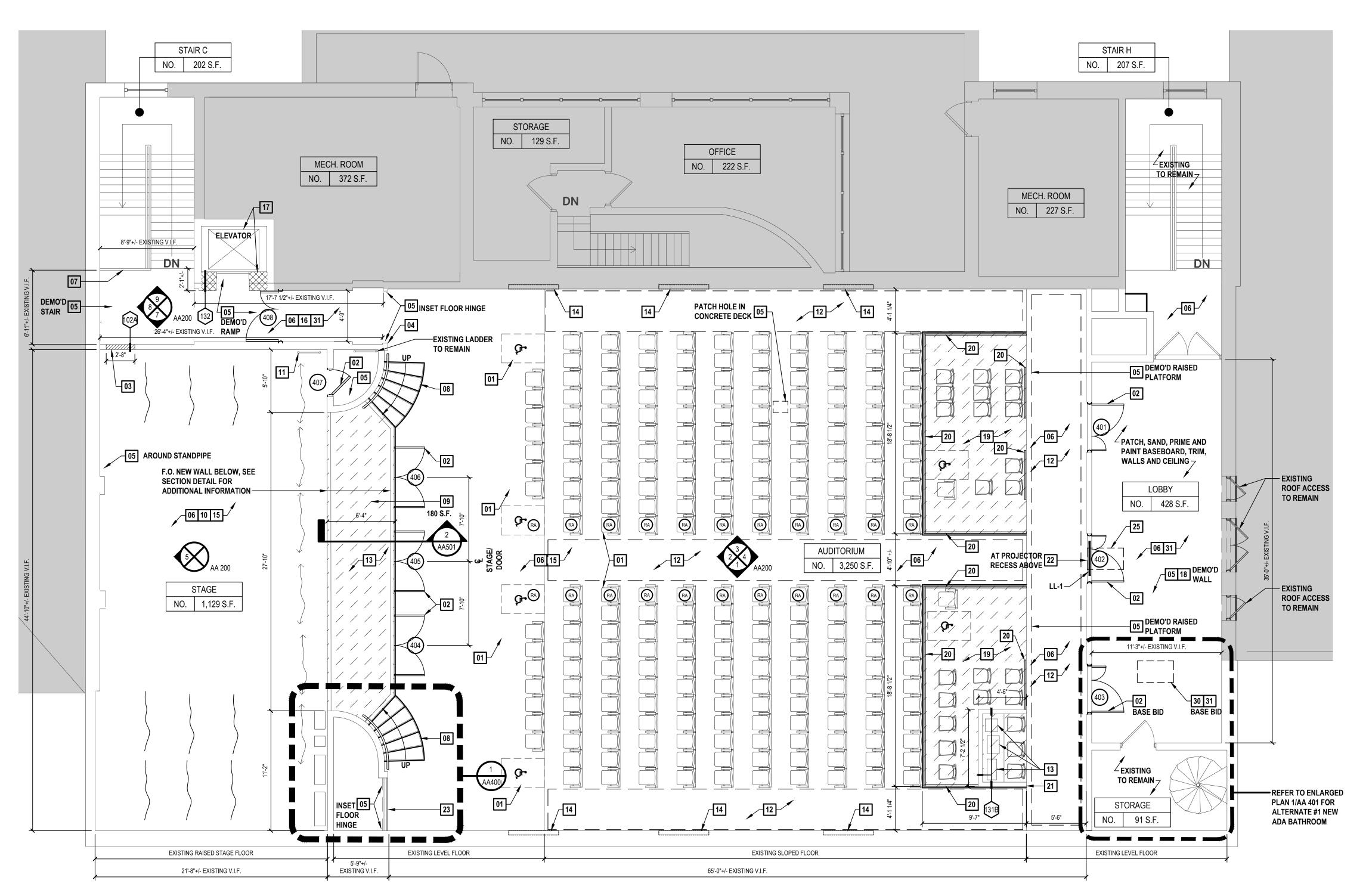
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CONTRACT G GENERAL CONSTRUCTION

FINAL BID SET

PARTITION TYPES

AA 100.00

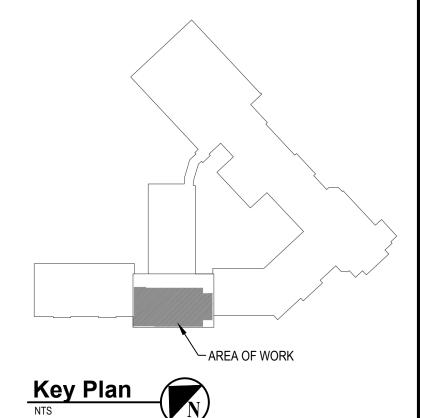




	LOOSE LINTEL SCHEDULE					
MARK	SIZE	DETAIL	COMMENTS			
LL-1	(2)L3 1/2x2 1/2x3/8 (LLBB)		SEE NOTES 1-5			
LL-2	(2)L3 1/2x3 1/2x5/16		SEE NOTES 1-5			
LL-3	L6x3 1/2x3/8 (SLBB) + L3 1/2x3 1/2x3/8 W/ PL 3/8" x 18" x M.O.		SEE NOTES 1-5			
LL-4	L6x3 1/2x3/8 (SLBB) + L3 1/2x3 1/2x3/8 W/ PL 3/8" x 22" x M.O.	annin a	SEE NOTES 1-5			

LOOSE LINTEL NOTES:

- ALL EXTERIOR LINTELS SHALL HAVE SHOP APPLIED HOT DIPPED GALVANIZED COATING, **UNLESS OTHERWISE NOTED.**
- LINTEL LENGTHS SHALL BE THE MASONRY OPENING (M.O.) PLUS 1'-4" TO ALLOW FOR 8" BEARING ON SOLID GROUTED MASONRY AT EACH END.
- WELD VERTICAL REINFORCEMENT INTERRUPTED BY MASONRY OPENINGS TO TOP OF STEEL LINTELS.
- 4. VERTICAL LEGS OF DOUBLE ANGLES SHALL BE WELDED TOGETHER.
- 5. FOR ALL LINTEL LOCATIONS REFER TO A____.



GENERAL WORK NOTES

- ALL WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING AND LIFE AND SAFETY
- BUILDING DIMENSIONS AND SQUARE FOOTAGE SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS FOR QUANTITY MATERIALS.
- ACCOMMODATE THE CONSTRUCTION TO ACCEPT ALL PIPING, CONDUITS, EQUIPMENT, PANELS, ETC., EITHER SPECIFIED OR DETAILED
- TO BE RECESSED OR CONCEALED IN MASONRY AND FURRED WALLS, AS REQUIRED BY THIS CONTRACT OR CONTRACTS 'M', 'E' AND 'P'.
- COORDINATE LOCATIONS OF RECESSED OR CONCEALED ITEMS DETAILED OR SPECIFIED WITH CONTRACTS 'M', 'E' AND 'P'.
- ALL ITEMS DETAILED OR SPECIFIED TO RUN IN OR ATTACHED TO WALLS AND CEILINGS ARE TO BE CONCEALED OR RECESSED U.N.O.
- FOR ALL DOORS DENOTED AS (XXX), SEE DRAWING AA 600 FOR ADDITIONAL INFORMATION.
- ALL NEW PARTITION WALLS SHALL BE CONSTRUCTED PER THE NOMINAL STUD PARTITION DETAILS ON DRAWING AA 100
- FOR ALL SURFACES WHERE EXISTING ITEMS AND/OR CONSTRUCTION IS REMOVED INCLUDING BUT NOT LIMITED TO EQUIPMENT, CASEWORK, TRIM, BLOCK, DEVICES, ETC.; ALL SURFACES SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING ADJACENT CONSTRUCTION AND FINISH.
- FOR ALL LOCATIONS WHERE EXISTING WOOD TRIM IS SCHEDULED TO REMAIN, ALL SURFACES SHALL BE PATCHED, SANDED, CLEANED, AND PAINTED AS SPECIFIED.
- 10. FOR ALL LOCATIONS WHERE NEW PARTITIONS ARE CONSTRUCTED PROVIDE WALL BASE TO MATCH EXISTING SIZE AND PROFILE.

KEY WORK NOTES

- 01 NEW AUDITORIUM SEATING W/ RETRACTABLE TABLET TABLES WITH (4) ADA COMPLIANT WHEELCH SPACES. DISTRICT SHALL PURCHASE SEATING. DISTRICT'S VENDOR TO PROVIDE AND INSTALL SEATING. CONTRACTOR TO COORDINATE SCHEDULE OF WORK AND INSTALLATION W/ SEATING
- 02 INSTALL NEW DOOR, DOOR JAMB AND HARDWARE. REFER TO DOOR SCHEDULE ON AA 600 FOR ADDITIONAL INFORMATION
- 03 INFILL WALL OPENING W/ MATERIALS MATCHING EXISTING WALL CONSTRUCTION. CMU BLOCK TO BE TOOTHED INTO EXISTING CMU WALL. PROVIDE SEAMLESS PATCH. PRIME AND PAINT WALL. REFER TO INTERIOR ELEVATIONS ON AA 200 FOR ADDITIONAL INFORMATION
- 04 NEW CASED OPENING, SEE INTERIOR ELEVATIONS FOR FINISHED CASED OPENING SIZE
- 05 PATCH SOLID HARDWOOD FLOOR AND STAGGER JOINTS TO PROVIDE SEAMLESS FINISH W/ SURROUNDING FLOOR
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- NEW 3/4" HARDWOOD FLOOR W/ STAIN AND 2 COATS OF POLY OVER 3/4" CDX PLYWOOD SUBFLOOR OVER EXISTING 2X P.T. SLEEPERS ON FLAT SPACED 12" O.C. OVER EXISTING CONCRETE SLAB AND NEW UNDER STAGE STORAGE SPACE FRAMING. PROVIDE NEW STORAGE SPACE SLEEPERS, SUBFLOOR, FINISH FLOOR AND FRAMING AND WOOD PANELING. SEE SECTION DETAIL 2/AA 501
- 10 REINSTALL ALL EXISTING STAGE EQUIPMENT. CONTRACTOR TO MOUNT / HANG ALL EQUIPMENT AT ORIGINALLY PLACED HEIGHTS AND LOCATIONS. PROVIDE, COORDINATE AND INSTALL ALL REQUIRED
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- 20 PROVIDE NEW GUARDRAIL AT FLAT SEATING AREA, SEE INTERIOR ELEVATION 6/AA 200
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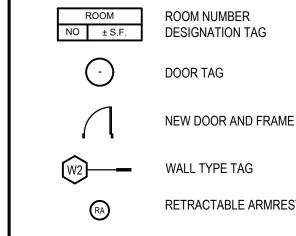
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NEW WORK LEGEND



DOOR TAG

SECTION CUT TAG

KEYED NOTE INDICATOR

INTERIOR ELEVATION TAG



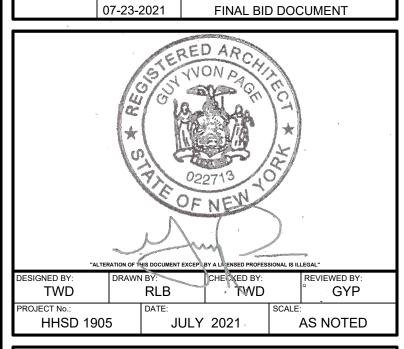
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NEW HARDWOOD FLOORING

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CONSULTANTS:		

MARK	DATE	DESCRIPTION



Hastings-on-Hudson Union Free School District

Auditorium Renovations at



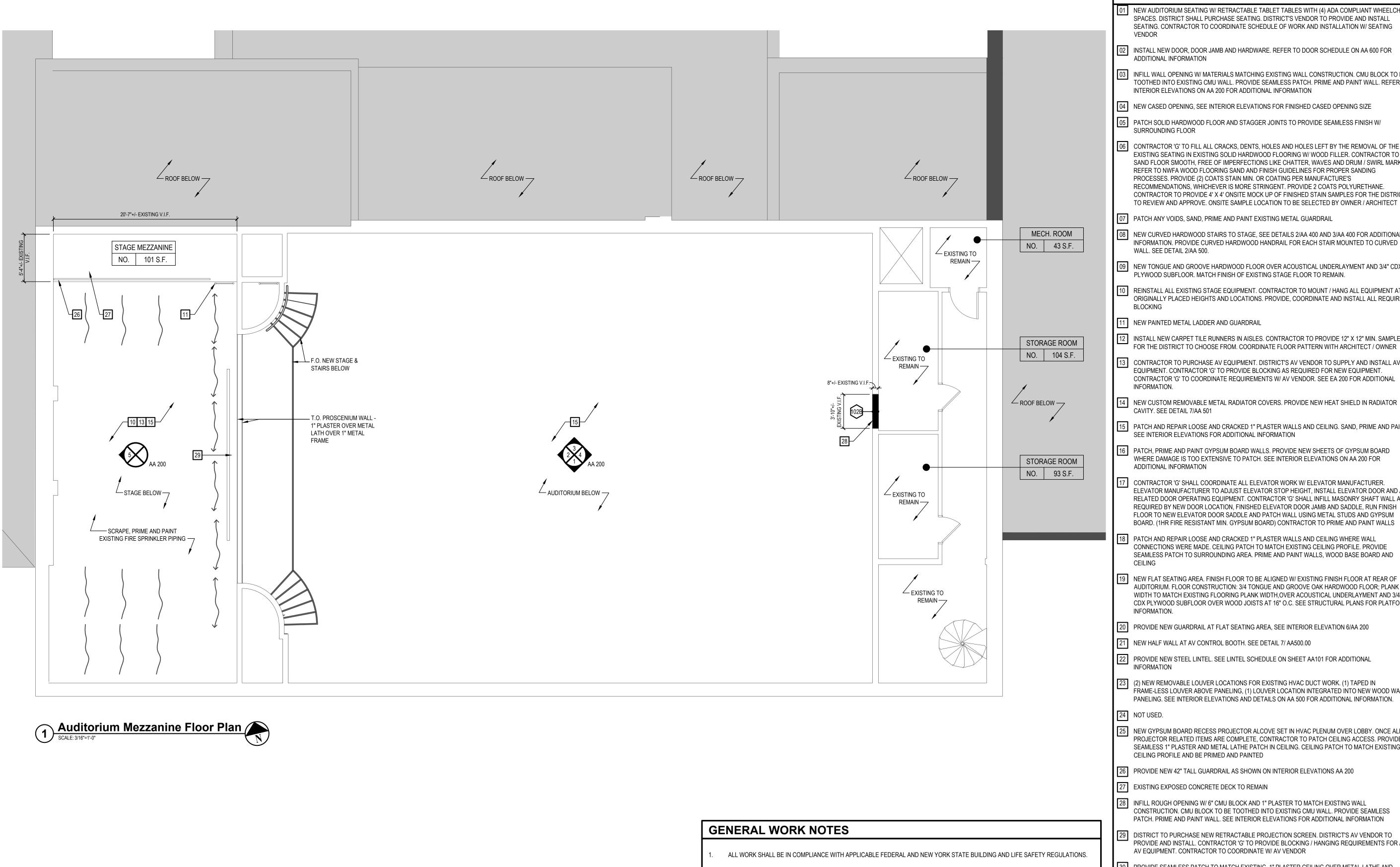
27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

CONTRACT G GENERAL CONSTRUCTION

FINAL BID SET

AUDITORIUM FLOOR PLAN



- AREA OF WORK

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NEW WORK LEGEND

ROOM NUMBER NO ± S.F. **DESIGNATION TAG** DOOR TAG NEW DOOR AND FRAME WALL TYPE TAG

RETRACTABLE ARMREST

SECTION CUT TAG

KEYED NOTE INDICATOR

WALL TO BE INFILLED EXISTING SMOKE

DETECTORS, SEE 'E' DWGS. FOR ADDITIONAL INFORMATION.

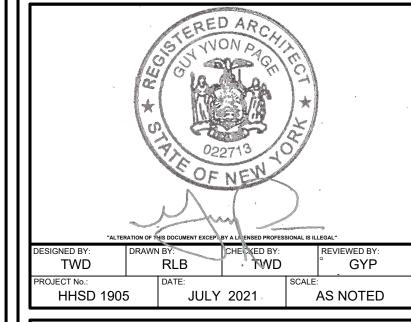
INTERIOR ELEVATION TAG

engineers

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CONSULTANTS:		

MARK	DATE	DESCRIPTION
	-	
	07-23-2021	FINAL BID DOCUMENT



Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

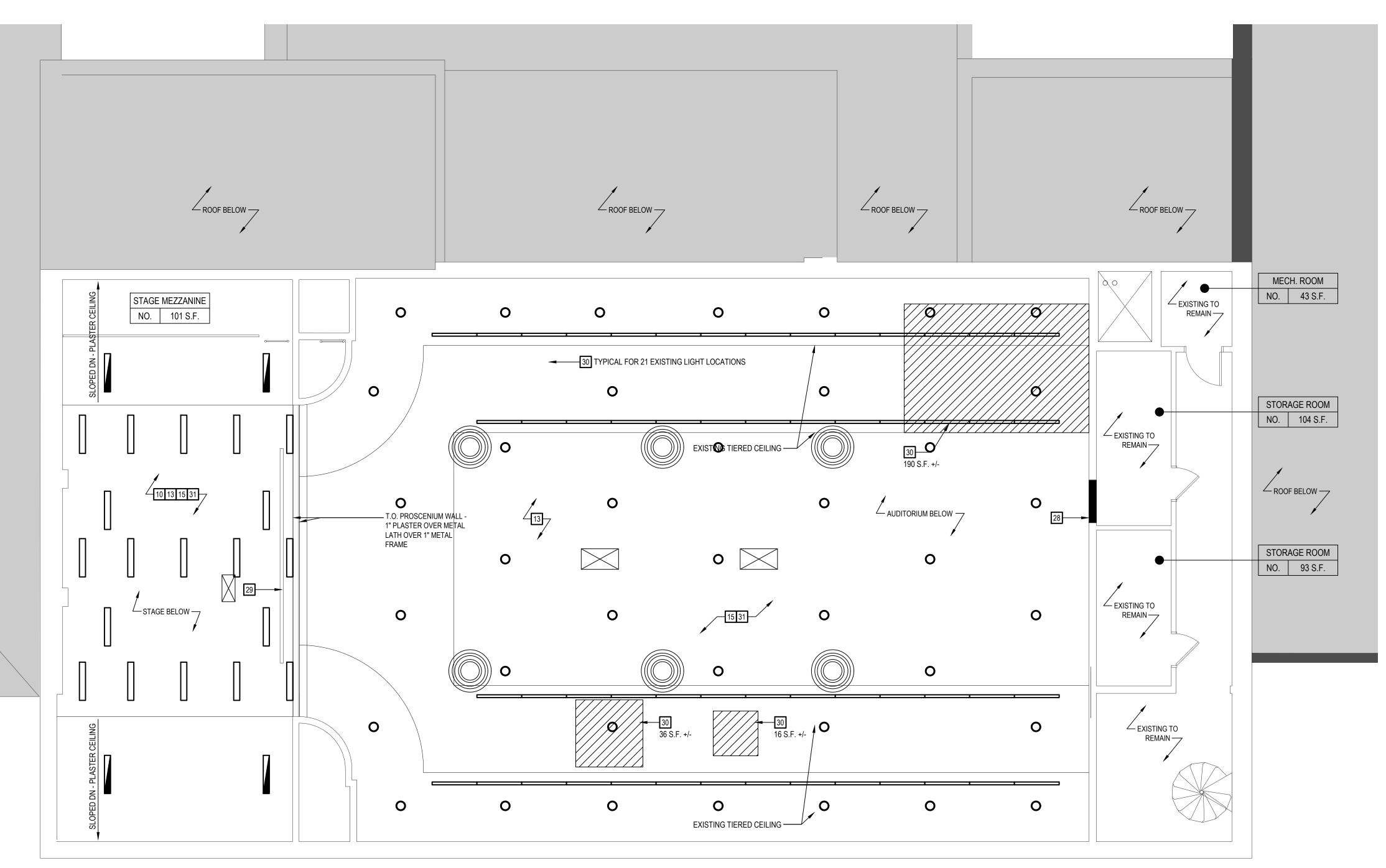
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CONTRACT G GENERAL CONSTRUCTION

FINAL BID SET

AUDITORIUM MEZZANINE FLOOR PLAN

AA 102.00



- AREA OF WORK

Auditorium Reflected Ceiling Plan
SCALE: 3/16"=1"-0"

GENERAL WORK NOTES

- ALL WORK SHALL BE IN COMPLIANCE WITH APPLICABLE FEDERAL AND NEW YORK STATE BUILDING AND LIFE SAFETY REGULATIONS.
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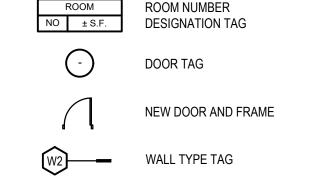
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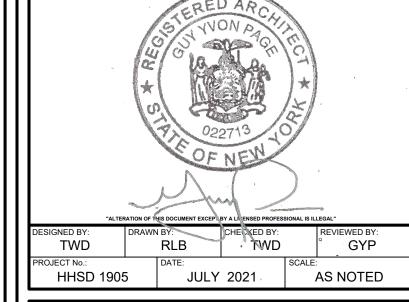
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engineers

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Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

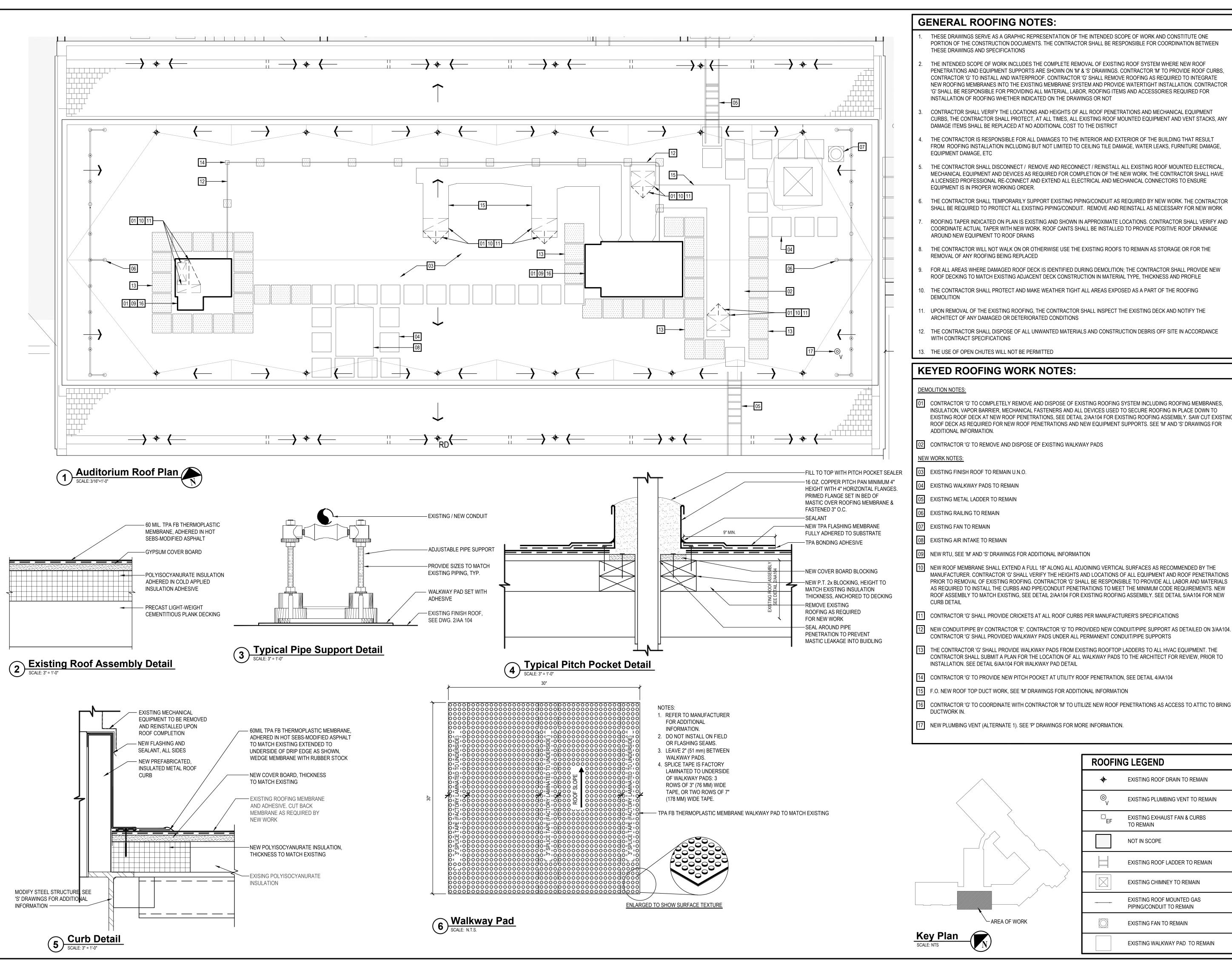
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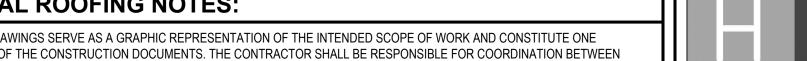
CONTRACT G GENERAL CONSTRUCTION

FINAL BID SET

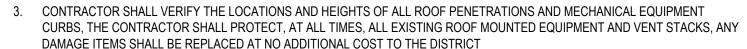
AUDITORIUM REFLECTED CEILING PLAN

AA 103.00





THE INTENDED SCOPE OF WORK INCLUDES THE COMPLETE REMOVAL OF EXISTING ROOF SYSTEM WHERE NEW ROOF PENETRATIONS AND EQUIPMENT SUPPORTS ARE SHOWN ON 'M' & 'S' DRAWINGS. CONTRACTOR 'M' TO PROVIDE ROOF CURBS. CONTRACTOR 'G' TO INSTALL AND WATERPROOF. CONTRACTOR 'G' SHALL REMOVE ROOFING AS REQUIRED TO INTEGRATE NEW ROOFING MEMBRANES INTO THE EXISTING MEMBRANE SYSTEM AND PROVIDE WATERTIGHT INSTALLATION. CONTRACTOR 'G' SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIAL, LABOR, ROOFING ITEMS AND ACCESSORIES REQUIRED FOR

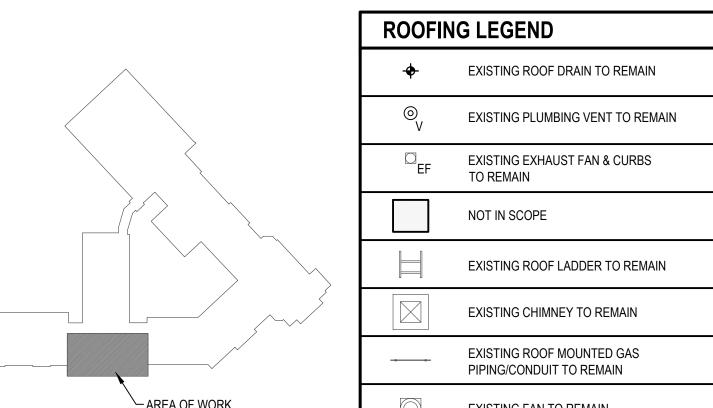


- THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES TO THE INTERIOR AND EXTERIOR OF THE BUILDING THAT RESULT FROM ROOFING INSTALLATION INCLUDING BUT NOT LIMITED TO CEILING TILE DAMAGE, WATER LEAKS, FURNITURE DAMAGE.
- THE CONTRACTOR SHALL DISCONNECT / REMOVE AND RECONNECT / REINSTALL ALL EXISTING ROOF MOUNTED ELECTRICAL, MECHANICAL EQUIPMENT AND DEVICES AS REQUIRED FOR COMPLETION OF THE NEW WORK. THE CONTRACTOR SHALL HAVE A LICENSED PROFESSIONAL RE-CONNECT AND EXTEND ALL ELECTRICAL AND MECHANICAL CONNECTORS TO ENSURE
- THE CONTRACTOR SHALL TEMPORARILY SUPPORT EXISTING PIPING/CONDUIT AS REQUIRED BY NEW WORK. THE CONTRACTOR
- COORDINATE ACTUAL TAPER WITH NEW WORK. ROOF CANTS SHALL BE INSTALLED TO PROVIDE POSITIVE ROOF DRAINAGE
- THE CONTRACTOR WILL NOT WALK ON OR OTHERWISE USE THE EXISTING ROOFS TO REMAIN AS STORAGE OR FOR THE
- FOR ALL AREAS WHERE DAMAGED ROOF DECK IS IDENTIFIED DURING DEMOLITION; THE CONTRACTOR SHALL PROVIDE NEW

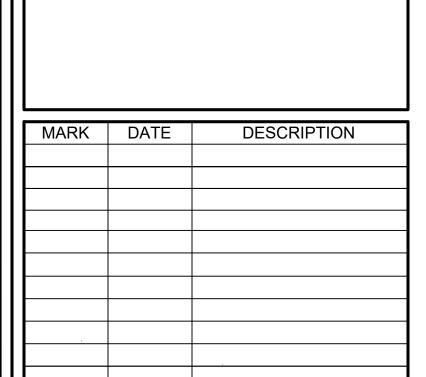
- 12. THE CONTRACTOR SHALL DISPOSE OF ALL UNWANTED MATERIALS AND CONSTRUCTION DEBRIS OFF SITE IN ACCORDANCE

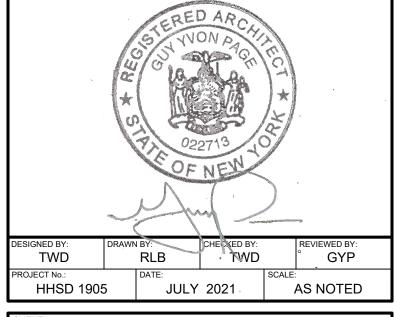
INSULATION, VAPOR BARRIER, MECHANICAL FASTENERS AND ALL DEVICES USED TO SECURE ROOFING IN PLACE DOWN TO EXISTING ROOF DECK AT NEW ROOF PENETRATIONS, SEE DETAIL 2/AA104 FOR EXISTING ROOFING ASSEMBLY. SAW CUT EXISTING ROOF DECK AS REQUIRED FOR NEW ROOF PENETRATIONS AND NEW EQUIPMENT SUPPORTS. SEE 'M' AND 'S' DRAWINGS FOR

- MANUFACTURER. CONTRACTOR 'G' SHALL VERIFY THE HEIGHTS AND LOCATIONS OF ALL EQUIPMENT AND ROOF PENETRATIONS PRIOR TO REMOVAL OF EXISTING ROOFING. CONTRACTOR 'G' SHALL BE RESPONSIBLE TO PROVIDE ALL LABOR AND MATERIALS AS REQUIRED TO INSTALL THE CURBS AND PIPE/CONDUIT PENETRATIONS TO MEET THE MINIMUM CODE REQUIREMENTS. NEW ROOF ASSEMBLY TO MATCH EXISTING. SEE DETAIL 2/AA104 FOR EXISTING ROOFING ASSEMBLY. SEE DETAIL 5/AA104 FOR NEW
- CONTRACTOR SHALL SUBMIT A PLAN FOR THE LOCATION OF ALL WALKWAY PADS TO THE ARCHITECT FOR REVIEW, PRIOR TO









FINAL BID DOCUMENT

07-23-2021

Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



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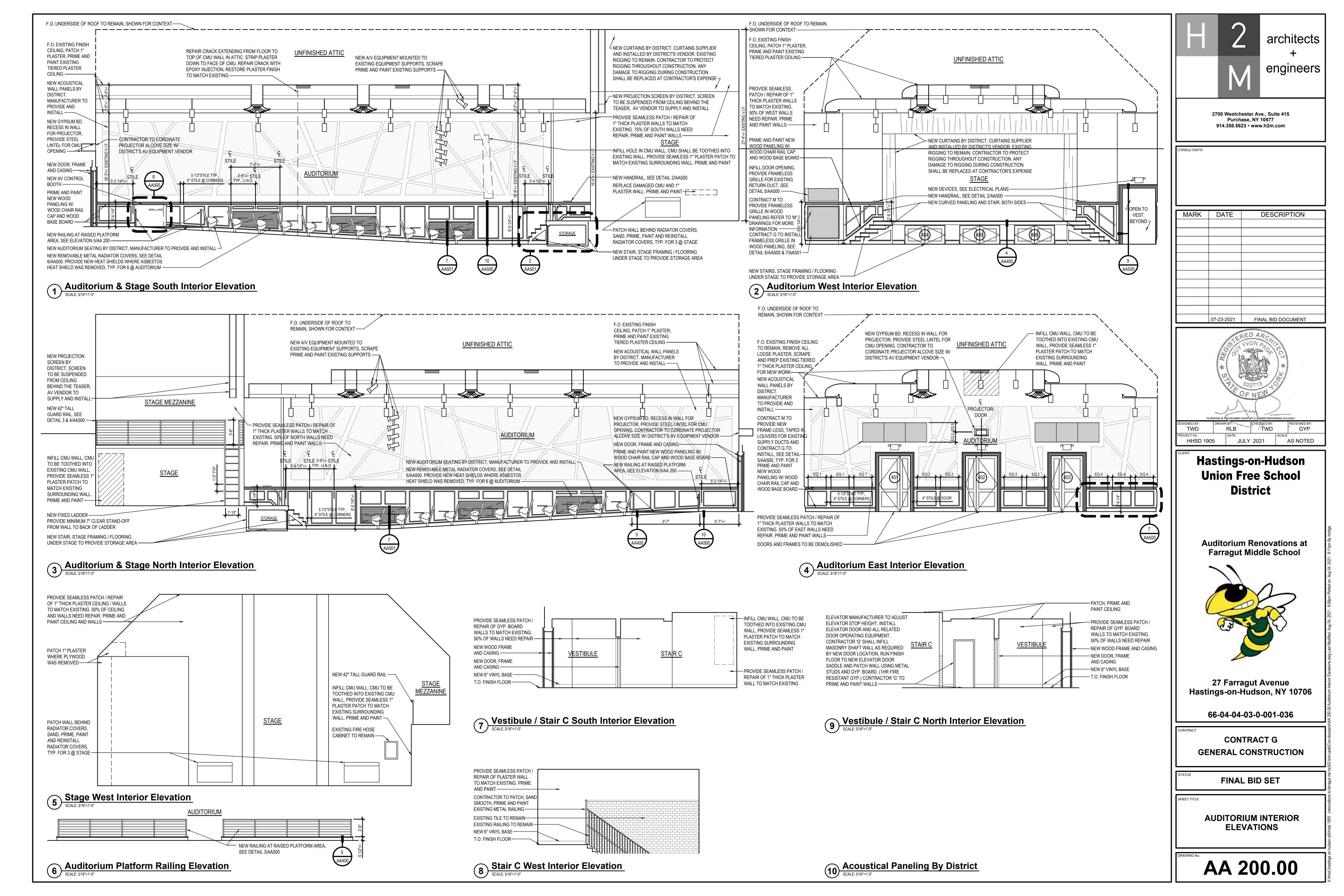
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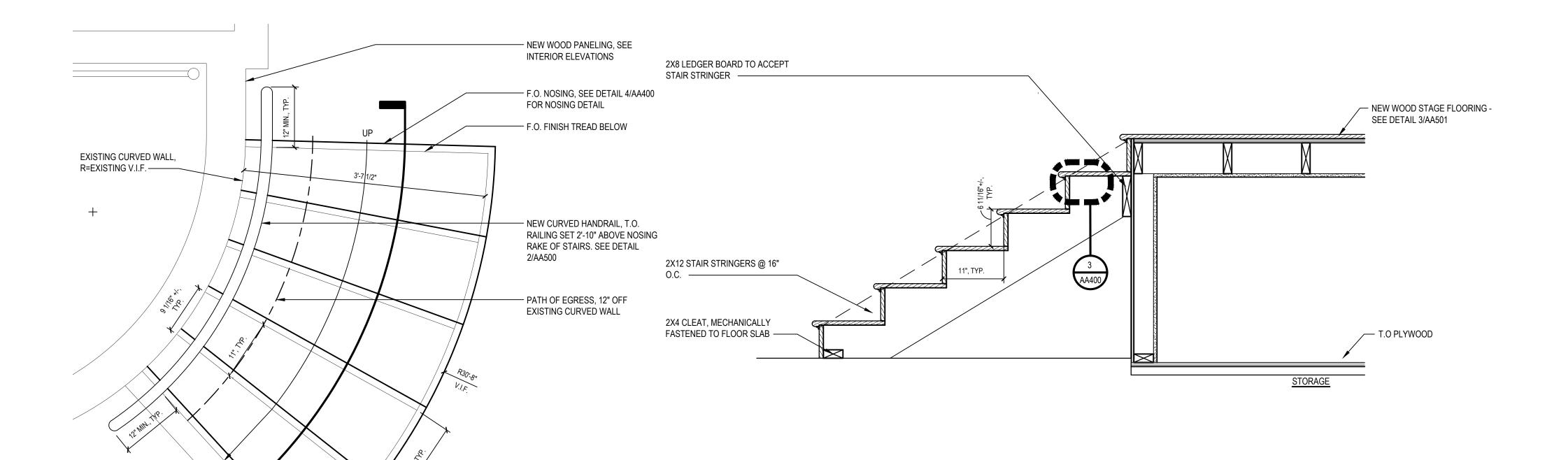
CONTRACT G GENERAL CONSTRUCTION CONTRACT M **HEATING VENTILATION AND AIR CONDITIONING**

FINAL BID SET

AUDITORIUM ROOF PLAN

AA 104.00





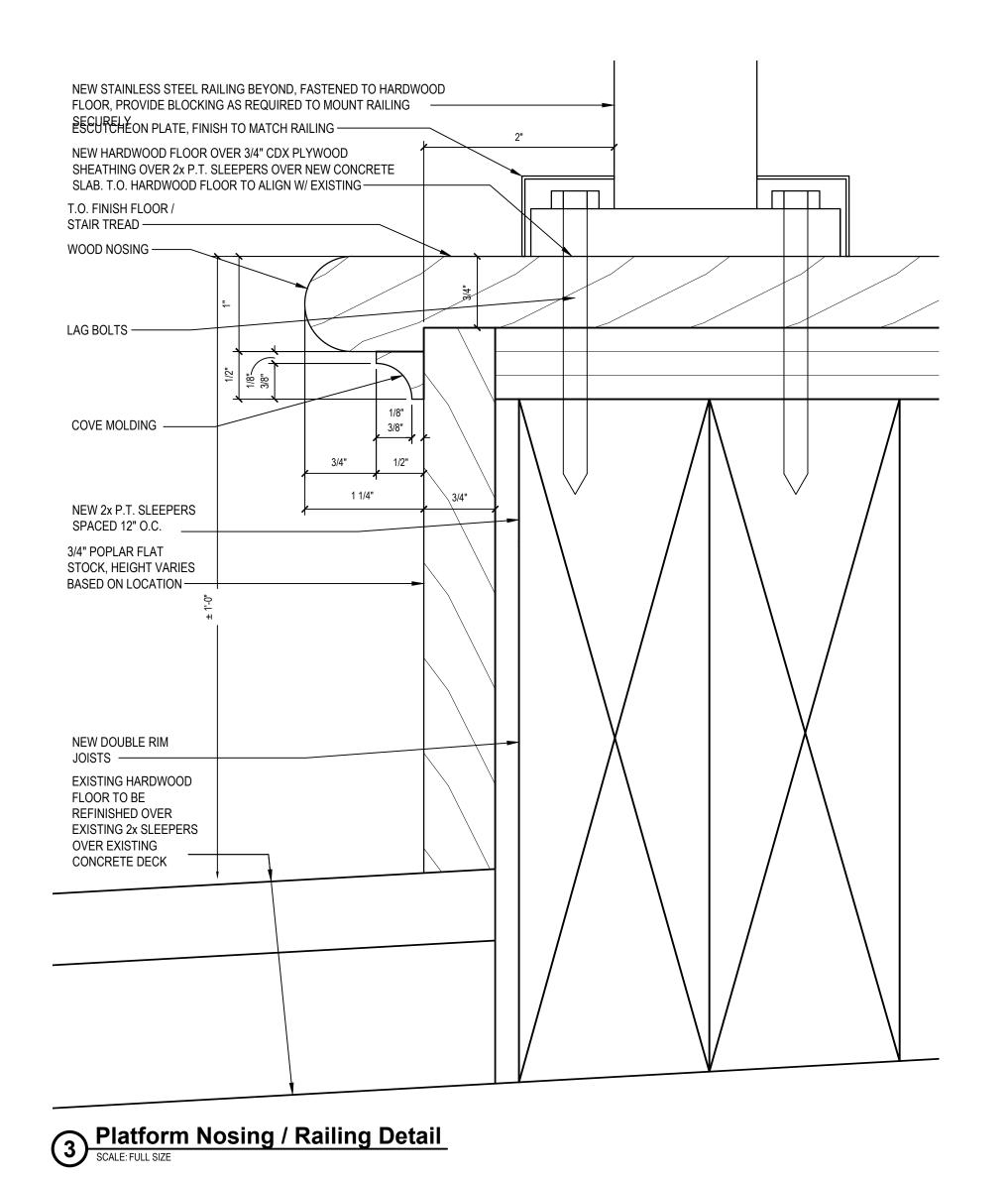
- F.O. NEW FRAMED STAGE

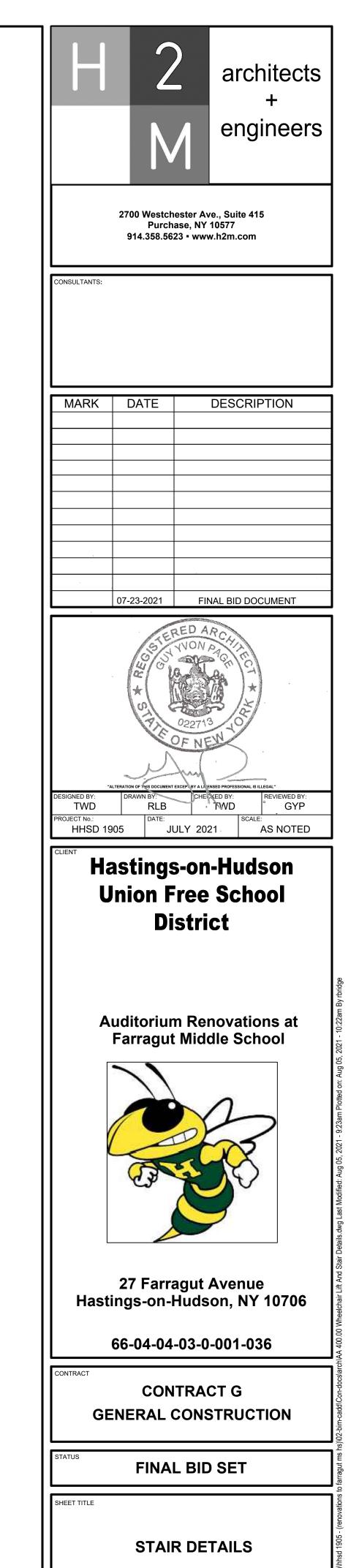
Stair Section and Wheelchair Lift Elevation

SCALE: 1"=1'-0"

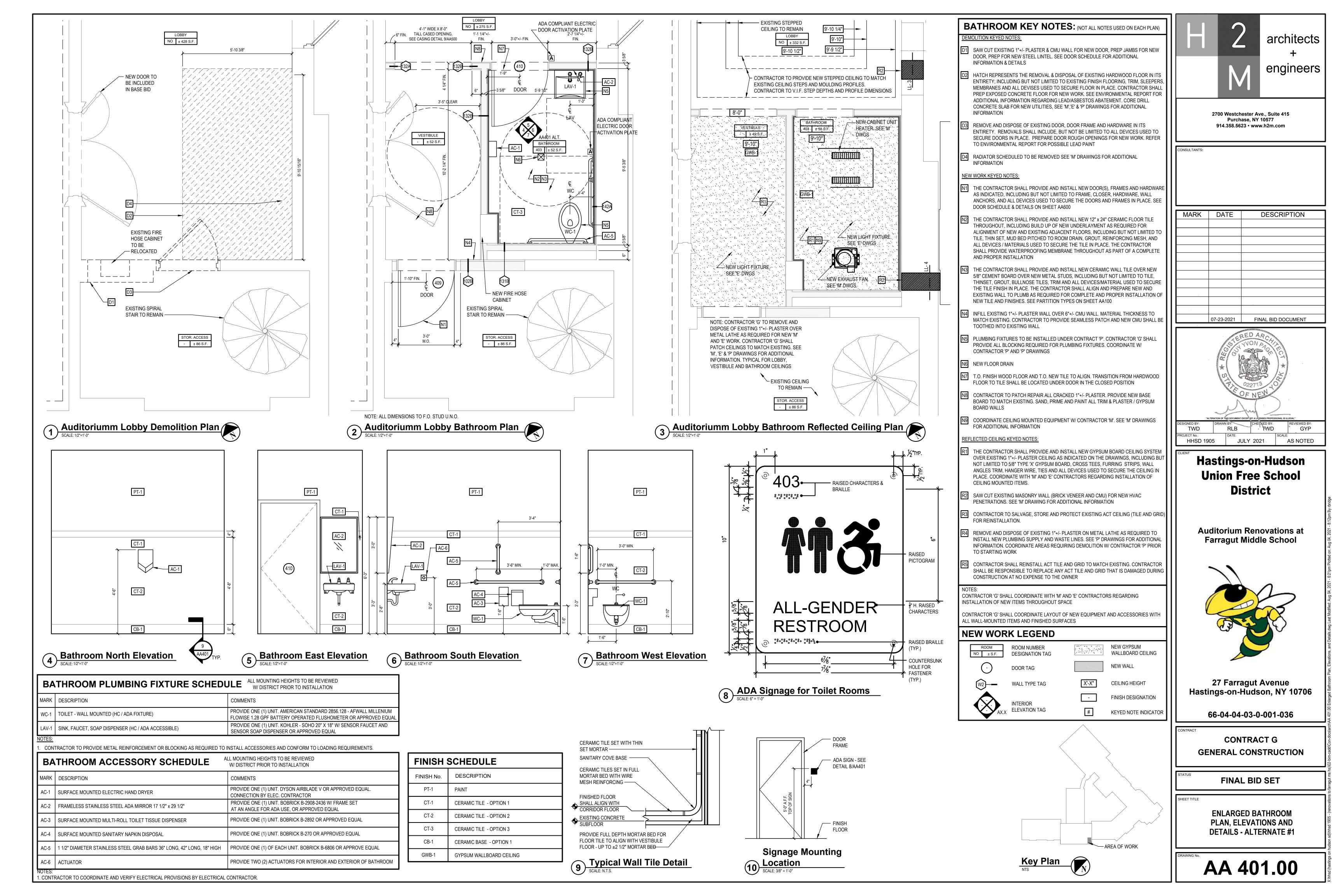
Enlarged Stair Plan

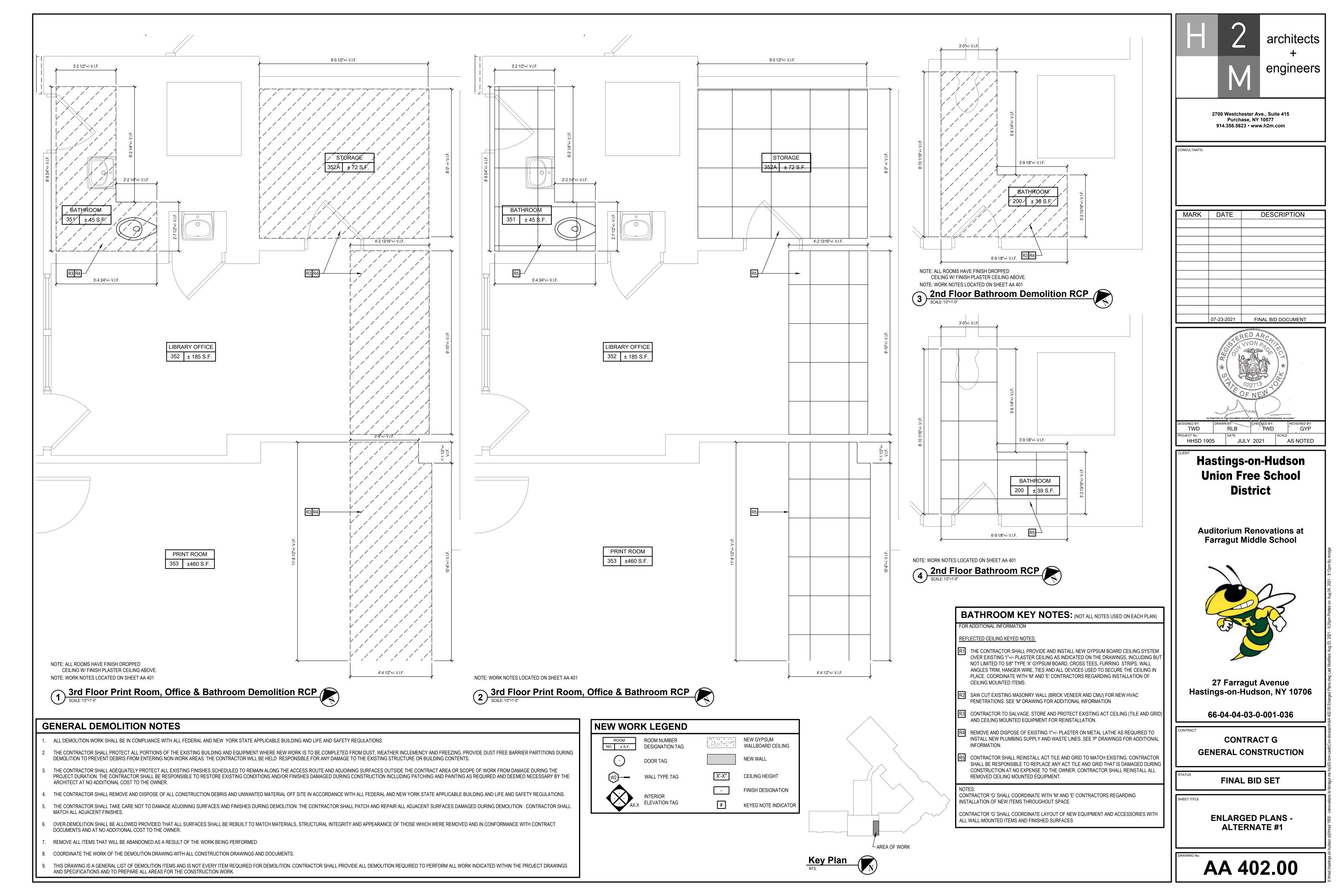
2 AA400 OPP.

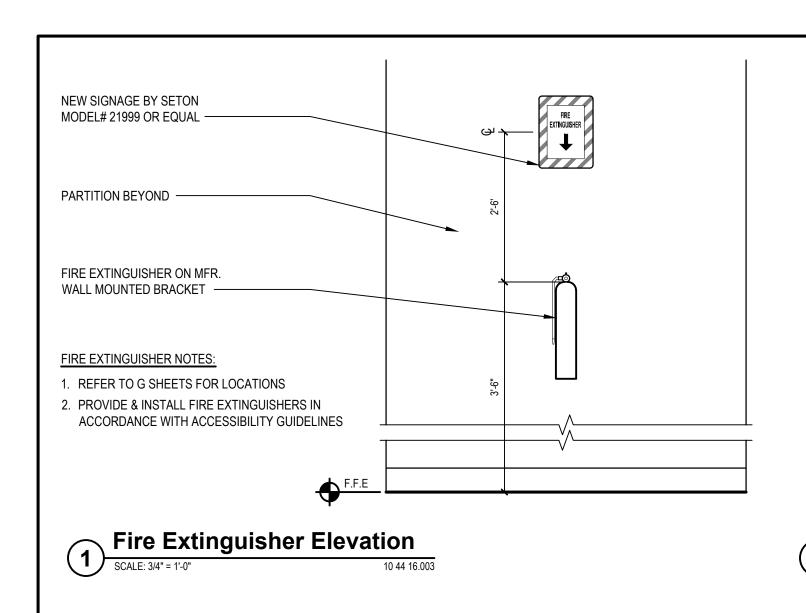


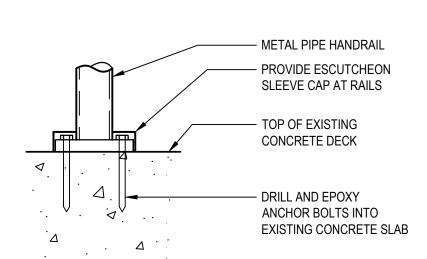


AA 400.00









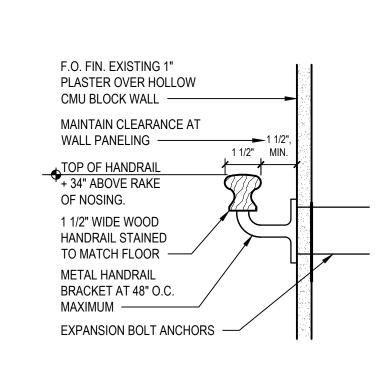
Handrail Anchor Detail at Mezzanine

SCALE: 3" = 1'-0"



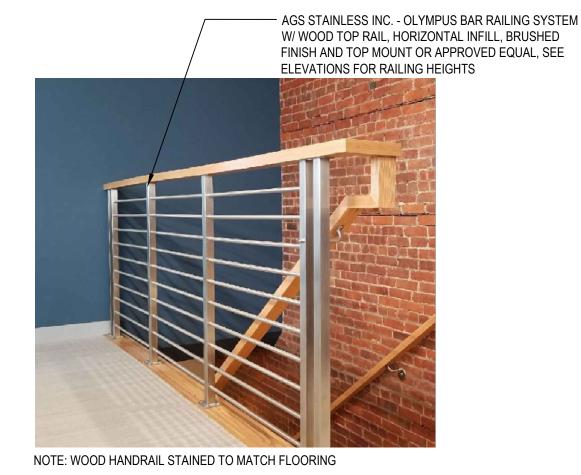
Wood Paneling Reference Photo

SCALE: N.T.S.



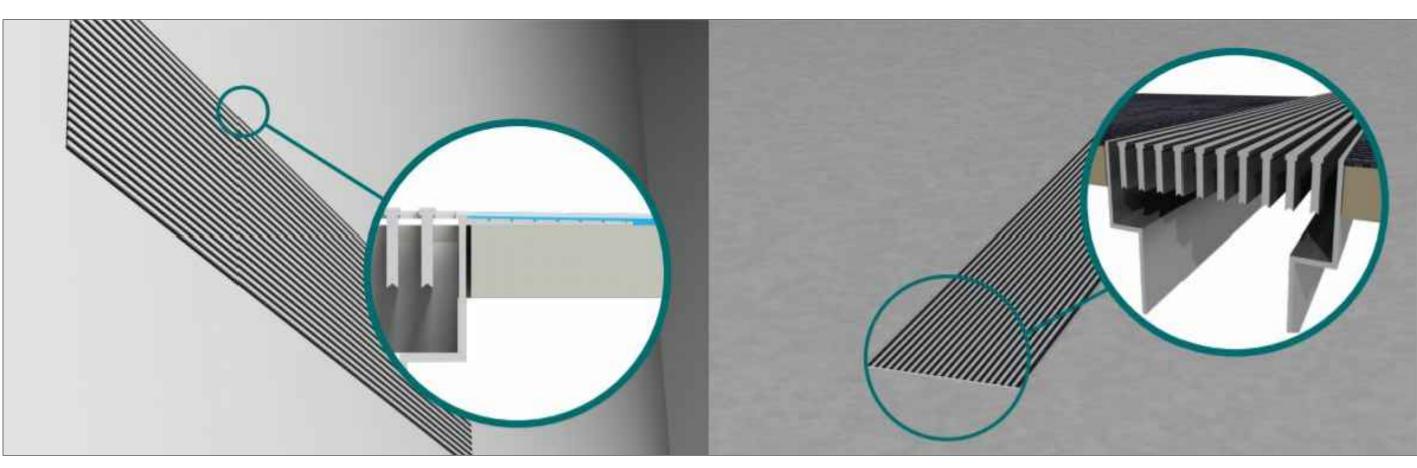
Stage Handrail Detail

SCALE: 3" = 1'-0"



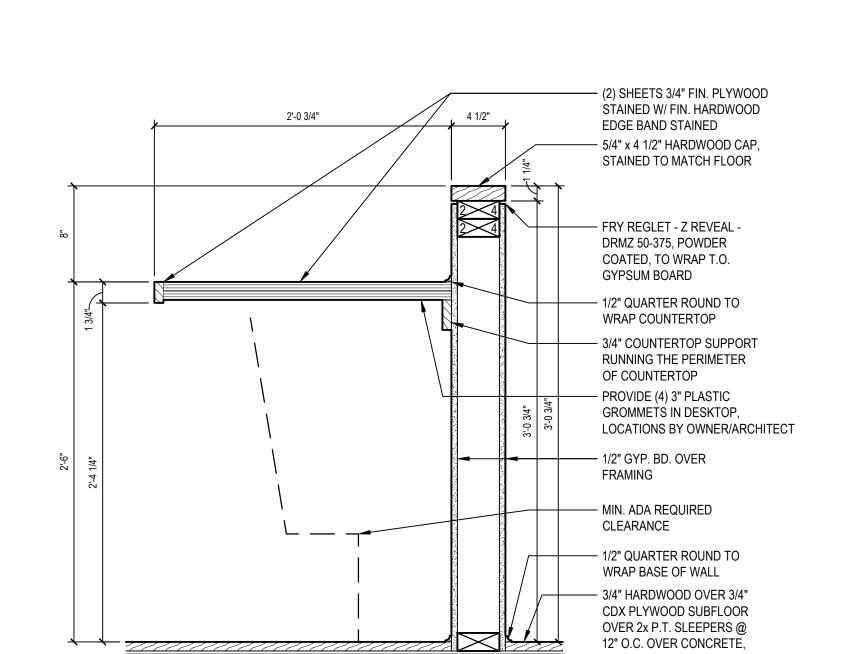
Railing Reference Photo

SCALE: N.T.S.



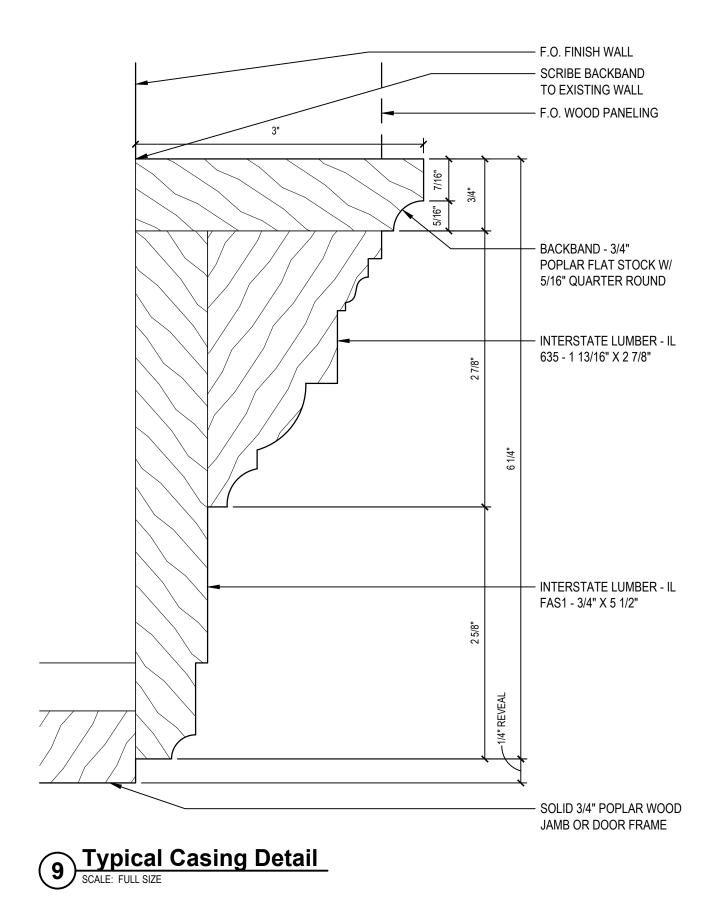
5 Framless HVAC Grille At Plaster Walls
SCALE: N.T.S.

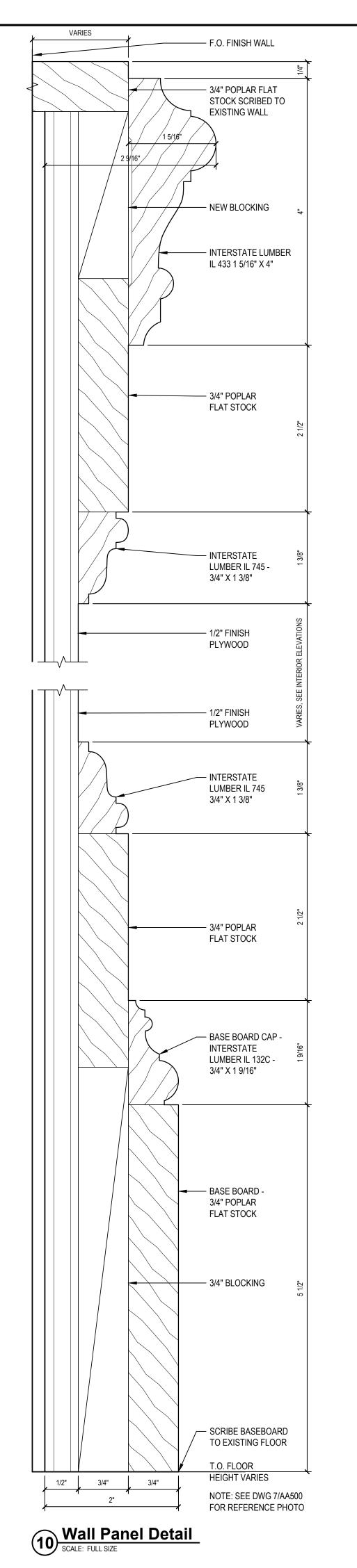
6 Framless HVAC Grille At Wood Paneling
SCALE: N.T.S.

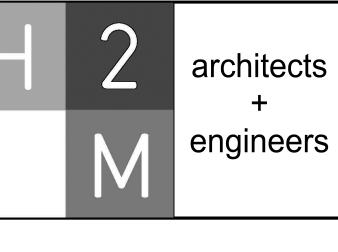


SEE 'S' DRAWINGS FOR ADDITIONAL INFORMATION

7 AV Control Booth Section Detail
SCALE: 1 1/2" = 1'-0"

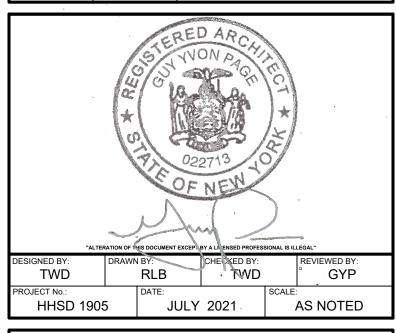






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Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

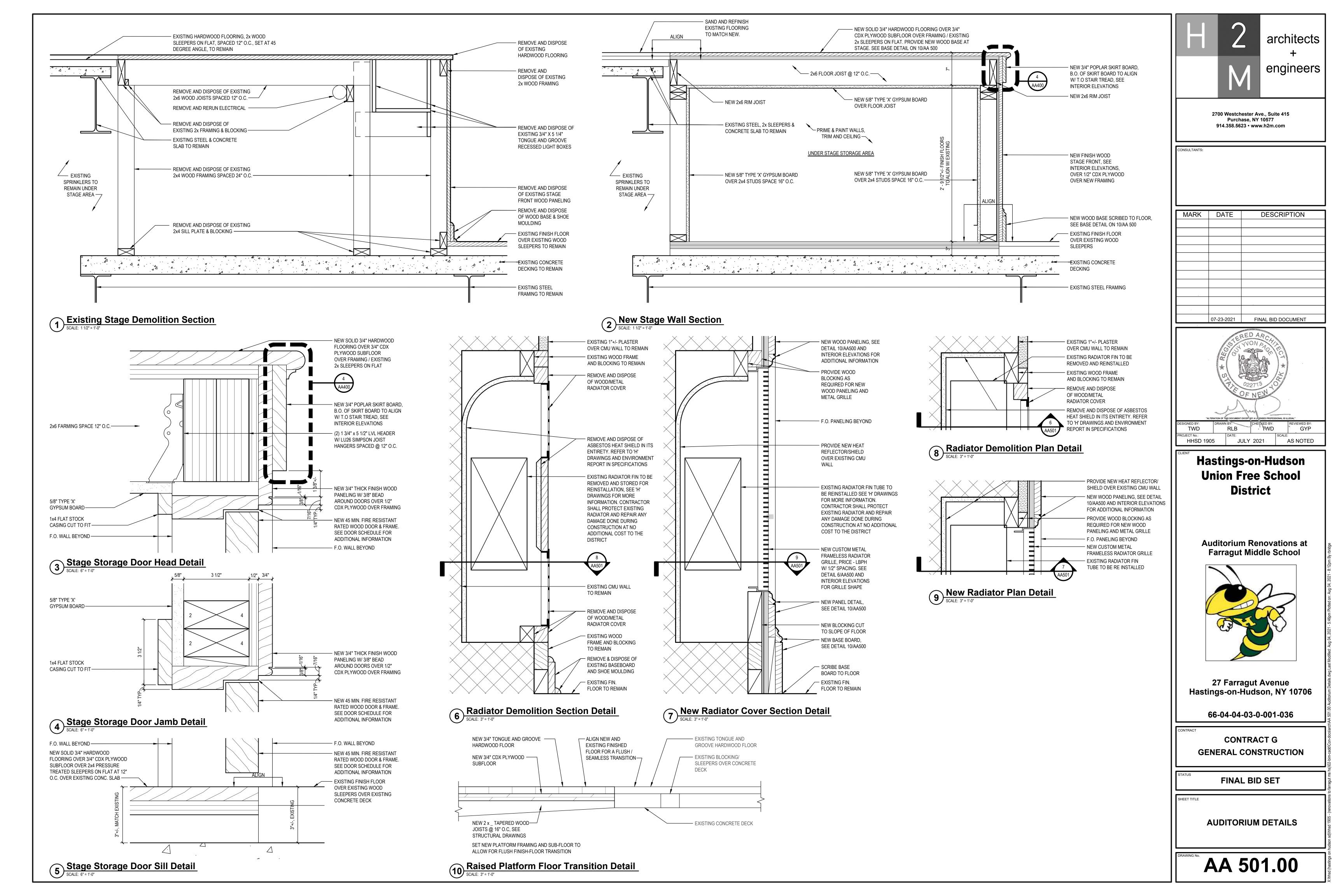
CONTRACT G
GENERAL CONSTRUCTION

FINAL BID SET

TITLE

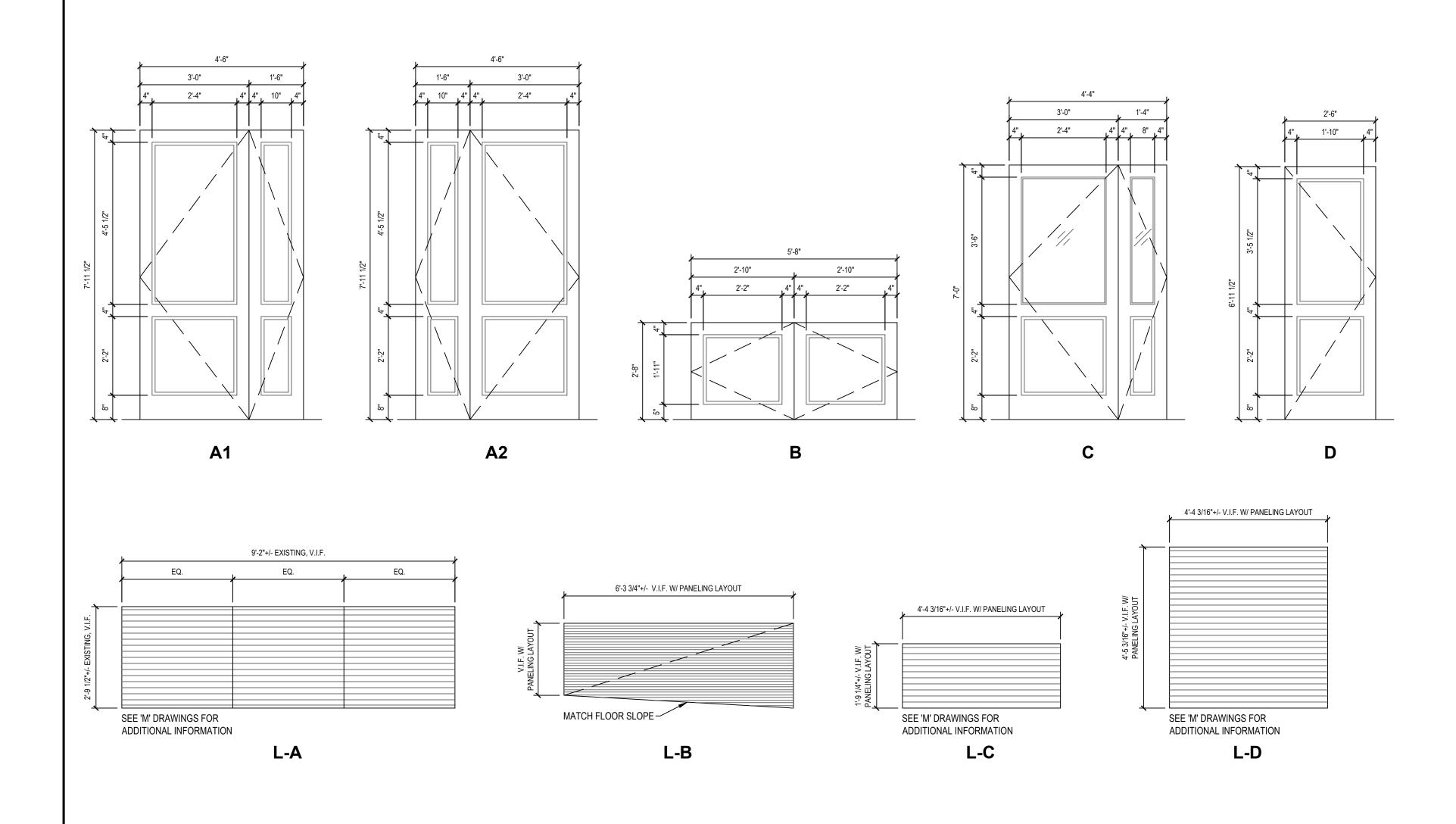
AUDITORIUM DETAILS

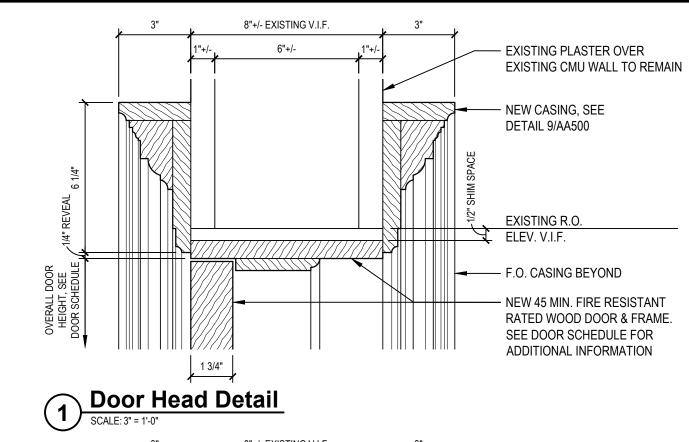
AA 500.00

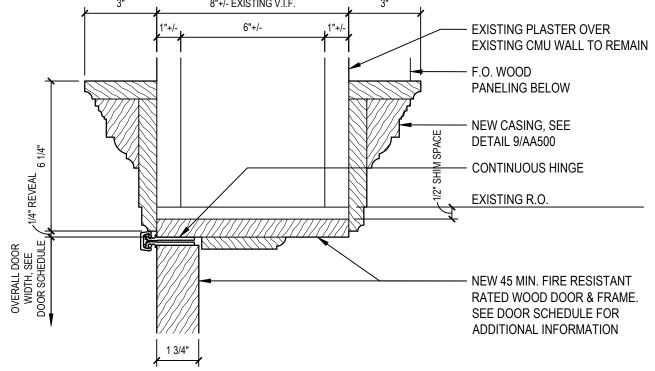


OOR NO.	ROOM NAME	HAND	QTY.	DOOR SIZE	DOOR TYPE	FRAME MATERIAL	FRAME FINISH	DOOR MATERIAL	DOOR FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	MULLION DETAIL	PANEL DETAIL	GLAZING DETAIL	FIRE RATING	HARDWARE SET	REMARKS
401	AUDITORIUM	DBL DOOR	1	4'-6" X 7'-11 1/2"	A1	WOOD	PAINTED	WOOD, PANELED W/ NON COMBUSTIBLE GYPSUM CORE	PLAIN SLICED, WHITE MAPLE, STAINED	1/AA600	2/AA600	4/AA600	-	3/AA600	N/A	45 MINUTE	1	
402	AUDITORIUM	DBL DOOR	1	4'-6" X 7'-11 1/2"	A2	WOOD	PAINTED	WOOD, PANELED W/ NON COMBUSTIBLE GYPSUM CORE	PLAIN SLICED, WHITE MAPLE, STAINED	1/AA600	2/AA600	4/AA600	-	3/AA600	N/A	45 MINUTE	1	
403	AUDITORIUM	DBL DOOR	1	4'-6" X 7'-11 1/2"	A2	WOOD	PAINTED	WOOD, PANELED W/ NON COMBUSTIBLE GYPSUM CORE	PLAIN SLICED, WHITE MAPLE, STAINED	1/AA600	2/AA600	4/AA600	-	3/AA600	N/A	45 MINUTE	1	
404	STAGE STORAGE AREA	DBL DOOR	1	2'-8" X 5'-8"	В	WOOD	PAINTED	WOOD, ONE SIDE PANELED W/ NON COMBUSTIBLE GYPSUM CORE	WOOD, PAINTED	3/AA501	4/AA501	5/AA501	-	3/AA600	N/A	45 MINUTE	3	
405	STAGE STORAGE AREA	DBL DOOR	1	2'-8" X 5'-8"	В	WOOD	PAINTED	WOOD, ONE SIDE PANELED W/ NON COMBUSTIBLE GYPSUM CORE	WOOD, PAINTED	3/AA501	4/AA501	5/AA501	-	3/AA600	N/A	45 MINUTE	3	
406	STAGE STORAGE AREA	DBL DOOR	1	2'-8" X 5'-8"	В	WOOD	PAINTED	WOOD, ONE SIDE PANELED W/ NON COMBUSTIBLE GYPSUM CORE	WOOD, PAINTED	3/AA501	4/AA501	5/AA501	-	3/AA600	N/A	45 MINUTE	3	
407	STAGE	RH	1	2'-6" X 6'-11 1/2"	D	WOOD	PAINTED	WOOD, PANELED W/ NON COMBUSTIBLE GYPSUM CORE	WOOD, PAINTED	1/AA600	2/AA600	4/AA600	-	3/AA600	N/A	90 MINUTE	4	
408	STAIR 'C'	DBL DOOR	1	4'-4" X 7'-0"	С	HOLLOW METAL	PAINTED	WOOD, PANELED W/ NON COMBUSTIBLE GYPSUM CORE & FIRE RESISTANT GLAZING	PLAIN SLICED, WHITE MAPLE, STAINED	5/AA600	6/AA600	7/AA600	-	3/AA600	5/AA600	90 MINUTE	2	
409	LOBBY	RH	1	3'-0" X 7'-0"	D	WOOD	PAINTED	WOOD, PANELED W/ NON COMBUSTIBLE GYPSUM CORE	PLAIN SLICED, WHITE MAPLE, STAINED	1/AA600	2/AA600	4/AA600	-	3/AA600	N/A	45 MINUTE	4	DOOR TO BE INCLUDED IN ALTERNATE #1 WORK, SEE SHEET AA401
410	BATHROOM	RH	1	3'-0" X 7'-0"	D	HOLLOW METAL	PAINTED	WOOD, PANELED W/ NON COMBUSTIBLE GYPSUM CORE	PLAIN SLICED, WHITE MAPLE, STAINED	5/AA600	6/AA600	7/AA600	-	3/AA600	N/A	45 MINUTE	5	DOOR TO BE INCLUDED IN ALTERNATE #1 WORK, SEE SHEET AA401

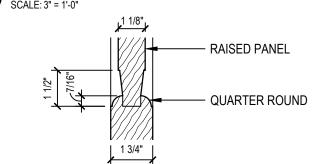
LOUVER/ GRILLE NO.	ROOM NAME	TYPE	QTY.	OPENING WIDTH	OPENING HEIGHT	LOUVER MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	MOTORIZED DAMPERS	REMARKS
L1	AUDITORIUM	L-A	1	SEE TYPE ELEV.	SEE TYPE ELEV.	PAINTED METAL	5/AA500	5/AA500	5/AA500	N/A	SEE 'M' DRAWINGS FOR SIZING AND QUANTITY, CONTRACTOR 'M' TO PROVIDE, CONTRACTOR 'G' TO INSTALL
L2	AUDITORIUM	L-A	1	SEE TYPE ELEV.	SEE TYPE ELEV.	PAINTED METAL	5/AA500	5/AA500	5/AA500	N/A	SEE 'M' DRAWNGS FOR SIZING AND QUANTITY, CONTRACTOR 'M' TO PROVIDE, CONTRACTOR 'G' TO INSTALL
L3	AUDITORIUM	L-B	1	SEE TYPE ELEV.	SEE TYPE ELEV.	PAINTED METAL	7/AA500	9/AA500	7/AA500	N/A	CONTRACTOR 'G' TO PROVIDE AND INSTALL
L4	AUDITORIUM	L-B	1	SEE TYPE ELEV.	SEE TYPE ELEV.	PAINTED METAL	7/AA500	9/AA500	7/AA500	N/A	CONTRACTOR 'G' TO PROVIDE AND INSTALL
L5	AUDITORIUM	L-B	1	SEE TYPE ELEV.	SEE TYPE ELEV.	PAINTED METAL	7/AA500	9/AA500	7/AA500	N/A	CONTRACTOR 'G' TO PROVIDE AND INSTALL
L6	AUDITORIUM	L-C	1	SEE TYPE ELEV.	SEE TYPE ELEV.	PAINTED METAL	5/AA500	5/AA500	5/AA500	N/A	SEE 'M' DRAWINGS FOR SIZING AND QUANTITY, CONTRACTOR 'M' TO PROVIDE, CONTRACTOR 'G' TO INSTALL
L7	AUDITORIUM	L-D	1	SEE TYPE ELEV.	SEE TYPE ELEV.	PAINTED METAL	7/AA500, SIM.	7/AA500, SIM.	7/AA500, SIM.	N/A	SEE 'M' DRAWINGS FOR SIZING AND QUANTITY, CONTRACTOR 'M' TO PROVIDE, CONTRACTOR 'G' TO INSTALL
L8	AUDITORIUM	L-B	1	SEE TYPE ELEV.	SEE TYPE ELEV.	PAINTED METAL	7/AA500	9/AA500	7/AA500	N/A	CONTRACTOR 'G' TO PROVIDE AND INSTALL
L9	AUDITORIUM	L-B	1	SEE TYPE ELEV.	SEE TYPE ELEV.	PAINTED METAL	7/AA500	9/AA500	7/AA500	N/A	CONTRACTOR 'G' TO PROVIDE AND INSTALL
L10	AUDITORIUM	L-B	1	SEE TYPE ELEV.	SEE TYPE ELEV.	PAINTED METAL	7/AA500	9/AA500	7/AA500	N/A	CONTRACTOR 'G' TO PROVIDE AND INSTALL



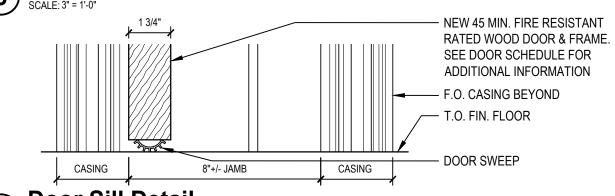




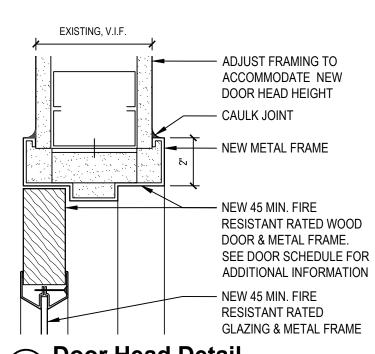
Door Jamb Detail SCALE: 3" = 1'-0"



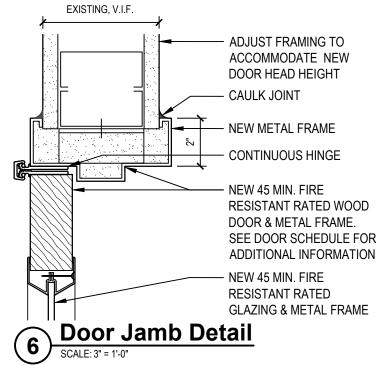
3 Door Panel Detail SCALE: 3" = 1'-0"

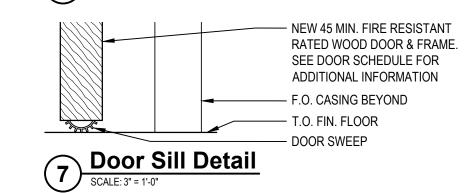


Door Sill Detail SCALE: 3" = 1'-0"



Door Head DetailSCALE: 3" = 1'-0"





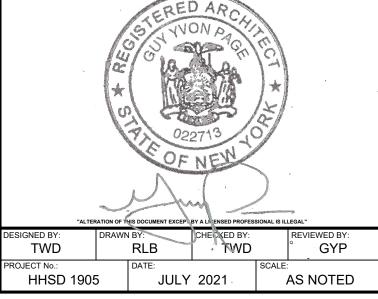


engineers

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Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

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CONTRACT G GENERAL CONSTRUCTION

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DOOR SCHEDULE, TYPES AND DETAILS

AA 600.00

	/IATIONS
AFF	ABOVE FINISHED FLOOR
BCU	BUILDING CONTROL UNIT
BTU	BRITISH THERMAL UNIT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
COMM.	CONTROL VALVE
CV (D)	DEMOLISH
DB	DRY BULB
DCV	DEMAND CONTROLLED VENTILATION
DEG. F	DEGREES FAHRENHEIT
DIA	DIAMETER
DX	DIRECT EXPANSION
'E'	ELECTRICAL CONTRACTOR
(E)	EXISTING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATING
ESP	EXTERNAL STATIC PRESSURE
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FT. H20	FEET OF WATER
'G'	GENERAL CONSTRUCTION CONTRACTOR
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
Н	HEIGHT
'H'	HVAC CONTRACTOR
HP	HORSEPOWER
IN.	INCHES
IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)
KW	KILOWATTS
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LCD	LIQUID CRYSTAL DISPLAY LEAVING DRY BULB TEMPERATURE
LPR	STEAM CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M	METER
MAX	MAXIMUM
MBH	1,000 BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN	MINIMUM
MNF	MANUFACTURER
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OAI	OUTDOOR AIR INTAKE
OD	OUTER DIAMETER
OED	OPEN ENDED DUCT
'P'	PLUMBING CONTRACTOR
(P)	PROPOSED
PD	PRESSURE DROP
PSIG	LBS / SQUARE INCH (GAUGE PRESSURE)
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SAT	SUPPLY AIR TEMPERATURE
SEER	SEASONAL ENERGY EFFICIENCY RATING
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
W	WIDTH
WB WMS	WET BULB WIRE MESH SCREEN

		_						
SYMBOL	ABBREV	DESCRIPTION						
\		DUCTWORK BRANCH CONNECTION						
	VD	VOLUME DAMPER						
	CD	ROUND FACE SUPPLY DIFFUSER						
	SEE AIR DEVICE SCHEDULE	SIDEWALL SUPPLY, RETURN OR EXHAUST GRILLE/REGISTE						
	SEE AIR DEVICE SCHEDULE	SQUARE FACE SUPPLY DIFFUSER						
רא גט	SEE AIR DEVICE SCHEDULE	BOTTOM RETURN OR EXHAUST GRILLE/REGISTER						
	FC	FLEXIBLE CONNECTION						
		TURNING VANES						
		RECTANGULAR TO ROUND TRANSITION						
	AL	ACOUSTICAL LINING						
		END CAP						
	SEE AIR DEVICE SCHEDULE	SUPPLY DIFFUSER WITH DIRECTIONAL FLOW (SOLID HATCH INDICATES BLANK OFF PANEL)						
		SUPPLY DUCT DROP (TURN DOWN)						
		RETURN/EXHAUST DUCT DROP (TURN DOWN)						
		SUPPLY DUCT RISE						
		RETURN/EXHAUST DUCT RISE						
DSD ———	DSD	DUCT SMOKE DETECTOR						
M	MD	MOTORIZED DAMPER WITH ACTUATOR						
OR	AD	ACCESS DOOR						
——	FD/AD	FIRE DAMPER WITH ACCESS DOOR						
	FSD/AD	FIRE SMOKE DAMPER WITH ACCESS DOOR						
		FAN						
'///// ,		WORK TO BE REMOVED						
•		POINT OF DISCONNECTION FROM EXISTING						
•		POINT OF CONNECTION TO EXISTING						
CONTROLS LEGEND								

CONTROLS LEGEND		
SYMBOL	ABBREV	DESCRIPTION
©		CARBON MONOXIDE SENSOR
T		THERMOSTAT
<u></u>		DIGITAL TEMPERATURE SENSOR
H		HUMIDITY SENSOR
©2)		CARBON DIOXIDE SENSOR
P		PRESSURE SENSOR

PIPING LEGEND		
SYMBOL	ABBREV	DESCRIPTION
		NEW WORK
C— O—		PIPING DOWN/ PIPING UP
6 [BALL VALVE WITH HOSE END CONNECTION
<u> </u>	TH	THERMOMETER
→ ⊢	U	UNION
	FPC	FLEXIBLE PIPE CONNECTION
		DIRECTION OF FLOW
—————————————————————————————————————	PSR	PRESSURE SAFETY AND RELIEF VALVE
_ \$ _	PRV	PRESSURE REDUCING VALVE
_	BV	BALL VALVE
─७ ♦	ВА	BALANCING VALVE
П — <u>—</u> ——————————————————————————————————	BFV	BUTTERFLY VALVE
- Î		TEMPERATURE SENSOR WITH THERMOWELL
\longrightarrow	GA	GATE VALVE
₩ —₩—	GB	GLOBE VALVE
A	AV	AUTOMATIC AIR VENT
	CV	2-WAY ELECTRONIC CONTROL VALVE
	CV	3-WAY ELECTRONIC CONTROL VALVE
— — ——————————————————————————————————	CV	2-WAY PNEUMATIC CONTROL VALVE
─────	CV	3-WAY PNEUMATIC CONTROL VALVE
	STR	STRAINER WITH BLOW OFF VALVE WITH HOSE END CONNECTION
₩ >	FD	FLOOR DRAIN
S		AIR SEPARATOR
——⊗ ^{F&T}		STEAM TRAPS (INDICATE TYPE)
→ → →	СН	CHECK VALVE
V	PG	PRESSURE GAUGE WITH GAUGE COCK
─	RED	REDUCER
ı 	со	CLEANOUT END CAP
_ _		PIPE GUIDE
		PIPE ANCHOR
		CAPPED PIPE
		PUMP
.///// ,		WORK TO BE REMOVED
•		POINT OF DISCONNECTION FROM EXISTING
•		POINT OF CONNECTION TO EXISTING
<u> </u>	TDV	TRIPLE DUTY VALVE

GENERAL NOTES

- 1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- 2. THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF BIDS.
- 3. PERFORM ALL WORK IN ACCORDANCE WITH THE PLUMBING CODE, FIRE CODE, MECHANICAL CODE, ENERGY CONSERVATION CONSTRUCTION CODE, AND FUEL GAS CODE OF NEW YORK STATE AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- 4. COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL
- 5. FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, DUCTWORK, CONDUIT, ETC. PROVIDE FIRE DAMPERS AND ACCESS DOORS IN ALL OPENINGS IN FIRE RATED FLOORS, PARTITIONS, AND WALLS FOR DUCTWORK AS PER THE MECHANICAL CODE OF NEW YORK STATE. (SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED CONSTRUCTION.)
- 6. DO NOT SCALE DRAWINGS. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS, PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS. INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S REQUIREMENTS TO PROVIDE PROPER CLEARANCE FOR INSTALLATION, OPERATION, AND MAINTENANCE. CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTOR'S FABRICATED ITEMS SHALL ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY
- 7. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- 8. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.
- 9. PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR EQUIPMENT IS REQUIRED.
- INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING AND EQUIPMENT INSTALLATION REQUIREMENTS.
- 11. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE MANUFACTURER CERTIFIED ACCURACY.
- 12. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING AND DUCT TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.
- 13. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION
- 14. COORDINATE INSTALLATION OF SUPPLY AND RETURN GRILLES WITH INSTALLATION OF FINISHED CEILINGS.
- 15. COMPLETE ALL PRESSURE TESTS BEFORE ANY MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING INSULATION IS
- 16. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PERFORM ALL TESTING, ADJUSTING, AND BALANCING IN ACCORDANCE WITH THE SPECIFICATIONS.
- 17. MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
- 18. INTERNALLY LINE THE FULL LENGTH OF ALL SUPPLY AND RETURN DUCTWORK WITH 1" THICK INSULATION. INTERNALLY LINED DUCTWORK MEETING THIS REQUIREMENT SHALL ALSO BE PROVIDED WITH EXTERNALLY APPLIED INSULATION AS REQUIRED BY THE SPECIFICATIONS. SEE SPECIFICATION SECTION 230719 FOR ADDITIONAL REQUIREMENTS.
- 19. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS, AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIR STREAM. PROVIDE TRAP AT CONNECTION, WATER SEAL DEPTH 1 INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT/ENGINEER.
- 20. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

WORK IN EXISTING AREAS

- 1. EXISTING CONDITIONS, INCLUDING EQUIPMENT, DUCT AND PIPE SIZES AND LOCATIONS, INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
- 2. CUT AND ROUGH PATCH EXISTING CONSTRUCTION AS REQUIRED FOR THE PERFORMANCE OF THE WORK. FINISH PATCHING AND FLASHING REQUIREMENTS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS. PERFORM ALL CUTTING AND PATCHING WORK IN A MANNER SUCH THAT ANY EXISTING WARRANTEES/GUARANTEES ARE NOT VOIDED. USE QUALIFIED PERSONNEL IN PERFORMANCE OF THE WORK.

CONTRACT 'H' SCOPE NOTES

- 1. PROVIDE ALL LOUVERS FOR INSTALLATION BY CONTRACT 'G'. SUBMIT LOUVER COLOR AND CONFIGURATION TO THE ARCHITECT/ENGINEER FOR APPROVAL.
- 2. INSTALL SMOKE DETECTORS IN DUCTWORK FOR AIR HANDLING UNITS RATED AT 2,000 CFM OR GREATER. SMOKE DETECTOR SUPPLY AND WIRING IS PART OF CONTRACT 'E'.
- 3. FURNISH AND INSTALL ALL NECESSARY CONTROL WIRING, CONDUIT, AND ACCESSORIES AS REQUIRED TO PROVIDE FULLY FUNCTIONING SYSTEMS AND SEQUENCES OF OPERATION.
- 4. FURNISH ALL LINTELS FOR DUCT AND PIPE PENETRATIONS IN INTERIOR MASONRY WALLS FOR INSTALLATION BY
- 5. FURNISH ALL SLEEVES FOR PIPE AND CONDUIT FLOOR, WALL, PARTITION, AND ROOF PENETRATIONS FOR
- 6. FURNISH ALL CURBS FOR ALL ROOF MOUNTED EQUIPMENT AND DUCT PENETRATIONS FOR INSTALLATION BY
- 7. REMOVE CHASE ENCLOSURE COVER WHEN PERFORMING WORK IN ANY CHASE, AND REINSTALL THE CHASE ENCLOSURE COVER WHEN WORK IS COMPLETE.
- 8. PERFORM ALL CUTTING AND ROUGH PATCHING AS REQUIRED IN THE EXECUTION OF THE WORK. FINISH PATCHING AND FLASHING IS PART OF CONTRACT 'G'.

LEGENDS/ABBREVIATIONS NOTES

INSTALLATION BY CONTRACT 'G'.

1. ABBREVIATIONS AND SYMBOLS ON THIS SHEET DO NOT DEFINE THE SCOPE OF WORK.



engineers

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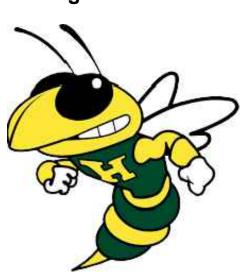
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	07-23-2021	FINAL BID DOCUMENT



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ESIGNED BY:	DRAWN BY:		CHECKED BY:		REVIEWED BY:
CAK	CAK		BMC		° AEH
ROJECT No.:		DATE:		SCALE	
HHSD 1905	5	JULY	2021	,	AS NOTED

Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

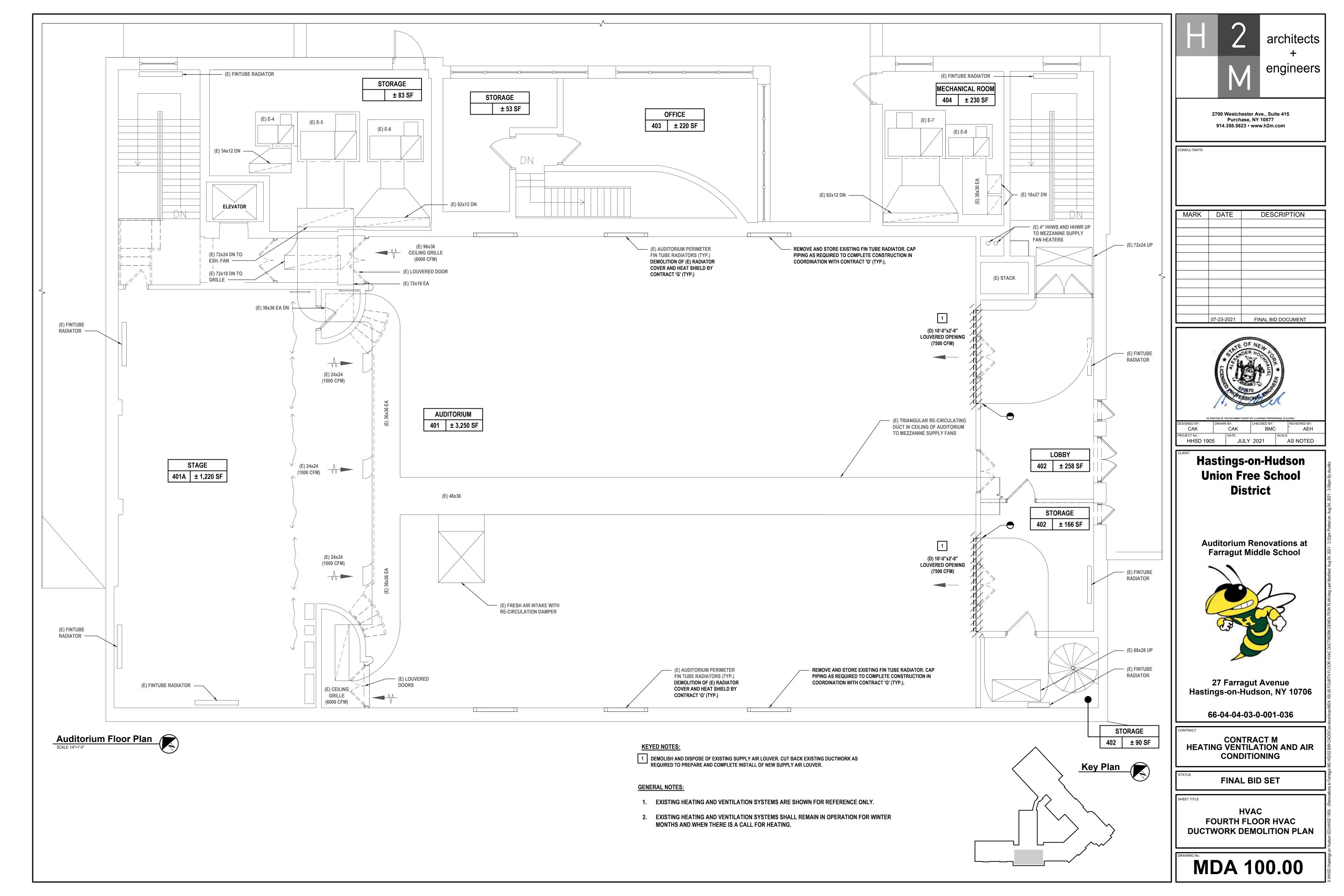
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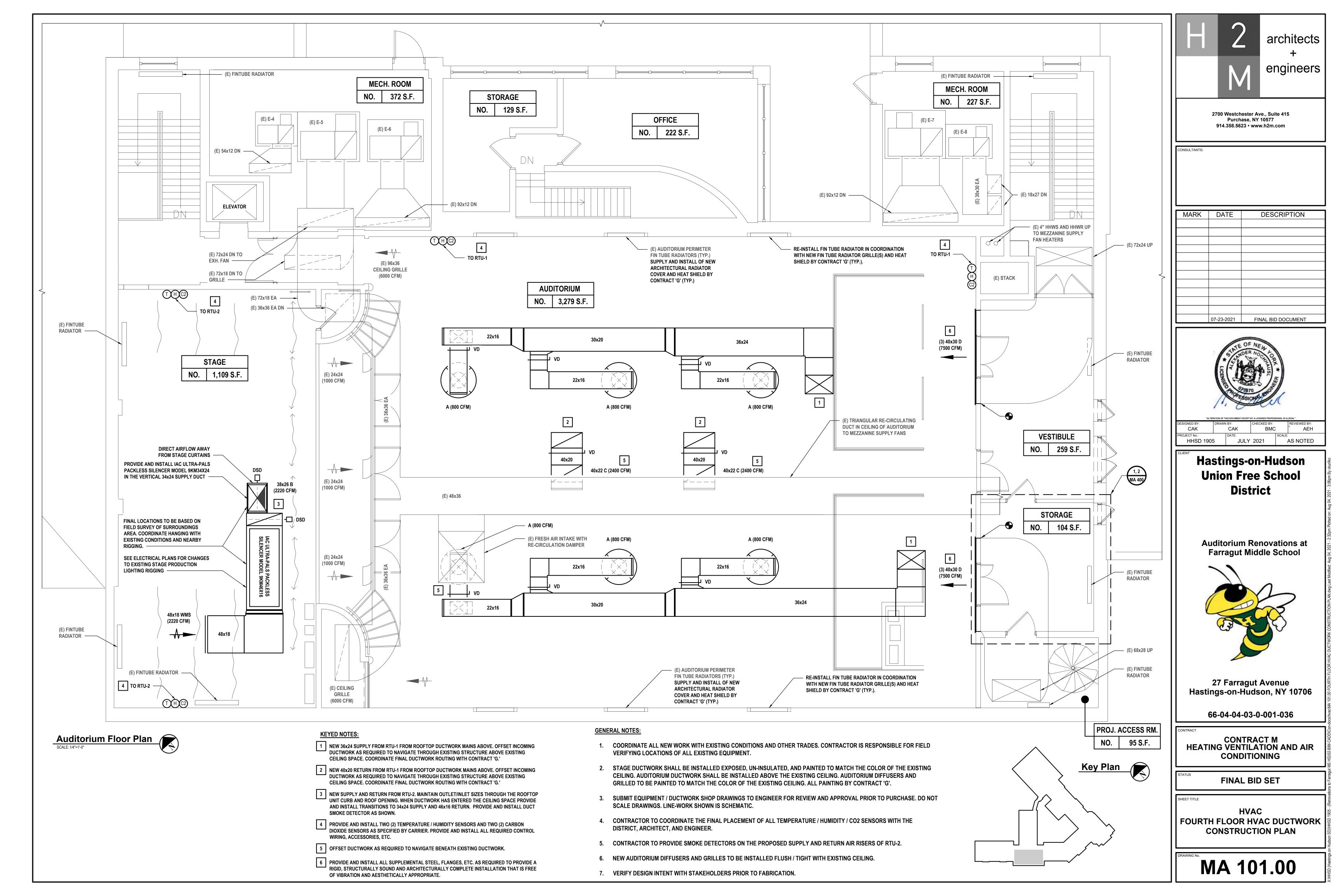
CONTRACT M **HEATING VENTILATION AND AIR** CONDITIONING

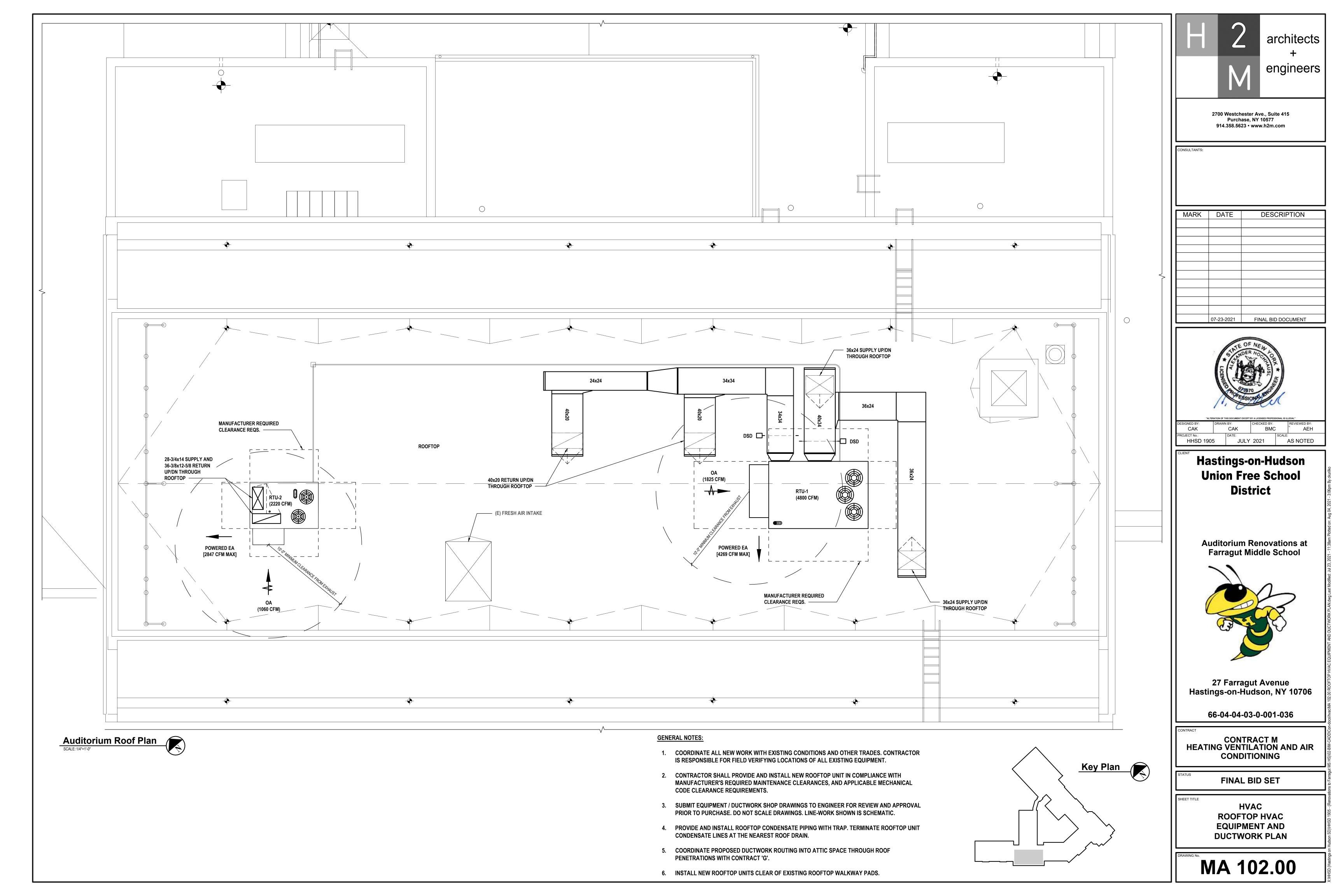
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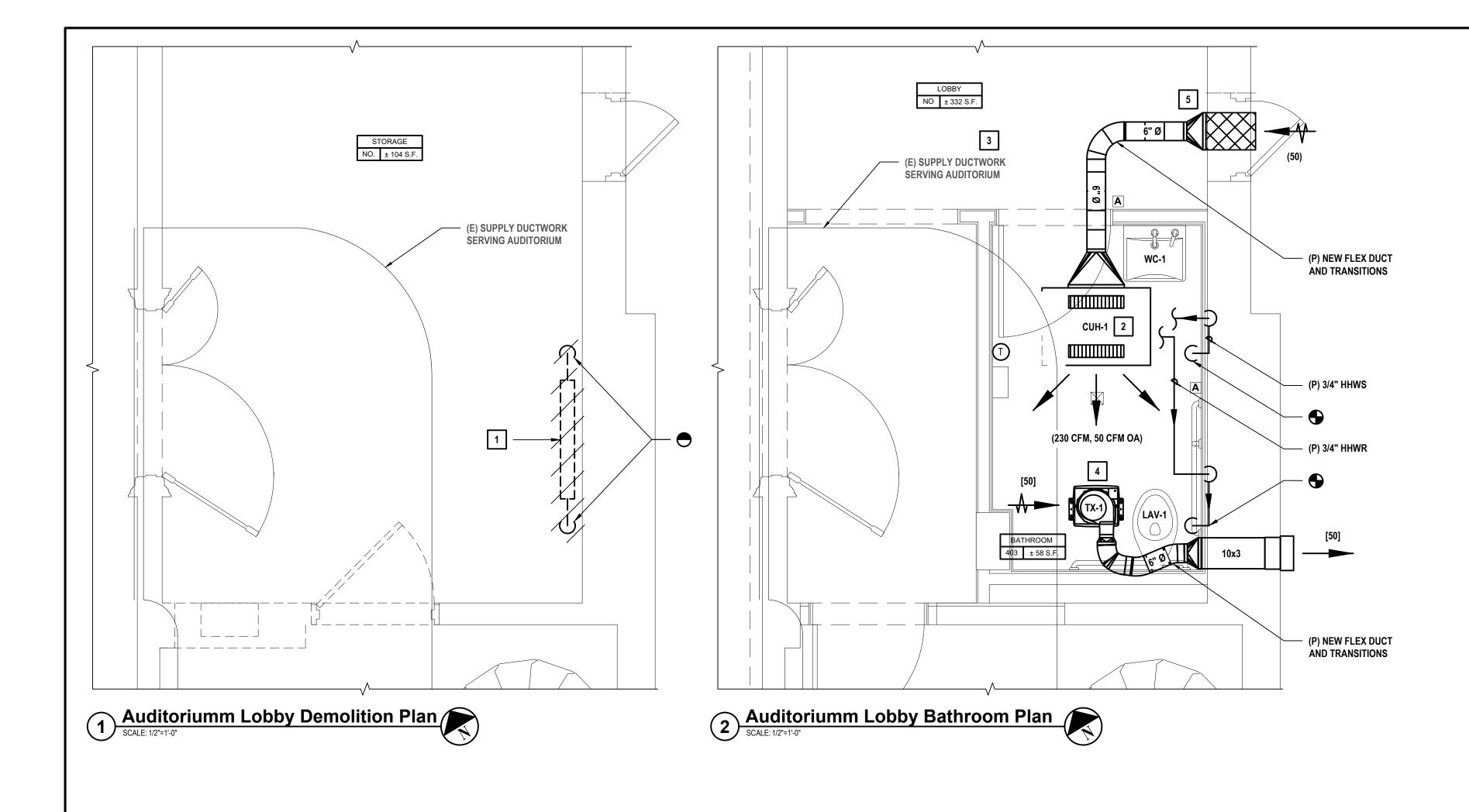
HVAC **GENERAL HVAC** NOTES, LEGENDS, **AND ABBREVIATIONS**

MA 000.00









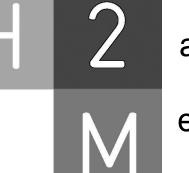
KEYED NOTES:

١	1	CONTRACTOR TO REMOVE RADIANT FIN TUBE IN ITS ENTIRETY. REMOVE ALL PIPING, CONTROLS
٠		AND SUPPORTS. CUT AND CAP PIPING BACK TO MAINS AS CONDITIONS ALLOW TO PREP FOR NI
		CONSTRUCTION. IF PIPING IS FOUND TO BE PART OF AN ACTIVE CIRCUIT, RE-ROUTE PIPING TO
		MAINTAIN HEATING CIRCUIT. CONTRACT 'G' TO PATCH AND REPAIR RADIATOR AREA AS REQUIR
		TO MATCH EXISTING SURROUNDINGS / IN COORDINATION WITH NEW WORK.

- SUPPLY AND INSTALL NEW CABINET UNIT HEATER. MOUNT AND RECESS IN COORDINATION WITH SURROUNDING CEILING AND NEW LIGHTS BY OTHERS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANUFACTURER'S REQUIRED MOUNTING EQUIPMENT AND INSTALL AS PER MANUFACTURER'S SPECIFICATIONS. SUPPLY AND INSTALL REQUIRED 3/4" HYDRONIC SUPPLY AND RETURN PIPING BACK TO MAINS.
- COORDINATE INSTALLATION OF NEW CUH-1 WITH EXISTING AUDITORIUM SUPPLY DUCTWORK. IF EXISTING CONDITIONS INTERFERE, SHIFT FINAL LOCATION OF CUH-1 AS REQUIRED TO CLEAR EXISTING SUPPLY DUCTWORK.
- SUPPLY AND INSTALL NEW EXHAUST FAN. MOUNT PER MANUFACTURER'S SPECIFICATIONS. PROVIDE AND INSTALL DUCT TRANSITIONS AND MODEL WC-10x3 HOOD WALL END CAP.
- 5 SUPPLY AND INSTALL NEW 12x8 GREENHECK ESJ-202 FRESH AIR INTAKE LOUVER WITH NEW 12x8 GREENHECK WD-400 BACKDRAFT DAMPER. PROVIDE AND INSTALL DUCTWORK TRANSITION FROM 6" Ø FLEX DUCTWORK TO NEW ASSEMBLY.

GENERAL NOTES:

- 1. COORDINATE ALL WORK WITH EXISTING CONDITIONS AND OTHER TRADES.
- 2. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S REQUIRED MAINTENANCE CLEARANCES AND PREVAILING CODE.
- 3. DO NOT SCALE DRAWINGS. LINE WORK IS PROVIDED FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS BASED ON DESIGN INTENT, SURVEY OF EXISTING CONDITIONS, AND COORDINATION WITH OTHER TRADES.
- 4. EXISTING CONDITIONS ARE BASED ON A LIMITED FIELD SURVEY. CONTRACT IS RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS FOR ALL CONFLICTS AND SHALL ALERT ENGINEER PRIOR TO COMMENCEMENT OF NEW WORK AND PURCHASE OF EQUIPMENT.
- 5. MAINTAIN MINIMUM OF 10'-0" BETWEEN FRESH AIR INLET AND EXHAUST AIR OUTLET DUCTWORK.

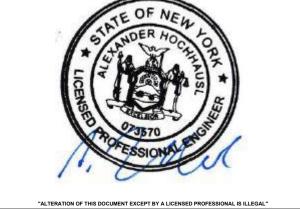


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PROJECT No.:		DATE:		SCALE	
HHSD 1905	5	JULY	2021	,	AS NOTED

Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

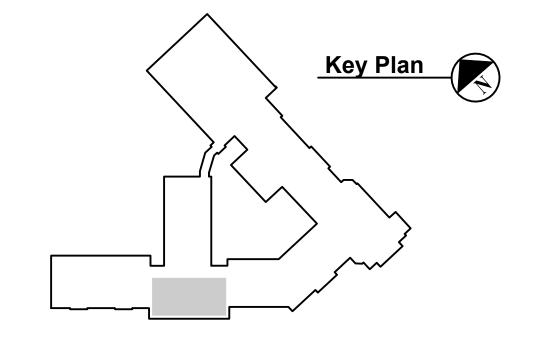
CONTRACT M
HEATING VENTILATION AND AIR
CONDITIONING

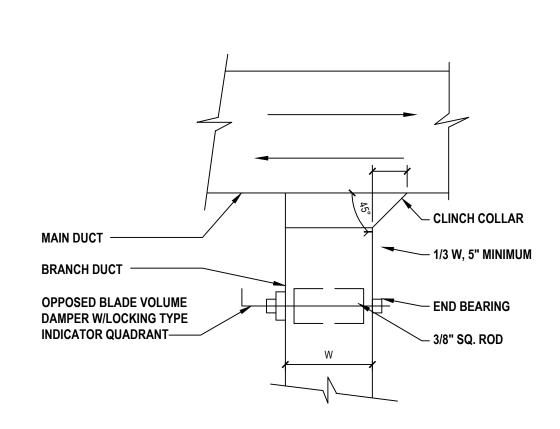
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HVAC
ENLARGED FOURTH
FLOOR BATHROOM HVAC

MA 400.00

PLAN ALTERNATE M1





1. FURNISH THIS TYPE OF CONNECTION WHEN SINGLE LINE DUCTWORK IS INDICATED AS SHOWN FOR LOW PRESSURE BRANCHES WITH LESS THAN 33% CAPACITY OF MAIN DUCT.

Duct Branch Takeoff For Low Pressure DuctowrkSCALE: NTS

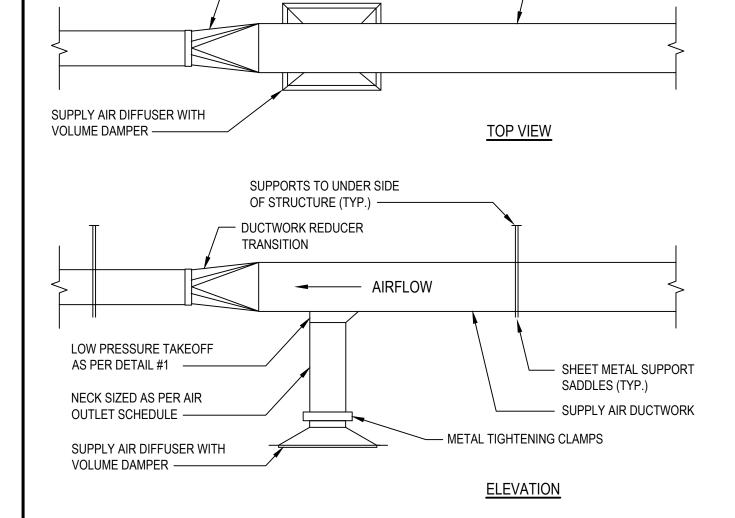
—— SUPPLY AIR DUCTWORK

SHEET METAL SCREWS 4"

ON CENTER

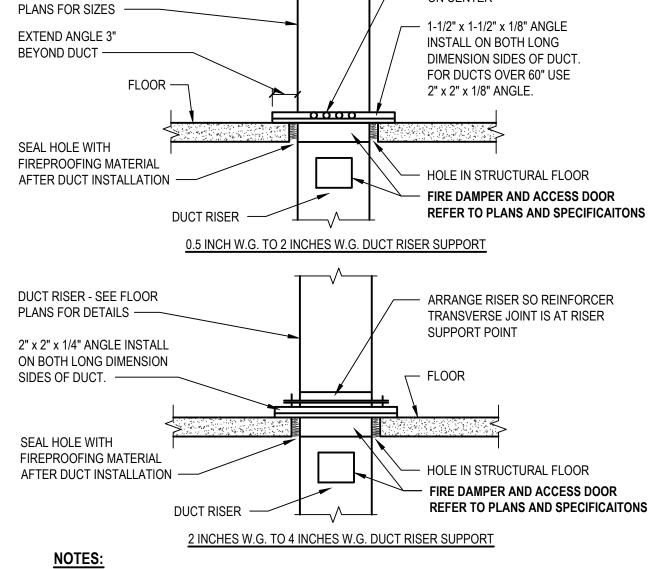
- DUCTWORK REDUCER

TRANSITION



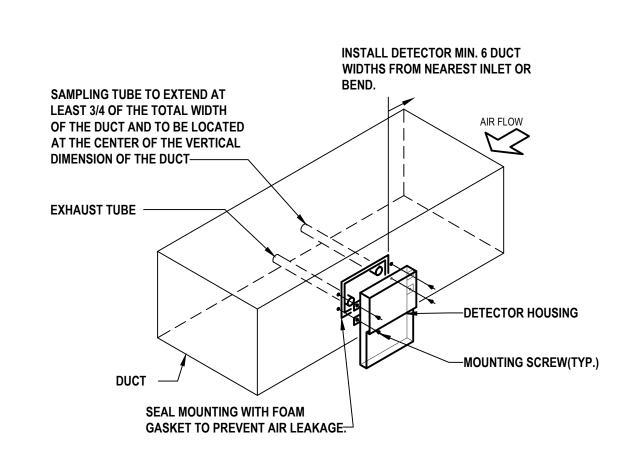
Round Neck Diffusers | SCALE: NTS | (DETAIL #)

DUCT RISER - SEE FLOOR



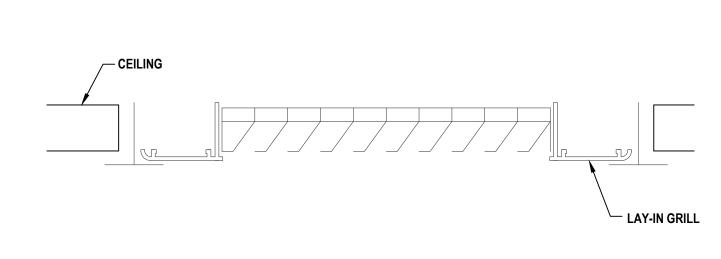
1. ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND FAN ROOM FLOORS SHALL BE PROVIDED WITH A 3" HIGH CONCRETE CURB AROUND OPENING FOR DUCT.





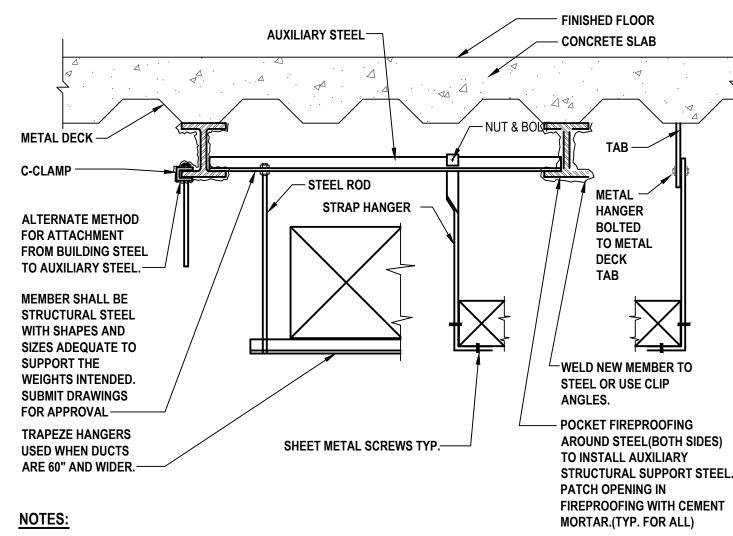
1. INTERFACE OF NEW DUCT SMOKE DETECTORS W/ EXISTING **BUILDING FIRE ALARM SYSTEM BY CONTRACT 'E'.**

Duct Mounting Smoke Detector Detail SCALE: NTS (DETAIL #)

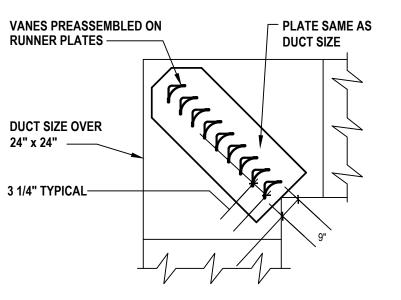


- 1. PROVIDE A GRILL WITH A LAY-IN, ALUMINUM FRAME/ BORDER.
- 2. PROVIDE CONCEALED SCREW HOLES IN NECK.
- 3. PROVIDE CLINCH LOCK DUCT COLLAR AND TELESCOPIC SLEEVE. 4. SECURE GRILL FRAME/ TO SLEEVE AND DUCT COLLAR TO SLEEVE.

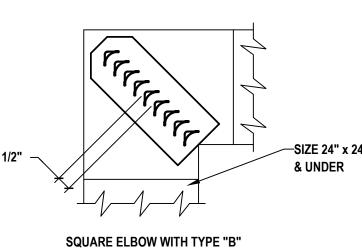
Ceiling Plenum Transfer Grill Detail SCALE: NTS (DETAIL #)



- 1. DUCTS SHALL NOT BE HUNG FROM OR SUPPORTED BY HUNG CEILING.
- 2. FOR DUCTS NOT EXCEEDING 2 SQ. FT. IN CROSS- SECTIONAL AREA, HANGERS SHALL BE OF METAL NOT LESS THAN 1/16".
- 3. FOR DUCTS LARGER THAN 2 SQ. FT. IN CROSS- SECTIONAL AREA, HANGERS SHALL BE OF METAL NOT LESS THAN 1" x 1/8". 4. FOR ALL DUCTS, HANGERS SHALL BE TURNED UNDER AND FASTENED TO THE BOTTOM OF DUCTS AS SHOWN ABOVE.
- 5. WHERE CROSS-SECTIONAL AREA OF DUCT EXCEEDS 8 SQ. FT., HANGERS SHALL BE SPACED NOT MORE THAN 4 FT. ON
 - 9 Duct Support Attachment to I-Beam
 SCALE:NTS (DETAIL#)

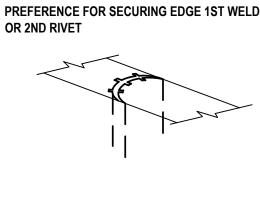


SQUARE ELBOW WITH TYPE "A" DOUBLE THICKNESS VANES



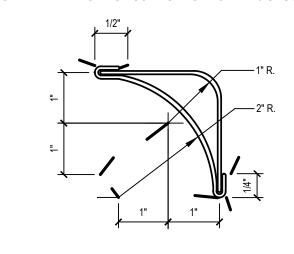
DOUBLE THICKNESS VANES.

USE GALVANIZED STEEL FOR VANES IN EITHER STEEL OR ALUMINUM DUCTWORK.

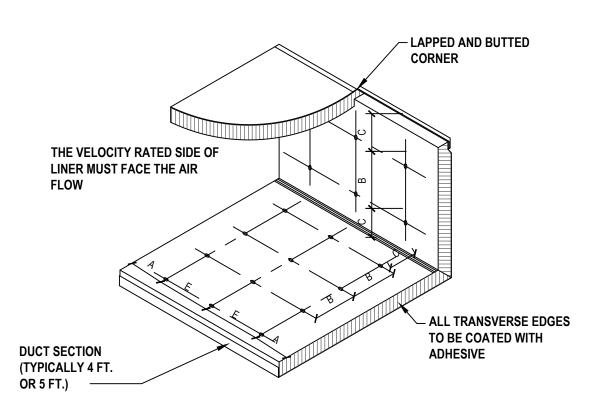


- DIMPLES IN PLATE TO ALIGN

TYPE "A" DOUBLE THICKNESS VANES FOR USE IN DUCTS GREATER THAN 24" x 24" IN SIZE. USE SAME GAUGE GALVANIZED IRON AS DUCT NOT TO EXCEED 20 GAUGE.



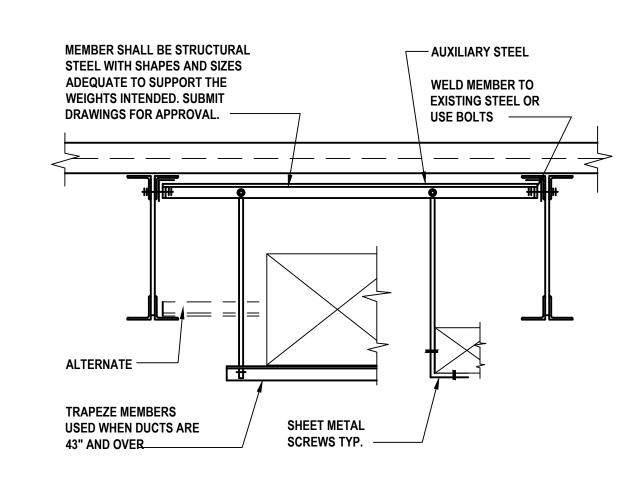
DOUBLE THICKNESS VANES FOR USE IN DUCTS 24" x 24" AND UNDER



MAXIMUM SPACING FOR FASTENERS. ACTUAL INTERVALS ARE APPROXIMATE. 90% MIN. AREA COVERAGE OF **ADHESIVE**

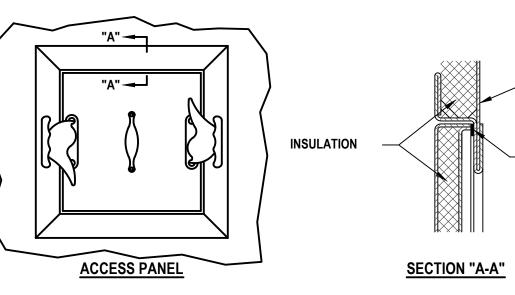
VELOCITY*		DIMEN	* UNLESS A L		
VELOCITY	Α	В	С	E	SET BY MAN
0-1500 FPM	3"	12"	4"	18"	LISTING AGE
1501-3500 FPM	3"	6"	4"	16"	

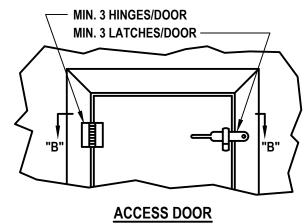
Acoustical Liner Fastening Detail SCALE:NTS (DETAIL#)



Duct Support Detail

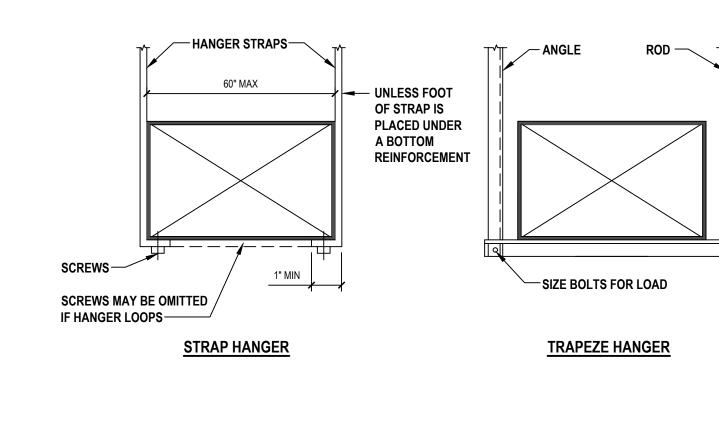
SCALE: NTS (DETAIL #)





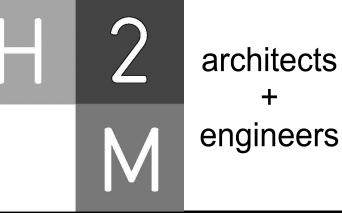
HANDLE INSIDE SECTION "B-B"

- 1. LATCHES SHALL BE OF THE WEDGE TYPE TO CLOSE DOORS TIGHTLY.
- 2. HINGES ON THE ACCESS DOORS SHALL HAVE NON-CORROSIVE PINS. 3. PROVIDE ACCESS DOORS ON AIR HANDLING UNITS AND DUCTWORK INSTALLED IN EQUIPMENT ROOMS. PROVIDE ACCESS PANELS ON ALL EQUIPMENT AND DUCTWORK INSTALLED ABOVE FINISHED CEILINGS WHERE SPACE LIMITATIONS DO NOT ALLOW HINGED DOORS TO OPEN.
- Access Door & Panel Details
 | SCALE: NTS (DETAIL #)



1. SIZE ALL SUPPORTS IN ACCORDANCE WITH THE SMACNA **DUCT CONSTRUCTION STANDARDS, LATEST EDITION.**

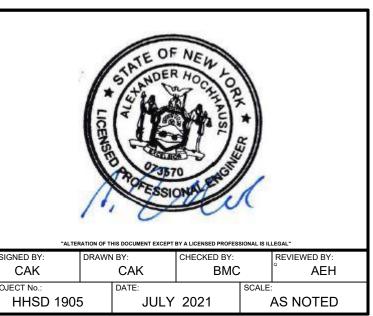
Hanger Detail
SCALE:NTS



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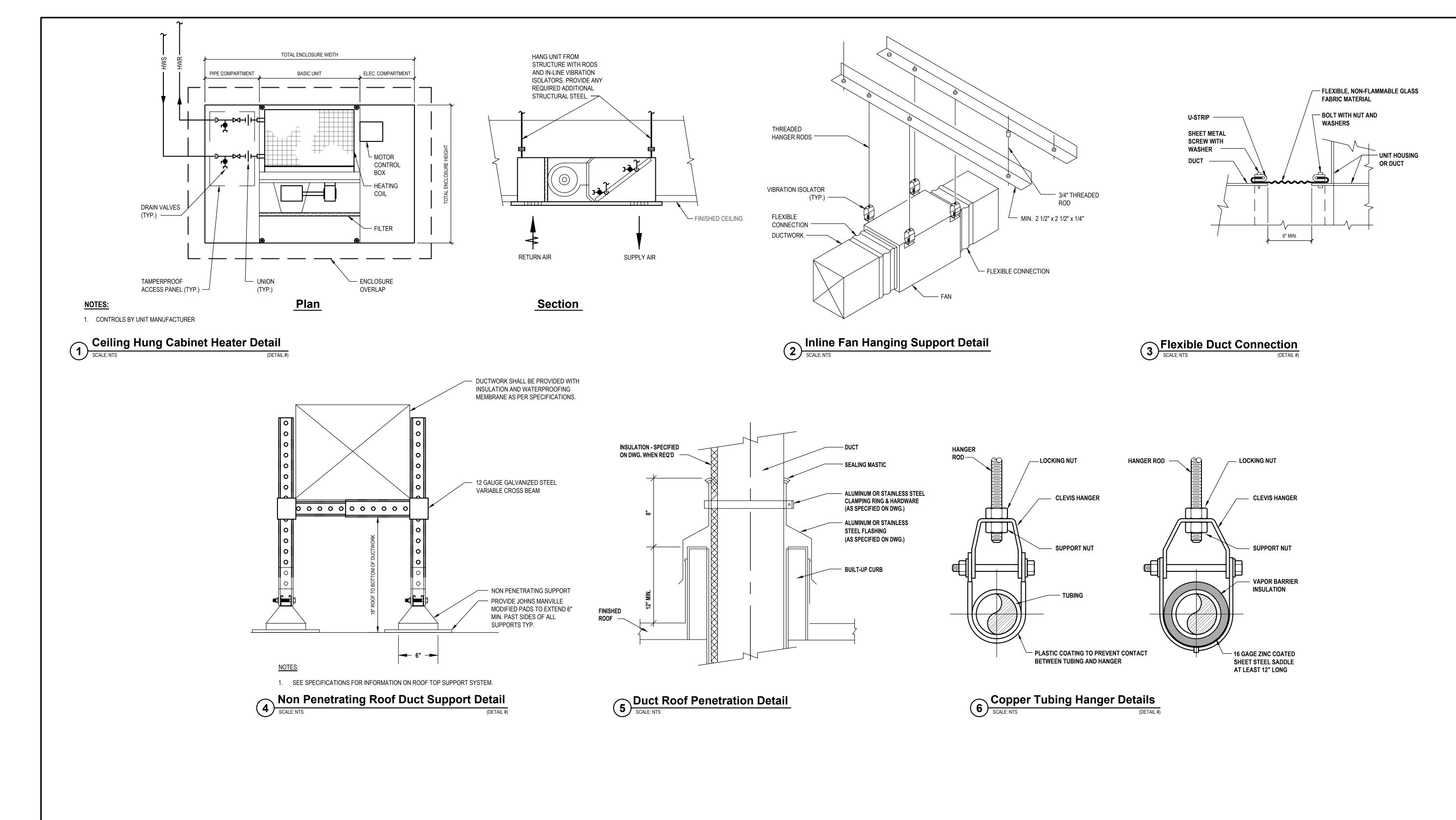
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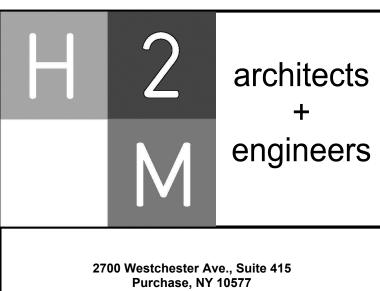
CONTRACT M
HEATING VENTILATION AND AIR CONDITIONING

FINAL BID SET

HVAC HVAC DETAILS I

MA 500.00





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CONTRACT M
HEATING VENTILATION AND AIR
CONDITIONING

FINAL BID SET

IEET TITLE

HVAC HVAC DETAILS II

MA 501.00

VENTILATION INDEX BASED ON 2015 MECHANICAL CODE OF NEW YORK STATE SECTION 403 FLOOR OCCUPANCY LOAD NUMBER OF OCCUPANT BASED OA AREA BASED OUTSIDE NON-ADJUSTED TOTAL ZONE EFFECTIVENESS | TOTAL OA REQUIRED **ACTUAL OA EQUIPMENT** OCCUPANCY **ROOM NAME OUTSIDE AIR** AREA (SF) | (PERSONS/1000 SF) | OCCUPANTS | RATE (CFM/OCCUPANT) | AIR RATE (CFM/SF) PROVIDED (CFM) CLASSIFICATION **FACTOR Ez** REQUIRED (CFM) RTU-1 **ED: AUDITORIUMS** 1800 0.06 1823 1825 **AUDITORIUM** 150 270 1458 0.8 RTU-2 STAGE THEATER: STAGES 1109 0.06 0.8

NOTES:

- 1. VENTILATION RATE CALCULATED IN ACCORDANCE WITH SECTION 403.3 (SINGLE ZONE
- SYSTEMS) OF THE 2015 MECHANICAL CODE OF NYS. 2. ENERGY RECOVERY VENTILATION SYSTEM NOT REQUIRED UNDER EXCEPTION 9, "SYSTEMS
- EXPECTED TO OPERATE LESS THAN 20 HOURS PER WEEK AT THE OUTDOOR AIR PERCENTAGE COVERED BY TABLE C403.2.7(1)."
- 3. AUDITORIUM FLOOR AREA (Az) IS NET OCCUPIABLE PORTION OF THE SPACE = 1800 SF.

UNIT HEATERS (PART OF ADD / ALTERNATE M1)																	
													BA	ASIS OF DESIG	N INFORMAT	ION	
				FAN DATA			AIR I	DATA									
FOURMENT										WAT	ER	_				NOMINAL	
EQUIPMENT NO.	LOCATION	AREA SERVED	FLOW (CFM)	НР	VOLTS/ PHASE	TOTAL CAPACITY (MBH)	ENT. DB TEMP. (DEG. F)	LVG. DB TEMP. (DEG. F)	ENT. TEMP. (DEG. F)	LVG. TEMP. (DEG. F)	FLOW (GPM)	MAX. P.D. (FT. H2O)	MNF	MODEL NO.	NOMINAL DIMENSION S L x W x H	OPERATING WEIGHT	REMARKS
CUH-1	NEW BATHROOM	NEW BATHROOM	230	1 / 15	120 / 1	14.3	60	117	200	180	.84	.06	STERLING	RC-02	35 x 25 x 10	102	1-6

- 1. PROVIDE WITH BMS COMPATIBLE WALL MOUNTED THERMOSTAT
- RECESS UNIT TO 9-1/16" DEEP 3. FRONT DISCHARGE, FRONT RETURN CONFIGURATION
- SEAL KIT ECM MOTOR
- SINGLE ROW COIL

ſ															
	EXHAUST FANS (PART OF ADD / ALTERNATE M1)														
PERFORMANCE/CONSTRUCTION REQUIREMENTS							BASIS OF DESIGN INFORMATION								
	EQUIPMENT LOCATION NO.	LOCATION	SYSTEM SERVED	CFM	EXT S. P. (IN. W.C.)	FAN/MOTOR RPM	MAX. OUTLET VELOCITY (FPM)	ВНР	MNF	MODEL NO.	NOMINAL DIMENSION L x W. x H	WEIGHT	ELECTRICA	L DATA	REMARKS
							(,					(LBS.)	VOLTS/PHASE	FLA	
	TX-1	SEE PLANS	EXHAUST AIR	50	0.47	850	558	0.22	GEENHECK	SP-L80	12 x 14 x 4	10	115 / 1	.23	1, 2

1. GREENHECK MODEL WC-10x3 RECTANGULAR HOODED WALL CAP 2. PLUG DISCONNECT

		AREA SERVED	PERFORMANCE/CONSTRUCTION REQUIREMENTS											
EQUIPMENT LO			REQUIRED ENERGY EFFICIENCY RATING (IEER/EER)	SUPPLY FAN				RETURN/EXHAUST FAN		COOLING COIL				FILTERS
	LOCATION			MAXIMUM FLOW (CFM)	EXT. S.P. (IN W.G)		OUTSIDE AIR FLOW (CFM)	MAXIMUM FLOW		GROSS COOLING	REFRIGERANT	AIR DATA		
						ВНР	(5:)	(CFM)	EXT. S.P. (IN W. G)	CAPACITY (MBH)	TYPE	ENT. DB/WB (DEG. F)	MAX LVG DB/WB (DEG F)	ТҮРЕ
RTU-1	AUD. ROOFTOP	AUDITORIUM	12.4/11.0	4800	1.5	2.55	1825	4269	0.40	155.63	R-410A	81.5 / 68.1	58.8 / 58.1	MERV-13
RTU-2	STAGE ROOFTOP	STAGE	12.8/11.2	2220	1.5	1.53	1060	2220	0.40	77.30	R-410A	83.6 / 69.0	58.7 / 58.5	MERV-13
			_				•							

ROOFTOP UNIT (CONTINUED)

EQUIPMENT NO.	MNF	MODEL NO.	NOMINAL DIMENSIONS LxWxH	NOMINAL OPERATION WEIGHT (LBS)	VOLTS/PHASE	SUPPLY FAN FLA	EXHAUST FAN FLA (EA.)	MCA/MOCP	REMARKS
RTU-1	CARRIER	50LC0A14E3M5-1S2C0	10' 7.875" x 7' 2.375" x 4' 2.5"	2373	208/3	21.2	5.9	88.3 / 100	1-13
RTU-2	CARRIER	50LC0A07E3M5-1R2F0	7' 4.125" x 4' 11.5" x 4' 1.375"	1449	208/3	8.6	3.8	46 / 50	1-13

- DISCONNECT SWITCH
 POWERED CONVENIENCE OUTLET
- 3. COOLING ONLY
- 4. ECONOMIZER
- 5. POWERED EXHAUST6. VERTICAL SUPPLY / RETURN
- 8. HOT GAS MODULATING REHEAT

 - 10. 14" ROOF CURB
 11. SINGLE POINT POWER CONNECTION
 12. DEMAND CONTROL VENTILATION
 13. BACNET COMPATIBLE
- 7. LOW SOUND BLANKET

	DUCT ACC	ESS DOORS	S
	DUCT SIZE PERPENDICULAR TO AIR FLOW (IN)	ACCESS DOOR HEIGHT (IN)	ACCESS DOOR WIDTH (IN)
	6" - 24"	2" SMALLER THAN DUCT SIZE	8" MINIMUM OR EQUAL TO ACCESS DOOR HEIGHT
	25" - 48"	2" SMALLER THAN DUCT SIZE	2'-0"
-	OVER 48"	3'-10"	2'-0"
╛	PLENUMS AND WALK IN ACCESS	5'-6"	2'-0"

AIR OUTLE	TS							
DESIGNATION	SYMBOL	BASIS OF DESIGN: MNF/	DESCRIPTION	FACE SIZE (IN)	AIR FLOW R	ANGE (CFM)	NECK SIZE	REMARKS
DESIGNATION	STWIBOL	MODEL NO.	DESCRIPTION	TAGE GIZE (III)	MIN	MAX	DIAMETER (IN.)	REWARKS
Α	\otimes	TITUS/TMRA	ROUND FACE CEILING DIFFUSER	45.5" Ø	-	SEE DRAWINGS	20" Ø	1-3
В		NAILOR/61DH-O	SUPPLY REGISTER	SEE DRAWINGS	-	SEE DRAWINGS	NA	1-2
С		NAILOR/6145H	RETURN GRILLE	SEE DRAWINGS	-	SEE DRAWINGS	NA	1-2
D		TITUS/300	SUPPLY REGISTER	40" x 30"	-	SEE DRAWINGS	NA	1-2

- 1. FOR CONSTRUCTION DETAILS AND ACCESSORIES SEE THE SPECIFICATIONS.
- 2. PROVIDE OPPOSED BLADE DAMPER FOR ALL REGISTERS.
- 3. PROVIDE EQUALIZING GRID FOR ALL DIFFUSERS.

-	2	architects
	M	engineers

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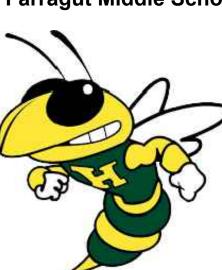
MARK	DATE	DESCRIPTION
	07-23-2021	FINAL BID DOCUMENT



DESIGNED BY: DRAWN		IBY: CAK	CHECKED BY: BMC		REVIEWED BY:	
CAIL		CAIL	DIVIO		ALII	
PROJECT No.:		DATE:		SCALE:		
HHSD 1908	5	JULY	2021	1	AS NOTED	

Hastings-on-Hudson Union Free School **District**

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

CONTRACT M
HEATING VENTILATION AND AIR CONDITIONING

FINAL BID SET

HVAC HVAC SCHEDULES

MA 600.00

	ABBREVIATIONS	LE	GEND
AFF	ABOVE FINISHED FLOOR	SYMBOL	DESCRIPTION
вти	BRITISH THERMAL UNIT	(·)	PIPING UP
втин	BTU PER HOUR	<u> </u>	PIPING DOWN
CLG	CEILING		PIPING RISE OR DROP
со	CLEAN OUT		BRANCH-TOP CONNECTION
CODP	CLEAN OUT DECK PLATE	<u> </u>	BRANCH-BOTTOM CONNECTION
COWP	CLEAN OUT WALL PLATE		REDUCER
cw	COLD WATER		CLEANOUT
(D)	DEMOLISH	<u> </u>	FLOOR CLEANOUT
DCV	DOUBLE CHECK VALVE DEVICE		CAPPED PIPE
DEG.	° FAHRENHEIT		
F DIA	DIAMETER	(M)	METER
DN	DOWN		FLOOR DRAIN
(E)	EXISTING	Y	AQUASTAT
EA	EACH		PUMP
FAI	FRESH AIR INTAKE		STRAINER
FD	FLOOR DRAIN		UNION
G	GAS		THERMOSTATIC MIXING VALVE
'GC'	GENERAL CONSTRUCTION CONTRACTOR		BALANCING VALVE (BLV)
GPM	GALLONS PER MINUTE		GLOBE VALVE (GLV)
GPH	GALLONS PER HOUR		CHECK VALVE (CV)
'H'			GAS COCK, GAS STOP
	HVAC CONTRACTOR	——-ю——	BALL VALVE (BV)
HP	HORSEPOWER	φ	BUTTERFLY VALVE (BFV)
HW	HOT WATER	\$ <u></u>	SOLENOID VALVE
HWR	HOT WATER RETURN		PRESSURE-REDUCING VALVE (PRV)
IN. IN. W.C.	INCHES INCHES WATER COLUMN (WATER GAUGE)	\longrightarrow	GATE VALVE (GV)
(W.G.)	<u> </u>	──>	PRESSURE-RELIEF VALVE (RV)
KW	POUNDS	-M**-W-	BACKFLOW PREVENTER
LBS		*+	FROST FREE HOSE BIBB
M	METER		HOSE BIBB
MAX	MAXIMUM	\[\pm \]	RECESSED-BOX HOSE BIBB OR WALL HYDRANT
MIN	MINIMUM		EXPANSION JOINT
NTS	NOT TO SCALE		WATER HAMMER ARRESTER
OD	OUTER DIAMETER	HDO	VALVE IN RISER
(P)	PROPOSED	CO Z	WALL CLEANOUT (WCO)
'P'	PLUMBING CONTRACTOR	→	PITCH DOWN OR UP IN DIRECTION
PD	PRESSURE DROP		OF ARROW FLOW IN DIRECTION OF ARROW
RD	ROOF DRAIN		COLD WATER (CW)
RPM	REVOLUTIONS PER MINUTE		TEMPERED WATER (TW)
RPZ	REDUCED PRESSURE ZONE		HOT WATER (HW)
SAN/S	SANITARY		TEMPERED WATER RETURN (TWR)
ST	STORM DRAIN		HOT WATER RETURN (HWR)
TEMP	TEMPERATURE		
ТҮР	TYPICAL		WASTE PIPING (W,S,OW)
TW	TEMPERED WATER (110°F)		BELOW SLAB WASTE PIPING
TWR	TEMPERED WATER RETURN		VENT PIPING (V)
V	VENT	.////	GAS PIPING (G)
VTR	VENT THROUGH ROOF	<i></i>	PIPING / EQUIPMENT TO BE REMOVED
W	WASTE		POINT OF CONNECTION
		—	POINT OF DISCONNECTION

PLUMBING NOTES

- ALL FAUCETS, FITTINGS, AND VALVES MUST COMPLY WITH NSF 61 AND ANSI / NSF 372 FOR LOW LEAD PERCENTAGE
- CONTRACTOR SHALL BE RESPONSIBLE TO DEMONSTRATE COMPLIANCE WITH THE NYS DEPARTMENT OF HEALTH LEAD IN WATER REGULATION (10 NYCRR 67-4).
- AT THE CONCLUSION OF NEW PLUMBING WORK, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE SERVICES OF A THIRD PARTY NYS LICENSED ENVIRONMENTAL TESTING LABORATORY TO PROVIDE LEAD TESTING AT ALL NEW LAVATORIES, SINKS, DRINKING FOUNTAINS AND ALL OTHER FIXTURES WHERE WATER MAY BE CONSUMED FOR DRINKING. TWO COPIES OF THE REPORT MUST BE SUBMITTED, ONE COPY TO THE ENGINEER AND THE OTHER ONE TO THE OWNER.

GENERAL PLUMBING NOTES

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF BIDS.
- PERFORM ALL WORK IN ACCORDANCE WITH THE 2020 NEW YORK STATE PLUMBING (NYSPC), FIRE (NYSFC), MECHANICAL (NYSMC), ENERGY CONSERVATION CONSTRUCTION (NYSECC), AND FUEL GAS (NYSFGC) CODE AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL INSTALLATIONS.
- APPLY FOR AND SECURE ALL REQUIRED PERMITS AND INSPECTIONS AND PAY ALL COSTS FOR THE SAME.
- 6. FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, CONDUIT, ETC.
- DO NOT SCALE DRAWINGS. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE.
- COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURERS REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE, CONTRACTORS INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTORS FABRICATED ITEMS TO ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY EQUIPMENT.
- MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.
- 1. PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR EQUIPMENT IS REQUIRED.
- 12. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING AND **EQUIPMENT INSTALLATION REQUIREMENTS.**
- LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE MANUFACTURER CERTIFIED ACCURACY.
- COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.
- 15. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.
- 16. COMPLETE ALL PRESSURE TESTS BEFORE ANY PLUMBING EQUIPMENT, OR PIPING INSULATION IS APPLIED.
- 17. MAKE ALL ATTACHMENTS TO JOISTS. TRUSSES. OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
- 18. PROVIDE CONCRETE PADS A MINIMUM OF 4 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4 INCHES BEYOND THE EQUIPMENT ON ALL SIDES.
- 19. INSTALL PIPING, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- 20. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ACCESSIBLE FIXTURES. MOUNT ALL SUCH FIXTURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 21. PROVIDE ACCESS DOORS IN WALLS, PARTITIONS, AND CEILINGS AS REQUIRED TO MAKE VALVES, WATER HAMMER ARRESTERS, ETC. READILY ACCESSIBLE.
- 22. ARRANGE FOR, COORDINATE, AND MAKE CONNECTION TO ALL SERVICES PROVIDED BY OTHERS. CONFORM TO ALL REQUIREMENTS APPLICABLE TO CONNECTIONS IMPOSED BY UTILITY COMPANIES AND AUTHORITIES HAVING
- 23. INSTALL FIXTURES AND EQUIPMENT WITH VALVES, UNIONS, ETC. TO ALLOW FOR EASE OF SERVICE AND/OR REMOVAL.
- 24. CORE DRILL ALL PENETRATIONS THROUGH CONCRETE FLOORS, WALLS, AND FOOTINGS.
- 25. INSTALL LINK SEAL TYPE PROTECTION FOR WATER RESISTANT SEALS AT ALL SLAB AND BELOW GROUND WALL FOOTING
- 26. PROVIDE A CLEANOUT AT THE BASE OF WASTE AND VENT STACKS WITH FINISHED WALL PLATE IN FINISHED WALLS.
- 27. FURNISH AND INSTALL WATER PRESSURE REDUCING VALVE AND PRESSURE RELIEF VALVE IN ACCORDANCE WITH THE NEW YORK STATE PLUMBING CODE ON ALL INCOMING DOMESTIC WATER SYSTEMS IN EXCESS OF 80 P.S.I.G.
- 28. COVER ALL COPPER PIPING BELOW SLAB WITH "ARMAFLEX" TYPE INSULATION.
- 29. SLOPE ALL VENT PIPING TO DRAIN BACK TO THE DRAINAGE SYSTEM.

INTERNATIONAL PLUMBING CODE.

- 30. FLUSH AND DISINFECT ALL DOMESTIC POTABLE WATER PIPING AND TEST THE WATER IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE. PROVIDE CERTIFICATE OF PERFORMANCE AND LABORATORY TEST REPORT TO LOCAL AUTHORITIES HAVING JURISDICTION AND OBTAIN THEIR APPROVAL.
- 31. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING FIXTURE VALVE LOCATIONS.
- 32. ALL PIPING, VALVES AND FITTINGS USED FOR POTABLE WATER SHALL BE NSF 61/372 COMPLIANT AND BE TESTED FOR
- 33. ANY PENETRATIONS THROUGH AIR BARRIER SHALL BE SEALED AS PER 2020 NYSECC RESIDENTIAL AND COMMERCIAL
- 34. ALL PIPING IN PLENUM SPACES SHALL BE CAST IRON FOR SANITARY, STORM, VENT SYSTEMS, AND COPPER PIPING FOR DOMESTIC SYSTEMS, AND STEEL PIPING FOR GAS SYSTEMS. NO PLASTIC PIPING ALLOWED.
- 35. HOT WATER TEMPERATURE FOR ALL PUBLIC HAND WASHING FIXTURES SHALL BE TEMPERED TO A MAXIMUM TEMPERATURE OF 110 DEGREES F.
- 36. ALL FIXTURES SHALL MEET THE WATER CONSERVATION REQUIREMENTS LISTED IN THE TABLE 604.4 OF THE 2020
- ALL FIXTURES THAT HAS THE ABILITY TO HAVE A HOSE CONNECTED TO IT, OR DIRECT CONNECTED FIXTURES, SHALL HAVE A BACKFLOW PREVENTION DEVICE ON THE FAUCET, VACUUM BREAKER (ASSE 1052 AND ASME A112.21.3).
- 38. ALL SANITARY FITTINGS SHALL BE 'WYE' TYPE AND SHALL FOLLOW THE DIRECTION OF FLOW.

PLUMBING FIXTURES

								MINIMUM CONNECTION SIZES (IN)						
FIXTURE NO.	DESCRIPTION	COLD	WATER	нот w	/ATER	DR	AIN	v						
		SIZE	FU	SIZE	FU	SIZE	DFU	v						
LAV-1	LAVATORY - WALL MOUNTED - BARRIER FREE		1.5	1/2	1.5	1-1/2	1	1-1/2						
FD-1	FLOOR DRAIN - SEE NOTE 3		-	-	-	3	2	2						
HB-1	HOSE BIBB - INTERIOR WITH KEY		-	-	-	-	-	-						

NOTES:

1. CHROME PLATE ALL DRAIN PIPE, FITTINGS, P-TRAPS AND SUPPLY LINES THAT ARE EXPOSED, LOCATED WITHIN VANITIES OR ACCESSIBLE CABINETS OR BEHIND WATER CLOSETS

2. MINIMUM CONNECTION SIZES INDICATED ARE EQUIPMENT CONNECTION SIZES OR CODE MINIMUM SIZES, SEE PLANS AND DIAGRAMS FOR ACTUAL SIZES REQUIRED

3. ALL FLOOR DRAINS SHALL HAVE A TRAP GUARD.

INSULATE EXPOSED DRAIN AND SUPPLY PIPING FOR HANDICAPPED FIXTURES WITH TRUEBRO LAV GUARD.

CONTRACT 'P' NOTES

- FURNISH ALL SLEEVES FOR PIPE AND CONDUIT FLOOR, WALL, PARTITION, AND ROOF PENETRATIONS FOR INSTALLATION
- 2. PERFORM ALL CUTTING AND ROUGH PATCHING AS REQUIRED IN THE EXECUTION OF THE WORK. FINISH PATCHING AND FLASHING IS PART OF CONTRACT 'G'.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR MOTOR STARTERS FOR ALL MOTORS INCLUDED IN THIS CONTRACT UNLESS NOTED OTHERWISE. ALL STARTERS SHALL BE SIZED TO MATCH MOTOR HORSE POWER.

APPLICABLE CODES

- 2020 NEW YORK STATE RESIDENTIAL CODE (NYSRC) 1ST PRINTING (INCLUDES PLUMBING, MECHANICAL, FUEL GAS, AND
- **ENERGY CONSERVATION)**
- 2020 NEW YORK STATE BUILDING CODE (NYSBC) 1ST PRINTING
- 2020 NEW YORK STATE FIRE CODE (NYSFC) 1ST PRINTING
- 2020 NEW YORK STATE PLUMBING CODE (NYSPC) 1ST PRINTING 2020 NEW YORK STATE FUEL GAS CODE (NYSFGC) 1ST PRINTING
- 2020 NEW YORK STATE MECHANICAL CODE (NYSMC) 1ST PRINTING
- 2020 NEW YORK STATE ENERGY CONSERVATION CODE (NYSECC) 1ST PRINTING

ENERGY NOTES

2020 NEW YORK STATE ENERGY CONSERVATION CODE NOTES: STATEMENT OF COMPLIANCE:

TO THE BEST OF MY KNOWLEDGE, AND PERSONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK STATE ENERGY CONSERVATION CODE (NYSECC).

- 1. SERVICE WATER HEATING EQUIPMENT PERFORMANCE EFFICIENCY:
- 1.1. WATER HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE C404.2 IN THE 2020 NYSECC. (NYSECC C404.2)
- SERVICE WATER HEATING SHALL BE COMMISSIONED AND COMPLETED IN ACCORDANCE WITH SECTION C408.2 OF
- 2. TEMPERATURE CONTROL:
- SERVICE WATER HEATING EQUIPMENT SHALL BE PROVIDED WITH CONTROLS ALLOWING A SETPOINT OF 110°F FOR DWELLING UNITS AND 90 °F FOR OTHER OCCUPANCIES. PUBLIC REST ROOM LAVATORIES SHALL HAVE A MAXIMUM
 - WHERE WATER HEATING EQUIPMENT SERVING NONCIRCULATING SYSTEMS IS NOT SUPPLIED WITH INTEGRAL HEAT TRAPS, HEAT TRAPS SHALL BE PROVIDED ON THE SUPPLY AND DISCHARGE PIPING. (NYSECC C404.3)

3. PIPE INSULATION:

- 3.1. AUTOMATIC CIRCULATING HOT WATER SYSTEM PIPING SHALL BE INSULATED WITH 1 INCH OF INSULATION WITH A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/H X FT X FT X °F, OR THE INSULATION REQUIREMENTS OF SPECIFICATIONS, WHICHEVER IS GREATER. THE FIRST 8 FT OF PIPING IN NONCIRCULATING SYSTEMS WITH EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS SHALL BE INSULATED WITH 0.5 INCH OF MATERIAL HAVING A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/H X FT X FT X °F, OR THE INSULATION REQUIREMENTS OF
- SPECIFICATIONS, WHICHEVER IS GREATER. (NYSECC C404.5) ALL PIPING TO BE INSULATED WITH 0.21-0.28 CONDUCTIVITY
- COLD WATER PIPING ALL SIZES 1-INCH INSULATION, A.S. JACKET.
- STORM DRAINAGE PIPING ALL HORIZONTAL RUNS AND DRAIN BODY MINIMUM 1-INCH INSULATION, A.S. JACKET. HOT WATER PIPING (140°F) AND TEMPERED WATER PIPING (110°F)
- PIPE SIZE: < 1" INSULATION: 1"
- PIPE SIZE: 1" TO < 1-1/2" INSULATION: 1"
- PIPE SIZE: 1-1/2 TO < 4" INSULATION: 1.5"
- PIPE SIZE: 4" TO < 8" INSULATION: 1.5"

4. HOT WATER SYSTEM CONTROLS:

4.1. CIRCULATING HOT WATER SYSTEM PUMPS OR HEAT TRACE SHALL BE ARRANGED TO BE TURNED OFF EITHER AUTOMATICALLY OR MANUALLY WHEN THERE IS LIMITED HOT WATER DEMAND. READY ACCESS SHALL BE PROVIDED TO THE OPERATING CONTROLS. (NYSECC C404.6)

5. PIPE VOLUME AND MAXIMUM LENGTHS

PER SECTION OF C404.5.1 OF THE 2020 NYSECC, ALL MAXIMUM PIPE LENGTHS FROM FIXTURES SHALL COMPLY WITH THE MAXIMUM PIPE LENGTHS ON THE CHART BELOW. CONTRACTOR TO ENSURE HOT WATER RETURN PIPING IS INSTALLED AS PER PLANS AND THAT THESE LENGTHS ARE MAINTAINED.

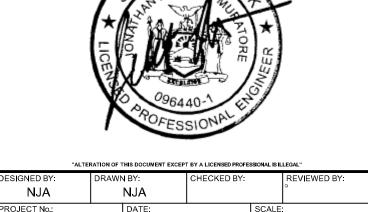
NOMINAL PIPE SIZE	VOLUME (LIQUID OUNCES PER	MAXIMUM PIPING LENGTH (FEET)				
(INCHES)	FOOT LENGTH)	PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES			
1/4"	0.33	6	50			
5/16"	0.5	4	50			
3/8"	0.75	3	50			
1/2"	1.5	2	43			
5/8"	2	1	32			
3/4"	3	0.5	21			
7/8"	4	0.5	16			
1"	5	0.5	13			
1-1/4"	8	0.5	8			
1-1/2"	11	0.5	6			
2" OR LARGER	18	0.5	4			



engineers

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MARK	DATE	DESCRIPTION
	07-23-2021	FINAL BID DOCUMENT



JULY 2021

AS NOTED

HHSD 1905

Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

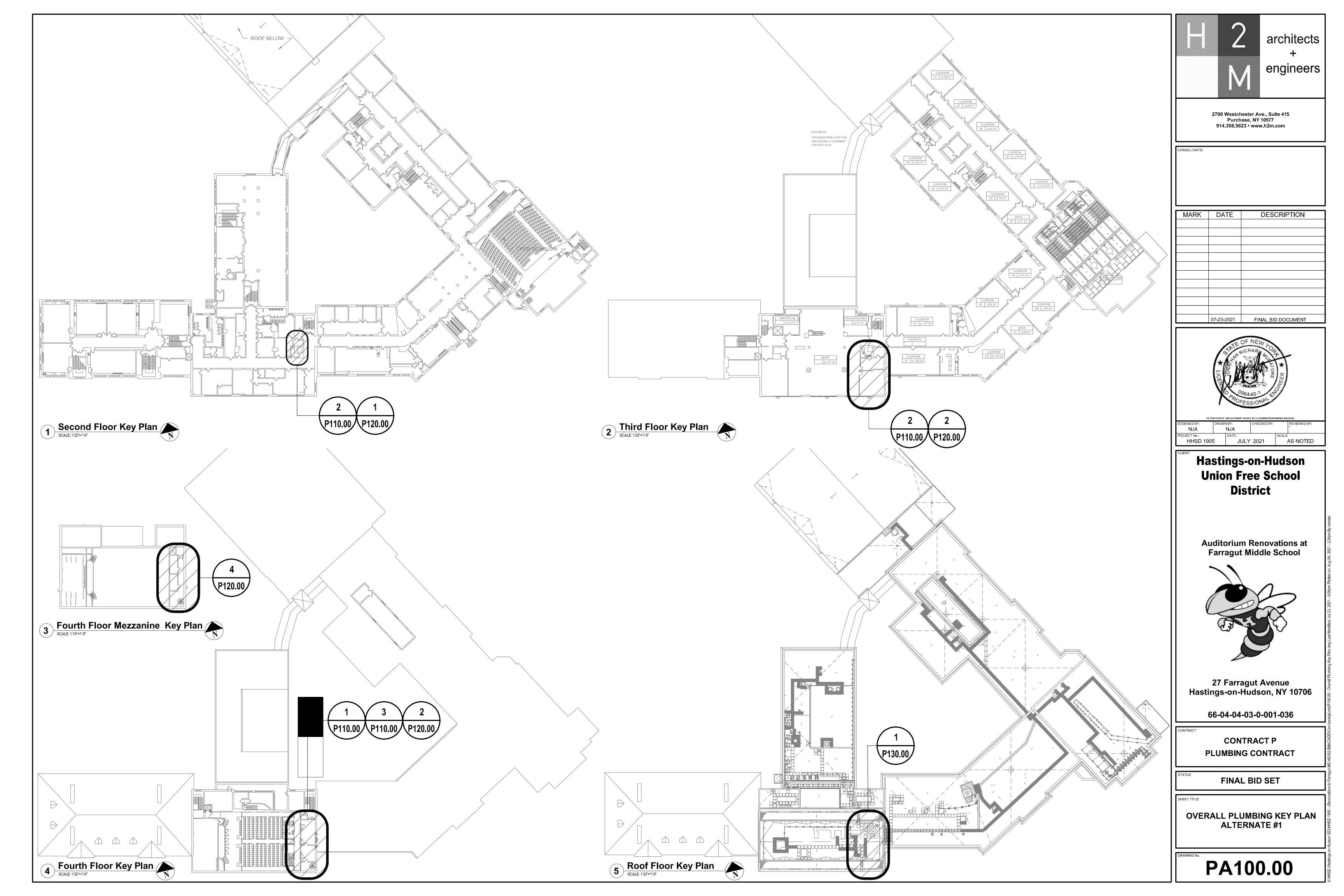
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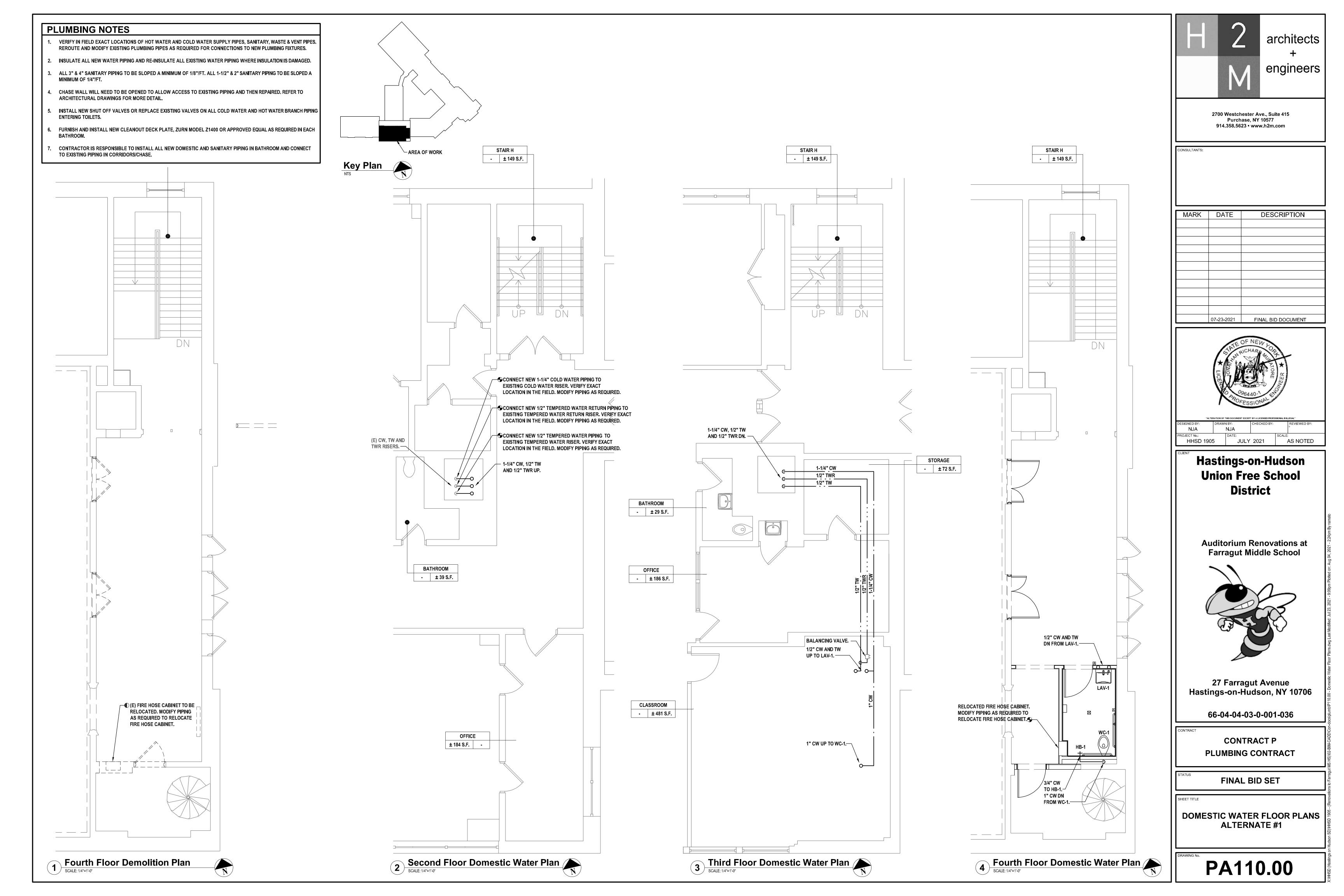
CONTRACT P PLUMBING CONTRACT

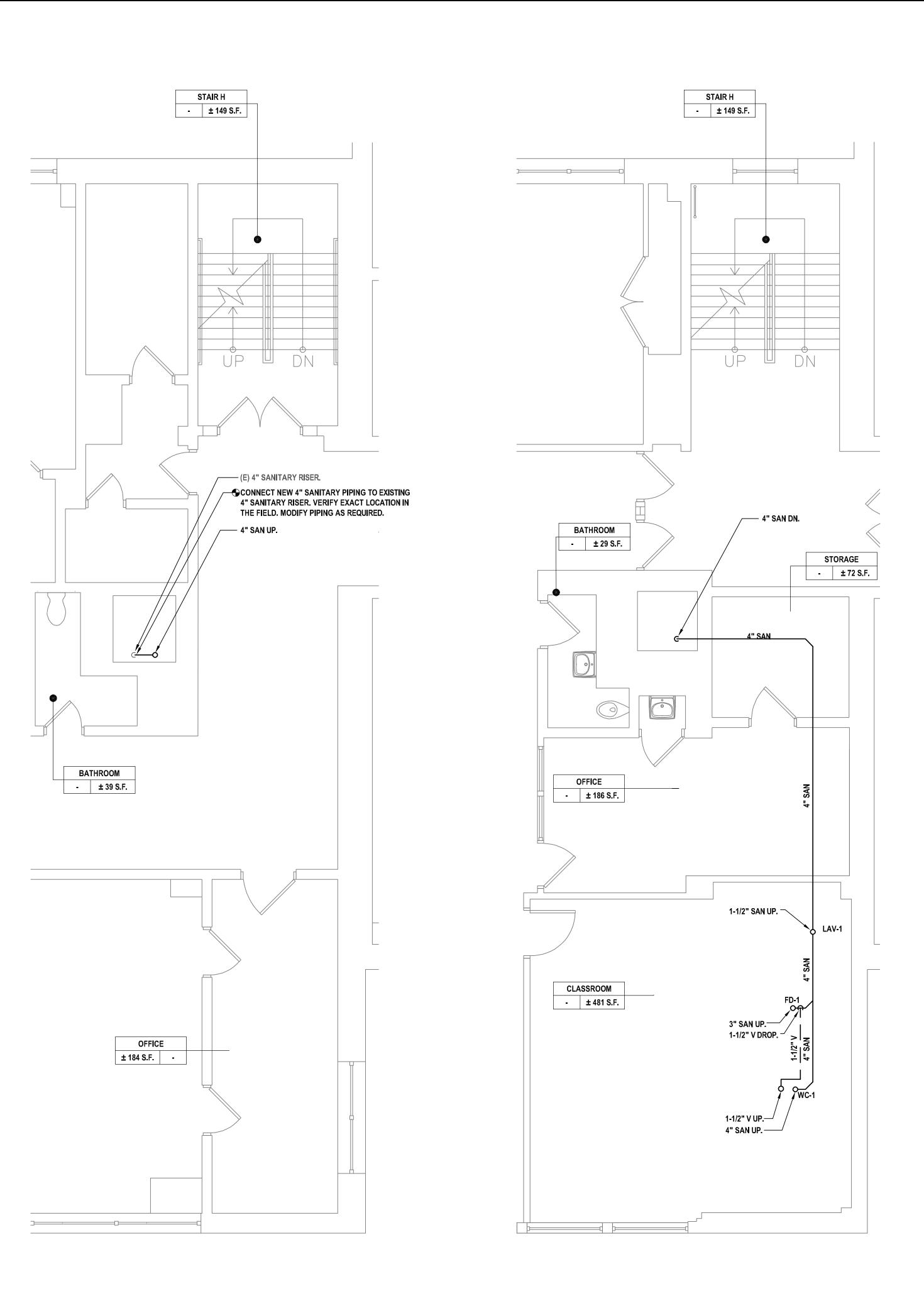
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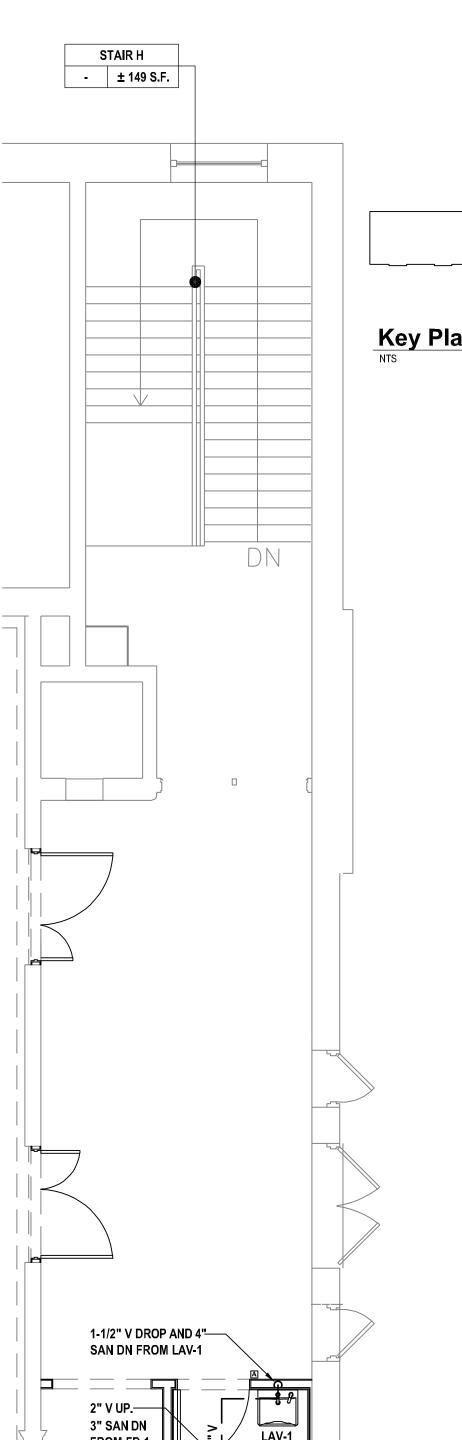
PLUMBING GENERAL NOTES, LEGENDS, AND SCHEDULES **ALTERNATE #1**

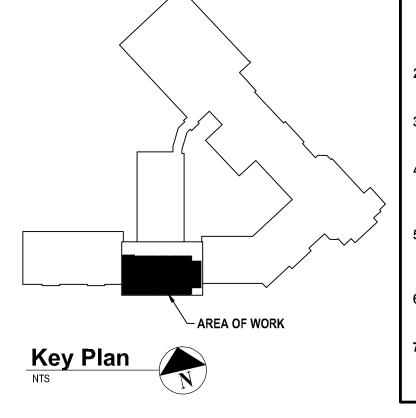
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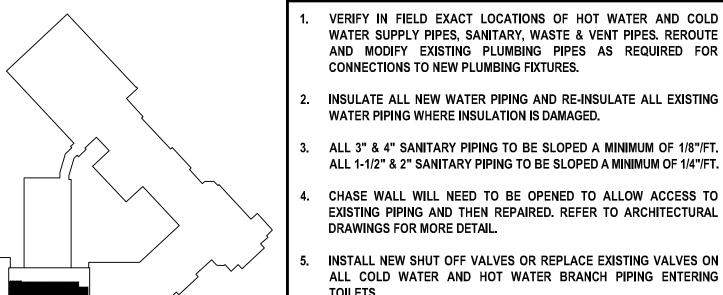












AND MODIFY EXISTING PLUMBING PIPES AS REQUIRED FOR CONNECTIONS TO NEW PLUMBING FIXTURES. INSULATE ALL NEW WATER PIPING AND RE-INSULATE ALL EXISTING WATER PIPING WHERE INSULATION IS DAMAGED.

PLUMBING NOTES

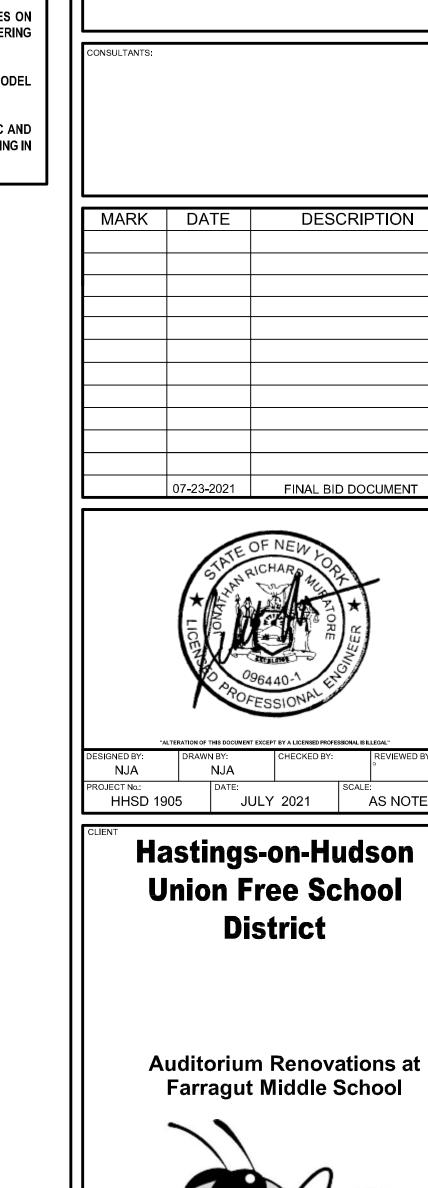
ALL 3" & 4" SANITARY PIPING TO BE SLOPED A MINIMUM OF 1/8"/FT. ALL 1-1/2" & 2" SANITARY PIPING TO BE SLOPED A MINIMUM OF 1/4"/FT.

CHASE WALL WILL NEED TO BE OPENED TO ALLOW ACCESS TO EXISTING PIPING AND THEN REPAIRED. REFER TO ARCHITECTURAL

INSTALL NEW SHUT OFF VALVES OR REPLACE EXISTING VALVES ON ALL COLD WATER AND HOT WATER BRANCH PIPING ENTERING

FURNISH AND INSTALL NEW CLEANOUT DECK PLATE, ZURN MODEL Z1400 OR APPROVED EQUAL AS REQUIRED IN EACH BATHROOM.

CONTRACTOR IS RESPONSIBLE TO INSTALL ALL NEW DOMESTIC AND SANITARY PIPING IN BATHROOM AND CONNECT TO EXISTING PIPING IN CORRIDORS/CHASE.



Hastings-on-Hudson Union Free School

Auditorium Renovations at

AS NOTED

engineers

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Purchase, NY 10577

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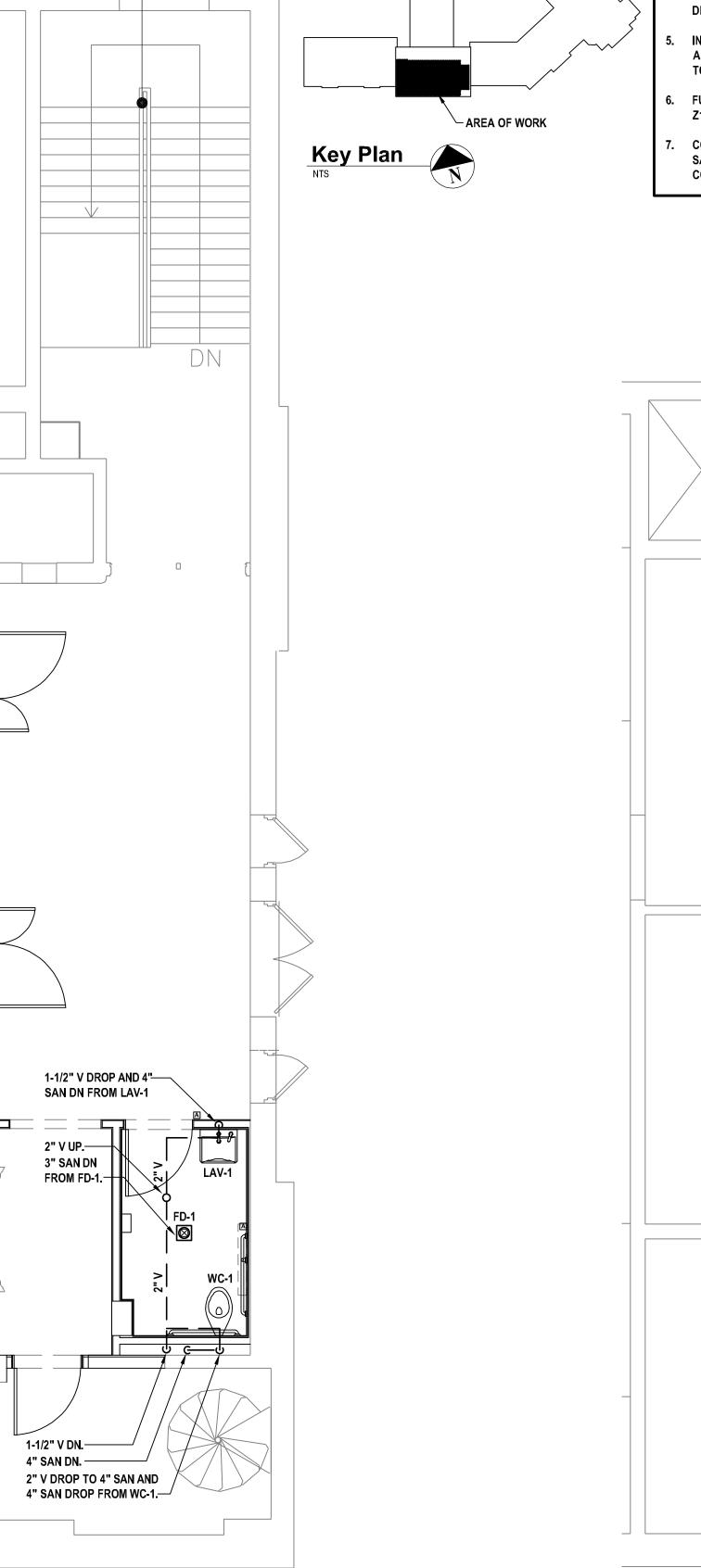
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CONTRACT P PLUMBING CONTRACT

FINAL BID SET

SANITARY AND VENT FLOOR PLANS ALTERNATE #1

PA120.00



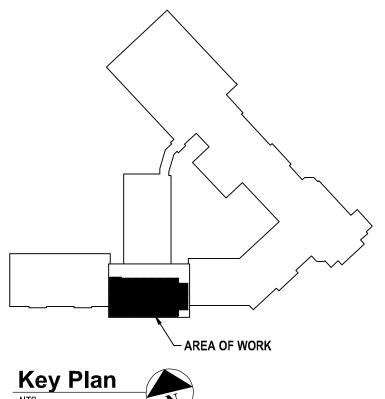


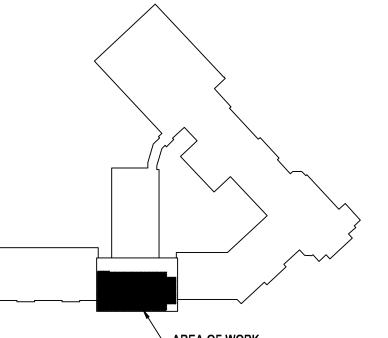
2 Third Floor Sanitary and Vent Plan SCALE: 1/4"=1'-0"







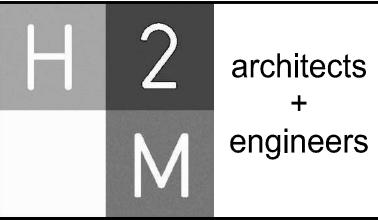




PLUMBING NOTES

VERIFY IN FIELD EXACT LOCATIONS OF HOT WATER AND COLD WATER SUPPLY PIPES, SANITARY, WASTE & VENT PIPES. REROUTE AND MODIFY EXISTING PLUMBING PIPES AS REQUIRED FOR CONNECTIONS TO NEW PLUMBING FIXTURES.

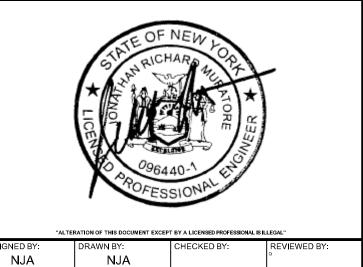
- INSULATE ALL NEW WATER PIPING AND RE-INSULATE ALL EXISTING WATER PIPING WHERE INSULATION IS DAMAGED.
- ALL 3" & 4" SANITARY PIPING TO BE SLOPED A MINIMUM OF 1/8"/FT. ALL 1-1/2" & 2" SANITARY PIPING TO BE SLOPED A MINIMUM OF 1/4"/FT.
- CHASE WALL WILL NEED TO BE OPENED TO ALLOW ACCESS TO EXISTING PIPING AND THEN REPAIRED. REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAIL.
- INSTALL NEW SHUT OFF VALVES OR REPLACE EXISTING VALVES ON ALL COLD WATER AND HOT WATER BRANCH PIPING ENTERING
- FURNISH AND INSTALL NEW CLEANOUT DECK PLATE, ZURN MODEL Z1400 OR APPROVED EQUAL AS REQUIRED IN EACH BATHROOM.
- CONTRACTOR IS RESPONSIBLE TO INSTALL ALL NEW DOMESTIC AND SANITARY PIPING IN BATHROOM AND CONNECT TO EXISTING PIPING IN CORRIDORS/CHASE.



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Hastings-on-Hudson Union Free School District

JULY 2021

AS NOTED

HHSD 1905

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

CONTRACT P PLUMBING CONTRACT

FINAL BID SET

PLUMBING ROOF PLAN ALTERNATE #1

PA130.00

1 Plumbing Roof Plan
SCALE: 1/4"=1'-0"

3" VTR O

-

HANGER SPACING				
PIPING MATERIAL	MAX. HORIZONTAL (FT)	MAX. VERTICAL (FT)		
ABS PIPE	4	10		
ALUMINUM TUBING	10	15		
BRASS PIPE	10	10		
CAST-IRON PIPE	5	15		
COPPER OR COPPER ALLOY PIPE	12	10		
COPPER OR COPPER ALLOY PIPE 1¼"Ø OR SMALLER	6	10		
COPPER OR COPPER ALLOY PIPE 1½"Ø OR LARGER	10	10		
PEX	2.67	10		
CPVC 1" OR SMALLER	3	10		
CPVC 1-1/4" OR LARGER	4	10		
STEEL PIPE	12	15		
POLYETHYLENE /ALUMINUM/ POLYETHYLENE	2.67	4		
PVC PIPE	4	10		
STAINLESS STEEL DRAINAGE	10	10		

	UP TO 2"	3/8" DIA.	4" THRU 5"	5/8" DIA.	
	2 1/2" THRU 3"	1/2" DIA			
HEAVY DUTY CLEVIS HANGE	R	— HANGER ROD — LOCKING NUT — SUPPORT NUT	HEAVY DUTY CLEVIS HANGER		HANGER ROD LOCKING NUT SUPPORT NUT
PIPE —			PIPE —		VAPOR BARRIER INSULATION
	INSULATION WHEI SPECIFIED SHALL AGAINST PIPE HA	BUT UP		16 GAUGE ZIN SHEET STEEL AT LEAST 12'	. SADDLE

PIPE SIZE

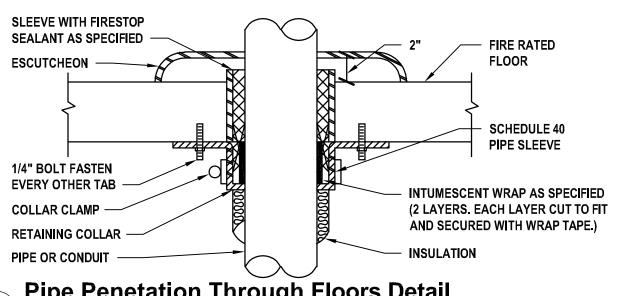
ROD SIZE

HANGER ROD SCHEDULE

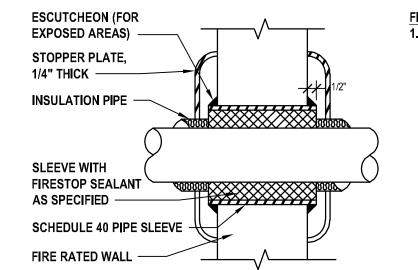
ROD SIZE

PIPE SIZE





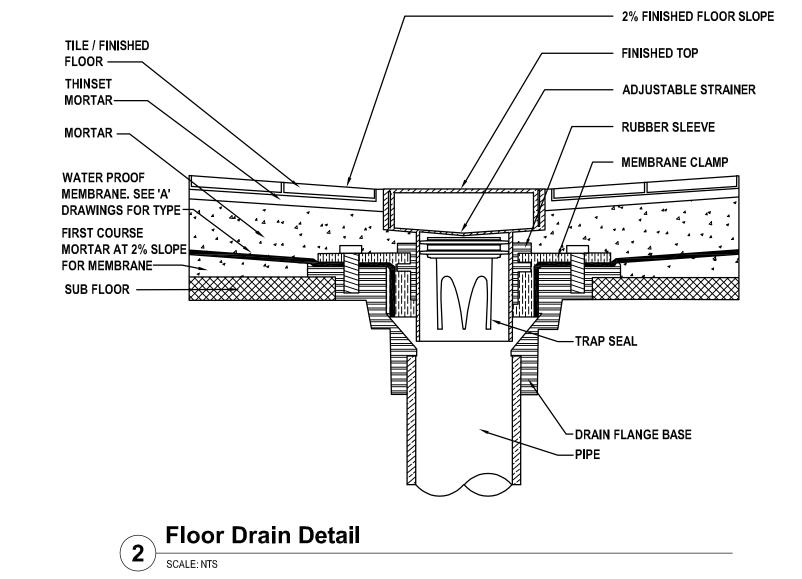
Pipe Penetation Through Floors Detail



CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT PENETRATIONS ARE PROPERLY FIRE STOPPED WITH THE FOLLOWING:

- 1.A. THE FIRE STOPPING SYSTEM AND COMPONENTS SHALL BE AS MANUFACTURED BY 3M. NO SUBSTITUTIONS SHALL BE PERMITTED.
- 1.B. METAL PIPES OR CONDUIT THROUGH BLOCK WALL SHALL USE UL SYSTEM NO. CAJ1044 AND 3M PRODUCT CP25 WB & CAULK
- 1.C. METAL PIPES THROUGH GYPSUM WALLS SHALL USE UL SYSTEM NO. WL 1001 AND 3M PRODUCT CP 25 WB & CAULK

Pipe Penetrations Through Fire Rated WallsSCALE: NTS

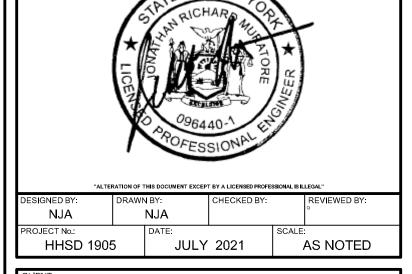


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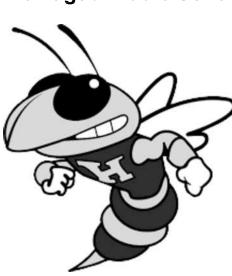
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engineers



Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

CONTRACT P PLUMBING CONTRACT

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PLUMBING DETAILS ALTERNATE #1

PA500.00

	ELECTRICAL LE	EGENDS		
SYMBOL	DESCRIPTION	COMMENTS	ABBREVIATION	
S³	THREE - WAY SWITCH	46" AFF TO CL UON	AFF	А
S4	FOUR - WAY SWITCH	46" AFF TO CL UON	AFC	A
Sı	ILLUMINATED SWITCH	46" AFF TO CL UON	AFCI	A
S ^A	SINGLE POLE SWITCH; "A" INDICATES SWITCH CONTROL	46" AFF TO CL UON	AFG	A
SD Sur	SINGLE POLE DIMMER SWITCH THREE - WAY DIMMER SWITCH	46" AFF TO CL UON 46" AFF TO CL UON	AHJ AMP, A	A
S3D Sk	SINGLE POLE KEYED SWITCH	46" AFF TO CL UON	<u> </u>	A
Sk3	KEYED THREE - WAY SWITCH	46" AFF TO CL UON	ATS	S
Sk4	KEYED FOUR - WAY SWITCH	46" AFF TO CL UON	AWG	A
Sp	SWITCH AND PILOT LIGHT		BFC	В
St	SWITCH WITH THERMAL OVERLOAD PROTECTION (CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE WITH		CL	C
Sos/vs	EQUIPMENT) OCCUPANCY/VACANCY SENSOR WITH MANUAL OVERRIDE, WALL MOUNT		CT E.C.	C
TC	TIME CLOCK		GFCI	G
E,G	EMERGENCY SHUT OFF SWITCH; 'E' INDICATES ELECTRICAL; 'G' INDICATES GAS		GFI	G
			GND	G
	2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN WALL OR CEILING		CONED	C
	3 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN OR BELOW SLAB		MCB	
1200	DEDICATED HOME RUN TO PANEL LP1 FOR CIRCUIT NO. 35 ONLY. 2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN		MLO	M
LP1-35	WALL OR CEILING SIMPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR	FILIOL	N.T.S.	N N
θ-	BASEBOARDS.	FLUSH	TYP	T
⊖	DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	UON	U
₩	QUAD RECEPTACLE, DOUBLE DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL	FLUSH	UC	U
	CONTRACTOR TO CLEAR BASEBOARDS.		V	V
⊕ ^c	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "C" INDICATES CEILING MOUNT.	FLUSH	VAC	V
<u> </u>	DUPLEX RECEPTACLE: 120V, 20A; FLOOR MOUNTED.	FLUSH	VDC	V
(QUAD RECEPTACLE: 120V, 20A; FLOOR MOUNTED.		X-FMR	T
⊕ ▼ _{D/T}	DUPLEX RECEPTACLE AND DATA JACK: 120V, 20A; FLOOR MOUNTED.		WP	W N
▼ _{D/T}	DATA JACK; FLOOR MOUNTED.		N.I.C.	N
⊕ ^{IG}	ISOLATED GROUND DUPLEX RECEPTACLE. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR	FLUSH		
	BASEBOARDS. DUPLEX RECEPTACLE: 120V, 20A; WITH GROUND FAULT INDICATOR. COORDINATE MOUNTING HEIGHT WITH MECHANICAL		SYMBOL	
⊕ GFI	CONTRACTOR TO CLEAR BASEBOARDS.	FLUSH	FACPE	FI
⊕uc	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "UC" INDICATES UNDER COUNTER	AS PER ENGINEER		
€ст	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "CT" INDICATES COUNTER TOP.	AS PER ENGINEER	ES	S
⊕ WP	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "WP" INDICATED WEATHER PROOF.	AS PER ENGINEER	© _{co}	S
-			(S)	S
USB USB	DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "USB" INDICATES INTEGRAL USB.	FLUSH	♣co	С
♥ ⁴⁰ 240	SPECIAL PURPOSE OUTLET: 240V, 40A. VERIFY NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER.	AS PER ENGINEER		Н
⊕ _TL	TWISTED LOCK RECEPTACLE: 125V, 20A, 3 WIRE; UNLESS OTHERWISE NOTED.	AS PER ENGINEER		Н.
	SURFACE RACEWAY WITH 2 GROUNDED AND ISOLATED TYPE DUPLEX RECEPTACLES AND 1 DATA OUTLET PER POSITION,		ă	Н
	18" AFF UNLESS OTHERWISE NOTED.		茶	S
⊠r _{S1}	MAGNETIC STARTER "S1"; SEE STARTER SCHEDULE DISCONNECTION SWITCH "DS1"; SEE DISCONNECT SWITCH SCHEDULE.		F	М
	JUNCTION BOX.			
	NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER.			
4x 	JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE FINISHED CEILING.			
-	MOUNT 18" AFF, UNLESS OTHERWISE NOTED. FOR MONITOR, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE			
\mathbb{O}_{M}	FINISHED CEILING.			
O _{HD}	FOR HAND DRYER, JUNCTION BOX RECESSED IN WALL WITH BLANK COVER. PROVIDE 3/4" E.C. AND DRAG LINE TO ABOVE			
T _{T1}	FINISHED CEILING. COORDINATE MOUNTING HEIGHT WITH ARCHITECT. TRANSFORMER "T1"; SEE TRANSFORMER SCHEDULE.			
	ELECTRICAL PANEL "P1", RECESSED; SEE PANEL SCHEDULE.			
P1				
·/////////////////////////////////////	ELECTRICAL PANEL "P1", SURFACE MOUNT; SEE PANEL SCHEDULE.			
	CONDUIT GOING UP.			
\bigcirc	CONDUIT GOING DOWN.			
	PUBLIC ADDRESS CLOCK/SPEAKER DATA DROP. PROVIDE AND INSTALL CAT 6 CABLE IN 3/4" E.C. TO NEAREST SERVER			
C/S	RACK, PROVIDE AND INSTALL A RJ45 JACK AND FACEPLATE. ALL FINAL TERMINATION TO SERVER RACK BY DISTRICT. COORDINATE ALL ROUTING AND LABELING WITH DISTRICT PRIOR TO INSTALLATION. DATA DROP SHALL BE MOUNTED AT			
U/3	7'-6" AFF, UON. COORDINATE EXACT MOUNTING LOCATION WITH DISTRICT PRIOR TO INSTALLATION. REFER TO DRAWINGS			
	FOR THE NEAREST SERVER RACK LOCATIONS. SMARTBOARD DATA DROP. PROVIDE AND INSTALL CAT 6 CABLE IN 3/4" E.C. TO NEAREST SERVER RACK, PROVIDE AND			
▲ SD	INSTALL A RJ45 JACK AND FACEPLATE. ALL FINAL TERMINATION TO SERVER RACK BY DISTRICT. COORDINATE ALL			
חפ	ROUTING AND LABELING WITH DISTRICT PRIOR TO INSTALLATION. REFER TO DRAWINGS FOR NEAREST SERVER RACK LOCATIONS.			
_	DATA. PROVIDE AND INSTALL CAT 6 CABLE IN 3/4" E.C. TO NEAREST SERVER RACK, PROVIDE AND INSTALL A RJ45 JACK			
D	AND FACEPLATE. ALL FINAL TERMINATION TO SERVER RACK BY DISTRICT. COORDINATE ALL ROUTING AND LABELING WITH DISTRICT PRIOR TO INSTALLATION. REFER TO DRAWINGS FOR NEAREST SERVER RACK LOCATIONS.			
	PUBLIC ADDRESS SPEAKER. PROVIDE AND INSTALL CAT 6 CABLE IN 3/4" E.C. TO NEAREST SERVER RACK, PROVIDE AND			
≜ S	INSTALL A RJ45 JACK AND FACEPLATE. ALL FINAL TERMINATION TO SERVER RACK BY DISTRICT. DATA DROP SHALL BE MOUNTED AT 7'-6" AFF, UON. COORDINATE ALL ROUTING AND LABELING WITH DISTRICT PRIOR TO INSTALLATION. REFER			
-	TO DRAWINGS FOR NEAREST SERVER RACK LOCATIONS.			

DESCRIPTION

AUTOMATIC TRANSFER SWITCH; SEE TRANSFER SWITCH

ABOVE FINISHED FLOOR ABOVE FINISHED CEILING

ABOVE FINISHED GRADE

AMERICAN WIRE GAUGE BELOW FINISHED CEILING

ELECTRICAL CONDUIT

GROUND FAULT INDICATOR

MAIN CIRCUIT BREAKER

UNLESS OTHERWISE NOTED

VOLTS ALTERNATING CURRENT

FIRE ALARM CONTROL PANEL (EXISTING)

SMOKE DETECTOR WITH CO BASE (NEW)

CARBON MONOXIDE DETECTOR (NEW)

MANUAL PULL STATION WITH BACKBOX (NEW)

HORN/STROBE COMBO (EXISTING)

HORN/STROBE COMBO (NEW)

STROBE (NEW)

SMOKE DETECTOR (EXISTING)

SMOKE DETECTOR (NEW)

FIRE ALARM LEGEND

DESCRIPTION

VOLTS DIRECT CURRENT

MAIN LUGS ONLY NOT TO SCALE

UNDER COUNTER

TRANSFORMER

WEATHERPROOF

NOT IN CONTRACT

TYPICAL

SCHEDULE

CENTERLINE COUNTER TOP

ARC FAULT CIRCUIT INTERRUPTER

AUTHORITY HAVING JURISDICTION

GROUND FAULT CIRCUIT INTERRUPTER

CON EDISION (LOCAL ELECTRIC UTILITY)

COMMENTS

100AF 100AT

25

RACK OUT CIRCUIT BREAKER

 $\frac{1}{1}$ - + - $\frac{1}{1}$ FVR | FULL VOLTAGE REVERSING STARTER, NEMA SIZE 5

MULTIPLE BRANCH CIRCUITS AS REQUIRED.

— — CONTROL CIRCUIT; MIN 2 #12 AWG IN ¾" E.C.

COMMENTS

REDUCED VOLTAGE SOLID STATE RAMPING MODULE, SIZED FOR 10 H.P.

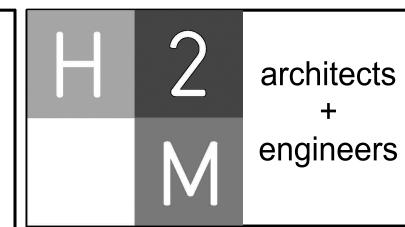
REDUCED VOLTAGE SOLID STATE STARTER, SIZED FOR 150 H.P.

VARIABLE FREQUENCY DRIVE, RATED FOR 25 H.P.

FULL VOLTAGE NON-REVERSING STARTER, NEMA SIZE 6

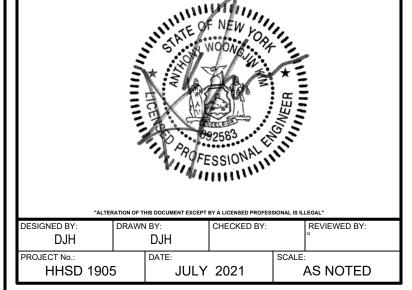
FAST ACTING SOLID STATE FUSES AS PER MANUFACTURER.

	SINGLE LINE DIAGRAM LEGEND			LIST OF	DRAWINGS	
SYMBOL	DESCRIPTION COMMENTS		EA 001			
(T)	LINE VOLTAGE THERMOSTAT, 120V, 10A.		EDA 100	ELECTRICAL AUDITORIUM		
100AF 100AT	CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP.		EA 100 EA 101 EA 102 EA 200	ELECTRICAL PARTIAL FLO	I POWER AND AUDIO/VISUAL PLAN OORS POWER AND HVAC PLANS I LIGHTING AND FIRE ALARM PLANS I AUDIO/VISUAL DETAIL	
ATS1	TRANSFER SWITCH 'TS1'; SEE TRANSFER SWITCH SCHEDULE.		EA 201 EA 300	ELECTRICAL AUDITORIUM ELECTRICAL PANEL SCHE	PRODUCTION LIGHTING DETAIL DULE AND DETAILS	
PANEL "P1"	DISTRIBUTION PANEL P1 WITH 30A, 2 POLE M.C.B.; SEE DISTRIBUTION PANEL SCHEDULE.			SYMBOL 100	ROOM DESIGNATION BUILDING SECTION CUT	
100AS	UNFUSED DISCONNECT SWITCH DS1, 100 AMP; SEE DISCONNECT SWITCH SCHEDULE.			A2.2 5 A2.2	WALL SECTION CUT	
DS1 100AS 100AF	FUSED DISCONNECT SWITCH 'DSI', FUSED AT 100 AMP SIZE, 100 AMP FUSED, 3 POLES; SEE DISCONNECT SWITCH SCHEDULE.			5 A22	DETAIL KEY ELEVATION KEY	
G	GENERATOR SET 'G'			——————————————————————————————————————	COLUMN GRID	
M	ELECTRIC METER AND METER PAN AS PER PSEG REQUIREMENTS.			— •	ELEVATION LINE	
5HP	MOTOR, NUMBER INDICATES HORSEPOWER.			itle	DRAWING TITLE	
стѕ	CURRENT TRANSFORMERS.		sc.	ALE:		
→ ← pts	VOLTAGE TRANSFORMERS.			$3 \underbrace{\begin{array}{c} 5 \\ A2.2 \end{array}} 1$	INTERIOR ELEVATION REFERENCE	
UPS	UNINTERRUPTIBLE POWER SUPPLY			#	SEE NOTE # ON DWG #	
120/208V T2	TRANSFORMER 'T2' WITH SIZE, PRIMARY AND SECONDARY VOLTAGES AS NOTED.				ON DIVIG #	



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Hastings-on-Hudson Union Free School **District**

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

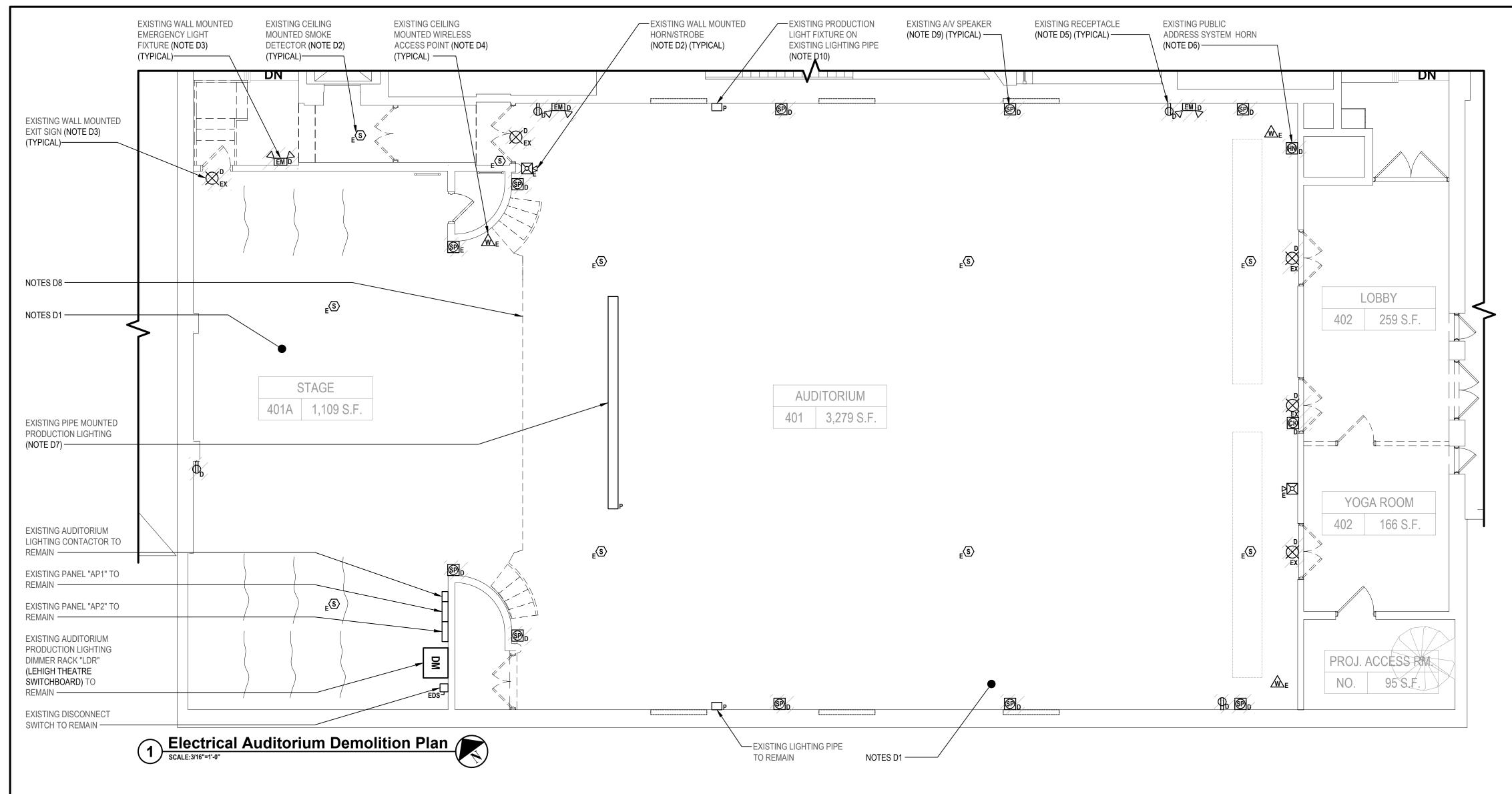
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CONTRACT E ELECTRICAL CONSTRUCTION

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ELECTRICAL LEGENDS

EA 001.00



LEGEND

- REMOVE AND DISPOSE OF ITEM IDENTIFIED, U.O.N.

ELECTRICAL GENERAL DEMOLITION NOTES:

- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
- GD4. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING/RELOCATING ANY NEW/EXISTING DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.
- GD5. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED WIRE AND CONDUIT, AND BACK BOXES BACK TO SOURCE. CONTRACTOR SHALL PATCH AND PRIME TO MATCH EXISTING WALL.

ELECTRICAL DEMOLITION KEY NOTES:

- D1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO BALLAST, BULBS, HOUSING, ASSOCIATED SWITCHES AND ALL WIRE AND CONDUIT BACK TO SOURCE.
- D2. CONTRACTOR SHALL PROTECT ALL EXISTING FIRE ALARM DEVICES SCHEDULED TO REMAIN DURING ACTIVE DEMOLITION AND CONSTRUCTION IN ACCORDANCE WITH SPECIFICATIONS. ONCE DEMOLITION AND CONSTRUCTIONS HAS BEEN COMPLETED, CONTRACTOR SHALL CLEAN AND REINSTALL/RELOCATE EXISTING FIRE ALARM DEVICES TO LOCATION SHOWN ON DRAWING EA 102. PROVIDE AND EXTEND WIRE AND CONDUIT AS REQUIRED. PROVIDE PROGRAMMING TO THE EXISTING FIRE ALARM SYSTEM AS REQUIRED.
- D3. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WALL MOUNTED EMERGENCY LIGHT FIXTURE AND EXIT SIGNS AND ALL ASSOCIATED ACCESSORIES INCLUDING BUT NOT LIMITED TO ALL MOUNTING HARDWARE. EXISTING WIRE AND CONDUIT TO REMAIN. CONTRACTOR SHALL PROVIDE AND EXTEND EXISTING WIRE AND CONDUIT TO TERMINATE TO NEW EMERGENCY LIGHT/EXIT SIGNS. REFER TO DRAWING EA 102 FOR ADDITIONAL INFORMATION.
- D4. CONTRACTOR SHALL REMOVE AND STORE EXISTING WIRELESS ACCESS POINT FOR THE DEMOLITION AND CONSTRUCTION OF THE CEILING. EXISTING WIRE AND CONDUIT TO REMAIN. ONCE CONSTRUCTION HAS BEEN COMPLETED, CONTRACTOR SHALL CLEAN AND INSTALL EXISTING WIRELESS ACCESS POINT. PROVIDE AND EXTEND WIRE AND CONDUIT AS REQUIRED. REFER TO DRAWING EA 100 FOR ADDITIONAL INFORMATION.
- D5. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL RECEPTACLES AND ALL ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.
- D6. CONTRACTOR SHALL REMOVE AND TURN OVER ALL EXISTING PUBLIC ADDRESS SPEAKERS/HORN, AUDIO/VISUAL SPEAKERS TO OWNER. REMOVE AND DISPOSE ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
- D7. CONTRACTOR SHALL REMOVE AND STORE EXISTING PRODUCTION LIGHTING FOR THE DEMOLITION AND CONSTRUCTION OF THE CEILING. EXISTING WIRE AND CONDUIT TO REMAIN. ONCE CONSTRUCTION HAS BEEN COMPLETED, CONTRACTOR SHALL CLEAN AND RE-INSTALL EXISTING PRODUCTION LIGHTING. PROVIDE AND EXTEND WIRE AND CONDUIT AS REQUIRED. REFER TO DRAWING EA 102 FOR ADDITIONAL INFORMATION. (TOTAL OF 5)
- D8. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING AUDIO/VIDEO INPUT JACKS LOCATED ON THE FACE OF THE STAGE WALL AND ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
- D9. CONTRACTOR SHALL REMOVE AND TURN OVER ALL EXISTING AUDIO/VISUAL SYSTEM INCLUDING BUT NOT LIMITED TO SPEAKERS, CONTROLS, AND ALL ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE LOCATED IN AUDITORIUM AND STORAGE/PROJECT ROOM LOCATED ON FLOOR ABOVE. REPAIR, PATCH AND PAINT WALLS TO MATCH EXISTING.
- D10. CONTRACTOR SHALL REMOVE AND TURN OVER EXISTING PRODUCTION LIGHTING TO OWNER. EXISTING LIGHTING PIPE TO REMAIN.



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engineers

CONSULTANTS:		

Purchase, NY 10577 914.358.5623 • www.h2m.com

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"ALTER	ATION OF T	HIS DOCUMENT E	KCEPT E	Y A LICENSED PROFES	SIONAL IS IL	LEGAL"
DESIGNED BY:	DRAWN	I BY:		CHECKED BY:		REVIEWED BY:
DJH		DJH				Q
PROJECT No.:		DATE:			SCALE:	
HHSD 1905	5	JU	LY	2021	4	AS NOTED

Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

CONTRACT E
ELECTRICAL CONSTRUCTION

FINAL BID SET

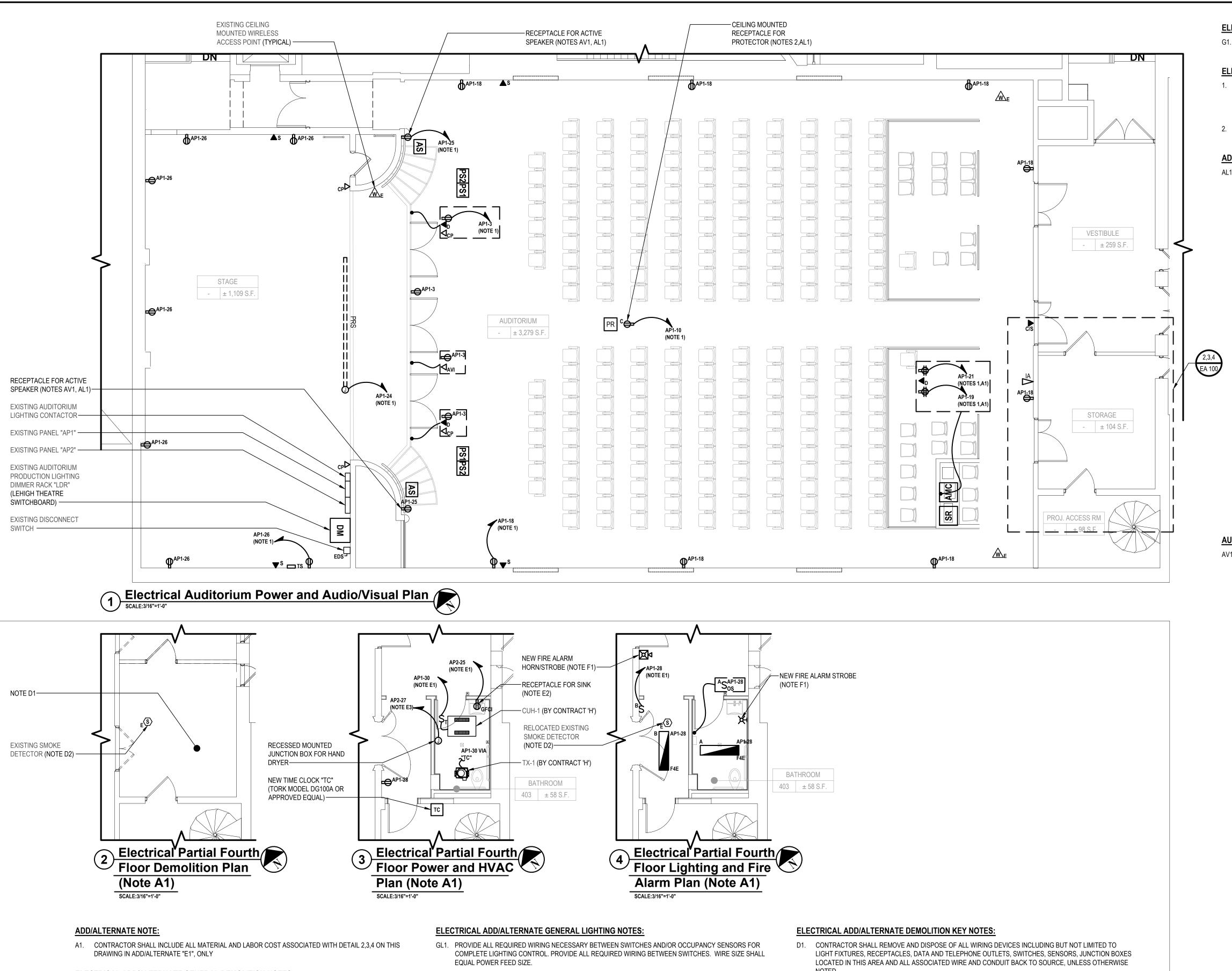
SHEET TITL

ELECTRICAL AUDITORIUM DEMOLITION PLAN

EDA 100.00

APPROXIMATE LOCATION
OF EXISTING EDWARD
SYSTEM TECHNOLOGY
EST 3 FIRE ALARM
CONTROL PANEL "FACP"
(CUSTODIAN ROOM IN
BASEMENT)

Key Plan
SCALE: N.T.S.



ELECTRICAL ADD/ALTERNATE GENERAL DEMOLITION NOTES:

- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL

BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.

- GD4. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING/RELOCATING ANY
- NEW/EXISTING DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.
- GD5. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED WIRE AND CONDUIT, AND BACK BOXES BACK TO SOURCE. CONTRACTOR SHALL PATCH AND PRIME TO MATCH EXISTING WALL.

ELECTRICAL ADD/ALTERNATE FIRE ALARM KEY NOTES:

F1. CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND ALL NECESSARY EQUIPMENT TO MAKE A PROPER CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL "FACP", LOCATED IN THE BASEMENT, USING MANUFACTURERS RECOMMENDED WIRING IN 3/4" E.C. CONTRACTOR SHALL PROVIDE AND EXTEND POWER/DATA FEEDS TO NEW FIRE ALARM DEVICE LOCATION. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE, CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES AS REQUIRED. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION. TYPICAL OF ALL FIRE ALARM DEVICES.

- GL2. FIXTURES INDICATED WITH CIRCUIT DESIGNATIONS SHALL BE CONNECTED TO LINE SIDE OF CIRCUIT.
- GL3. FIXTURES INDICATED WITH LETTER DESIGNATIONS SHALL BE CONNECTED TO THE SWITCH WITH CORRESPONDING LETTER DESIGNATION.
- GL4. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT. CONTRACTOR IS NOT PERMITTED TO USE COMMON NEUTRALS.
- GL5. PROVIDE BOX AND ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION FOR ALL SWITCHES AND/OR CONTROLS.
- GL6. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT/ENGINEER IN FIELD.
- GL7. ALL CEILING MOUNTED FIXTURES WITH EMERGENCY DRIVER AND ALL FIXTURES THAT ARE PART OF AN EMERGENCY LIGHTING SYSTEM, FED FROM A BATTERY SYSTEM SHALL BE LABELED. THESE LABELS SHALL BE EASILY READ FROM THE FLOOR LEVEL AND STATE THAT THE FIXTURE IS AN EMERGENCY FIXTURE AND CONTAIN THE PANEL NAME AND CIRCUIT NUMBER THAT IT IS FEED FROM.
- GL8. WIRING FOR EMERGENCY DRIVER IS NOT SHOWN ON PLANS. FIXTURES WITH EMERGENCY DRIVER SHALL BE PROVIDED WITH AN UNSWITCHED POWER FEED FROM CIRCUIT FEEDING LIGHT FIXTURE.
- D2. EXISTING SMOKE DETECTOR TO BE RELOCATED. NEW LOCATION OF EXISTING SMOKE DETECTOR IS SHOWN ON DETAIL 4 ON THIS DRAWING. CONTRACTOR SHALL PROVIDE AND EXTEND WIRE AND CONDUIT AS REQUIRED TO RELOCATE EXISTING FIRE ALARM STROBE. PROVIDE PROGRAMMING TO THE EXISTING FIRE ALARM SYSTEM AS REQUIRED.

ELECTRICAL ADD/ALTERNATE KEY NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE ALL MOUNTING HARDWARE. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL. AMPERE INTERRUPTING CAPACITY (AIC) RATING ON NEW CIRCUIT BREAKER SHALL MATCH OR EXCEED EXISTING PANEL RATING.
- CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH SINK/FAUCET INSTALLER PRIOR TO INSTALLATION.
- E3. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 15A/1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE ALL MOUNTING HARDWARE. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL. AMPERE INTERRUPTING CAPACITY (AIC) RATING ON NEW CIRCUIT BREAKER SHALL MATCH OR EXCEED EXISTING PANEL RATING.

ELECTRICAL GENERAL NOTE

G1. REFER TO DRAWING EA 200 FOR ALL WIRING AND ADDITIONAL INFORMATION FOR AUDIO/VISUAL SYSTEM. CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT AS PER MANUFACTURES RECOMMENDATION.

ELECTRICAL KEY NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE ALL MOUNTING HARDWARE. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL. AMPERE INTERRUPTING CAPACITY (AIC) RATING ON NEW CIRCUIT BREAKER SHALL MATCH OR EXCEED EXISTING PANEL RATING.
- CONTRACTOR SHALL VERIFY EXACT MOUNTING HEIGHT AND LOCATION WITH SCHOOL PRIOR TO

ADD/ALTERNATE NOTE

AL1. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS COST ASSOCIATED WITH THE INSTALLATION OF THE AUDIO/VISUAL SYSTEM IN ADD/ALTERNATE #4, ONLY.

SYMBOL	DESCRIPTION	REMARKS
SR	44 SPACE EQUIPMENT RACK	-
AMC	32 CHANNELS AND 1 MASTER/48 INPUT MIXING CHANNELS (AUDIO MIXING CONSOLE)	-
$\nabla_{\!$	CUSTOM MIC, UTILITY, LINE OUT PLATES	MOUNT 48" AFF
TS	7" TOUCH SCREEN	-
AS	AS ACTIVE LOUD SPEAKER	
PS1 CEILING MOUNTED PASSIVE LOUD SPEAKER LINE-ARRAY (3-WAY COLUMN)		-
PS2	CEILING MOUNTED PASSIVE LOUD SPEAKER LINE-ARRAY (LOW RANGE COLUMN)	-
PRS	CEILING MOUNTED MOTORIZED PROJECTION SCREEN	-
PR	CEILING MOUNTED PROJECTOR	-
$\nabla_{\!$	AUDIO AND VISUAL INPUT PANEL	-
V IA	ASSISTED LISTENING ANTENNA	-

AUDIO/VISUAL LEGEND NOTE:

AV1. CONTRACTOR SHALL VERIFY EXACT MOUNTING HEIGHT AND LOCATION FOR ALL AUDIO/VISUAL SYSTEM EQUIPMENT AND ASSOCIATED WIRING DEVICES WITH SCHOOL PRIOR TO INSTALLATION.



engineers

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Hastings-on-Hudson Union Free School District

Auditorium Renovations at



27 Farragut Avenue Hastings-on-Hudson, NY 10706

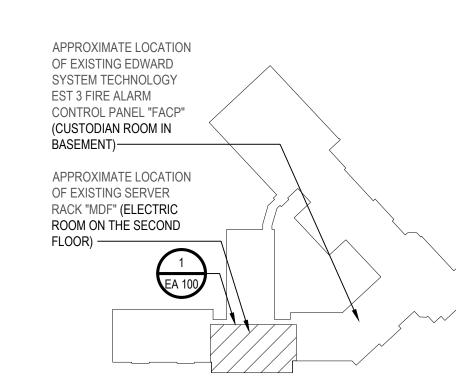
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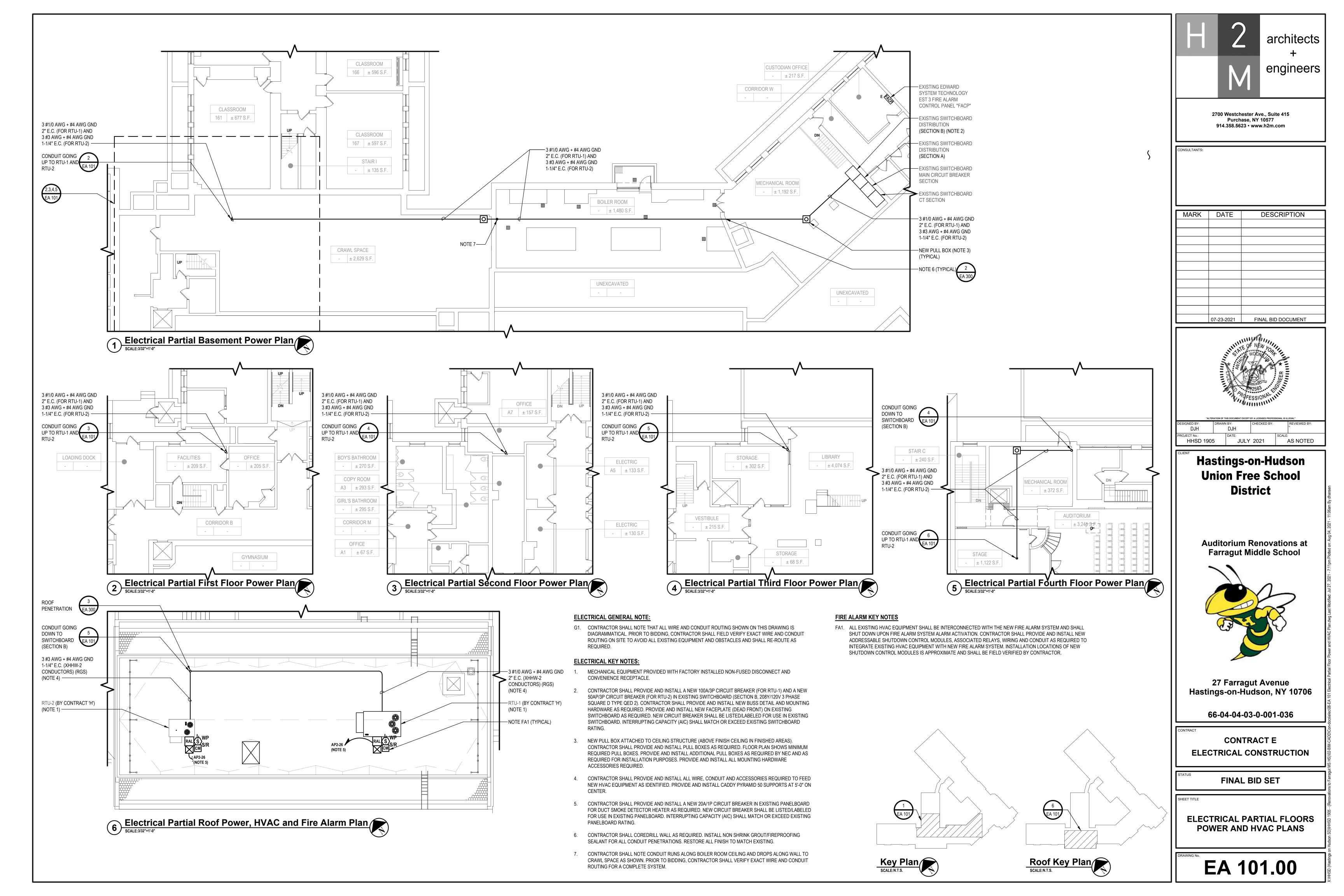
CONTRACT E ELECTRICAL CONSTRUCTION

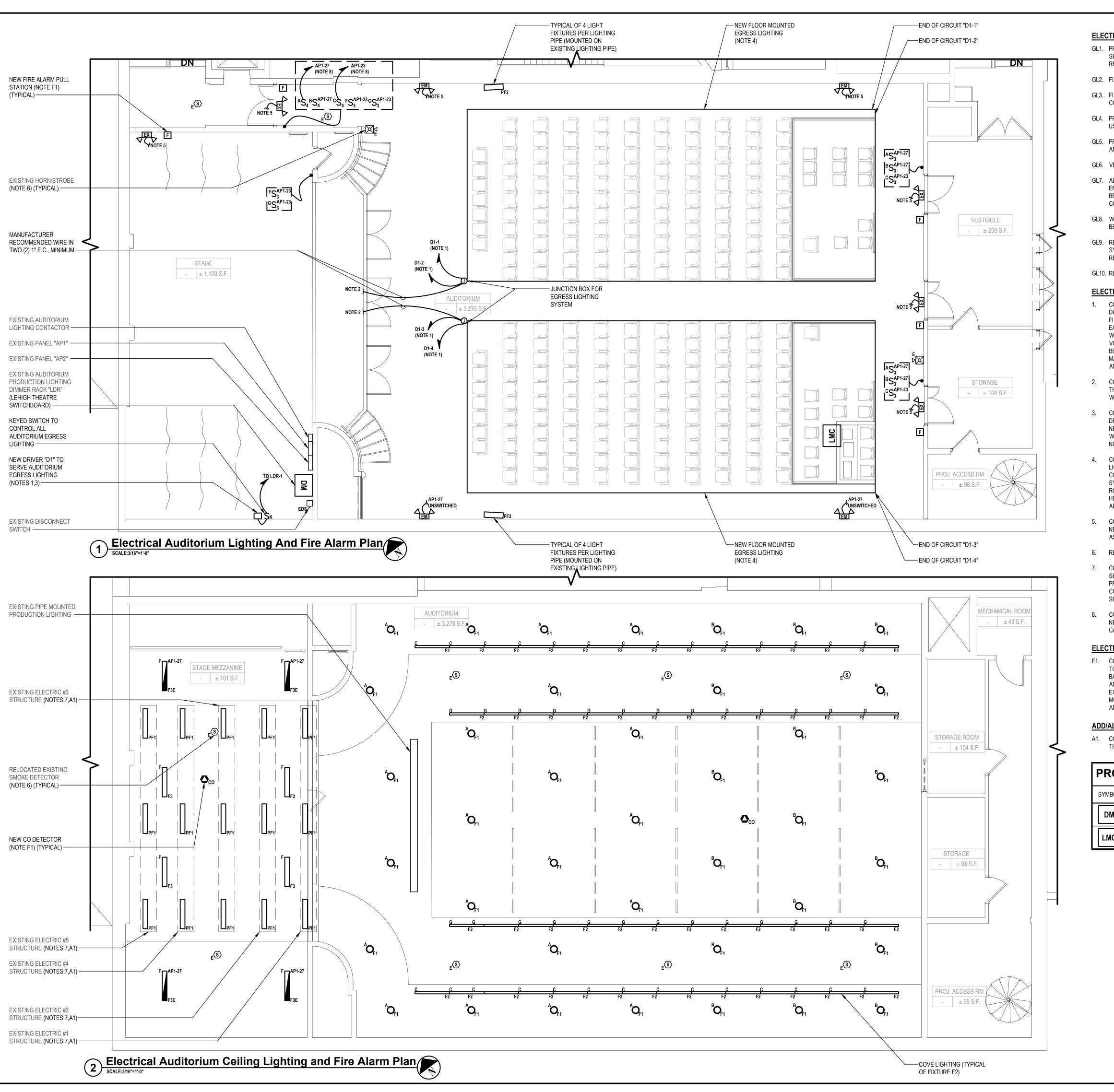
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ELECTRICAL AUDITORIUM POWER AND AUDIO/VISUAL PLANS

EA 100.00







ELECTRICAL GENERAL LIGHTING NOTES

- GL1. PROVIDE ALL REQUIRED WIRING NECESSARY BETWEEN SWITCHES, CONTROLLERS AND/OR OCCUPANCY SENSORS FOR COMPLETE LIGHTING CONTROL. WHERE 3 OR 4 WAY SWITCHES ARE USED, PROVIDE ALL REQUIRED WIRING BETWEEN SWITCHES. WIRE SIZE SHALL EQUAL POWER FEED SIZE.
- GL2. FIXTURES INDICATED WITH CIRCUIT DESIGNATIONS SHALL BE CONNECTED TO LINE SIDE OF CIRCUIT.
- GL3. FIXTURES INDICATED WITH LETTER DESIGNATIONS SHALL BE CONNECTED TO THE SWITCH WITH CORRESPONDING LETTER DESIGNATION.
- GL4. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT. CONTRACTOR IS NOT PERMITTED TO
- GL5. PROVIDE BOX AND ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION FOR ALL SWITCHES
- GL6. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT/ENGINEER IN FIELD.
- GL7. ALL CEILING MOUNTED FIXTURES WITH EMERGENCY DRIVER AND ALL FIXTURES THAT ARE PART OF AN EMERGENCY LIGHTING SYSTEM, FED FROM A BATTERY SYSTEM SHALL BE LABELED. THESE LABELS SHALL BE EASILY READ FROM THE FLOOR LEVEL AND STATE THAT THE FIXTURE IS AN EMERGENCY FIXTURE AND CONTAIN THE PANEL NAME AND CIRCUIT NUMBER THAT IT IS FEED FROM.
- GL8. WIRING FOR EMERGENCY DRIVER IS NOT SHOWN ON PLANS. FIXTURES WITH EMERGENCY DRIVER SHALL BE PROVIDED WITH AN UNSWITCHED POWER FEED FROM CIRCUIT FEEDING LIGHT FIXTURE.
- GL9. REFER TO DRAWING EA 201 FOR ALL WIRING AND ADDITIONAL INFORMATION FOR PRODUCTION LIGHTING SYSTEM. CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT AS PER MANUFACTURES RECOMMENDATION.
- GL10. REFER TO DETAIL 1 ON THIS DRAWING FOR LIGHT FIXTURE SWITCHES.

ELECTRICAL KEY NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL A DEDICATED HOMERUN BETWEEN EACH LIGHTING STRIP AND DRIVER "D1" AS SHOWN ON THIS DRAWING VIA NEW JUNCTION BOX. CONTRACTOR SHALL COREDRILL FLOOR AND RUN CONDUIT BELOW FLOOR (ABOVE FINISHED CEILING ON THE FLOOR BELOW) BETWEEN EACH LIGHTING STRIP AND STAGE AS SHOWN ON DRAWING. CONTRACTOR SHALL PROVIDE AND INSTALL WIRE AND CONDUIT SIZED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR VOLTAGE DROP OVER THE DISTANCE BETWEEN THE LIGHTING STRIP AND THE DRIVER. ALL WIRE TYPES BETWEEN THE LIGHTING STRIP AND DRIVER SHALL BE AS RECOMMENDED BY THE LIGHTING STRIP MANUFACTURER. ALL HOMERUNS SHALL BE CONTAINED IN 1" E.C., MINIMUM BETWEEN THE LIGHTING STRIP AND DRIVER "D1".
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRE AND CONDUIT BACK TO DRIVER "D1" AS SHOWN ON THIS DRAWING. PROVIDE AND INSTALL ALL HARDWARE AND ACCESSORIES AS REQUIRED TO STUB UP ALL WIRING AND CONDUIT BELOW AUDITORIUM FLOOR.
- CONTRACTOR SHALL PROVIDE AND INSTALL NEW DRIVER (CALIFORNIA ACCENT LIGHTING MODEL #: DRV96-E OR APPROVED EQUAL). CONTRACTOR SHALL FEED DRIVER AS SHOWN ON THIS DRAWING VIA NEW KEYED SWITCH. CONTRACTOR SHALL WALL MOUNT THE DRIVERS AT 6'-0" AFF. CONTRACTOR SHALL WALL MOUNTED THE ASSOCIATED KEYED SWITCH AT 3'-10" AFF. INDICATION D1-X INDICATES CIRCUIT NUMBER ON DRIVER.
- CONTRACTOR SHALL PROVIDE AND INSTALL NEW EGRESS LIGHTING SYSTEM (CALIFORNIA ACCENT LIGHTING MODEL #: AIL1800-4"-10V-5000K-CL-X. COORDINATE 'X' WITH EXACT LENGTH REQUIRED). CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES AS REQUIRED TO INSTALL THE LIGHTING SYSTEM INCLUDING BUT NOT LIMITED TO LENS COVER, ALUMINUM EXTRUSION, LED LIGHTING STRIP ROLLS, POWER CONNECTORS, CONTINUOUS POWER CONNECTORS, AND END CAPS. ALL CORNERS SHALL HEAVE A CLEAN MITERED EDGE. CONTRACTOR SHALL CUT LIGHTING SYSTEM COMPONENTS TO THE APPROPRIATE LENGTH IN FIELD AS PER THE MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL PROVIDE, EXTEND AND/OR MODIFY EXISTING WIRE AND CONDUIT TO TERMINATE TO NEW EMERGENCY LIGHT/EXIT SIGN. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED. REFER TO DRAWING EDA 100 FOR ADDITIONAL INFORMATION.
- 6. REFER TO DRAWING EDA 100 FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL HARDWARE AND ACCESSORIES AS REQUIRED TO SECURELY MOUNT NEW PRODUCTION LIGHTING AND EQUIPMENT TO EXISTING LIGHTING PIPE. RE-SECURE, PROVIDE AND/OR MODIFY PIPE TO PROVIDE CLEARANCE FOR NEW HVAC DUCT AND AS REQUIRED. COORDINATE WITH CONTRACT 'H' FOR NEW DUCT LOCATION. PRIME AND PAINT PIPE WITH COLOR SELECTED BY SCHOOL.
- CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANELBOARD. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANELBOARD. INTERRUPTING CAPACITY (AIC) SHALL MATCH OR EXCEED EXISTING PANELBOARD RATING.

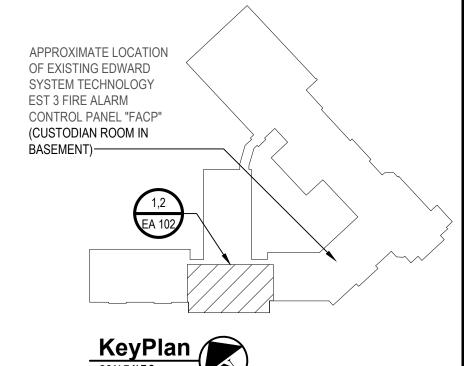
ELECTRICAL FIRE ALARM KEY NOTE:

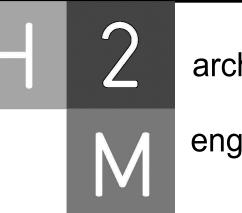
F1. CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND ALL NECESSARY EQUIPMENT MOUNTING HARDWARE. AND JUNCTION BOXES AS REQUIRED. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION. TYPICAL OF ALL FIRE ALARM DEVICES.

ADD/ALTERNATE NOTE:

A1. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS COST ASSOCIATED WITH THE INSTALLATION OF THE PRODUCTION LIGHTING IN ADD/ALTERNATE #3, ONLY.

PRO	PRODUCTION LIGHTING LEGEND (NOTE A1)			
SYMBC	L	DESCRIPTION	REMARKS	
DM		EXISTING DIMMING RACK	-	
LMC		EXISTING LIGHTING MIXING CONTROL CONSOLE	-	





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DESIGNED BY:	DRAWN	NBY:	CHECKED BY:		REVIEWED BY:
DJH		DJH			Q
PROJECT No.:		DATE:		SCALE	:
HHSD 1905	5	JULY	2021		AS NOTED

Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School



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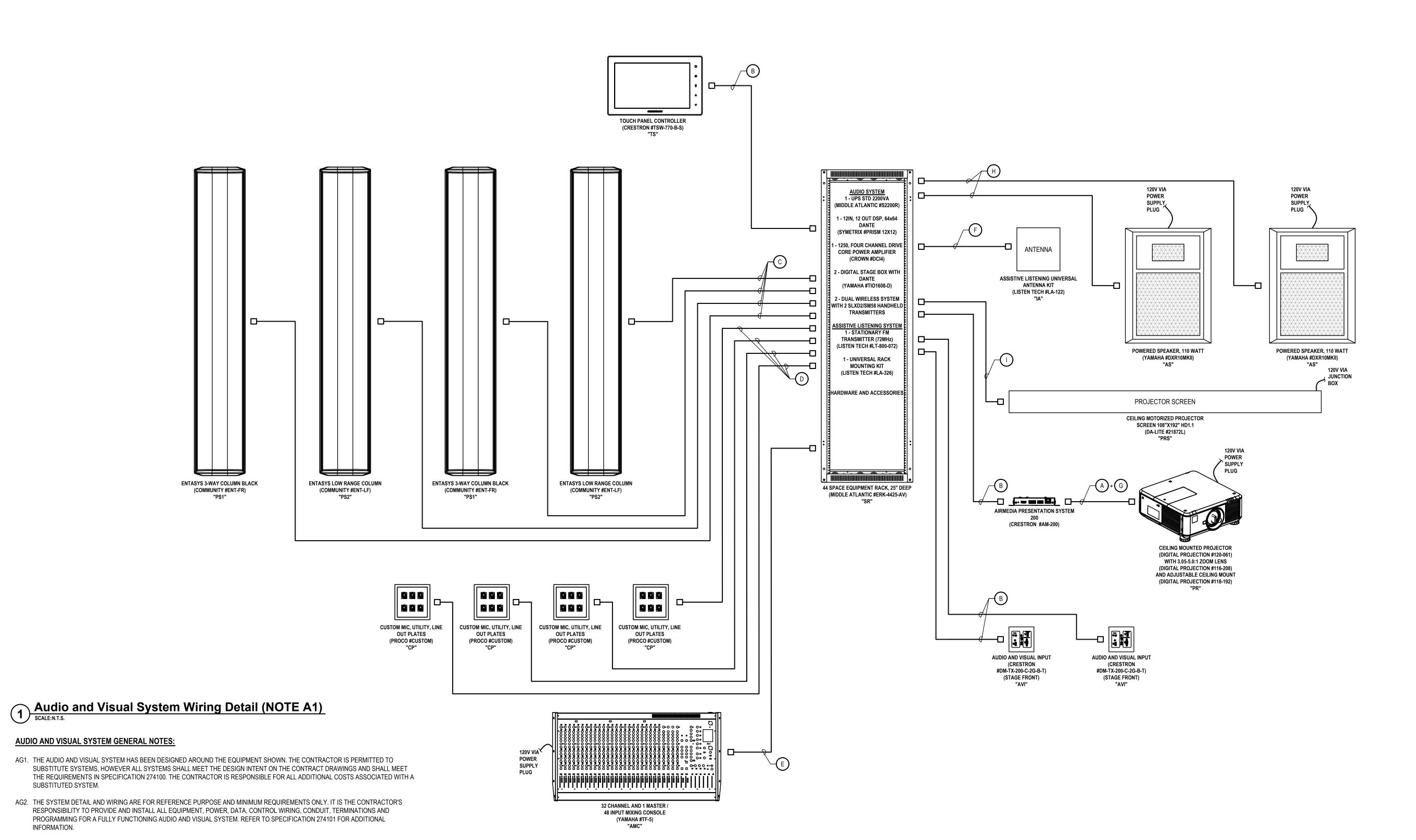
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CONTRACT E ELECTRICAL CONSTRUCTION

FINAL BID SET

ELECTRICAL AUDITORIUM LIGHTING AND FIRE ALARM PLANS

EA 102.00



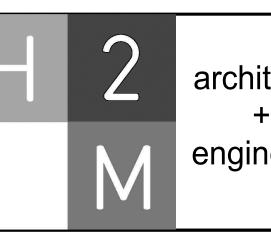
ADD/ALTERNATE KEY NOTE: SYSTEM IN ADD/ALTERNATE #4, ONLY.

A1. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS COST ASSOCIATED WITH THE INSTALLATION OF THE AUDIO/VISUAL

AG3. CONTRACTOR SHALL ENGAGE THE SERVICES OF A PRODUCTION LIGHTING/AV STRUCTURAL INSTALLER TO REVIEW EXISTING

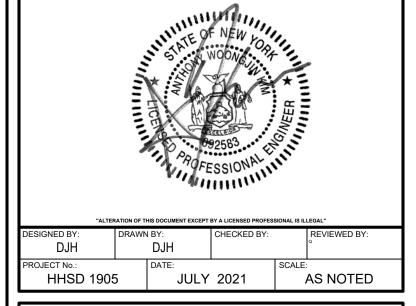
PRODUCTION LIGHTING/AV SUPPORTS. RE-SUPPORT EXISTING STRUCTURE AS REQUIRED.

AUDIO	AUDIO AND VISUAL WIRE AND CABLE SCHEDULE		
FEEDER	WIRE AND CONDUITS SCHEDULE		
(A)	SHIELDED CAT 6		
В	CRESTRON DM-CBL-NP		
©	12-2 SPEAKER CABLES		
(D)	WHIRLWIND W12PR, OR APPROVED EQUAL		
E	SHIELDED CAT 6E WITH ETHERCON CONNECTORS		
F	RG58 COAXIAL CABLE		
G	HDMI CABLE		
H	XLR CABLE		
<u> </u>	WESTPENN 25244		



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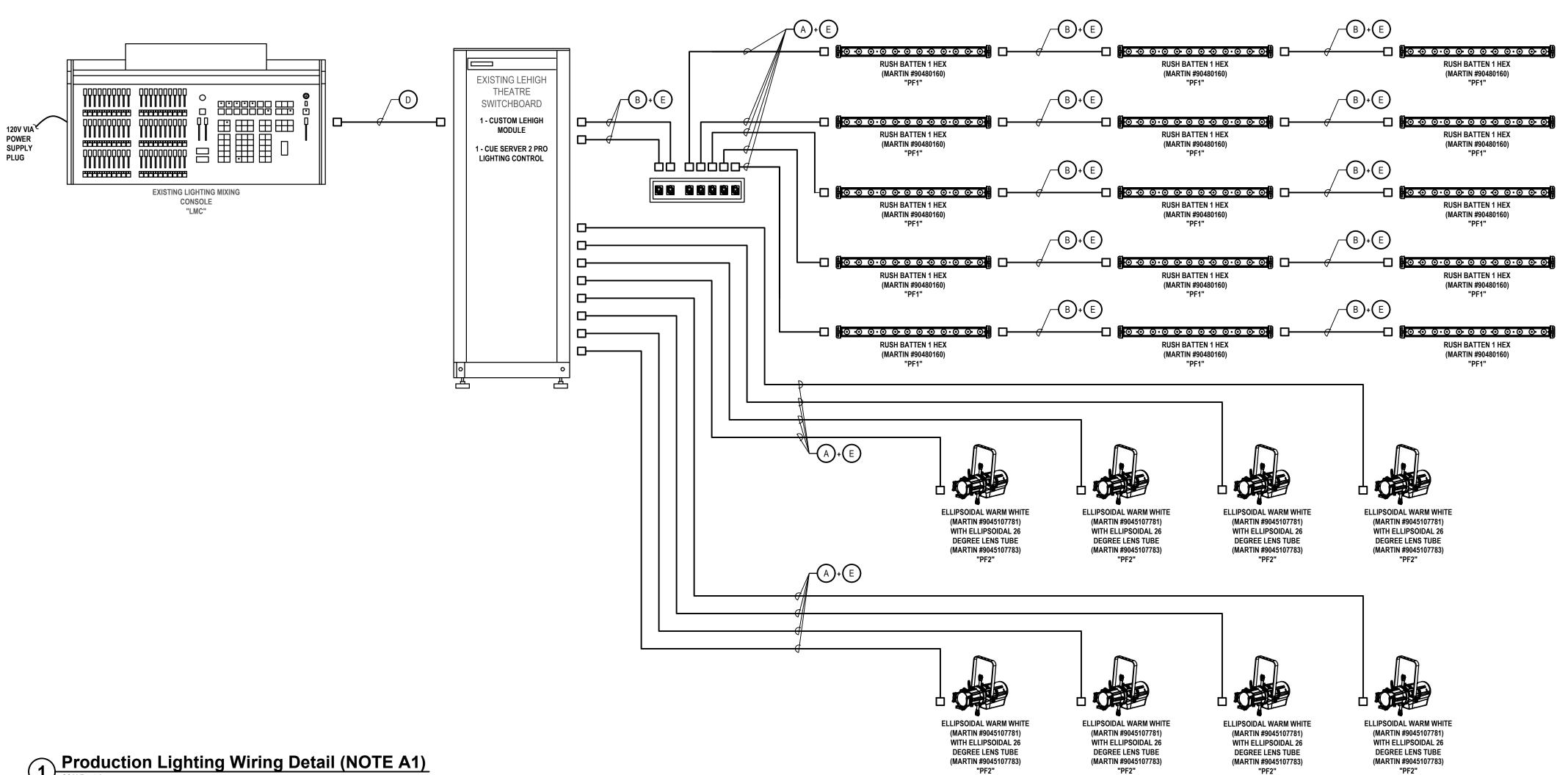
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CONTRACT G GENERAL CONSTRUCTION

FINAL BID SET

ELECTRICAL AUDITORIUM AUDIO/VISUAL DETAIL (ALTERNATE #4)

EA 200.00



1 Production Lighting Wiring Detail (NOTE A1)
SCALE:N.T.S.

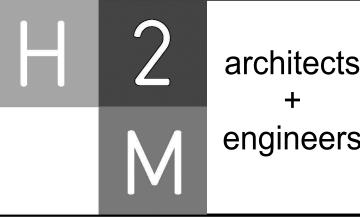
PRODUCTION LIGHTING GENERAL NOTES:

- PG1. THE PRODUCTION LIGHTING HAS BEEN DESIGNED AROUND THE EQUIPMENT SHOWN. THE CONTRACTOR IS PERMITTED TO SUBSTITUTE SYSTEMS, HOWEVER ALL SYSTEMS SHALL MEET THE DESIGN INTENT ON THE CONTRACT DRAWINGS AND SHALL MEET THE REQUIREMENTS IN SPECIFICATION 265000.01. THE CONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL COSTS ASSOCIATED WITH A SUBSTITUTED SYSTEM.
- PG2. THE SYSTEM DETAIL AND WIRING ARE FOR REFERENCE PURPOSE AND MINIMUM REQUIREMENTS ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND INSTALL ALL EQUIPMENT, POWER, DATA, CONTROL WIRING, CONDUIT, TERMINATIONS AND PROGRAMMING FOR A FULLY FUNCTIONING PRODUCTION LIGHTING SYSTEM. REFER TO SPECIFICATION 265000/01 FOR ADDITIONAL INFORMATION.
- PG3. CONTRACTOR SHALL ENGAGE THE SERVICES OF A PRODUCTION LIGHTING/AV STRUCTURAL INSTALLER TO REVIEW EXISTING PRODUCTION LIGHTING/AV SUPPORTS. RE-SUPPORT EXISTING STRUCTURE AS REQUIRED.
- PG4. CONTRACTOR SHALL COORDINATE LIGHTING CONTROL PROGRAMMING WITH SCHOOL TO DETERMINE

ADD/ALTERNATE NOTE:

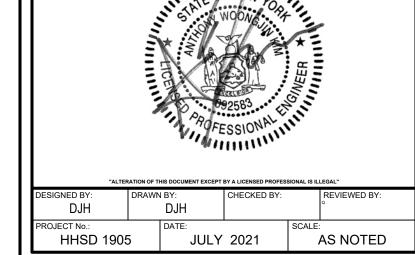
A1. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS COST ASSOCIATED WITH THE ADDITION OF THE PRODUCTION LIGHTING SYSTEM IN ADD/ALTERNATE #3, ONLY.

AUDIO AND VISUAL WIRE AND CABLE SCHEDULE				
FEEDER	WIRE AND CONDUITS SCHEDULE			
A	PROCO #DMX5-50 (DMX 5 PIN LIGHTING CABLE 50FT) (OR APPROVED EQUAL)			
B	PROCO DMX5-15 (DMX 5 PIN LIGHTING CABLE 15FT) (OR APPROVED EQUAL)			
0	2 #12 AWG + #12 AWG GND S.O. CORD WITH POWERCON 20A/1P TWIST PLUG CONNECTOR BY NEUTRIX (OR APPROVED EQUAL)			
Ф	EXISTING WIRE AND CONDUIT			
E	POWER JUMPER CABLE			



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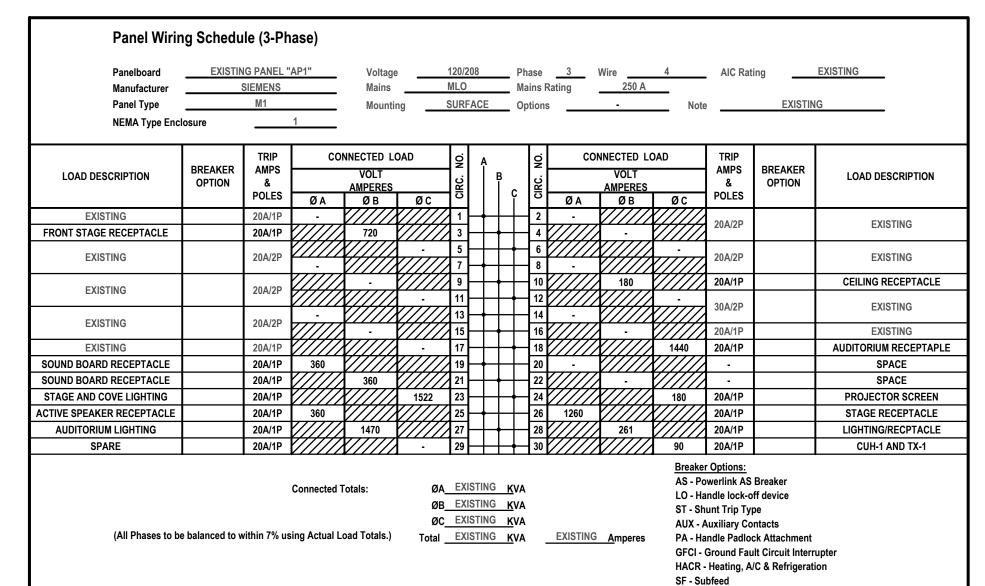
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FINAL BID SET

ELECTRICAL AUDITORIUM PRODUCTION LIGHTING DETAIL (ALTERNATE #3)

EA 201.00



Panelboard Manufacturer	•	IG PANEL "/ SIEMENS	AP2"	Voltage Mains	e	120/2 MLO	08		nase ains R		Nire250 A	4	_ AIC Rat	ing <u>E</u>	EXISTING
Panel Type		M1		Mounti	ing	SURF	ACE	_ 0	ptions		-	Note	e	EXISTING	<u> </u>
NEMA Type Enc	losure		1												
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	COI Ø A	NNECTED L VOLT AMPERES Ø B	OAD Ø C	CIRC. NO.	Â	ç	CIRC. NO.	CON Ø A	VOLT AMPERES ØB		TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
EXISTING		20A/1P	•	/////	1////	11	\dashv	+	2	•		111111	20A/1P		EXISTING
EXISTING		20A/1P	//////		V////	13	\dashv	+	4			<i>V/////</i>	20A/1P		EXISTING
EXISTING		20A/1P			 	5	+	\dashv	- 6			1 .	20A/1P		EXISTING
EXISTING		20A/1P	-		1////	77	\dashv	_	- 8	-		X/////	20A/1P		EXISTING
EXISTING		20A/1P	//////	-		9	\dashv	_	10		-		20A/1P		EXISTING
EXISTING		20A/1P			.	11	\dashv	+	12			1 .	20A/1P		EXISTING
EXISTING		20A/1P			X/////	13	\dashv	_	14	-		X/////	20A/1P		EXISTING
EXISTING		20A/1P	//////		V////	15	\rightarrow	+	16		-		20A/1P		EXISTING
EXISTING		20A/1P				17	+	\dashv	18				20A/1P		EXISTING
EXISTING		20A/1P			X/////	19	\dashv	_	20	-		X/////	20A/1P		EXISTING
EXISTING		15A/1P	//////	-	V////	21	\dashv	+	22		-		20A/1P		EXISTING
EXISTING		20A/1P			1 .	23	+	\dashv	24			1 .	20A/1P		EXISTING
ATHROOM SINK RECEPT.		20A/1P	180		<i>\\\\\\\</i>	25	\dashv	+	26	-		X/////	20A/1P		DUCT SMOKE HEATERS
ATHROOM HAND DRYER	GFCI	15A/1P		1000	V////	27	\dashv	+	28		-		-		SPACE
SPACE		-			1 .	29	+	\dashv	30			1 -	-		SPACE
(All Phases to b	e balanced to v		Connected 1		ØB ØC	EXI	STING STING STING STING	KVA KVA		EXISTING	<u>A</u> mperes	AS - Po LO - Ha ST - Sh AUX - A PA - Ha GFCI -	Ground Fau - Heating, A	ff device oe	

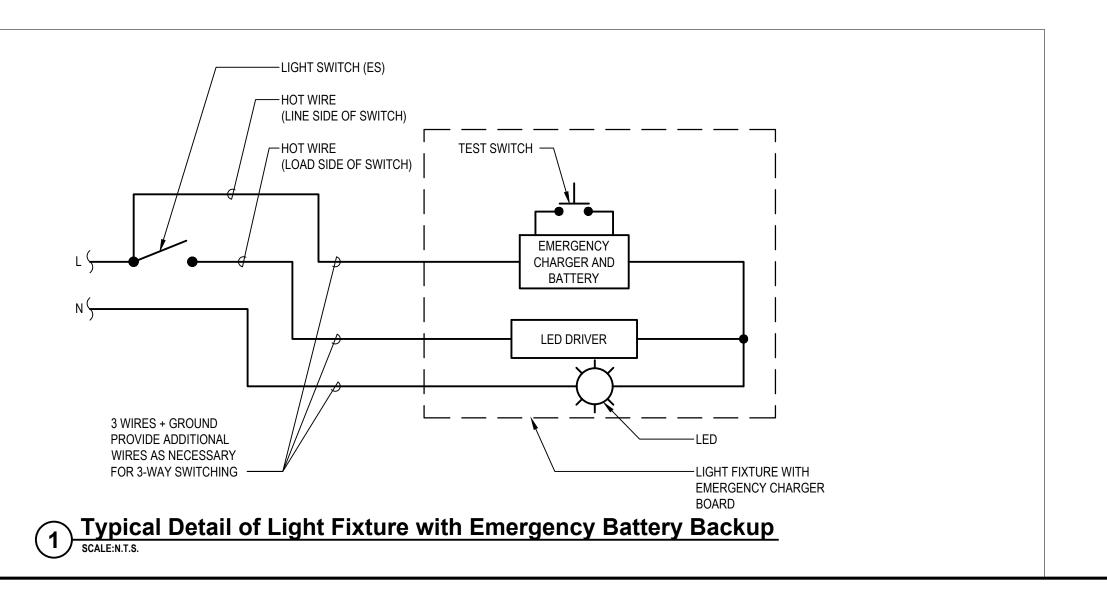
DESIGNATION	SYMBOL	MANUFACTURER	MODEL NUMBER	TYPE	WATTS	COLOR TEMP	VOLT	LUMENS	MOUNTING	REMARKS	MOUNTING HEIGHT	DETAIL
F1	0	PRESCOLITE	LTC-6RD-P-30L40K9MD-DM1- S-BL	LED	35	4000K	UNV	3000	PENDANT	18" STEM MOUNTED	CEILING	-
F2		SSL	ECVLX10V-4-35K-120	LED	15.2/FIXTURE	4000K	UNV	1300	SURFACE	-	COVE	-
F3		COLUMBIA	LCL4-40LVLED1U	LED	85	4000K	UNV	10400	PENDANT	NOTE LS2	19' AFF	-
F3E		COLUMBIA	LCL4-40LVLED1U-ELL14	LED	85	4000K	UNV	10400	PENDANT	NOTES LS1, LS2	19' AFF	1 EA 300
F4E		COLUMBIA	LAW4-40K-VW-ED1U-ELL14	LED	27	4000K	UNV	3346	SURFACE	NOTE LS1	CEILING	1 EA 300
PF1		MARTIN	MARTIN-90480160	LED	148	VARIABLE	UNV	-	SURFACE	-	AS PER MANUFACTURES RECOMMENDATION	-
PF2		MARTIN	MARTIN-9045107781	LED	280	3000K	UNV	7000	SURFACE	ELLIPSOIDAL FIXTURE W/26 DEGREE LENS	AS PER MANUFACTURES RECOMMENDATION	-
EM	EM	DUAL LITE	EV2	LED	2	-	UNV	-	SURFACE	NOTE LS1	7'-6" AFF, UON	1 EA 300
EX	4 _{EX}	COMPASS	CCRG	LED	3.9	-	UNV	-	SURFACE	NOTE LS1	7'-6" AFF, UON	1 EA 300
OS	S	HUBBELL	LHMTS1-G-WH	-	-	-	UNV	-	RECESSED	WALL MOUNTED OCCUPANCY SENSOR SWITCH	46" AFF	-

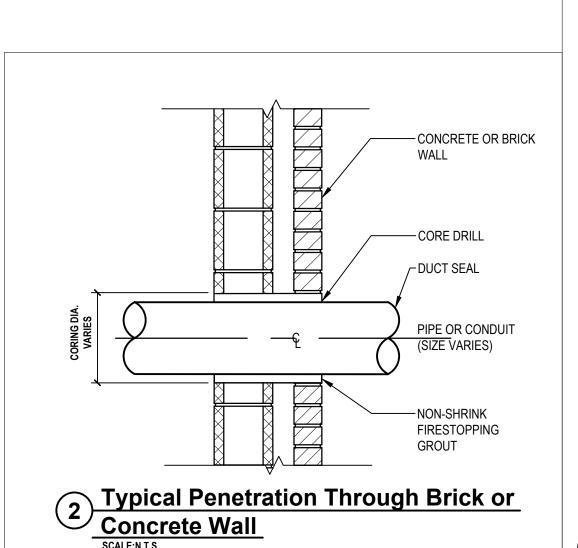
TC - Time Clock Control

LIGHTING SCHEDULE NOTES:

LS1. EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACK-UP CAPACITY

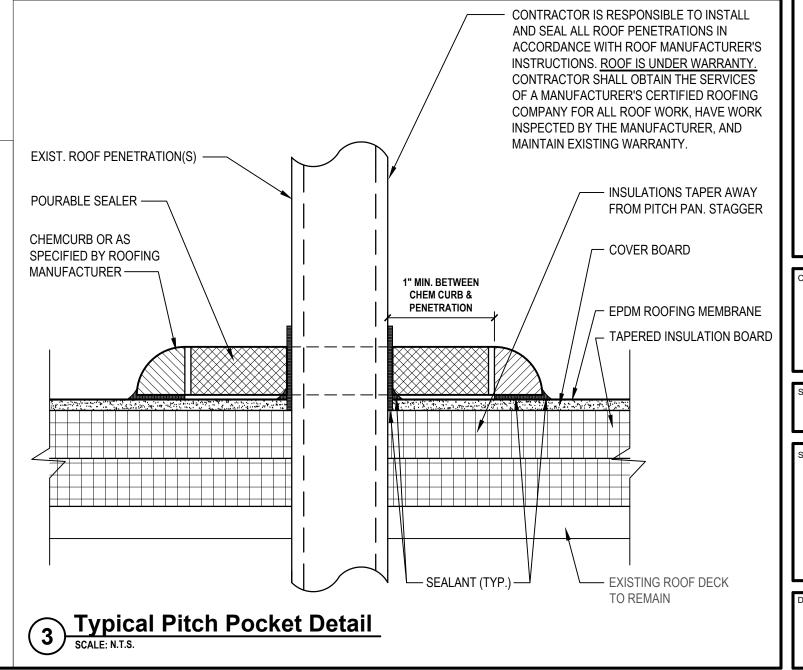
LS2. CONTRACTOR SHALL PROVIDE ACCESSORY 'CSHC' CHAIN HANGER ASSEMBLY WITH LIGHT FIXTURE.





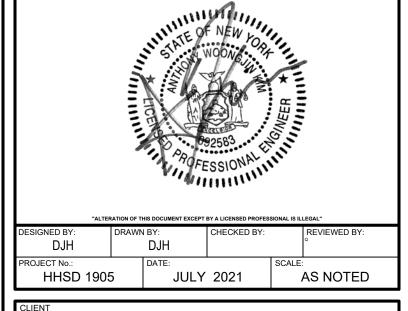
Typical Penetration Through Brick or Concrete Wall

SCALE:N.T.S.



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ELECTRICAL SCHEDULES AND DETAILS

EA 300.00