TPSS PROJECT NO. 2024-024-200

PONCHATOULA HIGH SCHOOL 18 CLASSROOM ADDITION AND CAFETERIA



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BID DOCUMENTS

VOLUME 2

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PONCHATOULA HIGH SCHOOL 18
CLASSROOM ADD. & CAFETERIA
19452 LA-22, PONCHATOULA, LA 70454

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	
QUALITY CONTROL	

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BID DOCUMENTS

G100

TITLE SHEET

H/S

10/9/2026 4:39:12 PM

Autodesk Docs://PHS 18 Classroom Add & Cafeteria/25005 - PHS - 18 CR ADDITION_2025.rvt

1"
½"
0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

RENOVATION NOTES

1. THE ADJACENT SITE AND BUILDINGS ARE CURRENTLY OCCUPIED , AND MUST REMAIN COMPLETELY OPERATIONAL DURING NORMAL BUSINESS HOURS (7:00 AM TO 6:00 PM WEEKDAYS). COORDINATE WITH THE OWNER AND OCCUPANTS ALL CONSTRUCTION ACTIVITIES THAT MAY IMPEDE NORMAL OPERATIONS, INCLUDING ACTIVITIES THAT GENERATE EXCESSIVE NOISE, AIRBORNE PARTICULATES, OR EXCESSIVE TRAFFIC. SEPARATE ALL OCCUPIED SPACES FROM WORK AREAS WITH DUST PARTITIONS OR CURTAINS.
2. OPERABLE EXITS SHALL REMAIN CLEAR AND USABLE THROUGHOUT THE CONSTRUCTION PROCESS UNLESS SHOWN OTHERWISE. PROVIDE TEMPORARY MEANS OF EGRESS, AS DETERMINED BY ARCHITECT, WHERE REQUIRED EXITS MUST BE CLOSED.
3. FIRE PROTECTION MEASURES, INCLUDING EXIT/EMERGENCY LIGHTING, SPRINKLER SYSTEMS, AND FIRE ALARM SYSTEMS SHALL REMAIN OPERATIONAL IN OCCUPIED SPACES THROUGHOUT THE CONSTRUCTION PROCESS.
4. MAINTAIN A SECURE SITE AT ALL TIMES. PROVIDE MORE PERMANENT WEATHER AND SECURITY PROTECTION IF CONSTRUCTION IS DELAYED OR POSTPONED; CONFIRM SCOPE WITH ARCHITECT.
5. FIELD VERIFY AND DOCUMENT ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, BENCHMARKS, MATERIALS AND METHODS OF CONSTRUCTION THAT AFFECT THE WORK. DRAWINGS OF EXISTING CONDITIONS ARE BASED ON AVAILABLE DOCUMENTS AND OBSERVABLE FIELD CONDITIONS AND MAY VARY FROM ACTUAL CONDITIONS. COORDINATE VERIFIED ITEMS WITH THE DOCUMENTS. NOTIFY THE ARCHITECT OF DISCREPANCIES.
6. ASSIST THE ARCHITECT IN MAKING EVALUATIONS OF UNKNOWN CONDITIONS BY PROVIDING FIELD INFORMATION.
7. NOTIFY ARCHITECT, DISCONTINUE WORK, AND VACATE AREAS WHERE MATERIALS SUSPECTED OF BEING HAZARDOUS ARE ENCOUNTERED. ASSUME THAT PAINT APPLIED PRIOR TO 1978 CONTAINS LEAD. IN SCHOOLS AND GOVERNMENT-OWNED BUILDINGS REVIEW ASBESTOS MANAGEMENT PLANS WITH OWNER'S RESPONSIBLE PARTY PRIOR TO PROCEEDING WITH THE WORK.
8. PRIOR TO THE START OF DEMOLITION, COORDINATE WITH OWNER AND ARCHITECT ITEMS TO BE SALVAGED AND ITEMS TO BE DISPOSED OF.
9. DRAWINGS SHOW GENERAL DEMOLITION INTENT BUT DO NOT SHOW ALL THE ITEMS REQUIRED TO BE REMOVED. INCORPORATE IN THE DEMOLITION ALL ITEMS AND COMPONENTS REQUIRED FOR THE COMPLETION OF THE PROJECT.
10. DO NOT PROCEED WITH DEMOLITION WORK THAT MAY COMPROMISE THE STRUCTURAL OR AESTHETIC INTEGRITY OF WORK TO REMAIN WITHOUT NOTIFYING THE ARCHITECT.
11. PROVIDE TEMPORARY ENCLOSURES AND WEATHER PROTECTION FOR PORTIONS OF STRUCTURES SCHEDULED TO REMAIN.
12. MAINTAIN MOVEMENT JOINTS IN EXISTING CONSTRUCTION WITHOUT COMPROMISE. NOTIFY ARCHITECT OF AREAS IN QUESTION.
13. REMOVE AND STORE MATERIALS AND EQUIPMENT INDICATED TO BE REUSED OR RELOCATED TO PREVENT DAMAGE AND REINSTALL AS THE WORK PROGRESSES
14. PROTECT EXISTING UTILITIES TO REMAIN. REMOVE EXISTING UTILITIES INDICATED AND TERMINATE IN A MANNER MEETING THE DOCUMENTS REQUIREMENTS AND INDUSTRY STANDARDS. PROVIDE BARRICADES AND TEMPORARY COVERING FOR EXPOSED AREAS.
15. IF UTILITY LINES ARE ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS, DO NOT PROCEED WITHOUT INSTRUCTIONS FROM THE ARCHITECT.
16. IF UTILITIES TO BE REMOVED WILL INTERRUPT THE FACILITY'S NORMAL OPERATIONS, PROVIDE TEMPORARY UTILITIES UNTIL PERMANENT UTILITIES ARE RESTORED.
17. RE-PAINT WALL/CEILING SURFACES IN THEIR ENTIRETY IF MARRED BY CONSTRUCTION, TOP TO BOTTOM, CORNER TO CORNER. SPOT TOUCH-UPS ARE NOT ACCEPTABLE.
18. REMOVE AND STORE MATERIALS AND EQUIPMENT AT EXISTING SITE INDICATED TO BE REUSED OR RELOCATED TO PREVENT DAMAGE, AND REINSTALL AS THE WORK PROGRESSES.
19. REMOVE AND TRANSPORT DEBRIS AND RUBBISH IN A MANNER THAT WILL PREVENT SPILLAGE ON PAVEMENTS, STREETS, OR ADJACENT AREAS. CLEAN UP SPILLAGE FROM PAVEMENTS, STREETS, AND ADJACENT AREAS, IN COMPLIANCE WITH ALL LOCAL AND STATE REQUIREMENTS. DESIGNATE ON SITE VEHICLE WASH STATION.
20. THE ADJACENT SITE AND BUILDINGS WILL REMAIN OCCUPIED AND OPERATIONAL THROUGHOUT CONSTRUCTION. COORDINATE AND PHASE ALL PORTIONS OF THE WORK TO MINIMIZE DISRUPTION TO THE OCCUPANTS AS MUCH AS POSSIBLE. PROVIDE ALL TEMPORARY PROTECTIONS AND CONNECTIONS AS REQUIRED TO MAINTAIN SAFE AND UNINTERRUPTED USE.

GENERAL NOTES

1. VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS. VERIFY ALL CONDITIONS THAT RELATE TO THE EXECUTION OF THE WORK.
2. NOTIFY ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS THAT AFFECT COMPLETION OF THE WORK.
3. DIVISION OF DRAWINGS AND SPECIFICATIONS INTO DISCIPLINES DO NOT LIMIT SCOPE OR INTENT OF ANY PART. WORK IS TO BE CONSTRUCTED AS A COMPLETE INTEGRATED AND UNIFIED WHOLE.
4. THE DOCUMENTS ARE COMPLIMENTARY; ITEMS SHOWN IN ONE OR MULTIPLE LOCATIONS SHALL BE REQUIREMENTS OF THE CONTRACT FOR CONSTRUCTION. SEEK CLARIFICATION FROM THE ARCHITECT PRIOR TO BIDDING IN THE EVENT OF INCONSISTENCIES WITHIN THE DOCUMENTS. WHERE INCONSISTENCIES ARE NOT CLARIFIED INCLUDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK IN THE BID PROPOSAL. THE WORK INCLUDES LABOR AND MATERIALS NECESSARY FOR A COMPLETE PROJECT AS DESCRIBED OR INFERRED IN THE DOCUMENTS.
5. THE CONTRACT DOCUMENTS INCLUDE THE AGREEMENT, DRAWINGS, PROJECT MANUAL, ADDENDA, AMENDMENTS, FIELD ORDERS, AND CHANGE ORDERS.
6. DRAWING SCALES CHANGE WITH PRINTED SHEET SIZE. NOTE THE GRAPHIC SCALE IN THE LOWER LEFT CORNER OF EACH ARCHITECTURAL SHEET. NOT ALL DRAWINGS ARE GUARANTEED TO BE EXACTLY TO SCALE; CONSULT ARCHITECT SHOULD QUESTIONS ARISE.
7. DOCUMENTS DO NOT SHOW THE EXACT QUANTITIES OF MATERIALS.
8. THE DRAWINGS REPRESENT GENERAL LOCATIONS OF IMPROVEMENTS. LOCATE ALL IMPROVEMENTS ON SITE PRIOR TO ALTERATION, ADDITIONS, OR TIE-INS.
9. PROTECT THE SITE AND PROPERTY. MAINTAIN ALL AREAS FREE OF TRASH AND DEBRIS; REMOVE COLLECTED WASTE WEEKLY. VERIFY LOCATION OF DUMPSTER WITH ARCHITECT. AFTER PROJECT COMPLETION, RESTORE DUMPSTER AREA TO PRE-CONSTRUCTION CONDITION UNLESS NOTED OTHERWISE.
10. STORE MATERIALS IN STAGING AREA, WHICH SHALL BE DETERMINED AND APPROVED BY THE OWNER AT THE PRE-BID MEETING. AFTER COMPLETION, RESTORE STAGING AREA TO ORIGINAL CONDITION UNLESS NOTED OTHERWISE. RESTORE PORTIONS OF THE SITE AFFECTED BY THE WORK TO ORIGINAL CONDITION.
11. MINIMIZE TRAFFIC DISRUPTION IN THE VICINITY OF THE SITE. REGULAR WORKING HOURS SHALL BE FROM 7:00 AM TO 5:00 PM UNLESS NOTED OR APPROVED OTHERWISE.
12. PROVIDE TEMPORARY ENCLOSURES AND SITE FENCING WHERE INDICATED, OR WHERE NOT INDICATED, IN LOCATIONS APPROVED BY THE ARCHITECT AT THE PRE-CONSTRUCTION CONFERENCE. KEEP ALL BUILDING EXITS ACCESSIBLE.
13. OBTAIN AND PAY FOR PERMITS AND CONNECTION FEES; PROVIDE FINAL INSPECTION CERTIFICATES AND OCCUPANCY PERMITS UPON COMPLETION."
14. NOTIFY THE ARCHITECT OF ANY DISCOVERED DISCREPANCIES BETWEEN THE WORK AND APPLICABLE CODES AND STANDARDS.
15. UNLESS NOTED OTHERWISE, ALL MATERIALS SHALL BE NEW. INSTALL MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, IN PROPER RELATION WITH EACH OTHER AND WITH ADJACENT CONSTRUCTION.
16. ANTICIPATE AND MAKE ARRANGEMENTS WITH LOCAL GOVERNMENT AGENCIES SHOULD ENTRY ONTO, OR OBSTRUCTION OF, A PUBLIC WAY BE NECESSARY IN CONNECTION WITH THE WORK.
17. THE OWNER'S SURVEYOR HAS PROVIDED SURVEY INFORMATION INCLUDED IN THIS SET. ARCHITECT IS NOT RESPONSIBLE FOR THIS INFORMATION.
18. PROVIDE SITE DEMOLITION/UTILITY RELOCATIONS AS NECESSARY FOR COMPLETION OF THE PROJECT. VERIFY EXISTING UTILITIES AND EXACT LOCATIONS PRIOR TO PERFORMING WORK. NOTIFY THE ARCHITECT REGARDING EXISTING SITE CONDITIONS IN CONFLICT WITH THE DOCUMENTS.
19. MAINTAIN INTERIOR MOISTURE LEVELS WITHIN THE RECOMMENDATIONS OF THE MANUFACTURERS OF PRODUCTS TO BE INSTALLED. NOTIFY ARCHITECT SHOULD THIS NOT BE POSSIBLE.
20. EQUIPMENT AND DEVICE LOCATIONS ARE SHOWN ON THE DRAWINGS. CONFIRM DISCREPANCIES AND QUESTIONS WITH THE ARCHITECT.
21. EXERCISE CARE TO AVOID DAMAGE TO EXISTING WORK, ADJACENT SURFACES, AND ADJOINING AREAS INCLUDING AREAS TO REMAIN AS A PART OF THE COMPLETED CONSTRUCTION. REPAIR OR RESTORE AREAS OR SURFACES DAMAGED OR REMOVED ON ACCOUNT OF CONSTRUCTION WORK
22. PROVIDE AND INSTALL ALL ITEMS UNLESS NOTED OTHERWISE.
23. WORK INDICATED AS "NOT IN CONTRACT", "N.I.C", OR "BY OTHERS" SHALL BE PERFORMED BY OWNER'S SEPARATE CONTRACTORS. ASSIST IN COORDINATING THE WORK BY SEPARATE CONTRACTORS WITH THE WORK OF THIS CONTRACT.
24. ALL PLAN DIMENSIONS ARE TO FACE OF STUD, FACE OF MASONRY, FACE OF SLAB, OR CENTERLINE OF COLUMN.
25. AS A PRE-CONDITION TO SUBSTANTIAL COMPLETION, PROVIDE A SURVEY CONTAINING FLOOR, MECHANICAL EQUIPMENT, ELECTRICAL PANELS, EQUIPMENT AND DEVICE ELEVATIONS CONFIRMING THAT THEY ARE LOCATED ABOVE DESIGN FLOOD ELEVATION.
26. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL LOCATIONS OF CONSTRUCTION.
27. COORDINATE ROOFTOP EQUIPMENT AND PENETRATIONS WITH MECHANICAL AND ELECTRICAL DRAWINGS. FLASH ALL PENETRATIONS IN ACCORDANCE WITH THE ROOFING MANUFACTURER'S RECOMMENDATIONS. PROVIDE POSITIVE DRAINAGE ON HIGH-SIDE OF PENETRATIONS.
28. ALL WORK IS TO HAVE A ONE YEAR WARRANTY, MINIMUM.
29. NAMING A CERTAIN BRAND OR MANUFACTURER IS TO DESIGNATE THE GENERAL STYLE, TYPE, CHARACTER, AND QUALITY STANDARD OF THE PRODUCT DESIRED. SUBSTITUTION REQUESTS MUST BE SUBMITTED PRIOR TO BIDDING.
30. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY APPARATUS, MEANS, METHODS, AND TECHNIQUES, AS REQUIRED TO ENSURE THE HEALTH, SAFETY, AND WELFARE OF ALL PERSONNEL INCLUDING, BUT NOT LIMITED TO: STAFF, FACULTY, STUDENTS, AND THE GENERAL PUBLIC, IN AND AROUND THE SITE.
31. INTERIOR WALLS AND CEILING SHALL HAVE A FLAME SPREAD OF 0-200 AND A SMOKE DEVELOPMENT RATING OF 0-450.
32. PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED BY APPROVED FIRESTOP SYSTEMS OR DEVICES TESTED IN ACCORDANCE WITH ASTM E-814 OR ANSI/UL 1479.
33. CONCEALED INSULATION SHALL HAVE A FLAME SPREAD OF 0- 25 AND A SMOKE DEVELOPMENT FACTOR OF 0-450.
34. DEMOLITION SHALL BE PERFORMED IN AN ORDERLY SEQUENCE, SCHEDULED BY THE CONTRACTOR AND COORDINATED WITH THE OWNER. SHOULD HAZARDOUS MATERIALS, OR MATERIALS SUSPECTED TO BE HAZARDOUS BE ENCOUNTERED, THE CONTRACTOR SHALL NOT PROCEED AND IMMEDIATELY CALL TO THE ATTENTION OF THE OWNER. ALL HAZARDOUS WASTE SHALL BE CONTAINED, ABATED, REMOVED, AND DISPOSED OF IN ACCORDANCE WITH FEDERAL REGULATIONS, LA.D.E.Q. AND THE OWNER'S ASBESTOS MANAGEMENT PLAN.

SYMBOLS

NOTE: ALL OF THE SYMBOLS AND ABBREVIATIONS APPEARING ON THIS SHEET MAY NOT NECESSARILY BE USED ON THIS PROJECT. FOR ADDITIONS TO AND/OR DEVIATIONS FROM THESE STANDARDS, REFER TO THE APPLICABLE DISCIPLINE'S WORK THROUGHOUT THE SET OF DRAWINGS.

- 0.000 — NEW ELEVATION
- 0.000 — EXISTING ELEVATION
- A — COLUMN MARK
- 100' - 0" — LEVEL LINE, CONTROL POINT OR DATUM
- BREAK LINE
- 101a — ROOM NUMBER
- ℄ — CENTERLINE
- FEC — FIRE CABINET AND EXTINGUISHER
- 1 — REVISION NOTE (CLOUDED AREA DENOTES REVISIONS OCCUR IN THIS AREA)
- A — WINDOW TAG
- A01 — MISCELLANEOUS TAG
- 101a — DOOR TAG
- 0000 — KEYNOTE
- 0A0 — WALL TYPE
- 1/A011 — PHOTO TAG

DRAWING NUMBER / SHEET NUMBER

- 1 / A501 — BUILDING SECTION
- 1 / A701 — DETAIL SECTION
- 1 / A401 — ELEVATION
- 1 / A801 / 2 — INTERIOR ELEVATION
- 1/A801 — INTERIOR ELEVATION

ABBREVIATIONS

#	NUMBER	LS	LIFE SAFETY
@	AT	LVT	LUXURY VINYL TILE
AFF	ABOVE FINISHED FLOOR	MANUF	MANUFACTURER
ACT	ACOUSTICAL CEILING TILE	MAX	MAXIMUM
ADJ	ADJACENT	MB	MARKER BOARD
AHU	AIR HANDLING UNIT	MDF	MEDIUM DENSITY FIBERBOARD
ALT	ALTERNATE		
ALUM	ALUMINUM	MECH	MECHANICAL
APC	ACOUSTICAL PANEL CEILING BOARD	MEP	MECHANICAL, ELECTRICAL, & PLUMBING
BFE	BASE FLOOD ELEVATION	MIN	MINIMUM
BLDG	BUILDING	MOD BIT	MODIFIED BITUMEN
BO	BOTTOM OF	MTL	METAL
BOS	BOTTOM OF STEEL	N/A	NOT APPLICABLE
CIP	CAST-IN-PLACE	NIC	NOT IN CONTRACT
CJ	CONTROL JOINT	NO	NUMBER
CL	CENTERLINE	NOM	NOMINAL
CLG	CEILING	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
CO	CLEANOUT	OF/CI	OWNER-FURNISHED/ CONTRACTOR INSTALLED
CONC	CONCRETE		
CONT	CONTINUOUS	OH	OPPOSITE HAND
CPT	CARPET	OPP	OPPOSITE
CT	CERAMIC TILE	OVHD	OVERHEAD
DF	DRINKING FOUNTAIN	PERF	PERFORATED
DFE	DESIGN FLOOD ELEVATION	PERM	PERMEABLE
DIA	DIAMETER	PLAM	PLASTIC LAMINATE
DN	DOWN	PLWD	PLYWOOD
DS	DOWNSPOUT	PT	PRESSURE TREATED
DW	DISHWASHER	PTD	PAINTED
DWG	DRAWING	RB	RESILIENT BASE
EA	EACH	RCP	REFLECTED CEILING PLAN
EJ	EXPANSION JOINT	RD	ROOF DRAIN
ELEC	ELECTRICAL	RE	REFER
ELEV	ELEVATION	REQ'D	REQUIRED
EOS	EDGE OF SLAB	REV	REVISION
EQ	EQUAL	RM	ROOM
EXIST	EXISTING	RO	ROUGH OPENING
EXP	EXPANSION	SB	SMART BOARD
EXT	EXTERIOR	SCW	SOLID CORE WOOD
EWC	ELECTRIC WATER COOLER	SIM	SIMILAR
FD	FLOOR DRAIN	SPEC	SPECIFIED OR SPECIFICATION
FDRM	FLOOD DAMAGE RESISTANT MATERIAL	SS	STAINLESS STEEL
		STC	SOUND TRANSMISSION COEFFICIENT
FE	FIRE EXTINGUISHER		
FEC	FIRE EXTINGUISHER CABINET	STL	STEEL
FF	FINISH FLOOR	SQ	SQUARE
FOF	FACE OF FINISH	T&G	TONGUE & GROOVE
FOS	FACE OF STUD	TB	TACK BOARD
FRP	FIBER REINFORCED PLASTIC	TBD	TO BE DETERMINED
FT	FOOT OR FEET	TEL	TELEPHONE
GA	GAUGE	TEMP	TEMPORARY
GALV	GALVANIZED	T.O.	TOP OF
GC	GENERAL CONTRACTOR	TOS	TOP OF STEEL
GYP	GYPSUM	TS	TUBE STEEL
GYP BD	GYPSUM BOARD	TYP	TYPICAL
HC	HANDICAPPED	UNO	UNLESS NOTED OTHERWISE
HDWR	HARDWARE	VCT	VINYL COMPOSITE TILE
HM	HOLLOW METAL	VIF	VERIFY IN FIELD
HVAC	HEATING, VENTILATION & AIR CONDITIONING	VPAB	VAPOR PERMEABLE AIR BARRIER
		W/	WITH
IN	INCHES	W/O	WITHOUT
INCL	INCLUDED	WB	WOOD BASE
INFO	INFORMATION	WD	WOOD
INT	INTERIOR	WH	WATER HEATER
J-BOX	JUNCTION BOX	WWF	WELDED WIRE FABRIC
JNT	JOINT		
KDAT	KILN-DRIED AFTER TREATMENT		

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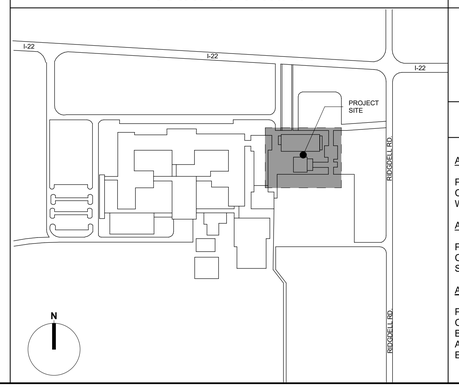
VICINITY MAP



PROJECT INFORMATION

PROJECT DESCRIPTION: THE PROJECT CONSISTS OF A NEW 2-STORY 18 CLASSROOM BUILDING WITH SUPPORT SPACES AND A NEW DINING HALL/KITCHEN WITH CONNECTING STRUCTURES BETWEEN THE 2 BUILDINGS AND ASSOCIATED SITEWORK.

PROJECT ADDRESS: 19452 LA-22, PONCHATOULA, LA 70454

ALTERNATE LIST

ADDITIVE ALTERNATE #1 - FULL-SERVICE KITCHEN

PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS AS REQUIRED TO CONSTRUCT A FULL SERVICE KITCHEN ATTACHED TO THE DINING HALL IN LIEU OF THE WARMING KITCHEN IN THE BASE BID SCOPE.

ADDITIVE ALTERNATE #2 - OUTDOOR DINING PAVILION

PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS AS REQUIRED TO CONSTRUCT AN OUTDOOR DINING PAVILION ATTACHED TO THE DINING HALL/FULL SERVICE KITCHEN BUILDING.

ADDITIVE ALTERNATE #3 - CONNECTING CORRIDORS

PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS AS REQUIRED TO CONSTRUCT A CONNECTING CORRIDOR ADDITION BETWEEN THE EXISTING CLASSROOM BUILDING AND THE NEW CLASSROOM BUILDING AND THE NEW CLASSROOM BUILDING AND THE NEW DINING HALL/FULL SERVICE KITCHEN BUILDING. BASE BID SCOPE SHALL BE EXTERIOR COVERED CONCRETE WALKWAYS.

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PONCHATOULA HIGH SCHOOL 18
CLASSROOM ADD. & CAFETERIA
19452 LA-22, PONCHATOULA, LA 70454

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	
QUALITY CONTROL	

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BID DOCUMENTS

G101

GENERAL INFORMATION

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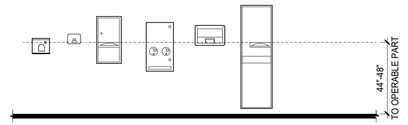
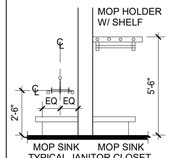
Autodesk Docs://PHS 18 Classroom Add & Cafeteria/25005 - PHS - 18 CR ADDITION_2025.rvt

6" 3" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

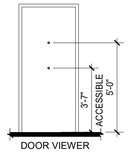
TYPICAL MOUNTING HEIGHTS



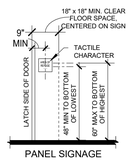
MOUNTING HEIGHTS FOR RESTROOM ACCESSORIES WITH OPERABLE PARTS



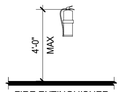
MOP SINK TYPICAL JANITOR CLOSET



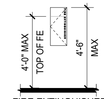
DOOR VIEWER



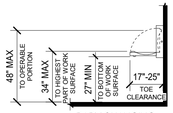
PANEL SIGNAGE



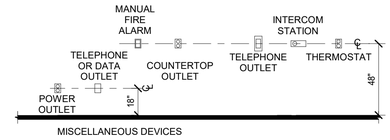
FIRE EXTINGUISHER



FIRE EXTINGUISHER CABINET



BABY CHANGING STATION

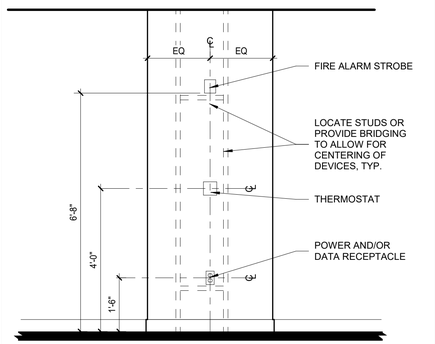


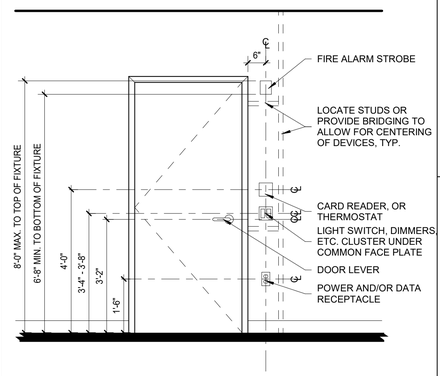
MISCELLANEOUS DEVICES

NOTE:

- ALL ITEMS INDICATED ABOVE THAT ARE TO BE RECESS MOUNTED SHALL BE VERIFIED AGAINST STUD DEPTH / CAVITY SO AS TO ENSURE PROPER FIT. RATED ASSEMBLIES ARE TO BE MAINTAINED FOR ALL RECESSED COMPONENTS WHERE INSTALLED IN FIRE RATED PARTITION.
- ALL LIFE SAFETY, ELECTRICAL AND DATA DEVICES AND COVER PLATES SHALL BE **WHITE**, UNLESS NOTED OTHERWISE.

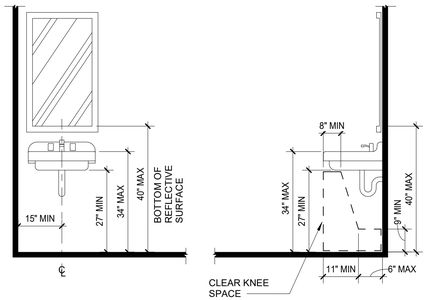
TYPICAL DEVICE LOCATIONS



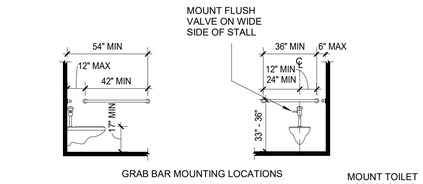


ACCESSIBILITY REQUIREMENTS

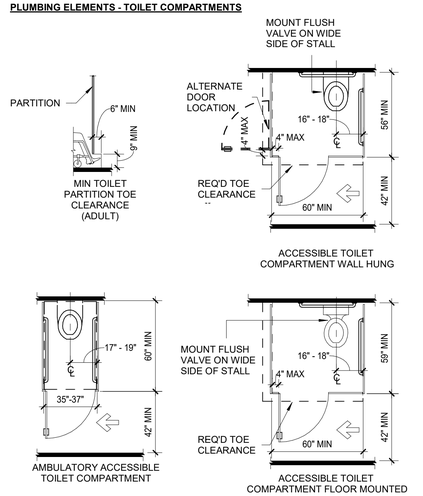
PLUMBING ELEMENTS - LAVATORIES



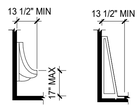
PLUMBING ELEMENTS - WATER CLOSETS



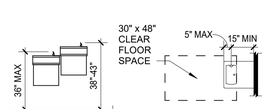
PLUMBING ELEMENTS - TOILET COMPARTMENTS



PLUMBING ELEMENTS - URINALS

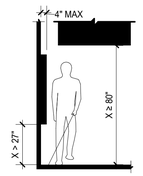


PLUMBING ELEMENTS - DRINKING FOUNTAINS

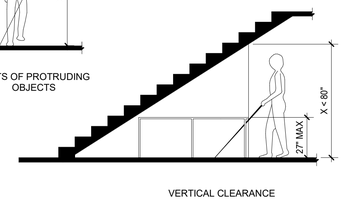


ACCESSIBILITY REQUIREMENTS

VERTICAL CLEARANCES / PROTRUDING OBJECTS



LIMITS OF PROTRUDING OBJECTS



VERTICAL CLEARANCE

CHANGES IN LEVEL

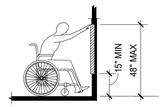


VERTICAL

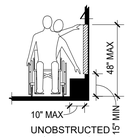


BEVELED

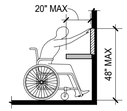
REACH RANGES



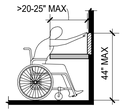
UNOBSTRUCTED FORWARD REACH



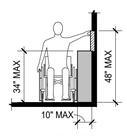
UNOBSTRUCTED SIDE REACH



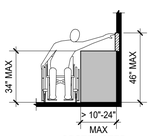
UNOBSTRUCTED HIGH FORWARD REACH



UNOBSTRUCTED HIGH FORWARD REACH

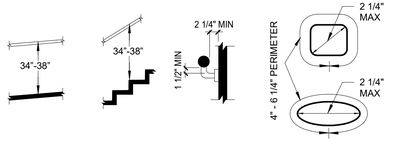


OBSTRUCTED HIGH SIDE REACH



OBSTRUCTED HIGH SIDE REACH

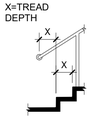
HANDRAILS



HANDRAIL EXTENSIONS







ACCESSIBILITY REQUIREMENTS

UNLESS NOTED OTHERWISE IN THE DOCUMENTS, ALL ACCESSIBLE COMPONENTS OF THE PROJECT SHALL MEET THE MINIMUM REQUIREMENTS OUTLINED BELOW. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THESE REQUIREMENTS & THE ACTUAL FIELD CONDITIONS TO THE ARCHITECT

GENERAL NOTES

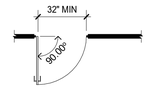
A. DIMENSIONS ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.

B. PROVIDE SOLID BLOCKING BEHIND ALL WALL-MOUNTED COMPONENTS.

C. SEE THE PLANS FOR ALL ADDITIONAL TOILET ACCESSORIES AND ACTUAL ROOM DIMENSIONS.

D. ACCESSIBILITY DIAGRAMS ILLUSTRATED ARE STANDARD. ALL ITEMS SHOWN ON THIS SHEET MAY NOT BE PRESENT ON THIS PROJECT. IF AN ITEM IS PRESENT ON THIS PROJECT AND DOES NOT COMPLY WITH THESE STANDARDS, NOTIFY THE ARCHITECT BEFORE INSTALLATION OF ITEM.

CLEAR WIDTH OF DOORWAYS

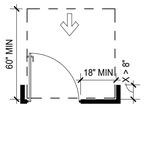


HINGED DOOR

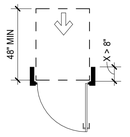


SLIDING DOOR

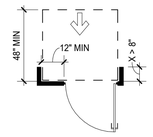
MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES



PULL SIDE

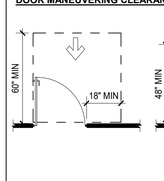


PUSH SIDE

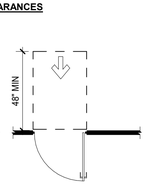


PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH

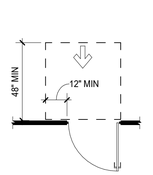
DOOR MANEUVERING CLEARANCES



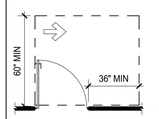
FRONT APPROACH, PULL SIDE



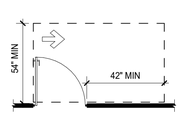
FRONT APPROACH, PUSH SIDE



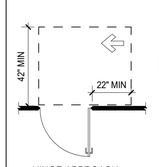
FRONT APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH



HINGE APPROACH, PULL SIDE



HINGE APPROACH, PULL SIDE



HINGE APPROACH, PUSH SIDE

HINGE APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH

LATCH APPROACH, PULL SIDE

LATCH APPROACH, PULL SIDE, DOOR PROVIDED WITH CLOSER

LATCH APPROACH, PUSH SIDE

LATCH APPROACH, PUSH SIDE, DOOR PROVIDED WITH CLOSER

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PONCHATOULA HIGH SCHOOL 18
CLASSROOM ADD. & CAFETERIA
19452 LA-22, PONCHATOULA, LA 70454

PIERRE E. THERIOT No. 8217 STATE OF LOUISIANA REGISTERED ARCHITECT

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	
QUALITY CONTROL	

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BID DOCUMENTS

G102

ACCESSIBILITY GUIDELINES

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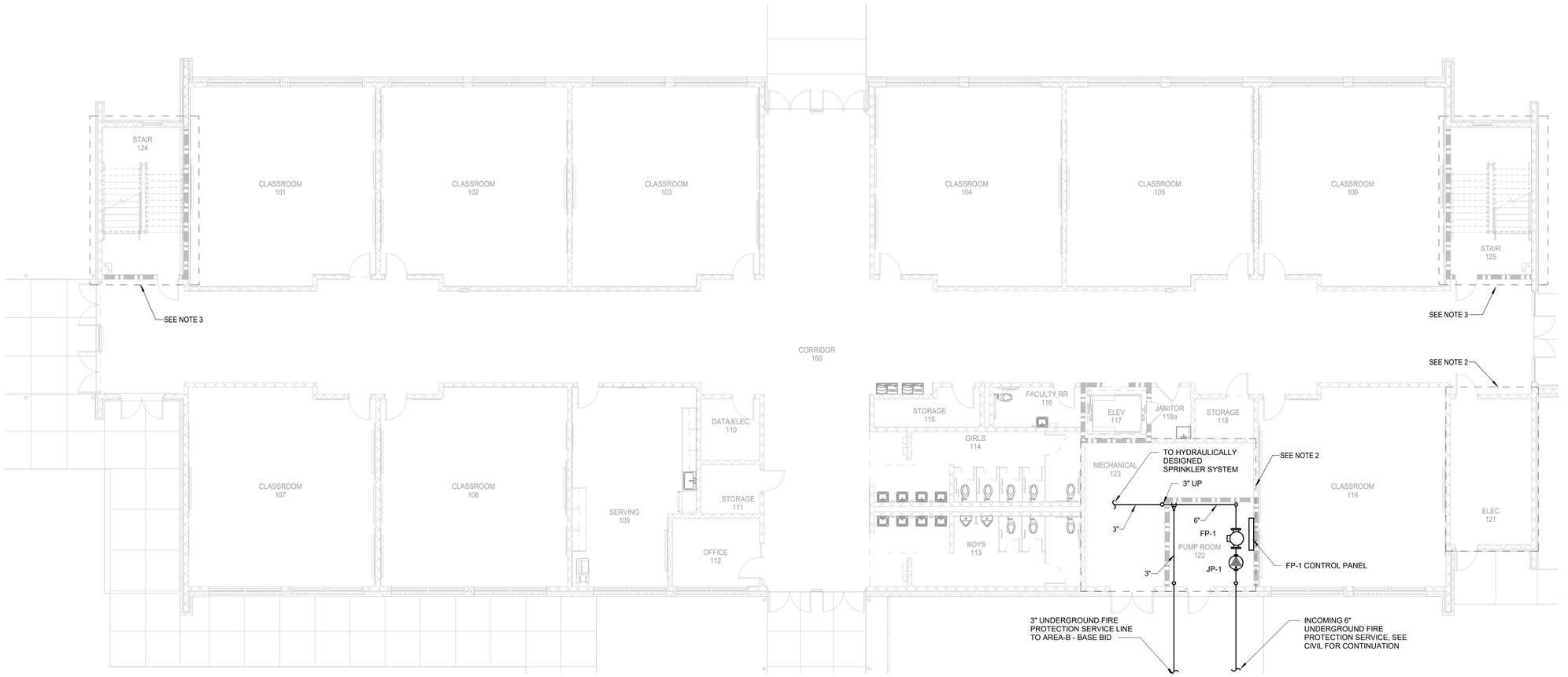
6" 3" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

FIRE PROTECTION GENERAL PLAN NOTES:

1. SEE SHEET FP501 FOR LEGEND, NOTES, SPECIFICATIONS, AND ABBREVIATIONS.
2. ROOMS 121, 122 AND 123 ARE OPEN STRUCTURE WITH NO CEILING.
3. THE SECOND-FLOOR LANDING LEVEL ABOVE STAIR SHALL REMAIN OPEN TO THE HIGH CEILING/ROOF STRUCTURE ABOVE AS SHOWN. REFER TO ARCHITECTURAL PLANS AND BUILDING SECTIONS FOR EXTENT OF CEILING AND OPEN VOLUME.
4. PROVIDE FIRE SPRINKLER PROTECTION THROUGHOUT CONCEALED COMBUSTIBLE ATTIC SPACES. COORDINATE SPRINKLER LAYOUT WITH ROOF FRAMING AND PROVIDE ALL REQUIRED SPRINKLERS, PIPING, AND ACCESSORIES.



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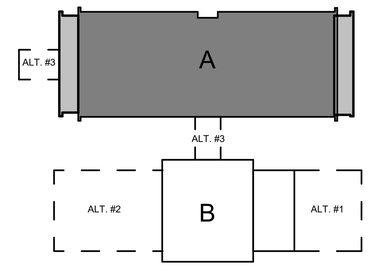
1 1ST FLOOR FIRE PROTECTION PLAN - AREA A - BASE BID
Scale: 1/8" = 1'-0"

KEY PLAN



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STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
10/08/2026

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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BID DOCUMENTS

Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809

Registration: 0008168
Project No: 2550-01207

FP101a

1ST FLOOR FIRE PROTECTION PLAN - AREA A - BASE BID

H/S

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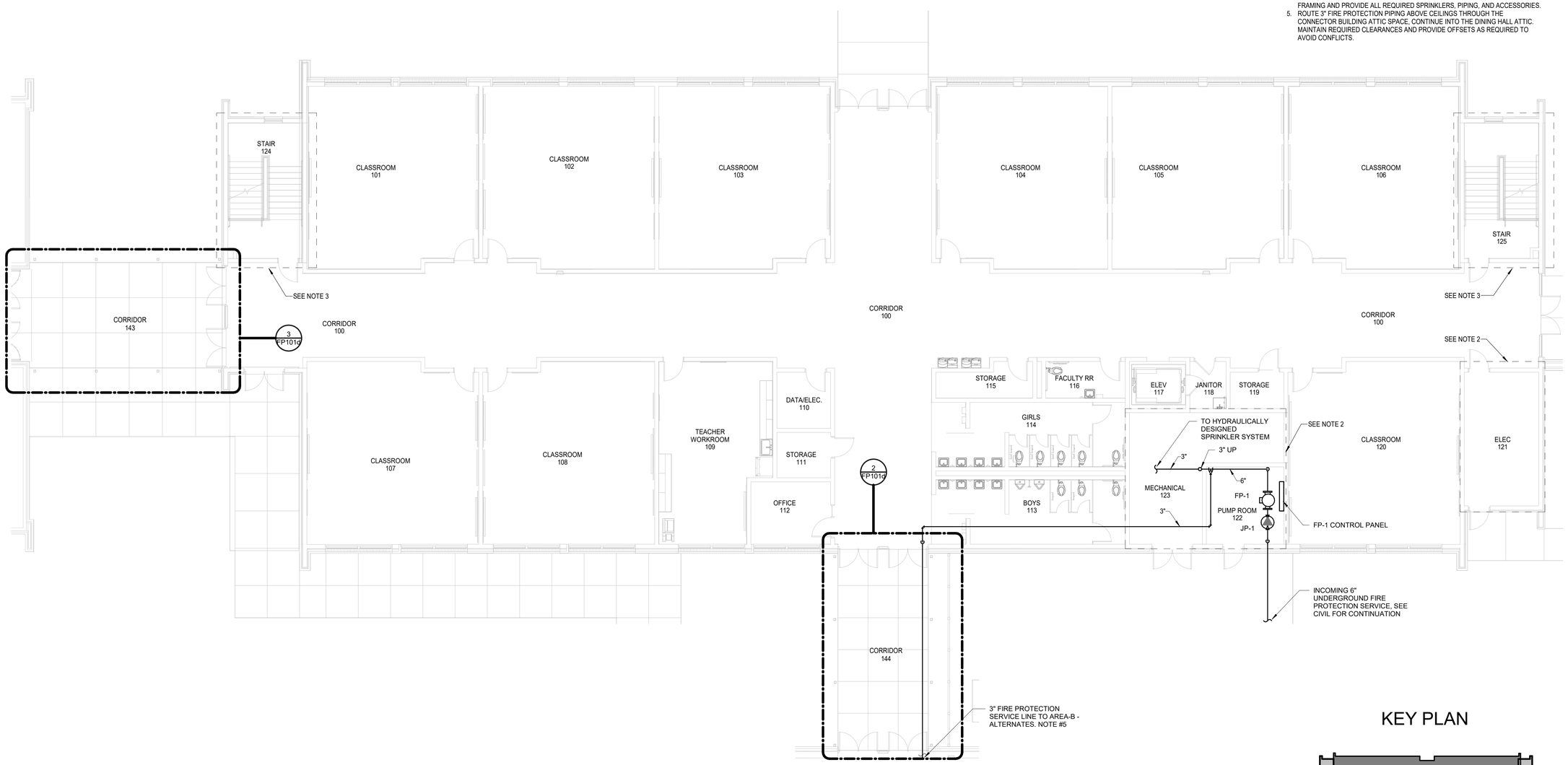
1" 3/4" 1/2" 0" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

FIRE PROTECTION GENERAL PLAN NOTES:

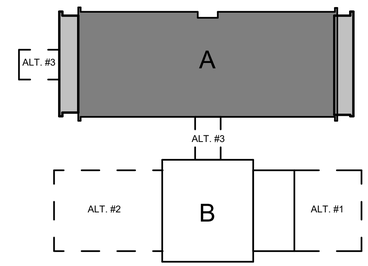
1. SEE SHEET FP501 FOR LEGEND, NOTES, SPECIFICATIONS, AND ABBREVIATIONS.
2. ROOMS 121, 122 AND 123 ARE OPEN STRUCTURE WITH NO CEILING.
3. THE SECOND-FLOOR LANDING LEVEL ABOVE STAIR SHALL REMAIN OPEN TO THE HIGH CEILING/ROOF STRUCTURE ABOVE AS SHOWN. REFER TO ARCHITECTURAL PLANS AND BUILDING SECTIONS FOR EXTENT OF CEILING AND OPEN VOLUME.
4. PROVIDE FIRE SPRINKLER PROTECTION THROUGHOUT CONCEALED COMBUSTIBLE ATTIC SPACES. COORDINATE SPRINKLER LAYOUT WITH ROOF FRAMING AND PROVIDE ALL REQUIRED SPRINKLERS, PIPING, AND ACCESSORIES.
5. ROUTE 3" FIRE PROTECTION PIPING ABOVE CEILINGS THROUGH THE CONNECTOR BUILDING ATTIC SPACE, CONTINUE INTO THE DINING HALL ATTIC. MAINTAIN REQUIRED CLEARANCES AND PROVIDE OFFSETS AS REQUIRED TO AVOID CONFLICTS.



N

1 **1ST FLOOR FIRE PROTECTION PLAN - AREA A - ALTERNATES**
Scale: 1/8" = 1'-0"

KEY PLAN



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DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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FP101b

1ST FLOOR FIRE PROTECTION PLAN - AREA A - ALTERNATES

H/S

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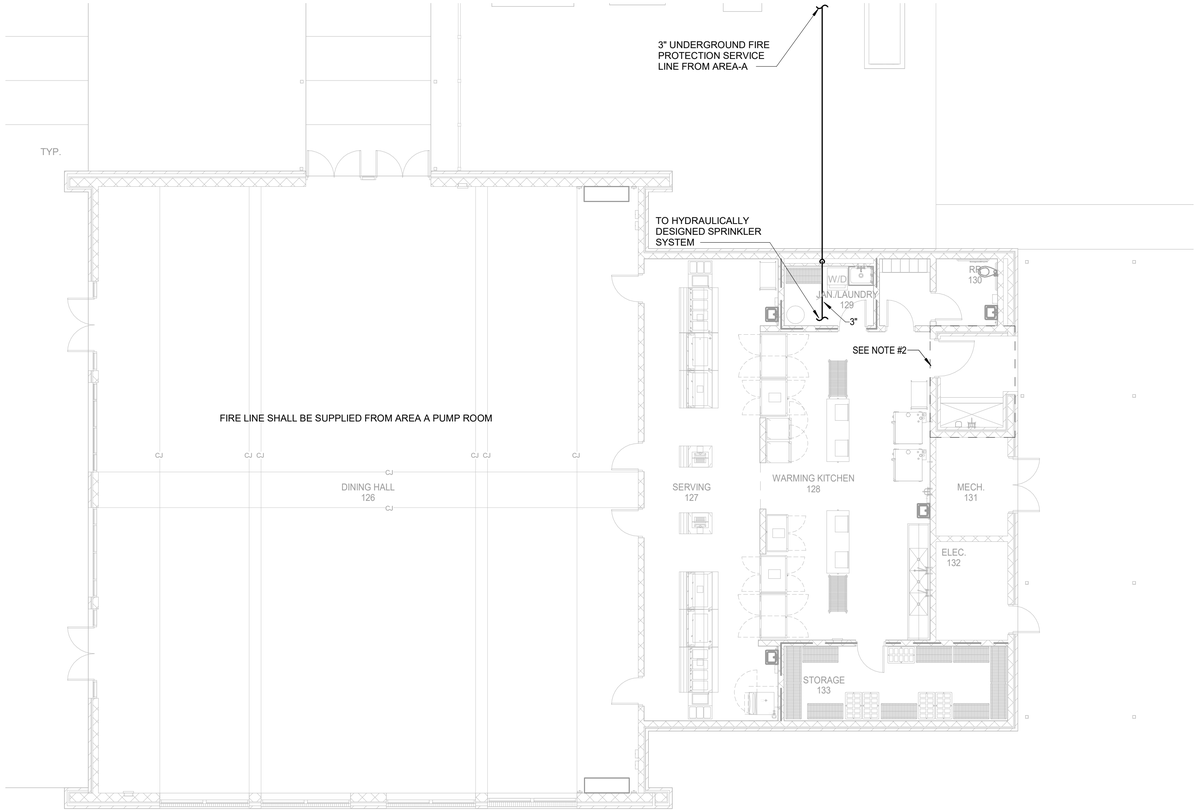


N

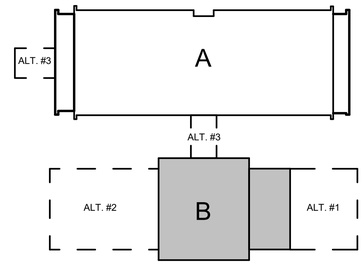
1 1ST FLOOR FIRE PROTECTION PLAN - AREA B - BASE BID

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

FIRE PROTECTION GENERAL PLAN NOTES:

1. SEE SHEET FP501 FOR LEGEND, NOTES, SPECIFICATIONS, AND ABBREVIATIONS.
2. PROVIDE DRY SPRINKLER HEAD FOR THIS AREA.
3. PROVIDE FIRE SPRINKLER PROTECTION THROUGHOUT CONCEALED COMBUSTIBLE ATTIC SPACES. COORDINATE SPRINKLER LAYOUT WITH ROOF FRAMING AND PROVIDE ALL REQUIRED SPRINKLERS, PIPING, AND ACCESSORIES.

KEY PLAN



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STATE OF LOUISIANA
DAVID BONAVENTURE
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PROFESSIONAL ENGINEER
10/08/2026

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
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FP101c

1ST FLOOR FIRE PROTECTION PLAN - AREA B - BASE BID

H/S

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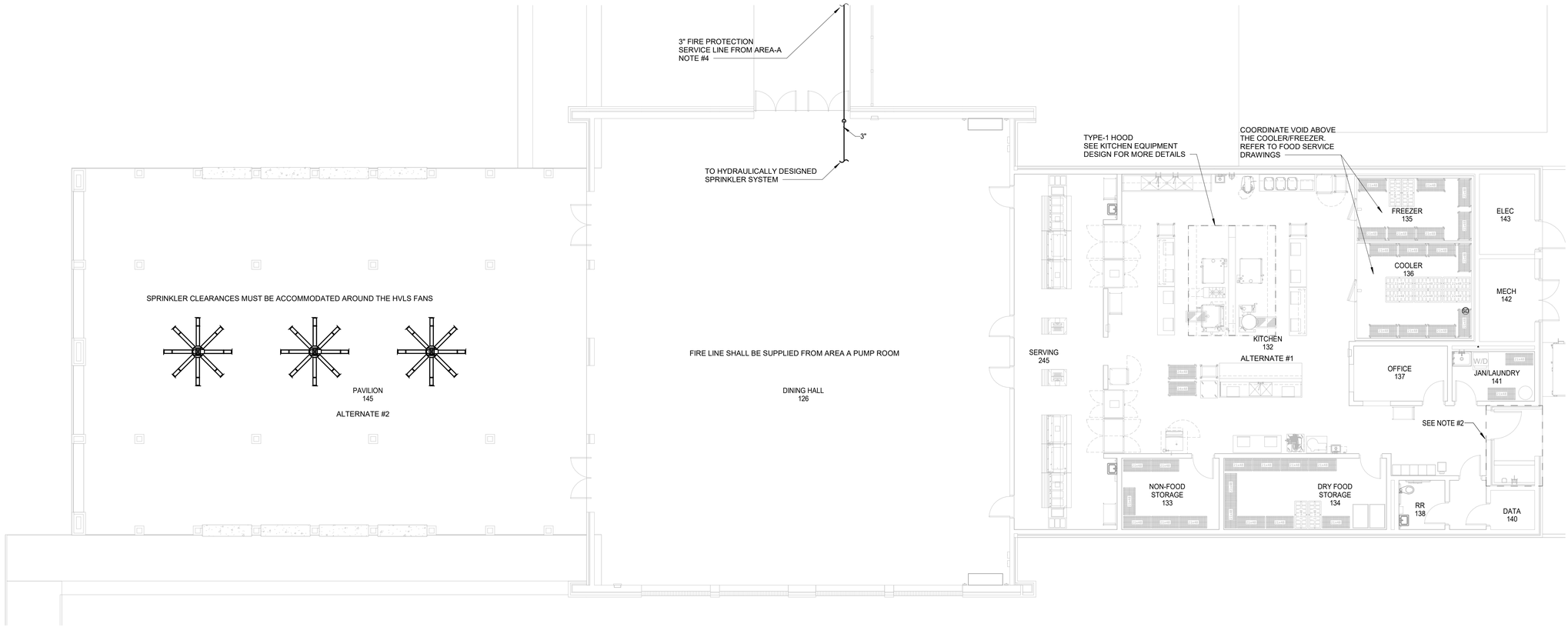
FIRE PROTECTION GENERAL PLAN NOTES:

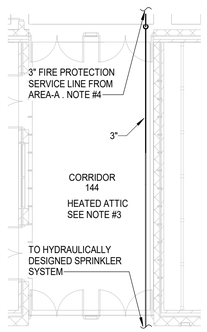
1. SEE SHEET FP501 FOR LEGEND, NOTES, SPECIFICATIONS, AND ABBREVIATIONS.
2. PROVIDE DRY SPRINKLER HEAD FOR THIS AREA.
3. PROVIDE FIRE SPRINKLER PROTECTION THROUGHOUT CONCEALED COMBUSTIBLE ATTIC SPACES. COORDINATE SPRINKLER LAYOUT WITH ROOF FRAMING AND PROVIDE ALL REQUIRED SPRINKLERS, PIPING, AND ACCESSORIES.
4. ROUTE 3" FIRE PROTECTION PIPING ABOVE CEILINGS THROUGH THE CONNECTOR BUILDING ATTIC SPACE, CONTINUE INTO THE DINING HALL ATTIC. MAINTAIN REQUIRED CLEARANCES AND PROVIDE OFFSETS AS REQUIRED TO AVOID CONFLICTS.



N

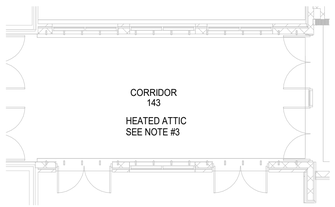
1 1ST FLOOR FIRE PROTECTION PLAN - AREA B - ALTERNATES #1, #2

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



2 1ST FLOOR FIRE PROTECTION PLAN - ALTERNATE #3 SOUTH

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

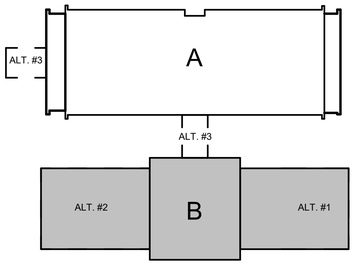


N

3 1ST FLOOR FIRE PROTECTION PLAN - ALTERNATE #3 WEST

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

KEY PLAN



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FP101d

1ST FLOOR FIRE PROTECTION PLAN - AREA B - ALTERNATES

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FIRE PROTECTION GENERAL PLAN NOTES:

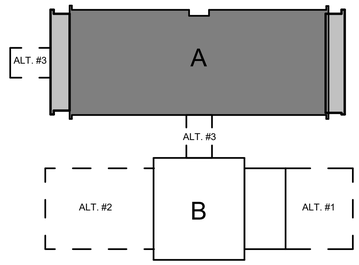
1. SEE SHEET FP501 FOR LEGEND, NOTES, SPECIFICATIONS, AND ABBREVIATIONS.
2. SLOPED GYPSUM BOARD CEILING (CATHEDRAL CEILING) AT STAIRWELL AND SECOND-FLOOR VESTIBULE. FIRE SPRINKLER INSTALLATION SHALL BE COORDINATED WITH THE SLOPED ROOF FRAMING.
3. PROVIDE FREEZE PROTECTION AS REQUIRED BY APPLICABLE CODES, STANDARDS, AND AHJ REQUIREMENTS.
4. ROUTE PIPING THROUGH FRAMING AS PERMITTED OR PROVIDE SIDEWALL SPRINKLERS.
5. FOR MORE INFORMATION REFER TO ARCHITECTURAL PLANS.
6. PROVIDE FIRE SPRINKLER PROTECTION THROUGHOUT CONCEALED COMBUSTIBLE ATTIC SPACES. COORDINATE SPRINKLER LAYOUT WITH ROOF FRAMING AND PROVIDE ALL REQUIRED SPRINKLERS, PIPING, AND ACCESSORIES.



N

1 **2ND FLOOR FIRE PROTECTION PLAN - AREA A - BASE BID**
Scale: 1/8" = 1'-0"

KEY PLAN



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PROJECT MANAGER	Author
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FP102a

2ND FLOOR FIRE PROTECTION PLAN - AREA A

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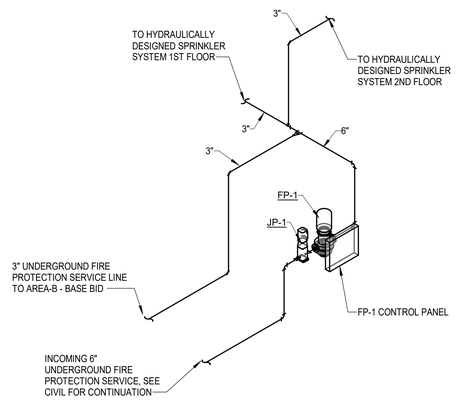
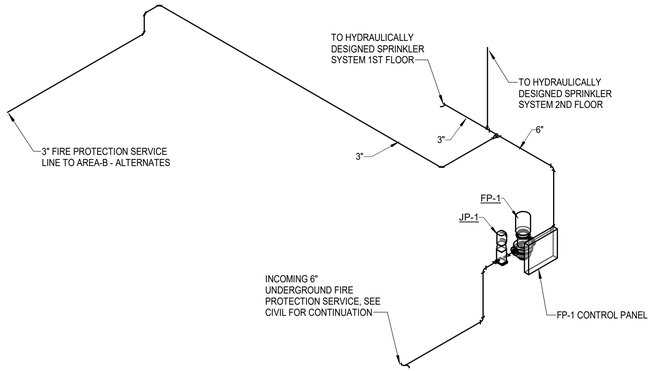
FIRE PROTECTION GENERAL PLAN NOTES:

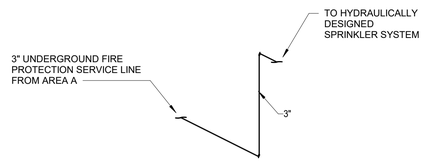
1. SEE SHEET FP501 FOR LEGEND, NOTES, SPECIFICATIONS, AND ABBREVIATIONS.



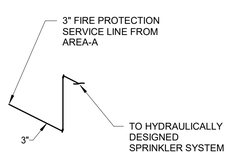
2 FIRE PROTECTION RISER DIAGRAM - AREA A - BASE BID
Scale:



1 FIRE PROTECTION RISER DIAGRAM - AREA A - ALTERNATES
Scale:



4 FIRE PROTECTION RISER DIAGRAM - AREA B - BASE BID
Scale:



3 FIRE PROTECTION RISER DIAGRAM - AREA B - ALTERNATES #1, #2
Scale:

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FIRE PROTECTION RISER DIAGRAMA

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PUMP SCHEDULE

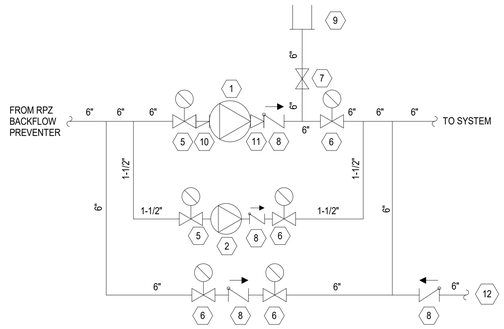
MARK	LOCATION / SERVICE	TYPE	GPM	HEAD (PSI)	SUCTION PRESSURE	MOTOR DATA					BASIS OF DESIGN		NOTES
						RPM	HP	V	PH	Hz	MANUFACTURER	MODEL NO.	
FP-1	ELECTRIC FIRE PUMP	HORIZONTAL SPLIT CASE	500	50	60 PSI	3550	20	480	3	60	AC FIRE PUMP	4X4X7F	
JP-1	JOCKEY PUMP	VERTICAL IN-LINE	7.5	80	60 PSI	3500	1	480	3	60	PENTAIR	PVM1-8	

NOTES:
1. INDICATED SUCTION PRESSURE IS AT PUMP RATED FLOW.

FLOW TEST DATA

DATE OF TEST:	6/25/2025
TIME OF TEST:	11:10:00 AM
PERFORMED BY:	x
LOCATION OF STATIC HYDRANT:	Hwy 22 @ Saucier Rd (Ponchatoula, Louisiana)
LOCATION OF FLOWING HYDRANT:	Hwy 22 @ Saucier Rd (Ponchatoula, Louisiana)
ELEVATION:	NA

TEST DATA:	STATIC HYDRANT	FLOWING HYDRANT
READING	64 PSI	0 GPM
	43 PSI	1270 GPM

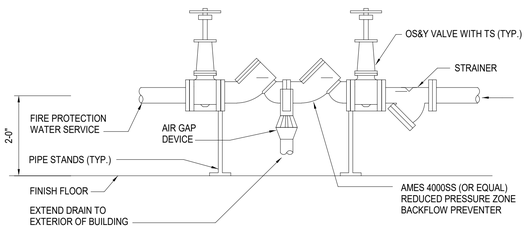


FIRE PUMP SCHEMATIC KEY NOTES

1. FIRE PUMP
2. JOCKEY PUMP
3. FIRE PUMP CONTROLLER W/ AUTOMATIC TRANSFER SWITCH, PROVIDE WITH LOAD SHEDDING SIGNALIZATION - SEE FLOOR PLAN
4. JOCKEY PUMP CONTROLLER - SEE FLOOR PLAN
5. OS&Y GATE VALVE W/ TAMPER SWITCH
6. CONTROL VALVE W/ TAMPER SWITCH
7. CONTROL VALVE W/ TAMPER SWITCH (NORMALLY CLOSED)
8. CHECK VALVE
9. PUMP TEST HEADER W/ 3, 2-1/2" HOSE VALVES
10. ECCENTRIC REDUCER (FLAT ON TOP)
11. CONCENTRIC INCREASER
12. FIRE DEPARTMENT CONNECTION W/ 3, 2-1/2" HOSE VALVES

FIRE PUMP SCHEMATIC

SCALE: NONE



FIRE PROTECTION WATER SERVICE ENTRANCE

SCALE: NONE

FIRE PROTECTION LEGEND

NEW WORK

F	FIRE PROTECTION PIPING (WET PIPE)
DP	FIRE PROTECTION PIPING (DRY PIPE)
PA	FIRE PROTECTION PIPING (PRE-ACTION)
DL	FIRE PROTECTION PIPING (DELUGE)
D	DRAIN
	PIPE TURNING DOWN
	PIPE TURNING UP
	TEE TURNING DOWN
	TEE TURNING UP
	PIPE CAP
TS	CONTROL VALVE WITH TAMPER SWITCH
FS	FLOW SWITCH
	POST INDICATING VALVE
	VALVE (WITHOUT TAMPER SWITCH)
	VALVE IN ROADWAY BOX
	CHECK VALVE
	PRESSURE REDUCING/REGULATING VALVE
	HOSE VALVE
	HOSE VALVE CABINET
	INSPECTOR'S TEST AND DRAIN VALVE
	ALARM CHECK VALVE
	DRY PIPE VALVE
	PREACTION VALVE
	DELUGE VALVE
	PRESSURE GAGE
BFP	BACKFLOW PREVENTER (REDUCED PRESSURE ZONE)
	BACKFLOW PREVENTER (DOUBLE CHECK)
	PUMP
WMG	WATER MOTOR GONG
	ALARM BELL
	FIRE DEPARTMENT CONNECTION (WALL MOUNTED)
	FIRE DEPARTMENT CONNECTION (FREESTANDING)
	PUMP TEST HEADER (WALL MOUNTED)
	PUMP TEST HEADER (FREE STANDING)
	UPRIGHT HEAD
	PENDENT HEAD
	PENDENT HEAD (RECESSED)
	PENDENT HEAD (CONCEALED)
	SIDEWALL HEAD
	OPEN HEAD
	UPRIGHT HEAD WITH WIRE GUARD
	PENDENT HEAD WITH WIRE GUARD
DP	DRY PENDENT HEAD
CR	CORROSION RESISTANT HEAD (UPRIGHT TYPE SHOWN)

ABBREVIATIONS

@	AT
°	DEGREES
Δ	DELTA
∅	DIAMETER
ϕ	PHASE (ELECTRICAL)
#	POUND, NUMBER
ABV	ABOVE
AFF	ABOVE FINISH FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
AW	ACID RESISTANT WASTE
AV	ACID RESISTANT VENT
BEL	BELOW
BET	BETWEEN
BFF	BELOW FINISH FLOOR
BOT	BOTTOM
BTUH	BRITISH THERMAL UNIT/HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
℄	CENTERLINE
CNDS	CONDENSATE
CO	CLEANOUT
CONC	CONCRETE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CW	COLD WATER
D	DEEP
DIA	DIAMETER
DN	DOWN
DP	DRY-PIPE
DS	DOWNSPOUT
DET	DETAIL
DR	DRAIN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EQ	EQUAL
EQPT	EQUIPMENT
EX. (E)	EXISTING
F	FARIENHEIT, FIRE
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FIN	FINISH
FFE	FINISHED FLOOR ELEVATION
FL	FLOOR
FT	FOOT
GAL	GALLON
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
H	HIGH
HB	HOSE BIBB
HCP	HANDICAP
IE	INVERT ELEVATION
INV	INVERT
IBC	INTERNATIONAL BUILDING CODE
IPC	INTERNATIONAL PLUMBING CODE
MBH	1000 BTUH
MC	MECHANICAL CONTRACTOR
MTD	MOUNTED
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OS&Y	OUTSIDE SCREW AND YOKE
P, PLBG	PLUMBING
PC	PLUMBING CONTRACTOR
PD	PUMPED DISCHARGE
PDI	PLUMBING AND DRAINAGE INSTITUTE
PIV	POST INDICATOR VALVE
PRV	PRESSURE REDUCING (REGULATING) VALVE
PVC	POLYVINYL CHLORIDE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SHOCK ARRESTOR
SCHED	SCHEDULE
SF	SQUARE FOOT
SHT	SHEET
T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
UNO	UNLESS NOTED OTHERWISE
VAC	VACUUM
VB	VACUUM BREAKER
VLV	VALVE

FIRE PROTECTION SHEET LIST

	SHEET INDEX
04_Fire Protection	
FP101a	1ST FLOOR FIRE PROTECTION PLAN - AREA A - BASE BID
FP101b	1ST FLOOR FIRE PROTECTION PLAN - AREA A - ALTERNATES
FP101c	1ST FLOOR FIRE PROTECTION PLAN - AREA B - BASE BID
FP101d	1ST FLOOR FIRE PROTECTION PLAN - AREA B - ALTERNATES
FP102a	2ND FLOOR FIRE PROTECTION PLAN - AREA A
FP401	FIRE PROTECTION RISER DIAGRAMA
FP501	FIRE PROTECTION LEGENDS, NOTES AND DETAILS

SPRINKLER NOTES/SPECIFICATIONS

GENERAL:

1. SCOPE OF WORK: PROVIDE A COMPLETE AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13-2019.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS BEFORE COMMENCING WORK AND SHALL NOTIFY THE A/E IF A CONDITION EXISTS WHICH PREVENTS THE CONTRACTOR FROM ACCOMPLISHING THE INTENT OF THE DOCUMENTS. FAILURE TO NOTIFY THE A/E IN A TIMELY MANNER SHALL MEAN THE CONTRACTOR HAS PROCEEDED AT HIS OWN EXPENSE. NO ADDITIONAL COST WILL BE CONSIDERED FOR ANY REWORK REQUIRED BECAUSE OF EXISTING CONDITIONS NOT BEING AS INDICATED.
3. SPRINKLERS SHALL BE HYDRAULICALLY DESIGNED TO PROVIDE COVERAGE FOR LIGHT HAZARD OCCUPANCY (0.10 GPM/SF OVER THE HYDRAULICALLY MOST REMOTE 1500 SF) UNLESS NOTED OTHERWISE OR REQUIRED BY NFPA 13. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SPRINKLER HYDRAULIC CALCULATIONS.
4. HYDRAULIC CALCULATIONS SHALL BE PREPARED FOR THE HYDRAULICALLY MOST REMOTE AREA IN ACCORDANCE WITH NFPA 13 AND NFPA 14. CALCULATIONS SHALL BE PREPARED TO PROVE THAT THE SYSTEM WILL PERFORM WHEN USING THE FIRE DEPARTMENT CONNECTIONS BY THE LOCAL FIRE DEPARTMENT PUMPER TRUCKS.
5. THE CONTRACTOR SHALL OBTAIN CURRENT (LESS THAN ONE-YEAR OLD) HYDRAULIC DATA REQUIRED TO PREPARE THE HYDRAULIC CALCULATIONS.
6. APPROVAL FROM THE AUTHORITY HAVING JURISDICTION SHALL BE OBTAINED IN WRITING AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE. REGARDLESS OF LOCAL REQUIREMENTS, THE USE OF PIPE SCHEDULE METHOD SHALL BE LIMITED TO SPRINKLER SYSTEMS LESS THAN 5000 SQUARE FEET IN TOTAL AREA.
7. ALL HEADS REMOVED FOR RELOCATION SHALL NOT BE REINSTALLED AND SHALL BE REPLACED WITH NEW HEADS.
8. SUBMITTALS: THE CONTRACTOR SHALL SUBMIT HYDRAULIC CALCULATIONS AND ALL PRODUCT DATA FOR REVIEW AND ACCEPTANCE BY THE ENGINEER. THE SYSTEM SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER OR NICET DESIGNER (LEVEL III) AND SHALL BEAR THE SEAL OF THE DESIGNER. THE CONTRACTOR SHALL BE PROCEEDING AT THEIR OWN RISK IF THE CONTRACTOR CHOOSES TO PROCEED WITH THE WORK PRIOR TO ACCEPTANCE OF THE MATERIALS AND EQUIPMENT BY THE ENGINEER.
9. HYDRAULIC CALCULATIONS SHALL BE PREPARED INDICATING THAT THE MAXIMUM VELOCITY THROUGH ANY SECTION OF THE SYSTEM IS 20 FEET PER SECOND.
10. SHOP DRAWINGS ARE TO BE SUBMITTED TO THE OFFICE OF THE FIRE MARSHAL FOR PERMIT AND APPROVAL PRIOR TO INSTALLATION FOR THE FOLLOWING:
    A. FIRE PROTECTION SYSTEMS: AUTOMATIC SPRINKLER SYSTEMS, STANDPIPES, ALTERNATIVE FIRE EXTINGUISHING SYSTEMS (SUCH AS KITCHEN HOOD SUPPRESSION).
    B. ACCESS CONTROL LOCKS OR SPECIAL LOCKING ARRANGEMENTS.
    C. TANKS STORING FLAMMABLE AND COMBUSTIBLE LIQUIDS INCLUDING THOSE ASSOCIATED WITH GENERATORS.

PRODUCTS:

1. ALL EQUIPMENT SHALL BE UL-LISTED AND/OR FM-APPROVED.
2. HEADS SHALL BE CHROME, RECESSED, QUICK-RESPONSE TYPE (OR FINISH AND TYPE TO MATCH EXISTING) WITH A K-FACTOR TO MATCH EXISTING.
3. SPRINKLER PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH THREADED FITTINGS. PIPING 2-1/2" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL WITH GROOVED FITTINGS.
4. FLEXIBLE SPRINKLER HOSE FITTINGS SHALL ONLY BE USED IF HYDRAULIC CALCULATION CONFIRM THAT THE SYSTEM CAN ACCOMMODATE THE INCREASED FRICTION LOSS OF THE FLEXIBLE SPRINKLER HOSE FITTINGS. THE CONTRACTOR SHALL CONFIRM THAT CEILINGS ARE LISTED TO BE USED WITH FLEXIBLE SPRINKLER HOSE FITTINGS.
5. HANGERS SHALL BE FLAT-BAND, GALVANIZED.

INSTALLATION:

1. SPRINKLERS SHALL BE LOCATED IN THE CENTERS OF CEILING TILES AND SYMMETRICALLY ALIGNED ON THE CEILING.
2. MAXIMUM SPRINKLER SPACING SHALL NOT EXCEED THE LIMITS OF NFPA 13 AND THE LISTINGS OF SPRINKLERS.
3. PROVIDE AUXILIARY DRAINS WHERE REQUIRED TO DRAIN ALL PORTIONS OF THE PIPING SYSTEM.
4. COORDINATION WITH ELEVATORS:
    A. PROVIDE SPRINKLERS IN LOCATIONS REQUIRED BY NFPA 13 AND THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE. THE HEADS SHALL BE STANDARD RESPONSE HEADS (NOT QUICK RESPONSE) AND SHALL HAVE AN INTERMEDIATE TEMPERATURE RATING OF 212-DEGREES F UNLESS A DIFFERENT RATING IS WARRANTED BY SHAFT ENVIRONMENTAL CONDITIONS.
    B. THESE HEADS SHALL BE SUPPLIED DIRECTLY FROM THE WET PIPE SPRINKLER SYSTEM FOR THE RESPECTIVE FLOOR. ONE SPRINKLER LINE SHALL SERVE BOTH THE MACHINE ROOM AND ADJACENT HOISTWAY OF THE RESPECTIVE FLOOR, AND SHALL NOT SERVE ANY OTHER NON-ELEVATOR SPACE. ROUTING PIPES INSIDE THE HOISTWAY SHALL COMPLY WITH ASME A17.1.
    C. A FLOW SWITCH, AND APPROPRIATE MEANS FOR TESTING AND DRAINING, SHALL BE PLACED IN AN ACCESSIBLE LOCATION OUTSIDE OF THE MACHINE ROOM AND/OR HOISTWAY WHERE SPRINKLERS ARE INSTALLED. ONE FLOW SWITCH SHALL SERVE BOTH THE MACHINE ROOM AND HOISTWAY.
    D. THE FLOW SWITCH SHALL NOT HAVE A MEANS TO CREATE A TIME DELAY; IT MUST ACTIVATE IMMEDIATELY.
    E. ACTIVATION OF A FLOW SWITCH SHALL:
        - IMMEDIATELY DISCONNECT MAIN LINE POWER.
        - ACTIVATE THE BUILDING'S FIRE ALARM SYSTEM, IF PRESENT.
5. ARMOVER PIPING SHALL BE 1" MINIMUM.
6. HYDROSTATICALLY TEST THE SYSTEM IN ACCORDANCE WITH NFPA 13.
7. OBTAIN ALL APPROVALS OF AUTHORITIES HAVING JURISDICTION.
8. PROVIDE CLOSE-OUT DOCUMENTS TO THE OWNER INCLUDING RECORD DRAWINGS, HYDRAULIC CALCULATIONS, PRODUCT DATA, AND INSPECTION, TESTING AND MAINTENANCE INFORMATION

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STATE OF LOUISIANA
DAVID BONAVENTURE
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PROFESSIONAL ENGINEER
10/08/2026

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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FP501

FIRE PROTECTION LEGENDS, NOTES AND DETAILS

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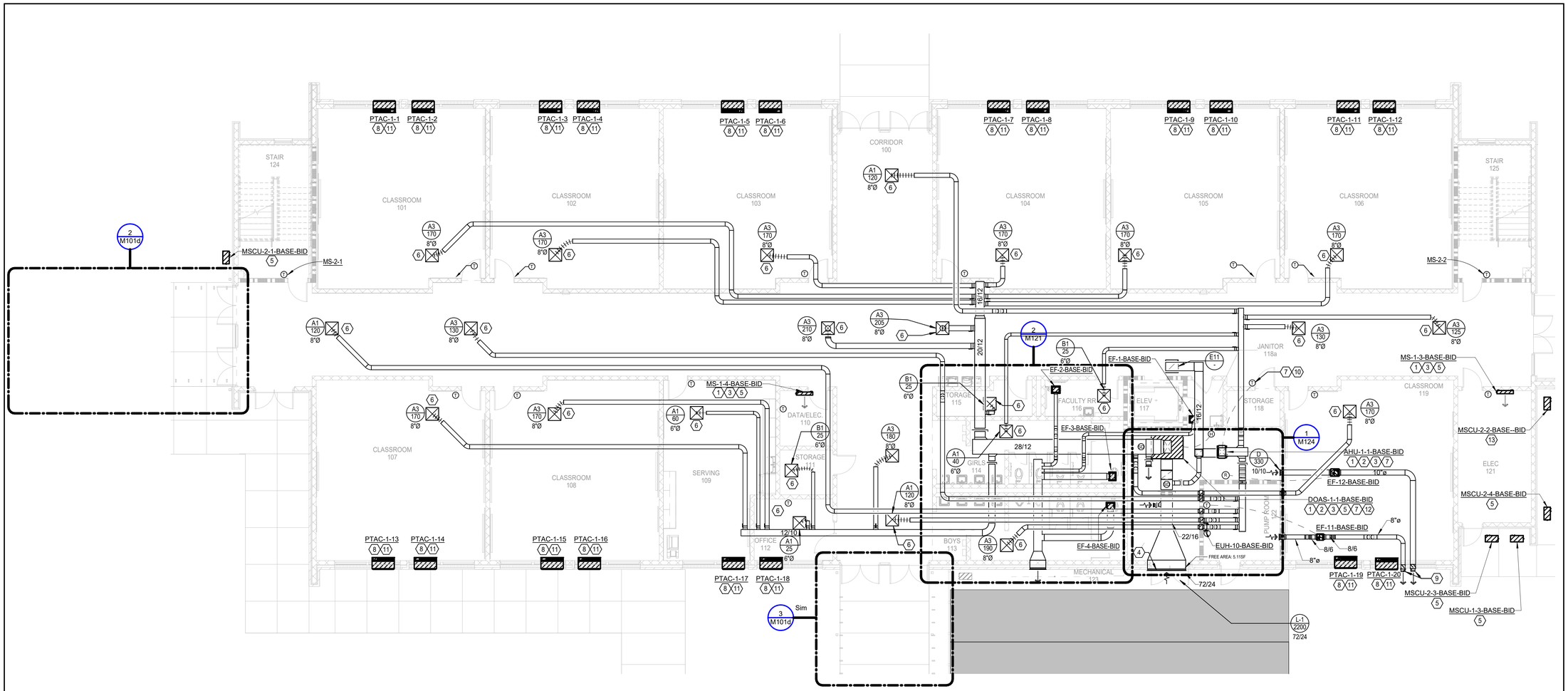

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1 1ST FLOOR MECHANICAL PLAN - AREA A - BASE BID

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

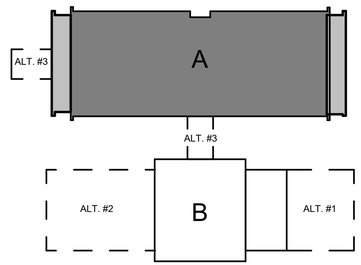
MECHANICAL GENERAL NOTES

1. ALL NEW WORK AS SHOWN ON CONTRACT DOCUMENTS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES ACCEPTED IN JURISDICTION TO THE SATISFACTION OF THE CODE AUTHORITY HAVING JURISDICTION.
2. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED AIR TERMINALS AND DEVICES WITH LIGHT FIXTURES AND ALL OTHER CEILING MOUNTED EQUIPMENT. REFER TO ARCHITECT'S LATEST REFLECTED CEILING PLAN AND COORDINATE WITH GENERAL CONTRACTOR AND ENGINEER (IN WRITING) PRIOR TO COORDINATING ANY REVISIONS.
4. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.
5. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.
6. ALL CONDENSATE DRAINS SHALL BE FULL SIZED UNLESS NOTED OTHERWISE.
7. PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN 'AUTO' MODE.
8. COORDINATE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH ARCHITECTURAL ROOF PLAN AND STRUCTURAL DRAWINGS PRIOR TO ROUGH-IN.
9. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
10. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
11. HVAC CONTRACTOR MUST COORDINATE DUCT WALL PENETRATIONS WITH THE MASONRY CONTRACTOR FOR BOTH EXTERIOR AND INTERIOR WALLS TO ENSURE PROPER LINTEL SUPPORT IS PROVIDED FOR THE DUCT PENETRATION

MECHANICAL KEYED NOTES

1. ROUTE FULL SIZED INSULATED CONDENSATE DRAIN WITH AIR GAP TO HUB DRAIN. TERMINATE WITH AIR GAP. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION OF HUB DRAIN.
2. PROVIDE AUXILIARY EMERGENCY DRAIN PAN WITH EMERGENCY OVERFLOW FLOAT SWITCH. PAN SHALL BE MINIMUM 4" DEEP AND SHALL EXTEND OUT FROM UNDER UNIT 6" ON ALL SIDES
3. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
4. ROUTE OUTSIDE AIR DUCT (SIZES SHOWN) TO INTAKE LOUVER. PROVIDE WITH MOTORIZED DAMPER AND MANUAL BALANCING DAMPER. MOTORIZED DAMPER SHALL OPEN WHEN ASSOCIATED AHU IS ENERGIZED. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. PROVIDE GREENHECK MODEL EHH OR APPROVED EQUAL. LOCATE INTAKE MIN 10'-0" FROM ALL BUILDING EXHAUST OUTLETS. (FREE AREA SHOWN). MOUNTING HEIGHT SHALL BE 9' - 6" A.F.F.
5. FIELD ROUTE REFRIGERANT LINES TO RESPECTIVE OUTDOOR UNIT. COORDINATE WITH ARCHITECT FOR EXACT ROUTING LOCATIONS PRIOR TO MOUNTING.
6. COORDINATE WITH ARCHITECT FOR GRILLE LOCATIONS. TYPICAL.
7. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT INTERLOCKED WITH AHU. FIELD ROUTE THERMOSTAT CONTROL WIRE UP TO AHU.
8. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT INTERLOCKED WITH PTACS. FIELD ROUTE THERMOSTAT CONTROL WIRE UP TO PTAC. LOCK OUT TEMPERATURE CONTROLS AT THE FACE OF THE UNIT.
9. ROUTE EXHAUST DUCT (SIZES SHOWN) TO LOW PROFILE WALL CAP. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. PROVIDE FAMCO MODEL WVEB OR APPROVED EQUAL. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING AIR INTAKES.
10. THERMOSTAT SHALL BE PROVIDED WITH LOCK BOX.
11. COORDINATE EXACT LOCATION AND FRAMED OPENING WITH ARCH PRIOR TO ROUGH IN.
12. PROVIDE OUTDOOR AIR HANDLING UNIT WITH TEMPERATURE AND HUMIDITY SENSORS.
13. FIELD ROUTE REFRIGERANT LINES TO RESPECTIVE INDOOR UNIT. INSTALL REFRIGERANT LINES UP THE EXTERIOR WALL AND PENETRATE WALL ABOVE ADJACENT ROOM CEILING. ROUTE REFRIGERANT LINES TO THE RESPECTIVE INDOOR UNIT CONCEALED ABOVE CEILINGS. PROVIDE PREFINISHED METAL LINESET COVER FOR EXTERIOR VERTICAL RUN AT EXTERIOR WALL.

KEY PLAN



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10/08/2026

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	SB
QUALITY CONTROL	JP/DB

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M101a

1ST FLOOR PLAN - AREA A

H/S

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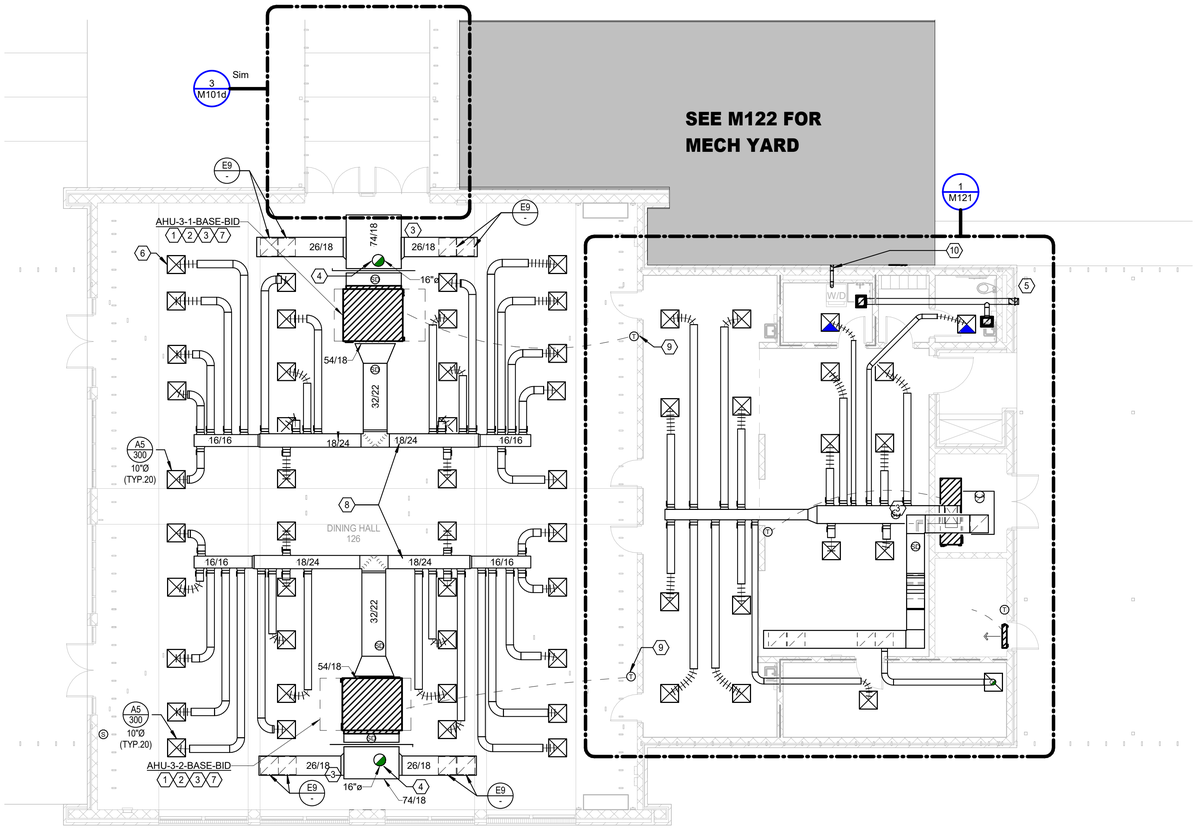

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1 1ST FLOOR MECHANICAL PLAN - AREA B - BASE BID

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

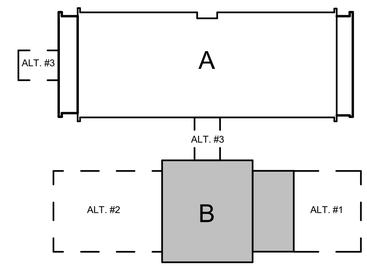
MECHANICAL GENERAL NOTES

1. ALL NEW WORK AS SHOWN ON CONTRACT DOCUMENTS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES ACCEPTED IN JURISDICTION TO THE SATISFACTION OF THE CODE AUTHORITY HAVING JURISDICTION.
2. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED AIR TERMINALS AND DEVICES WITH LIGHT FIXTURES AND ALL OTHER CEILING MOUNTED EQUIPMENT. REFER TO ARCHITECT'S LATEST REFLECTED CEILING PLAN AND COORDINATE WITH GENERAL CONTRACTOR AND ENGINEER (IN WRITING) PRIOR TO COORDINATING ANY REVISIONS.
4. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.
5. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.
6. ALL CONDENSATE DRAINS SHALL BE FULL SIZED UNLESS NOTED OTHERWISE.
7. PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN 'AUTO' MODE.
8. COORDINATE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH ARCHITECTURAL ROOF PLAN AND STRUCTURAL DRAWINGS PRIOR TO ROUGH-IN.
9. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
10. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.

MECHANICAL KEYED NOTES

1. ROUTE FULL SIZED INSULATED CONDENSATE DRAIN WITH AIR GAP TO HUB DRAIN. TERMINATE WITH AIR GAP. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION OF HUB DRAIN.
2. PROVIDE AUXILIARY EMERGENCY DRAIN PAN WITH EMERGENCY OVERFLOW FLOAT SWITCH. PAN SHALL BE MINIMUM 4" DEEP AND SHALL EXTEND OUT FROM UNDER UNIT 6" ON ALL SIDES
3. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
4. ROUTE OUTSIDE AIR DUCT (SIZES SHOWN) TO LOW PROFILE ROOF CAP. PROVIDE WITH MOTORIZED DAMPER AND MANUAL BALANCING DAMPER. MOTORIZED DAMPER SHALL OPEN WHEN ASSOCIATED AHU IS IN HEATING OR COOLING MODE. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. PROVIDE GREENHECK MODEL GRSI-10 OR APPROVED EQUAL. LOCATE INTAKE MIN 10'-0" FROM ALL BUILDING EXHAUST OUTLETS.
5. ROUTE EXHAUST DUCT (SIZES SHOWN) UP TO LOW PROFILE WALL CAP. PROVIDE GREENHECK MODEL WC-8 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS.
6. COORDINATE WITH ARCHITECT FOR GRILLE LOCATIONS. TYPICAL.
7. PROVIDE SMOKE DETECTORS IN THE RETURN AND SUPPLY DUCT. COORDINATE WITH ELECTRICAL CONTRACTOR TO INSTALL.
8. FIELD COORDINATE WITH STRUCTURAL. OFFSET AND TRANSITION DUCTWORK AS REQUIRED.
9. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT INTERLOCKED WITH AHU. FIELD ROUTE THERMOSTAT CONTROL WIRE UP TO AHU. PROVIDE THERMOSTAT WITH TAMPER RESISTANT LOCKBOX.
10. ROUTE 4"Ø DRYER EXHAUST VENT TO DRYER VENT WALL CAP WITH BACK DRAFT DAMPER. PROVIDE INOVATE MODEL DWV4 DRYER WALL VENT. CONTRACTOR TO VERIFY LENGTH OF DUCT ROUTE IS LESS THAN OR EQUAL TO 35 FEET WITH 5 FOOT ADDED TO TOTAL LENGTH FOR EVERY 4" 90° BEND. PROVIDE PERMANENT NAMEPLATE WITH TOTAL DUCT RUN WITHIN 6'-0" FROM EXHAUST CONNECTION

KEY PLAN



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DAVID BONAVENTURE
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PROFESSIONAL ENGINEER
10/08/2026

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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Project No: 2550-01207

M101b

1ST FLOOR PLAN - AREA B

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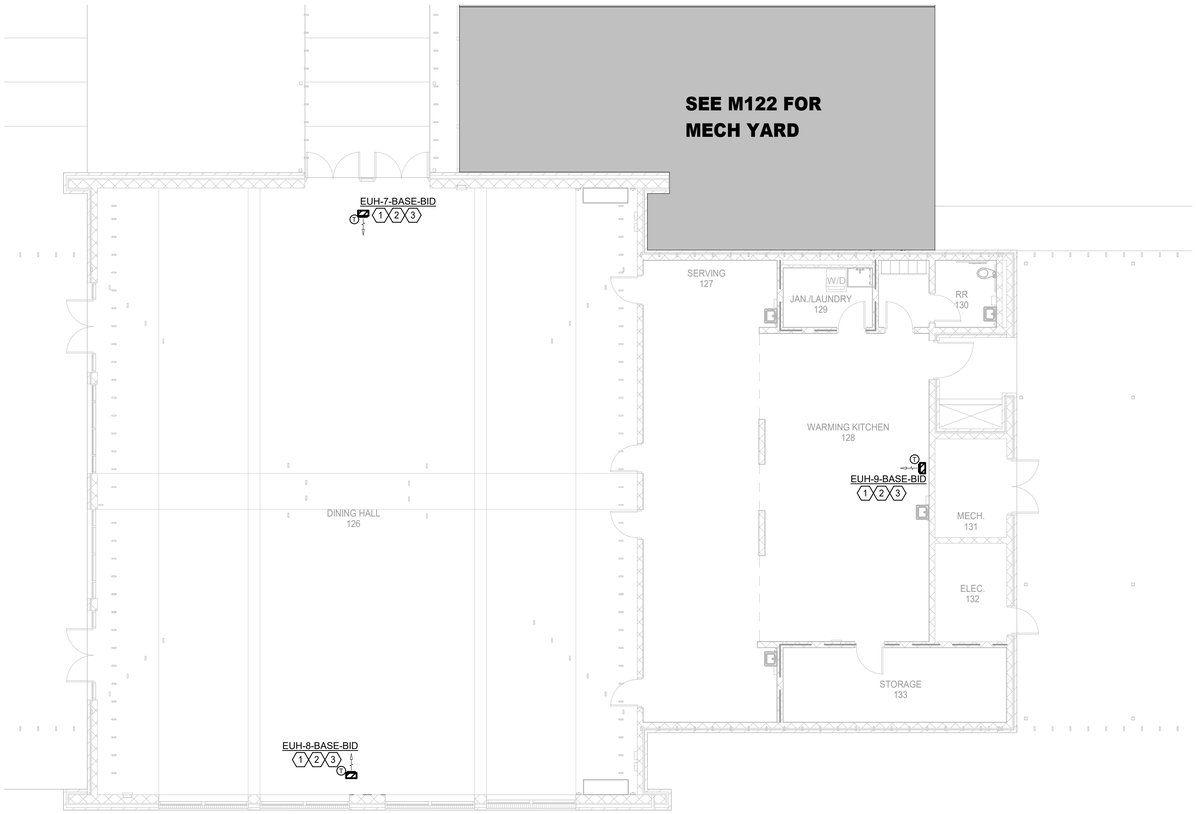

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1 WARMING KITCHEN ATTIC MECHANICAL PLAN - AREA B - BASE BID

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

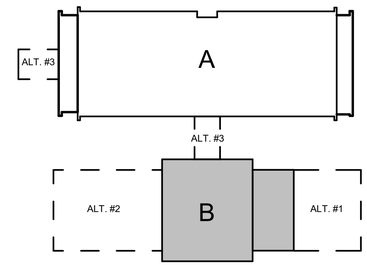
MECHANICAL GENERAL NOTES

1. ALL NEW WORK AS SHOWN ON CONTRACT DOCUMENTS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES ACCEPTED IN JURISDICTION TO THE SATISFACTION OF THE CODE AUTHORITY HAVING JURISDICTION.
2. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED AIR TERMINALS AND DEVICES WITH LIGHT FIXTURES AND ALL OTHER CEILING MOUNTED EQUIPMENT. REFER TO ARCHITECT'S LATEST REFLECTED CEILING PLAN AND COORDINATE WITH GENERAL CONTRACTOR AND ENGINEER (IN WRITING) PRIOR TO COORDINATING ANY REVISIONS.
3. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.
4. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.
5. PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN 'AUTO' MODE.
6. COORDINATE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH ARCHITECTURAL ROOF PLAN AND STRUCTURAL DRAWINGS PRIOR TO ROUGH-IN.
7. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
8. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.

MECHANICAL KEYED NOTES

1. PROVIDE 3 KW ELECTRIC UNIT HEATER REZNOR MODEL AK15 WITH MOUNTING HARDWARE AT 208/1/60. PROVIDE THERMOSTAT INTERLOCKED WITH UNIT HEATER SET TO 40°F.
2. ALL UNIT HEATERS, SHALL BE INTERLOCKED WITH THERMOSTAT LOCKED OUT AT 40°F.
3. UNIT HEATER SHALL BE SUSPENDED FROM ATTIC STRUCTURE WITHIN ATTIC SPACE.

KEY PLAN



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QUALITY CONTROL	Checker

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WARMING KITCHEN ATTIC MECHANICAL PLAN - AREA B

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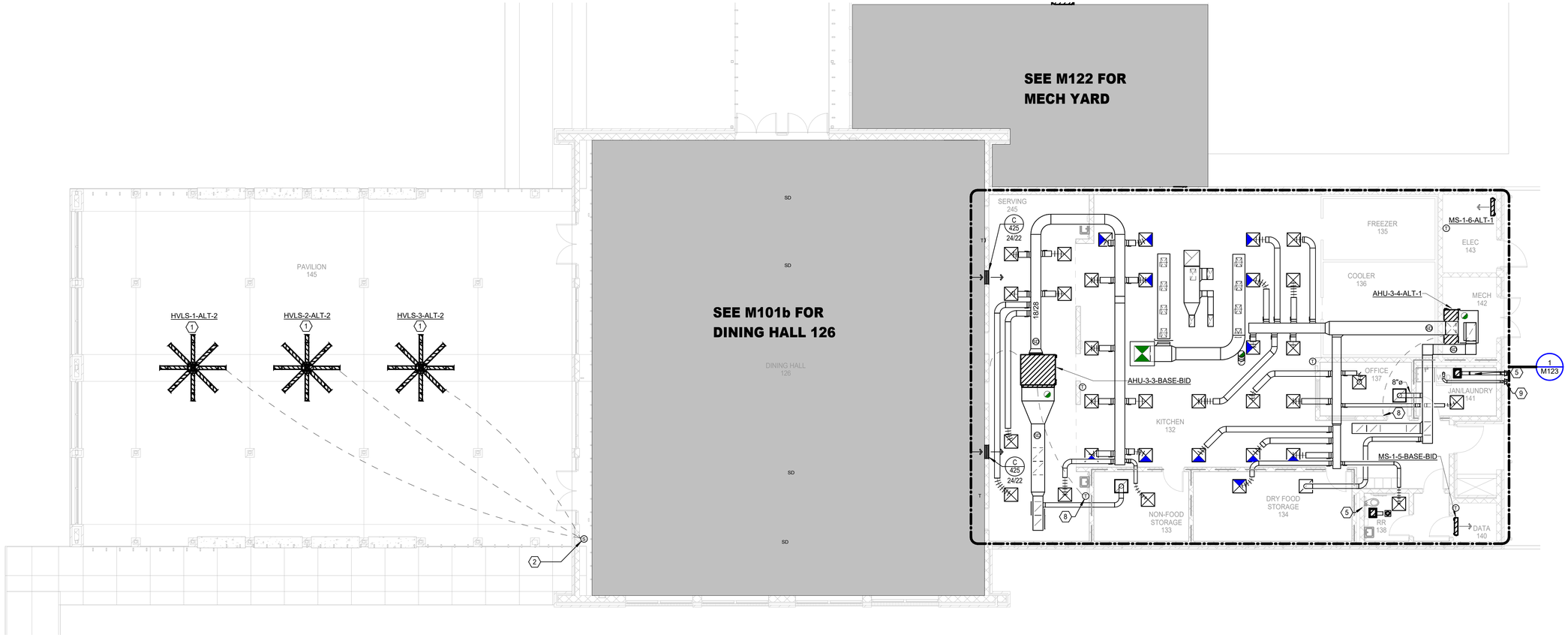
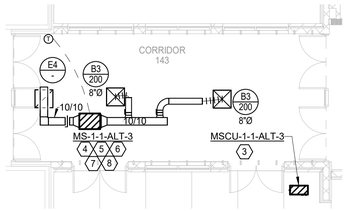


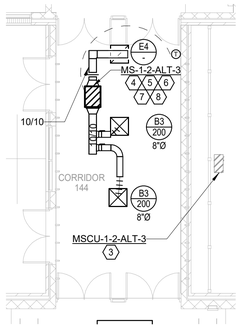
1 1ST FLOOR MECHANICAL PLAN - AREA B - ALTERNATE #1 AND #2

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



2 1ST FLOOR MECHANICAL PLAN - ALTERNATE #3 WEST

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



3 1ST FLOOR MECHANICAL PLAN - ALTERNATE #3 SOUTH

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

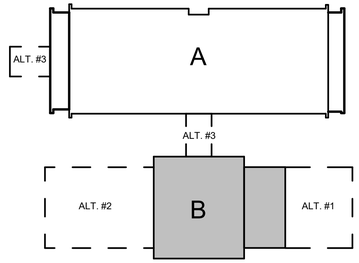
MECHANICAL GENERAL NOTES

1. ALL NEW WORK AS SHOWN ON CONTRACT DOCUMENTS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES ACCEPTED IN JURISDICTION TO THE SATISFACTION OF THE CODE AUTHORITY HAVING JURISDICTION.
2. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR. INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED AIR TERMINALS AND DEVICES WITH LIGHT FIXTURES AND ALL OTHER CEILING MOUNTED EQUIPMENT. REFER TO ARCHITECT'S LATEST REFLECTED CEILING PLAN AND COORDINATE WITH GENERAL CONTRACTOR AND ENGINEER (IN WRITING) PRIOR TO COORDINATING ANY REVISIONS.
4. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.
5. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.
6. ALL CONDENSATE DRAINS SHALL BE FULL SIZED UNLESS NOTED OTHERWISE.
7. PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN 'AUTO' MODE.
8. COORDINATE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH ARCHITECTURAL ROOF PLAN AND STRUCTURAL DRAWINGS PRIOR TO ROUGH-IN.
9. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
10. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.

MECHANICAL KEYED NOTES

1. SPRINKLER CLEARANCES MUST BE ACCOMMODATED HERE AROUND THE HVLS FANS.
2. HVLS FANS SHALL BE WIRED TO SWITCH. SWITCH SHALL BE PROVIDED WITH LOCKBOX.
3. FIELD ROUTE REFRIGERANT LINES TO RESPECTIVE INDOOR UNIT. INSTALL REFRIGERANT LINES UP THE EXTERIOR WALL AND PENETRATE WALL ABOVE ADJACENT ROOM CEILING. ROUTE REFRIGERANT LINES TO THE RESPECTIVE INDOOR UNIT CONCEALED ABOVE CEILINGS. PROVIDE PREFINISHED METAL LINESET COVER FOR EXTERIOR VERTICAL RUN AT EXTERIOR WALL.
4. ROUTE FULL SIZED INSULATED CONDENSATE DRAIN WITH AIR GAP TO HUB DRAIN. TERMINATE WITH AIR GAP. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION OF HUB DRAIN.
5. PROVIDE AUXILIARY EMERGENCY DRAIN PAN WITH EMERGENCY OVERFLOW FLOAT SWITCH. PAN SHALL BE MINIMUM 4" DEEP AND SHALL EXTEND OUT FROM UNDER UNIT 6" ON ALL SIDES
6. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
7. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT INTERLOCKED WITH AHU. FIELD ROUTE THERMOSTAT CONTROL WIRE UP TO AHU.
8. THERMOSTAT SHALL BE PROVIDED WITH LOCK BOX.

KEY PLAN



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STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
10/08/2026

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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Baton Rouge, LA 70809
Registration: 0008168
Project No: 2550-01207

M101d

1ST FLOOR PLAN - AREA B
ALTERNATE #1 AND #2

H/S

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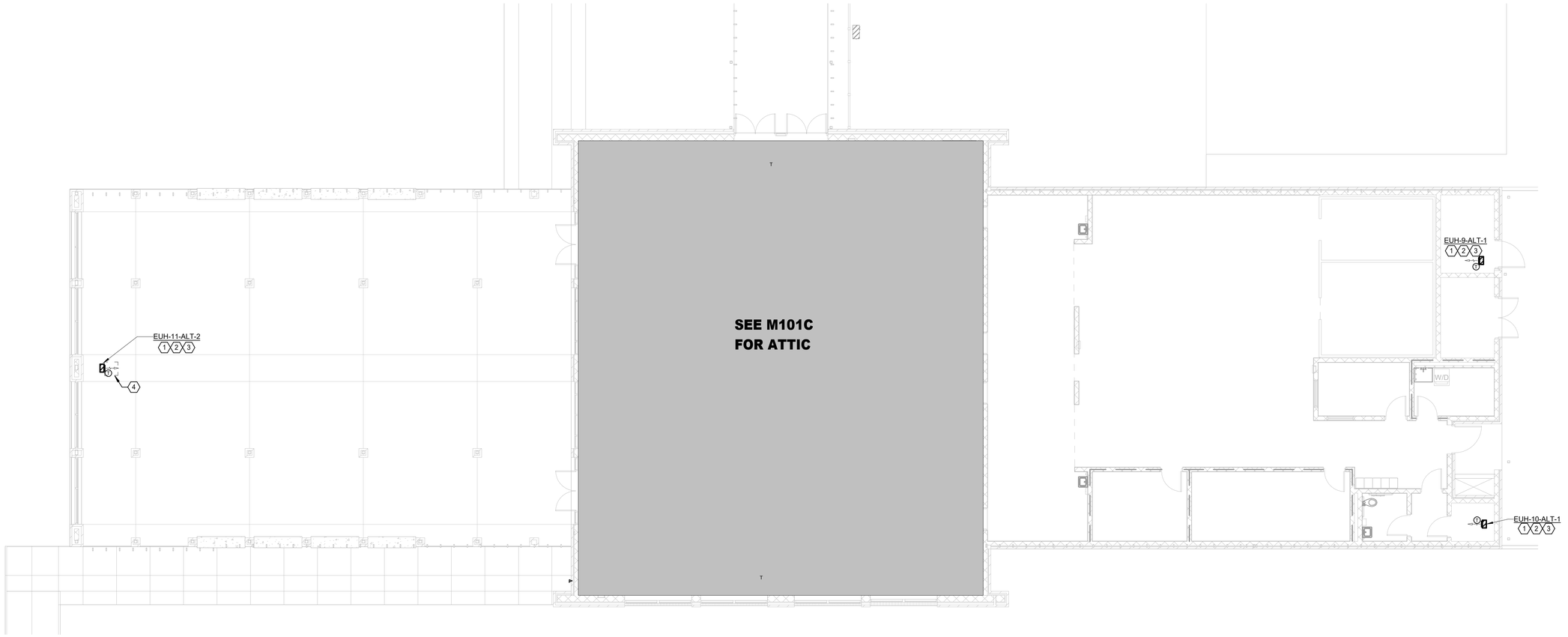


N

1 KITCHEN ATTIC MECHANICAL PLAN - AREA B - ALTERNATE #1 AND #2

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

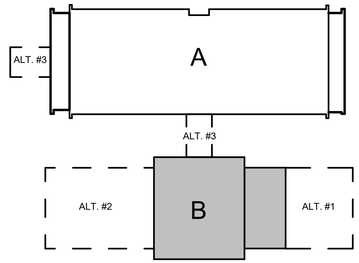
MECHANICAL GENERAL NOTES

1. ALL NEW WORK AS SHOWN ON CONTRACT DOCUMENTS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES ACCEPTED IN JURISDICTION TO THE SATISFACTION OF THE CODE AUTHORITY HAVING JURISDICTION.
2. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED AIR TERMINALS AND DEVICES WITH LIGHT FIXTURES AND ALL OTHER CEILING MOUNTED EQUIPMENT. REFER TO ARCHITECT'S LATEST REFLECTED CEILING PLAN AND COORDINATE WITH GENERAL CONTRACTOR AND ENGINEER (IN WRITING) PRIOR TO COORDINATING ANY REVISIONS.
3. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.
4. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.
5. PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN 'AUTO' MODE.
6. COORDINATE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH ARCHITECTURAL ROOF PLAN AND STRUCTURAL DRAWINGS PRIOR TO ROUGH-IN.
7. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
8. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.

MECHANICAL KEYED NOTES

1. PROVIDE 3 KW ELECTRIC UNIT HEATER REZNOR MODEL AK15 WITH MOUNTING HARDWARE AT 208/1/60. PROVIDE THERMOSTAT INTERLOCKED WITH UNIT HEATER SET TO 40°F.
2. ALL UNITS HEATERS, SHALL BE INTERLOCKED WITH THERMOSTAT LOCKED OUT AT 40°F.
3. UNIT HEATER SHALL BE SUSPENDED FROM ATTIC STRUCTURE WITHIN ATTIC SPACE.
4. PROVIDE 2' X 2' ACCESS PANEL. COORDINATE WITH STRUCTURAL/ARCH FOR FINAL PLACEMENT AND ACCESS.

KEY PLAN



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NO.	DESCRIPTION	DATE

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PHASE	BIDDING
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PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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M101e

KITCHEN ATTIC PLAN - AREA B ALTERNATE #1 AND #2

H/S

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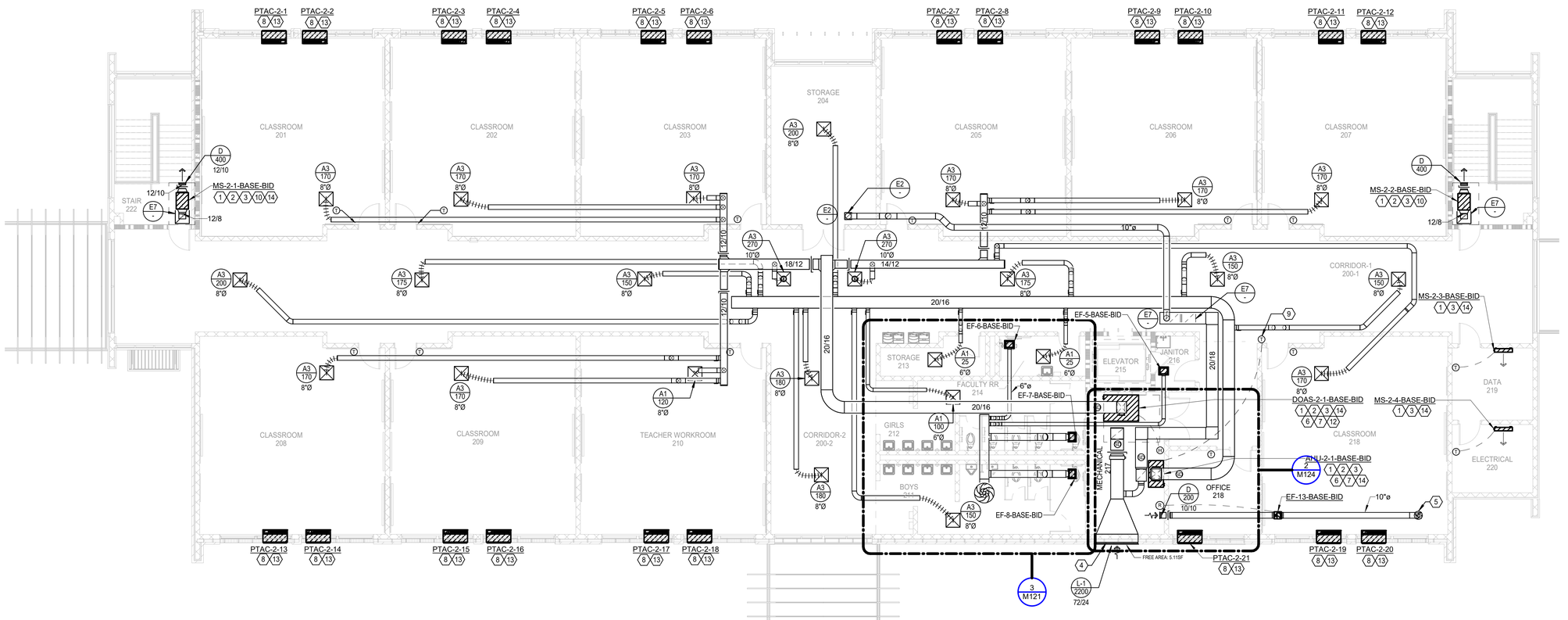


1 2ND FLOOR MECHANICAL PLAN - BASE BID

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

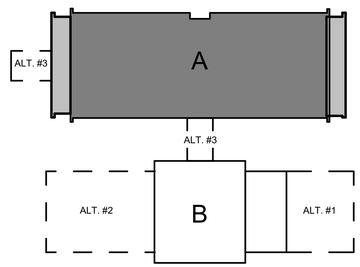
MECHANICAL GENERAL NOTES

1. ALL NEW WORK AS SHOWN ON CONTRACT DOCUMENTS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES ACCEPTED IN JURISDICTION TO THE SATISFACTION OF THE CODE AUTHORITY HAVING JURISDICTION.
2. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED AIR TERMINALS AND DEVICES WITH LIGHT FIXTURES AND ALL OTHER CEILING MOUNTED EQUIPMENT. REFER TO ARCHITECT'S LATEST REFLECTED CEILING PLAN AND COORDINATE WITH GENERAL CONTRACTOR AND ENGINEER (IN WRITING) PRIOR TO COORDINATING ANY REVISIONS.
4. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.
5. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.
6. ALL CONDENSATE DRAINS SHALL BE FULL SIZED UNLESS NOTED OTHERWISE.
7. PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN 'AUTO' MODE.
8. COORDINATE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH ARCHITECTURAL ROOF PLAN AND STRUCTURAL DRAWINGS PRIOR TO ROUGH-IN.
9. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
10. FOR AREAS WHICH ARE RETURN AIR PLENUMS, ALL MATERIALS SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723. PRIOR TO BIDDING, CONTRACTOR SHALL INFORM ALL TRADES THAT HAVE WORK IN THE RETURN AIR PLENUM AREA.
11. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
12. HVAC CONTRACTOR MUST COORDINATE DUCT WALL PENETRATIONS WITH THE MASONRY CONTRACTOR FOR BOTH EXTERIOR AND INTERIOR WALLS TO ENSURE PROPER LINTEL SUPPORT IS PROVIDED FOR THE DUCT PENETRATION. ANY CONFLICTS DUE TO LACK OF COORDINATION WILL REQUIRE REWORK BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
13. HVAC CONTRACTOR MUST COORDINATE WITH THE WOOD ROOF TRUSS SUPPLIER TO ISSUE THEIR DUCTWORK SHOP DRAWINGS AFTER THE ROOF TRUSS SUPPLIER HAS ISSUED THEIR SHOP DRAWINGS TO ENSURE PROPER DUCT SIZE AND LAYOUT CAN BE ACCOMODATED. ANY REWORK OF DUCTWORK DUE TO LACK OF COORDINATION AND IMPROPER SUBMITTAL TIMING WILL REQUIRE REWORK BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.

MECHANICAL KEYED NOTES

1. ROUTE FULL SIZED INSULATED CONDENSATE DRAIN WITH AIR GAP TO FLOOR DRAIN. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION OF HUB DRAIN.
2. PROVIDE AUXILIARY EMERGENCY DRAIN PAN WITH EMERGENCY OVERFLOW FLOAT SWITCH. PAN SHALL BE MINIMUM 4" DEEP AND SHALL EXTEND OUT FROM UNDER UNIT 6" ON ALL SIDES
3. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
4. ROUTE OUTSIDE AIR DUCT (SIZES SHOWN) TO INTAKE LOUVER. PROVIDE WITH MOTORIZED DAMPER AND MANUAL BALANCING DAMPER. MOTORIZED DAMPER SHALL OPEN WHEN ASSOCIATED AHU IS ENERGIZED. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. PROVIDE GREENHECK MODEL EHH OR APPROVED EQUAL. LOCATE INTAKE MIN 10'-0" FROM ALL BUILDING EXHAUST OUTLETS. (FREE AREA SHOWN). MOUNTING HEIGHT SHALL BE 7' - 4" A.F.F.
5. ROUTE EXHAUST DUCT (SIZES SHOWN) UP TO LOW PROFILE ROOF CAP. PROVIDE GREENHECK GRSR OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS.
6. PROVIDE SMOKE DETECTORS IN THE RETURN AND SUPPLY DUCT. COORDINATE WITH ELECTRICAL CONTRACTOR TO INSTALL.
7. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT INTERLOCKED WITH AHU. FIELD ROUTE THERMOSTAT CONTROL WIRE UP TO AHU.
8. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT INTERLOCKED WITH PTAC. FIELD ROUTE THERMOSTAT CONTROL WIRE UP TO PTAC. LOCK OUT TEMPERATURE CONTROLS AT UNIT.
9. THERMOSTAT SHALL BE PROVIDED WITH LOCK BOX.
10. DUCTED MINISPLIT SHALL BE MOUNTED IN FURRING IN STAIRS.
11. COORDINATE EXACT LOCATION AND FRAMED OPENING WITH ARCH PRIOR TO ROUGH IN.
12. PROVIDE OUTDOOR AIR UNIT WITH TEMPERATURE AND HUMIDITY SENSORS.
13. COORDINATE EXACT LOCATION AND FRAMED OPENING WITH ARCH PRIOR TO ROUGH IN.
14. FIELD ROUTE REFRIGERANT LINES TO RESPECTIVE OUTDOOR UNIT. COORDINATE WITH ARCHITECT FOR EXACT ROUTING LOCATIONS PRIOR TO MOUNTING.

KEY PLAN



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10/08/2026

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DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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M102

2ND FLOOR PLAN - AREA A

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Project No: 2550-01207

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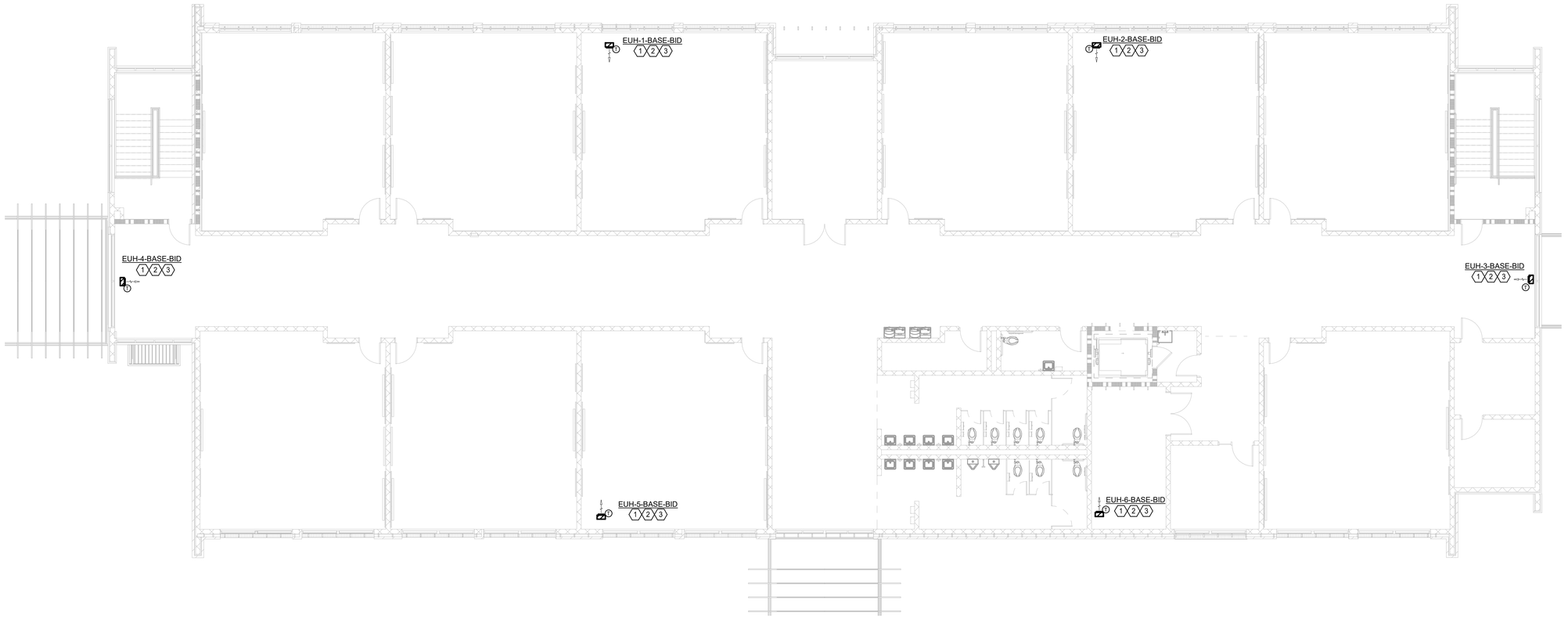

N

1 2ND FLOOR ATTIC MECHANICAL PLAN - BASE BID

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

MECHANICAL GENERAL NOTES

1. ALL NEW WORK AS SHOWN ON CONTRACT DOCUMENTS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES ACCEPTED IN JURISDICTION TO THE SATISFACTION OF THE CODE AUTHORITY HAVING JURISDICTION.
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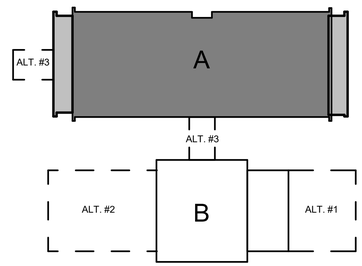
3. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.
4. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.
5. PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN 'AUTO' MODE.
6. COORDINATE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH ARCHITECTURAL ROOF PLAN AND STRUCTURAL DRAWINGS PRIOR TO ROUGH-IN.
7. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
8. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.

MECHANICAL KEYED NOTES

1. PROVIDE 3 KW ELECTRIC UNIT HEATER REZNOR MODEL AK15 WITH MOUNTING HARDWARE AT 208/1/60. PROVIDE THERMOSTAT INTERLOCKED WITH UNIT HEATER SET TO 40°F.
2. ALL UNITS HEATERS, SHALL BE INTERLOCKED WITH THERMOSTAT LOCKED OUT AT 40°F.
3. UNIT HEATER SHALL BE SUSPENDED FROM ATTIC STRUCTURE WITHIN ATTIC SPACE.

KEY PLAN



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QUALITY CONTROL	Checker

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M103

2ND FLOOR ATTIC PLAN - AREA A

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Baton Rouge, LA 70809
Registration: 0008168
Project No: 2550-01207

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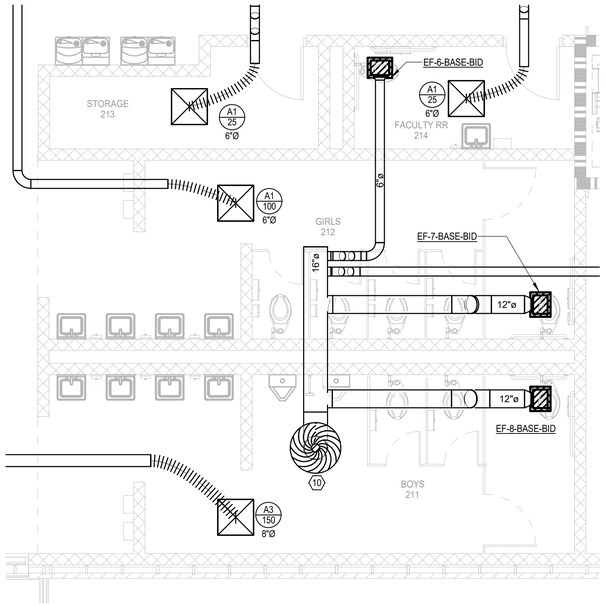

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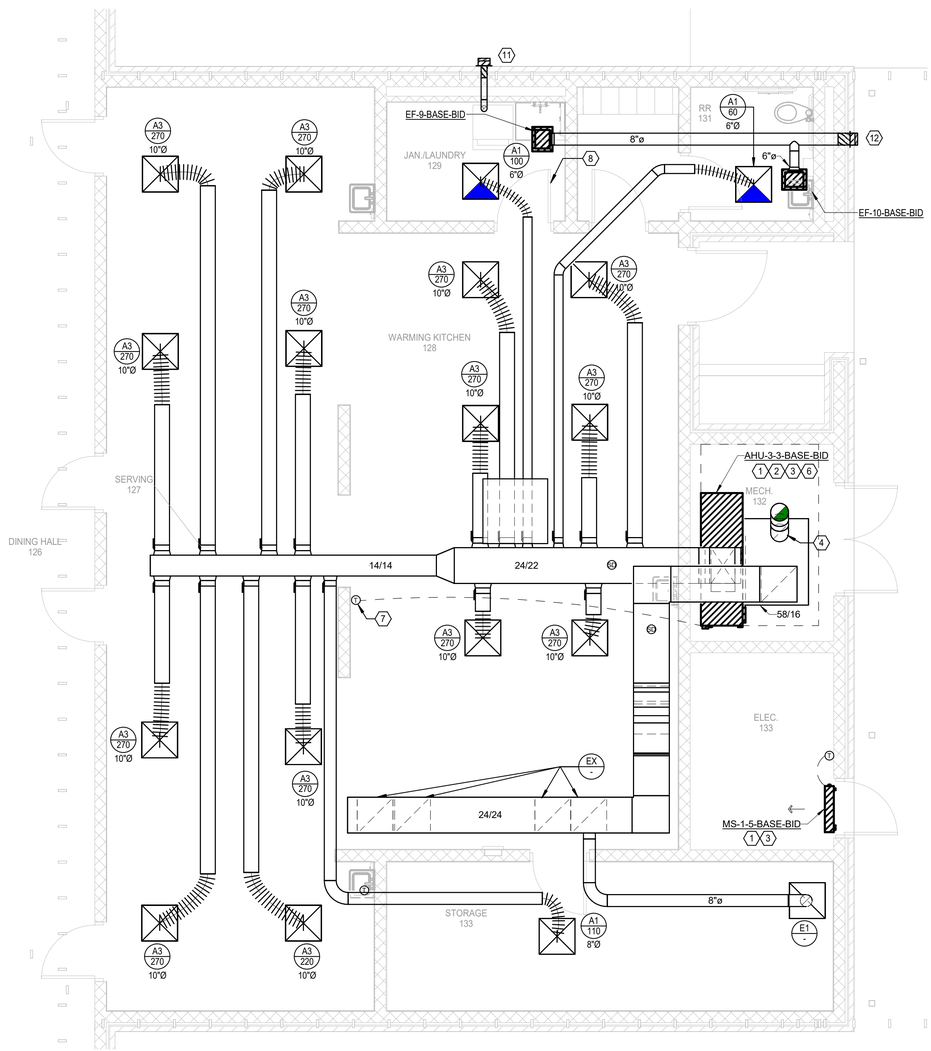
3 ENLARGED MECHANICAL PLAN - 2ND FLOOR RESTROOMS - BASE BID

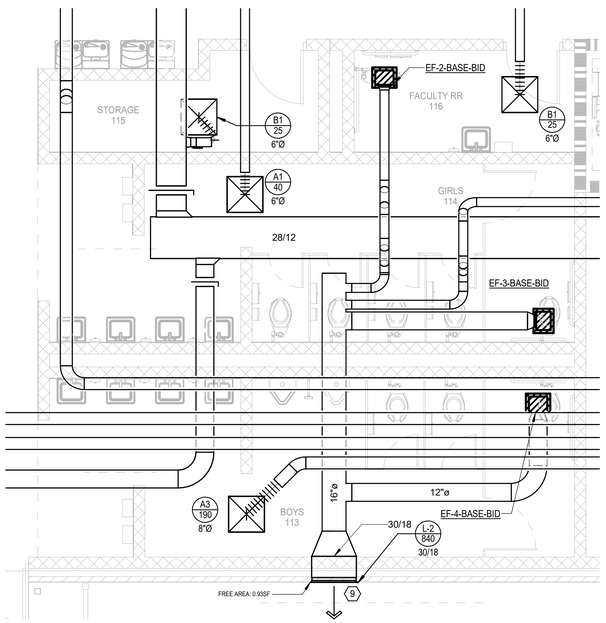
Scale: 1/4" = 1'-0"



N

1 ENLARGED MECHANICAL PLAN - KITCHEN - BASE BID

Scale: 1/4" = 1'-0"



N

2 ENLARGED MECHANICAL PLAN - 1ST FLOOR RESTROOMS - BASE BID

Scale: 1/4" = 1'-0"

MECHANICAL GENERAL NOTES

1. ALL NEW WORK AS SHOWN ON CONTRACT DOCUMENTS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES ACCEPTED IN JURISDICTION TO THE SATISFACTION OF THE CODE AUTHORITY HAVING JURISDICTION.
2. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED AIR TERMINALS AND DEVICES WITH LIGHT FIXTURES AND ALL OTHER CEILING MOUNTED EQUIPMENT. REFER TO ARCHITECT'S LATEST REFLECTED CEILING PLAN AND COORDINATE WITH GENERAL CONTRACTOR AND ENGINEER (IN WRITING) PRIOR TO COORDINATING ANY REVISIONS.
4. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.
5. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.
6. ALL CONDENSATE DRAINS SHALL BE FULL SIZED UNLESS NOTED OTHERWISE.
7. PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN 'AUTO' MODE.
8. COORDINATE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH ARCHITECTURAL ROOF PLAN AND STRUCTURAL DRAWINGS PRIOR TO ROUGH-IN.
9. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
10. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
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12. HVAC CONTRACTOR MUST COORDINATE WITH THE WOOD ROOF TRUSS SUPPLIER TO ISSUE THEIR DUCTWORK SHOP DRAWINGS AFTER THE ROOF TRUSS SUPPLIER HAS ISSUED THEIR SHOP DRAWINGS TO ENSURE PROPER DUCT SIZE AND LAYOUT CAN BE ACCOMODATED. ANY REWORK OF DUCTWORK DUE TO LACK OF COORDINATION AND IMPROPER SUBMITTAL TIMING WILL REQUIRE REWORK BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.

MECHANICAL KEYED NOTES

1. ROUTE FULL SIZED INSULATED CONDENSATE DRAIN WITH AIR GAP TO FLOOR DRAIN. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION OF HUB DRAIN.
2. PROVIDE AUXILIARY EMERGENCY DRAIN PAN WITH EMERGENCY OVERFLOW FLOAT SWITCH. PAN SHALL BE MINIMUM 4" DEEP AND SHALL EXTEND OUT FROM UNDER UNIT 6" ON ALL SIDES
3. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
4. ROUTE OUTSIDE AIR DUCT (SIZES SHOWN) TO LOW PROFILE ROOF CAP. PROVIDE WITH MOTORIZED DAMPER AND MANUAL BALANCING DAMPER. MOTORIZED DAMPER SHALL OPEN WHEN ASSOCIATED AHU IS IN HEATING OR COOLING MODE. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. PROVIDE GREENHECK MODEL GRSI OR APPROVED EQUAL. LOCATE INTAKE MIN 10'-0" FROM ALL BUILDING EXHAUST OUTLETS.
5. ROUTE EXHAUST DUCT (SIZES SHOWN) UP TO EXHAUST LOUVER. PROVIDE GREENHECK EHH OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS.
6. PROVIDE SMOKE DETECTORS IN THE RETURN AND SUPPLY DUCT. COORDINATE WITH ELECTRICAL CONTRACTOR TO INSTALL.
7. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT INTERLOCKED WITH AHU. FIELD ROUTE THERMOSTAT CONTROL WIRE UP TO AHU.
8. UNDERCUT DOOR 1" FOR RETURN AIR PATH.
9. ROUTE EXHAUST DUCT (SIZES SHOWN) UP TO EXHAUST LOUVER. PROVIDE GREENHECK EHH OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS.
10. ROUTE EXHAUST DUCT (SIZES SHOWN) UP TO LOW PROFILE ROOF CAP. PROVIDE GREENHECK GRSR OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS.
11. ROUTE 4"Ø DRYER EXHAUST VENT TO DRYER VENT WALL CAP WITH BACK DRAFT DAMPER. PROVIDE INOVATE MODEL DWV4 DRYER WALL VENT. CONTRACTOR TO VERIFY LENGTH OF DUCT ROUTE IS LESS THAN OR EQUAL TO 35 FEET WITH 5 FOOT ADDED TO TOTAL LENGTH FOR EVERY 4" 90° BEND. PROVIDE PERMANENT NAMEPLATE WITH TOTAL DUCT RUN WITHIN 6'-0" FROM EXHAUST CONNECTION
12. ROUTE EXHAUST DUCT (SIZES SHOWN) UP TO LOW PROFILE WALL CAP. PROVIDE GREENHECK MODEL WC-8 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS.

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10/08/2026

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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BID DOCUMENTS

M121

ENLARGED PLANS

H/S

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salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0008168
Project No: 2550-01207

10/9/2026 10:49:12 AM

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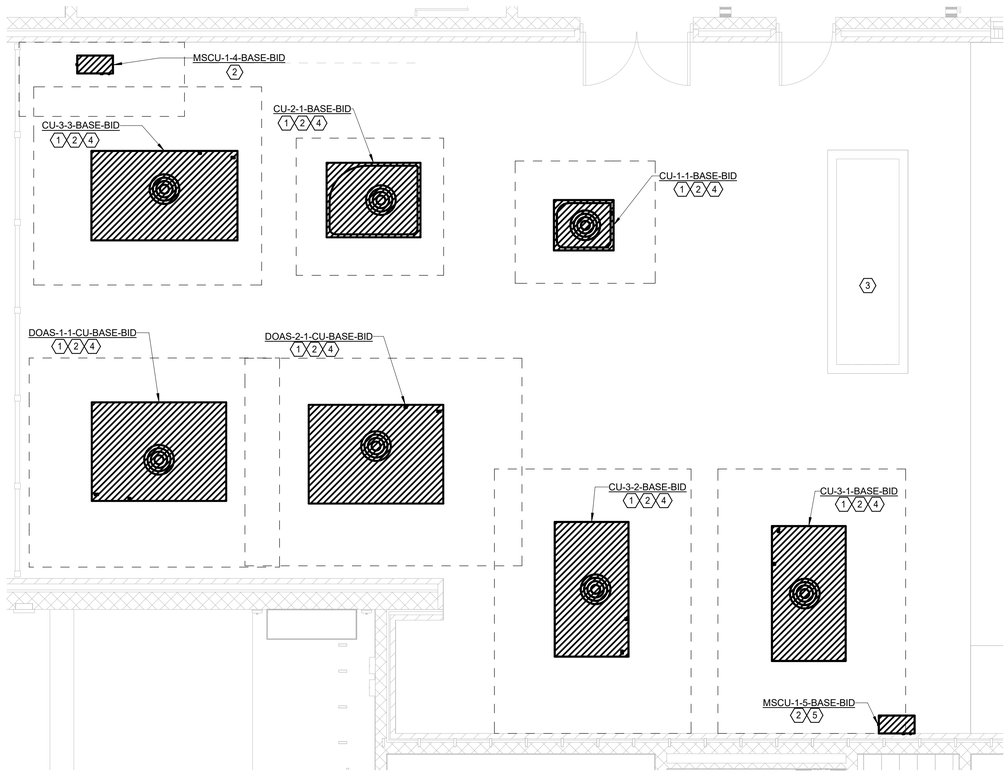
1" ½" 0" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

MECHANICAL GENERAL NOTES

1. ALL NEW WORK AS SHOWN ON CONTRACT DOCUMENTS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES ACCEPTED IN JURISDICTION TO THE SATISFACTION OF THE CODE AUTHORITY HAVING JURISDICTION.
2. ALL CONDENSATE DRAINS SHALL BE FULL SIZED UNLESS NOTED OTHERWISE.
3. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
4. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.

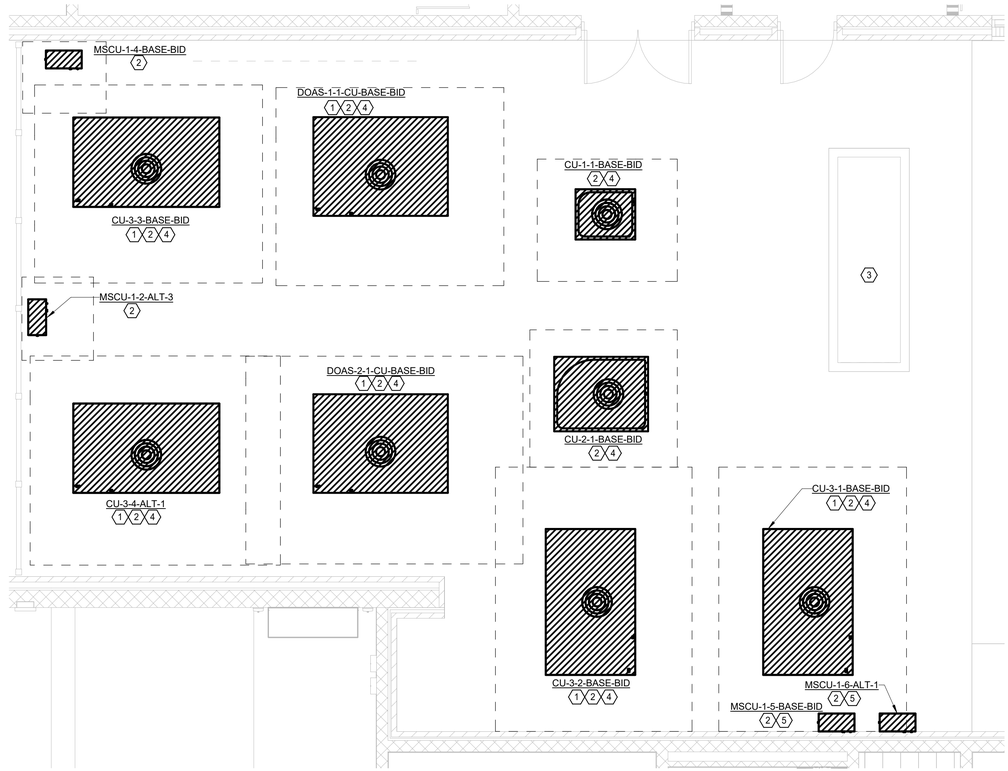
MECHANICAL KEYED NOTES

1. CONDENSING UNIT. MINIMUM 36" CLEAR AROUND UNITS AND BETWEEN UNITS AND MINIMUM 12" FROM WALL. MAINTAIN CLEARANCE FROM ALL MECHANICAL YARD EQUIPMENT PROVIDED BY OTHERS.
2. FIELD ROUTE REFRIGERANT LINES TO RESPECTIVE INDOOR UNIT. INSTALL REFRIGERANT LINES UP THE EXTERIOR WALL AND PENETRATE WALL ABOVE ADJACENT ROOM CEILING. ROUTE REFRIGERANT LINES TO THE RESPECTIVE INDOOR UNIT CONCEALED ABOVE CEILINGS. PROVIDE PREFINISHED METAL LINESET COVER FOR EXTERIOR VERTICAL RUN AT EXTERIOR WALL.
3. ALL OTHER EQUIPMENT IN MECHANICAL YARD THAT IS PROVIDED BY OTHERS, SHALL BE COORDINATED SO THAT ALL CLEARANCES FOR INSTALLATION AND SERVICE ARE MAINTAINED.
4. REFER TO CIVIL DRAWINGS FOR HOUSEKEEPING PAD.
5. CONDENSING UNIT SHALL BE MOUNTED ON EXTERIOR WALL USING MANUFACTURER PROVIDED MOUNTING HARDWARE. ROUTE REFRIGERANT LINES UP INSIDE EXTERIOR WALL THEN TO RESPECTIVE AIR HANDLING UNIT.



1 Level 1 - MECH YARD - BASE BID

Scale: 1/4" = 1'-0"



2 Level 1 - MECH YARD ALT 1

Scale: 1/4" = 1'-0"

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STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
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M122

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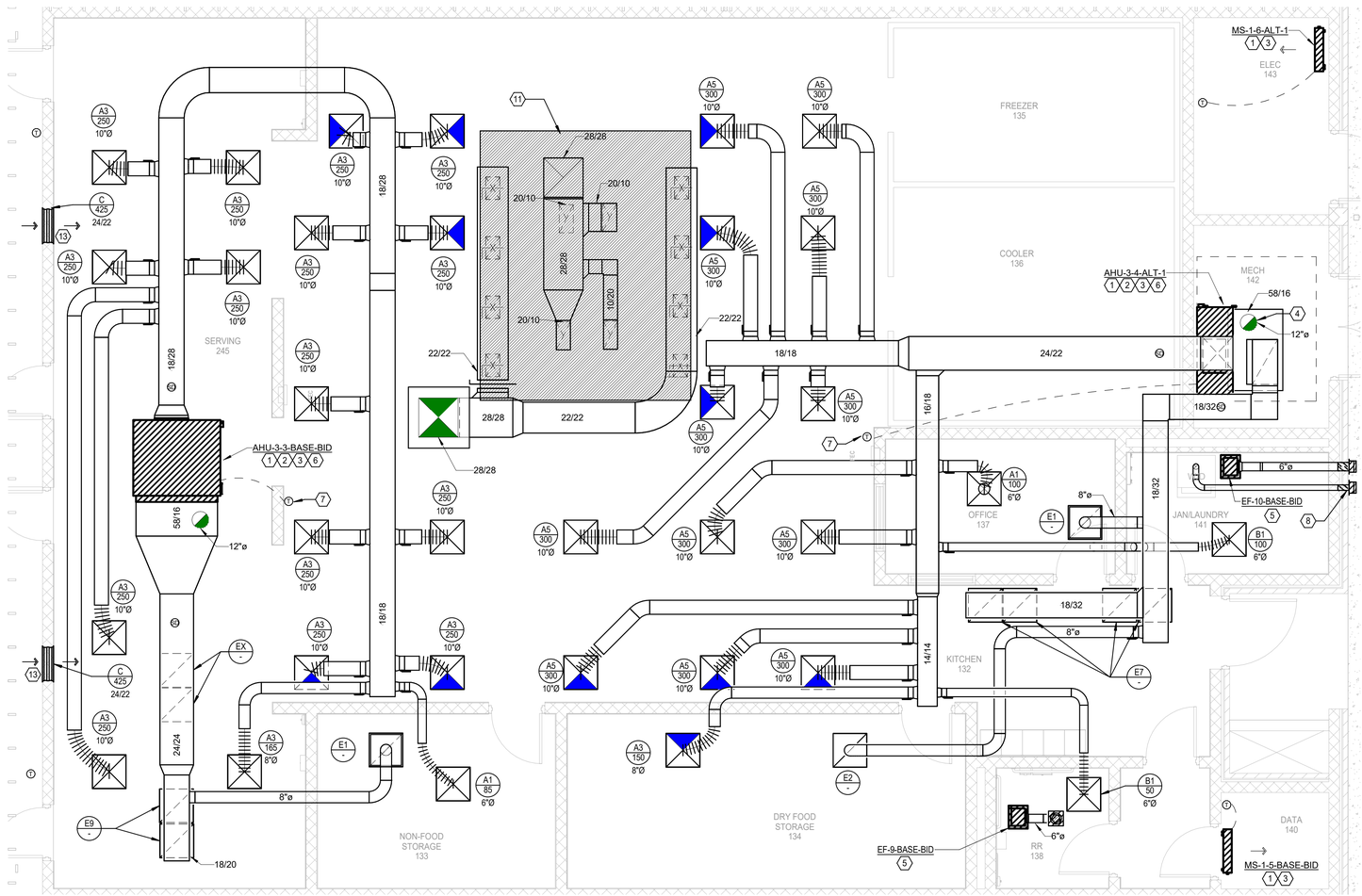
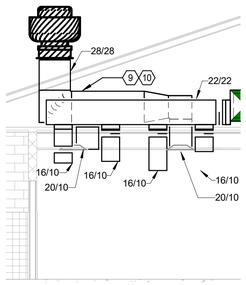


N

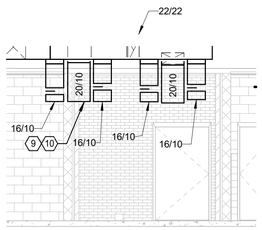
1 1ST FLOOR MECHANICAL PLAN - AREA B - ALTERNATE #1 - ENLARGED KITCHEN

Scale: 1/4" = 1'-0"



2 KITCHEN HOOD - EAST VIEW

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



3 KITCHEN HOOD - WEST VIEW

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

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2. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED AIR TERMINALS AND DEVICES WITH LIGHT FIXTURES AND ALL OTHER CEILING MOUNTED EQUIPMENT. REFER TO ARCHITECT'S LATEST REFLECTED CEILING PLAN AND COORDINATE WITH GENERAL CONTRACTOR AND ENGINEER (IN WRITING) PRIOR TO COORDINATING ANY REVISIONS.
4. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.
5. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.
6. ALL CONDENSATE DRAINS SHALL BE FULL SIZED UNLESS NOTED OTHERWISE.
7. PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN 'AUTO' MODE.
8. COORDINATE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH ARCHITECTURAL ROOF PLAN AND STRUCTURAL DRAWINGS PRIOR TO ROUGH-IN.
9. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
10. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
11. HVAC CONTRACTOR MUST COORDINATE DUCT WALL PENETRATIONS WITH THE MASONRY CONTRACTOR FOR BOTH EXTERIOR AND INTERIOR WALLS TO ENSURE PROPER LINTEL SUPPORT IS PROVIDED FOR THE DUCT PENETRATION. ANY CONFLICTS DUE TO LACK OF COORDINATION WILL REQUIRE REWORK BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
12. HVAC CONTRACTOR MUST COORDINATE WITH THE WOOD ROOF TRUSS SUPPLIER TO ISSUE THEIR DUCTWORK SHOP DRAWINGS AFTER THE ROOF TRUSS SUPPLIER HAS ISSUED THEIR SHOP DRAWINGS TO ENSURE PROPER DUCT SIZE AND LAYOUT CAN BE ACCOMODATED. ANY REWORK OF DUCTWORK DUE TO LACK OF COORDINATION AND IMPROPER SUBMITTAL TIMING WILL REQUIRE REWORK BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.

MECHANICAL KEYED NOTES

1. ROUTE FULL SIZED INSULATED CONDENSATE DRAIN WITH AIR GAP TO FLOOR DRAIN. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION OF FLOOR DRAIN.
2. PROVIDE AUXILIARY EMERGENCY DRAIN PAN WITH EMERGENCY OVERFLOW FLOAT SWITCH. PAN SHALL BE MINIMUM 4" DEEP AND SHALL EXTEND OUT FROM UNDER UNIT 6" ON ALL SIDES
3. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
4. ROUTE OUTSIDE AIR DUCT (SIZES SHOWN) TO LOW PROFILE ROOF CAP. PROVIDE WITH MOTORIZED DAMPER AND MANUAL BALANCING DAMPER. MOTORIZED DAMPER SHALL OPEN WHEN ASSOCIATED AHU IS IN HEATING OR COOLING MODE. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. PROVIDE GREENHECK MODEL GRSI-10 OR APPROVED EQUAL. LOCATE INTAKE MIN 10'-0" FROM ALL BUILDING EXHAUST OUTLETS.
5. ROUTE EXHAUST DUCT (SIZES SHOWN) UP TO LOW PROFILE WALL CAP. PROVIDE GREENHECK MODEL WC-8 OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS.
6. PROVIDE SMOKE DETECTORS IN THE RETURN AND SUPPLY DUCT. COORDINATE WITH ELECTRICAL CONTRACTOR TO INSTALL.
7. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT INTERLOCKED WITH AHU. FIELD ROUTE THERMOSTAT CONTROL WIRE UP TO AHU.
8. ROUTE 4"Ø DRYER EXHAUST VENT TO DRYER VENT WALL CAP WITH BACK DRAFT DAMPER. PROVIDE INOVATE MODEL DWV4 DRYER WALL VENT. CONTRACTOR TO VERIFY LENGTH OF DUCT ROUTE IS LESS THAN OR EQUAL TO 35 FEET WITH 5 FOOT ADDED TO TOTAL LENGTH FOR EVERY 4" 90° BEND. PROVIDE PERMANENT NAMEPLATE WITH TOTAL DUCT RUN WITHIN 6'-0" FROM EXHAUST CONNECTION
9. EXHAUST DUCT SIZED AT 1700 FPM AND 8800 CFM.
10. KITCHEN GREASE EXHAUST DUCT SHALL BE WELDED BLACK STEEL CONSTRUCTION. SLOPE DUCT 1/4" EVERY 1' TOWARDS HOOD. PROVIDE CLEANOUTS IN EACH CHANGE OF DIRECTION. PROVIDE WITH FIREWRAPPING. KITCHEN EXHAUST CLEANOUTS SHALL BE PLACED EVERY 20' AND EVERY 10' FOR CHANGES IN DIRECTION GREATER THAN 45 DEGREES. CLEANOUTS SHALL BE IN ACCESSIBLE LOCATION AND EXACT LOCATION SHALL BE COORDINATED WITH OWNER.
11. KITCHEN HOOD TO BE PROVIDED BY OTHER.
12. PROVIDE OUTDOOR AIR HANDLING UNIT WITH TEMPERATURE AND HUMIDITY SENSORS.
13. MOUNT TRANSFER LOUVERS 8' 6" A.F.F.

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BID DOCUMENTS

M123

ENLARGED PLANS

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Registration: 0008168
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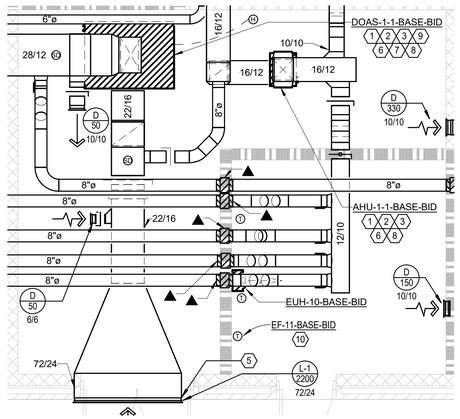
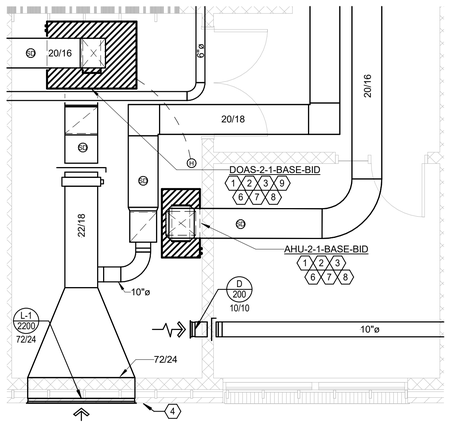


1 1ST FLOOR MECHANICAL PLAN - MECHANICAL 123 BASE BID

Scale: 1/4" = 1'-0"



2 2ND FLOOR MECHANICAL PLAN - MECHANICAL 217 - BASE BID

Scale: 1/4" = 1'-0"

MECHANICAL GENERAL NOTES

1. ALL NEW WORK AS SHOWN ON CONTRACT DOCUMENTS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL CODES ACCEPTED IN JURISDICTION TO THE SATISFACTION OF THE CODE AUTHORITY HAVING JURISDICTION.
2. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR, INCREASE ACCORDINGLY WHERE INTERIOR LINER IS SHOWN OR SPECIFIED.
3. COORDINATE IN THE FIELD THE EXACT LOCATION OF ALL CEILING MOUNTED AIR TERMINALS AND DEVICES WITH LIGHT FIXTURES AND ALL OTHER CEILING MOUNTED EQUIPMENT. REFER TO ARCHITECT'S LATEST REFLECTED CEILING PLAN AND COORDINATE WITH GENERAL CONTRACTOR AND ENGINEER (IN WRITING) PRIOR TO COORDINATING ANY REVISIONS.
4. ALL EXTERIOR BRACKETS, CLAMPS, AND HANGERS SHALL BE HOT DIPPED GALVANIZED. COAT ALL CUT ENDS AND WELDS WITH "ZRC" COLD GALVANIZING COMPOUND.
5. SHOP PRIME ALL MISCELLANEOUS INTERIOR BRACKETS AND HANGERS UNLESS GALVANIZED OR STAINLESS STEEL.
6. ALL CONDENSATE DRAINS SHALL BE FULL SIZED UNLESS NOTED OTHERWISE.
7. PROGRAMMABLE THERMOSTAT SHALL REMAIN IN FAN 'AUTO' MODE.
8. COORDINATE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH ARCHITECTURAL ROOF PLAN AND STRUCTURAL DRAWINGS PRIOR TO ROUGH-IN.
9. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
10. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
11. HVAC CONTRACTOR MUST COORDINATE DUCT WALL PENETRATIONS WITH THE MASONRY CONTRACTOR FOR BOTH EXTERIOR AND INTERIOR WALLS TO ENSURE PROPER LINTEL SUPPORT IS PROVIDED FOR THE DUCT PENETRATION

MECHANICAL KEYED NOTES

1. ROUTE FULL SIZED INSULATED CONDENSATE DRAIN WITH AIR GAP TO FLOOR DRAIN. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION OF FLOOR DRAIN.
2. PROVIDE AUXILIARY EMERGENCY DRAIN PAN WITH EMERGENCY OVERFLOW FLOAT SWITCH. PAN SHALL BE MINIMUM 4" DEEP AND SHALL EXTEND OUT FROM UNDER UNIT 6" ON ALL SIDES
3. VERIFY SERVICE CLEARANCE FOR AIR FILTER, COIL, AND FAN SHAFT REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT. (TYPICAL OF ALL UNITS)
4. ROUTE OUTSIDE AIR DUCT (SIZES SHOWN) TO INTAKE LOUVER. PROVIDE WITH MOTORIZED DAMPER AND MANUAL BALANCING DAMPER. MOTORIZED DAMPER SHALL OPEN WHEN ASSOCIATED AHU IS ENERGIZED. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. PROVIDE GREENHECK MODEL EHH OR APPROVED EQUAL. LOCATE INTAKE MIN 10'-0" FROM ALL BUILDING EXHAUST OUTLETS. (FREE AREA SHOWN). MOUNTING HEIGHT SHALL BE 7' - 4" A.F.F.
5. ROUTE OUTSIDE AIR DUCT (SIZES SHOWN) TO INTAKE LOUVER. PROVIDE WITH MOTORIZED DAMPER AND MANUAL BALANCING DAMPER. MOTORIZED DAMPER SHALL OPEN WHEN ASSOCIATED AHU IS ENERGIZED. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. PROVIDE GREENHECK MODEL EHH OR APPROVED EQUAL. LOCATE INTAKE MIN 10'-0" FROM ALL BUILDING EXHAUST OUTLETS. (FREE AREA SHOWN). MOUNTING HEIGHT SHALL BE 9' - 6" A.F.F.
6. FIELD ROUTE REFRIGERANT LINES TO RESPECTIVE OUTDOOR UNIT. ROUTE REFRIGERANT LINES IN WALL TO THE RESPECTIVE UNIT.
7. PROVIDE SMOKE DETECTORS IN THE RETURN AND SUPPLY DUCT. COORDINATE WITH ELECTRICAL CONTRACTOR TO INSTALL.
8. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT INTERLOCKED WITH AHU. FIELD ROUTE THERMOSTAT CONTROL WIRE UP TO AHU.
9. PROVIDE OUTDOOR AIR HANDLING UNIT WITH TEMPERATURE AND HUMIDITY SENSORS.
10. PROVIDE THERMOSTAT FOR INLINE FAN FOR PUMP ROOM. THERMOSTAT SHALL BE LOCKED OUT AT 80 DEGREES.

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BID DOCUMENTS

M124

ENLARGED PLANS

H/S

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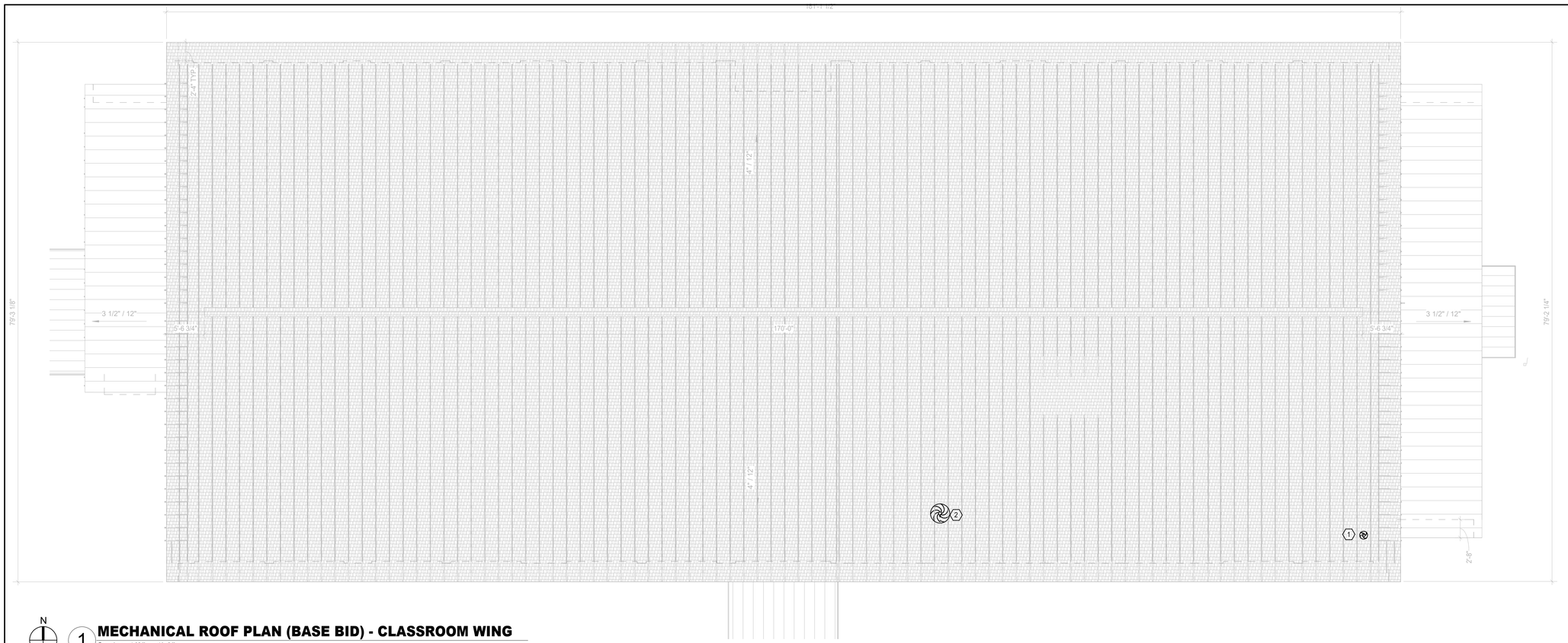
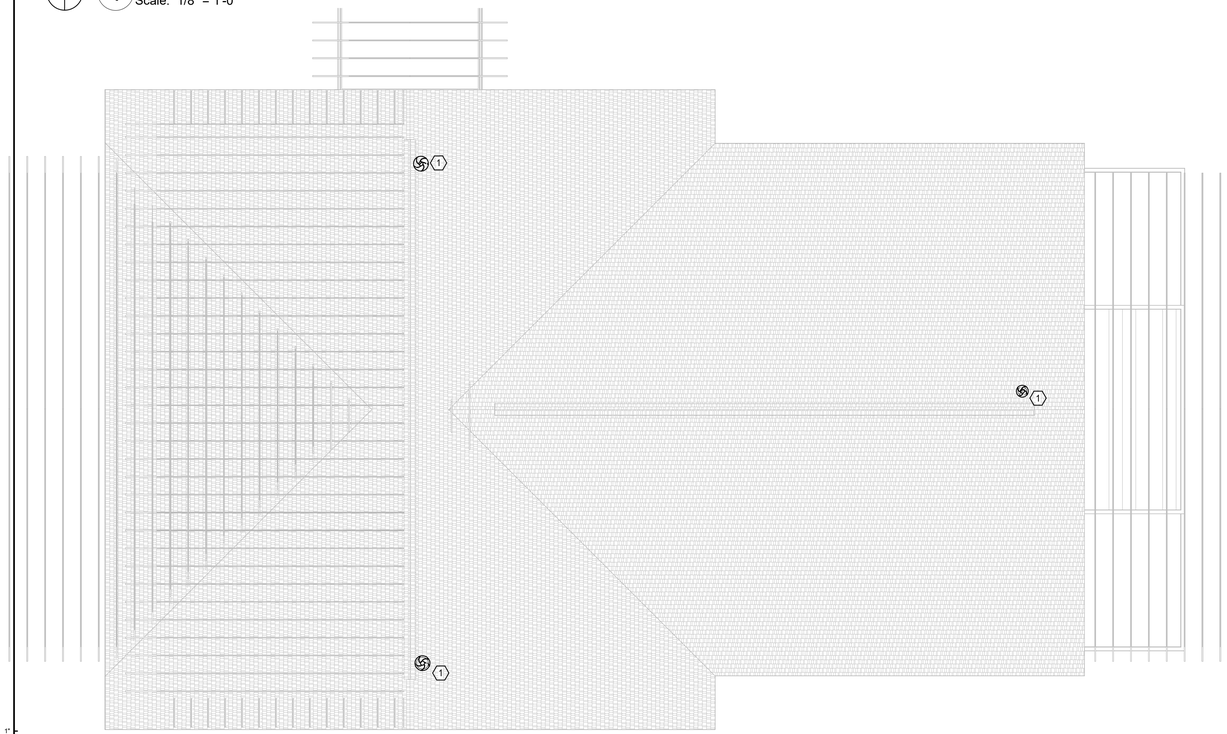


N

1 MECHANICAL ROOF PLAN (BASE BID) - CLASSROOM WING

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



N

2 MECHANICAL ROOF PLAN (BASE BID) - DINING HALL & WARMING KITCHEN

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

1"
1/2"
0"
1"

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MECHANICAL GENERAL NOTES

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MECHANICAL KEYED NOTES

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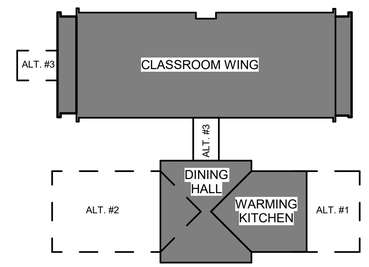
2. ROUTE EXHAUST DUCT (SIZES SHOWN) UP TO LOW PROFILE ROOF CAP. PROVIDE GREENHECK GRSR OR APPROVED EQUAL. COORDINATE WITH ARCHITECT FOR COLOR SELECTION. LOCATE EXHAUST MIN 10'-0" FROM ALL BUILDING OUTSIDE AIR INLETS.

KEY PLAN



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BID DOCUMENTS

M201

ROOF PLANS (BASE BID)

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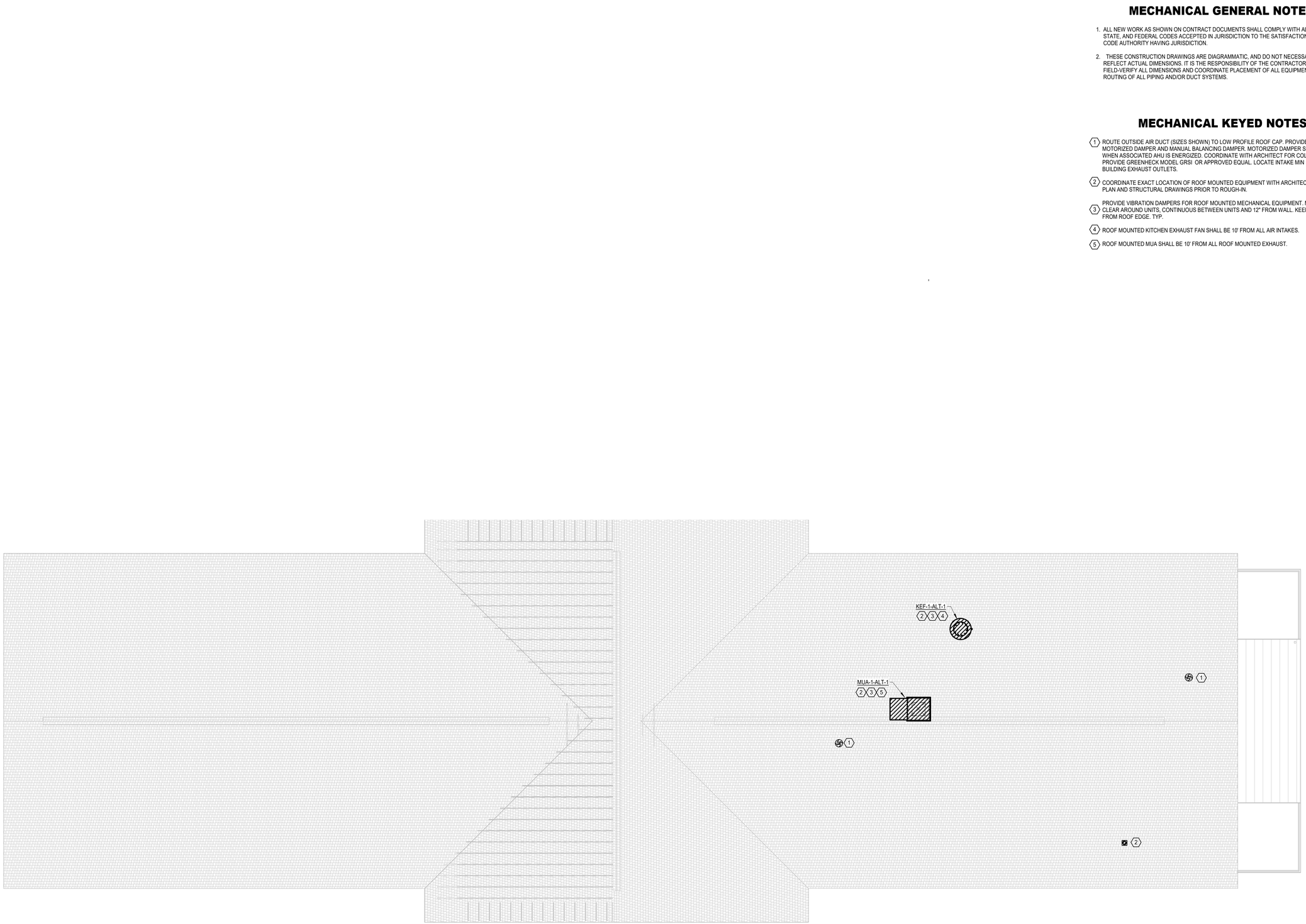
2. COORDINATE EXACT LOCATION OF ROOF MOUNTED EQUIPMENT WITH ARCHITECTURAL ROOF PLAN AND STRUCTURAL DRAWINGS PRIOR TO ROUGH-IN.
3. PROVIDE VIBRATION DAMPERS FOR ROOF MOUNTED MECHANICAL EQUIPMENT. MINIMUM 36" CLEAR AROUND UNITS, CONTINUOUS BETWEEN UNITS AND 12" FROM WALL. KEEP UNIT 10'-0" FROM ROOF EDGE. TYP.
4. ROOF MOUNTED KITCHEN EXHAUST FAN SHALL BE 10' FROM ALL AIR INTAKES.
5. ROOF MOUNTED MUA SHALL BE 10' FROM ALL ROOF MOUNTED EXHAUST.



N

1 **MECHANICAL ROOF PLAN (ALTERNATE SCOPE)**
Scale: 1/8" = 1'-0"

1" 1/2" 0" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

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PHASE	BIDDING
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PROJECT MANAGER	Author
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ROOF PLANS (ALTERNATES)

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Project No: 2550-01207

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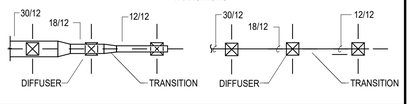
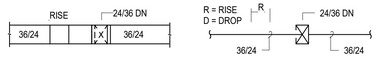
DUCTWORK SYMBOLS LEGEND

TRANSITIONS



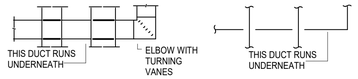
RISERS



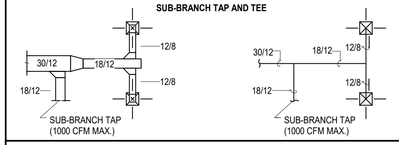
SIDEWALL REGISTERS



DUCT CROSSOVERS



SUB-BRANCH TAP AND TEE



TWO LINE DUCTWORK LEGEND

RECTANGULAR DUCTWORK

30/16

ROUND DUCTWORK

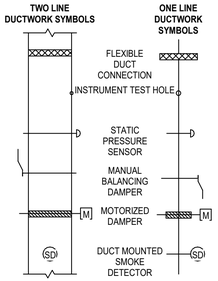
30"ø

FLAT OVAL DUCTWORK

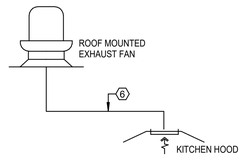
30x16

TWO LINE DUCTWORK SYMBOLS

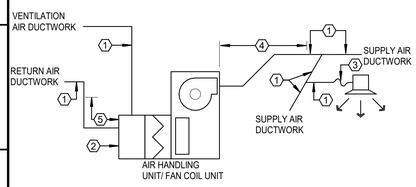
ONE LINE DUCTWORK SYMBOLS



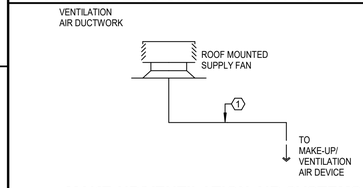
DUCT LINER AND INSULATION



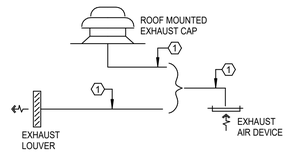
KITCHEN HOOD EXHAUST AIR SYSTEMS



AIR HANDLING UNITS AND FAN COIL UNITS



MAKE-UP/VENTILATION AIR SYSTEMS



EXHAUST AIR SYSTEMS

KEYED NOTES:

1. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
2. SHEETMETAL DUCTWORK RETURN AIR PLENUM WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
3. FLEXIBLE DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
4. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT DISCHARGE TO 10'-0" DOWNSTREAM.
5. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT INLET TO 10'-0" UPSTREAM.
6. EXHAUST DUCTWORK AS SPECIFIED WITH FIREBOARD INSULATION AS SPECIFIED.
7. SHEETMETAL DUCTWORK ONLY. NO INSULATION REQUIRED.

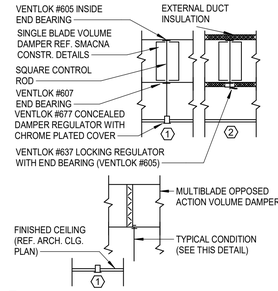
SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
#	KEY NOTE TAG
#	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
S	SMOKE DAMPER (VERTICAL)
S	SMOKE DAMPER (HORIZONTAL)
FS	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
FS	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
M	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
T	THERMOSTAT AND TEMPERATURE SENSOR
SDI	SMOKE DETECTOR
R	REFRIGERANT DETECTOR
H	TEMPERATURE AND HUMIDITY SENSOR
AIR DEVICES	
	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
PIPING	
—D—	CONDENSATE DRAIN LINE
—AD—	AUXILIARY CONDENSATE DRAIN LINE
—RLR—	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES, ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
—RL—	REFRIGERANT LIQUID LINE
—HG—	REFRIGERANT HOT GAS LINE
—RS—	REFRIGERANT SUCTION LINE
	ELBOW UP
	ELBOW DOWN
	90° ELBOW
	45° ELBOW
	TEE
	TEE DOWN
	TEE UP
	TOP BRANCH CONNECTION
	BOTTOM BRANCH CONNECTION
	FLANGE
	CAP
	CONTINUATION

SUBSCRIPTS AND ABBREVIATIONS

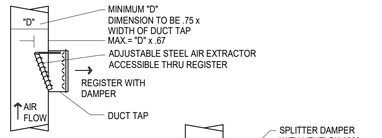
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FPM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR

DUCTWORK CONSTRUCTION DETAILS



1 **DAMPER ABOVE INACCESSIBLE CEILING**

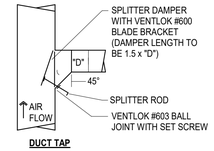
2 **DAMPER ABOVE LIFT-OUT CEILING**



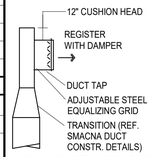
NOTES:

1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN.= 4")

EXTRACTOR SIDEWALL REGISTER



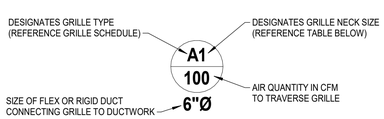
DUCT TAP



SIDEWALL REGISTER AT END OF DUCT

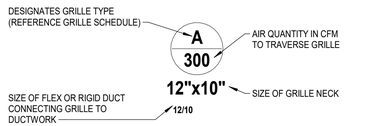
GRILLE SIZING SCHEDULE

STANDARD GRILLE



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.

REGISTER OR NONSTANDARD GRILLE



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"

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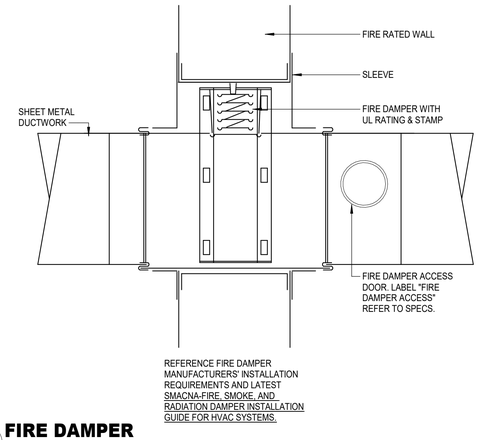
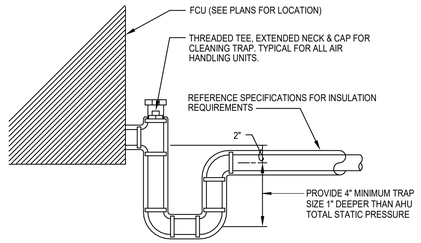
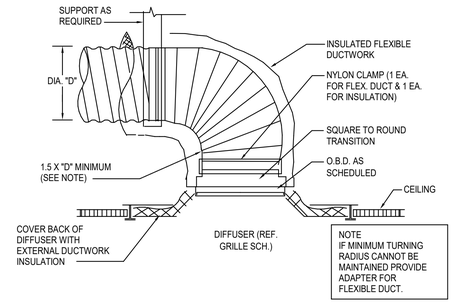


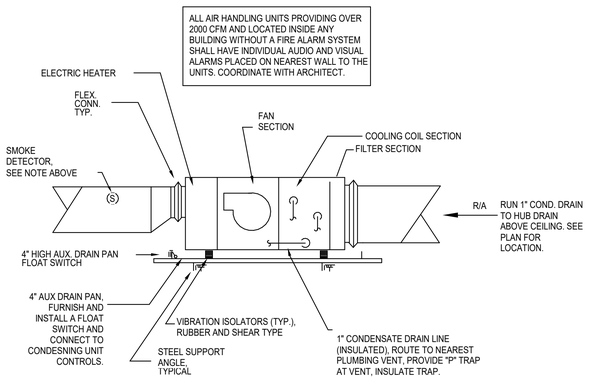
9 FIRE DAMPER
Scale: N.T.S.



6 CONDENSATE DRAIN PIPING AT FCU
Scale: N.T.S.



3 FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
Scale: N.T.S.



8 AIR HANDLING UNIT SECTION
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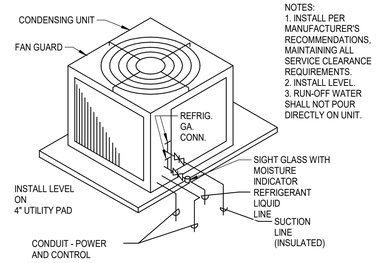

5 CONDENSING UNIT ON UTILITY PAD
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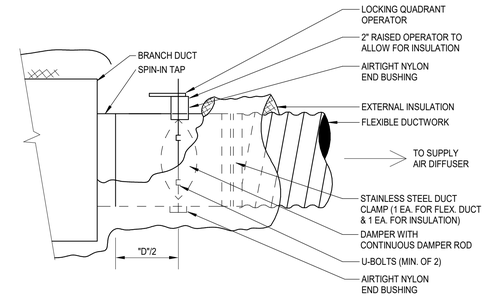
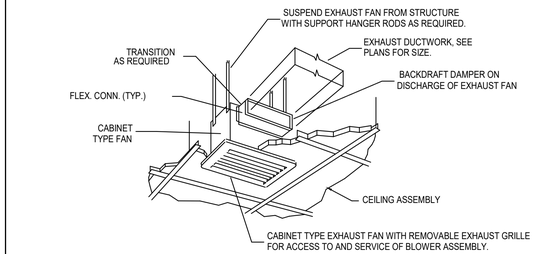
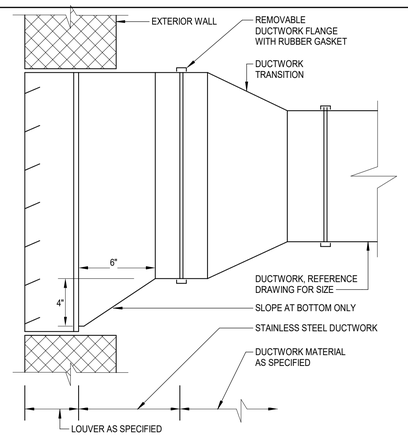


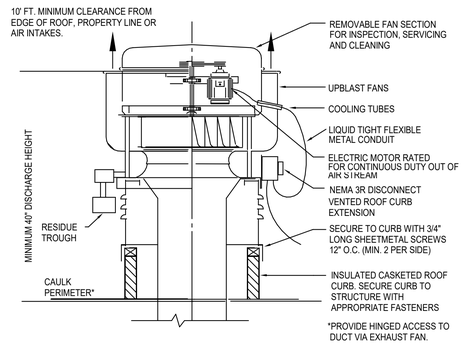
2 FLEXIBLE DUCT TAP - SPIN-IN
Scale: N.T.S.



7 CEILING MOUNTED EXHAUST FAN
Scale: N.T.S.



4 DUCTWORK AT LOUVER
Scale: N.T.S.



1 ROOF MOUNTED FAN INSTALLATION
Scale: N.T.S.

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1" ½" 0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

PRESSURIZATION
CALCULATION - BASE BID - ALTERNATE #1

MARK	EXHAUST AIR CFM	OUTSIDE AIR CFM	MAKE-UP AIR CFM
EF-9	70	0	-70
EF-10	70	0	-70
KEF-1	8800	0	-8800
MUA-1	0	7040	+7040
AHU-3-1	0	900	+900
AHU-3-2	0	900	+900
AHU-3-2	0	500	+500
AHU-3-2	0	500	+500
TOTALS	-8940	+9840	+900

6 PRESSURIZATION CALCULATION
Scale: N.T.S.

PRESSURIZATION
CALCULATION - BASE BID - WARMING KITCHEN

MARK	EXHAUST AIR CFM	OUTSIDE AIR CFM	MAKE-UP AIR CFM
EF-9	70	0	-70
EF-10	70	0	-70
AHU-3-1	0	900	+900
AHU-3-2	0	900	+900
AHU-3-3	0	500	+500
TOTALS	-140	+1700	+2300

5 PRESSURIZATION CALCULATION
Scale: N.T.S.

PRESSURIZATION
CALCULATION - BASE BID - SECOND FLOOR

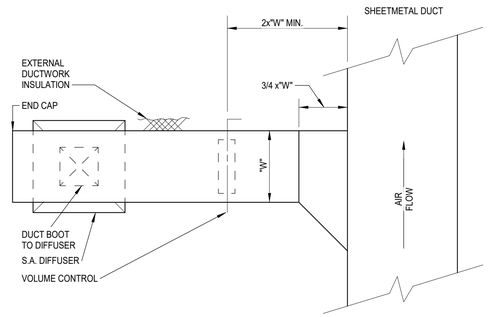
MARK	EXHAUST AIR CFM	OUTSIDE AIR CFM	MAKE-UP AIR CFM
EF-5	70	0	-70
EF-6	70	0	-70
EF-7	350	0	-350
EF-8	350	0	-350
EF-13	200	0	-200
DOAS-2-1	0	2200	+2200
AHU-2-1	0	300	+300
TOTALS	-1040	+2500	+1460

4 PRESSURIZATION CALCULATION
Scale: N.T.S.

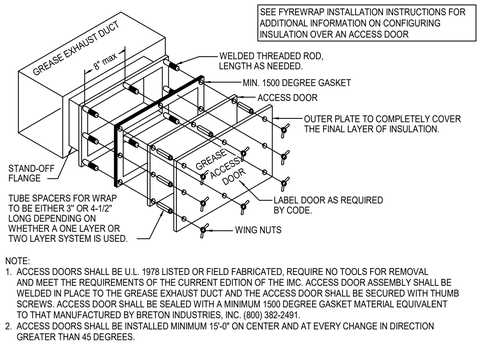
PRESSURIZATION
CALCULATION - BASE BID - FIRST FLOOR

MARK	EXHAUST AIR CFM	OUTSIDE AIR CFM	MAKE-UP AIR CFM
EF-1	70	0	-70
EF-2	70	0	-70
EF-3	350	0	-350
EF-4	350	0	-350
EF-11	150	0	-150
EF-12	330	0	-330
DOAS-1-1	0	2200	+2200
AHU-1-1	0	100	+100
TOTALS	-1320	+2300	+980

3 PRESSURIZATION CALCULATION
Scale: N.T.S.



2 RIGID DUCT TAP TO SINGLE SUPPLY AIR DIFFUSER
Scale: N.T.S.



NOTE:
1. ACCESS DOORS SHALL BE U.L. 1978 LISTED OR FIELD FABRICATED, REQUIRE NO TOOLS FOR REMOVAL AND MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE IMC. ACCESS DOOR ASSEMBLY SHALL BE WELDED IN PLACE TO THE GREASE EXHAUST DUCT AND THE ACCESS DOOR SHALL BE SECURED WITH THUMB SCREWS. ACCESS DOOR SHALL BE SEALED WITH A MINIMUM 1500 DEGREE GASKET MATERIAL EQUIVALENT TO THAT MANUFACTURED BY BRETON INDUSTRIES, INC. (800) 382-2491.
2. ACCESS DOORS SHALL BE INSTALLED MINIMUM 15'-0" ON CENTER AND AT EVERY CHANGE IN DIRECTION GREATER THAN 45 DEGREES.

1 GREASE ACCESS DOOR
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1"
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0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

BASIS OF DESIGN
THE MANUFACTURER AND MODEL NUMBER LISTED IN THE DRAWINGS OR SPECIFICATIONS ARE THE BASIS OF DESIGN. WHEN PROVIDING EQUIPMENT BY AN ACCEPTABLE MANUFACTURER THAT IS NOT BASIS OF DESIGN, THE CONTRACTOR SHALL PROVIDE AS A PART OF THE SUBMITTAL AND/OR SHOP DRAWING AN ITEMIZED LIST OF ALL MODIFICATIONS REQUIRED TO INSTALL THE NON-BASIS OF DESIGN EQUIPMENT FROM THE INFORMATION DETAILED IN BOTH THE SPECIFICATION SECTION AND EQUIPMENT SCHEDULE. ADDITIONALLY, THE EQUIPMENT MUST ADDRESS THE PHYSICAL CONSTRAINTS OF SPACE INCLUDING COORDINATION WITH OTHER TRADES AND ALL EQUIPMENT CLEARANCES. FINALLY, THE CONTRACTOR SHALL PROVIDE AT NO ADDITIONAL COST TO THE PROJECT ANY SCOPE INCREASE BASED ON THE NON-BASIS OF DESIGN EQUIPMENT FOR THE FOLLOWING MINIMUM ITEMS:

- ELECTRICAL MODIFICATIONS, INCLUDING WIRING, CONDUIT, DISCONNECTS, OVERCURRENT PROTECTION, PANELS, MOTORS, ETC.
- PLUMBING MODIFICATIONS, INCLUDING DOMESTIC WATER, SANITARY, CONDENSATE, AND GAS PIPING, ETC.
- STRUCTURAL MODIFICATIONS
- CIVIL MODIFICATIONS
- DUCT AND PIPE CONNECTIONS OR ARRANGEMENTS
- SPACE HEATING AND COOLING REQUIREMENTS
- EXHAUST OR VENTILATION REQUIREMENTS
- VIBRATION ISOLATION REQUIREMENTS
- CONTROLS REQUIREMENTS TO MEET SPECIFICATIONS

OUTDOOR DESIGN CONDITIONS ARE BASED ON MAXIMUM SUMMER TEMPERATURE AND MINIMUM WINTER TEMPERATURE FOR 99.6% OF THE YEAR AT THE NEAREST WEATHER STATION TO THE SITE PER 2021 ASHRAE FUNDAMENTALS.

OUTDOOR DESIGN DEHUMIDIFICATION CONDITION IS BASED ON THE MAXIMUM DEWPOINT FOR 98% OF THE YEAR AT THE NEAREST WEATHER STATION TO THE SITE PER 2021 ASHRAE FUNDAMENTALS.

VENTILATION BASIS OF DESIGN: 2021 INTERNATIONAL MECHANICAL CODE (IMC) & ASHRAE 62.1 - 2019.

INTERIOR SPACE REQUIREMENTS, UNLESS NOTED OTHERWISE:

COOLING DESIGN	COOLING DESIGN	HEATING DESIGN	NOISE DESIGN
75°F DB	50% RH	72°F DB	35 (NC)

PTAC UNIT - ELECTRIC HEAT BASE BID

MARK	LOCATION	EVAPORATOR FAN					COOLING						MIN. HEATING CAPACITY (BTUH)	ELECTRICAL REQUIREMENTS					MODEL	REMARKS
		SUPPLY AIR CFM		OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	AIR TEMPERATURE (°F)			MIN. TOTAL CAPACITY (BTUH)	MIN. SENSIBLE CAPACITY (BTUH)	MINIMUM EER/ SEER		CURRENT CHARAC.			MCA	MOCP		
		HIGH	LOW				ENTERING DRY BULB	ENTERING WET BULB	OUTDOOR AMBIENT					V	PH	F				
PTAC-1-1	CLASSROOM 101	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-2	CLASSROOM 101	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-3	CLASSROOM 102	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-4	CLASSROOM 102	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-5	CLASSROOM 103	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-6	CLASSROOM 103	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-7	CLASSROOM 104	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-8	CLASSROOM 104	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-9	CLASSROOM 105	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-10	CLASSROOM 105	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-11	CLASSROOM 106	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-12	CLASSROOM 106	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-13	CLASSROOM 107	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-14	CLASSROOM 107	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-15	CLASSROOM 108	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-16	CLASSROOM 108	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-17	SERVING 109	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-18	OFFICE 112	312	282	0	0.10	0.1	77.2	64.5	97.0	7,400	5,550	13/13	11,942	265	1	60	17	20	PDE07R	ALL
PTAC-1-19	CLASSROOM 110	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-1-20	CLASSROOM 110	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-1	CLASSROOM 201	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-2	CLASSROOM 201	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-3	CLASSROOM 202	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-4	CLASSROOM 202	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-5	CLASSROOM 203	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-6	CLASSROOM 203	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-7	CLASSROOM 205	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-8	CLASSROOM 205	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-9	CLASSROOM 206	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-10	CLASSROOM 206	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-11	CLASSROOM 207	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-12	CLASSROOM 207	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-13	CLASSROOM 208	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-14	CLASSROOM 208	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-15	CLASSROOM 209	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-16	CLASSROOM 209	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-17	CLASSROOM 210	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-18	CLASSROOM 210	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-19	OFFICE 217a	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-20	CLASSROOM 218	341	306	0	0.10	0.1	77.2	64.5	97.0	14,800	11,100	10.6/-	17,000	265	1	60	24	25	PDE15R	ALL
PTAC-2-21	CLASSROOM 218	312	282	0	0.10	0.1	77.2	64.5	97.0	7,400	5,550	13/13	11,942	265	1	60	17	20	PDE07R	ALL

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
3. CONTROLS ON FACE OF THE UNIT ARE TO BE LOCKED.
4. OA INTAKE IS TO REMAIN CLOSED.
5. PROVIDE PXDR10 CONDENSATE DRAIN KIT.
6. PROVIDE WITH POWDER COATED GALVANIZED STEEL DEEP WALL SLEEVE (WALL THICKNESS IS 13- 3/4")
7. PROVIDE WITH CLEAR ANODIZED ALUMINUM ARCHITECTURAL GRILLE (HEAVY GAUGE 6063-T5 ALUMINUM ALLOY)
8. ACCEPTABLE ALTERNATIVE MANUFACTURERS: AMANA.

AIR COOLED CONDENSING UNIT BASE BID

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER2/SEER2	SEER/IEER	NOM. HEAT CAPACITY (BTUH)	CURRENT CHAR.			RELATED UNIT MARK	BASIS OF DESIGN				REMARKS
						V	P	F		MANUFACTURER	MODEL	MCA	MOCP	
CU-1-1-BASE-BID	30,000	97	-	12/13.40	20472.0	208	1	60	AHU-1-1	TRANE	5TTR	16.0	25	ALL
CU-2-1-BASE-BID	72,000	97	11.5/14.80	-	28240.0	208	1	60	AHU-2-1	TRANE	TTA072	16.0	20	ALL
CU-3-1-BASE-BID	180,000	97	11.2/14.20	-	156690.0	460	3	60	AHU-3-1	TRANE	TTA180	33.0	40	ALL
CU-3-2-BASE-BID	180,000	97	11.2/14.20	-	156680.0	460	3	60	AHU-3-2	TRANE	TTA180	33.0	40	ALL
CU-3-3-BASE-BID	120,000	97	11.5/14.80	-	156680.0	460	3	60	AHU-3-3	TRANE	TTA180	20.0	25	ALL
DOAS-1-1-CU-BASE-BID	180,000	97	15.5/-	-	102360.0	460	3	60	DOAS-1-1	ADDISON	SCOA	23.4	30	ALL
DOAS-2-1-CU-BASE-BID	180,000	97	15.5/-	-	102360.0	460	3	60	DOAS 2-1	ADDISON	SCOA	23.4	30	ALL

GENERAL NOTES:
A. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT CONTROL DOWN TO 20°F.
2. PROVIDE WITH DISCONNECT SWITCH.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.

AIR HANDLING - ELECTRIC HEATING BASE BID

MARK	LOCATIONS	FAN				CURRENT CHAR			COOLING							HEATING				CURRENT CHARAC.			BASIS OF DESIGN				REMARKS
		SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	V	P	F	AIR TEMPERATURE (°F)		LEAVING DRY BULB COOLING	LEAVING WET BULB COOLING	NOM. TOTAL CAPACITY	NOM. SENS. CAPACITY	MINIMUM EER/IEER	EER/SEER2	NUMBER OF STAGES	ENTERING AIR TEMP.(°F)	LEAVING AIR TEMP	KW	NUMBER OF STAGES	V	P	F	MANUFACTURER	MODEL	MCA	MOCP	
									ENTERING DRY BULB	ENTERING WET BULB																		
AHU-1-1-BASE-BID	MECHANICAL 123	1000	100	1.00	0.52	208	1	60	78.3	65.5	55	54.5	30,000	22,500	-	12/13.40	1	63.45	86	7.20	1	208	1	60	TRANE	5TAM	47	50	1,2,3,5,6,7
AHU-2-1-BASE-BID	MECHANICAL 217	2400	300	1.00	1.42	460	3	60	78.3	65.5	55.4	54.54	90,000	67,500	11.5/14.80	-	2	63.45	90	24.92	1	480	3	60	TRANE	TWE073	42	45	1,2,3,5,6,7,8
AHU-3-1-BASE-BID	DINING HALL 126	6000	900	1.00	3.70	460	3	60	78.3	65.5	54.77	54.01	180,000	135,000	11.2/14.20	-	2	63.45	90	49.84	2	480	3	60	TRANE	TWE180	84	90	1,2,3,5,6,7,8
AHU-3-2-BASE-BID	DINING HALL 126	6000	900	1.00	3.70	460	3	60	78.3	65.5	54.77	54.01	180,000	135,000	11.2/14.2	-	2	63.45	90	49.84	2	480	3	60	TRANE	TWE180	84	90	1,2,3,5,6,7,8
AHU-3-3-BASE-BID	KITCHEN 132/MECH 132	4000	500	1.00	2.70	460	3	60	78.3	65.5	56.54	55.54	120,000	90,000	11.5/14.80	-	2	63.23	95	34.88	2	480	3	60	TRANE	TWE120	59	60	1,2,3,5,6,7,8
DOAS-1-1-BASE-BID	MECHANICAL 123	2200	2,200	1.00	1.00	460	3	60	97.5	79.7	53	53	180,000	135,000	14.43/-	-	1	30.00	73	30.00	1	480	3	60	ADDISON	SAOA	53	60	1,2,3,5,6,7,8,9
DOAS-2-1-BASE-BID	MECHANICAL 217	2200	2,200	1.00	1.00	460	3	60	97.5	79.6	53	53	180,000	135,000	14.43/-	-	1	30.00	73	30.00	1	480	3	60	ADDISON	SAOA	53	60	1,2,3,5,6,7,8,9

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
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REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. PROVIDE HORIZONTAL UNIT.
5. PROVIDE VERTICAL UNIT.
6. PROVIDE WITH BI-POLAR IONIZATION KIT. BASIS OF DESIGN: GPS NBPI OR APPROVED EQUAL.
7. PROVIDE WITH TWO SPEED CONTROLS.
8. PROVIDE SMOKE DETECTORS IN THE RETURN AND SUPPLY DUCT.
9. PROVIDE UNIT WITH TEMPERATURE AND HUMIDITY SENSOR.

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STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
10/08/2026

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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BID DOCUMENTS

M400

BASE BID SCHEDULES

Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0008168
Project No: 2550-01207

10/9/2026 10:49:23 AM

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1" 1/2" 0" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

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OUTDOOR DESIGN CONDITIONS ARE BASED ON MAXIMUM SUMMER TEMPERATURE AND MINIMUM WINTER TEMPERATURE FOR 99.6% OF THE YEAR AT THE NEAREST WEATHER STATION TO THE SITE PER 2021 ASHRAE FUNDAMENTALS.

OUTDOOR DESIGN DEHUMIDIFICATION CONDITION IS BASED ON THE MAXIMUM DEWPOINT FOR 98% OF THE YEAR AT THE NEAREST WEATHER STATION TO THE SITE PER 2021 ASHRAE FUNDAMENTALS.

VENTILATION BASIS OF DESIGN: 2021 INTERNATIONAL MECHANICAL CODE (IMC) & ASHRAE 62.1 - 2019.

INTERIOR SPACE REQUIREMENTS, UNLESS NOTED OTHERWISE:

COOLING DESIGN	COOLING DESIGN	HEATING DESIGN	NOISE DESIGN
75°F DB	50% RH	72°F DB	35 (NC)

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	-	ALUMINUM	BY ARCH	PRICE	SPD	SURFACE MOUNT CEILING FRAME STYLE WITH 18"X18" OR 12"X12" FACE.
B	SUPPLY AIR	DIFFUSER	OBD	ALUMINUM	BY ARCH	PRICE	SCD	SURFACE MOUNT CEILING FRAME STYLE WITH 18"X18" OR 12"X12" FACE.
C	TRANSFER AIR	GRILLE	-	ALUMINUM	BY ARCH	PRICE	ATG	DOUBLE DEFLECTION SIDEWALL GRILL. SURFACE MOUNTE
D	RETURN AIR	GRILLE	-	ALUMINUM	BY ARCH	PRICE	600	DOUBLE DEFLECTION SIDEWALL GRILL. SURFACE MOUNTE
E	RETURN AIR	DIFFUSER	-	ALUMINUM	BY ARCH	PRICE	PDR	EXPOSED T-BAR CEILING FRAME STYLE WITH A 24"X24" FACE. PERFORATED.

GENERAL NOTES:
1. DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.
2. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.

REMARKS:
1. N/A

UNIT HEATER - ELECTRIC BASE BID

MARK	LOCATIONS	MINIMUM CAPACITY (BTUH)	KW	NUMBER OF STAGES	CURRENT CHAR.					CFM	MANUFACTURER	MODEL	REMARKS
					V	P	F	MCA	MOCP				
EUH-1-BASE-BID	2ND FLOOR ATTIC	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	ALL
EUH-2-BASE-BID	2ND FLOOR ATTIC	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	ALL
EUH-3-BASE-BID	2ND FLOOR ATTIC	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	ALL
EUH-4-BASE-BID	2ND FLOOR ATTIC	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	ALL
EUH-5-BASE-BID	2ND FLOOR ATTIC	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	ALL
EUH-6-BASE-BID	2ND FLOOR ATTIC	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	ALL
EUH-7-BASE-BID	DINING HALL 126 ATTIC	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	ALL
EUH-8-BASE-BID	DINING HALL 126 ATTIC	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	ALL
EUH-9-BASE-BID	WARMING KITCHEN 123 ATTIC	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	ALL
EUH-10-BASE-BID	PUMP ROOM 122	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	ALL

GENERAL NOTES:
1. PROVIDE MINIMUM CLEARANCE AROUND THE UNIT HEATER PER MANUFACTURER'S RECOMMENDATION.

REMARKS:
1. PROVIDE THERMOSTAT SET TO 40°F.

FAN SCHEDULE BASE BID

TAG	LOCATION	CFMS	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR			INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
						V	P	F						
EF-1-BASE-BID	115 JANITOR	70	0.25	1075	0.15	277	1	60	OCCUPANCY SENSOR	CEILING	DIRECT	COOK	GC	1,3,4
EF-2-BASE-BID	116 FACULTY RR	70	0.30	1075	0.15	277	1	60	OCCUPANCY SENSOR	CEILING	DIRECT	COOK	GC	1,3,4
EF-3-BASE-BID	114 GIRLS	350	0.30	1400	0.15	277	1	60	OCCUPANCY SENSOR	CEILING	DIRECT	COOK	GC	1,3,4
EF-4-BASE-BID	115 BOYS	350	0.30	1400	0.15	277	1	60	OCCUPANCY SENSOR	CEILING	DIRECT	COOK	GC	1,3,4
EF-5-BASE-BID	213 JANITOR	70	0.30	1075	0.15	277	1	60	OCCUPANCY SENSOR	CEILING	DIRECT	COOK	GC	1,3,4
EF-6-BASE-BID	214 FACULTY RR	70	0.30	1075	0.15	277	1	60	OCCUPANCY SENSOR	CEILING	DIRECT	COOK	GC	1,3,4
EF-7-BASE-BID	212 GIRLS	350	0.30	1400	0.15	277	1	60	OCCUPANCY SENSOR	CEILING	DIRECT	COOK	GC	1,3,4
EF-8-BASE-BID	211 BOYS	350	0.30	1400	0.15	277	1	60	OCCUPANCY SENSOR	CEILING	DIRECT	COOK	GC	1,3,4
EF-9-BASE-BID	JAN/LANDRY 129/ RR 138	70	0.25	1075	0.15	277	1	60	OCCUPANCY SENSOR	CEILING	DIRECT	COOK	GC	1,3,4
EF-10-BASE-BID	JAN/LANDRY 141/ RR 131	70	0.25	1075	0.15	277	1	60	OCCUPANCY SENSOR	CEILING	DIRECT	COOK	GC	1,3,4
EF-11-BASE-BID	122 PUMP ROOM	150	0.25	1075	0.16	120	1	60	THERMOSTAT	INLINE	DIRECT	COOK	SQ	1
EF-12-BASE-BID	MECHANICAL 123	330	0.25	1550	0.28	120	1	60	REFRIGERANT DETECTOR	INLINE	DIRECT	COOK	SQ	1,2
EF-13-BASE-BID	MECHANICAL 217	200	0.22	1550	0.28	120	1	60	REFRIGERANT DETECTOR	INLINE	DIRECT	COOK	SQ	1,2

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH AUTOMATIC BACKDRAFT DAMPER, VIBRATION ISOLATION, SPEED CONTROLLER, AND INTEGRAL DISCONNECT.
2. PROVIDE WITH REFRIGERANT DETECTOR.
3. MECHANICAL CONTRACTOR SHALL PROVIDE CEILING MOUNTED OCCUPANCY SENSOR TO BE INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE WITH ARCHITECT'S RCP FOR MAXIMUM EFFECTIVENESS IN SPACE.
4. PROVIDE WITH 277 VOLT TRANSFORMER.

MINI-SPLIT - OUTDOOR UNIT BASE BID

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	MIN HEAT CAPACITY (BTUH)	CURRENT CHARAC.			RELATED UNIT MARK	BASIS OF DESIGN				REMARKS
					V	PH	F		MANUFACTURER	MODEL	MCA	MOCP	
MSCU-1-3-BASE-BID	12,000	98	8.5/18	7972.0	208	1	60	MS-1-3	DAIKIN	RKF	9.20	15	ALL
MSCU-1-4-BASE-BID	12,000	98	8.5/18	7972.0	208	1	60	MS-1-4	DAIKIN	RKF	9.20	15	ALL
MSCU-1-5-BASE-BID	12,000	98	8.5/18	7972.0	208	1	60	MS-1-5	DAIKIN	RKF	9.20	15	ALL
MSCU-2-1-BASE-BID	12,000	98	10/16	12500.0	208	1	60	MS-2-1	DAIKIN	RXP	14.60	15	ALL
MSCU-2-2-BASE--BID	12,000	98	10/16	12500.0	208	1	60	MS-2-2	DAIKIN	RXP	14.60	15	ALL
MSCU-2-3-BASE-BID	12,000	98	8.5/18	7972.0	208	1	60	MS-2-3	DAIKIN	RKF	9.20	15	ALL
MSCU-2-4-BASE-BID	12,000	98	8.5/18	7972.0	208	1	60	MS-1-3	DAIKIN	RKF	9.20	15	ALL

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT KIT.
2. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.

MINI-SPLIT - INDOOR UNIT BASE BID

MARK	FAN				CURRENT CHARAC.			COOLING							HEATING			MANUFACTURER	MODEL	REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	V	P	F	AIR TEMPERATURE (°F) ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	MIN. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER/ SEER	NUMBER OF STAGES	ENTERING AIR TEMP.(°F)	MINIMUM CAPACITY (BTUH)	NUMBER OF STAGES			
MS-1-3-BASE-BID	400	0	0.10	0.5	208	1	60	77.2	64.5	55	54.5	12,564	9,423	8.5/18	1	30	0	0	DAIKIN	FTX	1,2,3,4,5,6
MS-1-4-BASE-BID	400	0	0.10	0.5	208	1	60	77.2	64.5	55	54.5	12,564	9,423	8.5/18	1	30	0	0	DAIKIN	FTX	1,2,3,4,5,6,7
MS-1-5-BASE-BID	400	0	0.10	0.5	208	1	60	77.2	64.5	55	54.5	12,564	9,423	8.5/18	1	30	0	0	DAIKIN	FTX	1,2,3,4,5,6,7
MS-2-1-BASE-BID	400	0	0.25	0.5	208	1	60	77.2	64.5	55	54.5	12,000	9,000	10/16	1	30	12,500	1	DAIKIN	FDMA	1,2,3,4,5
MS-2-2-BASE-BID	400	0	0.25	0.5	208	1	60	77.2	64.5	55	54.5	12,000	9,000	10/16	1	30	12,500	1	DAIKIN	FDMA	1,2,3,4,5
MS-2-3-BASE-BID	400	0	0.10	0.5	208	1	60	77.2	64.5	55	54.5	12,564	9,423	8.5/18	1	30	0	0	DAIKIN	FTX	1,2,3,4,5,6
MS-2-4-BASE-BID	400	0	0.10	0.5	208	1	60	77.2	64.5	55	54.5	12,564	9,423	8.5/18	1	30	0	0	DAIKIN	FTX	1,2,3,4,5,6

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. PROVIDE WITH CONDENSATE PUMP.
6. COOLING ONLY.
7. PROVIDE WITH LONG LINE SET.

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10/08/2026

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PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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BID DOCUMENTS

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BASE BID SCHEDULES

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Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0008168
Project No: 2550-01207

H/S

UNIT HEATER - ELECTRIC ALTERNATIVES

MARK	MINIMUM CAPACITY (BTUH)	KW	NUMBER OF STAGES	CURRENT CHAR.					CFM	MANUFACTURER	MODEL	REMARKS
				V	P	F	MCA	MOCP				
EUH-9-ALT-1	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	1,2
EUH-10-ALT-1	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	1,2
EUH-11-ALT-2	10,236	3	1	277	1	60	11	20	340	REZNOR	EUHC	1,2

GENERAL NOTES:
1. PROVIDE MINIMUM CLEARANCE AROUND THE UNIT HEATER PER MANUFACTURER'S RECOMMENDATION.

REMARKS:
1. PROVIDE THERMOSTAT SET TO 40°F.

FAN SCHEDULE ALTERNATIVES

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR			INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
						V	P	F						
KEF-1-ALT-1	KITCHEN	8800	1.00	1760	5.7	460	3	60	KITCHEN HOOD	CEILING	DIRECT	COOK	GC	1,2,3
MUA-1-ALT-1	KITCHEN	7040	1.00	764	4.11	460	3	60	HOOD	CENTRIFUGAL	BELT	COOK	KSP	1,2,3
HVLS-1-ALT-2	OUTSIDE	0	0.00	106	0.5	120	1	60	SWITCH	HIGH VOLUME LOW SPEED	DIRECT	BIG ASS FANS	ESSENCE	1,3,4,5,6,7,8,9,10,11,12,13,14,15
HVLS-2-ALT-2	OUTSIDE	0	0.00	106	0.5	120	1	60	SWITCH	HIGH VOLUME LOW SPEED	DIRECT	BIG ASS FANS	ESSENCE	1,3,4,5,6,7,8,9,10,11,12,13,14,15
HVLS-3-ALT-2	OUTSIDE	0	0.00	106	0.5	120	1	60	SWITCH	HIGH VOLUME LOW SPEED	DIRECT	BIG ASS FANS	ESSENCE	1,3,4,5,6,7,8,9,10,11,12,13,14,15

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH DISCONNECT.
2. PROVIDE FAN ROOF CURB.
3. FAN(S) TO BE INSTALLED TO MEET ALL FAN CLEARANCE GUIDELINES.
4. VERIFY EXTENSION TUBE LENGTH AND MOUNTING METHODS WITH MANUFACTURER PRIOR TO ORDERING.
5. FAN SHALL BE CAPABLE OF CONTINUOUS OPERATION IN 32F - 104F AMBIENT CONDITIONS.
6. SAFETY CABLE CONSTRUCTED OF AIRCRAFT STAINLESS STEEL PROVIDES ADDITIONAL MEANS OF SECURING FAN TO THE BUILDING STRUCTURE.
7. EXTRUDED ALUMINUM AIRFOILS SUITABLE FOR INDOOR OR OUTDOOR SPACES.
8. PROVIDE AND INSTALL SAFETY CABLE CONSTRUCTED OF AIRCRAFT STAINLESS STEEL TO PROVIDE ADDITIONAL MEANS OF SECURING FAN TO THE BUILDING STRUCTURE.
9. PROVIDE MODULE KIT AND DIMMER SWITCH.
10. FAN SHALL BE UL WET RATED FOR OUTDOOR USE.
11. FAN ASSEMBLY SYSTEM INTERTEK/ETL-CERTIFIED AND BUILT PURSUANT TO CSA C22.2 NO. 113, UL 507
12. PROVIDE MULTIFAN BAFCON.
13. PROVIDE AND INSTALL WOOD FRAME MOUNTING KIT (SECURED BETWEEN TRUSSES) WITH FAN.
14. PROVIDE FAN WITH 3'-0" EXTENSION TUBE.
15. ACCEPTABLE ALTERNATIVE MANUFACTURERS: RITE-HITE.

MINI-SPLIT - OUTDOOR UNIT ALTERNATIVES

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	MIN HEAT CAPACITY (BTUH)	CURRENT CHARAC.			RELATED UNIT MARK	BASIS OF DESIGN				REMARKS
					V	PH	F		MANUFACTURER	MODEL	MCA	MOCP	
MSCU-1-1-ALT-3	12,000	98	10/16	12500.0	208	1	60	MS-1-1	DAIKIN	RXP	15	15	ALL
MSCU-1-2-ALT-3	12,000	98	10/16	12500.0	208	1	60	MS-1-2	DAIKIN	RXP	15	15	ALL
MSCU-1-6-ALT-1	12,000	98	8.5/18	7972.0	208	1	60	MS-1-5	DAIKIN	RKF	9	15	ALL

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT KIT.
2. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.

MINI-SPLIT - INDOOR UNIT ALTERNATIVES

MARK	LOCATIONS	FAN			CURRENT CHARAC.			COOLING								HEATING			MANUFACTURER	MODEL	REMARKS
		SUPPLY AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	V	P	F	AIR TEMPERATURE (°F)				MIN. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER2/SEER2	NUMBER OF STAGES	ENTERING AIR TEMP.(°F)	MINIMUM CAPACITY (BTUH)	NUMBER OF STAGES			
								ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB										
MS-1-1-ALT-3	WEST CORRIDOR	400	0.30	0.5	208	1	60	77.2	64.5	55	54.5	12,000	9,000	16/10	1	30	12,500	1	DAIKIN	FDMA	1,2,3,4,5
MS-1-2-ALT-3	SOUTH CORRIDOR	400	0.30	0.5	208	1	60	77.2	64.5	55	54.5	12,000	9,000	16/10	1	30	12,500	1	DAIKIN	FDMA	1,2,3,4,5
MS-1-6-ALT-1	ELEC 142	400	0.10	0.5	208	1	60	77.2	64.5	55	54.5	12,564	9,423	8.5/18	1	30	0	0	DAIKIN	FTX	1,2,3,4,5,6,7

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. PROVIDE WITH CONDENSATE PUMP.
6. COOLING ONLY.
7. PROVIDE WITH LONG LINE SET.

AIR COOLED CONDENSING UNIT ALTERNATIVES

MARK	NOMINAL TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ IEER	NOM. HEAT CAPACITY (BTUH)	CURRENT CHAR.			RELATED UNIT MARK	BASIS OF DESIGN				REMARKS
					V	P	F		MANUFACTURER	MODEL	MCA	MOCP	
CU-3-4-ALT-1	120,000	97	11.5/14.80	156680.0	460	3	60	AHU-3-4	TRANE	TTA180	20	25	ALL

GENERAL NOTES:
A. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT CONTROL KIT.
2. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.

AIR HANDLING UNITS - ELECTRIC HEATING ALTERNATIVES

MARK	LOCATIONS	FAN				CURRENT CHAR			COOLING							HEATING				CURRENT CHARAC.			BASIS OF DESIGN				REMARKS
		SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	V	P	F	AIR TEMPERATURE (°F)				NOM. TOTAL CAPACITY	NOM. SENS. CAPACITY	MINIMUM EER/IEER	NUMBER OF STAGES	ENTERING AIR TEMP.(°F)	LEAVING AIR TEMP	KW	NUMBER OF STAGES	V	P	F	MANUFACTURER	MODEL	MCA	MOCP	
									ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB COOLING	LEAVING WET BULB COOLING																
AHU-3-4-ALT-1	MECH 141	4000	500	1.00	2.70	460	3	60	78.3	65.5	55.54	55.54	120,000	90,000	11.5/14.80	2	63.23	95	34.88	2	480	3	60	TRANE	TWE120	59	60	1,2,3,5,6

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. PROVIDE HORIZONTAL UNIT.
5. PROVIDE VERTICAL UNIT.
6. PROVIDE SMOKE DETECTORS IN THE RETURN AND SUPPLY DUCT. COORDINATE WITH ELECTRICAL CONTRACTOR TO INSTALL.

BASIS OF DESIGN
THE MANUFACTURER AND MODEL NUMBER LISTED IN THE DRAWINGS OR SPECIFICATIONS ARE THE BASIS OF DESIGN. WHEN PROVIDING EQUIPMENT BY AN ACCEPTABLE MANUFACTURER THAT IS NOT BASIS OF DESIGN, THE CONTRACTOR SHALL PROVIDE AS A PART OF THE SUBMITTAL AND/OR SHOP DRAWING AN ITEMIZED LIST OF ALL MODIFICATIONS REQUIRED TO INSTALL THE NON-BASIS OF DESIGN EQUIPMENT FROM THE INFORMATION DETAILED IN BOTH THE SPECIFICATION SECTION AND EQUIPMENT SCHEDULE. ADDITIONALLY, THE EQUIPMENT MUST ADDRESS THE PHYSICAL CONSTRAINTS OF SPACE INCLUDING COORDINATION WITH OTHER TRADES AND ALL EQUIPMENT CLEARANCES. FINALLY, THE CONTRACTOR SHALL PROVIDE AT NO ADDITIONAL COST TO THE PROJECT ANY SCOPE INCREASE BASED ON THE NON-BASIS OF DESIGN EQUIPMENT FOR THE FOLLOWING MINIMUM ITEMS:

- ELECTRICAL MODIFICATIONS, INCLUDING WIRING, CONDUIT, DISCONNECTS, OVERCURRENT PROTECTION, PANELS, MOTORS, ETC.
- PLUMBING MODIFICATIONS, INCLUDING DOMESTIC WATER, SANITARY, CONDENSATE, AND GAS PIPING, ETC.
- STRUCTURAL MODIFICATIONS
- CIVIL MODIFICATIONS
- DUCT AND PIPE CONNECTIONS OR ARRANGEMENTS
- SPACE HEATING AND COOLING REQUIREMENTS
- EXHAUST OR VENTILATION REQUIREMENTS
- VIBRATION ISOLATION REQUIREMENTS
- CONTROLS REQUIREMENTS TO MEET SPECIFICATIONS

OUTDOOR DESIGN CONDITIONS ARE BASED ON MAXIMUM SUMMER TEMPERATURE AND MINIMUM WINTER TEMPERATURE FOR 99.6% OF THE YEAR AT THE NEAREST WEATHER STATION TO THE SITE PER 2021 ASHRAE FUNDAMENTALS.

OUTDOOR DESIGN DEHUMIDIFICATION CONDITION IS BASED ON THE MAXIMUM DEWPOINT FOR 98% OF THE YEAR AT THE NEAREST WEATHER STATION TO THE SITE PER 2021 ASHRAE FUNDAMENTALS.

VENTILATION BASIS OF DESIGN: 2021 INTERNATIONAL MECHANICAL CODE (IMC) & ASHRAE 62.1 - 2019.

INTERIOR SPACE REQUIREMENTS, UNLESS NOTED OTHERWISE:

COOLING DESIGN	COOLING DESIGN	HEATING DESIGN	NOISE DESIGN
75°F DB	50% RH	72°F DB	35 (NC)

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PROFESSIONAL ENGINEER
10/08/2026

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
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ALT SCHEDULES

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1" ½" 0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

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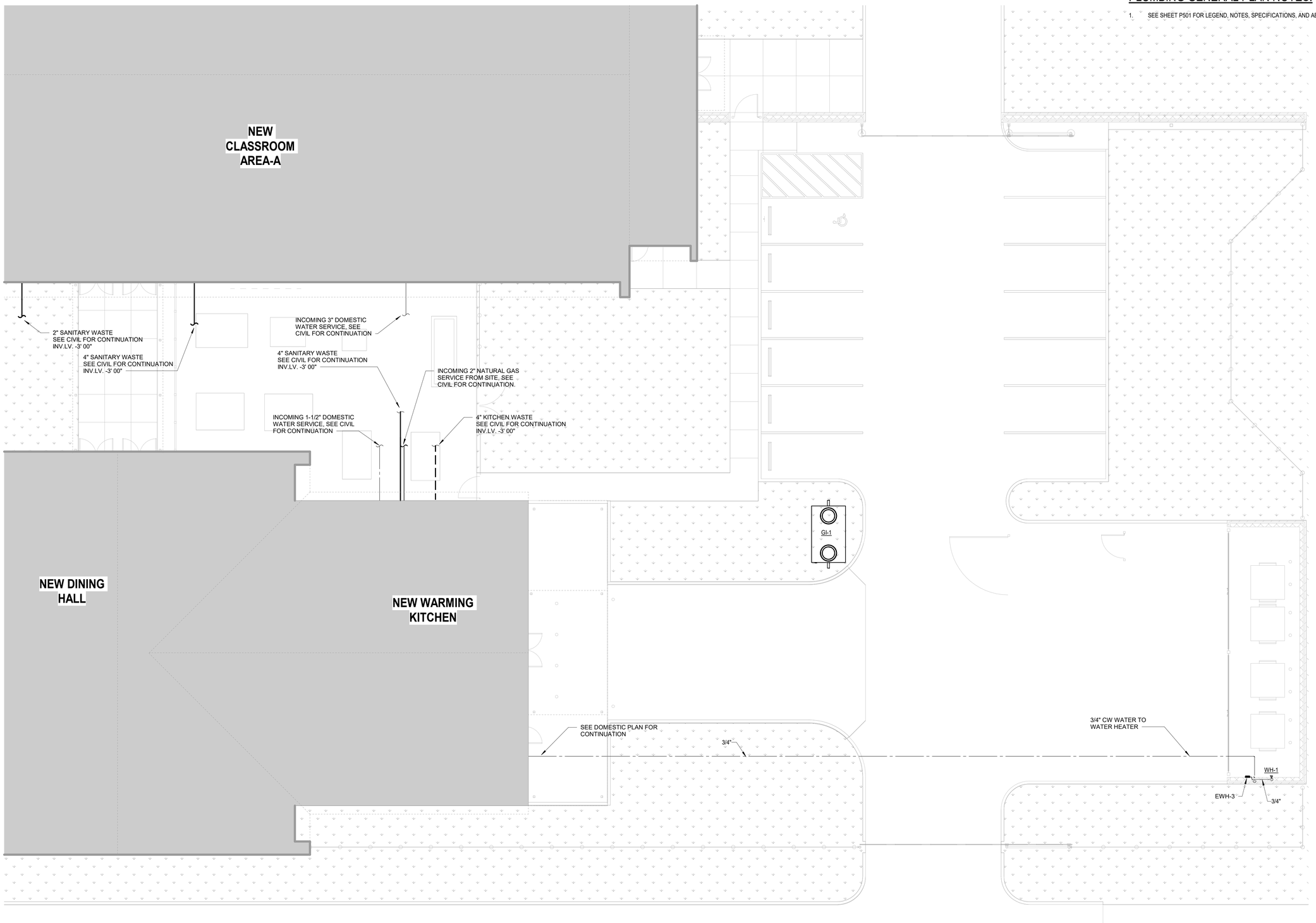

N

1 **ENLARGED PLUMBING SITE PLAN - SERVICE YARD - BASE BID**
Scale: 1/8" = 1'-0"

1"
½"
0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

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ENLARGED SITE PLAN - BASE BID

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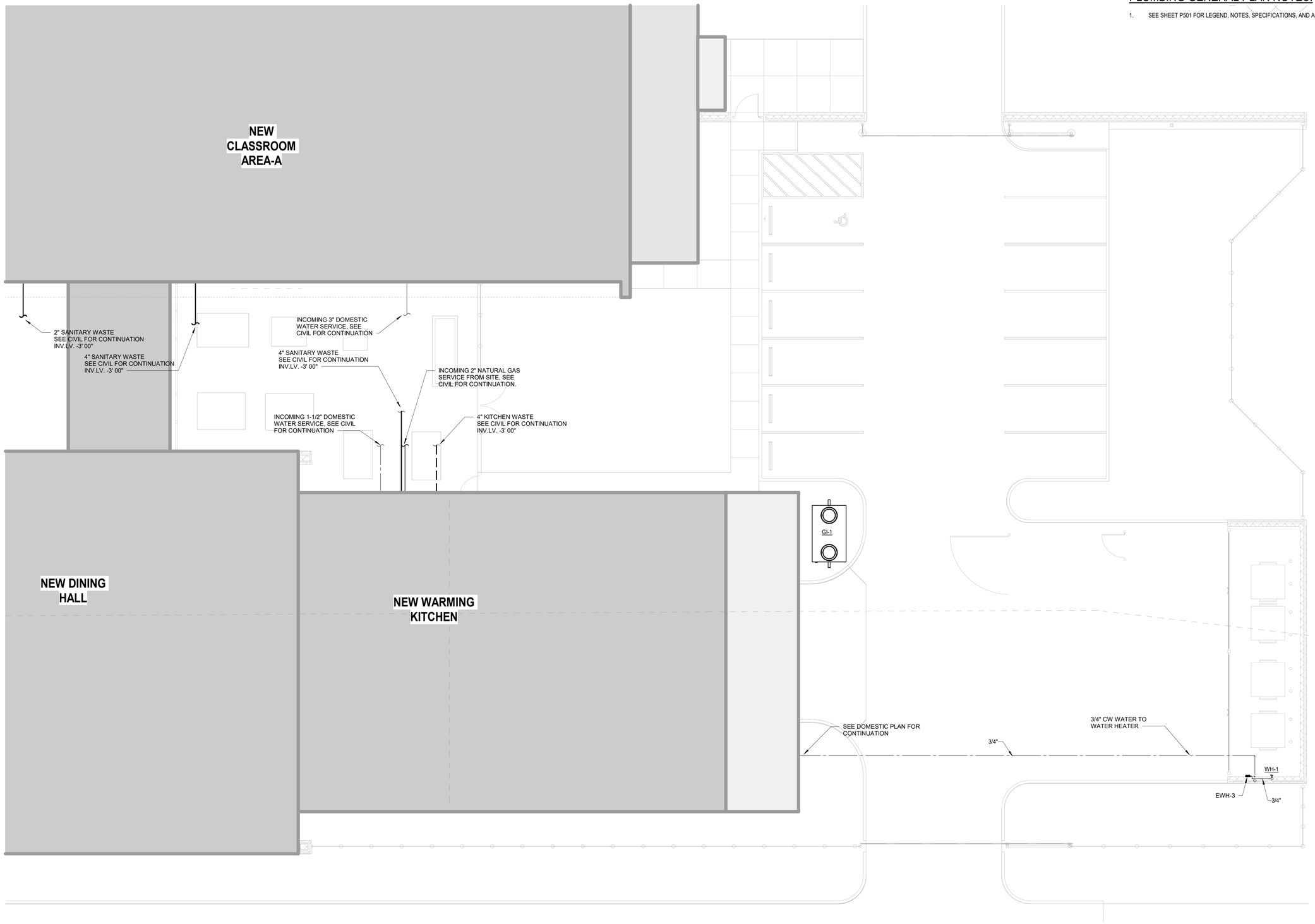

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1 **ENLARGED PLUMBING SITE PLAN - SERVICE YARD - ALTERNATES**

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

1" ½" 0" ½" 1"

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ENLARGED SITE PLAN - ALTERNATES

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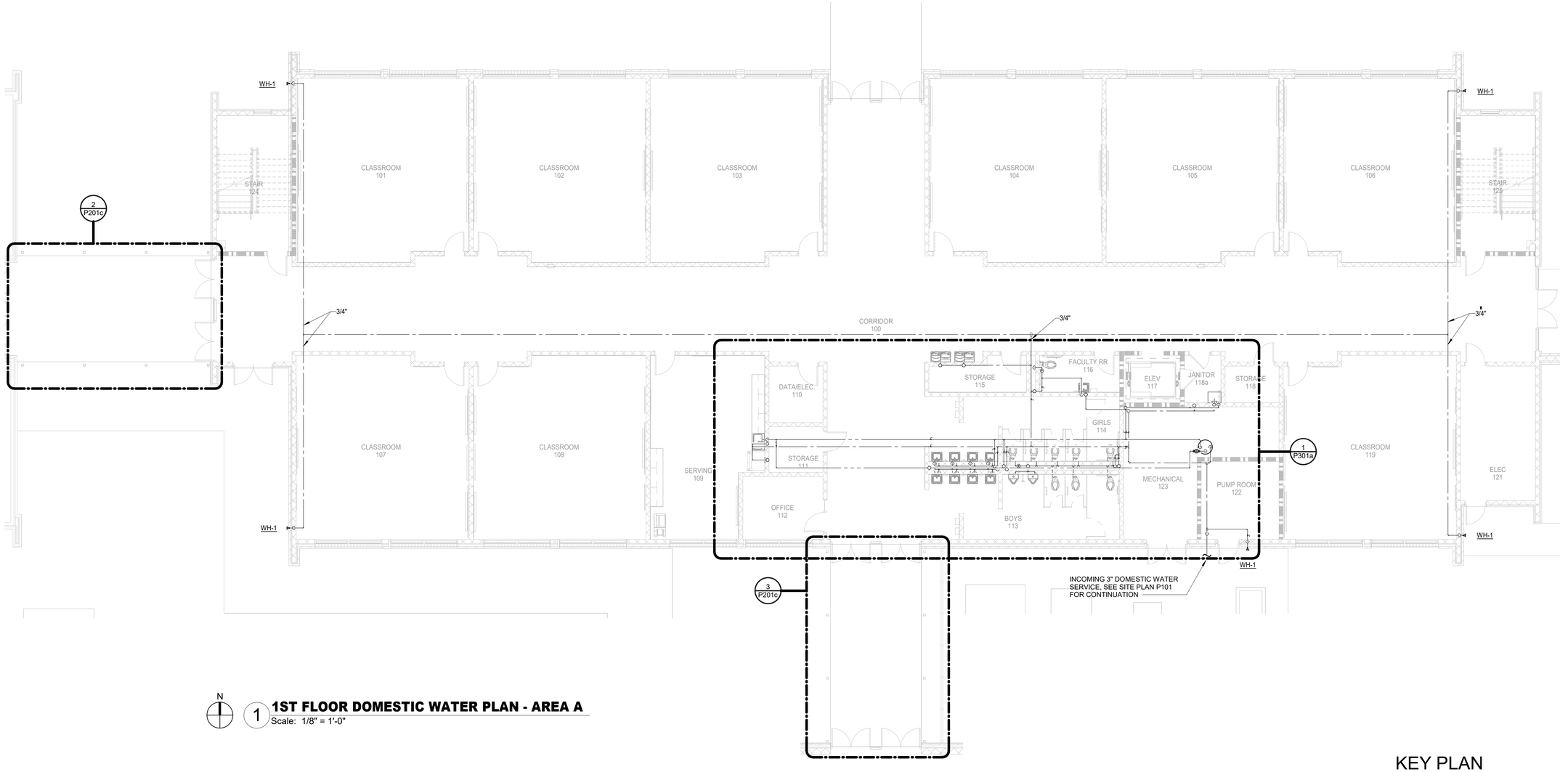

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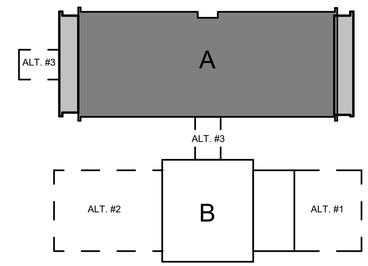
1 **1ST FLOOR DOMESTIC WATER PLAN - AREA A**

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

KEY PLAN



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P201a

1ST FLOOR DOMESTIC WATER PLAN - AREA A

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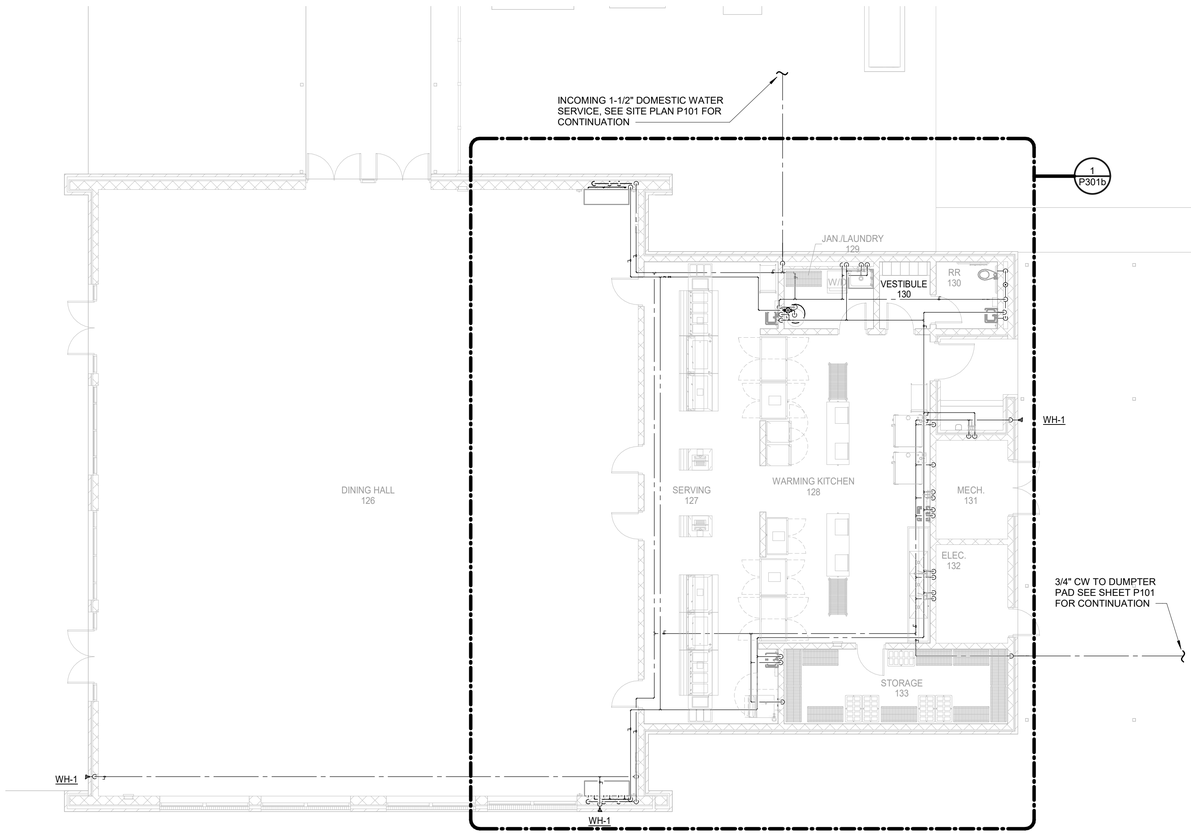

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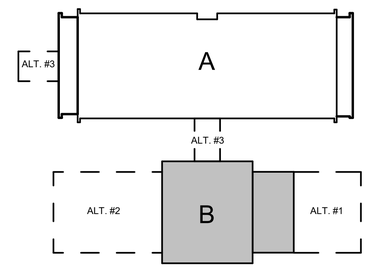
1 **1ST FLOOR DOMESTIC WATER PLAN - AREA B - BASE BID**

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

KEY PLAN



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P201b

1ST FLOOR DOMESTIC WATER PLAN - AREA B - BASE BID

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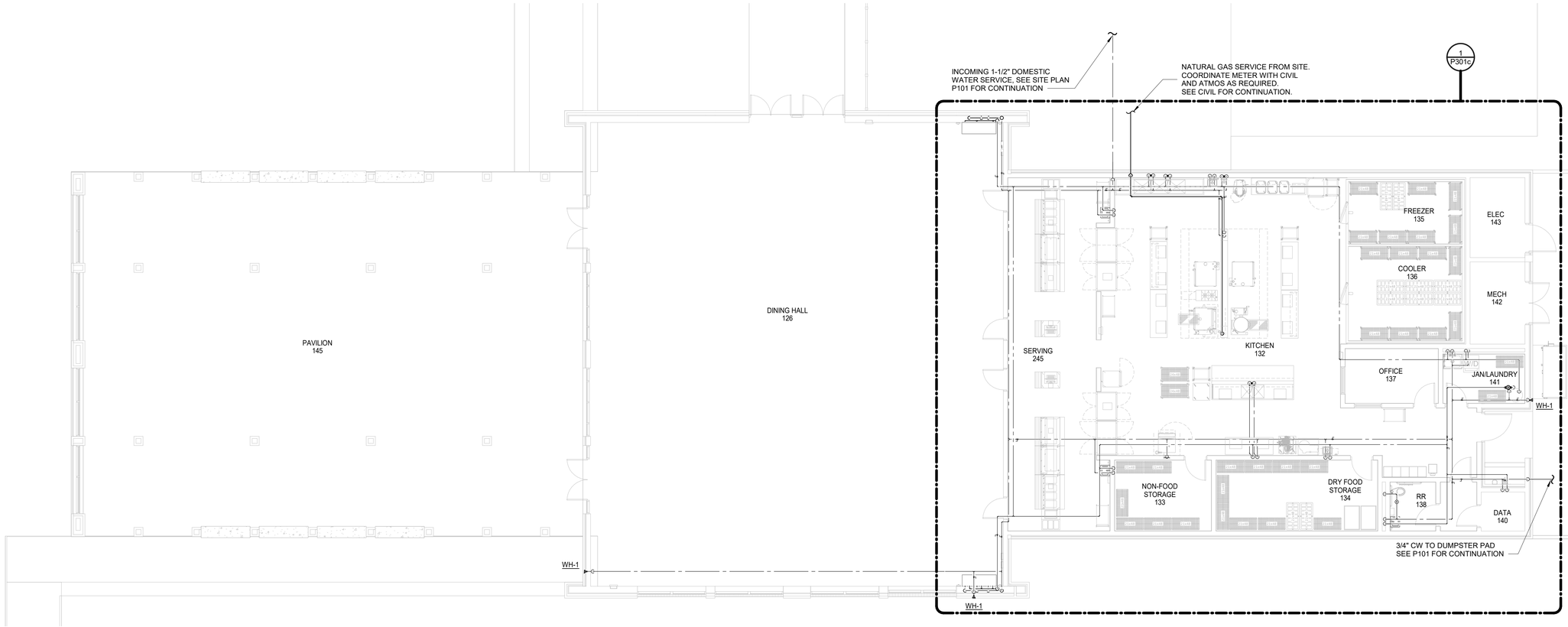

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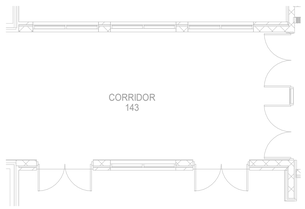
1 1ST FLOOR DOMESTIC WATER PLAN - AREA B - ALTERNATES #1, #2

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



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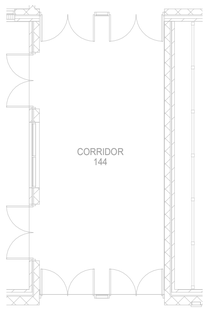
2 1ST FLOOR PLUMBING PLAN - ALTERNATE #3 WEST

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



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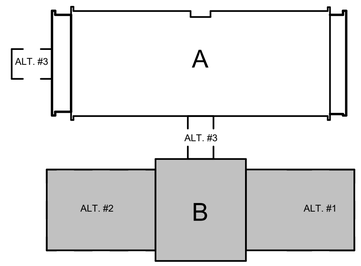
3 1ST FLOOR PLUMBING PLAN - ALTERNATE #3 SOUTH

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

KEY PLAN



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P201c

1ST FLOOR DOMESTIC WATER PLAN - AREA B - ALTERNATES

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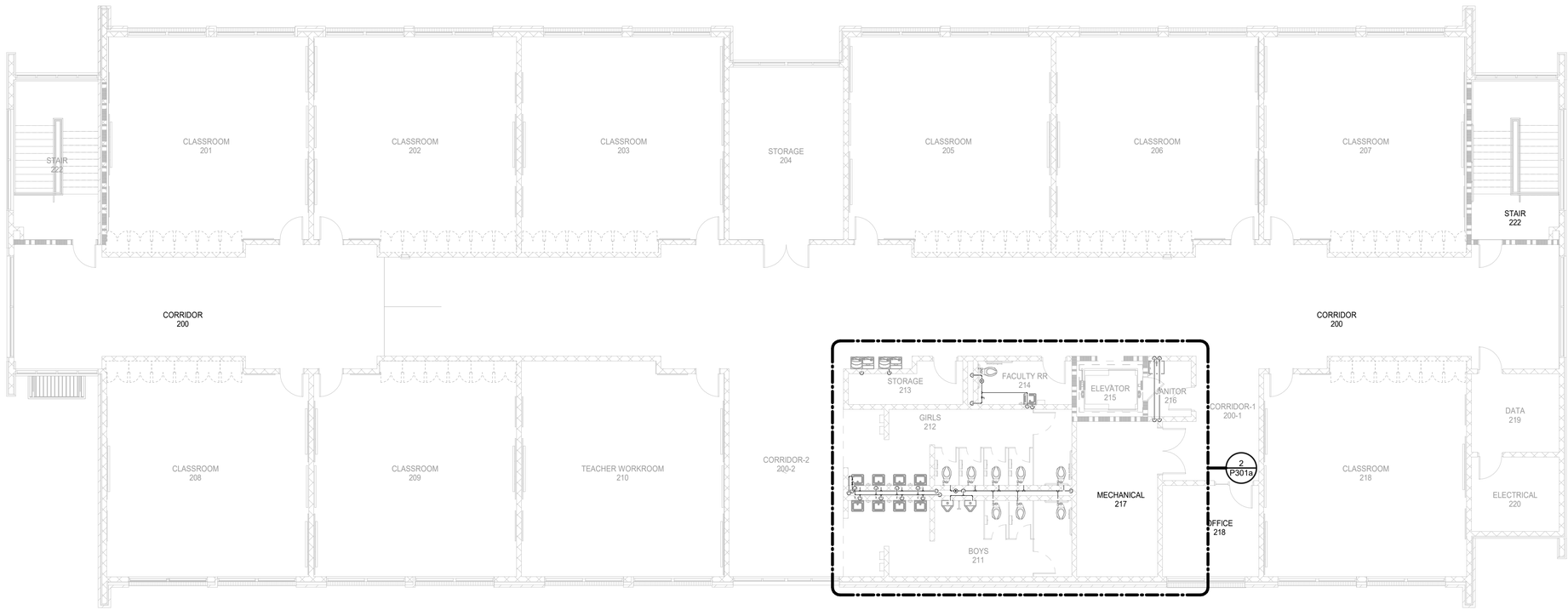
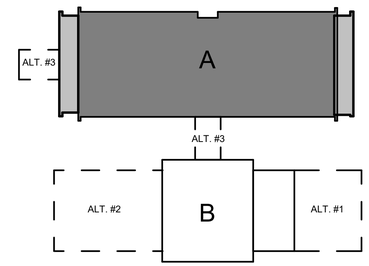


N

1 **2ND FLOOR DOMESTIC WATER PLAN - AREA A**
Scale: 1/8" = 1'-0"

KEY PLAN



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2ND FLOOR DOMESTIC WATER PLAN - AREA A

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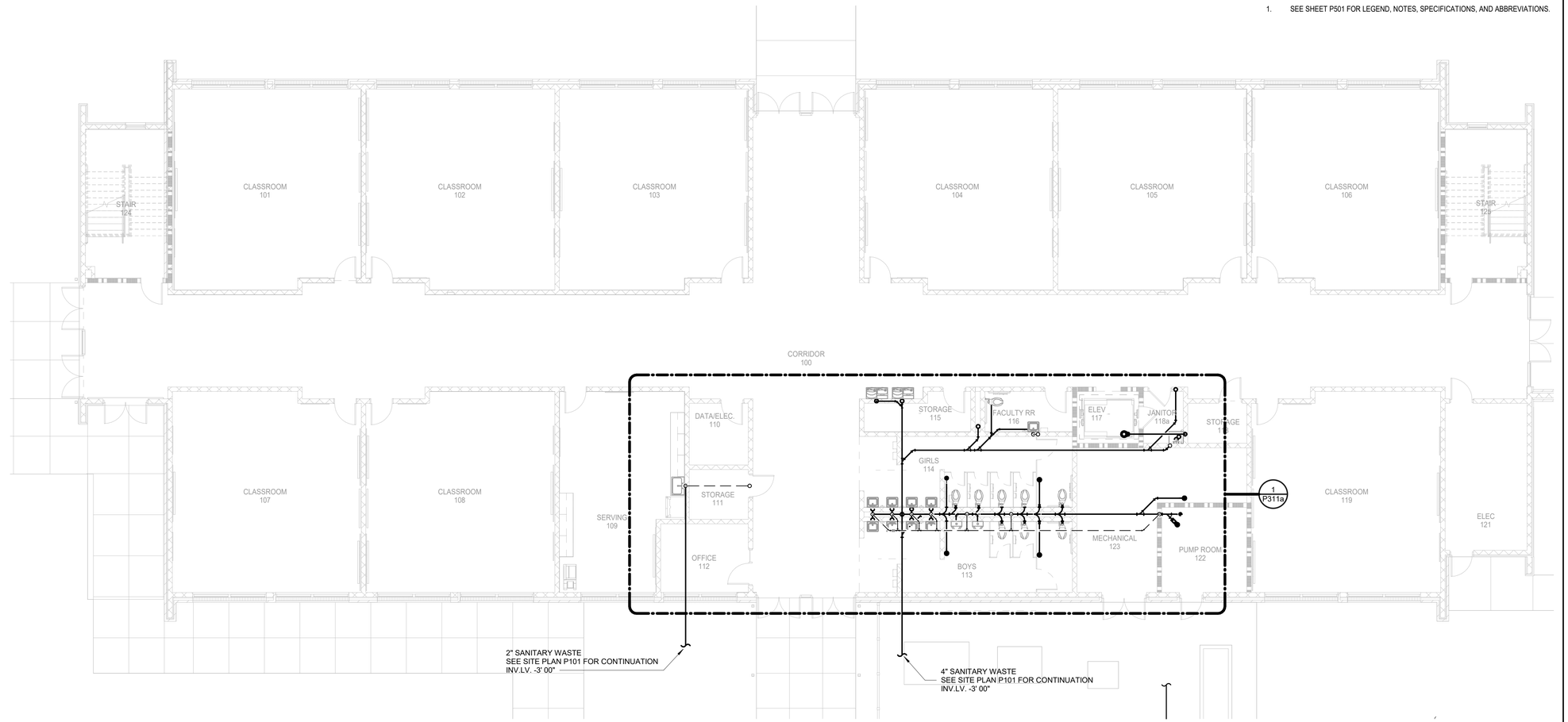

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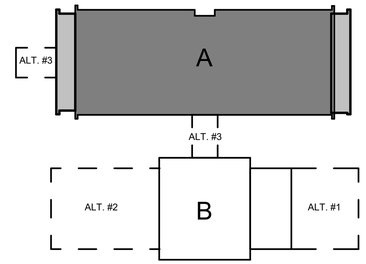
1 1ST FLOOR DWV PLAN - AREA A

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

KEY PLAN



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P211a

1ST FLOOR DWV PLAN - AREA A

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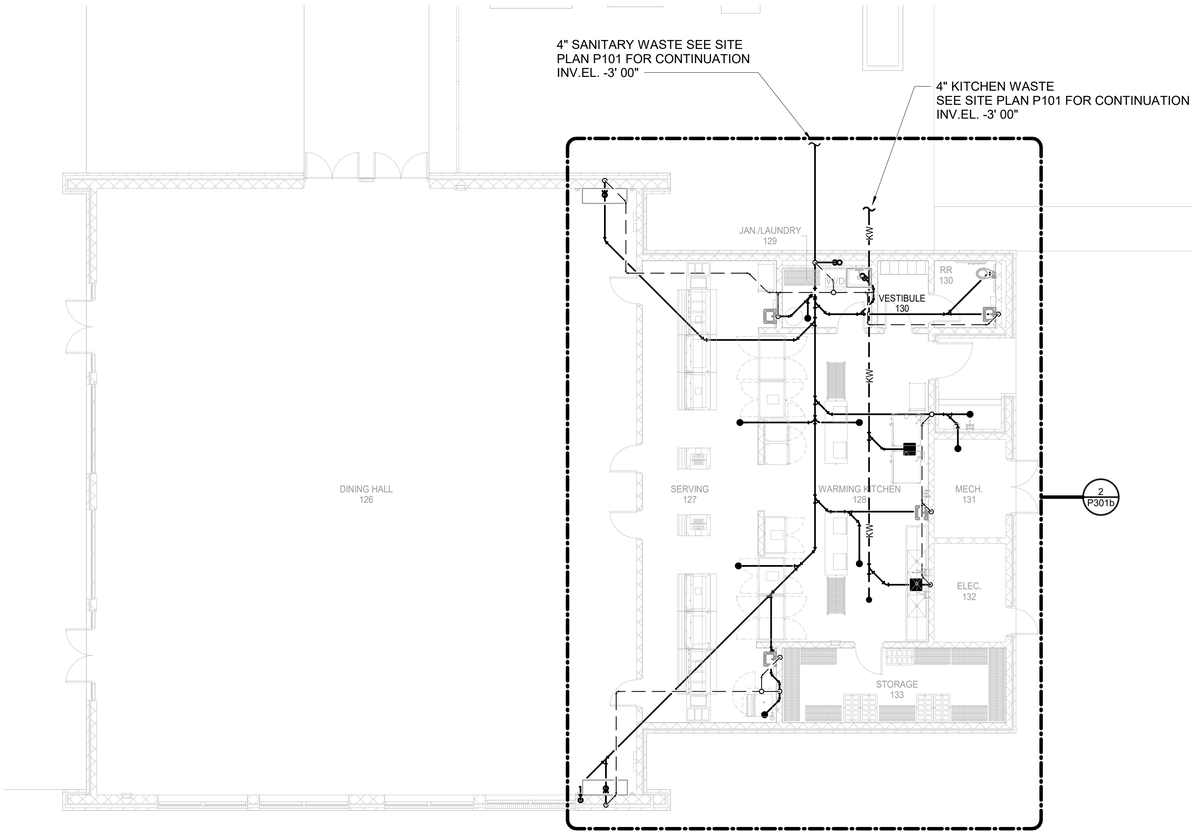
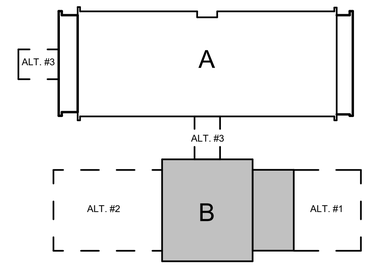


N

1 **1ST FLOOR DWV PLAN - AREA B - BASE BID**
Scale: 1/8" = 1'-0"

KEY PLAN



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1ST FLOOR DWV PLAN - AREA B - BASE BID

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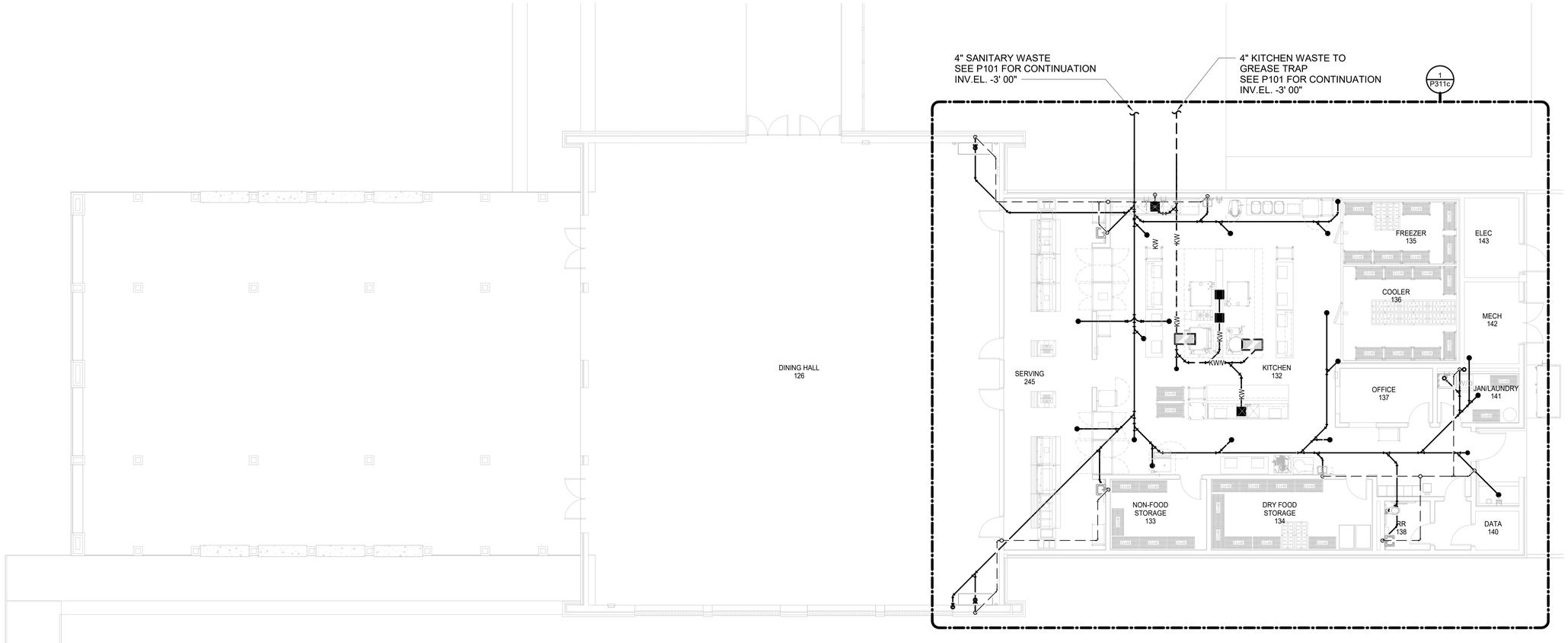
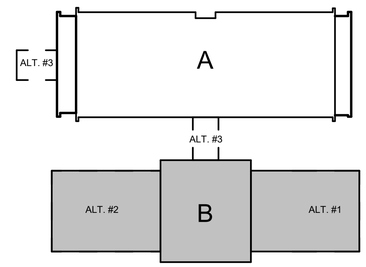


N

1 **1ST FLOOR DWV PLAN - AREA B - ALTERNATES #1, #2**
Scale: 1/8" = 1'-0"

KEY PLAN



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P211c

1ST FLOOR DWV PLAN - AREA B - ALTERNATES

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Project No: 2550-01207

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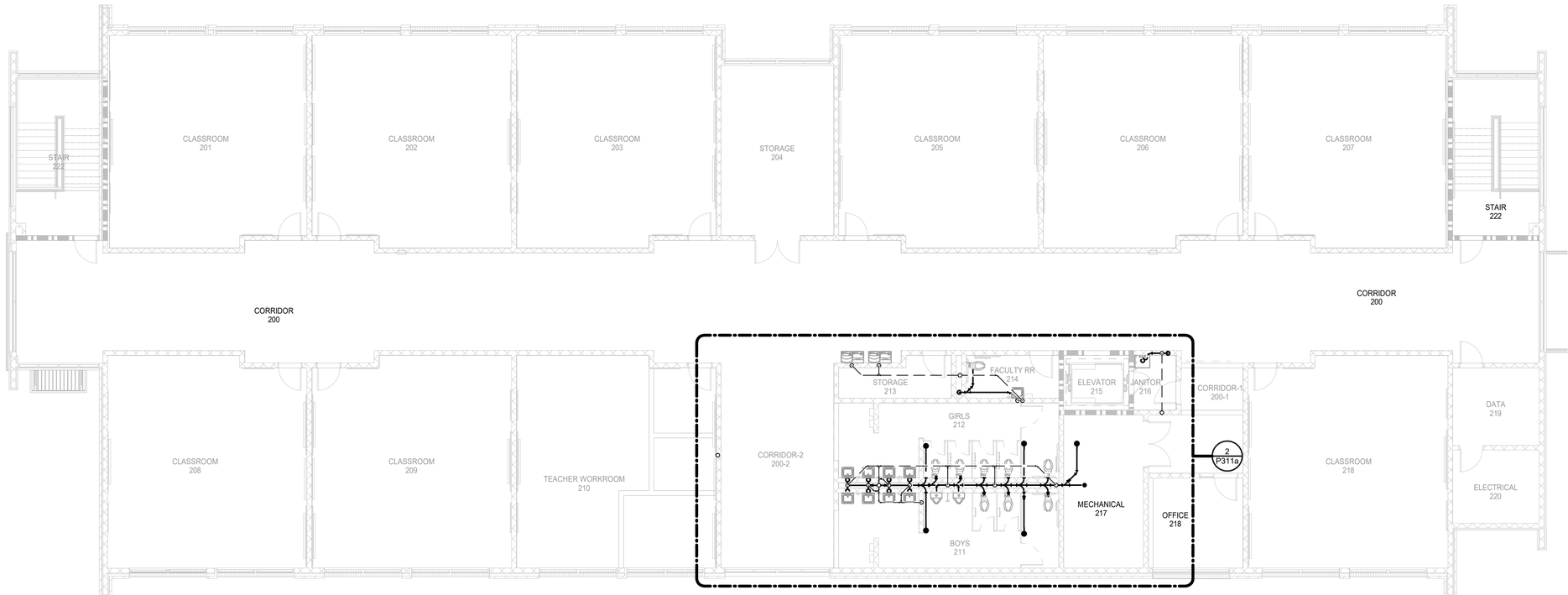
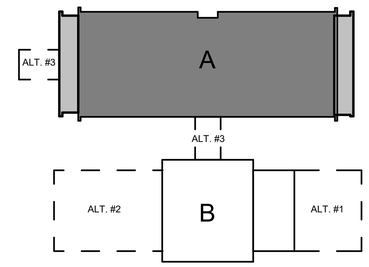


N

1 **2ND FLOOR DWV PLAN - AREA A**
Scale: 1/8" = 1'-0"

KEY PLAN



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NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
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P212a

2ND FLOOR DWV PLAN - AREA A

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1" ½" 0" ½" 1"
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PLUMBING GENERAL PLAN NOTES:

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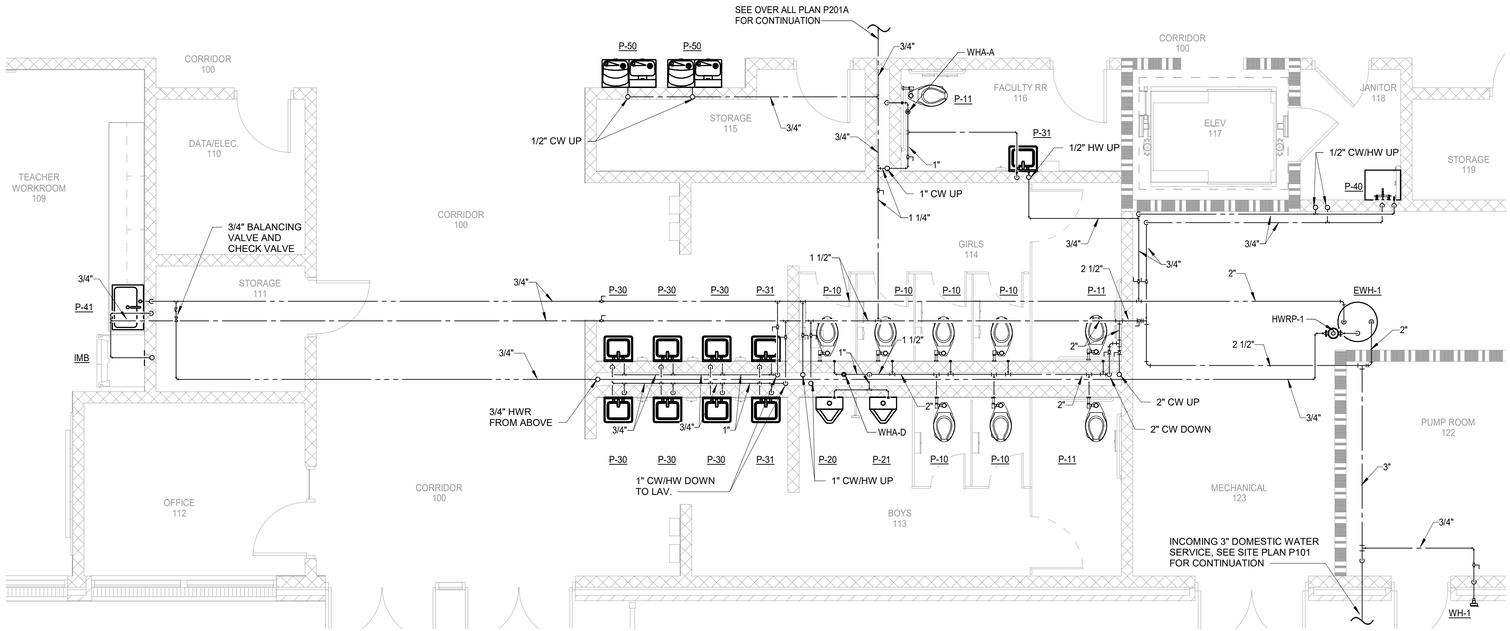

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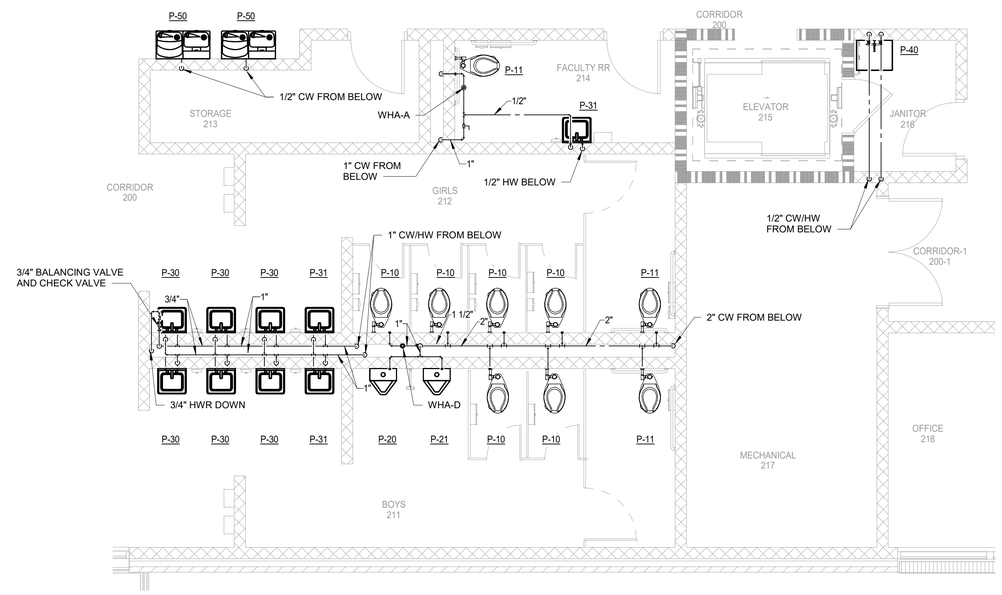
1 ENLARGED - 1ST FLOOR DOMESTIC WATER PLAN - AREA A

Scale: 1/4" = 1'-0"



N

2 ENLARGED - 2ND FLOOR DOMESTIC WATER PLAN - AREA A

Scale: 1/4" = 1'-0"

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NO.	DESCRIPTION	DATE

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DATE	10.08.26
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P301a

ENLARGED DOMESTIC WATER PLANS - AREA A

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1" 1/2" 1" 1/2" 0"

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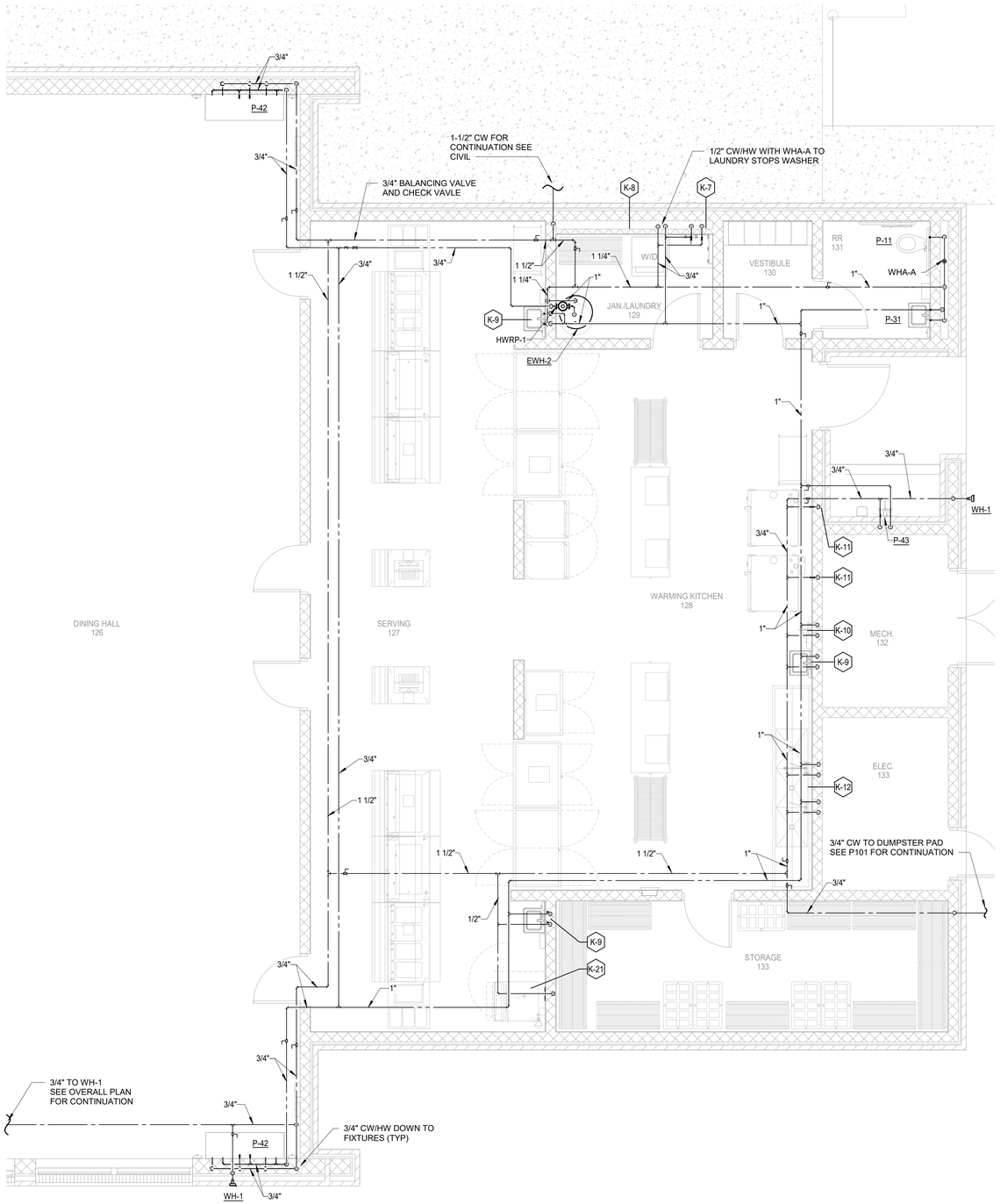
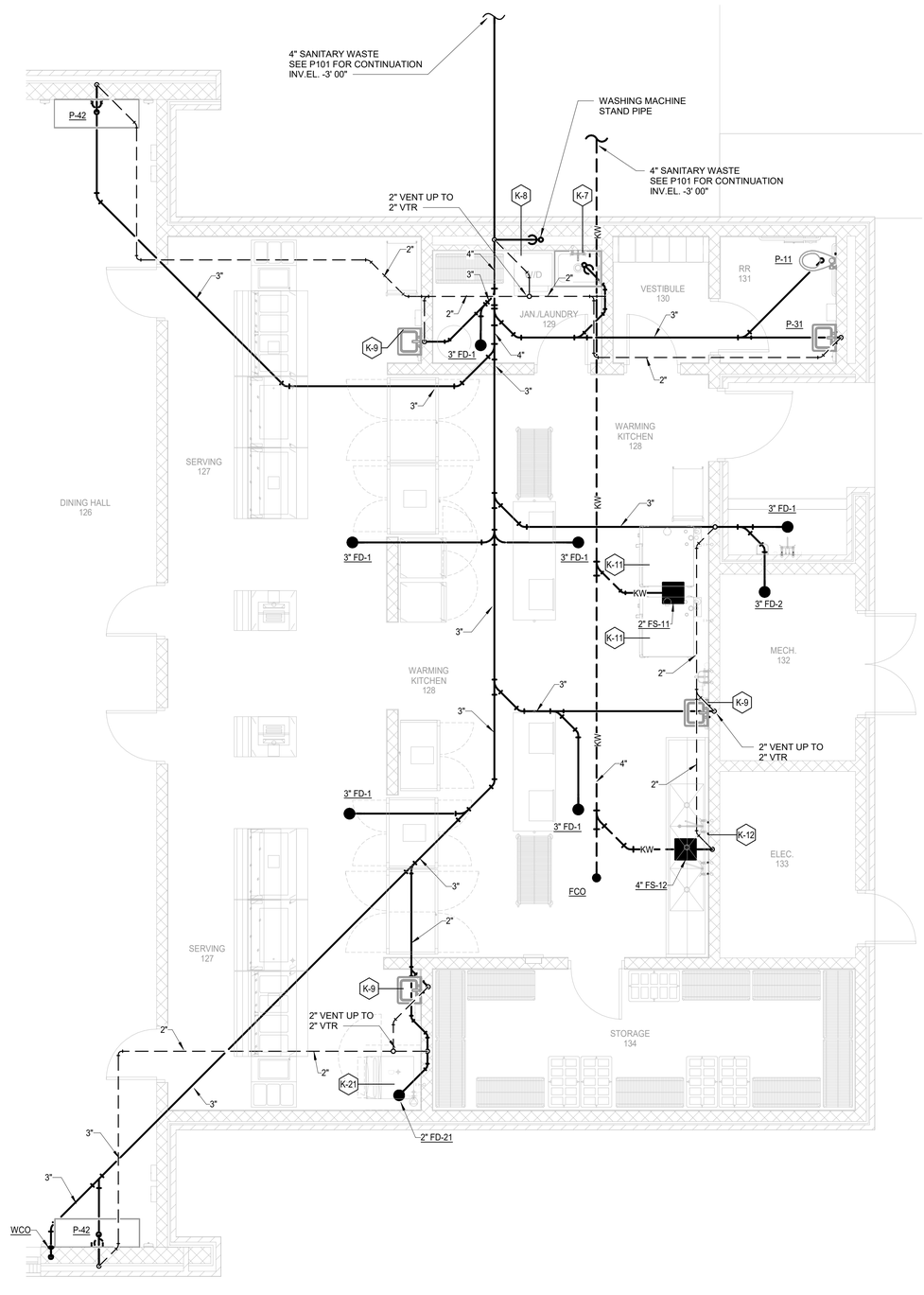


N

1 ENLARGED - DOMESTIC WATER PLAN - KITCHEN - AREA B - BASE BID

Scale: 1/4" = 1'-0"



N

2 ENLARGED - DWV PLAN - KITCHEN - AREA B - BASE BID

Scale: 1/4" = 1'-0"

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P301b

ENLARGED DOMESTIC WATER AND DWV PLANS-KITCHEN - AREA B - BASE BID

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PLUMBING GENERAL PLAN NOTES:

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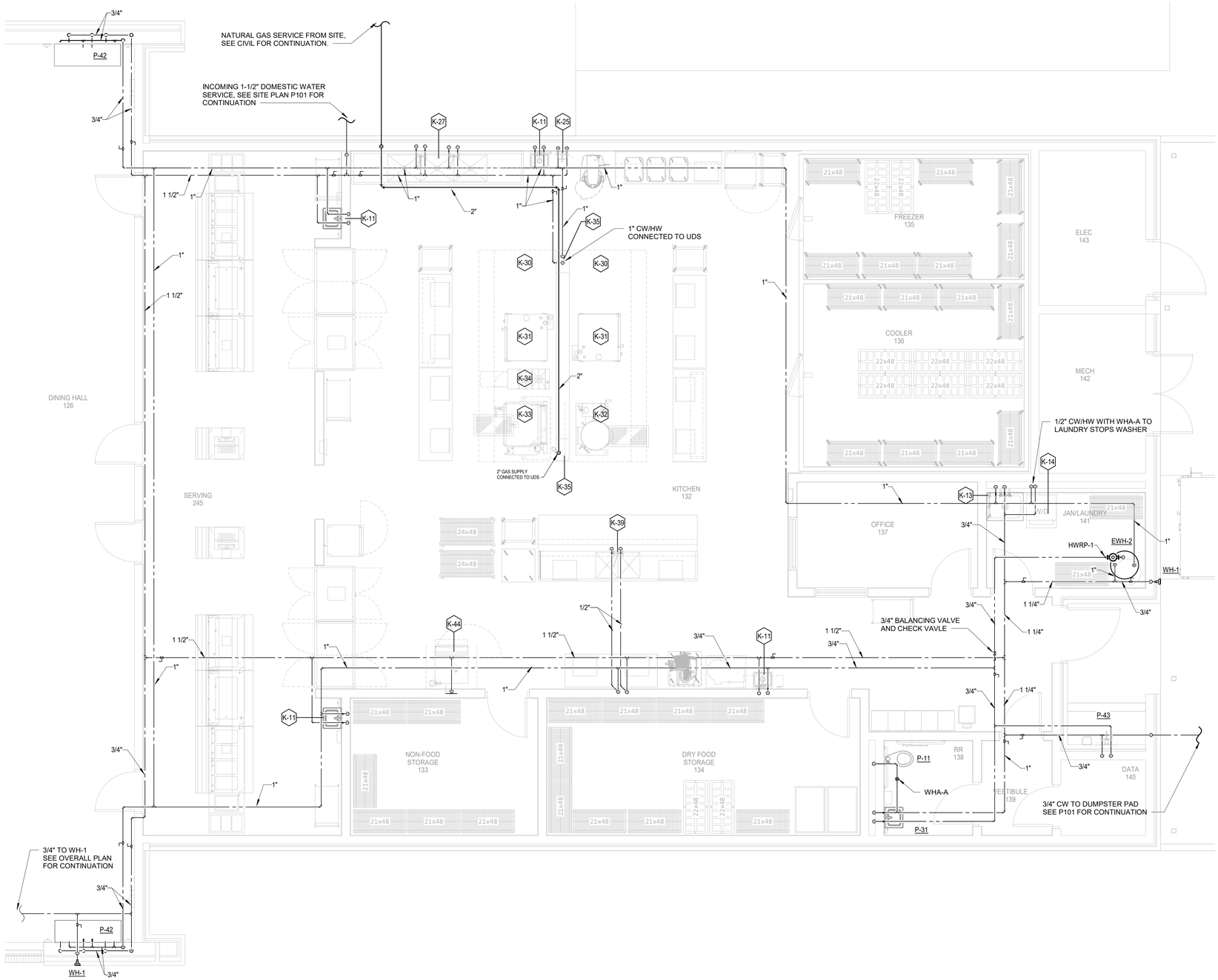

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1 **ENLARGED - DOMESTIC WATER PLAN - KITCHEN - AREA B - ALTERNATES #1, #2**

Scale: 1/4" = 1'-0"

1" 5" 6" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

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P301c

ENLARGED DOMESTIC WATER PLAN-KITCHEN - AREA-B - ALTERNATES

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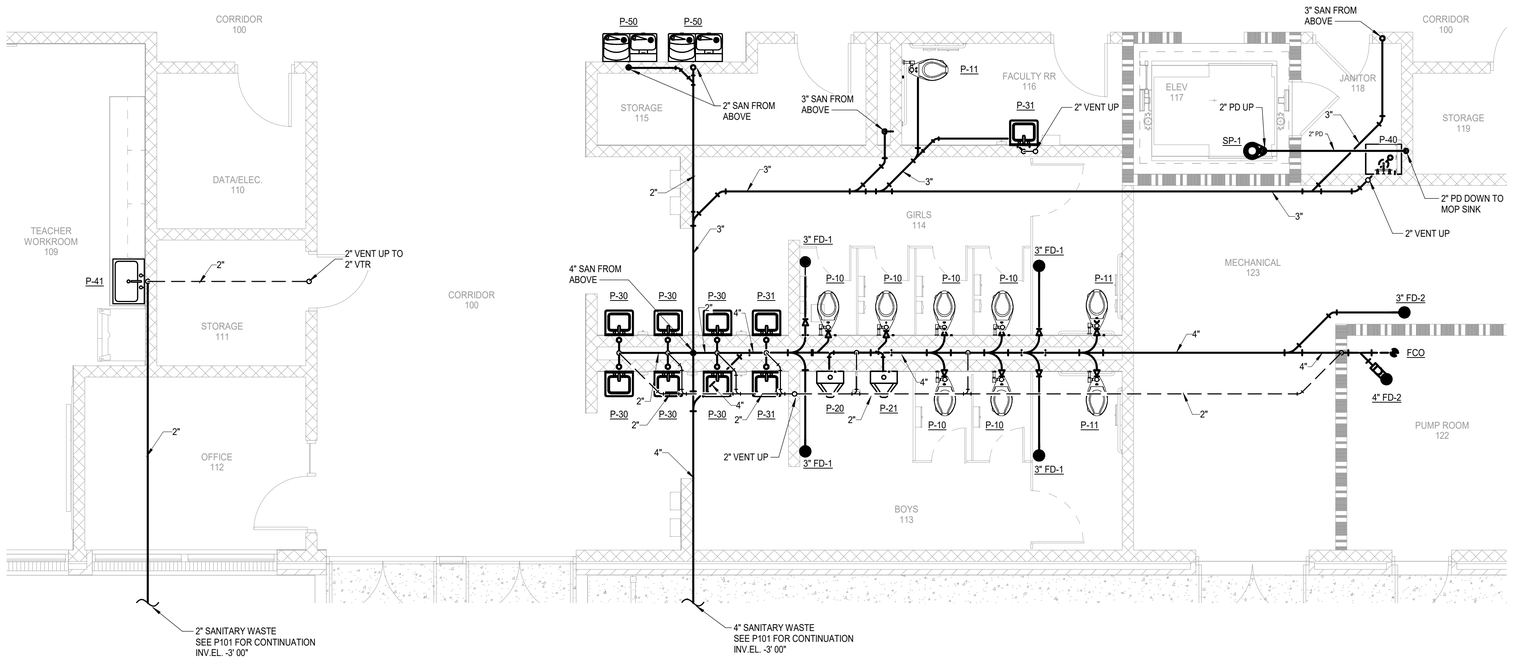
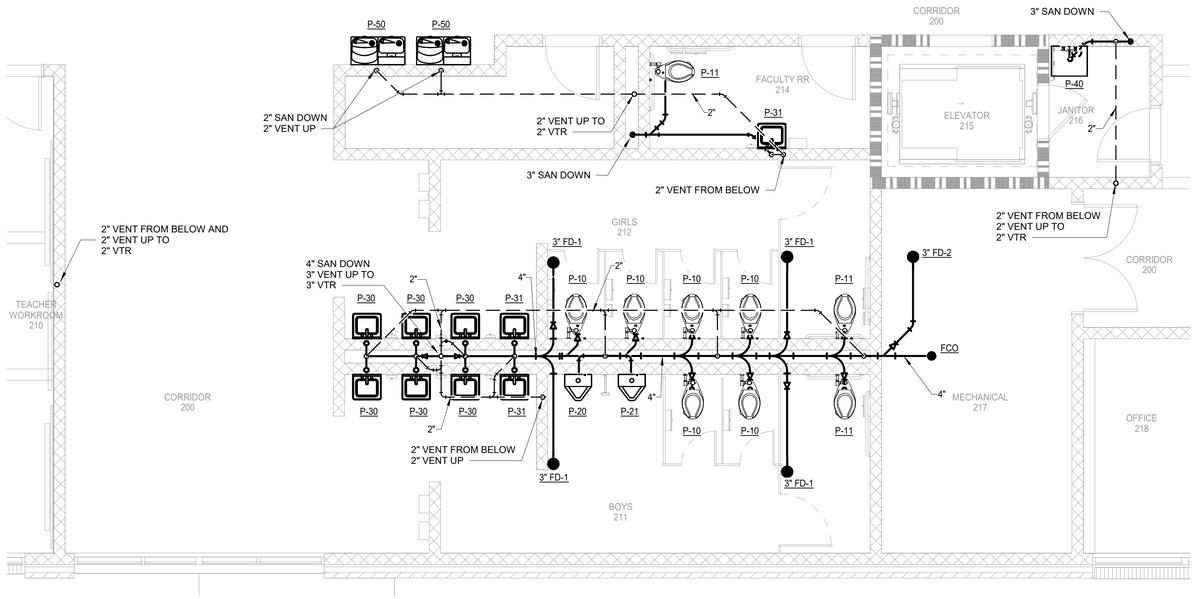


N

1 ENLARGED - 1ST FLOOR DWV PLAN - AREA A

Scale: 1/4" = 1'-0"



N

2 ENLARGED - 2ND FLOOR DWV PLAN - AREA A

Scale: 1/4" = 1'-0"

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P311a

ENLARGED DWV PLANS - AREA A

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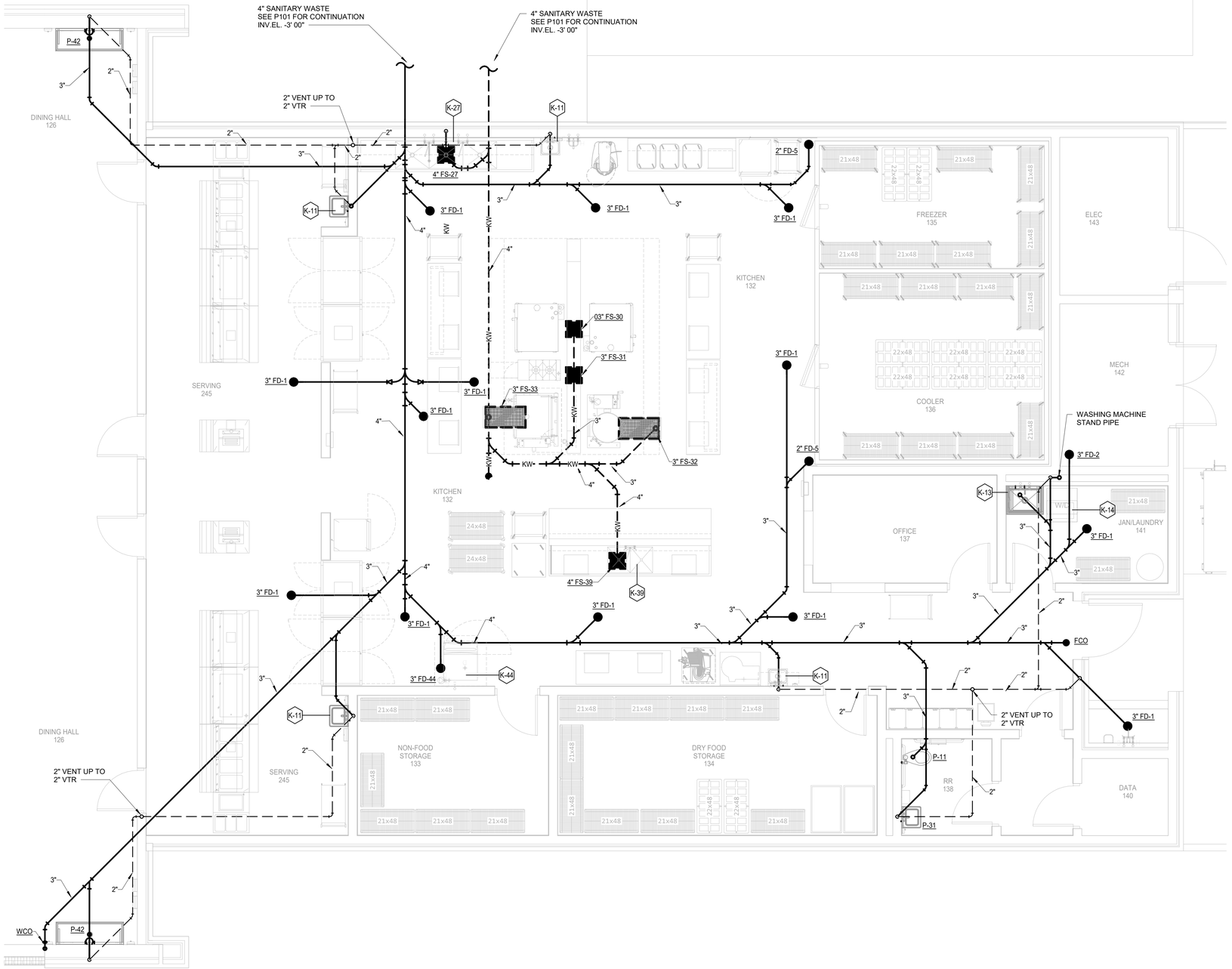

N

1 ENLARGED - DWV PLAN - KITCHEN - AREA B - ALTERNATES #1, #2

Scale: 1/4" = 1'-0"

PLUMBING GENERAL PLAN NOTES:

1. SEE SHEET P501 FOR LEGEND, NOTES, SPECIFICATIONS, AND ABBREVIATIONS.

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P311c

ENLARGED DWV PLAN-KITCHEN - AREA-B - ALTERNATES

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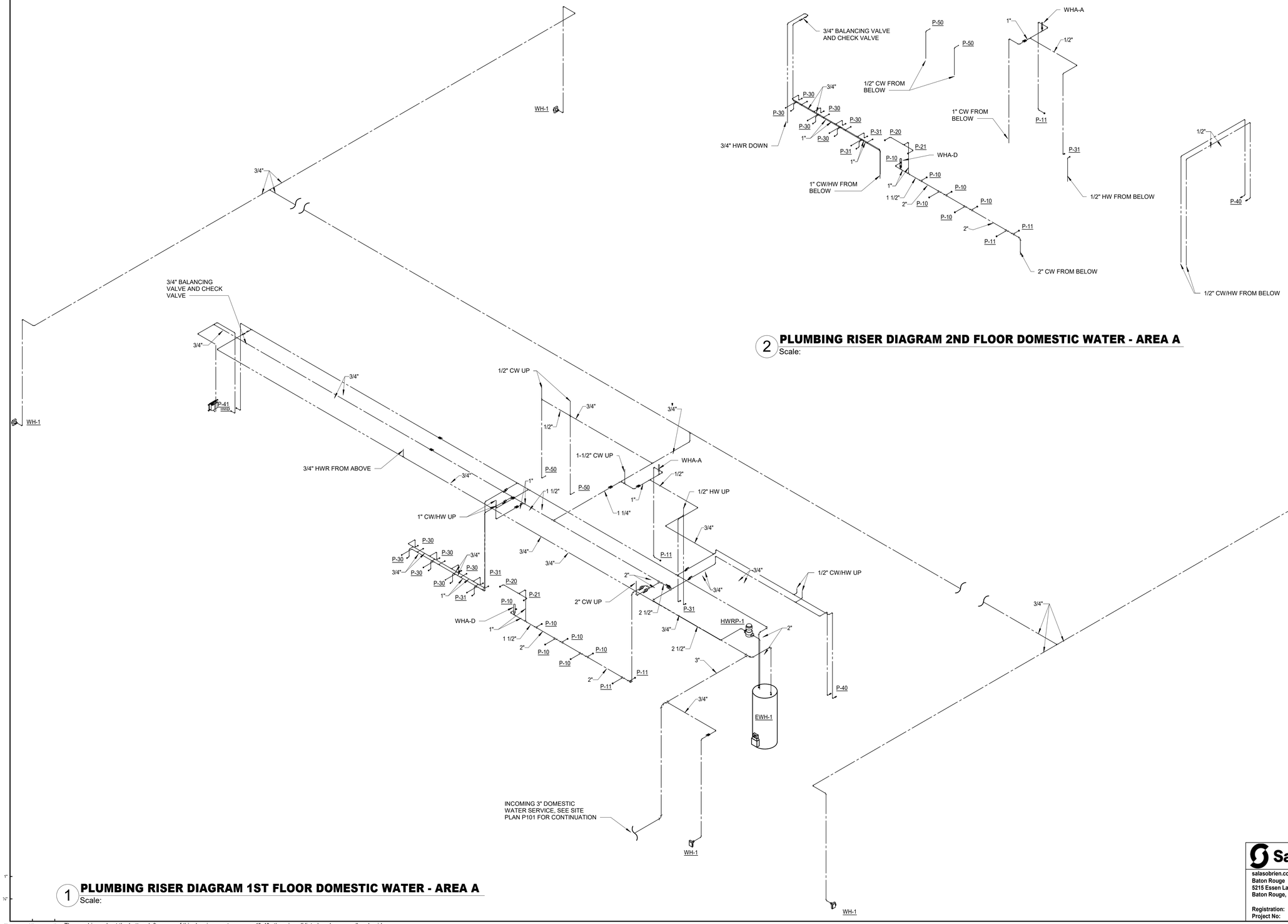

1 PLUMBING RISER DIAGRAM 1ST FLOOR DOMESTIC WATER - AREA A
Scale:

2 PLUMBING RISER DIAGRAM 2ND FLOOR DOMESTIC WATER - AREA A
Scale:

1" ½" 0" ½" 1"
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P401a

1ST & 2ND FLOOR DOMESTIC WATER RISER DIAGRAM - AREA A

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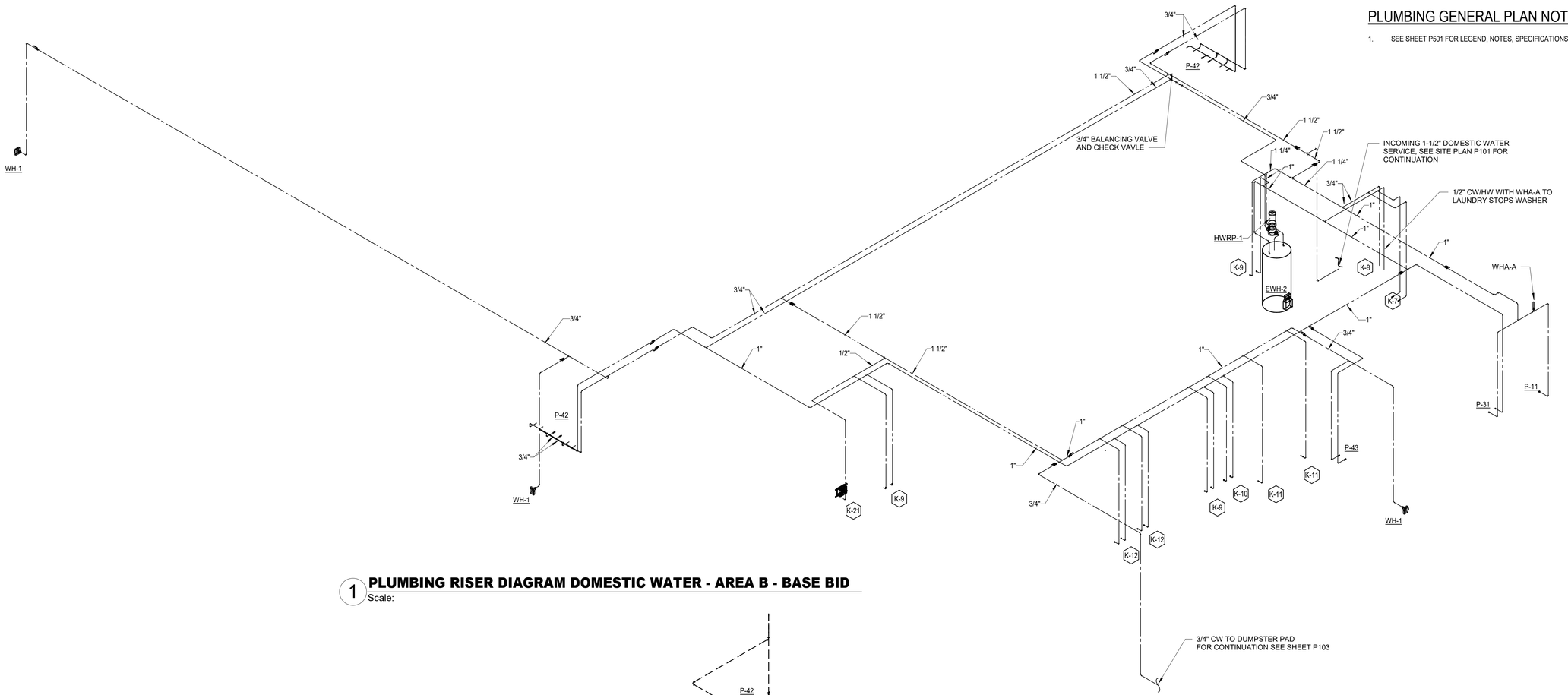
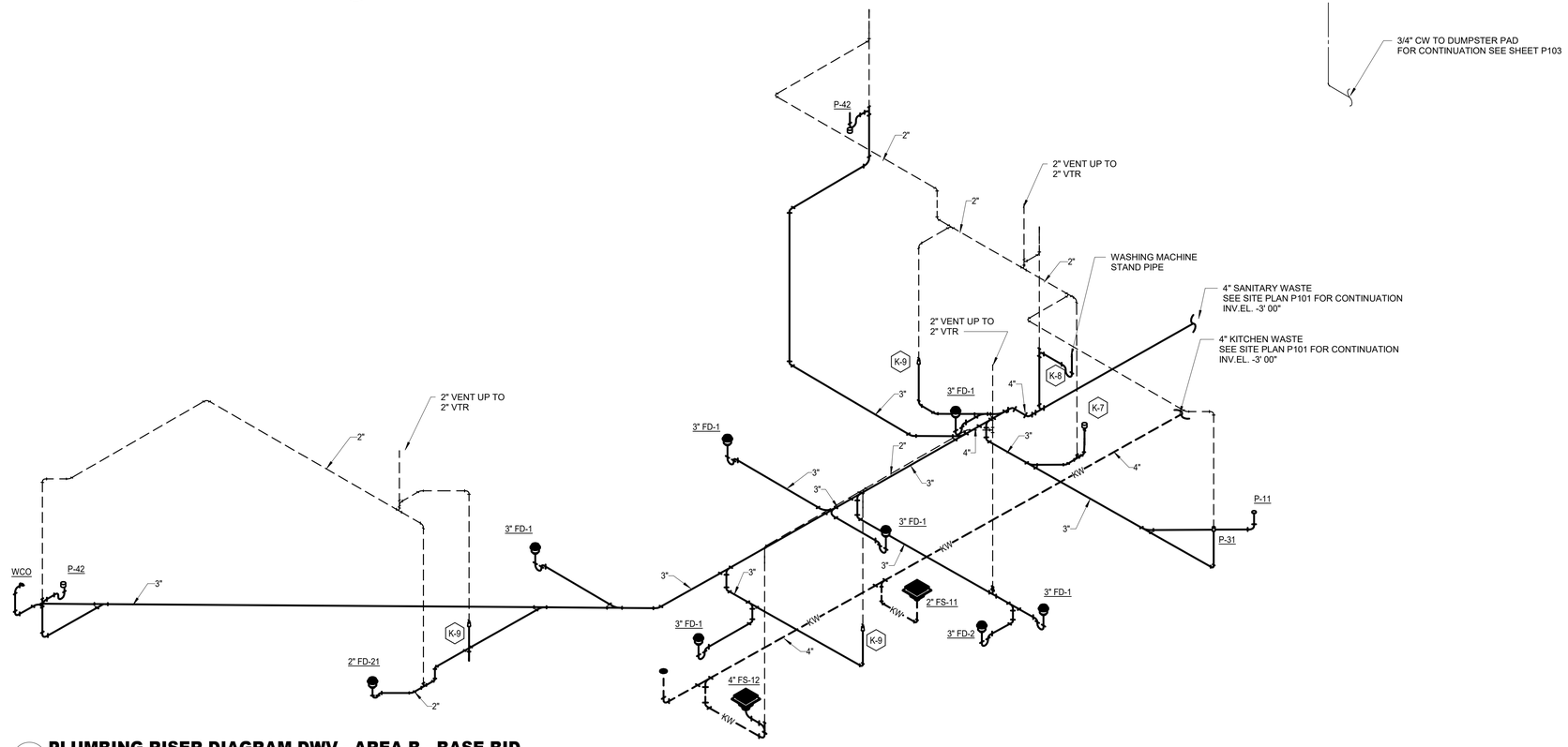


1 **PLUMBING RISER DIAGRAM DOMESTIC WATER - AREA B - BASE BID**
Scale:



2 **PLUMBING RISER DIAGRAM DWV - AREA B - BASE BID**
Scale:

1" 3/4" 1/2" 0" — The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

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P401b

DOMESTIC WATER AND DWV RISER DIAGRAM - AREA-B - BASE BID

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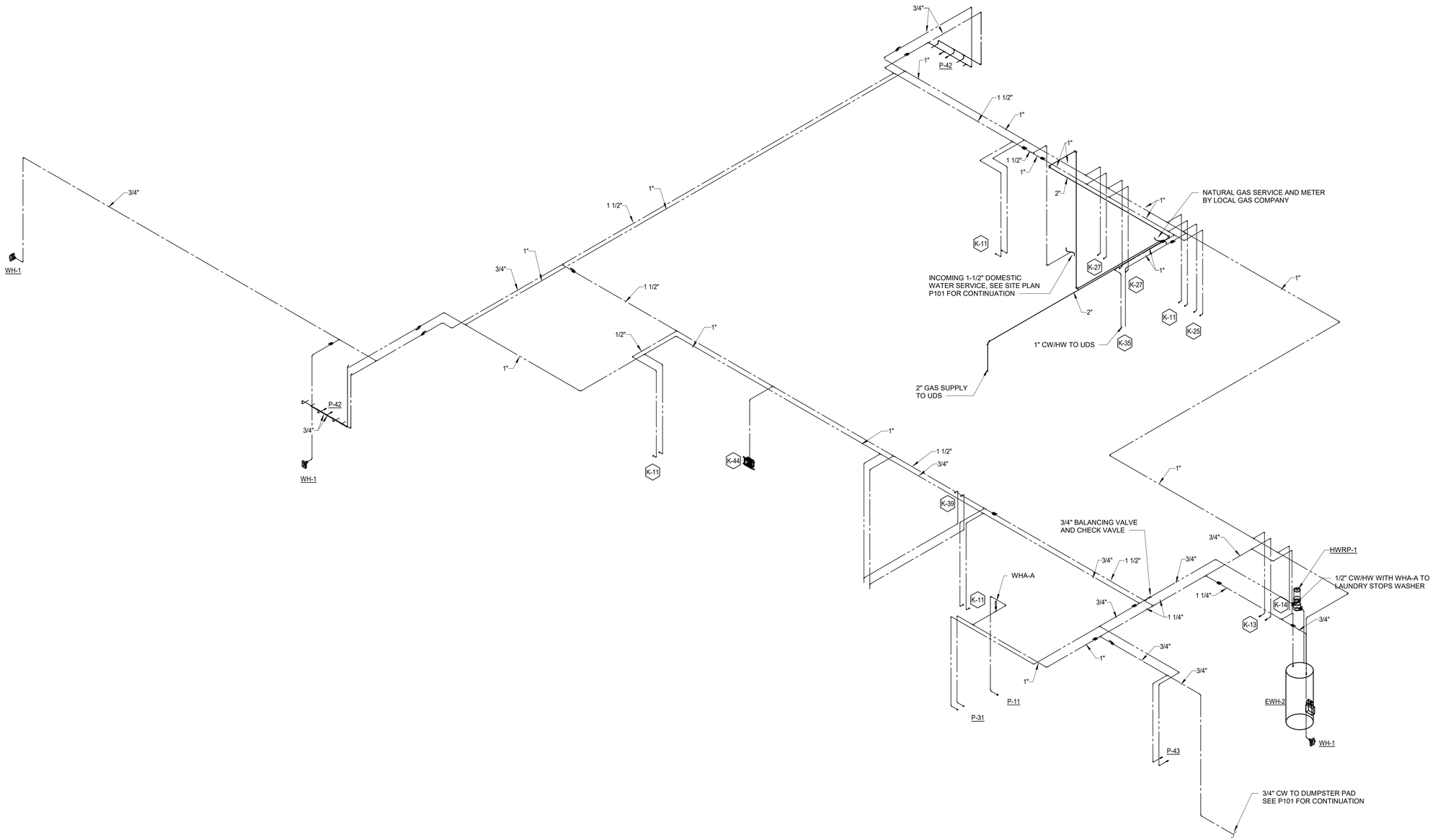
PLUMBING GENERAL PLAN NOTES:

1. SEE SHEET P501 FOR LEGEND, NOTES, SPECIFICATIONS, AND ABBREVIATIONS.



1 PLUMBING RISER DIAGRAM DOMESTIC WATER - AREA B - ALTERNATES #1, #2

Scale:

0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

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DOMESTIC WATER RISER DIAGRAM - AREA B - ALTERNATES

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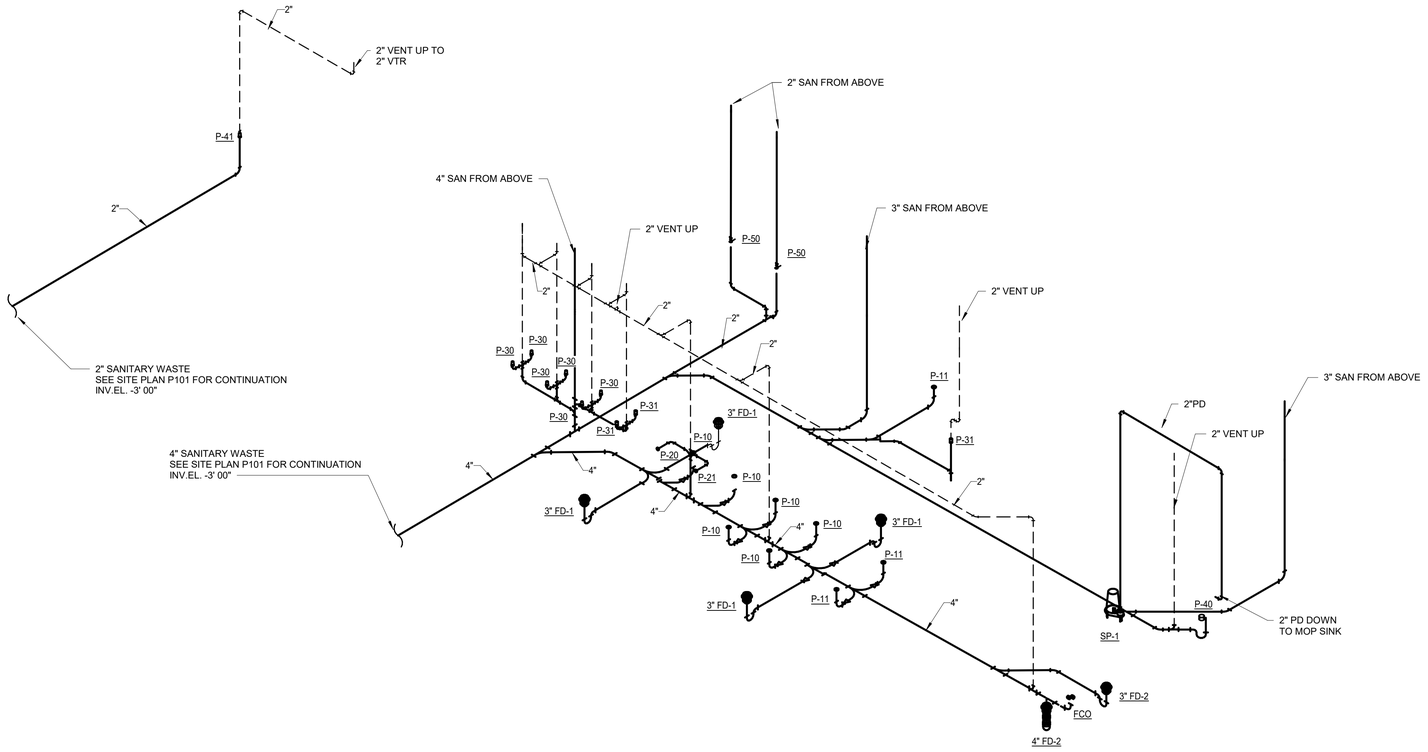
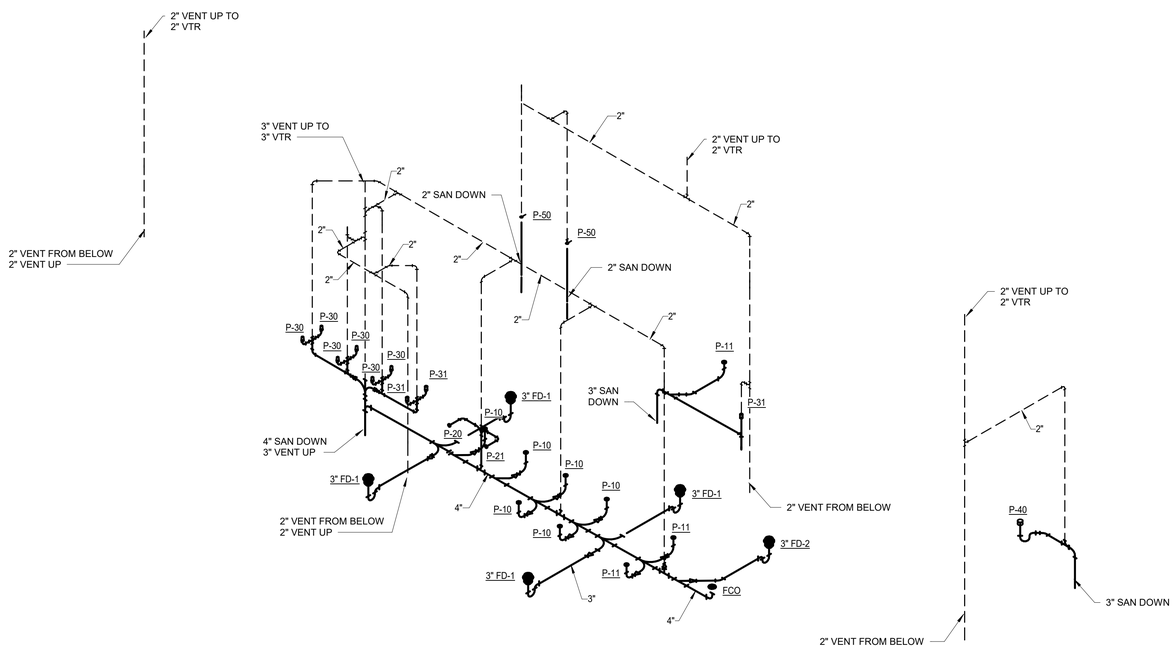


1 PLUMBING RISER DIAGRAM DWV 1ST FLOOR - AREA A

Scale:



2 PLUMBING RISER DIAGRAM DWV 2ND FLOOR - AREA A

Scale:

1" 1/2" 0"

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QUALITY CONTROL	Checker

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P411a

1ST & 2ND FLOOR DWV RISER DIAGRAM - AREA A

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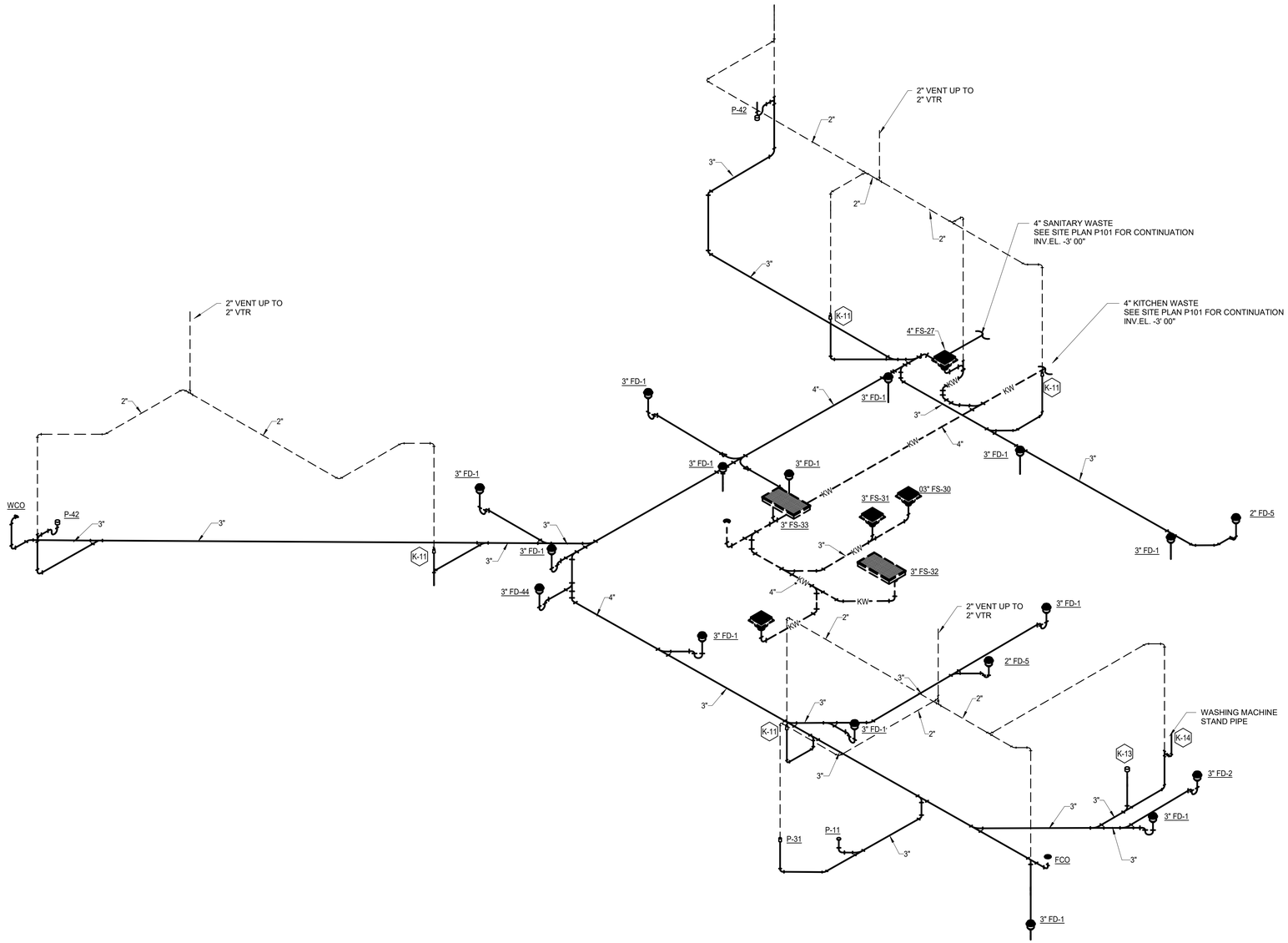
1. SEE SHEET P501 FOR LEGEND, NOTES, SPECIFICATIONS, AND ABBREVIATIONS.



1 PLUMBING RISER DIAGRAM DWV - AREA B - ALTERNATES #1, #2

Scale:

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PONCHATOULA HIGH SCHOOL 18 CLASSROOM ADD. & CAFETERIA

19452 LA-22, PONCHATOULA, LA 70454

STATE OF LOUISIANA
DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
10/08/2026

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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BID DOCUMENTS

P411c

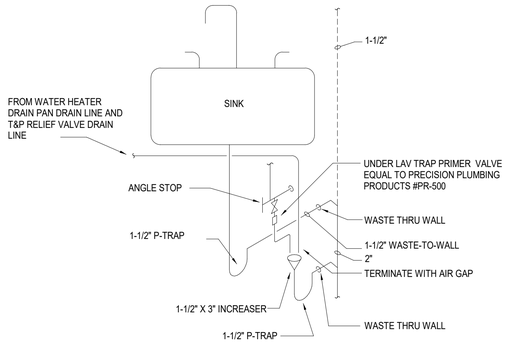
DWV RISER DIAGRAM - AREA B - ALTERNATES

Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 0008168
Project No: 2550-01207

H/S

10/9/2026 11:13:06 AM
Autodesk Docs://PHS 18 Classroom Add & Cafeteria/2550-01207_PHS - 18 CR ADDITION_MEP_R25.rvt

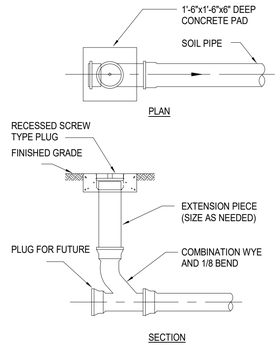
0" 1/2" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.



OPEN SIGHT DRAIN AT SINK

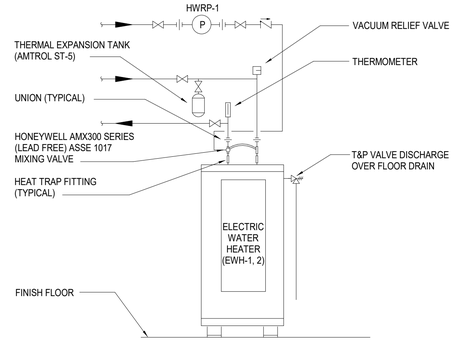
SCALE: NONE

NOTE:
OFFSET OPEN SITE DRAIN TO PROVIDE ADEQUATE CLEARANCE FOR KNEE SPACE AT ACCESSIBLE FIXTURES.



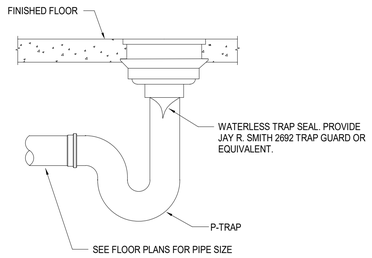
CLEANOUT TO GRADE

SCALE: NONE



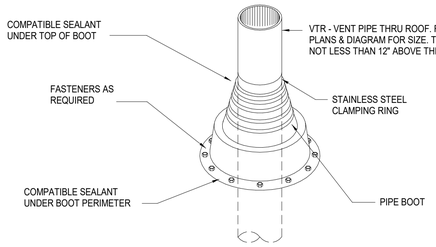
ELECTRIC WATER HEATER

SCALE: NONE



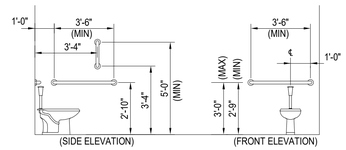
FLOOR DRAIN W/ TRAP GUARD

SCALE: NONE



VENT THRU ROOF DETAIL

SCALE: NONE

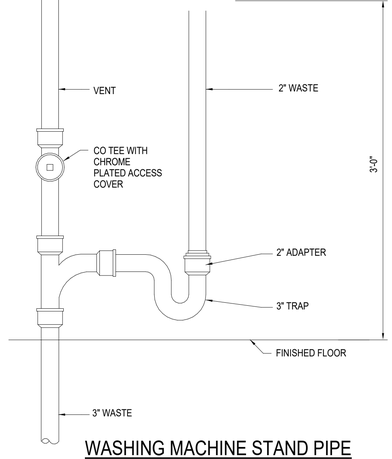


GRAB BARS AT ACCESSIBLE WATER CLOSETS

SCALE: NONE

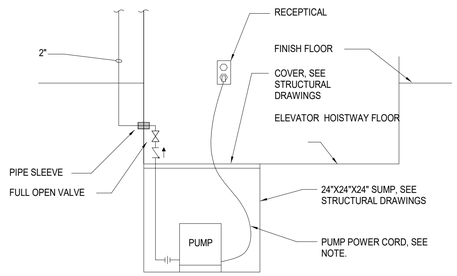
NOTES:
1. ORIENTATION OF GRAB BARS MAY BE MIRRORED ON CENTERLINE OF WATER CLOSET TO REFLECT LAYOUT. REFERENCE ARCHITECTURAL PLANS FOR CORRECT ORIENTATION.
2. LOCATE FLUSH CONTROL ON OPEN SIDE OF STALL.
3. COORDINATE ELEVATION OF REAR GRAB BAR WITH TANK OR FLUSH VALVE ACCESS.





WASHING MACHINE STAND PIPE

SCALE: NONE



ELEVATOR SUMP PUMP

SCALE: NONE

NOTE:
CORD SHALL BE HARD USAGE OIL-RESISTANT TYPE, LENGTH NOT TO EXCEED 6'-0" AND LOCATED TO BE PROTECTED FROM PHYSICAL DAMAGE, PER NEC REQUIREMENTS.

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BID DOCUMENTS

P501

DETAILS

Salas O'Brien
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Baton Rouge, LA 70809
Registration: 0008168
Project No: 2550-01207

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1" 1/2" 0" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

PLUMBING SPECIFICATIONS:

GENERAL:

1. THE WORK SHALL INCLUDE PROVIDING AND INSTALLING ALL MATERIALS INDICATED TO PROVIDE COMPLETE AND OPERABLE SYSTEMS. WORK SHALL TERMINATE AT A POINT FIVE FEET FROM THE FACE OF THE BUILDING, UNLESS NOTED OTHERWISE AND SHALL INCLUDE CONNECTIONS TO SITE UTILITIES.

2. PROVIDE ACCESS PANELS FOR ALL EQUIPMENT AND MATERIALS REQUIRING MAINTENANCE OR INSPECTION INCLUDING (BUT NOT LIMITED TO) VALVES, MOTORS, WATER HAMMER ARRESTORS,

3. PROVIDE CUTTING AND PATCHING OF EXISTING CONSTRUCTION AS REQUIRED TO INSTALL THE WORK.

4. SUBMITTALS: THE CONTRACTOR SHALL SUBMIT ALL PRODUCT DATA FOR REVIEW AND ACCEPTANCE BY THE ENGINEER. THE CONTRACTOR SHALL BE PROCEEDING AT THEIR OWN RISK IF THE CONTRACTOR CHOOSES TO PROCEED WITH THE WORK PRIOR TO ACCEPTANCE OF THE MATERIALS AND EQUIPMENT BY THE ENGINEER.

5. THIRD PARTY CERTIFICATION: ALL PLUMBING PRODUCTS AND MATERIALS SHALL BE LISTED BY A THIRD-PARTY CERTIFICATION AGENCY AS COMPLYING WITH THE REFERENCED STANDARDS INDICATED IN THE IPC. PRODUCTS AND MATERIALS SHALL BE IDENTIFIED IN ACCORDANCE WITH THE IPC.

PLUMBING PIPING SYSTEMS:

1. REFERENCE THE PIPING MATERIAL SCHEDULE FOR PIPING MATERIALS.

2. PROVIDE INSULATION FOR PIPING AND EQUIPMENT AS FOLLOWS:
   A. DOMESTIC COLD WATER
      - 1" FIBERGLASS WITH ASJ
   B. DOMESTIC HOT WATER
      - PIPE SIZE 1" OR LESS: 1" FIBERGLASS WITH ASJ
      - PIPE SIZE 1-1/4" AND 1-1/2": 1-1/2" FIBERGLASS WITH ASJ
      - PIPE SIZE 2" AND LARGER: 2" FIBERGLASS WITH ASJ
   C. WASTE PIPING FROM ELECTRIC WATER COOLERS OR CONDENSATE DRAINS (FIRST 10-FEET OF DRAINAGE) - 1" FIBERGLASS WITH ASJ

3. HORIZONTAL SANITARY DRAINAGE PIPING SHALL BE INSTALLED AT THE FOLLOWING SLOPES:
   A. FOR PIPE SIZES 2-1/2" OR LESS, SLOPE AT MINIMUM 1/4" PER FOOT.
   B. FOR PIPE SIZES 3"-6", SLOPE AT MINIMUM 1/8" PER FOOT.

4. DOMESTIC WATER SYSTEM VALVES: 2-PIECE, FULL-PORT BRASS BALL VALVES, LEAD FREE, NIBCO S-FP-600A-LF OR NON-RISING STEM, FULL-PORT BRASS, LEAD FREE GATE VALVES, NIBCO T-113-LF OR S-113-LF.

5. DOMESTIC HOT WATER RETURN SYSTEM BALANCING VALVES: BRASS GLOBE VALVES WITH TEST PORTS, NIBCO S-1810-LF.

6. FUEL GAS SYSTEM VALVES: ASME B16.33

7. EXTERIOR FUEL GAS PIPING SHALL BE FIELD PAINTED WITH EPOXY PAINT. COLOR AS SELECTED BY THE ARCHITECT OR LOCAL AUTHORITY.

8. HANGERS: HANGERS, BRACES AND RESTRAINTS SHALL ADEQUATELY SUPPORT THE SYSTEMS HORIZONTALLY AND VERTICALLY AND SHALL ALLOW FOR MOVEMENT WITHOUT TRANSMITTING STRESS OR VIBRATION TO THE STRUCTURE. HANGERS SHALL BE EQUAL TO GRINNELL PRODUCTS. HANGERS ON INSULATED PIPING SHALL BE PROVIDED WITH AND SHALL BE SIZED TO ACCOMMODATE INSULATION INSERTS AND HANGER SHIELDS.

9. HORIZONTAL SOIL, WASTE AND VENT PIPING HUNG FROM BUILDING CONSTRUCTION SHALL BE SUPPORTED AT NOT OVER 5 FEET NEXT TO FITTINGS. PROVIDE ADDITIONAL SUPPORTS AT JOINTS, CHANGES IN DIRECTION AND ELSEWHERE AS REQUIRED TO MAINTAIN PROPER ALIGNMENT.

10. PROVIDE ACRYLIC SNAP-ON LABELS WITH DIRECTIONAL ARROWS FOR ALL PLUMBING PIPING SYSTEMS. LABELS SHALL BE SPACED A MAXIMUM OF 25'-0" APART AND WITHIN 2'-0" OF WALL PENETRATIONS.

11. PENETRATIONS: ALL PIPING PENETRATIONS OF RATED ASSEMBLIES SHALL BE SEALED IN ACCORDANCE WITH UL LISTED THROUGH PENETRATION ASSEMBLIES.

12. THE LAYOUT OF PIPING IS CONSIDERED SCHEMATIC IN NATURE. THE CONTRACTOR SHALL PROVIDE NECESSARY OFFSETS AND FITTINGS AS REQUIRED AND SHALL PROVIDE EXPANSION FITTINGS AS NECESSARY TO AVOID EXCESSIVE STRESS ON THE PIPING SYSTEMS.

PLUMBING SPECIALTIES:

1. CLEANOUTS SHALL HAVE TOPS DESIGNED FOR SPECIFIC FLOOR FINISHES IN WHICH THEY ARE INSTALLED SUCH AS CARPET, TILE, ETC., UNLESS NOTED OTHERWISE.

2. CLEANOUTS SHALL BE PROVIDED WITH TAPERED BRONZE PLUGS.

3. WALL CLEANOUTS SHALL BE PROVIDED WITH ROUND STAINLESS STEEL ACCESS COVERS.

4. WATER HAMMER ARRESTERS SHALL BE EQUAL TO JRSMITH HYDRTROL AND SHALL BE PDI APPROVED.

5. BACKFLOW PREVENTERS SHALL BE AS INDICATED AND AS ACCEPTED BY THE AUTHORITY HAVING JURISDICTION:

   CARBONATED BEVERAGE SYSTEM BACKFLOW PREVENTER:
   WATTS SD-3 (ASSE 1022), LEAD FREE

   COFFEE MAKER/BEVERAGE DISPENSER/ICE MACHINE BACKFLOW PREVENTER:
   WATTS LF7C (ASSE 1024), LEAD FREE

PLUMBING FIXTURES:

1. FIXTURES & TRIM: FIXTURES SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS. ASSEMBLIES SHALL BE COMPLETE AND SHALL INCLUDE FIXTURES AND ALL REQUIRED APPURTENANCES, TRIM AND FITTINGS TO PROVIDE A COMPLETE INSTALLATION. ALL FIXTURES SHALL BE SECURELY ANCHORED AND FASTENED IN PLACE AND SHALL BE PLUMB AND LEVEL AND AT HEIGHTS REQUIRED BY REFERENCED PLUMBING CODE, ACCESSIBILITY CODE AND THE AMERICANS WITH DISABILITIES ACCESSIBILITY GUIDELINES.

2. PROVIDE SILICON CAULK (DOW-CORNING 784 INTERIOR SEALANT OR EQUAL) AT THE JOINT BETWEEN PLUMBING FIXTURES AND ADJACENT FLOORS, WALLS, ETC.

3. ACCESSIBLE WATER CLOSETS SHALL BE PURCHASED AND/OR INSTALLED WITH THE OPERATING LEVER ON THE OPEN SIDE OF THE STALL OR ROOM.

4. MOP BASINS SHALL BE PROVIDED WITH CHECK VALVES ON THE CW AND HW SUPPLIES TO THE FIXTURE.

5. REFERENCE THE ARCHITECTURAL DRAWINGS FOR LOCATION OF SHOWER HEAD AND CONTROLS WITHIN THE SHOWER COMPARTMENT.

PLUMBING EQUIPMENT:

1. WATER HEATERS WITHOUT A HOT WATER RECIRCULATION SYSTEM SHALL BE PROVIDED WITH THERMAL TRAPS ON THE INLET AND OUTLET PIPING CONNECTIONS.

2. HOT WATER RECIRCULATION PUMPS SHALL BE PROVIDED WITH AQUASTATS AND 24-HOUR ADJUSTABLE TIMERS.

ADJUSTING AND START-UP:

1. THIS CONTRACTOR SHALL CLEAN ALL FIXTURES, ADJUST ALL VALVES, AND LEAVE THE SYSTEM IN GOOD WORKING ORDER, REMOVE ALL DEBRIS AND RUBBISH CAUSED BY THEIR WORK, AND REPAIR ANY DAMAGE CAUSED BY THEIR WORKERS.

2. ADJUSTMENT: THIS CONTRACTOR SHALL INCLUDE IN THEIR BID A RETURN VISIT TO THE SITE AT A TIME TO BE DETERMINED, TO RE-ADJUST VALVES, AND CHECK FOR LEAKS AFTER THE SYSTEM HAS BEEN IN OPERATION.

PROJECT CLOSE-OUT

1. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER A COMPLETE SET OF PROJECT DOCUMENTS INDICATING ALL CHANGES TO THE WORK NOT INCORPORATED IN THE DOCUMENTS. CHANGES SHALL BE ANNOTATED WITH A CONTRASTING COLOR (RED). THE ANNOTATED SET SHALL ALSO INCLUDE MANUFACTURER'S MODEL NUMBERS OF FIXTURES AND EQUIPMENT WHICH ARE DIFFERENT FROM THE PROJECT DOCUMENT INDICATED MODEL NUMBERS.

2. THE CONTRACTOR SHALL PROVIDE TO THE OWNER A COMPLETE SET OF OPERATION AND MAINTENANCE MATERIALS INDICATING MAINTENANCE SCHEDULES, TROUBLESHOOTING GUIDELINES AND MANUFACTURER'S/SUPPLIERS CONTACT INFORMATION.

3. GUARANTEE: THIS CONTRACTOR SHALL GUARANTEE THE WORK FOR A PERIOD OF ONE YEAR AFTER FINAL PAYMENT, AND SHALL CORRECT WITHOUT COST TO THE OWNER, ANY FAULTY MATERIALS OR WORKMANSHIP WHICH MAY DEVELOP WITHIN THAT TIME, EXCEPT NORMAL WEAR AND TEAR.

PLUMBING PROJECT GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE LOUISIANA PLUMBING CODE - 2021 EDITION AND ALL LOCAL CODES, RULES AND REGULATIONS INCLUDING THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES, OSHA ACTS AND REGULATIONS, AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.

2. ALL MATERIALS SHALL COMPLY WITH THE REQUIREMENTS FOR LEAD-FREE PRODUCTS AS DEFINED BY THE SAFE DRINKING WATER ACT (AMENDED).

3. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, FEES, AND LICENSES, ETC. REQUIRED TO PERFORM THE WORK. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND EQUIPMENT TO PROVIDE COMPLETE AND OPERABLE SYSTEMS. THE WORK SHALL INCLUDE ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION.

4. WORK SHALL CONFORM TO STANDARD INDUSTRY PRACTICES. ROUTING OF ALL PIPING AS SHOWN ON THE DRAWINGS IS DIAGRAMMATIC ONLY, INTENDING TO SHOW GENERAL RUNS AND LOCATIONS OF PIPING, FIXTURES AND SPECIALTIES. IT IS NOT THE INTENT OF THESE DOCUMENTS TO INDICATE ALL OFFSETS AND FITTINGS REQUIRED. GENERALLY, PIPING SHALL BE INSTALLED PARALLEL WITH OR PERPENDICULAR TO WALL CONSTRUCTION. SUPPLY SYSTEMS SHALL BE INSTALLED LEVEL AND PLUMB, GRAVITY SYSTEMS SHALL BE INSTALLED WITH A UNIFORM SLOPE.

5. ALL PIPING SHOWN ON PLANS OR INDICATED BY NOTES SHALL BE CONCEALED ABOVE THE CEILING, LOCATED BELOW THE FINISH FLOOR OR CONCEALED IN WALLS OR CHASES, UNLESS NOTED OTHERWISE.

6. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS BEFORE STARTING THE WORK AND SHALL NOTIFY THE ARCHITECT IF A CONDITION EXISTS WHICH PREVENTS THE CONTRACTOR FROM ACCOMPLISHING THE INTENT OF THE DRAWINGS. FAILURE TO NOTIFY THE ARCHITECT IN A TIMELY MANNER SHALL MEAN THE CONTRACTOR HAS PROCEEDED AT THEIR OWN EXPENSE.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE PLUMBING WORK WITH ALL OTHER TRADES, INCLUDING STRUCTURAL, MECHANICAL, AND ELECTRICAL WORK. THE CONTRACTOR SHALL PROVIDE NECESSARY OFFSETS, TRANSITIONS, PIPE ROUTING, MATERIALS AND LABOR TO ARRANGE EQUIPMENT AND PIPING AS REQUIRED FOR A PROPER AND ACCESSIBLE INSTALLATION WITH MINIMAL CONFLICT. CLOSE COORDINATION WILL BE REQUIRED FOR ALL SERVICES.

8. DO NOT LOCATE PLUMBING PIPING, EQUIPMENT, ETC., OVER ELECTRICAL PANELS.

9. MATERIALS USED SHALL BE NEW AND FIRST RATE IN QUALITY. CARE SHALL BE TAKEN WITH THE HANDLING AND SETTING OF ALL EQUIPMENT AND MATERIALS. ALL WORK SHALL BE FREE FROM DEFECTS.

10. REFERENCE THE ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF WALLS, PARTITIONS, PLUMBING FIXTURES AND FOR PARTITION THICKNESS AND CONSTRUCTION MATERIALS. DRAWINGS SHALL NOT BE SCALED.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SCRAP MATERIALS AND DEBRIS ASSOCIATED WITH THIS WORK FROM THE SITE.

12. PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THE OWNER AND/OR OTHERS.

13. PROVIDE ACCESS PANELS FOR ALL ITEMS REQUIRING ACCESS OR MAINTENANCE INCLUDING SHUT-OFF VALVES, WATER HAMMER ARRESTORS, BALANCING VALVES, ETC.

14. ALL PIPING AND MATERIALS USED IN A PLENUM SPACE SHALL BE PLENUM RATED. THE CONTRACTOR SHALL FIELD VERIFY EXTENT OF THE AREAS THAT ARE PLENUMS.

15. PIPE SIZES INDICATED ARE MINIMUM. IF A PIPING MATERIAL IS NOT MANUFACTURED OR OTHERWISE AVAILABLE IN THE SIZE INDICATED THEN THE NEXT LARGER PIPE SIZE SHALL BE PROVIDED AND INSTALLED.

PLUMBING SHEET LIST

	SHEET INDEX
03_Plumbing	
P101b	ENLARGED SITE PLAN - BASE BID
P101c	ENLARGED SITE PLAN - ALTERNATES
P201a	1ST FLOOR DOMESTIC WATER PLAN - AREA A
P201b	1ST FLOOR DOMESTIC WATER PLAN - AREA B - BASE BID
P201c	1ST FLOOR DOMESTIC WATER PLAN - AREA B - ALTERNATES
P202a	2ND FLOOR DOMESTIC WATER PLAN - AREA A
P211a	1ST FLOOR DWV PLAN - AREA A
P211b	1ST FLOOR DWV PLAN - AREA B - BASE BID
P211c	1ST FLOOR DWV PLAN - AREA B - ALTERNATES
P212a	2ND FLOOR DWV PLAN - AREA A
P301a	ENLARGED DOMESTIC WATER PLANS - AREA A
P301b	ENLARGED DOMESTIC WATER AND DWV PLANS-KITCHEN - AREA B - BASE BID
P301c	ENLARGED DOMESTIC WATER PLAN-KITCHEN - AREA-B - ALTERNATES
P311a	ENLARGED DWV PLANS - AREA A
P311c	ENLARGED DWV PLAN-KITCHEN - AREA-B - ALTERNATES
P401a	1ST & 2ND FLOOR DOMESTIC WATER RISER DIAGRAM - AREA A
P401b	DOMESTIC WATER AND DWV RISER DIAGRAM - AREA-B - BASE BID
P401c	DOMESTIC WATER RISER DIAGRAM - AREA B - ALTERNATES
P411a	1ST & 2ND FLOOR DWV RISER DIAGRAM - AREA A
P411c	DWV RISER DIAGRAM - AREA B - ALTERNATES
P501	DETAILS
P601	PLUMBING LEGENDS AND NOTES
P602	SCHEDULES
P603	SCHEDULES

PLUMBING LEGEND

NEW WORK

- COLD WATER
- DOMESTIC HOT WATER (110 DEG. F)
- DOMESTIC HOT WATER RETURN (110 DEG. F)
- 140 — DOMESTIC HOT WATER (140 DEG. F)
- 140 — DOMESTIC HOT WATER RETURN (140 DEG. F)
- SANITARY
- VENT
- C — NATURAL GAS
- LPG — LIQUID PROPANE GAS
- KW — KITCHEN WASTE
- D — DRAIN
- PD — PUMP DISCHARGE
- PIPE TURNING DOWN
- PIPE TURNING UP
- TEE TURNING DOWN
- TEE TURNING UP
- PIPE CAP
- SHUT-OFF VALVE
- CHECK VALVE
- BALANCING VALVE
- GAS COCK
- PRESSURE REDUCING/REGULATING VALVE
- STRAINER
- SOLENOID VALVE
- TS — OS&Y VALVE
- OS&Y VALVE WITH TAMPER SWITCH
- FD-1 — FLOOR DRAIN (SUFFIX INDICATES DRAIN TYPE)
- HD — HUB DRAIN
- FS-1 — FLOOR SINK (SUFFIX INDICATES DRAIN TYPE)
- TRENCH DRAIN
- RD — ROOF DRAIN (SUFFIX INDICATES DRAIN TYPE)
- FLOOR CLEANOUT
- WALL OR END-OF-LINE CLEANOUT
- PRESSURE GAGE
- TEMPERATURE GAGE
- WATER HAMMER ARRESTOR (SUFFIX INDICATES PDI SIZE)
- UNION
- BFP — BACKFLOW PREVENTER (REDUCED PRESSURE ZONE)
- BACKFLOW PREVENTER (DOUBLE CHECK)
- METER (GAS OR WATER)
- PUMP
- WH — WALL HYDRANT (SUFFIX INDICATES HYDRANT TYPE)
- HB — HOSE BIBB (SUFFIX INDICATES HOSE BIBB TYPE)
- TRAP PRIMER
- DIRECTION OF FLOW
- A — PIPE ANCHOR
- NEW-TO-EXISTING CONNECTION
- LIMIT OF DEMOLITION
- # — NEW WORK NOTES
- # — DEMOLITION NOTES
- # — REVISION NOTES

ABBREVIATIONS

@	AT
°	DEGREES
?	DELTA
Ø	DIAMETER
Ø	PHASE (ELECTRICAL)
#	POUND, NUMBER
ABV	ABOVE
AFF	ABOVE FINISH FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
ASJ	ALL SERVICE JACKET
BEL	BELOW
BET	BETWEEN
BFF	BELOW FINISH FLOOR
BOT	BOTTOM
BTUH	BRITISH THERMAL UNIT/HOUR
BV	BALANCING VALVE
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
℄	CENTERLINE
CO	CLEANOUT
CONC	CONCRETE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CV	CHECK VALVE
CW	COLD WATER
D	DEEP
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DP	DRY-PIPE
DET	DETAIL
DR	DRAIN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EQ	EQUAL
EQPT	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EX, (E)	EXISTING
F	FARIENHEIT, FIRE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FIN	FINISH
FFE	FINISHED FLOOR ELEVATION
FL	FLOOR
FR	FROM
FS	FLOOR SINK, FLOW SWITCH
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
FT	FOOT
GAL	GALLON
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GPM	GALLONS PER MINUTE
H	HIGH
HB	HOSE BIBB
HCP	HANDICAP
HW	HOT WATER
HWR	HOT WATER RETURN
IE	INVERT ELEVATION
INV	INVERT
IBC	INTERNATIONAL BUILDING CODE
IPC	INTERNATIONAL PLUMBING CODE
IW	INDIRECT WASTE
KW	KITCHEN WASTE
LAV	LAVATORY
LPG	LIQUID PROPANE GAS
MA	MASTER ALARM
MBH	1000 BTUH
MC	MECHANICAL CONTRACTOR
MH	MANHOLE
MTD	MOUNTED
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
N2O	NITROUS OXIDE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OS&Y	OUTSIDE SCREW AND YOKE
P, PLBG	PLUMBING
PA	PREACTION
PC	PLUMBING CONTRACTOR
PD	PUMPED DISCHARGE
PDI	PLUMBING AND DRAINAGE INSTITUTE
PIV	POST INDICATOR VALVE
PRV	PRESSURE REDUCING (REGULATING) VALVE
PVC	POLYVINYL CHLORIDE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SHOCK ARRESTOR
SAN	SANITARY
SCHED	SCHEDULE
SF	SQUARE FOOT
SHT	SHEET
SRWC	SECONDARY RAINWATER COLLECTOR
SS	SERVICE SINK, STAINLESS STEEL
SV	SHUTOFF VALVE
T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
TD	TRENCH DRAIN
TLT	TOILET
TW	TEMPERED WATER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
V, VAC	VACUUM
VB	VACUUM BREAKER
VLV	VALVE
VTR	VENT THRU ROOF
VUSBC	VIRGINIA UNIFORM STATEWIDE BUILDING CODE
W	WASTE, WIDE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT, WATER HEATER
WST	WASTE
XH	EXTRA HEAVY
ZVB	ZONE VALVE BOX

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PONCHATOULA HIGH SCHOOL 18
CLASSROOM ADD. & CAFETERIA
19452 LA-22, PONCHATOULA, LA 70454

DAVID BONAVENTURE
License No. 31064
PROFESSIONAL ENGINEER
10/08/2026

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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BID DOCUMENTS

P601

PLUMBING LEGENDS AND NOTES

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1" 3" 6" 0" 3" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

GAS SYSTEM DESIGN PARAMETERS - ALTERNATE

APPLIANCE	DEMAND (CFH)	PRESSURE	REMARKS
KITCHEN EQUIPMENT (TOTAL)	1031	7-14" wc	
-	X		
TOTAL	1031		

NOTES:

PIPING DESIGN IS BASED ON:	INTERNATIONAL FUEL GAS CODE - 2021 EDITION
PIPE SIZING IS BASED ON:	TABLE 402.4(3)
GAS:	NATURAL
INLET PRESSURE:	LESS THAN 2.0 PSI
PRESSURE DROP:	3.0 in. w.c.
SPECIFIC GRAVITY:	0.60
LENGTH OF LONGEST RUN:	90-FEET

PLUMBING PIPING MATERIALS

SYSTEM	MATERIAL	STANDARD	REMARKS
DOMESTIC WATER, BELOW GROUND, 3" AND SMALLER	TYPE K COPPER	ASTM B88	NOTES 1 & 2
DOMESTIC WATER, ABOVE GROUND	TYPE L COPPER, INSULATED	ASTM B88	NOTE 1
PIPING INSULATION - COLD WATER	1" FIBERGLASS, ASJ		
PIPING INSULATION - HOT WATER - LESS THAN 1-1/2" PIPE SIZE	1" FIBERGLASS, ASJ		
SANITARY, WASTE AND VENT, ABOVE GROUND	PVC - SOLID CORE	ASTM D2665	NOTES 3 & 4
SANITARY WASTE & VENT, BELOW GROUND & IN WALL	PVC - SOLID CORE	ASTM D2665	NOTES 3 & 4
FUEL GAS PIPING, 3" AND SMALLER	SCH 40 BLACK STEEL, THREADED	ASTM A53	
FUEL GAS PIPING, LARGER THAN 3"	SCH 40 BLACK STEEL, WELDED	ASTM A53	

GENERAL NOTES:
A. THROUGH PENETRATION ASSEMBLIES AT RATED WALLS SHALL BE COMPATIBLE WITH PIPING MATERIALS.
B. SUPPLY PIPING SHALL CONFORM TO THE REQUIREMENTS OF NSF 61.
C. PIPE AND FITTINGS FOR A GIVEN SYSTEM SHALL BE PROVIDED BY A SINGLE MANUFACTURER.

NOTES:
1. INSTALL PIPING USING WROUGHT OR CAST FITTINGS AND SOLDER JOINTS USING 95-5 TIN-ANTIMONY SOLDER.
2. USE CONTINUOUS LENGTH OF ANNEALED COPPER COIL FOR PIPING LOCATED BELOW SLAB-ON-GRADE CONSTRUCTION.
3. SOLVENT CEMENT AND PRIMER SHALL COMPLY WITH REQUIREMENTS FOR LOW VOC CONTENT.
4. PVC PIPING SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED REQUIREMENTS AND ACCORDING TO ASTM D2665 (ABOVEGROUND INSTALLATIONS) AND ASTM D 2321 (UNDERGROUND INSTALLATIONS).

GREASE INTERCEPTOR SELECTION SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL NO.	FLOW (GPM)	GREASE CAPACITY (GPM)
GI-1	GREASE INTERCEPTOR	SCHIER	GB-1500	100	1379

NOTES:
1. PROVIDE WITH FIELD CUT RISER #FCR1
2. GREASE INTERCEPTOR PROVIDED WITH INTEGRAL FLOW CONTROL

DRAIN SCHEDULE

MARK	LOCATION	SELECTION BASED ON		REMARKS
		MANUFACTURER	MODEL NO.	
FD-1, 5, 21, 44	GENERAL USE	JR SMITH	2005-NB-P075-ROUND TOP	
FD-2	MECHANICAL ROOM	JR SMITH	2110-B-P075	
FS	FLOOR SINK	JR SMITH	3120-C	

FLOW TEST DATA

DATE OF TEST:	6/25/2025	
TIME OF TEST:	11:10:00 AM	
PERFORMED BY:	x	
LOCATION OF STATIC HYDRANT:	Hwy 22 @ Saucier Rd (Ponchatoula, Louisiana)	
LOCATION OF FLOWING HYDRANT:	Hwy 22 @ Saucier Rd (Ponchatoula, Louisiana)	
ELEVATION:	NA	
TEST DATA:	STATIC HYDRANT	FLOWING HYDRANT
READING	64 PSI	0 GPM
	43 PSI	1270 GPM

WATER HEATER SCHEDULE

MARK	LOCATION	STORAGE (GALLONS)	RECOVERY (GPH @ 100° F ΔT)	FUEL	INPUT					SELECTION BASED ON		REMARKS
					KW	VOLTS	PHASE	MBH	PRESSURE	MANUFACTURER	MODEL NO.	
EWH-1	MECHACICAL 123	80	74	ELECTRIC	18	480	3	X	X	AO SMITH	DRE-80	NOTE 1
EWH-2	JAN/LAUNDRY 129	80	74	ELECTRIC	18	480	3	X	X	AO SMITH	DRE-80	NOTE 1
EWH-3	DUMPSTER PAD (OUTDOOR)	-	55° F ΔT @ 2 gpm	ELECTRIC	16	480	3	X	X	EEMAX	XTP016480	NOTE 1, 2

NOTES:
1. PROVIDE ELEMENTS WITH SIMULTANEOUS WIRING. KW RATING INDICATED IS FOR TOTAL INPUT.
2. ALL OUTDOOR TANKLESS ELECTRIC WATER HEATERS SHALL BE PROVIDED WITH A FACTORY-INSTALLED NEMA 4X STAINLESS STEEL ENCLOSURE AND FREEZE PROTECTION.

PLUMBING FIXTURE/SPECIALTIES SCHEDULE

MARK	DESCRIPTION	SERVICE CONNECTIONS				MOUNTING HEIGHT	REMARKS
		WASTE	VENT	CW	HW		
PLUMBING FIXTURES							
P-10	WATER CLOSET - FLOOR MOUNTED, 1.28 GPF FLUSH VALVE, OPEN FRONT SEAT WITH CHECK HINGES	3"	1-1/2"	1"	-	FLOOR	FIXTURE: AMERICAN STANDARD 2857.128 FLUSH VALVE: SLOAN REGAL 111 SFSM-1.28-HW SEAT: OLSONITE 95SSC
P-11	WATER CLOSET - FLOOR MOUNTED, 1.28 GPF FLUSH VALVE, OPEN FRONT SEAT WITH CHECK HINGES, ACCESSIBLE	3"	1-1/2"	1"	-	FLOOR	FIXTURE: AMERICAN STANDARD 2857.128 FLUSH VALVE: SLOAN REGAL 111 SFSM-1.28-HW SEAT: OLSONITE 95SSC
P-30	LAVATORY - WALL HUNG, VITREOUS CHINA, 4" SINGLE LEVER CENTERSET FAUCET WITH GRID DRAIN AND 0.5 GPM AERATOR, CHAIR CARRIER, INSULATED SUPPLIES AND WASTE, ASSE 1070 POINT-OF-USE TEMPERING VALVE SET TO 105°	2"	1-1/2"	1/2"	1/2"	34"	FIXTURE: AMERICAN STANDARD 0355.012 FAUCET: AMERICAN STANDARD 7385.003 INSULATION KIT: TRUEBRO TEMPERING VALVE: APOLLO VALVE MVDR (NOTE 2)
P-31	LAVATORY - WALL HUNG, VITREOUS CHINA, 4" SINGLE LEVER CENTERSET FAUCET WITH GRID DRAIN AND 0.5 GPM AERATOR, CHAIR CARRIER, INSULATED SUPPLIES AND WASTE, ASSE 1070 POINT-OF-USE TEMPERING VALVE SET TO 105°, ACCESSIBLE	2"	1-1/2"	1/2"	1/2"	34"	FIXTURE: AMERICAN STANDARD 0355.012 FAUCET: AMERICAN STANDARD 7385.003 INSULATION KIT: TRUEBRO TEMPERING VALVE: APOLLO VALVE MVDR (NOTE 2)
P-40	MOP BASIN WITH WALL MOUNTED FAUCET. WALL GUARDS ON BOTH WALLS (MSG3636) & TILING FLANGE (FITF-36).	3"	1-1/2"	1/2"	1/2"	FLOOR	FIXTURE: FIAT TSB-300 FAUCET: CHICAGO FAUCETS 445-897SRCXKCP NOTE 3
P-41	SINK - STAINLESS STEEL SINGLE COMPARTMENT SINK WITH 8" SPREAD FAUCET WITH 1.5 GPM AERATOR, GRID DRAIN WITH BASKET STRAINER. BASIN SHALL BE 4-3/8" DEEP, DRAIN SHALL BE LOCATED AT THE CENTER REAR OF THE BASIN. ACCESSIBLE.	2"	1-1/2"	1/2"	1/2"	COUNTER	FIXTURE: ELKAY LRAD312265PD FAUCET: ELKAY LKEC2031LS
P-42	SINK - STAINLESS STEEL, WALL MOUNTED SINGLE COMPARTMENT SINK WITH 8" SPREAD FAUCET WITH 1.5 GPM AERATOR, GRID DRAIN	2"	1-1/2"	1/2"	1/2"	34"	FIXTURE: JUST J6020-J FAUCET: MOEN 8799 W/52610 AERATOR
P-43	SUPPLY SERVICE FAUCET, WALL SUPPORT BRACKET WITH QUARTER TURN WEDGE STYLE HANDLES.	-	-	1/2"	1/2"	34"	ADVANCE TABCO: K-240
PLUMBING SPECIALTIES							
IMB/CMB	ICE MAKER BOX / COFFEE MAKER BOX WITH WATER HAMMER ARRESTOR (METAL WITH WHITE POWDER COAT), LEAD FREE	-	-	1/2"	-	18"	GUY GRAY: MIB1HA
WHA	WATER HAMMER ARRESTOR, LEAD FREE	-	-	-	-	-	JRSMITH SERIES 5200
HB-1	HOSE BIBB, LEAD FREE	-	-	1/2"	-	18"	ACORN 8121-SSLF
WH-1	FROST PROOF WALL HYDRANT W/BOX	-	-	1/2"	-	18"	WOODFORD # MODLE B67

NOTES:
1. MOUNTING HEIGHT IS TO FLOOD LEVEL RIM OF FIXTURE UNLESS NOTED OTHERWISE.
2. LOCATE TEMPERING VALVE ABOVE ACCESSIBLE CEILING OR BEHIND AN ACCESS PANEL BELOW THE FIXTURE. TEMPERING VALVE SHALL BE LOCATED AS CLOSE TO THE FAUCET AS POSSIBLE.
3. PROVIDE FAUCET WITH INLET CHECK STOPS.
4. DISCHARGE INDIRECT WASTE, (3) 1-1/2", TO FS-1
5. MIXING VALVES SHALL BE PROVIDED WITH INTEGRAL SERVICE STOPS.

PUMP SCHEDULE

MARK	LOCATION / SERVICE	TYPE	GPM	HEAD (FEET)	MOTOR DATA					BASIS OF DESIGN		REMARKS
					RPM	HP	V	PH	Hz	MANUFACTURER	MODEL NO.	
HWRP-1	120° F SERVICE	IN-LINE	10	16	1750	1/6	120	1	60	BELL & GOSSETT	SERIES PR	NOTES 1 & 2
SP-1	ELEVATOR HOISTWAY	SUBMERSIBLE	11	40	1750	1/2	120	1	60	ZOELLER	N153 OIL SMART	NOTES 2 &3

NOTES:
1. PROVIDE PUMP WITH BRONZE BODY AND BRASS IMPELLER.
2. PROVIDE PUMP WITH OIL SENSOR SYSTEM WITH LOCAL ALARM.
3. DISCHARGE PIPING SHALL BE TYPE L COPPER.

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BID DOCUMENTS

P602

SCHEDULES

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5215 Essen Lane, Suite 100
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Registration: 0008168
Project No: 2550-01207

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1" 1/2" 0" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

FOOD SERVICE EQUIPMENT SCHEDULE (ALTERNATES)

MARK	DESCRIPTION	CW	HW	W	V	IW	G	CFH	REMARKS
(4) K-11	STAINLESS STEEL HAND SINK	1/2"	1/2"	2"	2"	-	-	-	-
K-13	STAINLESS STEEL MOP SINK	1/2"	1/2"	2"	2"	-	-	-	-
K-14	STACKED WASHER DRYER	1/2"	1/2"	3"	2"	-	-	-	-
K-25	MIXING FAUCET W/HOSE THREADS	1/2"	1/2"	-	-	-	-	-	-
K-27	THREE COMPARTMENT SINK	(2) 1/2"	(2) 1/2"	-	-	(3) 1-1/2"	-	-	FS-27 (NOTE 1)
(2) K-30	DOUBLE DECK GAS CONVECTION OVEN	-	-	-	-	-	3/4"	110	FS-30 (NOTE 1)
(2) K-31	DOUBLE DECK COMBI-OVEN/STEAMER	-	-	-	-	2"	3/4"	213	FS-31 (NOTE 1)
K-32	60-GALLON TILT KETTLE	-	-	-	-	-	3/4"	150	FS-32 (NOTE 1)
K-33	40-GALLON TILTING BRAISING PAN	-	-	-	-	-	1/2"	144	FS-33 (NOTE 1)
K-34	2-BURNER RANGE	-	-	-	-	-	1"	90	FS-33 (NOTE 1)
K-35	UTILITY DISTRIBUTION SYSTEM (UDS)	1"	1"	-	-	-	2"	-	-
K-39	PREPARATION COUNTER W/SINKS	1/2"	1/2"	-	-	(2) 1-1/2"	-	-	FS-39 (NOTE 1)
K-44	ICE MACHINE	1/2"	-	-	-	1-1/2"	-	-	FD-44 (NOTE 1)
TOTAL MBH:								707	

NOTES:
1. EXTEND INDIRECT WASTE TO INDICATED INDIRECT WASTE RECEPTACLE.
2. K-31, K-32, K-33, K-34, CW, HW, & NATURAL GAS SUPPLY FROM K-35, UTILITY DISTRIBUTION SYSTEM.

FOOD SERVICE EQUIPMENT SCHEDULE (BASE BID)

MARK	DESCRIPTION	CW	HW	W	V	IW	REMARKS
K-7	STAINLESS STEEL MOP SINK	1/2"	1/2"	2"	2"	-	
K-8	STACKED WASHER DRYER	1/2"	1/2"	3"	2"	-	-
(3) K-9	STAINLESS STEEL HAND SINK	1/2"	1/2"	2"	2"	-	-
K-10	MIXING FAUCET W/HOSE THREADS	1/2"	1/2"	-	-	-	-
K-11	COMBI-OVEN/STEAMER	(2) 1/2"	-	-	-	(2) 2"	FS-11 (NOTE 1)
K-12	THREE COMPARTMENT SINK	(2) 1/2"	(2) 1/2"	-	-	(3) 1-1/2"	FS-12 (NOTE 1)
K-21	ICE MACHINE	1/2"	-	-	-	1-1/2"	FD-21 (NOTE 1)

NOTES:
1. EXTEND INDIRECT WASTE TO INDICATED INDIRECT WASTE RECEPTACLE.

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SCHEDULES

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1" 3/4" 1/2" 3/8" 1/4" 1/8" 3/16" 1/16" 3/32" 1/32"
The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

ELECTRICAL SYMBOLS

NOT ALL SYMBOLS ARE USED

SYMBOL CEILING	SYMBOL WALL	DESCRIPTION
		LIGHT FIXTURE
		EMERGENCY LIGHT FIXTURE
		EXIT LIGHT. SHADING DENOTES SIDE WITH FACE
		LIGHT FIXTURE - POLE MOUNTED
		LIGHT FIXTURE - WALL WASHER
		LIGHT FIXTURE STRIP
		LIGHT FIXTURE - BATTERY UNIT
	S	LOW VOLTAGE MOMENTARY CONTACT SWITCH
	D	LOW VOLTAGE MOMENTARY CONTACT SWITCH WITH DIMMER
	ST	WALL ASTRONOMICAL TIMER SWITCH
	SCX	DIGITAL SCENE CONTROL DIMMING SWITCH. "x" DENOTES NUMBER OF SCENES
	SZX	DIGITAL ZONE CONTROL STATION WITH MANUAL DIMMING. "x" DENOTES NUMBER OF ZONES
	SNX	DIGITAL ZONE CONTROL WITHOUT MANUAL DIMMING. "x" DENOTES NUMBER OF ZONES
	$	LINE VOLTAGE SWITCH
	$3a	THREE WAY LINE VOLTAGE SWITCH (SUBSCRIPT DENOTES FIXTURE CONTROLLED)
	$4a	FOUR WAY LINE VOLTAGE SWITCH (SUBSCRIPT DENOTES FIXTURE CONTROLLED)
	$D	LINE VOLTAGE DIMMER (SUBSCRIPT DENOTES FIXTURE CONTROLLED)
	$P	LINE VOLTAGE TOGGLE SWITCH WITH PILOT LOT
	$K	LINE VOLTAGE SINGLE POLE SWITCH KEY OPERATED
	Sm	MANUAL STARTER WITH THERMAL OVERLOAD ELEMENT
	$2a	TWO BUTTON WIRELESS DIMMER SWITCH (SUBSCRIPT DENOTES FIXTURE CONTROLLED)
	$2a	TWO BUTTON WIRELESS SWITCH (SUBSCRIPT DENOTES FIXTURE CONTROLLED)
	$3a	THREE BUTTON WIRELESS DIMMER SWITCH (SUBSCRIPT DENOTES FIXTURE CONTROLLED)
	$3a	THREE BUTTON WIRELESS SWITCH (SUBSCRIPT DENOTES FIXTURE CONTROLLED)
	OS	0-10V DIMMER WALL SWITCH SENSOR (DUAL TECHNOLOGY)
	OS	WALL SWITCH SENSOR (DUAL TECHNOLOGY)
	OS2	DUAL RELAY WALL SWITCH SENSOR (DUAL TECHNOLOGY)
PIR	C	PIR OCCUPANCY SENSOR
U	U	ULTRASONIC OCCUPANCY SENSOR
D	DT	DUAL TECHNOLOGY OCCUPANCY SENSOR
J	J	JUNCTION BOX.
	WL	WIRELESS POWER PACK DIMMING MODULE (MOUNTED IN ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE)
	WR	WIRELESS POWER PACK RELAY MODULE (MOUNTED IN ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE)
	PR	POWER PACK RELAY, DUAL VOLTAGE (MOUNTED IN ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE)
	R	LIGHTING CONTROL REMOTE RELAY (NON-DIM OR DIMMING PER PLANS) (MOUNTED IN ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE)
	ER	EMERGENCY LIGHTING CONTROL UNIT (MOUNTED IN ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE)
	RC	ROOM LIGHTING CONTROLLER (MOUNTED IN ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE)
	LC	LIGHTING CONTACTOR
	TC	TIME CLOCK
	P	PHOTOCELL
	WAC	WIRELESS AREA CONTROLLER
		DUPLEX RECEPTACLE 20 AMP, 2 POLE, 3W, 120V, GROUNDING TYPE
		SAME AS ABOVE, MOUNTED ABOVE COUNTER
	GFI	DUPLEX RECEPTACLE, 20 AMP, 2 POLE, 3W GFI TYPE (GROUND FAULT INTERRUPTER)
	IG	DUPLEX RECEPTACLE, 20 AMP, 2 POLE, 3W ISOLATED GROUND TYPE
		SINGLE RECEPTACLE 20 AMP, 2 POLE, 3W, 120V GROUNDING TYPE
		QUADRAPLEX RECEPTACLE
		QUADRAPLEX RECEPTACLE MOUNTED ABOVE COUNTER
		SINGLE RECEPTACLE, 20AMP, 250V, OR 120/250V GROUNDING TYPE (20AMP UNLESS NOTED OTHERWISE)
		SPECIAL RECEPTACLE AS NOTED
	T	TRANSFORMER
		FLOOR BOX WITH 20A DUPLEX RECEPTACLE
		MULTI-SERVICE FLOOR BOX
	2	MOTOR (NUMERAL INDICATES H.P.)
		COMBINATION MAGNETIC STARTER & DISCONNECT SWITCH
		MAGNETIC STARTER (FURNISHED BY MECHANICAL, INSTALLED BY ELECTIRCAL)
	VFD	VARIABLE FREQUENCY DRIVE (FURNISHED BY MECHANICAL, INSTALLED BY ELECTIRCAL)
	B	ENCLOSED CIRCUIT BREAKER
		DISCONNECT SWITCH - SIZE/POLES/FUSE/NEMA TYPE
		PUSH BUTTON STATION
	P	PULL BOX
	M	METER
	CH	DOORBELL CHIME
		MULTI-OUTLET ASSEMBLY (PLUG STRIP OR SURFACE METAL RACEWAY AS NOTED)
		CROSSHATCHING INDICATES EQUIP. DISCONNECTION AND REMOVAL
		CIRCUIT WIRING IN CONDUIT (CONCEALED). TICK MARKS DENOTE QUANTITY OF PHASE AND NEUTRAL CONDUCTORS. CONDUIT IS TO INCLUDE AN EQUIPMENT GROUND WIRE SIZED PER NEC (NOT SHOWN). UNLESS NOTED OTHERWISE, NO MARKS INDICATE 2#12, 1#12 GROUND IN CONDUIT

ELECTRICAL SYMBOLS

NOT ALL SYMBOLS ARE USED

SYMBOL FLUSH	SYMBOL SURFACE	DESCRIPTION
		CONDUIT IN OR UNDER FLOOR SLAB, OR UNDERGROUND
		CONDUIT EXPOSED
EX	EX	EXISTING CONDUIT TO REMAIN
		PANELBOARD
		EQUIPMENT CABINET AS NOTED
CEILING	WALL	TELECOMMUNICATIONS
		TELEPHONE BACKBOARD
	XD XT	COMMINICATION OUTLET. "xD" DENOTES x NUMBER OF DATA DROPS. "xT" DENOTES x NUMBER OF TELEPHONE DROPS IN ONE DEVICE BOX. TWO GANG BOX WITH SINGLE GANG TRIM RING AND FACEPLATE FOR QUANTITY OF DROPS IN BOX
		EMPTY COMMUNICATION OUTLET. TWO GANG BOX WITH SINGLE GANG TRIM RING AND BLANK FACEPLATE. UNLESS NOTED OTHERWISE, PROVIDE 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING.
	WAP	WIRELESS ACCESS POINT. ONE DATA DROP IN BOX
		FLOOR BOX WITH DATA/PHONE OUTLET
		T.V. OUTLET. SINGLE GANG BOX WITH F CONNECTOR AND FACEPLATE
	P	INTERCOM PAGING HORN
		INTERCOM ADMIN TELEPHONE
	I	INTERCOM CALL SWITCH. PROVIDE VOLUME CONTROL STATION ADJACENT TO CALL SWITCH
	1,2	CLOCK. "1" DENOTES SINGLE FACE, "2" DENOTES DOUBLE FACE
S	S	INTERCOM SPEAKER
M	M	MICROPHONE OUTLET
	AR	AREA OF RESCUE CALL STATION
		FIRE ALARM
S	S	SPEAKER ONLY
S15	S15	STROBE ONLY (SUBSCRIPT DENOTES CANDELA OF STROBE)
HS15	HS15	HORN/STROBE (SUBSCRIPT DENOTES CANDELA OF STROBE)
SS15	SS15	SPEAKER/STROBE (SUBSCRIPT DENOTES CANDELA OF STROBE)
		SMOKE DETECTOR
S	S	SMOKE DETECTOR WITH LOW FREQUENCY SOUNDER BASE
	F	MANUAL PULL STATION
	D	DUCT MOUNTED SMOKE DETECTOR. "S" DENOTES SUPPLY DUCT, "R" RETURN DUCT
	T	THERMAL DETECTOR
	CO	COMBINATION SMOKE/CARBON MONOXIDE DETECTOR
	SCO	COMBINATION SMOKE/CARBON MONOXIDE DETECTOR WITH LOW FREQUENCY SOUNDER BASE
	DH	MAGNETIC DOOR HOLDER
	FS	FLOW SWITCH
	TS	TAMPER SWITCH
	CM	CONTROL MODULE
	MM	MONITOR MODULE
		SECURITY
	CR	CARD READER
	M	MOTION DETECTOR 180°
	M	MOTION DETECTOR 360°
	K	SECURITY KEYPAD
C	C	SECURITY CAMERA
A	A	INTRUSION AUDIO DEVICE
		INTRUSION DETECTION SIREN
	ES	ELECTRIC DOOR STRIKE

ABBREVIATIONS	
A	AMPS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL, ALUM	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GUAGE
C	CONDUIT
C.O.	CONDUIT ONLY
CU	COPPER
CT	CURRENT TRANSFORMER
EWC	ELECTRIC WATER COOLER
EX	EXISTING TO REMAIN
FLA	FULL LOAD AMPS
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
IG	ISOLATED GROUND
KVA	KILO VOLT AMPS
KW	KILOWATTS
MTS	MANUAL TRANSFER SWITCH
P	POLE
PH.ø	PHASE
TYP	TYPICAL
TR	TAMPER RESISTANT
WP	WEATHERPROOF
WR	WEATHER RESISTANT
V	VOLTS
XFMR	TRANSFORMER

GENERAL NOTES:

1. WHERE POSSIBLE, EXIT SIGNS AT DOORS SHALL BE WALL MOUNTED ABOVE THE DOOR. FOR LOCATIONS WITH TRANSOMS ABOVE THE DOOR, EXIT SIGNS SHALL BE CEILING MOUNTED.
2. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICES WITH LOCAL UTILITY COMPANY PRIOR TO INSTALLATION OF SERVICE EQUIPMENT AND CONDUITS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE LATEST CONSTRUCTION STANDARDS FROM THE UTILITY AND FULLY COMPLY WITH ALL REQUIREMENTS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
3. COORDINATE THE LOCATION OF ALL DEVICES AND LIGHT FIXTURES WITH THE ARCHITECT, AND OTHER TRADES, PRIOR TO ROUGH-IN. IN FINISHED SPACES LIGHT FIXTURE LOCATIONS SHOWN ON THE DRAWINGS SHALL BE MAINTAINED. WHERE A CONFLICT OCCURS NOTIFY THE ARCHITECT FOR RESOLUTION.
4. THE CONTRACTOR SHALL SEAL ALL CONDUITS, AT BOTH ENDS, ROUTED UNDERGROUND AFTER CONDUCTORS ARE INSTALLED. THIS INCLUDES CONDUITS FOR SERVICE PROVIDERS. PROVIDE SEAL FITTINGS WITH GROUND LUGS AS REQUIRED. EMPTY CONDUITS FOR FUTURE USE, SHALL BE CAPPED, OR SEALED WITH A REMOVABLE TYPE SEALANT.
5. THE CONTRACTOR SHALL COORDINATE AND ARRANGE FOR TEMPORARY POWER DURING CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH TEMPORARY SERVICES IN HIS BID.
6. CONTRACTOR SHALL FIRE SEAL ALL CONDUIT PENETRATIONS AT FIRE RATED WALLS AND FLOORS.
7. ALL DEVICE WALL PLATES SHALL BE NYLON. THIS INCLUDES WALL PLATES FOR POWER RECEPTACLES AND ALL LOW VOLTAGE SYSTEMS.
8. ALL OPEN CABLING FOR LOW VOLTAGE SYSTEMS SHALL BE PLENUM RATED. ALL NON-POWER LIMITED FIRE ALARM CIRCUITS SHALL BE INSTALLED IN RACEWAY. DO NOT INSTALL PVC CONDUIT IN RETURN AIR PLENUMS.
9. ALL EXTERIOR 15 AND 20 AMP NON-LOCKING RECEPTACLES SHALL BE LISTED WATHER-RESISTANT TYPE.
10. THE CONTRACTOR SHALL PROVIDE A SEPARATE NEUTRAL CONDUCTOR, SIZED TO MATCH THE PHASE CONDUCTOR, FOR EACH BRANCH CIRCUIT. DO NOT SHARE A NEUTRAL BETWEEN TWO OR MORE BRANCH CIRCUITS.
11. ELECTRICAL BOXES IN FIRE RATED WALLS SHALL BE PERMITTED PROVIDED THE BOXES DO NOT EXCEED 16 SQ. IN. IN AREA AND THE TOTAL AREA OF ALL BOXES DOES NOT EXCEED 100 SQ. IN. FOR ANY 100 SQ. FT. OF WALL AREA. BOXES SHALL ALSO BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES. WHERE THIS REQUIREMENT CANNOT BE MET, THE CONTRACTOR SHALL PROVIDE FIRESTOP PUTTY PADS ON THE SURFACES OF THE BOXES.
12. EACH BUTTON ON MULTI-BUTTON LOW VOLTAGE SWITCHES SHALL HAVE AN ENGRAVED LEGEND TO IDENTIFY THE LOAD CONTROLLED. CONTRACTOR SHALL SUBMIT LABELING WITH LIGHTING CONTROL SUBMITTAL.
13. DO NOT ROUTE CONDUITS WITHIN SLAB UNLESS APPROVED BY STRUCTURAL ENGINEER IN ADVANCE. CONDUITS SHALL BE ROUTED BELOW SLAB.
14. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
15. NOT ALL BRANCH CIRCUITING IS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE ALL PHASE CONDUCTORS, NEUTRALS, GROUND, SWITCHES, TRAVELERS, ETC. TO EACH DEVICE, EQUIPMENT, FIXTURE, ETC. FOR A COMPLETE SYSTEM.
16. ALL FIBER OPTIC CABLES SHALL BE SINGLE MODE OS1/OS2, 9/125 UM. USE LC CONNECTORS HOUSED IN LIGHT INTERFACE UNIT (LIU) OR RACK MOUNT ENCLOSURE..
17. THE CONTRACTOR SHALL PROVIDE MODIFICATIONS AND ADDITIONS TO THE EXISTING CAMPUS FIRE ALARM SYSTEM TO FORM A COMPLETE AND FULLY FUNCTIONAL FIRE ALARM SYSTEM, COMPLYING WITH NFPA 72. FIRE ALARM NOTIFICATION DEVICES SHALL BE WHITE. PROVIDE ALL HARDWARE, SOFTWARE AND PROGRAMMING NECESSARY.
18. THE CONTRACTOR SHALL PROVIDE MODIFICATIONS AND ADDITIONS TO THE EXISTING CAMPUS INTERCOM SYSTEM. PROVIDE ALL HARDWARE, SOFTWARE AND PROGRAMMING AS NECESSARY.
19. DATA WORKSTATION OUTLETS SHALL CONSIST OF A TWO GANG RECESSED DEVICE BOX WITH A SINGLE GANG TRIM RING, RJ45 JACKS (QUANTITY AS INDICATED ON DRAWINGS AND COLOR TO MATCH CABLE COLOR), AND FACE PLATE. PROVIDE A CAT6 PLENUM RATED CABLE FOR EACH DATA DROP AND RUN TO THE PATCH PANELS IN IT ROOM. TERMINATE, LABEL AND TEST ALL CABLES.
20. SPECIAL SYSTEMS WIRING SHALL BE RUN EXPOSED ABOVE ACCESSIBLE CEILINGS SUPPORTED EVERY 36" TO 48" ON J-HOOKS. WHERE WIRING PENETRATES FIRE RATED WALLS OR SMOKE PARTITIONS, PROVIDE FIRE RATED PATHWAY KITS (HILTI CP-653 SPEED SLEEVE). SPECIAL SYSTEMS WIRING SHALL BE INSTALLED IN CONDUIT IN THE FOLLOWING
    a. WITHIN WALLS; CONDUIT STUB-UP INTO ACCESSIBLE CEILING SPACE.
    b. IN SLAB OR UNDERGROUND.
    c. IN INACCESSIBLE SPACES ABOVE HARD CEILINGS.
    d. WHERE WIRING WOULD BE EXPOSED, SUCH AS MECHANICAL ROOMS.
    e. WHERE OTHERWISE NOTED.

    CONDUIT SHALL BE SIZED PER NEC FOR THE WIRING CONTAINED THERE-IN, MINIMUM 3/4" TRADE SIZE. PROVIDE 3/4" CONDUIT FOR UP TO TWO (2) CAT 6 CABLES, 1" CONDUIT FOR UP TO FOUR (4) CAT 6 CABLES, 1-1/4" CONDUIT UP TO SEVEN (7) CAT 6 CABLES AND 1-1/2" CONDUIT UP TO NINE (9) CAT 6 CABLES. PROVIDE INSULATED BUSHINGS ON ALL CONDUIT ENDS, AND PULL BOXES AS REQUIRED BY SPECIAL SYSTEMS CONTRACTOR.
21. PROVIDE FIRE RATED PATHWAY SLEEVES (HILTI CP653 SERIES OR EQUAL) THROUGH SMOKE AND FIRE RATED WALLS WHERE LOW VOLTAGE CABLES ARE REQUIRED TO PASS THROUGH. CONDUIT SLEEVES SHALL BE PROVIDED IN NON-RATED FULL HRIGHT WALLS. A COMPLETE PATHWAY IS REQUIRED FROM EACH DEVICE TO THE IDF RACK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN ADEQUATE QUANTITY OF SLEEVES FOR THE CABLING. ALLOW FOR 25% FUTURE GROWTH. COORDINATE ALL LOCATIONS WITH ARCHITECTURAL LIFE SAFETY DRAWINGS AND PROVIDE SIZE AND QUANTITY AS NECESSARY.
22. OCCUPANCY SENSOR LAYOUT SHOWN IS APPROXIMATE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO SHOW ACTUAL LOCATIONS, AND COORDINATE LAYOUT WITH AIR DIFFUSERS AND OTHER SYSTEMS IN CEILING. DO NOT LOCATE OCCUPANCY SENSORS WITHIN 5' OF SUPPLY OR RETURN AIR DIFFUSERS.
23. PROVIDE ALL LOW VOLTAGE WIRING (NOT SHOWN FOR CLARITY) BETWEEN ROOM LIGHTING CONTROLLERS AND ROOM OCCUPANCY SENSORS AND LOW VOLTAGE SWITCHES FOR A COMPLETE LIGHTING CONTROL SYSTEM.
24. WHERE WORK IS PERFORMED IN EXISTING PORTIONS OF THE SCHOOL, THE CONTRACTOR SHALL COORDINATE AND SCHEDULE THIS WORK WITH THE SCHOOL IN ADVANCE. THE CONTRACTOR SHALL PERFORM THIS WORK AFTER NORMAL HOURS, HOLIDAYS OR AT NIGHT. WHERE WORK IS REQUIRED ABOVE EXISTING CEILINGS IN EXISTING AREAS OF THE SCHOOL, THE CONTRACTOR SHALL REMOVE AND RE-INSTALL EXISTING CEILING GRIDS AND TILES AS NECESSARY. DAMAGED CEILING GRID OR TILE SHALL BE REPLACED WITH NEW BY THE CONTRACTOR AT HIS EXPENSE.
25. PROVIDE PULL BOXES (NOT SHOWN), SIZED IN ACCORDANCE WITH THE NEC, FOR POWER FEEDERS AND COMMUNICATIONS. MAXIMUM OF THREE 90 DEGREE BENDS IN ANY POWER FEEDER WITHOUT A PULL BOX. MAXIMUM OF TWO 90 DEGREE BENDS IN ANY COMMUNICATION FEEDER. COORDINATE LOCATION OF PULL BOXES WITH OTHER TRADES PRIOR TO INSTALLATION.
26. PAINT ALL EXPOSED CONDUIT AND BOXES TO MATCH WALL/CEILING FINISH. COLOR SHALL BE SELECTED BY ARCHITECT.
27. ELECTRICAL CONTRACTOR SHALL DETERMINE ALL FLOW AND TAMPER SWITCH LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO BID AND INCLUDE COSTS FOR CONNECTIONS TO FIRE ALARM SYSTEM IN BID.
28. DATA OUTLETS SHALL BE WITHIN 12 INCHES OF POWER OUTLETS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING POWER AND DATA OUTLET LOCATIONS PRIOR TO ROUGH-IN.
29. USE LONG RADIUS SWEEPING 90 DEGREE BENDS FOR ALL DATA/LOW VOLTAGE CONDUITS.
30. LIGHTING CONTROLS SHALL COMPLY WITH 2021 IECC. THE CONTRACTOR SHALL PROVIDE COMPLETE TESTING AND COMMISSIONING OF CONTROL SYSTEM. SEE SPECIFICATION FOR DETAILS.
31. CONTRACTOR SHALL VERIFY ALL PANEL CIRCUIT DIRECTORY LOAD DESCRIPTIONS WITH FINAL ROOM NAMES AND NUMBERS PRIOR TO TYPING DIRECTORIES.
32. PROVIDE CLEAR PROTECTIVE SHIELD WITH ALARM FOR ALL FIRE ALARM PULL STATIONS.
33. ALL RECEPTACLES FOR THIS PROJECT SHALL BE TAMPER RESISTANT TYPE.

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10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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BID DOCUMENTS

E100

GENERAL NOTES, SYMBOL LIST

H/S

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LIGHTING FIXTURE SCHEDULE

TYPE	REMARKS	CATALOG NO.	MOUNTING	VOLT	LAMPS			
					QTY	TYPE	TOTAL WATTS	KELVIN TEMP
F1	2x2 LED FLAT PANEL, 3000 LUMEN	DAYBRITE #2FPZ-30L-935-2-DS-UNV-DIM	RECESSED	277	1	LED	23	3500K
F1E	2x2 LED FLAT PANEL, 3000 LUMEN, EMERGENCY	DAYBRITE #2FPZ-30L-935-2-DS-UNV-DIM-EM10	RECESSED	277	1	LED	23	3500K
F2	2X4 LED FLAT PANEL, 4300 LUMEN	DAYBRITE #2FPZ-43L-935-4-DS-UNV-DIM	RECESSED	277	1	LED	30	3500K
F2E	2X4 LED FLAT PANEL, 4300 LUMEN, EMERGENCY	DAYBRITE #2FPZ-43L-935-4-DS-UNV-DIM-EM10	RECESSED	277	1	LED	30	3500K
F3	2X4 LED FLAT PANEL, 6000 LUMEN	DAYBRITE #2FPZ-60L-935-4-DS-UNV-DIM	RECESSED	277	1	LED	47	3500K
F3E	2X4 LED FLAT PANEL, 6000 LUMEN, EMERGENCY	DAYBRITE #2FPZ-60L-935-4-DS-UNV-DIM-EM10	RECESSED	277	1	LED	47	3500K
F4	2x2 LED FLAT PANEL, 3800 LUMEN	DAYBRITE #2FPZ-38L-935-2-DS-UNV-DIM	RECESSED	277	1	LED	34	3500K
F5	4 LED LINEAR WITH OCCUPANCY SENSOR, PHOTOCELL, & EMERGENCY BATTERY, 4000 LUMENS	KENALL #MLHA3-48-R-MW-PP-1000LF-35K8-DIM1-DV-LEL-TL50DM	SURFACE	277	1	LED	32	3500K
F6	4IN LED DOWNLIGHT, 2000 LUMENS	LIGHTOLIER #4-R-N-P4R-DL-20-935-W-CC-Z10-U	RECESSED	120	1	LED	16	3500K
F7	1x4 LED FLAT PANEL, 3000 LUMEN, FLANGE TRIM	DAYBRITE #1FPZ-30L-835-4-DS-UNV-DIM-FMA14FP	RECESSED	277	1	LED	25	3500K
F7E	1x4 LED FLAT PANEL, 3000 LUMEN, EMERGENCY, FLANGE TRIM	DAYBRITE #1FPZ-30L-835-4-DS-UNV-DIM-EM10-FMA14FP	RECESSED	277	1	LED	25	3500K
F8	4 FT LED LENSED STRIP, 4000 LUMEN	DAYBRITE #FLP-4-40L-835-R-UNV-DIM	RECESSED	277	1	LED	29	3500K
F8E	4 FT LED LENSED STRIP, 4000 LUMEN, EMERGENCY	DAYBRITE #FLP-4-40L-835-R-UNV-DIM-EM10	RECESSED	277	1	LED	29	3500K
F9	4IN LED DOWNLIGHT, 500 LUMENS	LIGHTOLIER #4-R-N-P4R-DL-05-935-W-CC-Z10-U	RECESSED	277	1	LED	6	3500K
F10	2X4 SEALED LED TROFFER, NSF RATED, 6500 LUMEN	KENALL #CSEDO-24-45LD-35K9-DIM1-DV-2F-4H-SYM-FN	RECESSED	277	1	LED	46	3500K
F10E	2X4 SEALED LED TROFFER, NSF RATED, 6500 LUMEN, EMERGENCY	KENALL #CSEDO-24-45LD-35K9-DIM1-DV-2F-4H-SYM-FN-LEL	RECESSED	277	1	LED	46	3500K
F11	4.5 INCH ADJUSTABLE LED DOWNLIGHT, 2000 LUMENS	FOCAL POINT #FLCS4-RO-2000L-935K-VWFL-UNV-LZ1-IC-LCS4-RDO-SL-CD	RECESSED	277	1	LED	24	3500K
F11E	4.5 INCH ADJUSTABLE LED DOWNLIGHT, 2000 LUMENS, EMERGENCY	FOCAL POINT #FLCS4-RO-2000L-935K-VWFL-UNV-LZ1-T-EMR-LSC4-RDO-SL-CD	RECESSED	277	1	LED	24	3500K
F12	4 FT LED VAPORTIGHT, 5000 LUMEN	DAYBRITE #VTS-4-50L-840-UN3-DIM	SURFACE	277	1	LED	44	4000K
F13	2 FT LED VANITY LIGHT, 2000 LUMEN	TGS #VF1-2425-CC-U-BN-90CRI	WALL	277	1	LED	25	3500K
F14	4IN LED DOWNLIGHT, 1000 LUMENS	LIGHTOLIER #4-R-N-P4R-DL-10-935-W-CC-Z10-U	RECESSED	277	1	LED	9	3500K
F14E	4IN LED DOWNLIGHT, 1000 LUMENS, EMERGENCY	LIGHTOLIER #4-R-N-EM6-P4R-DL-10-935-W-CC-Z10-U-CAEM6TSCP	RECESSED	277	1	LED	9	3500K
F15	LED EXIT SIGN	CHLORIDE #ER55L-3-W-R	WALL/CLG	277		LED		
F16	LED PERIMETER LIGHT, 625 LM/FT, 10'6" LENGTH	FOCAL POINT #FSM4PR-ALH-FL2-625LF-935K-1C-UNV-LD1-XF-WH-10FT6IN	RECESSED	277	1	LED	57	3500K
F17	4.5 INCH ADJUSTABLE LED DOWNLIGHT, 3000 LUMENS	FOCAL POINT #FLCS4-RO-3000L-935K-VWFL-277-LZ1-IC-LCS4-RDO-SL-CD	RECESSED	277	1	LED	33	3500K
F17E	4.5 INCH ADJUSTABLE LED DOWNLIGHT, 3000 LUMENS, EMERGENCY	FOCAL POINT #FLCS4-RO-3000L-935K-VWFL-277-LZ1-T-EMR-LSC4-RDO-SL-CD	RECESSED	277	1	LED	33	3500K
F18	4 FT LED VAPORTIGHT, 5000 LUMEN	DAYBRITE #VTS-4-50L-840-UN3-DIM	SURFACE	120	1	LED	44	4000K
F19	6" LED DOWNLIGHT, NSF & WET LOCATION LISTED, 2700 LUMEN	KENALL #EPDL6-NF-DCFW-24L-35K9-W-CSS-G-RIG6-DV-DIM1	RECESSED	277	1	LED	28	3500K
F19E	6" LED DOWNLIGHT, NSF & WET LOCATION LISTED, 2700 LUMEN, EMERGENCY	KENALL #EPDL6-NF-DCFW-24L-35K9-W-CSS-G-RIG6-DV-DIM1-LEL	RECESSED	277	1	LED	28	3500K
F20	8FT LED RECESSED LINEAR, 550 LM/FT	LEDALITE #39-0-1-L-935-22-Q-S-1-08-D-E-1-N-NN-W	RECESSED	277	1	LED	40	3500K
F20E	8FT LED RECESSED LINEAR, 550 LM/FT, EMERGENCY	LEDALITE #39-0-1-L-935-22-Q-S-1-08-D-E-1-(1)B-NN-W (NOTE 1)	RECESSED	277	1	LED	40	3500K
F21	16FT LED RECESSED LINEAR, 550 LM/FT	LEDALITE #39-0-1-L-935-22-Q-S-1-16-D-E-1-N-NN-W	RECESSED	277	1	LED	80	3500K
F21E	16FT LED RECESSED LINEAR, 550 LM/FT, EMERGENCY	LEDALITE #39-0-1-L-935-22-Q-S-1-16-D-E-1-(1)B-NN-W (NOTE 1)	RECESSED	277	1	LED	80	3500K
F22	LED EXIT SIGN, NSF RATED	KENALL #METSU-MW-R-DT-EL	WALL/CLG			LED		
F23	6IN LED DOWNLIGHT, 2000 LUMENS	LIGHTOLIER #6-R-N-P6R-DL-20-935-W-CC-Z10-U	RECESSED	277	1	LED	18	3500K
F23E	6IN LED DOWNLIGHT, 2000 LUMENS, EMERGENCY	LIGHTOLIER #6-R-N-EM6-P6R-DL-20-935-W-CC-Z10-U-CAEM6TSCP	RECESSED	277	1	LED	18	3500K
F24	6IN LED WET LOCATION DOWNLIGHT, 2000 LUMENS	LIGHTOLIER #6-R-N-P6R-SL-20-940-W-WH-Z10-U	RECESSED	277	1	LED	18	4000K
F24E	6IN LED WET LOCATION DOWNLIGHT, 2000 LUMENS, EMERGENCY	LIGHTOLIER #6-R-N-EM6-P6R-SL-20-940-W-WH-Z10-U-CAEM6TSCP	RECESSED	277	1	LED	18	4000K
F25	LED CANOPY LIGHT WITH 4% UPLIGHT, 9000 LUMENS	GARDCO #SVPG-9L-840-5RD-PN2-UNV-MG	SURFACE	277	1	LED	75	4000K
F26	2' CANOPY LIGHT, 2000 LUMENS	KENALL #MLHA3-24-F-MW-PP-1000LF-35K8-DIM1-DV	SURFACE	277	1	LED	16	3500K
F27	WALL PACK, 1700 LUMENS	FC LIGHTING #FCW1030-UNV-35K-CRI90-17L-BKE-WFL-LD	WALL	277	1	LED	25	3500K
F27E	WALL PACK, 1700 LUMENS, EMERGENCY	FC LIGHTING #FCW1030-UNV-35K-CRI90-17L-BKE-WFL-LD-BBUR	WALL	277	1	LED	25	3500K
F28	4 LED LINEAR, 4000 LUMENS	KENALL #MLHA3-48-R-MW-PP-1000LF-35K8-DIM1-DV	SURFACE	277	1	LED	32	3500K
F29A	TYPE 4 LED AREA LIGHT, 15537 LUMEN, 22.5 FT SQUARE STRAIGHT STEEL POLE	GARDCO #ECF-S-32L-1.2A-NW-G2-AR-4-UNV-BZ/ ULS #RPSQ-4-7-CUST[22.5]-AB-D1-BZ-CSBC	POLE	277	1	LED	122	4000K
F29B	TYPE 3 LED AREA LIGHT, 14851 LUMEN, 22.5 FT SQUARE STRAIGHT STEEL POLE	GARDCO #ECF-S-32L-1.2A-NW-G2-AR-3-UNV-BZ/ ULS #RPSQ-4-7-CUST[22.5]-AB-D1-BZ-CSBC	POLE	277	1	LED	122	4000K
F30	2x2 LED FLAT PANEL, 2000 LUMEN	DAYBRITE #2FPZ-20L-935-2-DS-UNV-DIM	RECESSED	277	1	LED	16	3500K
F31	4 FT LED LENSED STRIP, 4000 LUMENS, 2 HOUR EMERGENCY DRIVER	DAYBRITE #FLP-4-40L-835-R-UNV-DIM/ BODINE #BSL-14-U-A-K-55-C1-2H-1-1	RECESSED	277	1	LED	29	3500K
F32	2 LED AREA LIGHTS @ 180° TYPE 2/ TYPE 3, 9720/9509 LUMENS, 22.5 FT SQUARE STRAIGHT STEEL POLE	GARDCO #(1)ECF-S-32L-700-NW-G2-AR-2-UNV-BZ/GARDCO #(1)ECF-S-32L-700-NW-G2-AR-3-UNV-BZ/ULS #RPSQ-4-7-CUST[22.5]-AB-D2-BZ-CSBC	POLE	277	1	LED	146	4000K
F33	TYPE 4 LED AREA LIGHT, 9949 LUMEN, 22.5 FT SQUARE STRAIGHT STEEL POLE	GARDCO #ECF-S-32L-700-NW-G2-AR-4-UNV-BZ/ ULS #RPSQ-4-7-CUST[22.5]-AB-D1-BZ-CSBC	POLE	277	1	LED	73	4000K
F34	EXTERIOR DIRECT/INDIRECT WALL SCONCE	LUMINIS #SYP602-L1L25-LD3-UL1L20-UNR-35K-277V-MST	WALL	277	1	LED	42	3500K

NOTES:
1. PROVIDE THE INDICATED QUANTITY OF INTEGRAL BATTERY PACKS FOR 4 FT EMERGENCY SECTION(S). SEE DRAWINGS FOR LOCATIONS.

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IN
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10-1-24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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BID DOCUMENTS

E101

LIGHTING FIXTURE SCHEDULE

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PROJECT NO: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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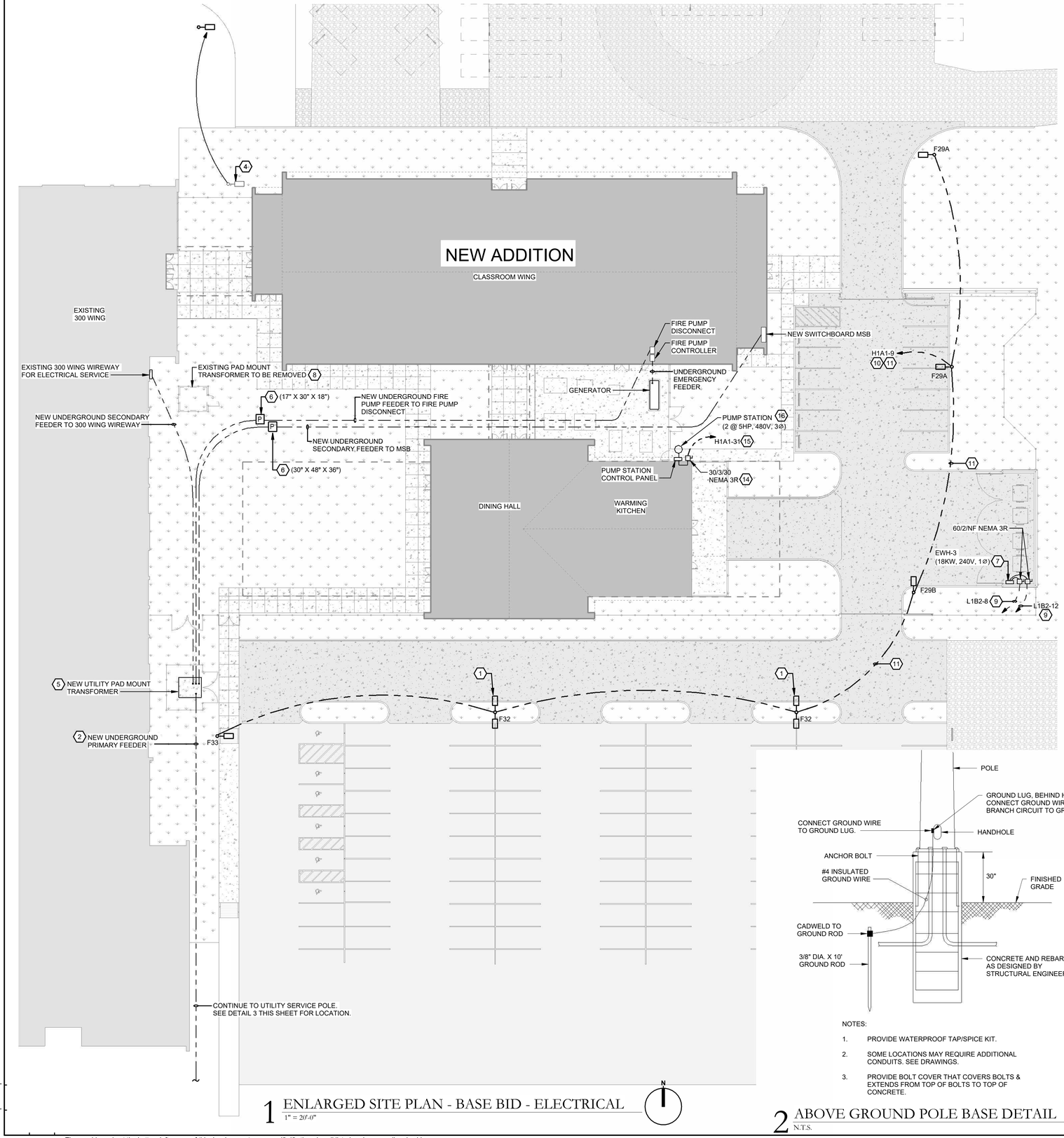


1 ENLARGED SITE PLAN - BASE BID - ELECTRICAL

1" = 20'-0"

NOTES:

1. PROVIDE WATERPROOF TAP/SPICE KIT.
2. SOME LOCATIONS MAY REQUIRE ADDITIONAL CONDUITS. SEE DRAWINGS.
3. PROVIDE BOLT COVER THAT COVERS BOLTS & EXTENDS FROM TOP OF BOLTS TO TOP OF CONCRETE.

2 ABOVE GROUND POLE BASE DETAIL

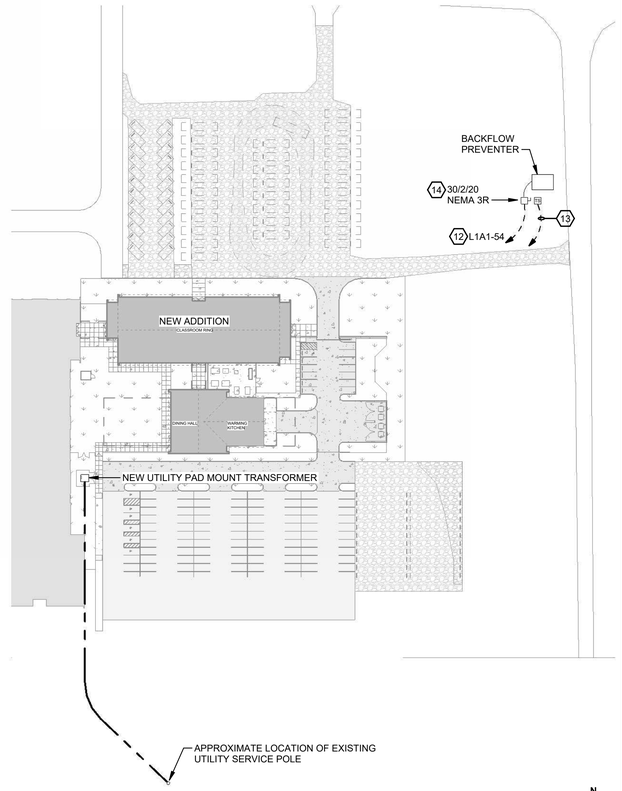
N.T.S.

GENERAL NOTES:

1. COORDINATE ALL NEW UNDERGROUND CONDUIT, BOXES, AND EQUIPMENT AND LIGHT POLE FOUNDATIONS WITH EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL PROVIDE GROUND PENETRATING RADAR TO LOCATE EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW WORK. DAMAGES TO EXISTING UTILITIES DUE TO NEW WORK PLACED SHALL BE REPAIRED/REPLACED AT THE CONTRACTORS EXPENSE.

REFERENCE NOTES:

1. TYPE TWO DISTRIBUTION FIXTURE SHALL BE AIMED TOWARD BUILDING.
2. NEW PRIMARY CONDUITS (2-5"C) TO EXISTING UTILITY POLE. PROVIDE IN GROUND VAULT/PULL BOX PER ENTERGY CONSTRUCTION STANDARDS.
3. 3/4"C-2#8, #10 GND.
4. RELOCATE EXISTING LIGHT POLE TO NEW LOCATION. EXTEND EXISTING CIRCUITRY TO NEW LOCATION.
5. PROVIDE CONCRETE FOUNDATION AND GROUNDING PER ENTERGY CONSTRUCTION STANDARDS.
6. NEW INGROUND PULL BOX (TIER 22), SIZE AS INDICATED. SET FLUSH WITH FINAL GRADE.
7. EWH-3 DERATED TO 13.75 KW AT 208V, 1 Ø. PROVIDE TWO 40A, 208V, 1 Ø CIRCUITS.
8. DO NOT REMOVE UNTIL NEW PAD MOUNT TRANSFORMER IS INSTALLED AND READY TO SERVE THE 300 WING. REMOVE ALL CONDUCTORS AND ACCESSIBLE CONDUIT. REMOVE GROUNDING AND CONCRETE PAD. COORDINATE TRANSFORMER REMOVAL WITH ENTERGY.
9. 1"C-2#6, #8 GND.
10. ROUTE THRU RELAY R1 IN ELECTRICAL ROOM FOR CONTROL.
11. 3/4"C-2#10, #10 GND.
12. 3/4"C-3#8, #8 GND.
13. 3/4" UNDERGROUND CONDUIT WITH FIRE ALARM WIRING TO BUILDING FIRE ALARM SYSTEM.
14. PROVIDE HOT DIPPED GALVANIZED UNISTRUT SUPPORT RACK TO MOUNT DISCONNECT.
15. 3/4"C-4#10, #10 GND.
16. PROVIDE EMPTY CONDUITS WITH EYS SEAL FITTINGS FOR PUMP POWER AND CONTROLS FROM CONTROL PANEL TO PUMP WET WELL. COORDINATE CONDUIT QUANTITY AND SIZE WITH APPROVED SHOP DRAWINGS. MIN 3 - 2" CONDUITS. PUMP POWER AND CONTROL CABLING FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL. SEAL AFTER CABLES INSTALLED. PROVIDE NEMA 4X SS J-BOX BETWEEN SEAL FITTINGS AND WET WELL SO THAT POWER AND CONTROL CABLE OUTER JACKET CAN BE STRIPPED AND INDIVIDUAL CONDUCTORS ROUTED THROUGH SEAL FITTINGS TO THE CONTROL PANEL.



3 OVERALL SITE PLAN - BASE BID

1" = 80'-0"

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ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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REGISTERED PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
10.1.26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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BID DOCUMENTS

E102

SITE PLAN - BASE BID - ELECTRICAL

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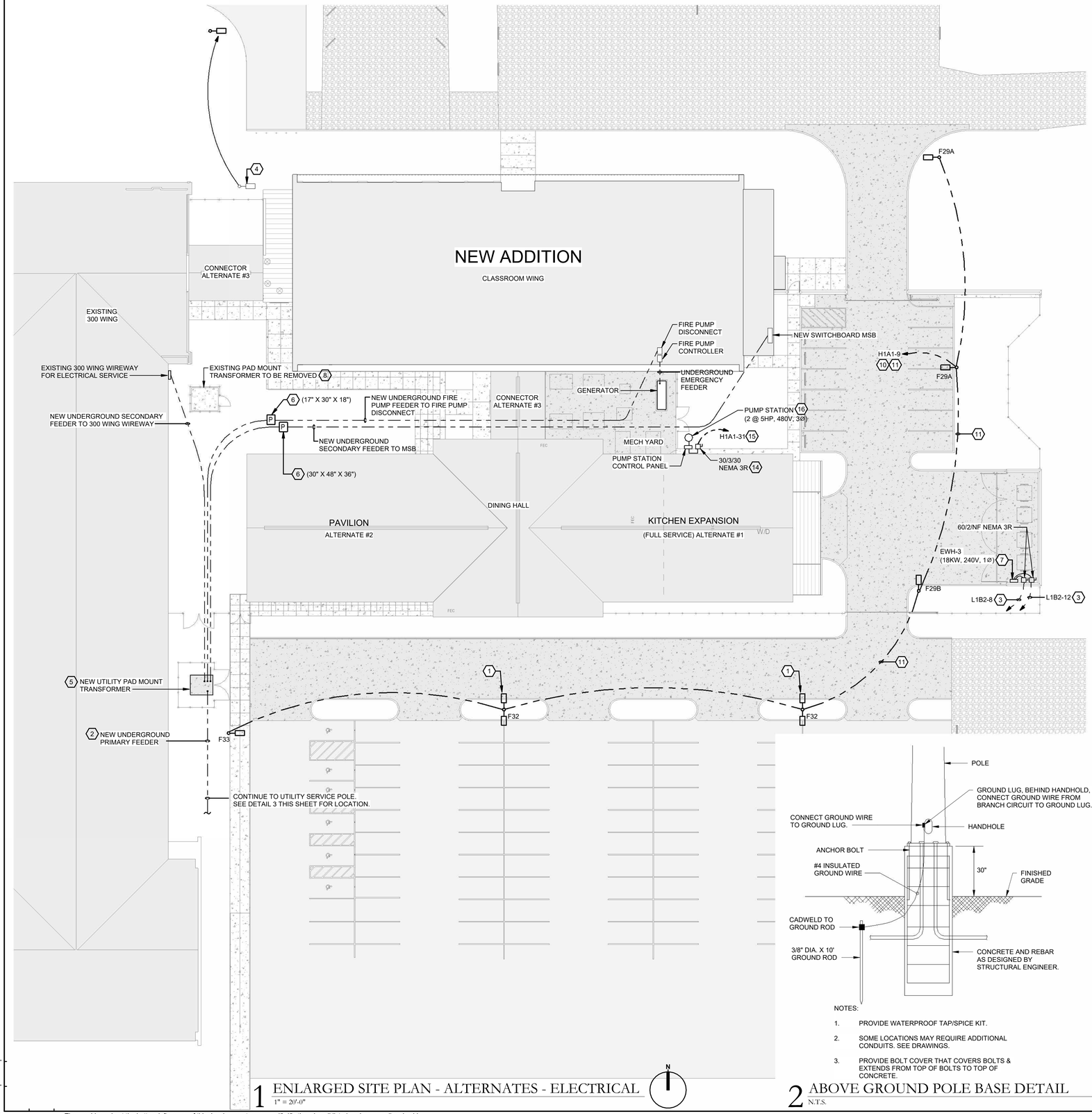
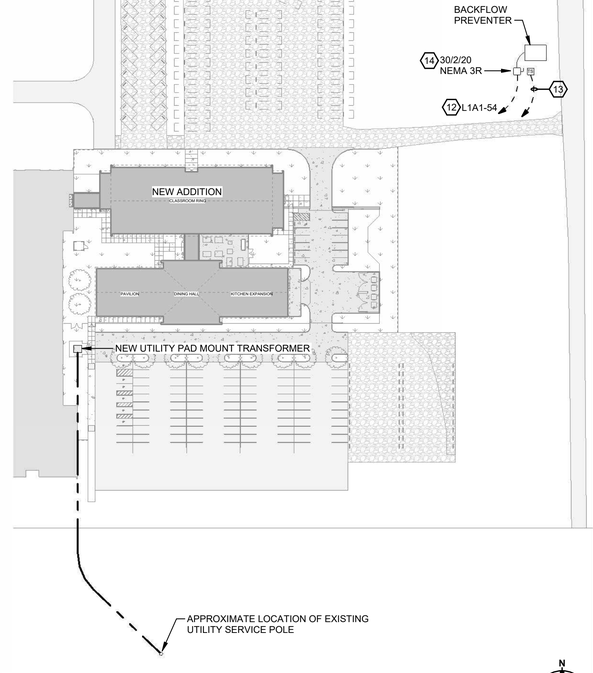


1 ENLARGED SITE PLAN - ALTERNATES - ELECTRICAL
1" = 20'-0"

NOTES:

1. PROVIDE WATERPROOF TAP/SPICE KIT.
2. SOME LOCATIONS MAY REQUIRE ADDITIONAL CONDUITS. SEE DRAWINGS.
3. PROVIDE BOLT COVER THAT COVERS BOLTS & EXTENDS FROM TOP OF BOLTS TO TOP OF CONCRETE.

2 ABOVE GROUND POLE BASE DETAIL
N.T.S.



3 OVERALL SITE PLAN -ALTERNATES
1" = 80'-0"

GENERAL NOTES:

1. COORDINATE ALL NEW UNDERGROUND CONDUIT, BOXES, AND EQUIPMENT AND LIGHT POLE FOUNDATIONS WITH EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL PROVIDE GROUND PENETRATING RADAR TO LOCATE EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW WORK. DAMAGES TO EXISTING UTILITIES DUE TO NEW WORK PLACED SHALL BE REPAIRED/REPLACED AT THE CONTRACTORS EXPENSE.

REFERENCE NOTES:

1. TYPE TWO DISTRIBUTION FIXTURE SHALL BE AIMED TOWARD BUILDING.
2. NEW PRIMARY CONDUITS (2-5"C) TO EXISTING UTILITY POLE. PROVIDE IN GROUND VAULT/PULL BOX PER ENTERGY CONSTRUCTION STANDARDS.
3. 3/4"C-2#8, #10 GND.
4. RELOCATE EXISTING LIGHT POLE TO NEW LOCATION. EXTEND EXISTING CIRCUITRY TO NEW LOCATION.
5. PROVIDE CONCRETE FOUNDATION AND GROUNDING PER ENTERGY CONSTRUCTION STANDARDS.
6. NEW INGROUND PULL BOX (TIER 22), SIZE AS INDICATED. SET FLUSH WITH FINAL GRADE.
7. EWH-3 DERATED TO 13.75 KW AT 208V, 1 Ø. PROVIDE TWO 40A, 208V, 1 Ø CIRCUITS.
8. DO NOT REMOVE UNTIL NEW PAD MOUNT TRANSFORMER IS INSTALLED AND READY TO SERVE THE 300 WING. REMOVE ALL CONDUCTORS AND ACCESSIBLE CONDUIT. REMOVE GROUNDING AND CONCRETE PAD. COORDINATE TRANSFORMER REMOVAL WITH ENTERGY.
9. 1"C-2#6, #8 GND.
10. ROUTE THRU RELAY R1 IN ELECTRICAL ROOM FOR CONTROL.
11. 3/4"C-2#10, #10 GND.
12. 3/4"C-3#8, #8 GND.
13. 3/4" UNDERGROUND CONDUIT WITH FIRE ALARM WIRING TO BUILDING FIRE ALARM SYSTEM.
14. PROVIDE HOT DIPPED GALVANIZED UNISTRUT SUPPORT RACK TO MOUNT DISCONNECT.
15. 3/4"C-4#10, #10 GND.
16. PROVIDE EMPTY CONDUITS WITH EYS SEAL FITTINGS FOR PUMP POWER AND CONTROLS FROM CONTROL PANEL TO PUMP WET WELL. COORDINATE CONDUIT QUANTITY AND SIZE WITH APPROVED SHOP DRAWINGS. MIN 3 - 2" CONDUITS. PUMP POWER AND CONTROL CABLING FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL. SEAL AFTER CABLES INSTALLED. PROVIDE NEMA 4X SS J-BOX BETWEEN SEAL FITTINGS AND WET WELL SO THAT POWER AND CONTROL CABLE OUTER JACKET CAN BE STRIPPED AND INDIVIDUAL CONDUCTORS ROUTED THROUGH SEAL FITTINGS TO THE CONTROL PANEL.

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10.1.26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
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DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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BID DOCUMENTS

E103

OVERALL SITE PLAN - ALTERNATE - ELECTRICAL

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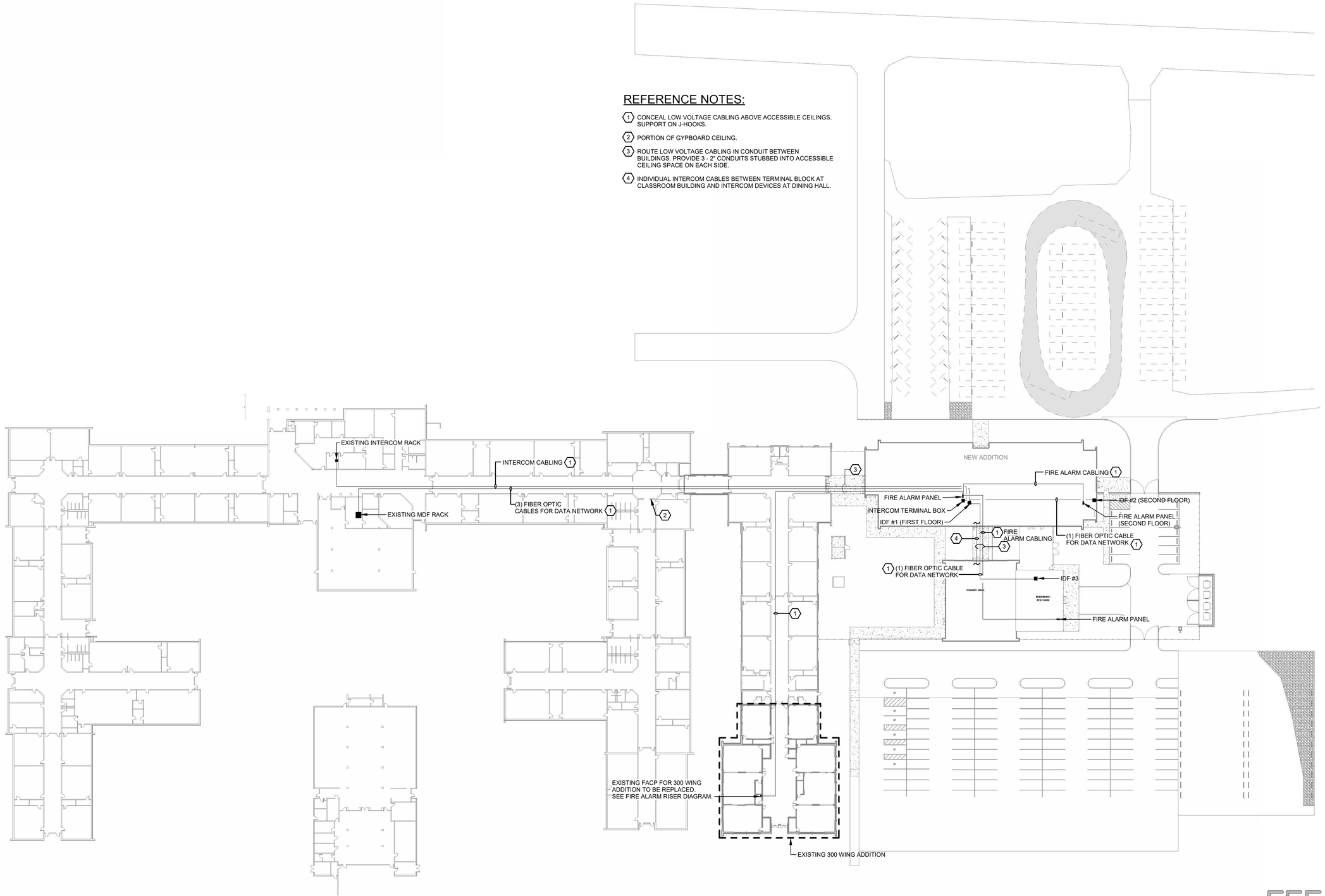
REFERENCE NOTES:

1. CONCEAL LOW VOLTAGE CABLING ABOVE ACCESSIBLE CEILINGS. SUPPORT ON J-HOOKS.
2. PORTION OF GYPBOARD CEILING.
3. ROUTE LOW VOLTAGE CABLING IN CONDUIT BETWEEN BUILDINGS. PROVIDE 3 - 2" CONDUITS STUBBED INTO ACCESSIBLE CEILING SPACE ON EACH SIDE.
4. INDIVIDUAL INTERCOM CABLES BETWEEN TERMINAL BLOCK AT CLASSROOM BUILDING AND INTERCOM DEVICES AT DINING HALL.



1 OVERALL SITE PLAN - BASE BID - SPECIAL SYSTEMS

1" = 40'-0"

1" ½" 0" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

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NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
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PROJECT NO: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

E104

OVERALL PLAN - BASE BID - SPECIAL SYSTEMS

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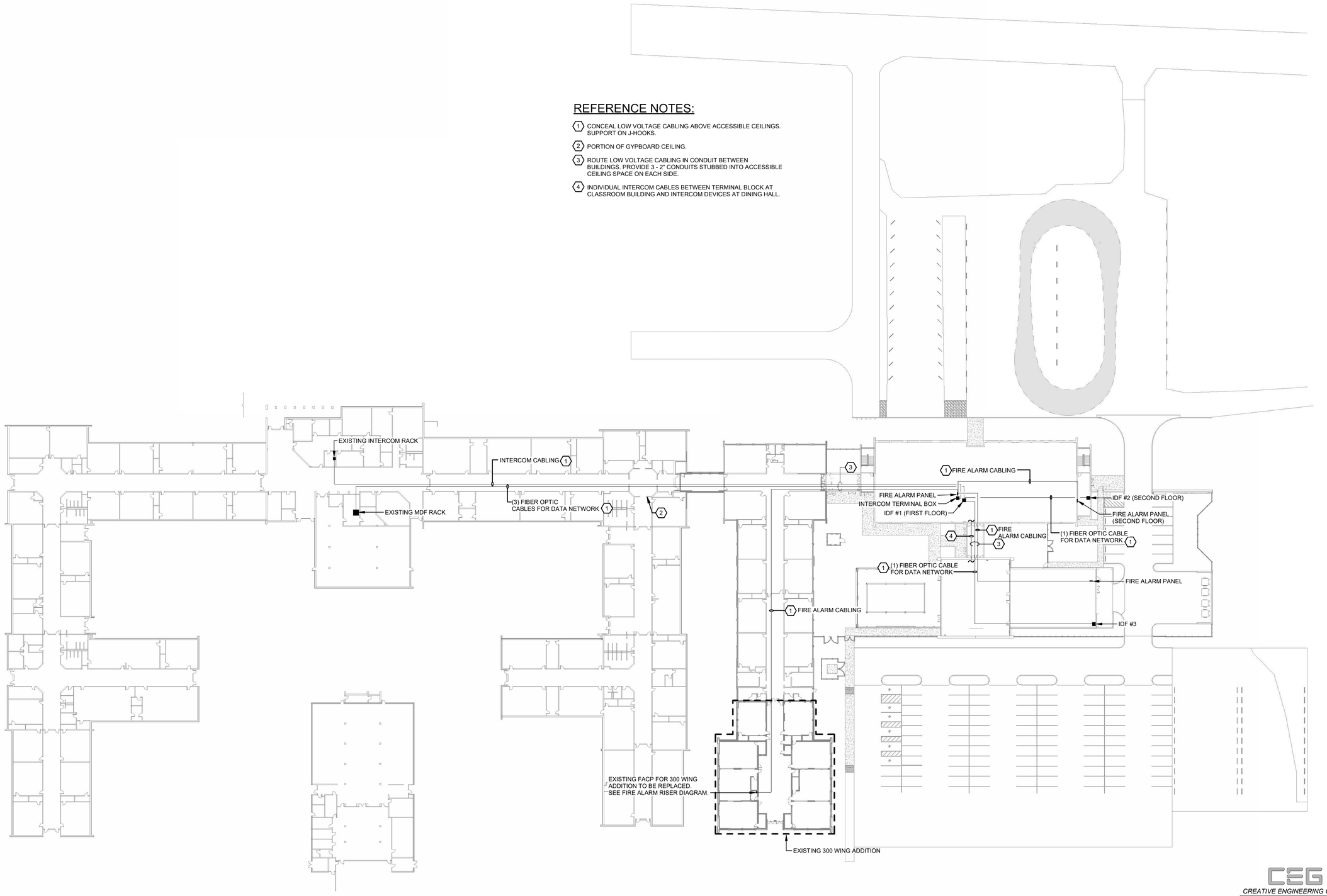
REFERENCE NOTES:

1. CONCEAL LOW VOLTAGE CABLING ABOVE ACCESSIBLE CEILINGS. SUPPORT ON J-HOOKS.
2. PORTION OF GYPBOARD CEILING.
3. ROUTE LOW VOLTAGE CABLING IN CONDUIT BETWEEN BUILDINGS. PROVIDE 3 - 2" CONDUITS STUBBED INTO ACCESSIBLE CEILING SPACE ON EACH SIDE.
4. INDIVIDUAL INTERCOM CABLES BETWEEN TERMINAL BLOCK AT CLASSROOM BUILDING AND INTERCOM DEVICES AT DINING HALL.



1 OVERALL PLAN - ALTERNATE - SPECIAL SYSTEMS

1" = 40'-0"

1" ½" 0" ½" 1"

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10.1.24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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PROJECT NO: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

E105

OVERALL PLAN - ALTERNATE - SPECIAL SYSTEMS

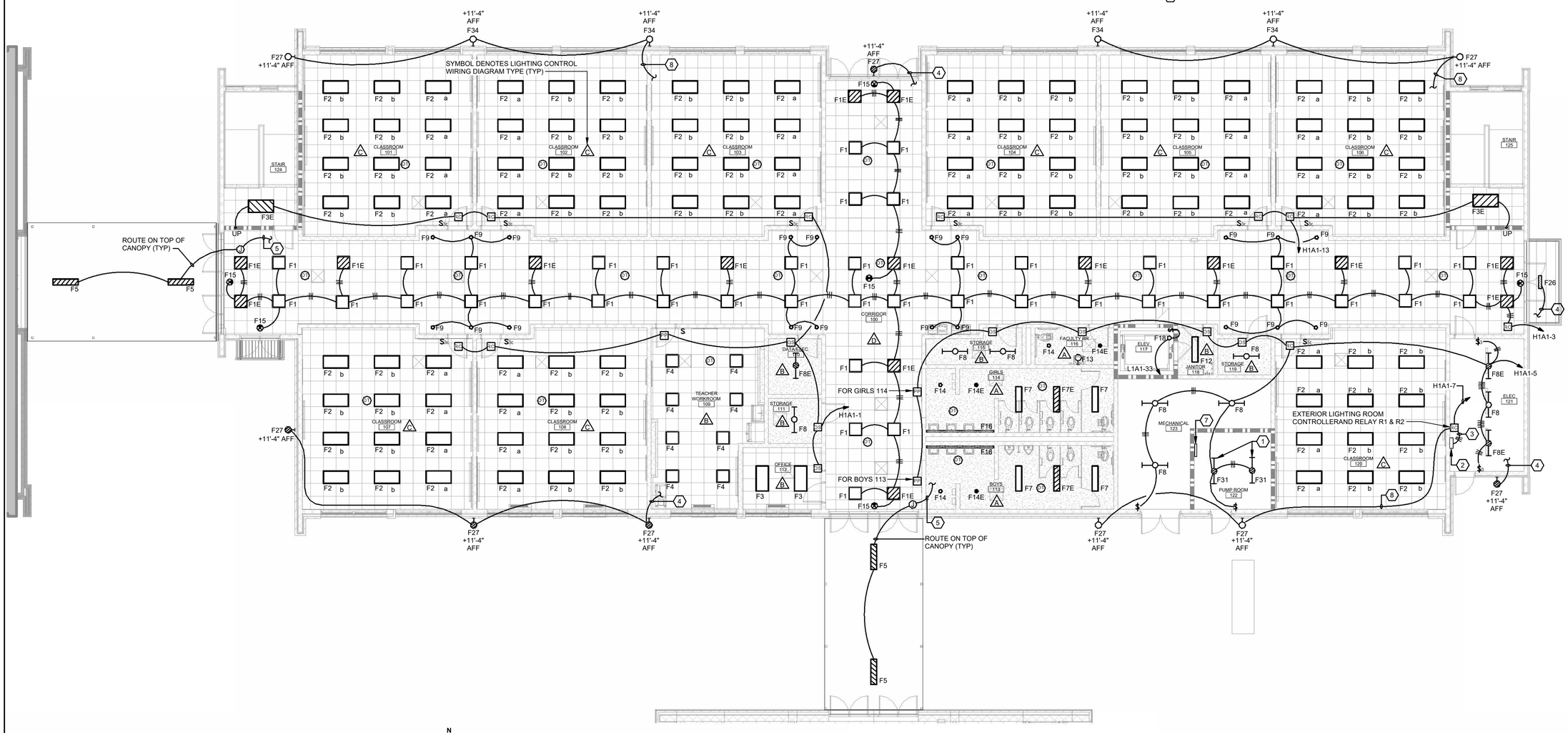
H/S

GENERAL NOTES:

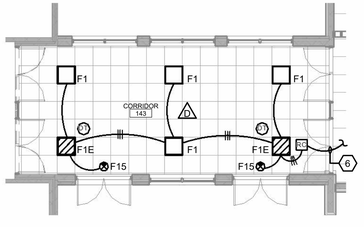
1. CONNECT EMERGENCY DRIVERS, EXIT SIGNS AND STAIR LIGHTS TO AN UNSWITCHED PHASE CONDUCTOR.
2. ALL CANOPY PENETRATIONS SHALL BE SEALED AND MADE WATERTIGHT.

REFERENCE NOTES:

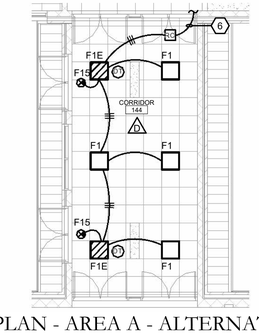
1. MOUNT REMOTE TEST SWITCH FOR 2 HR REMOTE EMERGENCY DRIVER IN PUMP ROOM. PROVIDE WIRING IN RACEWAY TO REMOTE DRIVER JUNCTION BOX.
2. 250W EMERGENCY LIGHTING INVERTER FOR EXTERIOR LIGHTS LVS #CEPS-250-W.
3. PROVIDE HOT, SWITCHED OUTPUT AND NEUTRAL PLUS GROUND TO INVERTER INPUT.
4. CONNECT TO EXTERIOR LIGHTING INVERTER OUTPUT.
5. CONNECT TO UNSWITCHED EXTERIOR LIGHTING CIRCUIT H1A1-7.
6. CONNECT TO UNSWITCHED CORRIDOR LIGHTING CIRCUIT H1A1-3.
7. PROVIDE MIN 24" X 24" X 4" JUNCTION BOX MOUNTING TWO F31 REMOTE EMERGENCY DRIVERS. PROVIDE 4 CLASS 1 INPUT CONDUCTORS (UNSWITCHED, SWITCHED, NEUTRAL AND GROUND) AND 4 CLASS 2 OUTPUT CONDUCTORS IN SEPARATE 3/4" CONDUITS BETWEEN DRIVER JUNCTION BOX AND EACH F31 LIGHT FIXTURE. MAINTAIN MINIMUM 1/2" PHYSICAL SEPARATION BETWEEN CLASS 1 AND CLASS 2 CONDUCTORS WITHIN JUNCTION BOX.
8. CONNECT TO RELAY R2 OUTPUT AT EXTERIOR LIGHTING ROOM CONTROLLER IN ELEC 121..



1 FIRST FLOOR PLAN - AREA A - LIGHTING
1/8" = 1'-0"

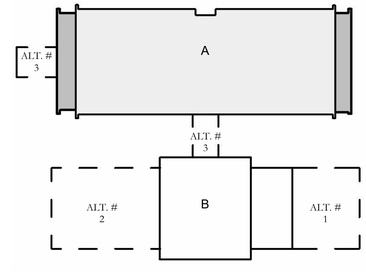


2 FIRST FLOOR PLAN - AREA A - ALTERNATE 3 - LIGHTING
1/8" = 1'-0"



3 FIRST FLOOR PLAN - AREA A - ALTERNATE #3 - LIGHTING
1/8" = 1'-0"

KEY PLAN



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10.1.24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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E201a

1ST FLOOR PLAN - AREA A - LIGHTING

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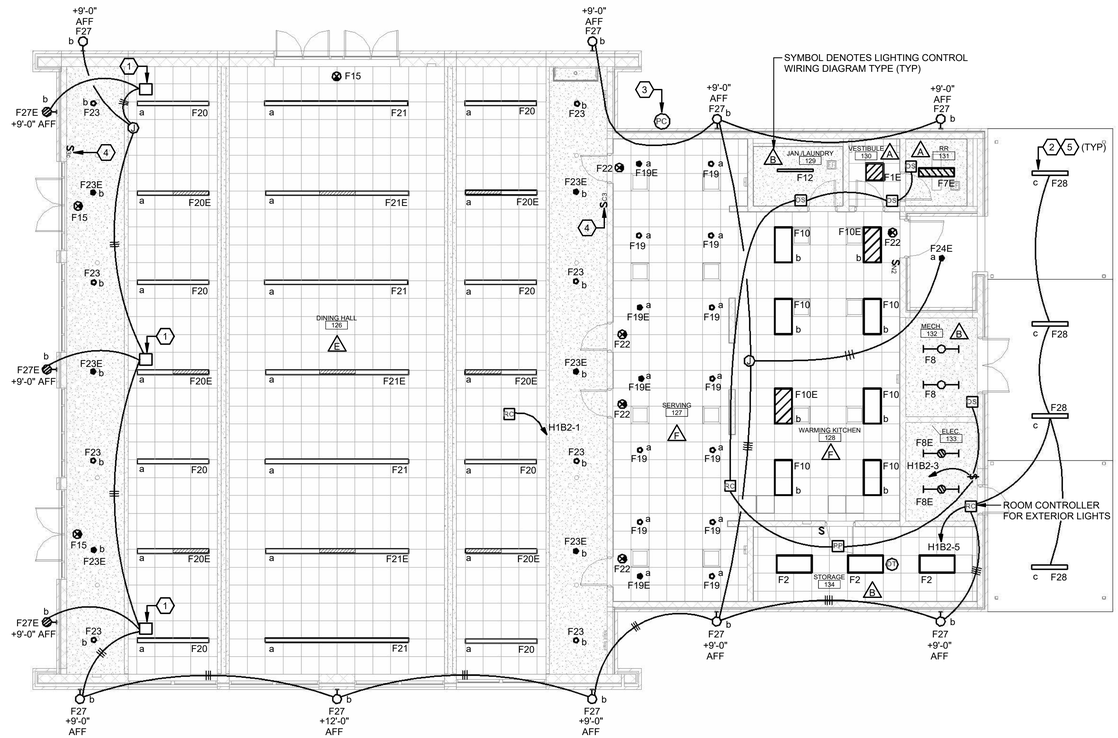
GENERAL NOTES:

1. CONNECT EMERGENCY DRIVERS, EXIT SIGNS AND STAIR LIGHTS TO AN UNSWITCHED PHASE CONDUCTOR.
2. ALL CANOPY PENETRATIONS SHALL BE SEALED AND MADE WATERTIGHT.

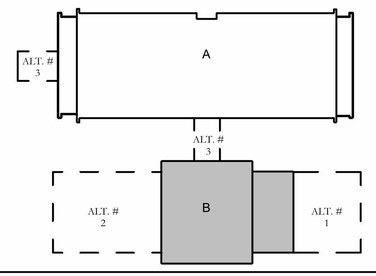
REFERENCE NOTES:

1. LOCATE REMOTE BATTERY BACKUP ABOVE CEILING IN ACCESSIBLE LOCATION.
2. SURFACE MOUNT LINEAR LIGHT TO CANOPY. ROUTE CONDUIT ABOVE CANOPY.
3. MOUNT PHOTOCELL HIGH ON NORTH WALL. CONNECT TO ROOM CONTROLLER FOR EXTERIOR LIGHTS IN ELECTRICAL ROOM.
4. PROVIDE LOCKABLE CLEAR PLASTIC COVER FOR DIGITAL SCENE SWITCH.
5. PROVIDE UNISTRUT SUPPORTS AND HARDWARE AS NECESSARY FOR MOUNTING LIGHT FIXTURE.



1 FIRST FLOOR PLAN - AREA B - BASE BID - LIGHTING
1/8" = 1'-0"

KEY PLAN



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10.1.26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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E201b

1ST FLOOR PLAN - AREA B - BASE BID - LIGHTING

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1" ½" 0" ½" 1"

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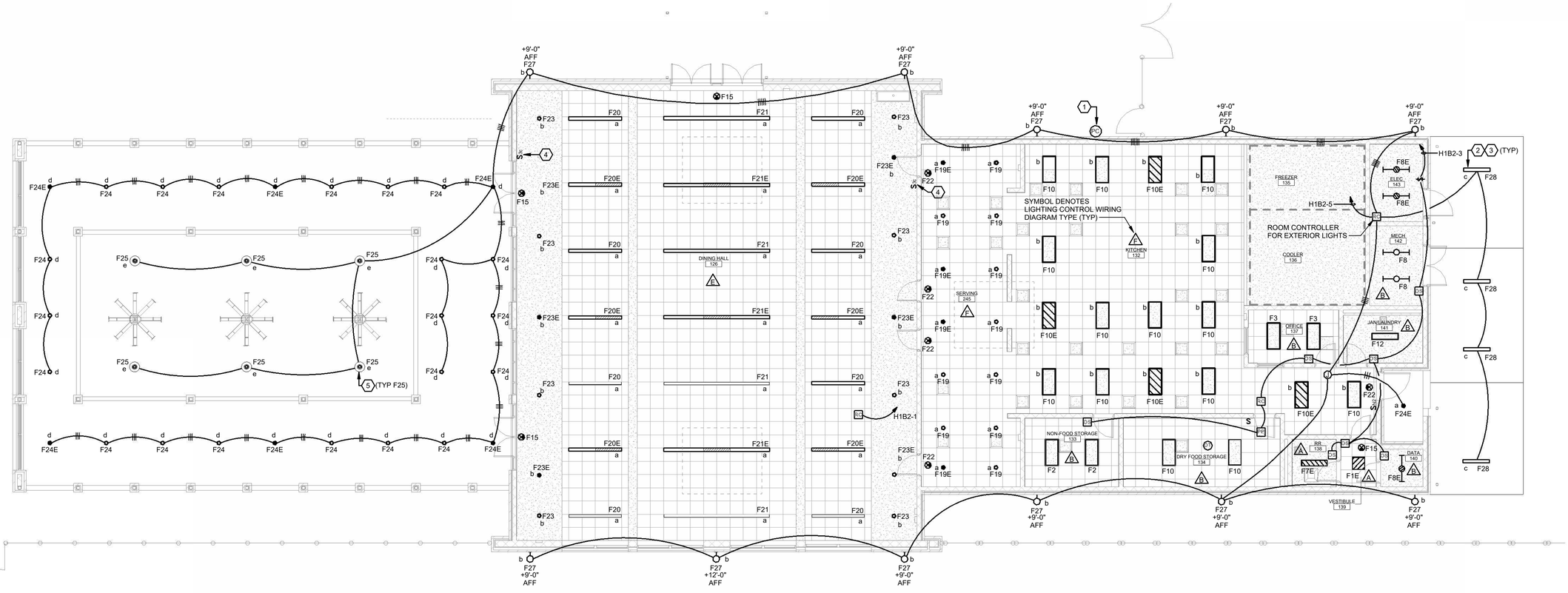
GENERAL NOTES:

1. CONNECT EMERGENCY DRIVERS, EXIT SIGNS AND STAIR LIGHTS TO AN UNSWITCHED PHASE CONDUCTOR.
2. ALL CANOPY PENETRATIONS SHALL BE SEALED AND MADE WATERTIGHT.

REFERENCE NOTES:

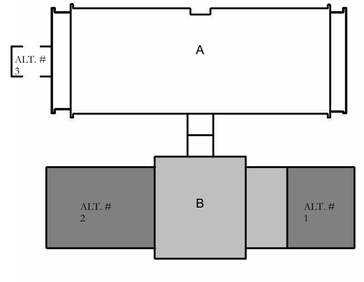
1. MOUNT PHOTOCELL HIGH ON NORTH WALL. CONNECT TO ROOM CONTROLLER FOR EXTERIOR LIGHTS IN ELECTRICAL ROOM.
2. SURFACE MOUNT LINEAR LIGHT TO CANOPY. ROUTE CONDUIT ABOVE CANOPY.
3. PROVIDE UNISTRUT SUPPORTS AND HARDWARE AS NECESSARY FOR MOUNTING LIGHT FIXTURE.
4. PROVIDE LOCKABLE CLEAR PLASTIC COVER FOR DIGITAL SCENE SWITCH.
5. PROVIDE 3/4" RIGID STEM TO PENDANT MOUNT FIXTURE AT 10' AFF.



1 FIRST FLOOR PLAN - AREA B - ALTERNATES - LIGHTING

1/8" = 1'-0"

KEY PLAN



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REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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E201c

1ST FLOOR PLAN - AREA B - ALTERNATES - LIGHTING

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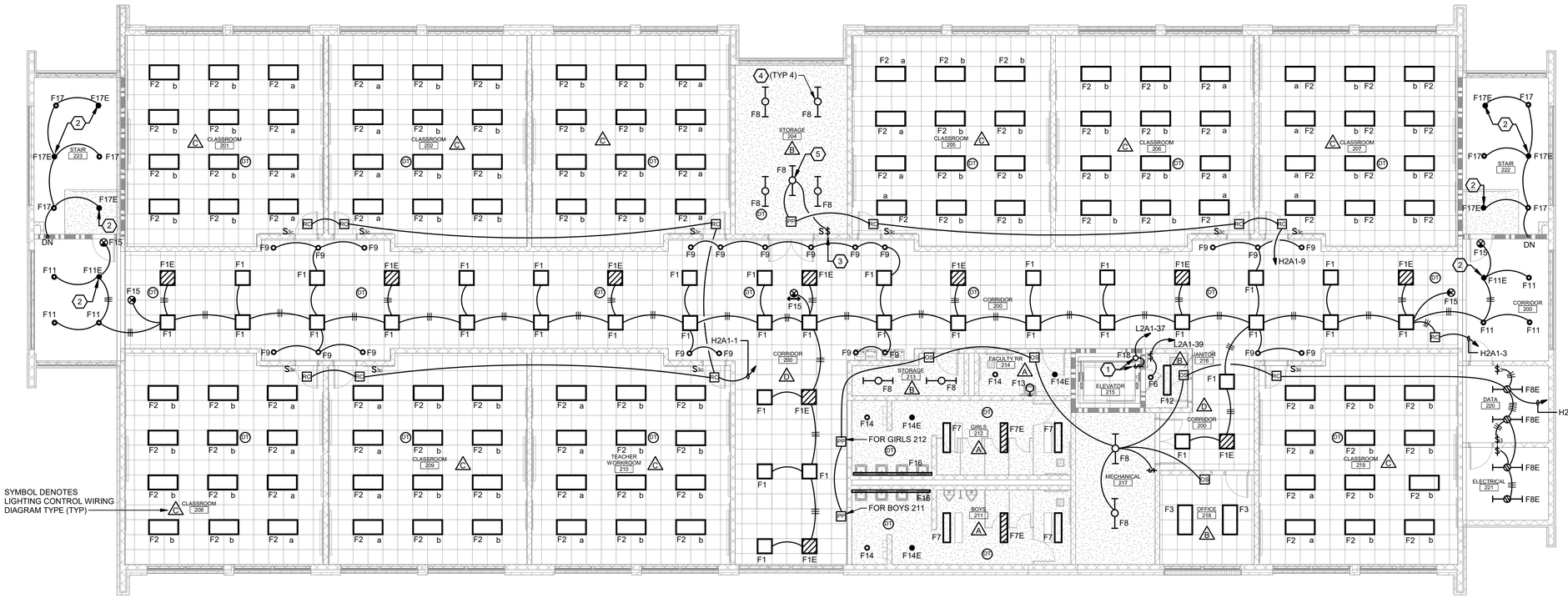
GENERAL NOTES:

1. CONNECT EMERGENCY DRIVERS, EXIT SIGNS AND STAIR LIGHTS TO AN UNSWITCHED PHASE CONDUCTOR.
2. ALL CANOPY PENETRATIONS SHALL BE SEALED AND MADE WATERTIGHT.

REFERENCE NOTES:

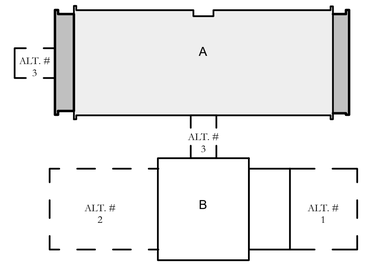
1. MOUNT AT THE TOP OF ELEVATOR HOISTWAY.
2. LOCATE EMERGENCY REMOTE TEST SWITCH ON WALL NEAR STAIR LANDING DOOR.
3. TOGGLE SWITCH FOR ATTIC LIGHT. PROVIDE NAMEPLATE STATING "ATTIC LIGHT".
4. SURFACE MOUNT ON GYPBOARD CEILING.
5. MOUNT TO STRUCTURE IN ATTIC NEAR ATTIC ACCESS STAIR.



1 SECOND FLOOR - AREA A - BASE BID - LIGHTING

1/8" = 1'-0"

KEY PLAN



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985.249.5706 WWW.CEG-ITL.COM
PROJECT NO: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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19452 LA-22, PONCHATOULA, LA 70454

STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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BID DOCUMENTS

E201d

2ND FLOOR PLAN - AREA A - LIGHTING

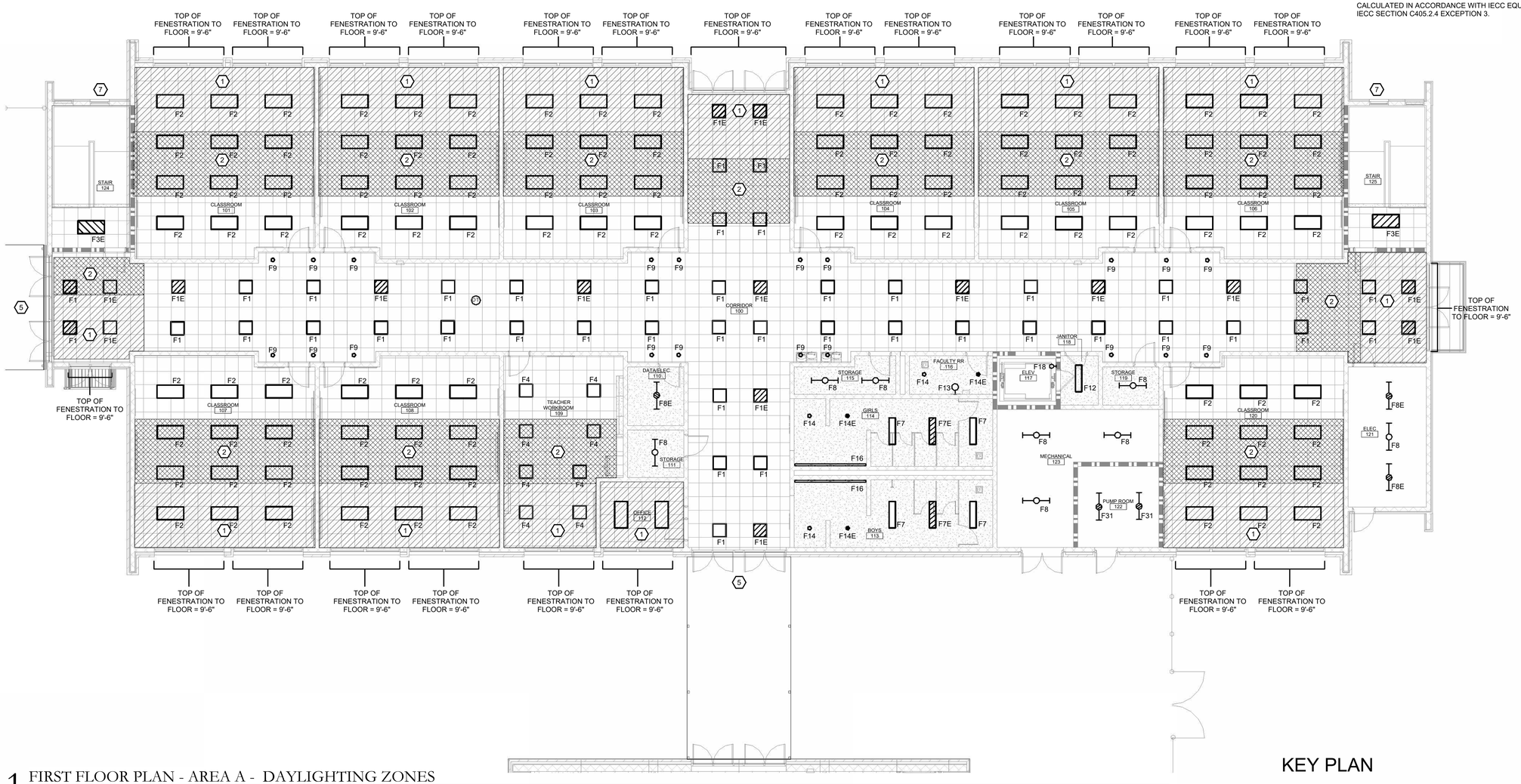
H/S

1" 1/2" 0" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

REFERENCE NOTES:

(SOME NOTES MAY NOT BE USED ON THIS SHEET)

1. TOTAL WATTAGE IN PRIMARY SIDELIT DAYLIGHT ZONE IS NOT GREATER THAT 150 WATTS. SEE IECC SECTION C405.2.4.1.
2. TOTAL WATTAGE IN PRIMARY AND SECONDARY SIDELIT DAYLIGHT ZONES IS NOT GREATER THAN 300 WATTS. SEE IECC SECTION C405.2.4.2.
3. THIS ROOM REQUIRED DAYLIGHT RESPONSIVE CONTROLS.
4. SIDELIT DAYLIGHT ZONE IS IN A GROUP A-2 OCCUPANCY. SEE IECC SECTION C405.2.4 EXCEPTION 2.
5. FENESTRATION DOES NOT RECEIVE DAYLIGHT BECAUSE OF BLOCKING BUILDING. SEE IECC SECTION C405.2.4.2.5.
6. DAYLIGHT ZONE NOT REQUIRED DUE TO PROTECTION FACTOR AT FENESTRATION. SEE IECC SECTION C405.2.4.2.7.
7. THE AREA OF FENESTRATION IS LESS THAN 24 SQ.FT. AND DOES NOT REQUIRE DAYLIGHT ZONE. SEE IECC SECTION C405.2.4.2.
8. STAIRWELLS DO NOT REQUIRE DAYLIGHTING CONTROLS. SEE IECC SECTION C405.2 EXCEPTION 2.
9. THE TOTAL CONNECTED LIGHTING POWER IS NOT GREATER THAN THE ADJUSTED INTERIOR LIGHTING POWER ALLOWANCE (LPAadj), CALCULATED IN ACCORDANCE WITH IECC EQUATION 4-9. SEE IECC SECTION C405.2.4 EXCEPTION 3.



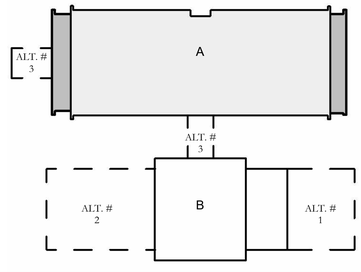
1 FIRST FLOOR PLAN - AREA A - DAYLIGHTING ZONES

1/8" = 1'-0"

LEGEND:

- PRIMARY DAYLIGHT ZONE
- SECONDARY DAYLIGHT ZONE

KEY PLAN



1" ½" 0" ½" 1"

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19452 LA-22, PONCHATOULA, LA 70454

STATE OF LOUISIANA — RAYMOND H. NOLAN II — REG. No. 27697 — REGISTERED PROFESSIONAL ENGINEER — IN MECHANICAL ENGINEERING — 10.1.24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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E202a

1ST FLOOR PLAN - AREA A - DAYLIGHTING

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201 HIGHLAND PARK PLAZA
COVINGTON, LA 70433
985.249.5706 WWW.CEG-ITL.COM
PROJECT NO.: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

H/S

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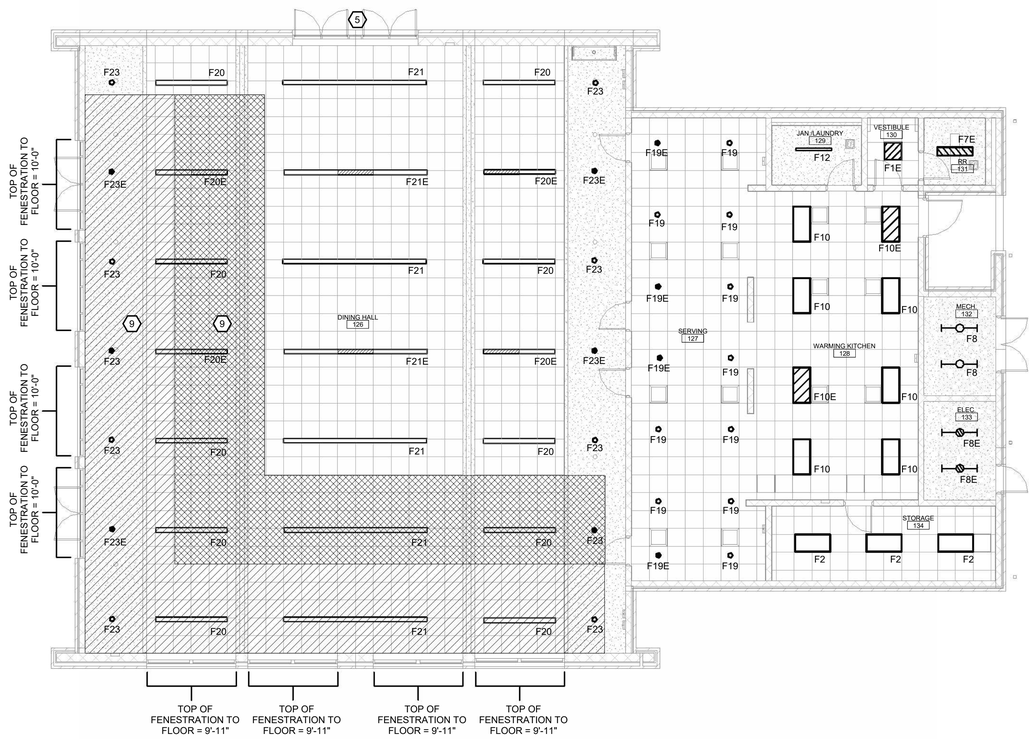


1 FIRST FLOOR PLAN - AREA B - BASE BID - DAYLIGHTING ZONES

1/8" = 1'-0"

REFERENCE NOTES:

(SOME NOTES MAY NOT BE USED ON THIS SHEET)

1. TOTAL WATTAGE IN PRIMARY SIDELIT DAYLIGHT ZONE IS NOT GREATER THAT 150 WATTS. SEE IECC SECTION C405.2.4.1.
2. TOTAL WATTAGE IN PRIMARY AND SECONDARY SIDELIT DAYLIGHT ZONES IS NOT GREATER THAN 300 WATTS. SEE IECC SECTION C405.2.4.2.
3. THIS ROOM REQUIRED DAYLIGHT RESPONSIVE CONTROLS.
4. SIDELIT DAYLIGHT ZONE IS IN A GROUP A-2 OCCUPANCY. SEE IECC SECTION C405.2.4 EXCEPTION 2.
5. FENESTRATION DOES NOT RECEIVE DAYLIGHT BECAUSE OF BLOCKING BUILDING. SEE IECC SECTION C405.2.4.2.5.
6. DAYLIGHT ZONE NOT REQUIRED DUE TO PROTECTION FACTOR AT FENESTRATION. SEE IECC SECTION C405.2.4.2.7.
7. THE AREA OF FENESTRATION IS LESS THAN 24 SQ.FT. AND DOES NOT REQUIRE DAYLIGHT ZONE. SEE IECC SECTION C405.2.4.2.
8. STAIRWELLS DO NOT REQUIRE DAYLIGHTING CONTROLS. SEE IECC SECTION C405.2 EXCEPTION 2.
9. THE TOTAL CONNECTED LIGHTING POWER IS NOT GREATER THAN THE ADJUSTED INTERIOR LIGHTING POWER ALLOWANCE (LPAadj), CALCULATED IN ACCORDANCE WITH IECC EQUATION 4-9. SEE IECC SECTION C405.2.4 EXCEPTION 3.

   LPAadj = [LPAnorm X (1.0 - 0.4 X UDZFA/TBFA)]

   WHERE:

   LPAnorm = 4444 W

   UDZFA = 2000 SF

   TBFA = 6172 SF

   THEN:

   LPAadj = [4444 X (1.0 - 0.4 X 2000/6172)]

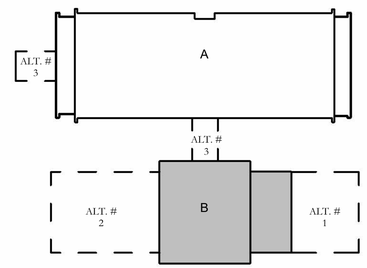
   LPAadj = 3868 W

LEGEND:

PRIMARY DAYLIGHT ZONE

SECONDARY DAYLIGHT ZONE

KEY PLAN



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PROJECT NO. HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING
10.1.24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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BID DOCUMENTS

E202b

1ST FLOOR PLAN - AREA B - BASE BID - DAYLIGHTING

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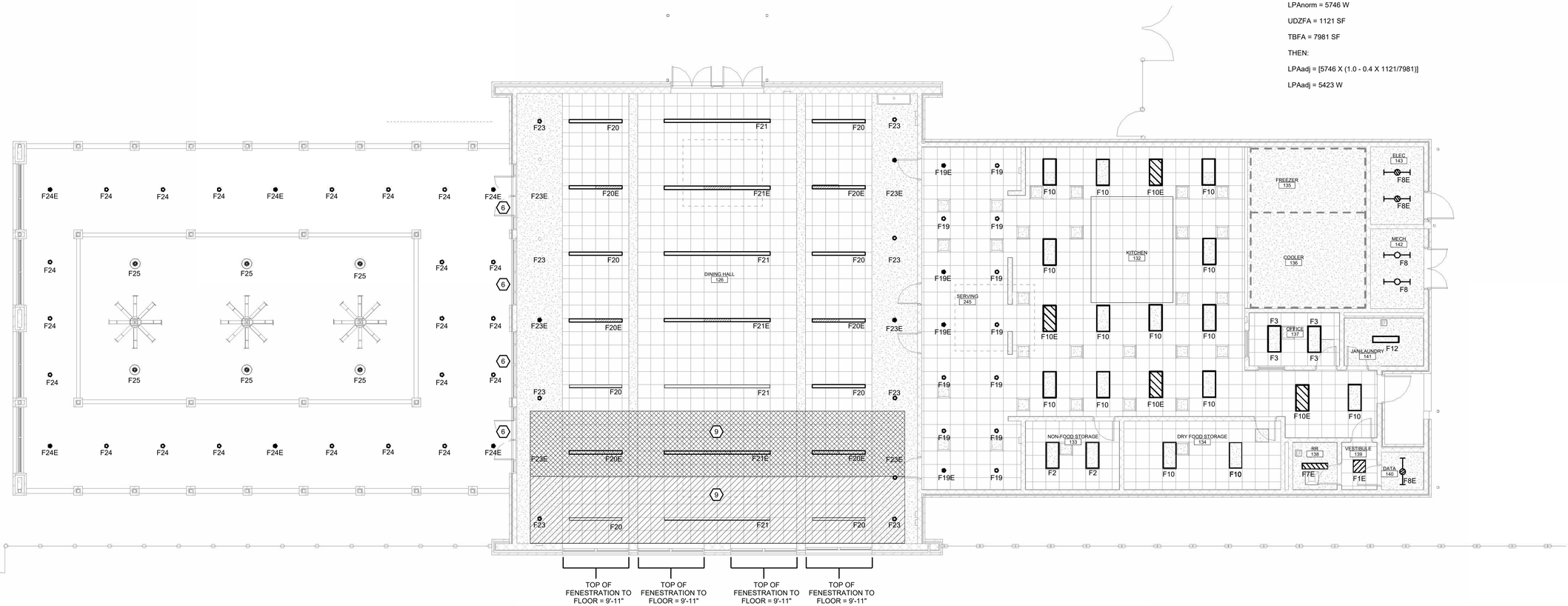
1"
½"
0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.



1 FIRST FLOOR PLAN - AREA B - ALTERNATES - DAYLIGHTING ZONES

1/8" = 1'-0"

REFERENCE NOTES:

(SOME NOTES MAY NOT BE USED ON THIS SHEET)

1. TOTAL WATTAGE IN PRIMARY SIDELIT DAYLIGHT ZONE IS NOT GREATER THAT 150 WATTS. SEE IECC SECTION C405.2.4.1.
2. TOTAL WATTAGE IN PRIMARY AND SECONDARY SIDELIT DAYLIGHT ZONES IS NOT GREATER THAN 300 WATTS. SEE IECC SECTION C405.2.4.2.
3. THIS ROOM REQUIRED DAYLIGHT RESPONSIVE CONTROLS.
4. SIDELIT DAYLIGHT ZONE IS IN A GROUP A-2 OCCUPANCY. SEE IECC SECTION C405.2.4 EXCEPTION 2.
5. FENESTRATION DOES NOT RECEIVE DAYLIGHT BECAUSE OF BLOCKING BUILDING. SEE IECC SECTION C405.2.4.2.5.
6. DAYLIGHT ZONE NOT REQUIRED DUE TO PROTECTION FACTOR AT FENESTRATION. SEE IECC SECTION C405.2.4.2.7.
7. THE AREA OF FENESTRATION IS LESS THAN 24 SQ.FT. AND DOES NOT REQUIRE DAYLIGHT ZONE. SEE IECC SECTION C405.2.4.2.
8. STAIRWELLS DO NOT REQUIRE DAYLIGHTING CONTROLS. SEE IECC SECTION C405.2 EXCEPTION 2.
9. THE TOTAL CONNECTED LIGHTING POWER IS NOT GREATER THAN THE ADJUSTED INTERIOR LIGHTING POWER ALLOWANCE (LPAadj), CALCULATED IN ACCORDANCE WITH IECC EQUATION 4-9. SEE IECC SECTION C405.2.4 EXCEPTION 3.

   LPAadj = [LPAnorm X (1.0 - 0.4 X UDZFA/TBFA)]

   WHERE:

   LPAnorm = 5746 W

   UDZFA = 1121 SF

   TBFA = 7981 SF

   THEN:

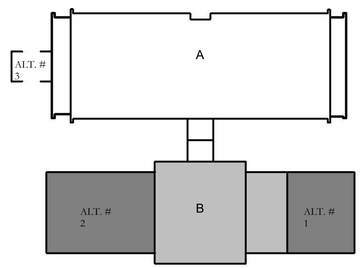
   LPAadj = [5746 X (1.0 - 0.4 X 1121/7981)]

   LPAadj = 5423 W

LEGEND:

- PRIMARY DAYLIGHT ZONE
- SECONDARY DAYLIGHT ZONE

KEY PLAN



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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
10.1.26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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PROJECT NO: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

E202c

1ST FLOOR PLAN - AREA B - ALTERNATE - DAYLIGHTING

H/S

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1" ½" 0" ½" 1"

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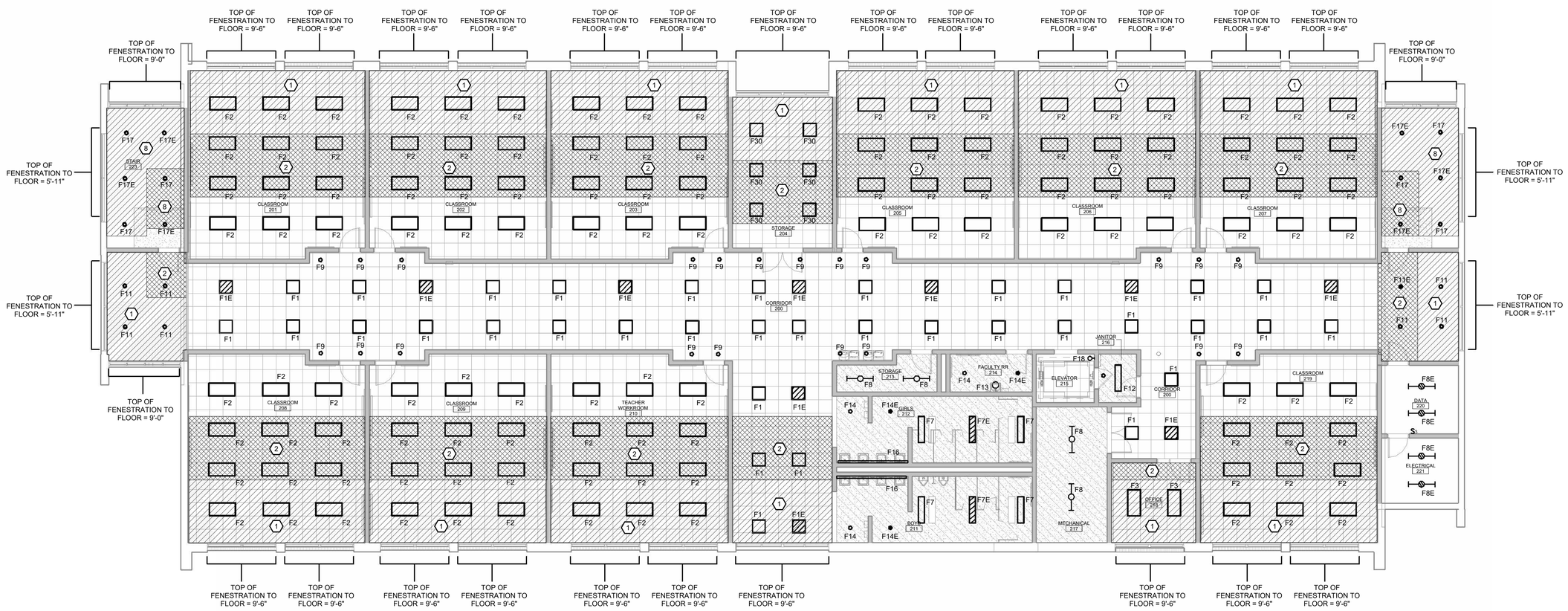
REFERENCE NOTES:

(SOME NOTES MAY NOT BE USED ON THIS SHEET)

1. TOTAL WATTAGE IN PRIMARY SIDELIT DAYLIGHT ZONE IS NOT GREATER THAT 150 WATTS. SEE IECC SECTION C405.2.4.1.
2. TOTAL WATTAGE IN PRIMARY AND SECONDARY SIDELIT DAYLIGHT ZONES IS NOT GREATER THAN 300 WATTS. SEE IECC SECTION C405.2.4.2.
3. THIS ROOM REQUIRED DAYLIGHT RESPONSIVE CONTROLS.
4. SIDELIT DAYLIGHT ZONE IS IN A GROUP A-2 OCCUPANCY. SEE IECC SECTION C405.2.4 EXCEPTION 2.
5. FENESTRATION DOES NOT RECEIVE DAYLIGHT BECAUSE OF BLOCKING BUILDING. SEE IECC SECTION C405.2.4.2.5.
6. DAYLIGHT ZONE NOT REQUIRED DUE TO PROTECTION FACTOR AT FENESTRATION. SEE IECC SECTION C405.2.4.2.7.
7. THE AREA OF FENESTRATION IS LESS THAN 24 SQ.FT. AND DOES NOT REQUIRE DAYLIGHT ZONE. SEE IECC SECTION C405.2.4.2.
8. STAIRWELLS DO NOT REQUIRE DAYLIGHTING CONTROLS. SEE IECC SECTION C405.2 EXCEPTION 2.
9. THE TOTAL CONNECTED LIGHTING POWER IS NOT GREATER THAN THE ADJUSTED INTERIOR LIGHTING POWER ALLOWANCE (LPAadj), CALCULATED IN ACCORDANCE WITH IECC EQUATION 4-9. SEE IECC SECTION C405.2.4 EXCEPTION 3.



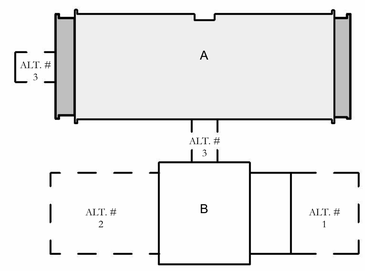
1 SECOND FLOOR - AREA A - DAYLIGHTING ZONES

1/8" = 1'-0"

LEGEND:

- PRIMARY DAYLIGHT ZONE
- SECONDARY DAYLIGHT ZONE

KEY PLAN



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PROJECT NO: HS181-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

1" ½" 0" ½" 1"

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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER IN
MECHANICAL ENGINEERING
10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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E202d

2ND FLOOR PLAN - AREA A - DAYLIGHTING

H/S

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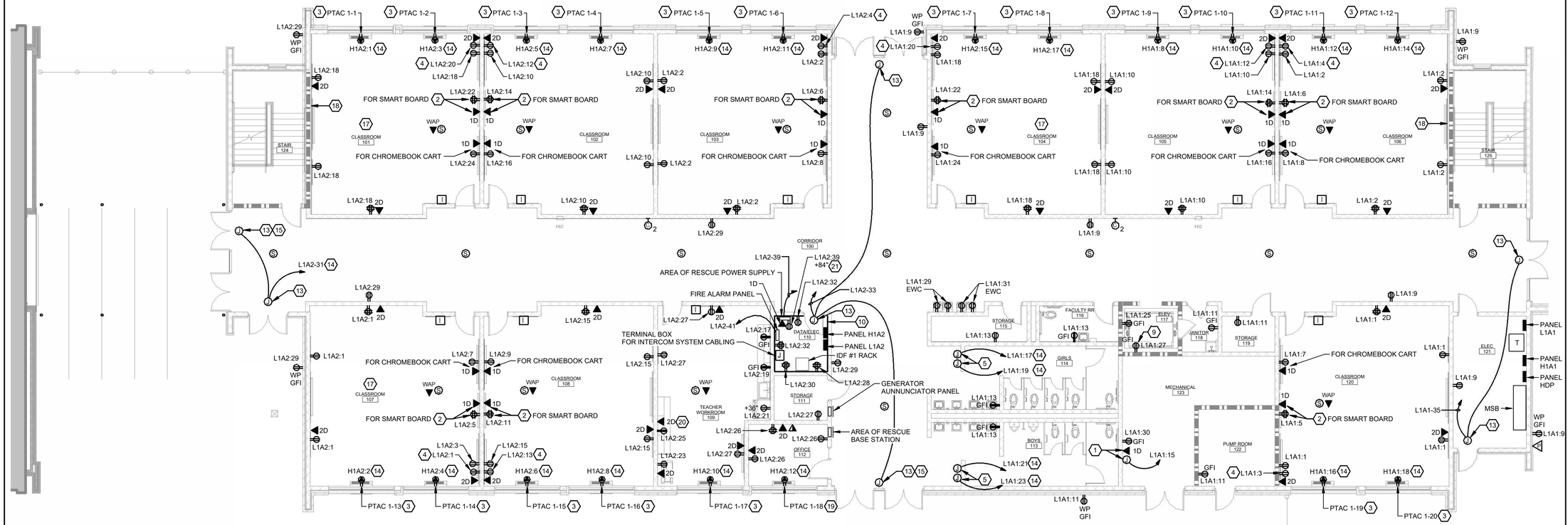
GENERAL NOTES:

1. ROUTE DATA DROPS ON THIS SHEET TO IDF #1.
2. PROVIDE A 10 FT SERVICE LOOP ABOVE CEILING FOR ALL CAT 6 CABLING SERVING WAPS AND CEILING MOUNTED CAMERAS.

REFERENCE NOTES:

1. FOR HVAC CONTROL PANEL.
2. MOUNT DEVICE BEHIND SMART BOARD AT APPROXIMATELY 5'-6" AFF, AND 4 FT OFF CENTER POINT OF SMART BOARD. VERIFY LOCATION WITH ARCHITECT AND COORDINATE WITH SMART BOARD MOUNTING BRACKET PRIOR TO ROUGH-IN.
3. NEMA 7-30R FOR PTAC. COORDINATE LOCATION AND CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN .
4. DEDICATED OUTLET AND FACE PLATE IN CLASSROOM SHALL BE GRAY.
5. PROVIDE HARDWIRE CONNECTION TO HAND DRYER. VERIFY MOUNTING HEIGHT WITH ARCHITECT.
6. MOUNT AT TOP OF HOISTWAY.
7. 60/3/60 NEMA 3R FOR ELEVATOR. DISCONNECT SHALL BE LOCKABLE IN THE OPEN POSITION AND PROVIDED WITH N.O. AND N.C. AUX CONTACTS WITH WIRING IN RACEWAY TO ELEVATOR CONTROLLER. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER. PROVIDE FINAL CONNECTION TO ELEVATOR CONTROLLER.
8. 30/1/20 FOR ELEVATOR CAB POWER. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER. PROVIDE FINAL CONNECTION TO ELEVATOR CONTROLLER.
9. SINGLE GFI RECEPTACLE IN WEATHERPROOF BOX FOR SUMP PUMP. INSTALL PER ELEVATOR MANUFACTURER.
10. 3/4" X 4' X 8' FIRE RATED PLYWOOD (AC GRADE) BACKBOARD WITH (2) COATS OF WHITE FIRE RETARDANT PAINT. PROVIDE GROUND BAR MOUNTED AT 8' AFF WITH #4 AWG GROUND TO MAIN ELECTRICAL GROUND POINT.
11. 1 1/4"C-3#4, #4 GND.
12. 120V CIRCUIT FOR ELEVATOR SHUNT TRIP. ROUTE THRU FIRE ALARM CONTROL MODULE FOR SHUTDOWN FUNCTION TO SHUNT TRIP COIL ON ELEVATOR CIRCUIT BREAKER IN PANEL.
13. 120V FOR ACCESS CONTROL POWER SUPPLY.
14. 3/4"C-2#10, #10 GND.
15. REMOVE UNDER ALTERNATE 3 WORK.
16. 120V POWER FOR DOOR HOLD OPENS. ROUTE THRU FIRE ALARM CONTROL MODULES.
17. PROVIDE #10 AWG HOMERUN CONDUCTORS FOR ALL 120V BRANCH CIRCUITS IN THIS ROOM.
18. ROUTE CONDUIT FOR DEVICES IN CHASE WALL. DO NOT ROUTE IN THE FIRE RATED STAIR WALL.
19. NEMA 7-20R FOR PTAC. COORDINATE LOCATION AND CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN .
20. MOUNT ABOVE COUNTER AT SAME HEIGHT AS RECEPTACLE.
21. RECEPTACLE FOR AREA OF RESCUE CELLULAR DIALER.

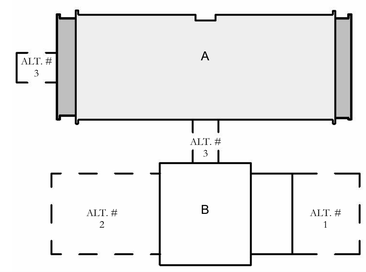


1 FIRST FLOOR PLAN - AREA A - POWER & COMMUNICATION
1/8" = 1'-0"

2 1ST FLOOR PLAN AREA A - POWER & COMMUNICATION - ALTERNATE 3
1/8" = 1'-0"

3 1ST FLOOR PLAN AREA A - POWER & COMMUNICATION - ALTERNATE 3
1/8" = 1'-0"

KEY PLAN



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10.1.24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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E203a

1ST FLOOR PLAN - AREA A - POWER & COMMUNICATION

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985.249.5706 WWW.CEG-ITL.COM
PROJECT NO.: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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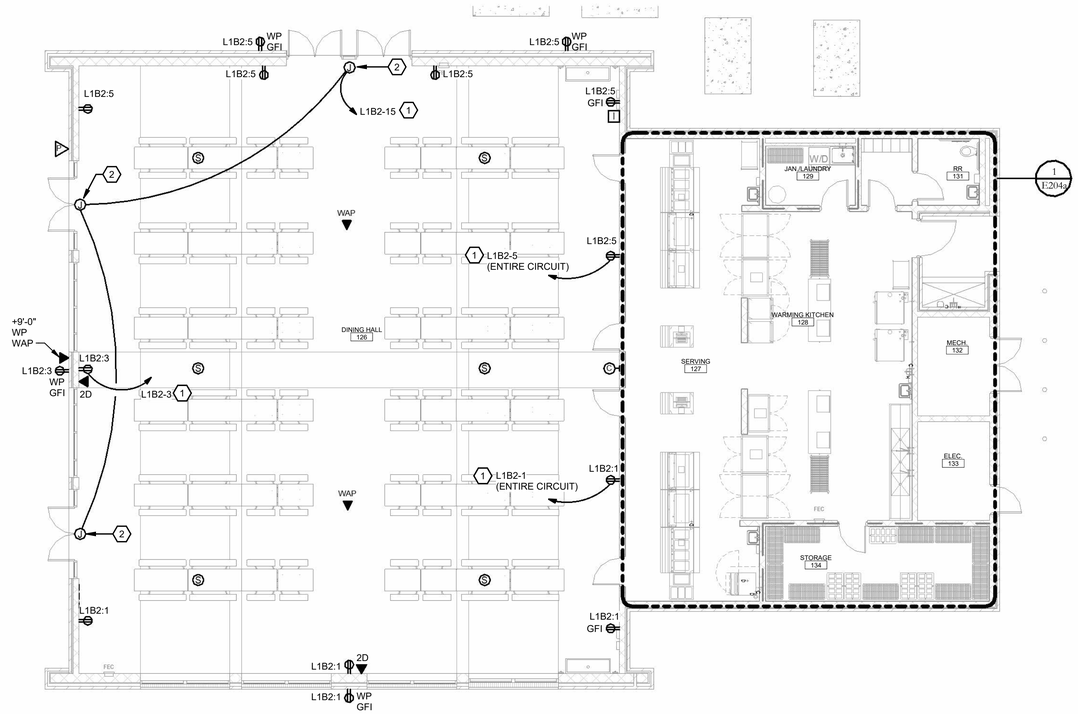
GENERAL NOTES:

1. ROUTE DATA DROPS ON THIS SHEET TO IDF #3.
2. PROVIDE A 10 FT SERVICE LOOP ABOVE CEILING FOR ALL CAT 6 CABLING SERVING WAPS AND CEILING MOUNTED CAMERAS.

REFERENCE NOTES:

1. 3/4"C-2#10, #10 GND.
2. 120V POWER FOR ACCESS CONTROL POWER SUPPLY.

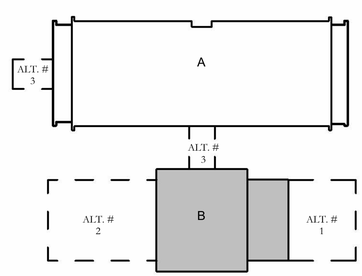


1 FIRST FLOOR PLAN - AREA B - BASE BID - POWER & COMMUNICATION

1/8" = 1'-0"

N

KEY PLAN



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PONCHATOULA HIGH SCHOOL 18 CLASSROOM ADD. & CAFETERIA

19452 LA-22, PONCHATOULA, LA 70454

STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
10.1.24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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201 HIGHLAND PARK PLAZA
COVINGTON, LA 70433
985.249.5706 WWW.CEG-ITL.COM
PROJECT NO: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

E203b

1ST FLOOR PLAN - AREA B - BASE BID - POWER & COMMUNICATION

H/S

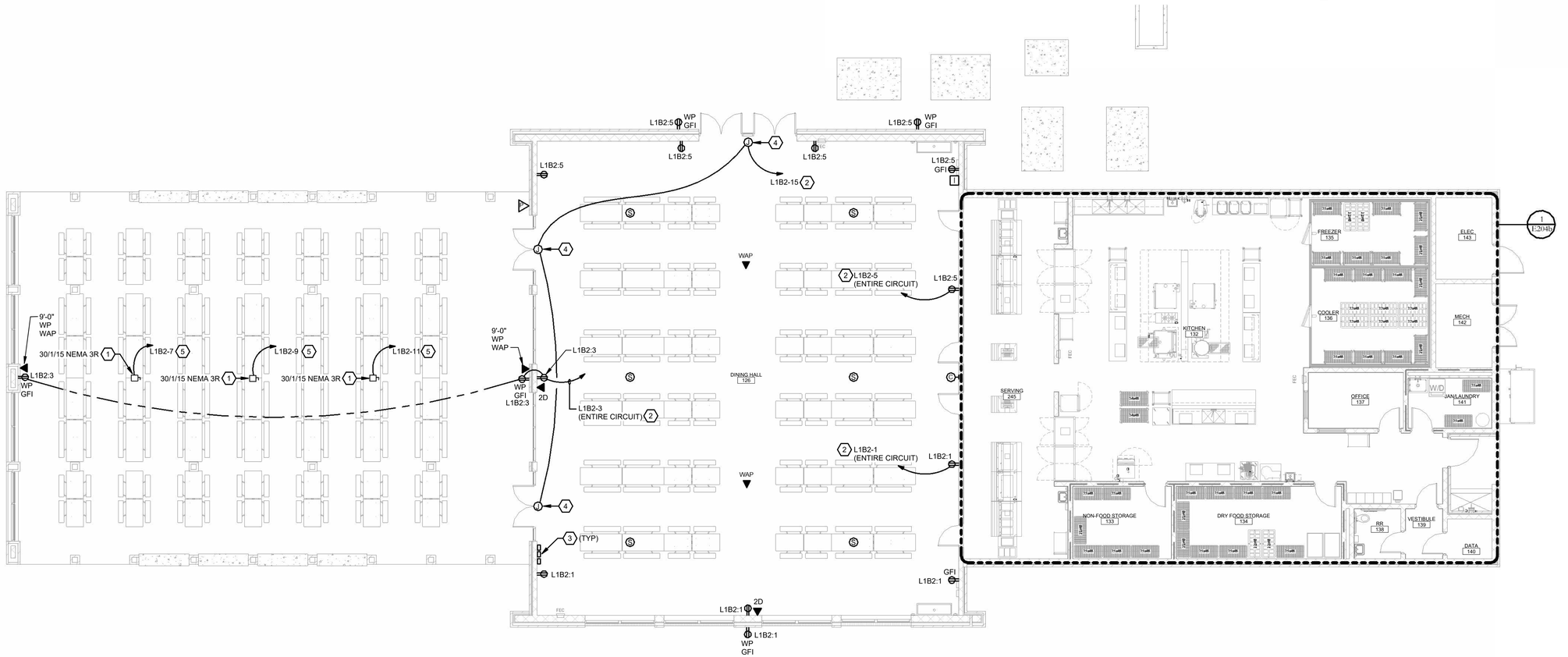
1"
½"
0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

GENERAL NOTES:

1. ROUTE DATA DROPS ON THIS SHEET TO IDF #3.
2. PROVIDE A 10 FT SERVICE LOOP ABOVE CEILING FOR ALL CAT 6 CABLING SERVING WAPS AND CEILING MOUNTED CAMERAS.

REFERENCE NOTES:

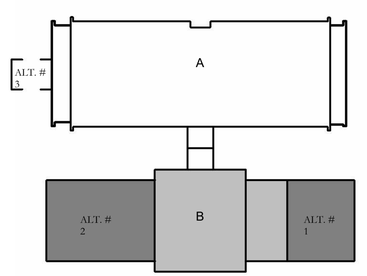
1. CONNECT TO HVLS FAN.
2. 3/4"C-2#10, #10 GND.
3. LOW VOLTAGE CONTROL STATION FOR HVLS FANS. PROVIDE CAT 6 CABLE IN 3/4" CONDUIT TO RESPECTIVE FAN.
4. 120V POWER FOR ACCESS CONTROL POWER SUPPLY.
5. 3/4"C-2#8, #8 GND.



1 FIRST FLOOR PLAN - AREA B - ALTERNATES - POWER & COMMUNCIATIONS

1/8" = 1'-0"

KEY PLAN



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PONCHATOULA HIGH SCHOOL 18 CLASSROOM ADD. & CAFETERIA

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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
10.1.24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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E203c

1ST FLOOR PLAN - AREA B - ALTERNATES - POWER & COMMUNICATION

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PROJECT NO: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

1" ½" 0" ½" 1"

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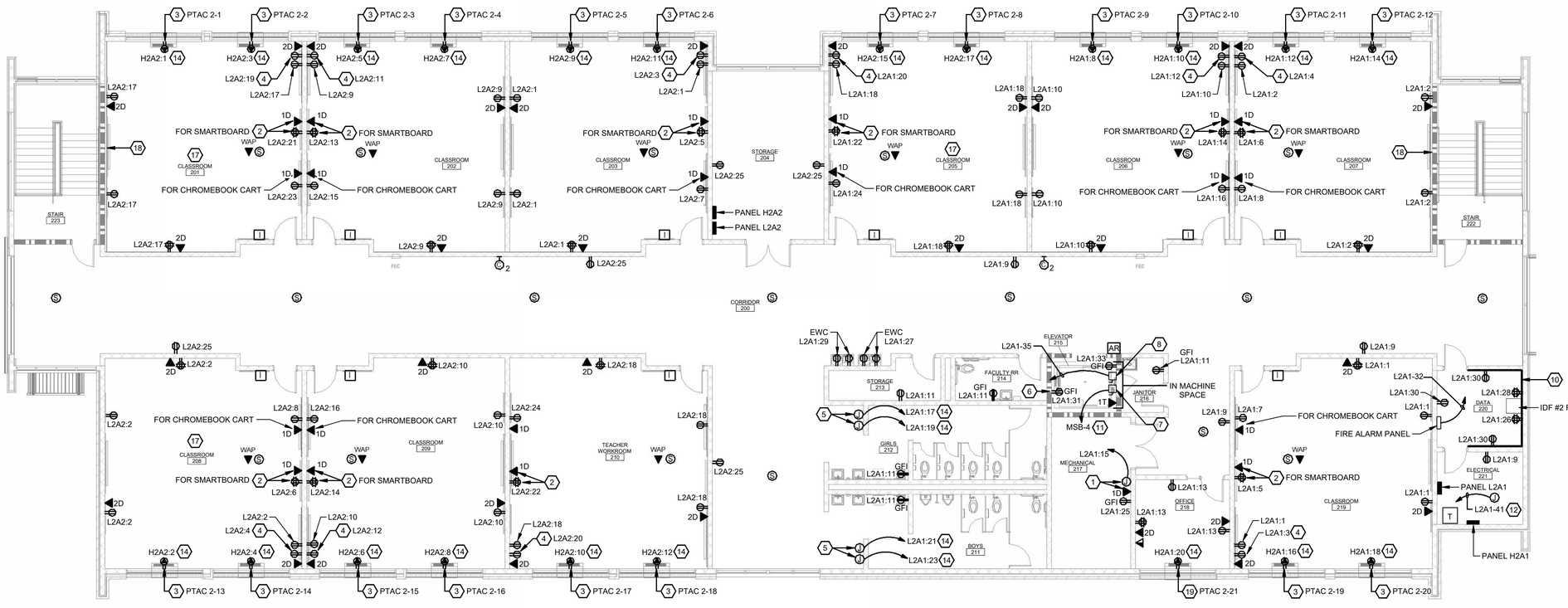
GENERAL NOTES:

1. ROUTE DATA DROPS ON THIS SHEET TO IDF #2.
2. PROVIDE A 10 FT SERVICE LOOP ABOVE CEILING FOR ALL CAT 6 CABLING SERVING WAPS AND CEILING MOUNTED CAMERAS.

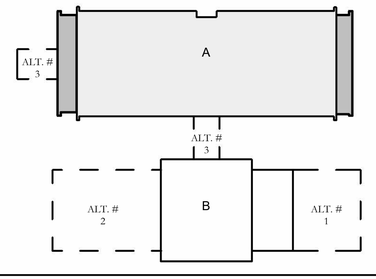
REFERENCE NOTES:

1. FOR HVAC CONTROL PANEL.
2. MOUNT DEVICE BEHIND SMART BOARD AT APPROXIMATELY 5'-6" AFF, AND 4 FT OFF CENTER POINT OF SMART BOARD. VERIFY LOCATION WITH ARCHITECT AND COORDINATE WITH SMART BOARD MOUNTING BRACKET PRIOR TO ROUGH-IN.
3. NEMA 7-30R FOR PTAC. COORDINATE LOCATION AND CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN .
4. DEDICATED OUTLET AND FACE PLATE IN CLASSROOM SHALL BE GRAY.
5. PROVIDE HARDWIRE CONNECTION TO HAND DRYER. VERIFY MOUNTING HEIGHT WITH ARCHITECT.
6. MOUNT AT TOP OF HOISTWAY.
7. 60/3/60 NEMA 3R FOR ELEVATOR. DISCONNECT SHALL BE LOCKABLE IN THE OPEN POSITION AND PROVIDED WITH N.O. AND N.C. AUX CONTACTS WITH WIRING IN RACEWAY TO ELEVATOR CONTROLLER. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER. PROVIDE FINAL CONNECTION TO ELEVATOR CONTROLLER.
8. 30/1/20 FOR ELEVATOR CAB POWER. COORDINATE LOCATION WITH ELEVATOR MANUFACTURER. PROVIDE FINAL CONNECTION TO ELEVATOR CONTROLLER.
9. SINGLE GFI RECEPTACLE IN WEATHERPROOF BOX FOR SUMP PUMP. INSTALL PER ELEVATOR MANUFACTURER.
10. 3/4" X 4' X 8' FIRE RATED PLYWOOD (AC GRADE) BACKBOARD WITH (2) COATS OF WHITE FIRE RETARDANT PAINT. PROVIDE GROUND BAR MOUNTED AT 8' AFF WITH #4 AWG GROUND TO MAIN ELECTRICAL GROUND POINT.
11. 1 1/4"C-3#4, #4 GND.
12. 120V CIRCUIT FOR ELEVATOR SHUNT TRIP. ROUTE THRU FIRE ALARM CONTROL MODULE FOR SHUTDOWN FUNCTION TO SHUNT TRIP COIL ON ELEVATOR CIRCUIT BREAKER IN PANEL.
13. 120V FOR ACCESS CONTROL POWER SUPPLY.
14. 3/4"C-2#10, #10 GND.
15. REMOVE UNDER ALTERNATE 3 WORK.
16. 120V POWER FOR DOOR HOLD OPENS. ROUTE THRU FIRE ALARM CONTROL MODULES.
17. PROVIDE #10 AWG HOMERUN CONDUCTORS FOR ALL 120V BRANCH CIRCUITS IN THIS ROOM.
18. ROUTE CONDUIT FOR DEVICES IN CHASE WALL. DO NOT ROUTE IN THE FIRE RATED STAIR WALL.
19. NEMA 7-20R FOR PTAC. COORDINATE LOCATION AND CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN .
20. MOUNT ABOVE COUNTER AT SAME HEIGHT AS RECEPTACLE.
21. RECEPTACLE FOR AREA OF RESCUE CELLULAR DIALER.



1 2ND FLOOR PLAN - AREA A - POWER & COMMUNCIATION
1/8" = 1'-0"

KEY PLAN



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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
10.1.24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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E203d

2ND FLOOR PLAN - AREA A - POWER & COMMUNICATION

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COVINGTON, LA 70433
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PROJECT NO. HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

H/S

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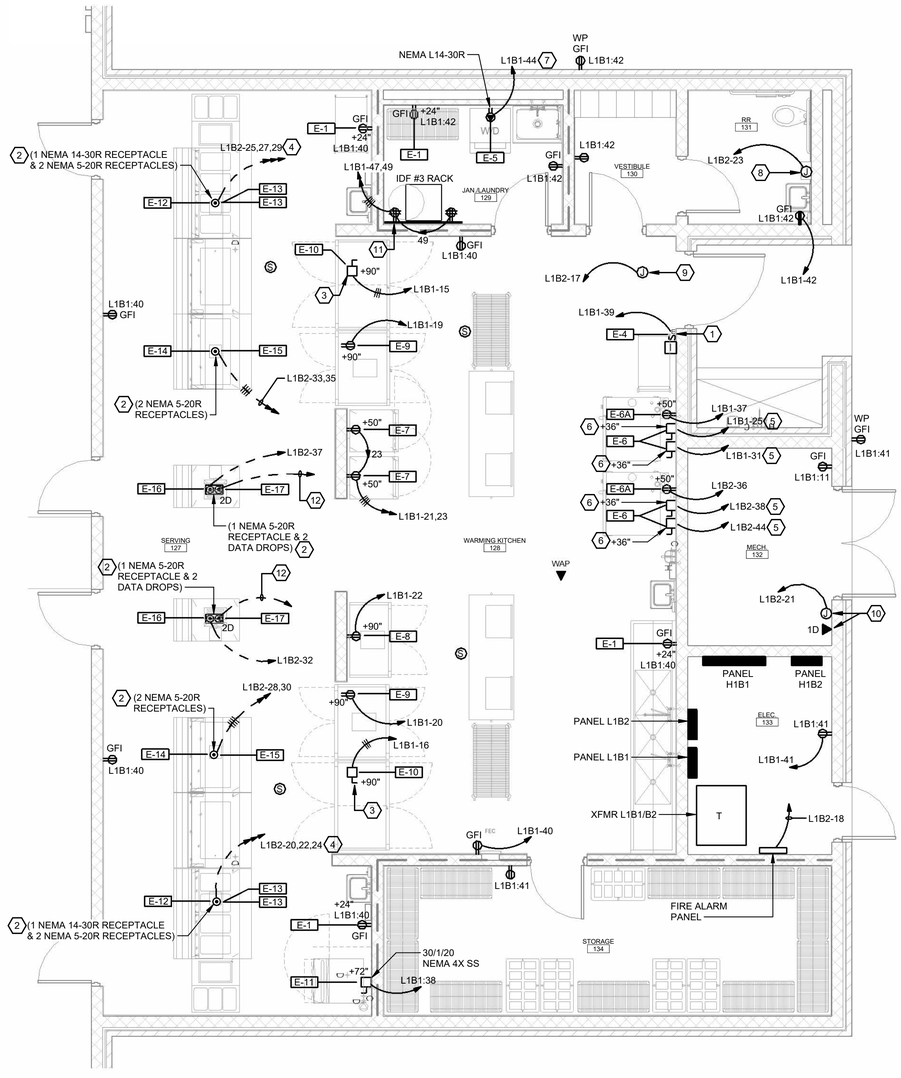

1 FIRST FLOOR PLAN - AREA B - BASE BID - ENLARGED KITCHEN - POWER & COMMUNICATION

1/4" = 1'-0"

ELECTRICAL ROUGH-IN DATA SCHEDULE	
CONN. NO.	DESCRIPTION OF UTILITY REQUIREMENTS
E-1	20A 120V CO 24" AFF
E-2	20A 120V CO 46" AFF
E-3	20A 120V CO 50" AFF
E-4	5.1A 120V 90" AFF FOR AIR DOOR
E-5	30A 120/208V 36" AFF FOR STACKED WASHER/DRYER - NEMA L14-30R RECEPTACLE REQUIRED
E-6	70A 208V 3-PH (CIRCUIT) 36" AFF FOR ELECTRIC COMBI-OVEN/STEAMER SECTION
E-6A	1.6A 120V 50" AFF FOR EACH VENT OF COMBI-OVEN/STEAMER - NEMA 5-20R REQUIRED
E-7	16A 120V 50" AFF FOR MOBILE PROOFER HEATED CABINET - NEMA 5-20R REQUIRED
E-8	11.1A 120V 90" AFF FOR REACH-IN REFRIGERATOR - NEMA 5-20R RECEPTACLE REQUIRED
E-9	11.1A 120V 90" AFF FOR EACH PASS-THRU REFRIGERATOR - NEMA 5-20R REQUIRED
E-10	14.4A 208V 1-PH (3-WIRES+GROUND) 90" AFF FOR EACH PASS-THRU WARMER
E-11	11.5A 120V 72" AFF FOR ICE MACHINE
E-12	18A 208V 1-PH 4" AFF FOR BUILT-IN NEMA 14-30 RECEPTACLE OF STAINLESS STEEL
	FLOOR OUTLET BOX FOR HOT FOOD WELLS, HEAT LAMP AND LED LIGHTS
E-13	8A 120V 4" AFF FOR EACH BUILT-IN NEMA 5-20 RECEPTACLE OF STAINLESS STEEL FLOOR
	OUTLET BOX FOR FROST TOP AND LED LIGHTS
E-14	12.2A 120V 4" AFF FOR BUILT-IN NEMA 5-20 RECEPTACLE OF STAINLESS STEEL FLOOR
	OUTLET BOX FOR HOT-TOP, HEAT LAMP AND LED LIGHTS OF FOOD GUARD
E-15	2.5A 120V 4" AFF FOR BUILT-IN NEMA 5-20 RECEPTACLE OF STAINLESS STEEL FLOOR
	OUTLET BOX FOR MOBILE MILK COOLER
E-16	20A 120V COMPUTER GRADE CIRCUIT 4" AFF FOR BUILT-IN RECEPTACLE (NEMA 5-20R) OF
	STAINLESS STEEL FLOOR OUTLET BOX FOR EACH MOBILE CASHIER COUNTER
E-17	DATA CIRCUIT 4" AFF FOR FOR BUILT-IN DATA OUTLET (CAT-6) OF STAINLESS STEEL
	FLOOR OUTLET BOX FOR EACH P.O.S. UNIT

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL POWER CONNECTIONS TO FOOD SERVICE EQUIPMENT.
2. ELECTRICAL CONTRACTOR SHALL INSTALL ALL CORD/PLUG ASSEMBLIES FURNISHED BY DIVISION 11 TO FOOD SERVICE EQUIPMENT.
3. WALL MOUNTED OUTLET/JUNCTION BOXES SHALL BE RECESSED WITHIN BUILDING WALL.
4. OUTLET/JUNCTION BOXES NOT LOCATED ON WALLS IN KITCHEN (WET) AREA AND LOCATED WITHIN 4 FEET OF THE FLOOR SHALL BE 316 STAINLESS STEEL FD TYPE WITH THREADED HUBS AND GASKETED COVERS. PROVIDE 316 STAINLESS STEEL UNISTRUT SUPPORT SECURED TO FLOOR TO SUPPORT BOX. USE LIQUIDTIGHT FLEX METAL CONDUIT FOR FINAL CONNECTIONS TO EQUIPMENT/DEVICES. WHERE CONDUIT STUBS UP THRU FLOOR USE PVC SCHEDULE 80 ELBOWS WITH TERMINAL ADAPTER AT BOX. USE STAINLESS STEEL CONNECTORS AT BOX FOR LIQUIDTIGHT CONNECTIONS.
5. WHERE NECESSARY, USE PVC CORROSION PROTECTION TAPE OR NON-METALLIC ISOLATORS TO PREVENT GALVANIC CORROSION WHERE DISSIMILAR METALS COME IN CONTACT.
6. ROUTE ALL DATA DROPS IN THIS AREA TO IDF #3 IN ELECTRICAL ROOM 132.

REFERENCE NOTES:

1. MANUAL MOTOR RATED TOGGLE SWITCH DISCONNECT (20A/120V) LOCKABLE IN OFF POSITION. INSTALL MICRO SWITCH, FURNISHED BY MANUFACTURER, AND PROVIDE FINAL HARDWIRE CONNECTION TO AIR DOOR VIA MICRO SWITCH CONTROL.
2. STAINLESS STEEL FLOOR MOUNTED OUTLET BOX, RECEPTACLES, AND DATA DROPS FURNISHED BY DIVISION 11, INSTALLED BY DIVISION 26.
3. 30/2/20 NEMA 4X STAINLESS STEEL.
4. 1"C-4#12 (2 NEMA 5-20R), 3#8 (NEMA 14-30R), #10 GND.
5. 1 1/4"C-3#4, #8 GND
6. 100/3/70 NEMA 4X STAINLESS STEEL
7. 3/4"C-3#10, #10 GND
8. CONNECT TO HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
9. 120V POWER FOR ACCESS CONTROL POWER SUPPLY.
10. FOR HVAC CONTROL PANEL.
11. 3/4" X 4' X 8' FIRE RATED PLYWOOD (AC GRADE) BACKBOARD WITH (2) COATS OF WHITE FIRE RETARDANT PAINT. PROVIDE GROUND BAR MOUNTED AT 8' AFF WITH #4 AWG GROUND TO MAIN ELECTRICAL GROUND POINT.
12. 1" CONDUIT FOR DATA CABLING. ROUTED UNDERGROUND TO IDF RACK.

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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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COVINGTON, LA 70433
985.249.5706 WWW.CEG-ITL.COM
PROJECT NO.: HS180 1-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

E204a

ENLARGED KITCHEN PLAN - BASE BID - ENLARGED KITCHEN - POWER & COMMUNICATION

H/S

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ELECTRICAL ROUGH-IN DATA SCHEDULE	
CONN. NO.	DESCRIPTION OF UTILITY REQUIREMENTS
E-1	20A 120V CO 24" AFF
E-2	20A 120V CO 46" AFF
E-3	20A 120V CO 50" AFF
E-4	5.1A 120V 90" AFF FOR AIR DOOR
E-5	5.9A 120V DFA FOR LIGHTS, DOOR HEATER, HEATED PRESSURE RELIEF PORT, AND
	TEMPERATURE ALARM SYSTEM INSIDE WALK-IN COOLER ROOM
E-6	3A 120V DFA FOR EVAPORATOR COIL AND REFRIGERANT/LIQUID LINE SHUT-OFF VALVE OF
	WALK-IN COOLER ROOM
E-7	5.9A 120V DFA FOR LIGHTS, DOOR HEATER, HEATED PRESSURE RELIEF PORT, AND
	TEMPERATURE ALARM SYSTEM OF WALK-IN FREEZER ROOM
E-8	11.9A 208V 1-PH DFA FOR EVAPORATOR COIL AND REFRIGERANT/LIQUID LINE SHUT-OFF
	VALVE OF WALK-IN FREEZER ROOM
E-9	2A 120V DFA FOR CONDENSATE DRAIN LINE HEATER OF WALK-IN FREEZER ROOM
E-10	34.4A (38.7 MCA/50A MOPD) 208V 3-PH 36" ABOVE CONCRETE PAD FOR REMOTE WALK-IN
	COOLER/FREEZER REFRIGERATION SYSTEM
E-11	30A 120/208V 36" AFF FOR STACKED WASHER/DRYER - NEMA L14-30R RECEPTACLE REQUIRED
E-12	5.6A 120V 24" AFF FOR SLICER - NEMA 5-20R RECEPTACLE REQUIRED
E-13	5.6A 208V 3-PH 24" AFF FOR 40-QUART MIXER - NEMA L15-20R REQUIRED
E-14	16A 120V 50" AFF FOR MOBILE PROOFER HEATED CABINET - NEMA 5-20R REQUIRED
E-15	13A 120V 24" AFF FOR FOOD CUTTER - NEMA 5-20R RECEPTACLE REQUIRED
E-16	100A 120/208V 3-PH (4-WIRES+GROUND) DFA FOR UTILITY DISTRIBUTION SYSTEM
E-17	20A 120V CIRCUIT (24-HR SERVICE) DFA FOR EXHAUST/SUPPLY FAN CONTROL PANEL OF
	EXHAUST HOOD

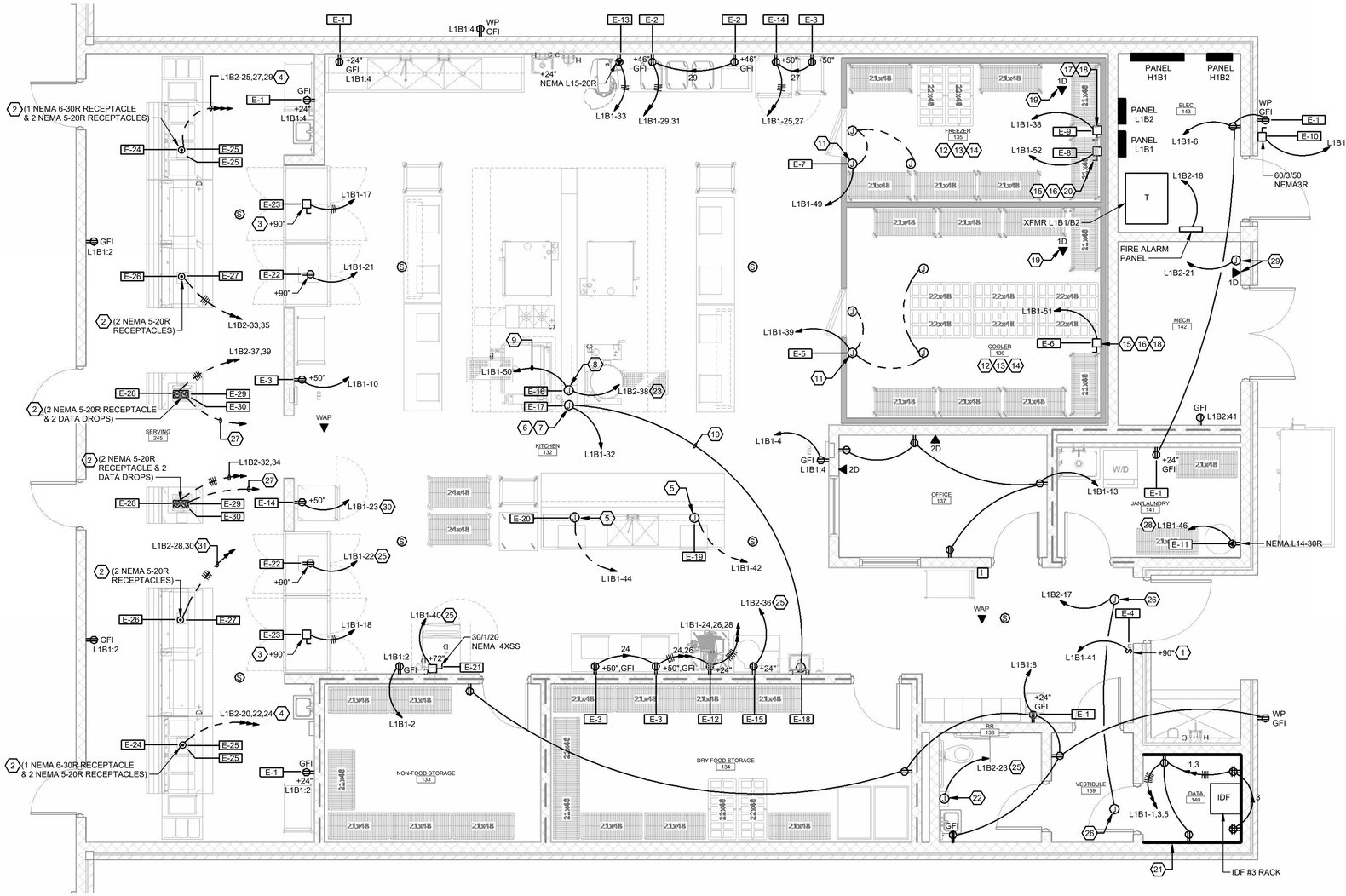
ELECTRICAL ROUGH-IN DATA SCHEDULE	
CONN. NO.	DESCRIPTION OF UTILITY REQUIREMENTS
E-18	TERMINAL BLOCK DFA FOR FIRE SUPPRESSION SYSTEM 30-31
E-19	20A 120V CIRCUIT 6" AFF FOR BUILT-IN CONVENIENCE OUTLET (NEMA 5-20R) OF
	PREPARATION COUNTER
E-20	12A 120V 6" AFF FOR BUILT-IN RECEPTACLE (NEMA 5-20R) OF PREPARATION COUNTER FOR
	FOOD PROCESSOR
E-21	11.5A 120V 72" AFF FOR ICE MACHINE
E-22	11.1A 120V 90" AFF FOR EACH REACH-IN REFRIGERATOR - NEMA 5-20R REQUIRED
E-23	14.4A 208V 1-PH (3-WIRES+GROUND) 90" AFF FOR EACH REACH-IN WARMER
E-24	18A 208V 1-PH 4" AFF FOR BUILT-IN NEMA 6-30 RECEPTACLE OF STAINLESS STEEL
	FLOOR OUTLET BOX FOR HOT FOOD WELLS, HEAT LAMP AND LED LIGHTS
E-25	8A 120V 4" AFF FOR EACH BUILT-IN NEMA 5-20 RECEPTACLE OF STAINLESS STEEL FLOOR
	OUTLET BOX FOR FROST TOP AND LED LIGHTS
E-26	12.2A 120V 4" AFF FOR BUILT-IN NEMA 5-20 RECEPTACLE OF STAINLESS STEEL FLOOR
	OUTLET BOX FOR HOT-TOP, HEAT LAMP AND LED LIGHTS OF FOOD GUARD
E-27	2.5A 120V 4" AFF FOR BUILT-IN NEMA 5-20 RECEPTACLE OF STAINLESS STEEL FLOOR
	OUTLET BOX FOR MOBILE MILK COOLER
E-28	20A 120V COMPUTER GRADE CIRCUIT 4" AFF FOR BUILT-IN RECEPTACLE (NEMA 5-20R) OF
	STAINLESS STEEL FLOOR OUTLET BOX FOR EACH MOBILE CASHIER COUNTER
E-29	DATA CIRCUIT 4" AFF FOR FOR BUILT-IN DATA OUTLET (CAT-6) OF STAINLESS STEEL
	FLOOR OUTLET BOX FOR EACH P.O.S. UNIT
E-30	20A 120V CIRCUIT 4" AFF FOR BUILT-IN RECEPTACLE (NEMA 5-20R) OF STAINLESS STEEL
	FLOOR OUTLET BOX FOR EACH NOVELTY ICE CREAM CABINET (BY VENDOR)

GENERAL NOTES:

1. ALL PENETRATIONS OF WALK-IN COOLER AND FREEZER CEILING/WALL PANELS SHALL BE SEALED WITH USDA APPROVED SEALANT. PROVIDE CONDUIT SEAL FITTINGS FOR ALL PENETRATIONS.
2. ALL ELECTRICAL CONDUIT WITHIN WALK-IN COLLER AND FREEZER SHALL BE FILLED (INSIDE CONDUIT) WITH FOAM URETHANE TO PREVENT CONDENSATION.
3. LIGHT FIXTURES FOR WALK-IN COOLER/FREEZERS SHALL BE FURNISHED UNDER DIV 11, INSTALLED AND CONNECTED UNDER DIV 26.
4. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL POWER CONNECTIONS TO FOOD SERVICE EQUIPMENT.
5. ELECTRICAL CONTRACTOR SHALL INSTALL ALL CORD/PLUG ASSEMBLIES FURNISHED BY DIVISION 11 TO FOOD SERVICE EQUIPMENT.
6. WALL MOUNTED OUTLET/JUNCTION BOXES SHALL BE RECESSED WITHIN BUILDING WALL.
7. OUTLET/JUNCTION BOXES NOT LOCATED ON WALLS IN KITCHEN (WET) AREA AND LOCATED WITHIN 4 FEET OF THE FLOOR SHALL BE 316 STAINLESS STEEL FD TYPE WITH THREADED HUBS AND GASKETED COVERS. PROVIDE 316 STAINLESS STEEL UNISTRUT SUPPORT SECURED TO FLOOR TO SUPPORT BOX. USE LIQUIDTIGHT FLEX METAL CONDUIT FOR FINAL CONNECTIONS TO EQUIPMENT/DEVICES. WHERE CONDUIT STUBS UP THRU FLOOR USE PVC SCHEDULE 80 ELBOWS WITH TERMINAL ADAPTER AT BOX. USE STAINLESS STEEL CONNECTORS AT BOX FOR LIQUIDTIGHT CONNECTIONS.
8. WHERE NECESSARY, USE PVC CORROSION PROTECTION TAPE OR NON-METALLIC ISOLATORS TO PREVENT GALVANIC CORROSION WHERE DISSIMILAR METALS COME IN CONTACT.
9. ROUTE ALL DATA DROPS IN THIS AREA TO NEW IDF #3 IN DATA ROOM 140.

REFERENCE NOTES:

1. MANUAL MOTOR RATED TOGGLE SWITCH DISCONNECT (20A/120V) LOCKABLE IN OFF POSITION. INSTALL MICRO SWITCH, FURNISHED BY MANUFACTURER, AND PROVIDE FINAL HARDWIRE CONNECTION TO AIR DOOR VIA MICRO SWITCH CONTROL.
2. STAINLESS STEEL FLOOR MOUNTED OUTLET BOX, RECEPTACLES, AND DATA DROPS FURNISHED BY DIVISION 11, INSTALLED BY DIVISION 26.
3. 30/2/20 NEMA 4X STAINLESS STEEL.
4. 1"C-4#12 (2 NEMA 5-20R), 3#8 (NEMA 6-30R), #10 GND.
5. JUNCTION BOX 6" ABOVE FLOOR. PROVIDE LIQUIDTIGHT TO EXTEND CIRCUIT FROM BOX TO COUNTER RECEPTACLE FURNISHED BY DIVISION 11.
6. PROVIDE CONTROL WIRING IN CONDUIT FROM THE EXHAUST HOOD CONTROL PANEL (MOUNTED ON UPS) TO THE MAGNETIC STARTER OR VFDS OF HOOD.
7. PROVIDE (2) CONTROL WIRES IN CONDUIT FROM THE EXHAUST HOOD CONTROL PANEL TO EACH OF (4) HEAT SENSORS MOUNTED IN EXHAUST HOOD.
8. CONNECT TO MAIN DISCONNECT AT UDS (FURNISHED BY DIVISION 11). ELECTRICAL CONTRACTOR SHALL INSPECT UDS FOR LOOSE CONNECTIONS (CAUSED BY SHIPPING) AND TIGHTEN AS REQUIRED. INTERCONNECT ELECTRICAL FIELD JOINT OF UDS BY BOLTING BUS BARS AND/OR CABLE BUS WIRING TOGETHER. ALL FITTINGS, BOLTS, QUICK-DISCONNECT DEVICES, ETC SHALL BE SUPPLIED AND PRE-FITTED WITH THE UDS. CONNECT FLEX CONDUIT WITH LEADS AND/OR CORD/PLUG ASSEMBLIES (FURNISHED BY DIVISION 11) TO COOKING EQUIPMENT WHERE REQUIRED. PROVIDE (3) 120 VOLT CONTROL WIRES IN CONDUIT FROM PRE-WIRED LIGHT SWITCH MOUNTED ON END RISER OF UDS TO JUNCTION BOXES (4 LOCATIONS) LOCATED ON TOP OF EXHAUST HOOD FOR PRE-WIRED EXHAUST HOOD LIGHTS.
9. ROUTE 120 VOLT CIRCUIT THRU FIRE ALARM CONTROL RELAY TO SHUNT TRIP COIL ON UDS TO SHUT OFF POWER TO ALL COOKING EQUIPMENT UNDER THE HOOD UPON A FIRE ALARM CONDITION. EXTEND WIRING IN RACEWAY FROM HOOD CONTROL PANEL TO GAS SOLENOID TO SHUTOFF GAS TO EQUIPMENT UNDER HOOD.
10. PROVIDE (3) 120 VOLT CONTROL WIRES IN CONDUIT FROM THE FIRE SUPPRESSION SYSTEM TERMINAL BLOCK TO FIRE SYSTEM INTERFACE OF EXHAUST HOOD CONTROL PANEL. EXHAUST FANS SHALL BE ACTIVATED AND SUPPLY FANS SHALL BE DE-ACTIVATED IN THE EVENT OF A FIRE.
11. CONNECT TO WALK-IN COOLER AND FREEZER COILS, LIGHTS, DOOR HEATER, HEATER PRESSURE RELIEF PORT AND TEMPERATURE ALARM SYSTEM (ITEMS FURNISHED BY DIVISION 11, INSTALLED BY DIVISION 26). PROVIDE ALL CONDUIT, BOXES, AND WIRING AS NECESSARY PER APPROVED SHOP DRAWINGS.
12. HORIZONTAL RUNS OF CONDUIT FOR CEILING MOUNTED LIGHT FIXTURES SHALL BE MOUNTED ON TOP OF WALK-IN CEILING PANELS.
13. PROVIDE JUNCTION BOX ON TOP OF WALK-IN COOLER AND FREEZER FOR POWER SOURCE OF TEMPERATURE ALARM SYSTEM. ALARM SYSTEM FURNISHED BY DIVISION
14. PROVIDE 18 GAUGE WIRING TO TEMPERATURE SENSORS IN ACCORDANCE WITH DIVISION 11 SPECIFICATIIONS.
15. FUSE DISCONNECT AS RECOMMENDED BY MANUFACTURER. PROVIDE FINAL CONNECTION TO WALK-IN EVAPORATOR COIL.
16. PROVIDE 2 CONTROL WIRES FROM EVAP COIL TO ELECTRIC SHUT-OFF VALVE (FIELD INSTALLED ON REFRIGERANT LIQUID LINE BY DIVISION 11) LOCATED OUTSIDE REFRIGERATED ROOM. COORDINATE EXACT REQUIREMENTS WITH DIVISION
17. PROVIDE FINAL HARDWIRE CONNECTION TO CONDENSATE DRAIN LINE HEATER.
18. 30/1 FDS NEMA 4X STAINLESS STEEL
19. DATA DROPS FOR WALK-IN FREEZER/COOLER EVAP COIL CONTROLLER.
20. 30/2 FDS NEMA 4X STAINLESS STEEL
21. 3/4" X 4' X 8' FIRE RATED PLYWOOD (AC GRADE) BACKBOARD WITH (2) COATS OF WHITE FIRE RETARDANT PAINT. PROVIDE GROUND BAR MOUNTED AT 8' AFF WITH #4 AWG GROUND TO MAIN ELECTRICAL GROUND POINT.
22. CONNECT TO HAND DRYER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
23. 1 1/2"C-4#2, #6 GND
24. 3/4"C-3#8, #10 GND
25. 3/4"C-2#10, #10 GND.
26. 120V POWER FOR ACCESS CONTROL POWER SUPPLY.
27. 1" CONDUIT FOR DATA CABLING. ROUTED UNDERGROUND TO IDF RACK.
28. 3/4"C-3#10, #10 GND.
29. FOR HVAC CONTROL PANEL.
30. 3/4"C-2#8. #8 GND.
31. 3/4"C-4#10, #10 GND.



1 FIRST FLOOR PLAN - AREA B - ALTERNATES - ENLARGED KITCHEN - POWER & COMMUNCIATION

1/4" = 1'-0"

1" ½" 0" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

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STATE OF LOUISIANA — RAYMOND H. NOLAN II — REG. No. 27697 — REGISTERED PROFESSIONAL ENGINEER — IN — ELECTRICAL ENGINEERING — 10.1.26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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E204b

ENLARGED KITCHEN PLAN - ALTERNATE - ELECTRICAL

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PROJECT NO. HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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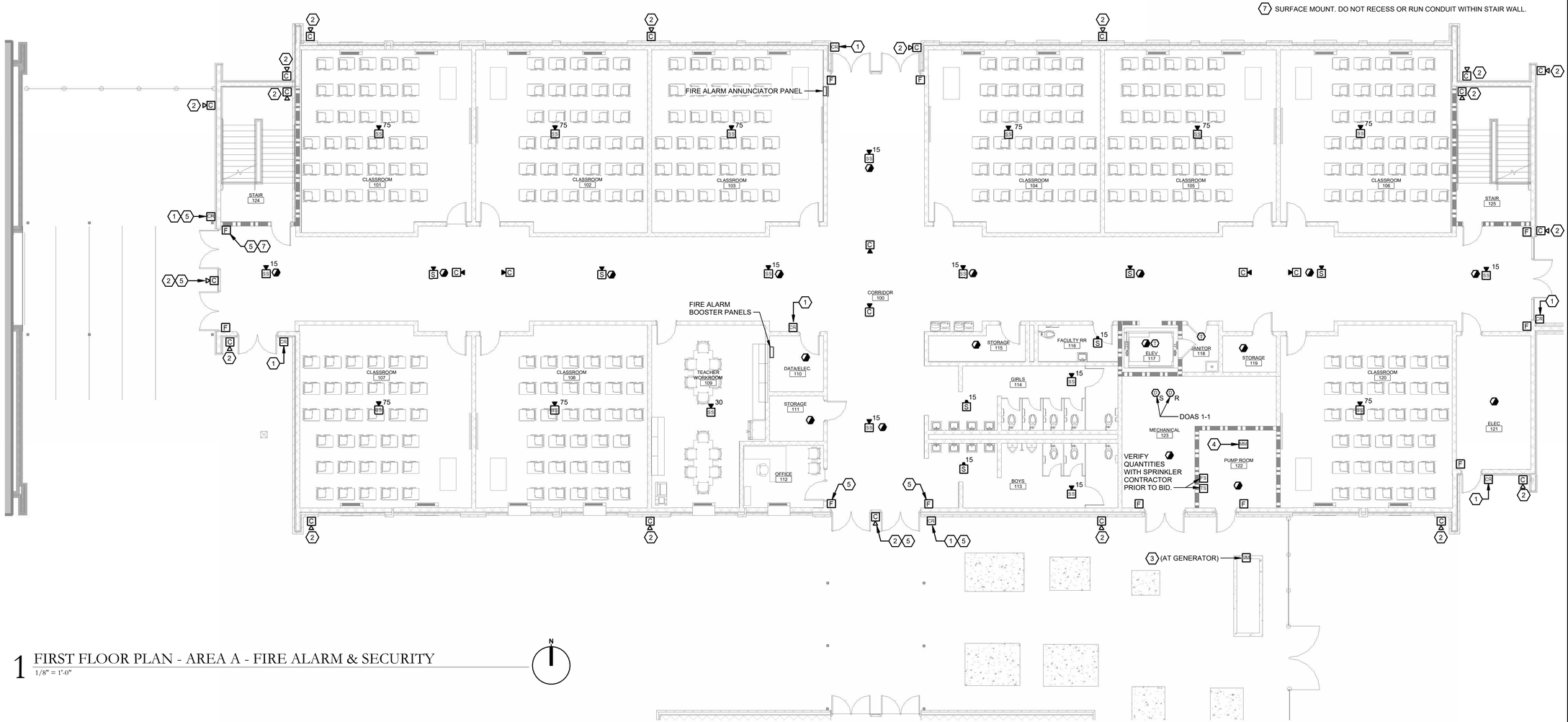
GENERAL NOTES:

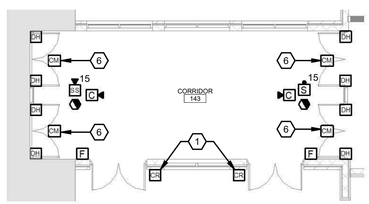
1. PROVIDE ONE CAT 6 DATA DROP FOR EACH OWNER PROVIDED CAMERA LOCATION TO THE NEAREST IDF RACK. PROVIDE RECESSED DEVICE BOX FOR ALL WALL MOUNT CAMERAS WITH 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE.
2. PROVIDE A 10 FT SERVICE LOOP ABOVE CEILING FOR ALL CAT 6 CABLING SERVING WAPS AND CEILING MOUNTED CAMERAS.

REFERENCE NOTES:

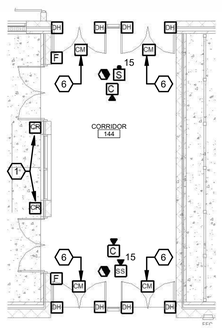
1. ACCESS CONTROLLED DOOR. SEE DETAIL SHEET E304.
2. WALL MOUNT CAMERA AT 9' AFF. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.
3. PROVIDE FIRE ALARM MONITOR MODULES TO MONITOR GENERATOR RUNNING, GENERATOR FAULT, AND GENERATOR NOT IN AUTO.
4. FIRE ALARM MONITOR MODULES FOR MONITORING FIRE PUMP RUNNING, LOSS OF POWER, AND PHASE REVERSAL.
5. DELETE DEVICE UNDER ALTERNATE 3 WORK.
6. PROVIDE FIRE ALARM CONTROL MODULE AND ELECTROMAGNETIC DOOR HOLDERS TO HOLD DOOR OPEN. WIRE SO THAT DOORS SHUT UPON FIRE ALARM.
7. SURFACE MOUNT. DO NOT RECESS OR RUN CONDUIT WITHIN STAIR WALL.



1 FIRST FLOOR PLAN - AREA A - FIRE ALARM & SECURITY
1/8" = 1'-0"

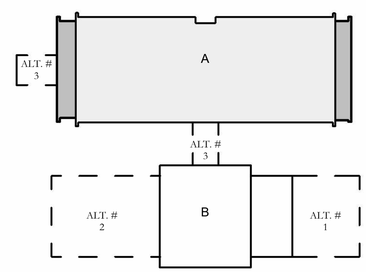


2 FIRST FLOOR PLAN - AREA A - ALTERNATE 3 - FIRE ALARM & SECURITY
1/8" = 1'-0"



3 FIRST FLOOR PLAN AREA A - ALTERNATE 3 - FIRE ALARM & SECURITY
1/8" = 1'-0"

KEY PLAN



1" ½" 0" ½" 1"
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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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PROJECT NO: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

E205a

1ST FLOOR PLAN - AREA A - FIRE ALARM & SECURITY

H/S

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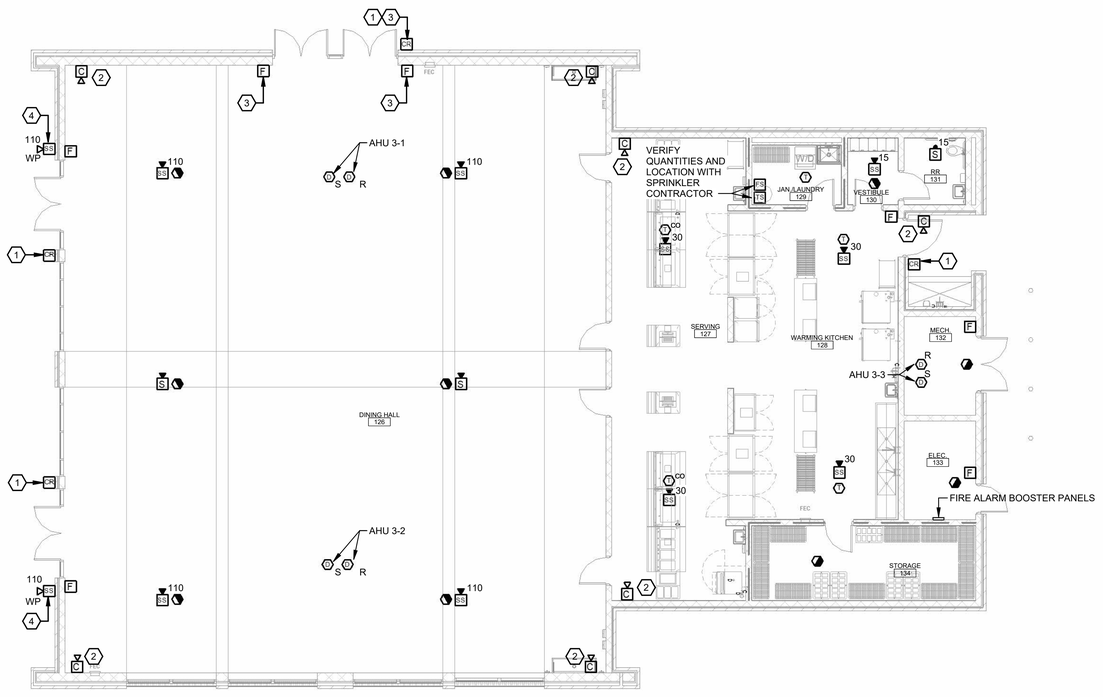
GENERAL NOTES:

1. PROVIDE ONE CAT 6 DATA DROP FOR EACH OWNER PROVIDED CAMERA LOCATION TO THE NEAREST IDF RACK. PROVIDE RECESSED DEVICE BOX FOR ALL WALL MOUNT CAMERAS WITH 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE.
2. PROVIDE A 10 FT SERVICE LOOP ABOVE CEILING FOR ALL CAT 6 CABLING SERVING WAPS AND CEILING MOUNTED CAMERAS.

REFERENCE NOTES:

1. ACCESS CONTROLLED DOOR. SEE DETAIL SHEET E304.
2. WALL MOUNT CAMERA AT 9' AFF. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.
3. DELETE DEVICE UNDER ALTERNATE 3 WORK.
4. DELETE DEVICE UNDER ALTERNATE 2 WORK.

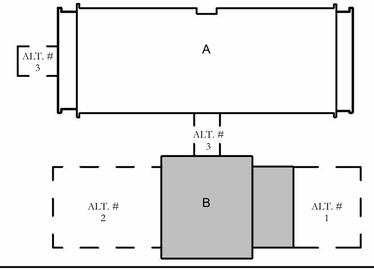


1 FIRST FLOOR PLAN - AREA B - BASE BID - FIRE ALARM & SECURITY

1/8" = 1'-0"

N

KEY PLAN



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LICENSE # 27697

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IN
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NO.	DESCRIPTION	DATE

PROJECT NO.	25005
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QUALITY CONTROL	RHN

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E205b

1ST FLOOR PLAN - AREA B - FIRE ALARM & SECURITY

H/S

1" ½" 0" ½" 1"

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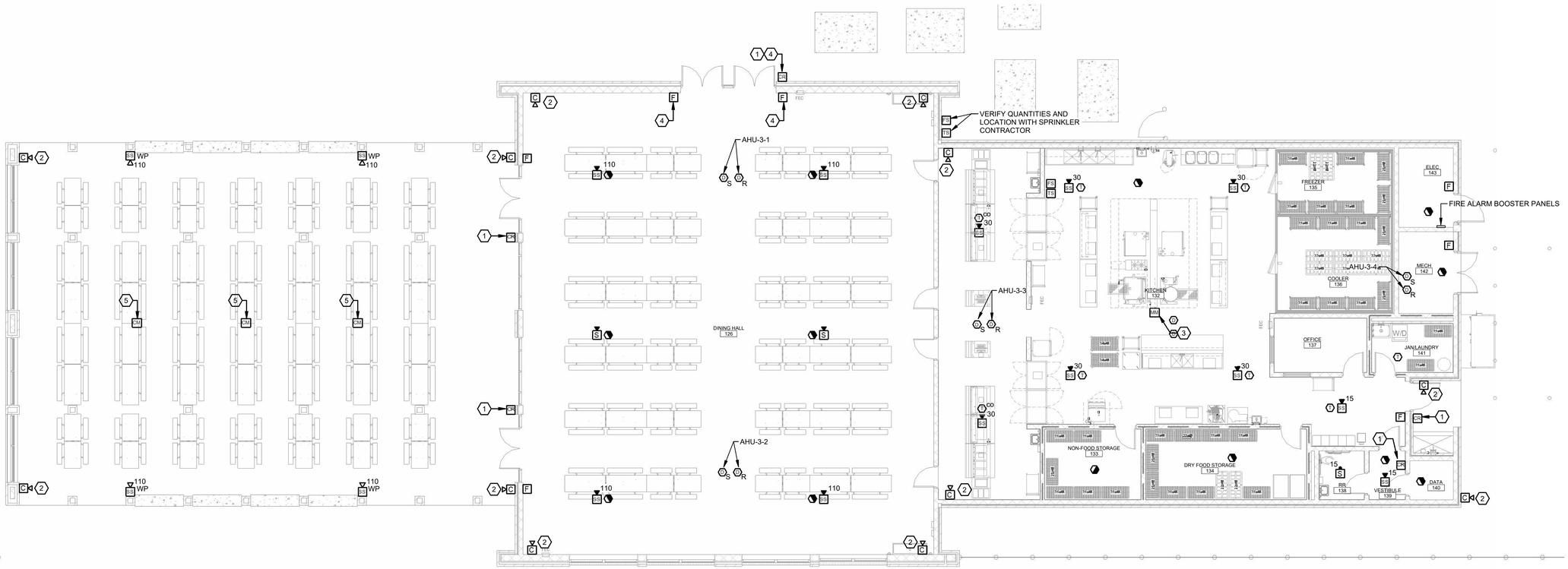
GENERAL NOTES:

1. PROVIDE ONE CAT 6 DATA DROP FOR EACH OWNER PROVIDED CAMERA LOCATION TO THE NEAREST IDF RACK. PROVIDE RECESSED DEVICE BOX FOR ALL WALL MOUNT CAMERAS WITH 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE.
2. PROVIDE A 10 FT SERVICE LOOP ABOVE CEILING FOR ALL CAT 6 CABLING SERVING WAPS AND CEILING MOUNTED CAMERAS.

REFERENCE NOTES:

1. ACCESS CONTROLLED DOOR. SEE DETAIL SHEET E304.
2. WALL MOUNT CAMERA AT 9' AFF. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.
3. FIRE ALARM MONITOR MODULES TO MONITOR HOOD SUPPRESSION SYSTEM.
4. DELETE DEVICE UNDER ALTERNATE 3 WORK.
5. PROVIDE FIRE ALARM CONTROL MODULE FOR HVLS FAN. PROVIDE WIRING IN RACEWAY SO THAT FAN SHUTS DOWN UPON ACTIVATION OF SPRINKLER SYSTEM.

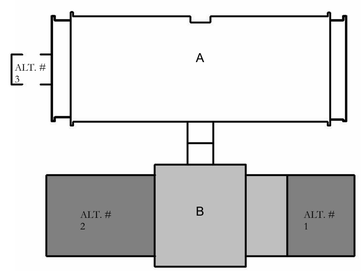


1 FIRST FLOOR PLAN - AREA B - ALTERNATES - FIRE ALARM & SECURITY

1/8" = 1'-0"

N

KEY PLAN



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LICENSE # 27697

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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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E205c

1ST FLOOR PLAN - AREA B -ALTERNATES -FIRE ALARM & SECURITY

H/S

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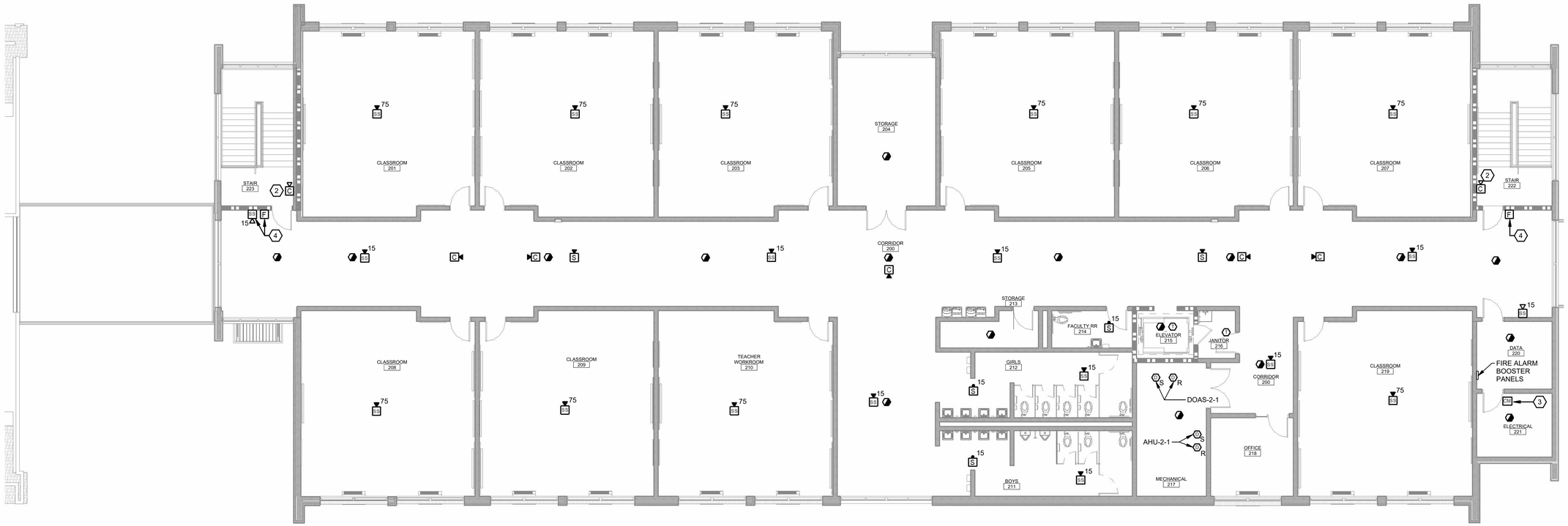
0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

GENERAL NOTES:

1. PROVIDE ONE CAT 6 DATA DROP FOR EACH OWNER PROVIDED CAMERA LOCATION TO THE NEAREST IDF RACK. PROVIDE RECESSED DEVICE BOX FOR ALL WALL MOUNT CAMERAS WITH 3/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE.
2. PROVIDE A 10 FT SERVICE LOOP ABOVE CEILING FOR ALL CAT 6 CABLING SERVING WAPS AND CEILING MOUNTED CAMERAS.

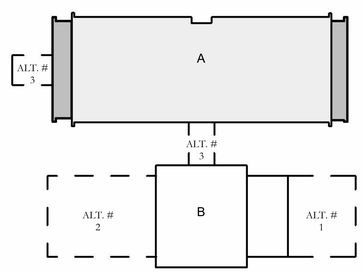
REFERENCE NOTES:

1. ACCESS CONTROLLED DOOR. SEE DETAIL SHEET E304.
2. WALL MOUNT CAMERA AT 9' AFF. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.
3. FIRE ALARM CONTROL MODULES FOR ELEVATOR RECALL, SHUTDOWN AND RED HAT.
4. SURFACE MOUNT. DO NOT RECESS OR RUN CONDUIT WITHIN STAIR WALL.



1 SECOND FLOOR PLAN - AREA A - FIRE ALARM & SECURITY
1/8" = 1'-0"

KEY PLAN



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ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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E205d

2ND FLOOR PLAN - AREA A -FIRE ALARM & SECURITY

H/S

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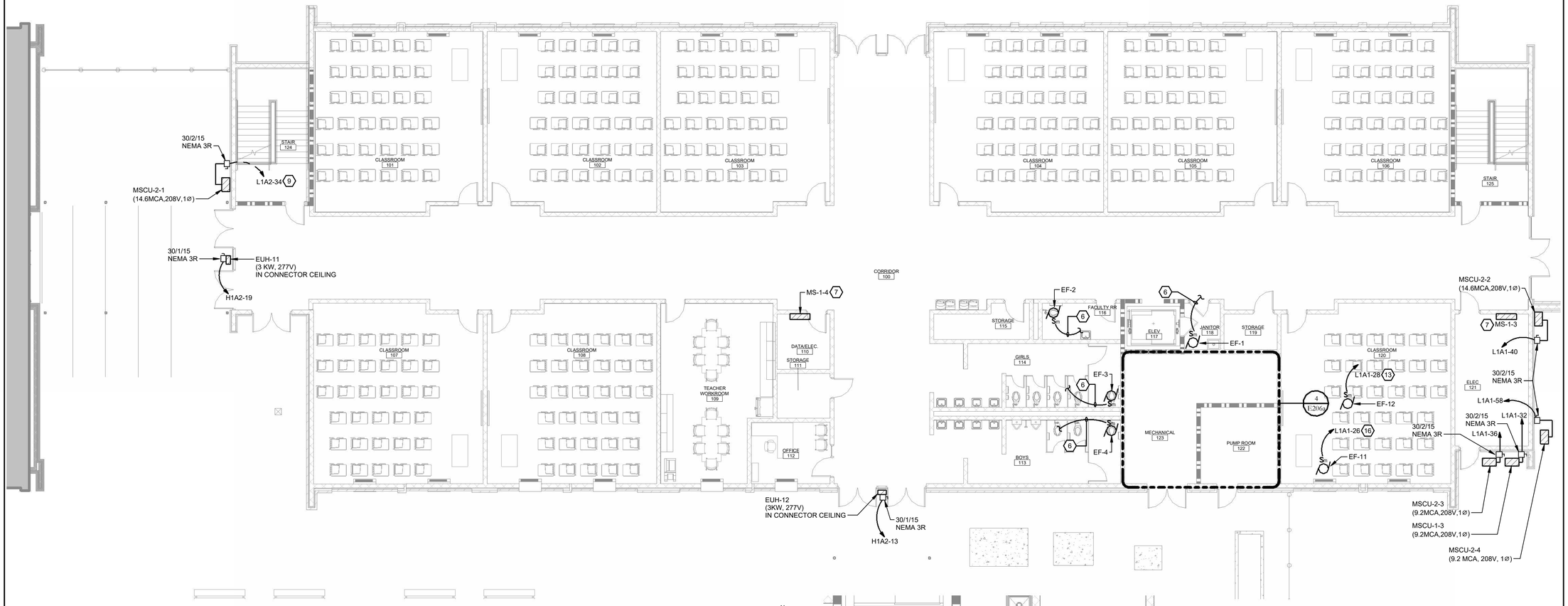
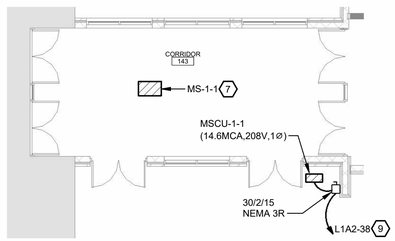
REFERENCE NOTES:

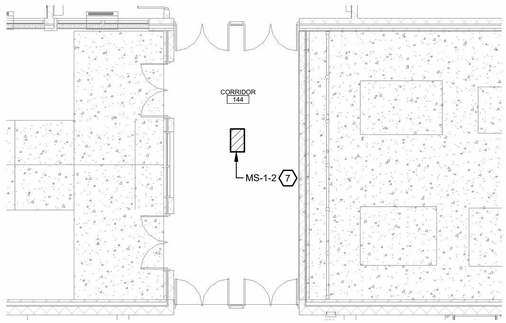
1. 3/4"C-2#8, #10 GND
2. 1"C-3#6, #10 GND
3. 3/4"C-3#8, #10 GND
4. PROVIDE FINAL CONNECTION TO RE-CIRC PUMP (1/6HP,120V).
5. ALL CONDUITS IN THE FIRE PUMP ROOM SHALL BE RIGID GALVANIZED STEEL AND LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS. INSTALLATION OF DISCONNECT SWITCH, J-BOXES, FEEDERS, ETC IN FIRE PUMP ROOM SHALL COMPLY WITH NEC ARTICLE 695.
6. CONNECT TO SWITCHED LIGHTING CIRCUIT (277V) IN ROOM.
7. UNIT RECEIVES POWER FROM OUTDOOR UNIT. PROVIDE 3/4"C-3# 12, #12 GND TO RESPECTIVE OUTDOOR UNIT.
8. 3/4"C-3#10, #10 GND
9. 3/4"C-2#10, #10 GND
10. 1 1/4"C-3#3, #8 GND
11. ROUTE THRU COMBINATION STARTER IN ELECTRICAL ROOM.
12. COMBINATION STARTER FOR HOOD EXHAUST AND SUPPLY FANS. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. ALL COMBINATION STARTERS SHALL BE FUSED TO MATCH FUSE SIZE IN LOCAL DISCONNECT AT FAN. HAVE ELECTRONIC OVERLOAD RELAYS, 120V COIL VOLTAGE AND NEMA 4X STAINLESS STEEL ENCLOSURE. PROVIDE 3/4"C-2#12, #12 GND FROM STARTER COIL TO HOOD EXHAUST/SUPPLY FAN CONTROL PANEL. EXHAUST FANS SHALL REMAIN RUNNING UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM AND SUPPLY FAN SHALL BE SHUT OFF.
13. PROVIDE RELAY TO INTERLOCK OPERATION OF FAN WITH REFRIGERANT DETECTOR. COORDINATE RELAY AND WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR.
14. EMERGENCY FEEDER UNDERGROUND TO GENERATOR. SEE RISER DIAGRAM.
15. NORMAL FEEDER UNDERGROUND TO PAD MOUNT TRANSFORMER. SEE RISER DIAGRAM.
16. ROUTE THRU 120V IN LINE THERMOSTAT IN FIRE PUMP ROOM FOR ON/OFF CONTROL. COORDINATE WITH MECHANICAL CONTRACTOR.
17. FOR BIPOLAR IONZATION KIT. CONNECT TO RECEPTACLE CIRCUIT IN MECHANICAL ROOM, AHEAD OF GROUND FAULT CIRCUIT INTERRUPTER.



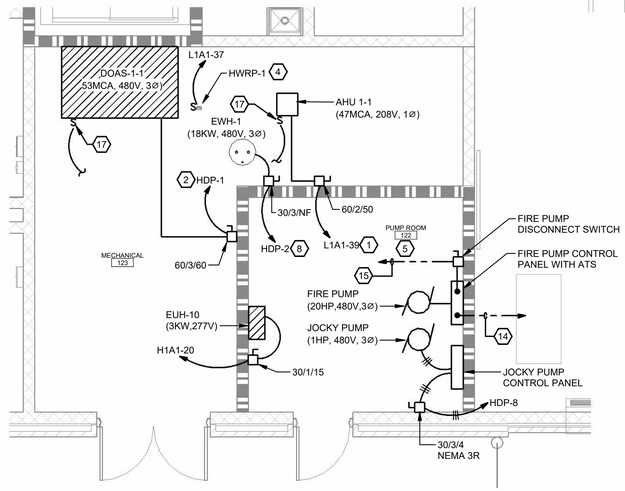
1 FIRST FLOOR PLAN - AREA A - MECHANICAL
1/8" = 1'-0"



2 FIRST FLOOR PLAN - AREA A - ALTERNATE 3 - MECHANICAL
1/8" = 1'-0"

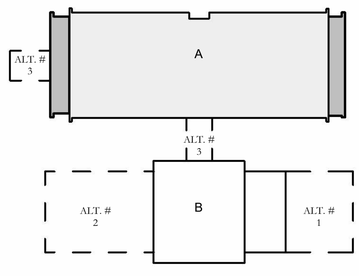


3 FIRST FLOOR PLAN AREA A - ALTERNATE 3 - MECHANICAL
1/8" = 1'-0"



4 ENLARGED FLOOR PLAN - MECHANICAL & PUMP ROOM - ELECTRICAL
1/4" = 1'-0"

KEY PLAN



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COVINGTON, LA 70433
985.249.5706 WWW.CEG-ITL.COM
PROJECT NO: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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STATE OF LOUISIANA
RAYMOND H. NOLAN II
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REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
10.1.24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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E206a

1ST FLOOR PLAN - AREA A - MECHANICAL

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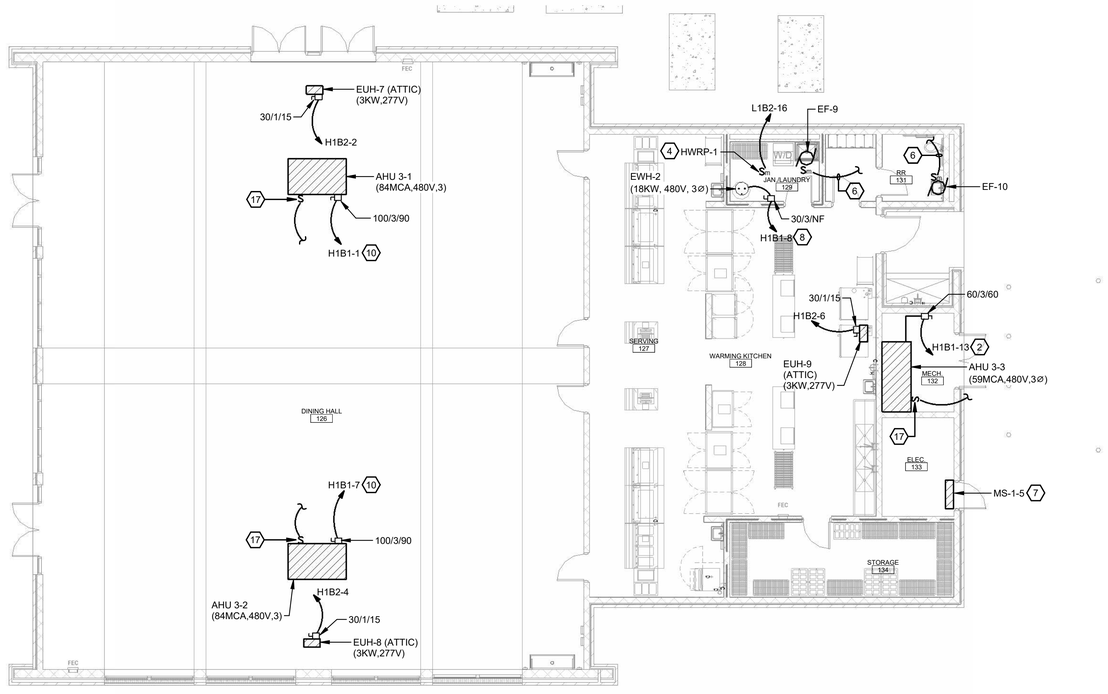


REFERENCE NOTES:

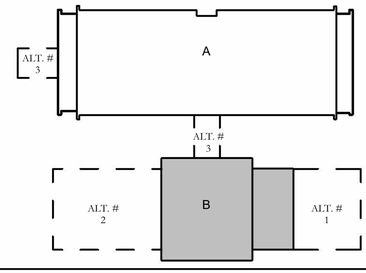
1. 3/4"C-2#8, #10 GND
2. 1"C-3#6, #10 GND
3. 3/4"C-3#8, #10 GND
4. PROVIDE FINAL CONNECTION TO RE-CIRC PUMP (1/6HP,120V).
5. ALL CONDUITS IN THE FIRE PUMP ROOM SHALL BE RIGID GALVANIZED STEEL AND LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS. INSTALLATION OF DISCONNECT SWITCH, J-BOXES, FEEDERS, ETC IN FIRE PUMP ROOM SHALL COMPLY WITH NEC ARTICLE 695.
6. CONNECT TO SWITCHED LIGHTING CIRCUIT (277V) IN ROOM.
7. UNIT RECEIVES POWER FROM OUTDOOR UNIT. PROVIDE 3/4"C-3# 12, #12 GND TO RESPECTIVE OUTDOOR UNIT.
8. 3/4"C-3#10, #10 GND
9. 3/4"C-2#10, #10 GND
10. 1 1/4"C-3#3, #8 GND
11. ROUTE THRU COMBINATION STARTER IN ELECTRICAL ROOM.
12. COMBINATION STARTER FOR HOOD EXHAUST AND SUPPLY FANS. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. ALL COMBINATION STARTERS SHALL BE FUSED TO MATCH FUSE SIZE IN LOCAL DISCONNECT AT FAN. HAVE ELECTRONIC OVERLOAD RELAYS, 120V COIL VOLTAGE AND NEMA 4X STAINLESS STEEL ENCLOSURE. PROVIDE 3/4"C-2#12, #12 GND FROM STARTER COIL TO HOOD EXHAUST/SUPPLY FAN CONTROL PANEL. EXHAUST FANS SHALL REMAIN RUNNING UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM AND SUPPLY FAN SHALL BE SHUT OFF.
13. PROVIDE RELAY TO INTERLOCK OPERATION OF FAN WITH REFRIGERANT DETECTOR. COORDINATE RELAY AND WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR.
14. EMERGENCY FEEDER UNDERGROUND TO GENERATOR. SEE RISER DIAGRAM.
15. NORMAL FEEDER UNDERGROUND TO PAD MOUNT TRANSFORMER. SEE RISER DIAGRAM.
16. ROUTE THRU 120V IN LINE THERMOSTAT IN FIRE PUMP ROOM FOR ON/OFF CONTROL. COORDINATE WITH MECHANICAL CONTRACTOR.
17. FOR BIPOLAR IONZATION KIT. CONNECT TO RECEPTACLE CIRCUIT IN MECHANICAL ROOM, AHEAD OF GROUND FAULT CIRCUIT INTERRUPTER.

1 FIRST FLOOR PLAN - AREA B - BASE BID - MECHANICAL

1/8" = 1'-0"

N

KEY PLAN



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ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING
10.1.26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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1ST FLOOR PLAN - AREA B - BASE BID - MECHANICAL

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1" ½" 0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

REFERENCE NOTES:

1. 3/4"C-2#8, #10 GND
2. 1"C-3#6, #10 GND
3. 3/4"C-3#8, #10 GND
4. PROVIDE FINAL CONNECTION TO RE-CIRC PUMP (1/6HP,120V).
5. ALL CONDUITS IN THE FIRE PUMP ROOM SHALL BE RIGID GALVANIZED STEEL AND LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS. INSTALLATION OF DISCONNECT SWITCH, J-BOXES, FEEDERS, ETC IN FIRE PUMP ROOM SHALL COMPLY WITH NEC ARTICLE 695.
6. CONNECT TO SWITCHED LIGHTING CIRCUIT (277V) IN ROOM.
7. UNIT RECEIVES POWER FROM OUTDOOR UNIT. PROVIDE 3/4"C-3# 12, #12 GND TO RESPECTIVE OUTDOOR UNIT.
8. 3/4"C-3#10, #10 GND
9. 3/4"C-2#10, #10 GND
10. 1 1/4"C-3#3, #8 GND
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12. COMBINATION STARTER FOR HOOD EXHAUST AND SUPPLY FANS. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. ALL COMBINATION STARTERS SHALL BE FUSED TO MATCH FUSE SIZE IN LOCAL DISCONNECT AT FAN, HAVE ELECTRONIC OVERLOAD RELAYS, 120V COIL VOLTAGE AND NEMA 4X STAINLESS STEEL ENCLOSURE. PROVIDE 3/4"C-2#12, #12 GND FROM STARTER COIL TO HOOD EXHAUST/SUPPLY FAN CONTROL PANEL. EXHAUST FANS SHALL REMAIN RUNNING UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM AND SUPPLY FAN SHALL BE SHUT OFF.
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15. NORMAL FEEDER UNDERGROUND TO PAD MOUNT TRANSFORMER. SEE RISER DIAGRAM.
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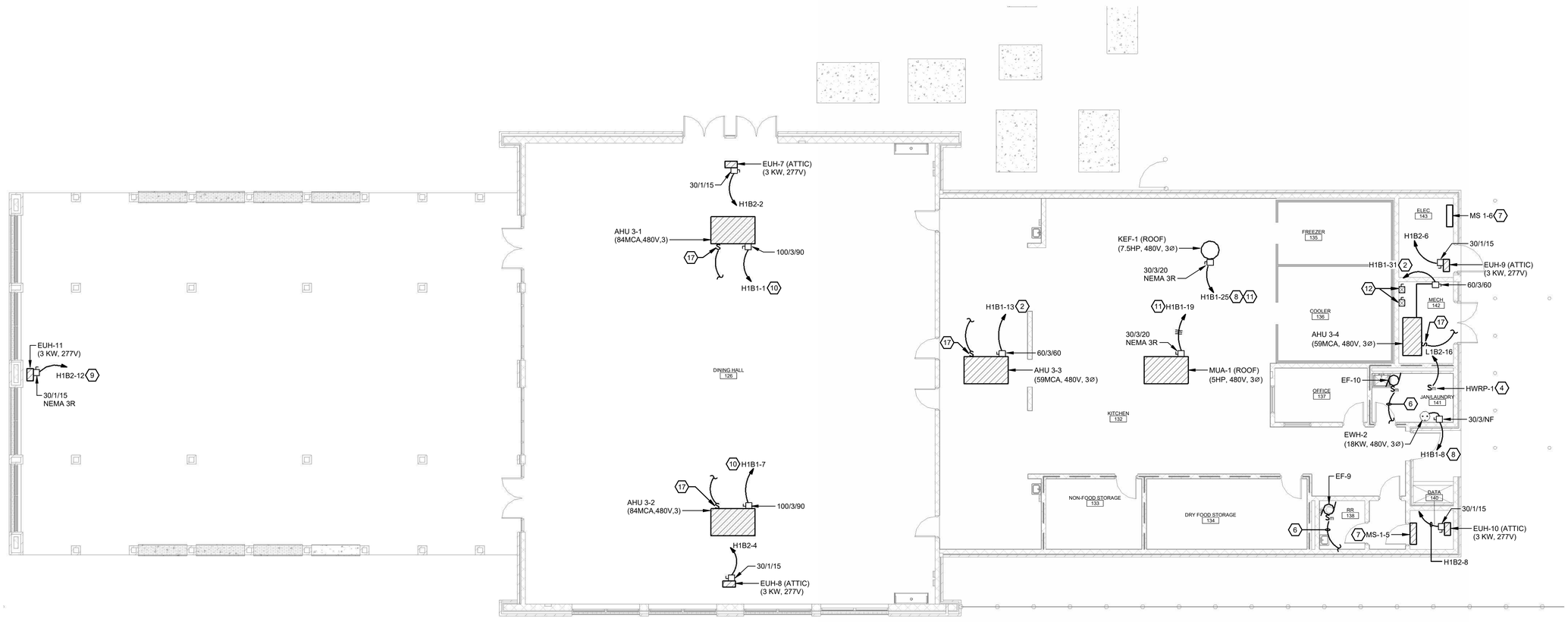
17. FOR BIPOLAR IONZATION KIT. CONNECT TO RECEPTACLE CIRCUIT IN MECHANICAL ROOM, AHEAD OF GROUND FAULT CIRCUIT INTERRUPTER.

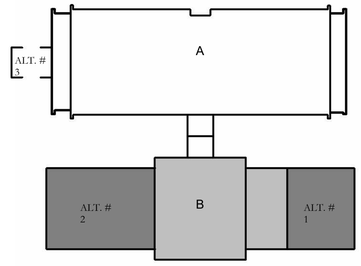


1 FIRST FLOOR PLAN - AREA B - ALTERNATES - MECHANICAL

1/8" = 1'-0"

N

KEY PLAN



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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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1ST FLOOR PLAN - AREA B - ALTERNATE - MECHANICAL

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REFERENCE NOTES:

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2. 1"C-3#6, #10 GND
3. 3/4"C-3#8, #10 GND
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5. ALL CONDUITS IN THE FIRE PUMP ROOM SHALL BE RIGID GALVANIZED STEEL AND LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS. INSTALLATION OF DISCONNECT SWITCH, J-BOXES, FEEDERS, ETC IN FIRE PUMP ROOM SHALL COMPLY WITH NEC ARTICLE 695.
6. CONNECT TO SWITCHED LIGHTING CIRCUIT (277V) IN ROOM.
7. UNIT RECEIVES POWER FROM OUTDOOR UNIT. PROVIDE 3/4"C-3# 12, #12 GND TO RESPECTIVE OUTDOOR UNIT.
8. 3/4"C-3#10, #10 GND
9. 3/4"C-2#10, #10 GND
10. 1 1/4"C-3#3, #8 GND
11. ROUTE THRU COMBINATION STARTER IN ELECTRICAL ROOM.
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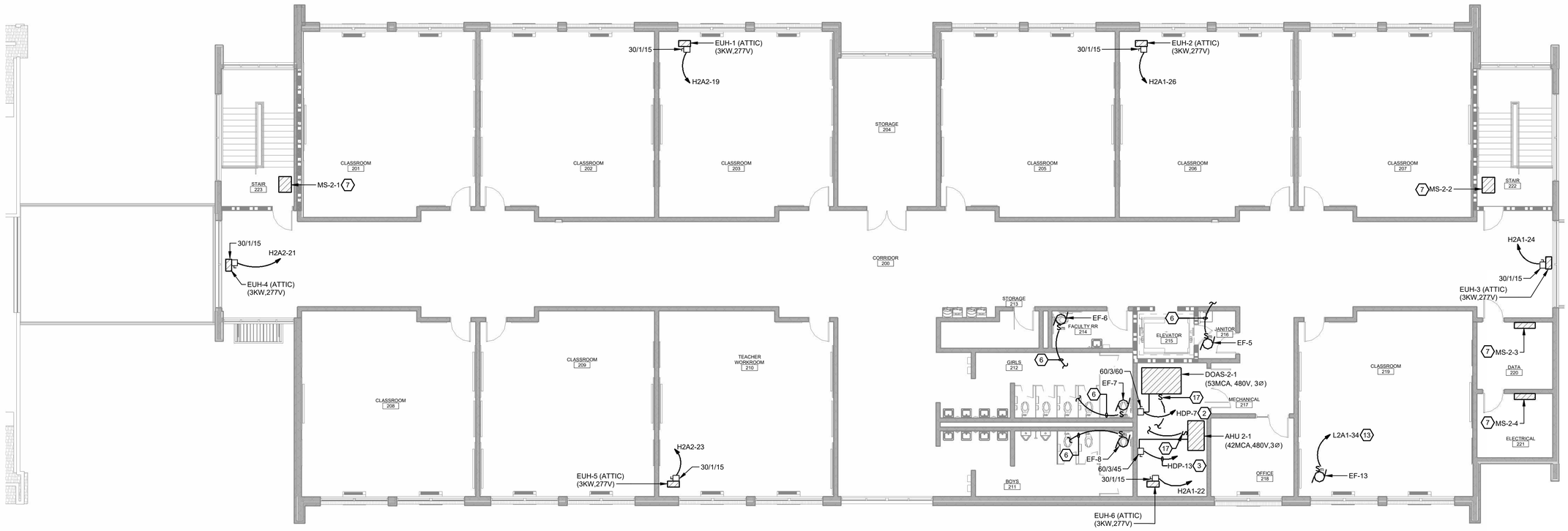
16. ROUTE THRU 120V IN LINE THERMOSTAT IN FIRE PUMP ROOM FOR ON/OFF CONTROL. COORDINATE WITH MECHANICAL CONTRACTOR.
17. FOR BIPOLAR IONZATION KIT. CONNECT TO RECEPTACLE CIRCUIT IN MECHANICAL ROOM, AHEAD OF GROUND FAULT CIRCUIT INTERRUPTER.

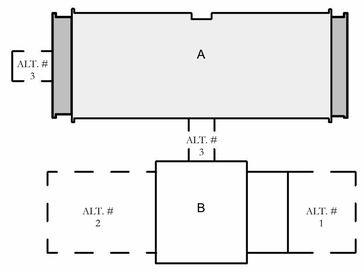


1 SECOND FLOOR PLAN - AREA A - MECHANICAL

1/8" = 1'-0"

N

KEY PLAN



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ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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PONCHATOULA HIGH SCHOOL 18 CLASSROOM ADD. & CAFETERIA

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10.1.24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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2ND FLOOR PLAN - AREA A - MECHANICAL

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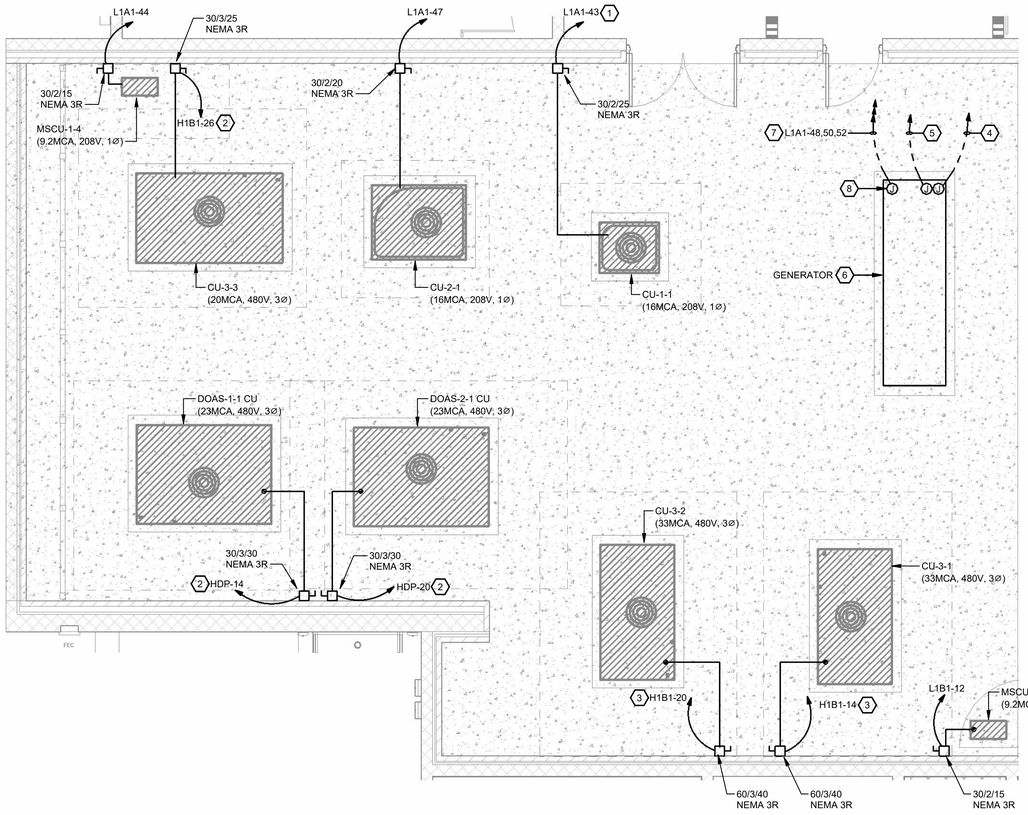
GENERAL NOTES:

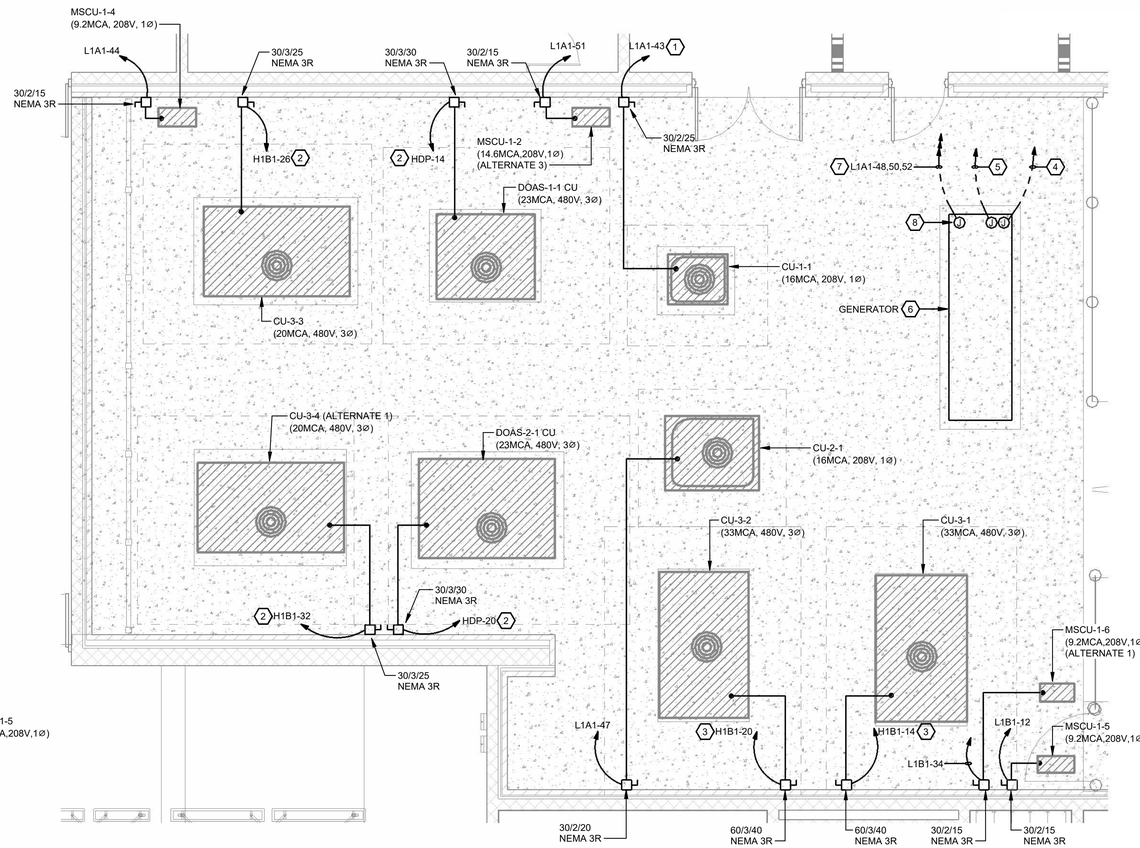
1. PROVIDE UNISTRUT SUPPORT RACK TO MOUNT LOCAL DISCONNECT FOR AC UNIT.

REFERENCE NOTES:

1. 3/4"C-2#10, #10 GND.
2. 3/4"C-3#10, #10 GND.
3. 3/4"C-3#8, #10 GND.
4. 3/4"C-5#12 TO FIRE PUMP CONTROLLER (START SIGNAL).
5. 1 1/4"C-2#14 AND (1) BELDEN 9729 TO REMOTE ANNUNCIATOR.
6. MOUNT REMOTE E-STOP ON OUTSIDE OF GENERATOR ENCLOSURE OR ON BUILDING WALL. PROVIDE CONDUIT AND CONDUCTORS AS NECESSARY.
7. 3/4"C-6#10, #10 GND.
8. CONNECT TO GENERATOR JACKET HEATER, BATTERY CHARGER AND SPACE HEATERS.



1 MECHANICAL YARD - BASE BID - ELECTRICAL
1/4" = 1'-0"



2 MECHANICAL YARD - ALTERNATE - ELECTRICAL
1/4" = 1'-0"

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IN
MECHANICAL ENGINEERING
10.1.26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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ENLARGED MECHANICAL YARD - ELECTRICAL

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ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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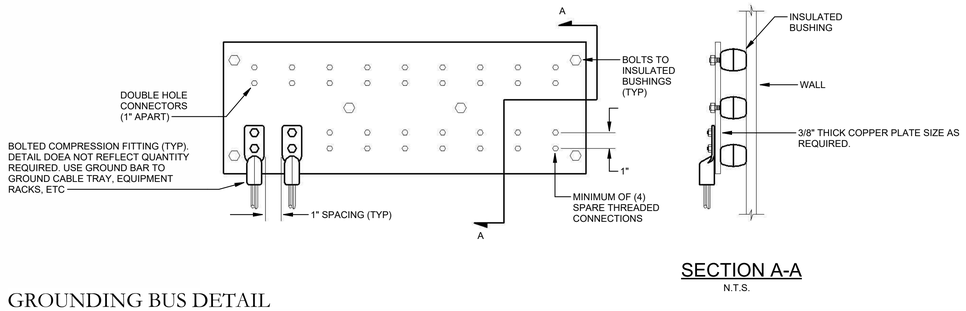
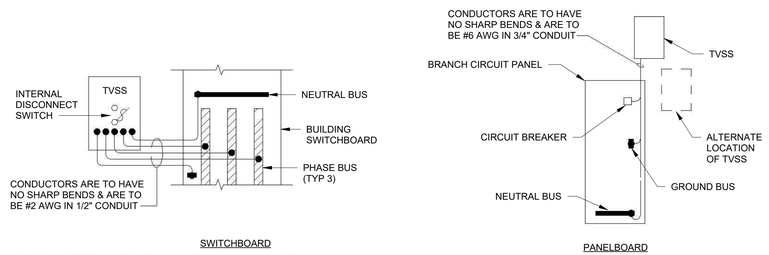


SECTION A-A

N.T.S.

1 GROUNDING BUS DETAIL

1/4" = 1'-0"



SWITCHBOARD

PANELBOARD

2 TVSS SWITCH BOARD DETAIL

1/2" = 1'-0"

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QUALITY CONTROL	RHN

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ELECTRICAL DETAILS

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PROJECT NO. HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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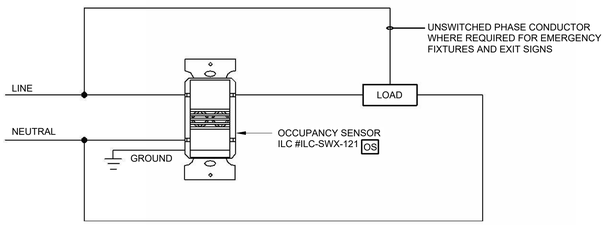

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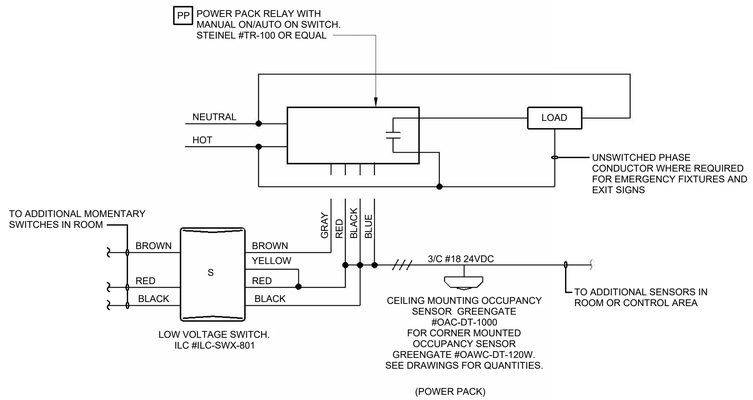
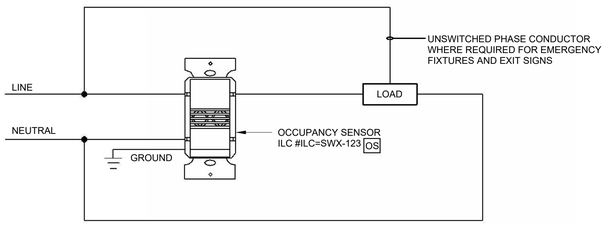


(POWER PACK)

1 LIGHTING CONTROL WIRING DIAGRAM - AUTO ON/AUTO OFF

N.T.S.



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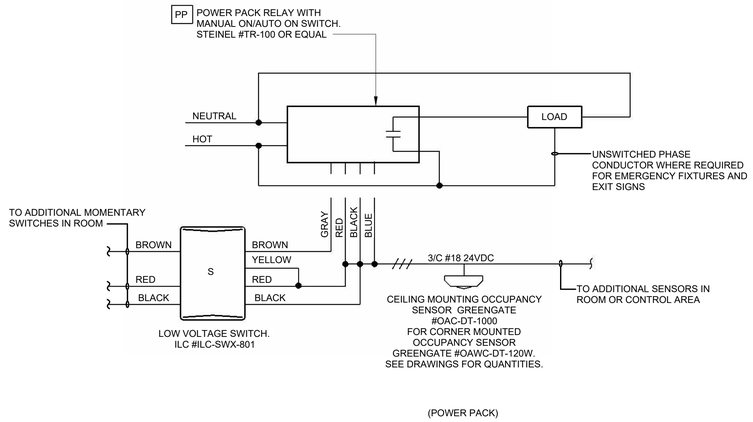
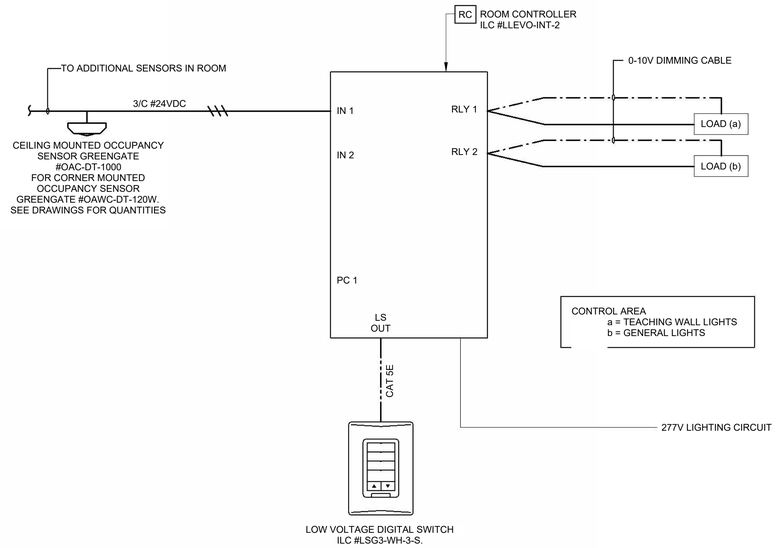


(POWER PACK)

2 LIGHTING CONTROL WIRING DIAGRAM - MANUAL ON/AUTO OFF

N.T.S.



3 LIGHTING CONTROL WIRING DIAGRAM - MANUAL ON/MANUAL DIMMING

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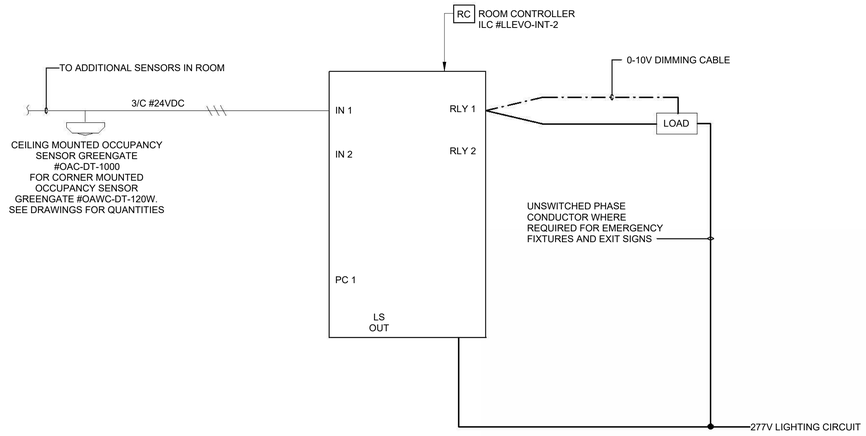

4 LIGHTING CONROL WIRING DIAGRAM - AUTO ON/PARTIAL OFF

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REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
10.1.24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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LIGHTING CONTROL WIRING DIAGRAMS

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PROJECT NO: HS181-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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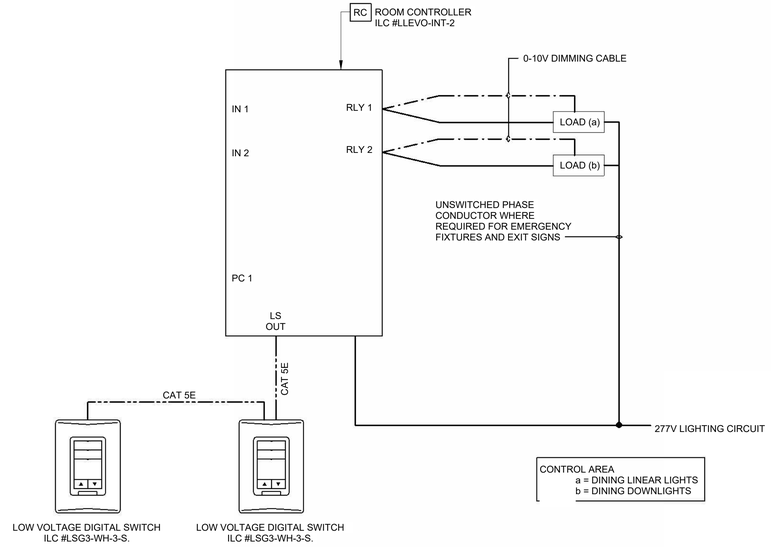
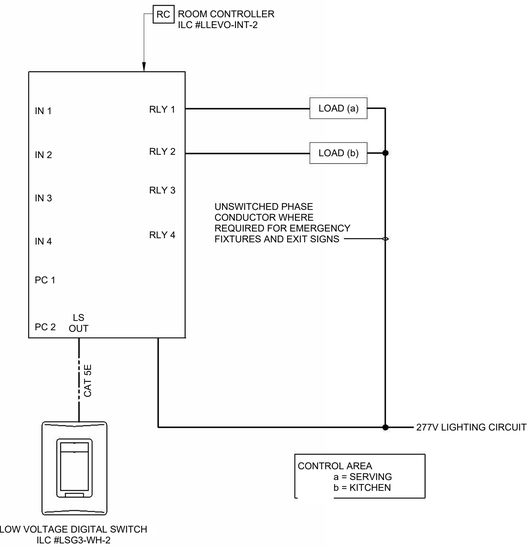
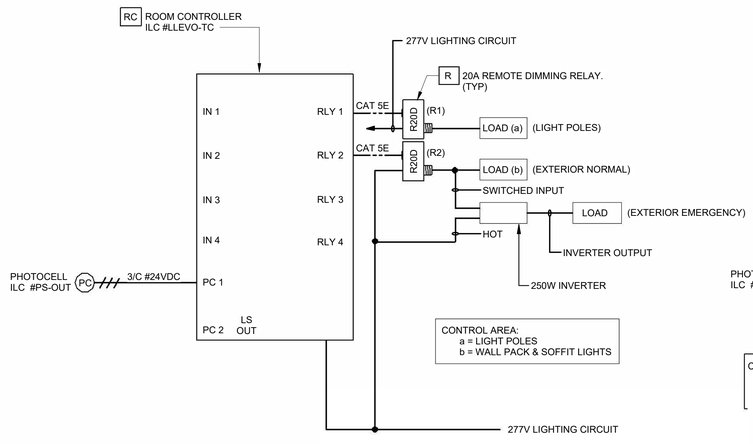


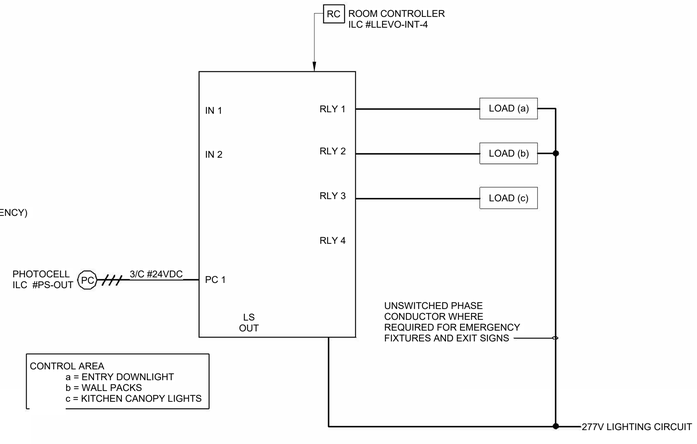
1 LIGHTING CONTROL WIRING DIAGRAM - MANUAL DIMMING/TIME CLOCK
N.T.S.



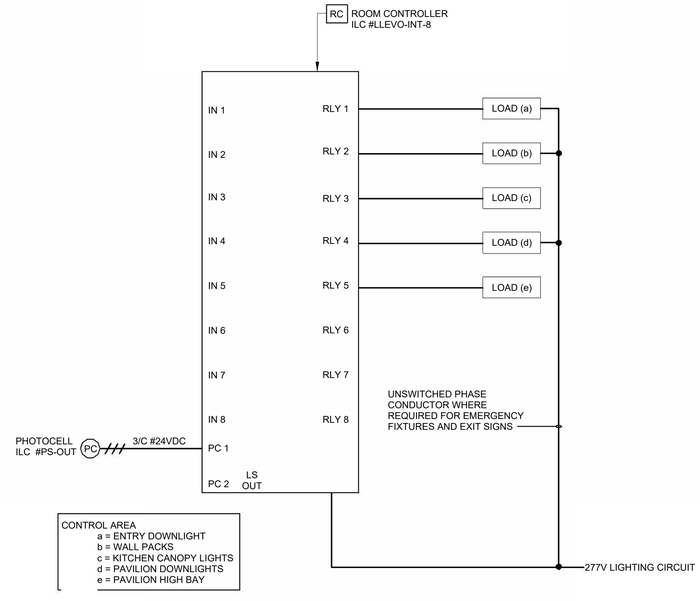
2 LIGHTING CONTROL WIRING DIAGRAM - TIME CLOCK
N.T.S.



3 LIGHTING CONTROL WIRING DIAGRAM -
AREA A EXTERIOR - TIME CLOCK/PHOTOCELL
N.T.S.



4 LIGHTING CONTROL WIRING DIAGRAM -
AREA B EXTERIOR (BASE BID) - TIME CLOCK/PHOTOCELL
N.T.S.



5 LIGHTING CONTROL WIRING DIAGRAM -
AREA B EXTERIOR (ALTERNATE #1) - TIME CLOCK/PHOTOCELL
N.T.S.

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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
10.1.24

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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BID DOCUMENTS

E303

LIGHTING CONTROL WIRING DIAGRAMS

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COVINGTON, LA 70433
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PROJECT NO.: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

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1"
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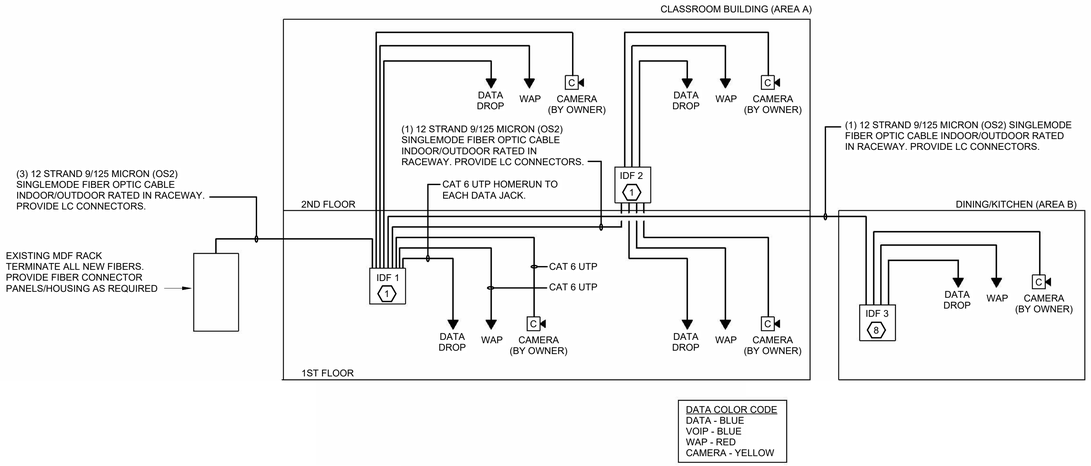
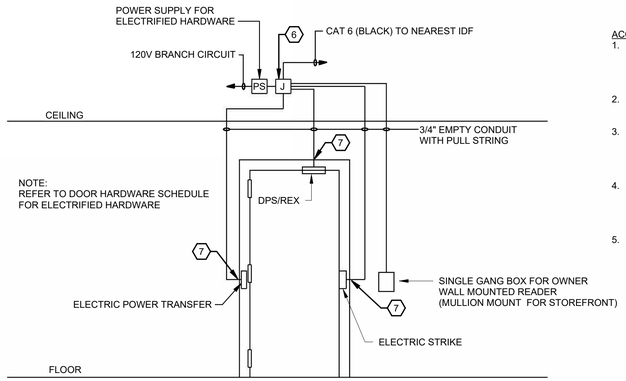


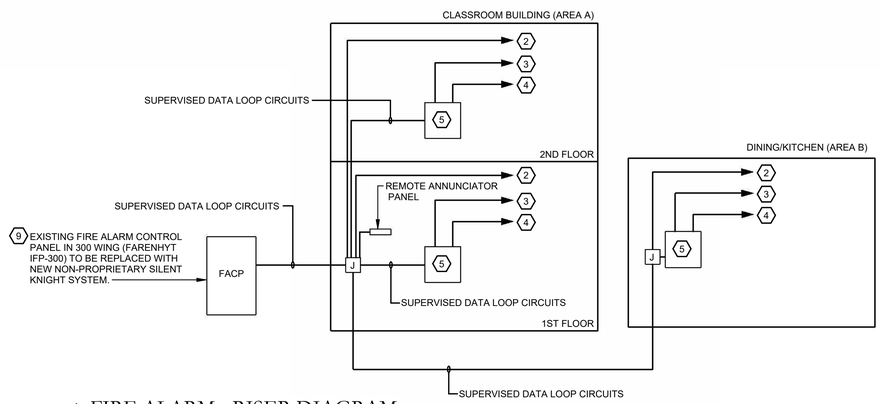
1 DATA NETWORK - RISER DIAGRAM
N.T.S.



ACCESS CONTROL NOTES:

1. OWNER SHALL PROVIDE ACCESS CONTROL SYSTEM, INCLUDING BUT NOT LIMITED TO, CONTROL PANELS, WALL OR MULLION MOUNT READER, REQUEST TO EXIT (REX) MOTION SENSOR, EXTERIOR DOOR KIT, ETC. CONTRACTOR SHALL PROVIDE ALL CONDUIT AND BOXES AND CABLING AS INDICATED.
2. FOR DOUBLE DOOR LOCATIONS PROVIDE ADDITIONAL CONDUITS (NOT SHOWN) FOR ELECTRIC POWER TRANSFER/ELECTRIC STRIKE AND DPS/REX FOR SECOND DOOR.
3. SOME DOORS MAY BE PART OF A STOREFRONT SYSTEM. IN THIS CASE, OWNERS ACCESS CONTROL WIRING SHOULD BE ROUTED THRU THE STOREFRONT SYSTEM TO THE DOOR FRAME/CARD READER. COORDINATE CONDUIT INSTALLATION WITH ARCHITECT PRIOR TO ROUGH-IN.
4. WHERE ACCESS CONTROLLED DOORS ARE IN SPACES WITHOUT A SUSPENDED CEILING, THE CONTRACTOR SHALL COORDINATE THE CONDUIT ROUTING WITH THE ARCHITECT PRIOR TO ROUGH-IN, AND EXPOSED BOXES AND CONDUITS SHALL BE PAINTED PER ARCHITECTURAL SPECIFICATIONS.
5. CONTRACTOR SHALL CONDUCT A PRE-INSTALL MEETING PRIOR TO ROUGH-IN TO REVIEW ACCESS CONTROL CONDUIT, CABLING AND BOX INSTALLATION. PARTICIPANTS SHALL INCLUDE THE CONTRACTOR AND APPROPRIATE SUB CONTRACTORS, ENGINEER AND ARCHITECT, AND OWNER'S SECURITY VENDOR.

2 ACCESS CONTROL DOOR DETAIL
N.T.S.



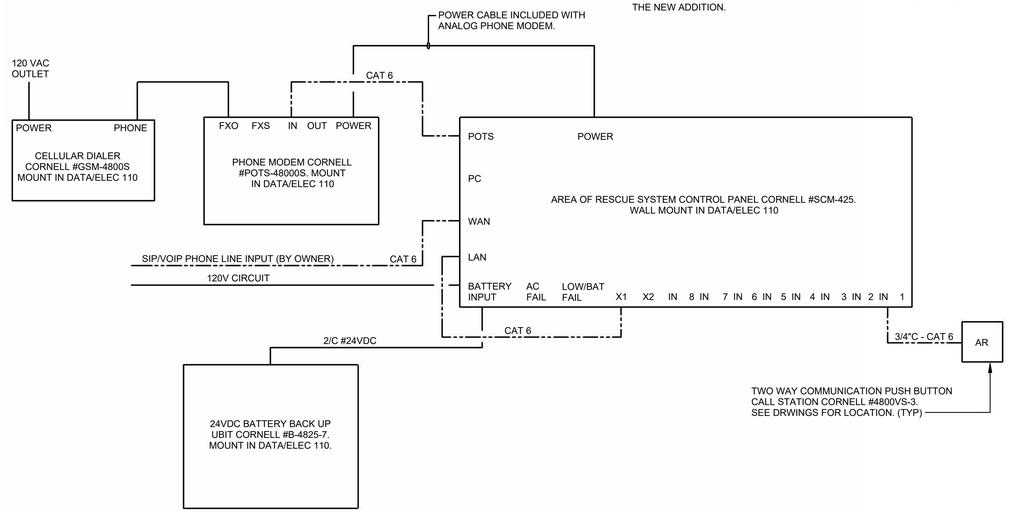
4 FIRE ALARM - RISER DIAGRAM
N.T.S.

GENERAL NOTES:

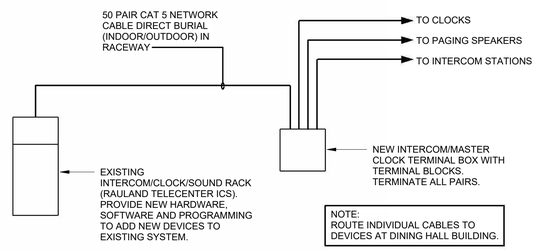
1. THE CONTRACTOR SHALL MAINTAIN ALL SPECIAL SYSTEM SERVICES TO ALL PARTS OF THE SCHOOL CAMPUS DURING CONSTRUCTION. CONNECTION TO EXISTING SYSTEMS, RELOCATION OF EXISTING EQUIPMENT, AND SWITCHOVERS SHALL BE SCHEDULED IN ADVANCE WITH THE SCHOOL BOARD AND SHALL BE LIMITED TO AFTER HOURS, WEEKENDS, OR HOLIDAYS. ALL EXISTING SYSTEMS SHALL BE FULLY FUNCTIONAL DURING SCHOOL HOURS. INSTALL NEW WORK PRIOR TO WORK ON EXISTING SYSTEMS TO MINIMIZE DOWNTIME.
2. REFER TO ARCHITECTURAL DRAWINGS TO DETERMINE HOW CONSTRUCTION PHASING AND SEQUENCING REQUIREMENTS MAY AFFECT SPECIAL SYSTEMS WORK. CONTRACTOR SHALL PROVIDE RACEWAYS, WIRING, BOXES, SPLICES, PROGRAMMING, ETC FOR TEMPORARY SPECIAL SYSTEMS PROVISIONS DUE TO PHASING, WHETHER SPECIFICALLY SHOWN OR NOT.
3. ALL SPECIAL SYSTEMS WIRING SHALL BE AS RECOMMENDED BY SYSTEM MANUFACTURER. ALL WIRING SHALL BE LISTED AND RATED FOR IT'S INTENDED USE.
4. PROVIDE SURGE PROTECTION ON ALL COPPER CABLES AT EXIT AND ENTRANCE TO BULDINGS.
5. NEW SPECIAL SYSTEMS DEVICES AND EQUIPMENT SHALL BE CONNECTED TO AND COMPATIBLE WITH THE EXISTING SCHOOL SYSTEMS.

REFERENCE NOTES:

1. IDF SHALL CONSIST OF:
   a. WALL MOUNT RACK 19"W, 26 RACK UNITS
   b. 1500VA, 120V RACK MOUNT ON-LINE UPS (6 MINUTE BATTERY BACK UP AT FULL LOAD). OUTPUT SHALL INCLUDE MIN. SIX (6) NEMA 5-15R RECEPTACLES.
   c. DATA PATCH PANELS: PROVIDE THREE 48 PORT, CAT 6 PATCH PANELS. FURNISH A 6 FT. PATCH CORD FOR EACH WIRED PORT. PROVIDE WIRE MANAGEMENT BETWEEN PATCH PANELS. TERMINATE ALL DATA DROPS ON PATCH PANELS.
   d. RACK MOUNT FIBER OPTIC BREAKOUT BOX, 12 FIBER CAPACITY SINGLEMODE TYPE LC CONNECTORS.
2. WIRING TO NEW INITIATION DEVICES.
3. WIRING TO NEW FIRE ALARM STROBES.
4. WIRING TO NEW FIRE ALARM SPEAKERS.
5. NEW ADDRESSABLE POWER BOOSTER AND ADDRESSABLE VOICE EVAC AMPLIFIERS TO SERVE NEW ADDITION AREAS.
6. WEATHERPROOF 12"X12"X4" JUNCTION BOX WITHIN 10 FOOT OF DOOR. PROVIDE CONDUIT FROM JUNCTION BOX TO CARD READER, STRIKE/TRANSFER HINGE, DOOR POSITION SWITCH AND REQUEST TO EXIT MOTION SENSOR.
7. TERMINATE AT DOOR FRAME FOR COMPLETE PATHWAY BETWEEN ACCESS CONTROL J-BOX AND ACCESS CONTROL HARDWARE/DEVICES.
8. IDF SHALL CONSIST OF:
   a. WALL MOUNT RACK 19"W, 26 RACK UNITS
   b. 1500VA, 120V RACK MOUNT ON-LINE UPS (6 MINUTE BATTERY BACK UP AT FULL LOAD). OUTPUT SHALL INCLUDE MIN. SIX (6) NEMA 5-15R RECEPTACLES.
   c. DATA PATCH PANELS: PROVIDE ONE 48 PORT, CAT 6 PATCH PANEL. FURNISH A 6 FT. PATCH CORD FOR EACH WIRED PORT. PROVIDE WIRE MANAGEMENT BETWEEN PATCH PANELS. TERMINATE ALL DATA DROPS ON PATCH PANELS.
   d. RACK MOUNT FIBER OPTIC BREAKOUT BOX, 12 FIBER CAPACITY SINGLEMODE TYPE LC CONNECTORS.
9. REPLACE EXISTING FARENHYT FACP WITH NON-PROPRIETARY SILENT KNIGHT FACP, MODEL #6820UEVS. FACP SHALL HAVE AN INTEGRAL VOICE EVAC SYSTEM. REPLACE ALL FARENHYT INITIATION DEVICES WITH NEW SILENT KNIGHT INITIATION DEVICES. [20 SMOKE DETECTORS & 2 PULL STATIONS]. EXISTING WIRING CAN BE REUSED. DEVICE COUNT IS BASED OFF EXISTING DRAWINGS. ACTUAL COUNTS MAY VARY AND SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING FARENHYT INITIATION DEVICES IN FIELD. THE CONTRACTOR SHALL VISIT THE SITE TO SEE AND JUDGE THE SCOPE OF WORK PRIOR TO BID. RE-CONNECT ALL EXISTING NOTIFICATION DEVICES AND ANNUNCIATORS TO THE NEW SILENT KNIGHT CONTROL PANEL. CONNECT EXISTING CONVENTIONAL SILENT KNIGHT SYSTEM FOR EXSITING MAIN CAMPUS TO NEW FACP. REPLACE EXISTING FARENHYT MONITOR MODULE AND RELAY WITH NEW SILENT KNIGHT EQUIVALENTS. PROVIDE NEW CELLULAR DIALER FOR REMOTE MONITORING. PROVIDE ALL PROGRAMMING NECESSARY AND RE-CERTIFY EXISTING 300 WING/SCHOOL. THIS NEW FACP SHALL SUPPORT THE NEW ADDITION.



3 AREA OF REFUGE SYSTEM - WIRING DIAGRAM
N.T.S.



5 INTERCOM/MASTER CLOCK - RISER DIAGRAM
N.T.S.

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PONCHATOULA HIGH SCHOOL 18 CLASSROOM ADD. & CAFETERIA

19452 LA-22, PONCHATOULA, LA 70454

STATE OF LOUISIANA — RAYMOND H. NOLAN II — REG. No. 27697 — REGISTERED PROFESSIONAL ENGINEER — IN — ELECTRICAL ENGINEERING — 10.1.26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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BID DOCUMENTS

E304

SPECIAL SYSTEMS RISER DIAGRAMS

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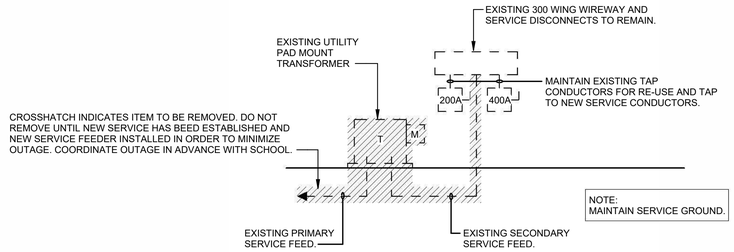
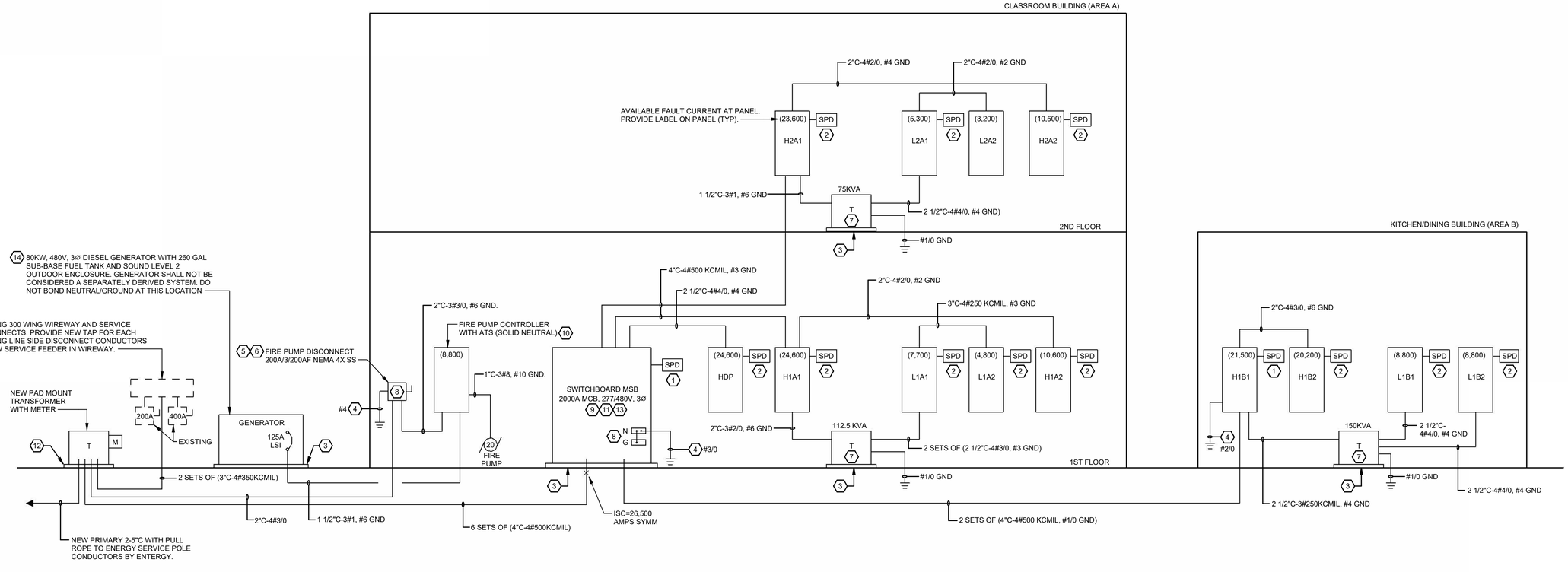


1 EXISTING POWER RISER DIAGRAM - 300 WING

N.T.S.



2 POWER RISER DIAGRAM

N.T.S.

1" ½" 0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

REFERENCE NOTES:

1. SURGE PROTECTION DEVICE (SPD). CURRENT TECHNOLOGY #TG3-200-480-3Y-MN-M2-F2. LOCATE SO THAT CONDUCTOR LENGTH IS LIMITED TO 10 FT MAXIMUM, AND HAS NO SHARP BENDS. FEED FROM CIRCUIT BREAKER IN SWITCHBOARD/PANEL WITH 1 1/2"C-5#2
2. SURGE PROTECTION DEVICE (SPD). CURRENT TECHNOLOGY #CGP3-080-VOLTAGE-3Y-ML-F. LOCATE SO THAT CONDUCTOR LENGTH IS LIMITED TO 10 FT MAXIMUM, AND HAS NO SHARP BENDS. FEED FROM CIRCUIT BREAKER IN PANEL WITH 1"C-5#6
3. PROVIDE 4" HIGH CONCRETE HOUSEKEEPING PAD, MINIMUM 4" BEYOND EQUIPMENT FOOTPRINT ON ALL SIDES.
4. GROUND TO BUILDING STEEL, CONCRETE ENCASED ELECTRODE, METALLIC WATER PIPE AND 3 DRIVEN GROUND RODS SPACED 10 FT APART. CONDUCTOR SIZE AS INDICATED.
5. FIRE PUMP DISCONNECT SWITCH SHALL BE SUITABLE FOR SERVICE ENTRANCE AND LOCKABLE IN CLOSED POSITION. PROVIDE NAME PLATE STATING, "FIRE PUMP DISCONNECTING MEANS" USING 1" LETTERS. BOND NEUTRAL AND GROUND AT THIS LOCATION.
6. PROVIDE A KEY CABINET, PADLOCK AND KEY FOR THE FIRE PUMP DISCONNECT. LOCATE IN FIRE PUMP ROOM.
7. 480V-120/208V, 3ø ENERGY EFFICIENT K13 RATED TRANSFORMER, KVA RATING AS INDICATED. PROVIDE GROUND AS INDICATED TO NEAREST BUILDING GROUNDING ELECTRODE.
8. BOND NEUTRAL/GROUND AT THIS LOCATION.
9. PROVIDE NAMEPLATE AT MAIN CIRCUIT BREAKER STATING, "BUILDING SERVICE DISCONNECT. ADDITIONAL FIRE PUMP DISCONNECT IS LOCATED IN FIRE PUMP ROOM WITHIN BUILDING".
10. PROVIDE NAMEPLATE ADJACENT TO THE CONTROLLER INDICATING LOCATION OF FIRE PUMP DISCONNECT AND LOCATION OF THE KEY.
11. PROVIDE NAMEPLATE STATING "THIS BUILDING HAS AN ON-SITE GENERATOR LOCATED IN THE MECHANICAL YARD THAT SERVES THE FIRE PUMP".
12. PROVIDE CONCRETE PAD AND GROUNDING PER ENTERGY CONSTRUCTION STANDARDS.
13. PROVIDE DIGITAL POWER DEMAND METER TO TRACK REAL TIME VOLTAGE, AMPS, FREQUENCY AND RECORD PEAK POWER DEMAND (KW/KVA).
14. PROVIDE DIESEL FUEL FOR TESTING AND A FULL TANK AT COMPLETION OF PROJECT.

GENERAL NOTES:

1. PROVIDE OVERCURRENT DEVICE COORDINATION STUDY TO INCLUDE ALL OVERCURRENT DEVICES IN SWITCHBOARD MSB, GENERATOR AND FIRE PUMP AND ALL DOWNSTREAM 3-POLE CIRCUIT BREAKERS. CONTRACTOR TO ADJUST BREAKER SETTINGS IN ACCORDANCE WITH COORDINATION STUDY. SEE SPECIFICATION.
2. PROVIDE ARC FLASH STUDY AND ALL LABELING. SEE SPECIFICATION.
3. SOME FEEDERS MAY BE OVERSIZED DUE TO VOLTAGE DROP. THE CONTRACTOR SHALL PROVIDE APPROPRIATELY SIZED LUGS OR AN UPSIZED CIRCUIT BREAKER FRAME AS REQUIRED TO TERMINATE THESE FEEDERS. THE CONTRACTOR SHALL ACCOUNT FOR ANY INCREASE IN LUGS OR CIRCUIT BREAKER FRAME SIZE IN HIS BID.
4. ALL EQUIPMENT AND FEEDER RATINGS ARE THE SAME FOR BASE BID AND ALTERNATES.
5. ALL CIRCUIT BREAKERS IN MSB RATED 1200A OR MORE SHALL HAVE ENERGY REDUCTION MAINTENANCE SYSTEM.
6. MAIN CIRCUIT BREAKER IN MSB SHALL HAVE LSIG TRIP UNIT. ALL FEEDER BREAKERS SHALL HAVE LSI TRIP UNITS.

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BID DOCUMENTS

E305

POWER RISER DIAGRAM

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PROJECT NO.: HS1881-25
ENGINEER: RAYMOND H. NOLAN
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SWITCHBOARD SCHEDULE

SWITCHBOARD NAME: MSB
LOCATION:

PROVIDE 4" X 12" NAME PLATE, ENGRAVED LAMINATED PLASTIC
USE 1" LETTERING FOR NAME, 1 LINE
USE 1/2" LETTERING FOR VOLTS, AMPS, WHERE FED FROM,
MO./YR INSTALLED, 4 LINES

- [X] BLACK FIELD, WHITE LETTERS
- [ ] RED FIELD, WHITE LETTERS

VOLTAGE
- [X] 480/277, 3 PHASE, 4W., WYE
- [ ] 208/120V,3 PHASE, 4W., WYE
- [ ] 240/120V, 3 PHASE, 4W, DELTA W/B PHASE "STINGER"

AMPS MAIN BUSSING: 2000 — AIC RATING: 65KAIC

- [X] TIN PLATED COPPER
- [ ] SILVER PLATED COPPER
- [ ] FULLY RATED
- [ ] SERIES RATED

NEUTRAL BUS
- [ ] 50%
- [X] 100%
- [X] 50% GROUND BUS

ENCLOSURE
- [X] NEMA 1 INDOOR
- [ ] NEMA 3R OUTDOOR, NON-WALK-IN

SWITCHBOARD ACCESS
- [X] FRONT ONLY
- [ ] FRONT AND REAR
- [ ] HINGED, REAR ACCESS, LOCKABLE, 3-POINT LATCH, TEE HANDLE DOORS
- [ ] LEFT END
- [ ] RIGHT END

AMP: 2000 LSIG
- [ ] MAIN LUGS ONLY
- [X] FACTORY MAIN CIRCUIT BREAKER INSULATED CASE - SOLID STATE TRIP
  - [X] GFI, LSIG
  - [X] ERMS
- [ ] FACTORY MAIN FUSIBLE SWITCH
- [ ] BRANCH FUSES

FEEDER: 6 SETS OF #500KCMIL
- [ ] TOP
- [X] BOTTOM
- [ ] LEFT
- [ ] RIGHT

USED AS SERVICE ENTRANCE
- [X] YES. PROVIDE 50% REMOVABLE BUS LINK "MAIN BONDING JUMPER". PROVIDE UL LABEL "SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT"
- [ ] NO. PROTECTED BY FUSE OR CIRCUIT BREAKER AHEAD OF THIS EQUIPMENT

CKT #	# OF POLES	TYPE SWF/CB	TRIP UNIT	TRIP AMPS	LOAD WIRE # PER PH	LOAD WIRE SIZE	LOAD WIRE CU/AL	LOAD DESCRIPTION	LOAD KVA A	LOAD KVA B	LOAD KVA C
1	3	CB	LSI	225	SEE ONE-LINE			PANEL HDP	28	28	28
2	3	CB	LSI	400	SEE ONE-LINE			PANEL H1A1	90.1	90.1	90.1
3	3	CB	LSI	400	SEE ONE-LINE			PANEL H2A1	70.7	70.7	70.7
4	3	CB	LSI	70*	SEE ONE-LINE			ELEVATOR	9.5	9.5	9.5
5	3	CB	LSI	800	SEE ONE-LINE			PANEL H1B1	139.7	139.7	139.7
6	3	CB		100	SEE ONE-LINE			SPD			
7	3	CB	LSI	225	SEE ONE-LINE			SPARE			
8	3	CB	LSI	225	SEE ONE-LINE			SPARE			
9	3	CB		400	SEE ONE-LINE			PREPARED SPACE			
10	3	CB		225	SEE ONE-LINE			PREPARED SPACE			
11	3	CB		100	SEE ONE-LINE			PREPARED SPACE			
12	3	CB		100	SEE ONE-LINE			PREPARED SPACE			
13											
14											
15											
16											
17											
18											
19											
20											
21											
								CONNECTED LOAD	338	338	338
								TOTAL KVA	1014		
								AMPS	1219.7		

NOTES: *PROVIDE SHUNT TRIP CIRCUIT BREAKER FOR ELEVATOR SHUTDOWN FUNCTION.

FEEDER
- [X] STANDARD CU/AL HEXSET SCREW MECHANICAL LUGS
- [ ] CU/AL COMPRESSION LUGS

HOUSEKEEPING PAD
- [X] 3-1/2" HIGH, 3000 PSI CONC, 6X6X6/6 MESH, 45 DEG CHAMFER ALL EDGES, BROOM FINISH
- [ ] 5-1/2" HIGH, 3000 PSI CONC, 6X6X6/6 MESH, 45 DEG CHAMFER ALL EDGES, BROOM FINISH

METERING
- [ ] NONE
- [X] DIGITAL, POWER METER FED FROM SOURCE INSIDE SWBD
- [ ] ANALOG, AMMETER, VOLTMETER, WATTHOUR METER

ACCESSORIES
- [ ] MIMIC BUS
- [ ] CUBICLE HEATERS, 120 VOLTS, 150 WATTS PER VERTICAL SECTION
- [ ] POWERED FROM SELF-CONTAINED SOURCE IN SWBD. PROVIDE FUSED CPT.

PANEL SCHEDULE

PANEL: H1A1
LOCATION:

VOLTAGE
- [X] 480/277, 3PH, 4W, WYE
- [ ] 208/120V, 3PH, 4W, WYE
- [ ] 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
- [ ] FACTORY MAIN CIRCUIT BREAKER
- [ ] SHUNT TRIP MAIN CB
- [X] MAIN LUGS ONLY
- [ ] UL LISTED FEED-THRU LUGS
- [ ] FURNISH WITH INTEGRAL SURGE PROTECTION DEVICE

400 AMP

NEUTRAL: [X] 100% [ ] 200%
MOUNTING: [X] SURFACE [X] FLUSH
ENCLOSURE: [X] NEMA 1 [ ] NEMA 3R
- [X] LOCKABLE COVER
FEED
- [ ] TOP
- [ ] BOTTOM
BRANCHES
- [X] BOLT-ON, PANELBOARD CONSTR.
- [ ] STAB-IN, PANELBOARD CONSTR.
- [ ] FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5

PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING: 30,000
- [X] FULLY RATED
- [ ] SERIES RATED

FURNISH GROUND BAR KIT
- [ ] ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
- [ ] SERVICE ENTRANCE LABEL
- [X] PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
  USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
  USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO/YR. INSTALLED, 4 LINES
- [X] BLACK FIELD, WHITE LETTERS
- [ ] RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	1	20	FIRST FLOOR WEST WING LIGHTS	2353			L	M	32500			PANEL H1A2	150	3	2
3	1	20	FIRST FLOOR CORRIDOR LIGHTS		1016		L	M		31250		-	-	-	4
5	1	20	FIRST FLOOR SOUTHEAST WING LIGHTS			2842	L	M			29500	-	-	-	6
7	1	20	EXTERIOR LIGHTS	296			L	E	5000			PTAC 1-9 105	25	1	8
9	1	20	LIGHT POLES		731		L	E		5000		PTAC 1-10 105	25	1	10
11	1	20	SPARE					E			5000	PTAC 1-11 106	25	1	12
13	1	20	FIRST FLOOR NORTHEAST WING LIGHTS	1325			L	E	5000			PTAC 1-12 106	25	1	14
15	1	20	SPARE					E		5000		PTAC 1-19 119	25	1	16
17	1	20	SPARE					E			5000	PTAC 1-20 119	25	1	18
19	3	60	DOAS 1-1	3915			E	E	3000			EUH 10	20	1	20
21	-	-	-		3915		E					SPACE			22
23	-	-	-			3915	E					SPACE			24
25	3	100	PREPARED SPACE									PREPARED SPACE	100	3	26
27	-	-	-									-	-	-	28
29	-	-	-									-	-	-	30
31	3	30	PUMP STATION	4212			M	M	32600			PANEL L1A1	175	3	32
33	-	-	-		4212		M	M		32600		-	-	-	34
35	-	-	-			4212	M	M			32600	-	-	-	36
37			SPACE									SPD	60	3	38
39			SPACE									-	-	-	40
41			SPACE									-	-	-	42
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	12101	9874	10969	SUBTOTAL EVEN SIDE		78100	73850	72100				
IF FUSIBLE SWITCHES							PHASE LOAD		90201	83724	83069				
REMARKS:							TOTAL VA			256994					

* PROVIDE GFI CIRCUIT BREAKER

LCL = 8563 — VA x 1.25 = 10704 VA
KITCHEN LOAD 0 VA *
MISC. LOAD 203686 VA
RECEPTACLE LOAD 0 VA
AC= 0 VA= HEAT= 55931.25 VA = 55931 VA
AHU= 0 VA x 1.25 0 VA
TOTAL LOAD 270321 VA
TOTAL AMPS 325

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

PANEL SCHEDULE

PANEL: H1A2
LOCATION:

VOLTAGE
- [X] 480/277, 3PH, 4W, WYE
- [ ] 208/120V, 3PH, 4W, WYE
- [ ] 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
- [ ] FACTORY MAIN CIRCUIT BREAKER
- [ ] SHUNT TRIP MAIN CB
- [X] MAIN LUGS ONLY
- [ ] UL LISTED FEED-THRU LUGS
- [ ] FURNISH WITH INTEGRAL SURGE PROTECTION DEVICE

225 AMP

NEUTRAL: [X] 100% [ ] 200%
MOUNTING: [X] SURFACE [ ] FLUSH
ENCLOSURE: [X] NEMA 1 [ ] NEMA 3R
- [X] LOCKABLE COVER
FEED
- [ ] TOP
- [ ] BOTTOM
BRANCHES
- [X] BOLT-ON, PANELBOARD CONSTR.
- [ ] STAB-IN, PANELBOARD CONSTR.
- [ ] FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5

PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING: 14,000
- [X] FULLY RATED
- [ ] SERIES RATED

FURNISH GROUND BAR KIT
- [ ] ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
- [ ] SERVICE ENTRANCE LABEL
- [X] PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
  USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
  USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO/YR. INSTALLED, 4 LINES
- [X] BLACK FIELD, WHITE LETTERS
- [ ] RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	3	90	AHU 3-1	18775			E	M				PANEL H1B2	200	3	2
3	-	-	-		18775		E	M		8300		-	-	-	4
5	-	-	-			18775	E	M			8300	-	-	-	6
7	3	90	AHU 3-2	18775			E	M	6000			EWH-2	30	3	8
9	-	-	-		18775		E	M		6000		-	-	-	10
11	-	-	-			18775	E	M			6000	-	-	-	12
13	3	60	AHU 3-3	13000			E	A	9145			CU 3-1	40	3	14
15	-	-	-		13000		E	A		9145		-	-	-	16
17	-	-	-			13000	E	A			9145	-	-	-	18
19	3	20	MAU-1	2108			F	A	9145			CU 3-2	40	3	20
21	-	-	-		2106		F	A		9145		-	-	-	22
23	-	-	-			2106	F	A			9145	-	-	-	24
25	3	30	KEF-1	3050			F	A	5545			CU 3-3	25	3	26
27	-	-	-		3050		F	A		5545		-	-	-	28
29	-	-	-			3050	F	A			5545	-	-	-	30
31	3	60	AHU 3-4	13000			E	A	5545			CU 3-4	25	3	32
33	-	-	-		13000		E	A		5545		-	-	-	34
35	-	-	-			13000	E	A			5545	-	-	-	36
37	3	250	PANEL L1B1/L1B2	39500			M					SPD	60	3	38
39	-	-	-		39500		M					-	-	-	40
41	-	-	-			39500	M					-	-	-	42
43	3	100	PREPARED SPACE									PREPARED SPACE	100	3	44
45	-	-	-									-	-	-	46
47	-	-	-									-	-	-	48
49	3	100	PREPARED SPACE									PREPARED SPACE	100	3	50
51	-	-	-									-	-	-	52
53	-	-	-									-	-	-	54
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	16000	15000	15000	SUBTOTAL EVEN SIDE		10000	10000	8600				
IF FUSIBLE SWITCHES							PHASE LOAD		26000	25000	23600				
REMARKS:							TOTAL VA			74600					

LCL = 0 — VA x 1.25 = 0 VA
KITCHEN LOAD 0 VA
MISC. LOAD 0 VA
RECEPTACLE LOAD 0 VA
AC= 0 VA= HEAT= 93250 VA = 93250 VA
AHU= 0 VA x 1.25 0 VA
TOTAL LOAD 93250 VA
TOTAL AMPS 112

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

PANEL SCHEDULE

PANEL: H1B1 (ALTERNATE 1)
LOCATION:

VOLTAGE
- [X] 480/277, 3PH, 4W, WYE
- [ ] 208/120V, 3PH, 4W, WYE
- [ ] 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
- [X] FACTORY MAIN CIRCUIT BREAKER
- [ ] SHUNT TRIP MAIN CB
- [ ] MAIN LUGS ONLY
- [ ] UL LISTED FEED-THRU LUGS
- [ ] MAIN FUSIBLE SWITCH, FURNISH FUSES
  - < 600A, CLASS RK5
  - > 600A, CLASS L

800 AMP

NEUTRAL: [X] 100% [ ] 200%
MOUNTING: [X] SURFACE [ ] FLUSH
ENCLOSURE: [X] NEMA 1 [ ] NEMA 3R
- [X] LOCKABLE COVER
FEED
- [ ] TOP
- [ ] BOTTOM
BRANCHES
- [X] BOLT-ON, PANELBOARD CONSTR.
- [ ] STAB-IN, PANELBOARD CONSTR.
- [ ] FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5

PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING: 30,000
- [X] FULLY RATED
- [ ] SERIES RATED

FURNISH GROUND BAR KIT
- [ ] ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
- [ ] SERVICE ENTRANCE LABEL
- [X] PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
  USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
  USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO/YR. INSTALLED, 4 LINES
- [X] BLACK FIELD, WHITE LETTERS
- [ ] RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	3	90	AHU 3-1	18775			E	M	8300			PANEL H1B2	200	3	2
3	-	-	-		18775		E	M		8300		-	-	-	4
5	-	-	-			18775	E	M			8300	-	-	-	6
7	3	90	AHU 3-2	18775			E	M	6000			EWH-2	30	3	8
9	-	-	-		18775		E	M		6000		-	-	-	10
11	-	-	-			18775	E	M			6000	-	-	-	12
13	3	60	AHU 3-3	13000			E	A	9145			CU 3-1	40	3	14
15	-	-	-		13000		E	A		9145		-	-	-	16
17	-	-	-			13000	E	A			9145	-	-	-	18
19	3	20	MAU-1	2108			F	A	9145			CU 3-2	40	3	20
21	-	-	-		2106		F	A		9145		-	-	-	22
23	-	-	-			2106	F	A			9145	-	-	-	24
25	3	30	KEF-1	3050			F	A	5545			CU 3-3	25	3	26
27	-	-	-		3050		F	A		5545		-	-	-	28
29	-	-	-			3050	F	A			5545	-	-	-	30
31	3	60	AHU 3-4	13000			E	A	5545			CU 3-4	25	3	32
33	-	-	-		13000		E	A		5545		-	-	-	34
35	-	-	-			13000	E	A			5545	-	-	-	36
37	3	100	PREPARED SPACE	39500			M					SPD	60	3	38
39	-	-	-		39500		M					-	-	-	40
41	-	-	-			39500	M					-	-	-	42
43	3	100	PREPARED SPACE									PREPARED SPACE	100	3	44
45	-	-	-									-	-	-	46
47	-	-	-									-	-	-	48
49	3	100	PREPARED SPACE									PREPARED SPACE	100	3	50
51	-	-	-									-	-	-	52
53	-	-	-									-	-	-	54
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	108206	108206	108206	SUBTOTAL EVEN SIDE		43680	43680	43680				
IF FUSIBLE SWITCHES							PHASE LOAD		151886	151886	151886				
REMARKS:							TOTAL VA			455658					

LCL = 0 — VA x 1.25 = 0 VA
KITCHEN LOAD 0 VA
MISC. LOAD 161400 VA
RECEPTACLE LOAD 0 VA
AC= 110175 VA= HEAT= 238312.5 VA = 238313 VA
AHU= 15468 VA x 1.25 19335 VA
TOTAL LOAD 419048 VA
TOTAL AMPS 504

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

PANEL SCHEDULE

PANEL: H1B1 (BASE BID)
LOCATION:

VOLTAGE
- [X] 480/277, 3PH, 4W, WYE
- [ ] 208/120V, 3PH, 4W, WYE
- [ ] 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
- [X] FACTORY MAIN CIRCUIT BREAKER
- [ ] SHUNT TRIP MAIN CB
- [ ] MAIN LUGS ONLY
- [ ] UL LISTED FEED-THRU LUGS
- [X] MAIN FUSIBLE SWITCH, FURNISH FUSES
  - < 600A, CLASS RK5
  - > 600A, CLASS L

800 AMP

NEUTRAL: [X] 100% [ ] 200%
MOUNTING: [X] SURFACE [ ] FLUSH
ENCLOSURE: [X] NEMA 1 [ ] NEMA 3R
- [X] LOCKABLE COVER
FEED
- [ ] TOP
- [ ] BOTTOM
BRANCHES
- [X] BOLT-ON, PANELBOARD CONSTR.
- [ ] STAB-IN, PANELBOARD CONSTR.
- [ ] FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5

PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING: 30,000
- [X] FULLY RATED
- [ ] SERIES RATED

FURNISH GROUND BAR KIT
- [ ] ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
- [ ] SERVICE ENTRANCE LABEL
- [X] PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
  USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
  USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO/YR. INSTALLED, 4 LINES
- [X] BLACK FIELD, WHITE LETTERS
- [ ] RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	3	90	AHU 3-1	18775			E	M	5250			PANEL H1B2	200	3	2
3	-	-	-		18775		E	M		5250		-	-	-	4
5	-	-	-			18775	E	M			5250	-	-	-	6
7	3	90	AHU 3-2	18775			E	M	6000			EWH-2	30	3	8
9	-	-	-		18775		E	M		6000		-	-	-	10
11	-	-	-			18775	E	M			6000	-	-	-	12
13	3	60	AHU 3-3	13000			E	A	9145			CU 3-1	40	3	14
15	-	-	-		13000		E	A		9145		-	-	-	16
17	-	-	-			13000	E	A			9145	-	-	-	18
19	3	20	SPARE					A	9145			CU 3-2	40	3	20
21	-	-	-					A		9145		-	-	-	22
23	-	-	-					A			9145	-	-	-	24
25	3	30	SPARE					A	5545			CU 3-3	25	3	26
27	-	-	-					A		5545		-	-	-	28
29	-	-	-					A			5545	-	-	-	30
31	3	250	PANEL L1B1/L1B2	36000			M					PREPARED SPACE	100	3	32
33	-	-	-		36000		M					-	-	-	34
35	-	-	-			36000	M					-	-	-	36
37	3	100	PREPARED SPACE									SPD	60	3	38
39	-	-	-									-	-	-	40
41	-	-	-									-	-	-	42
43	3	100	PREPARED SPACE									PREPARED SPACE	100	3	44
45	-	-	-									-	-	-	46
47	-	-	-									-	-	-	48
49	3	100	PREPARED SPACE									PREPARED SPACE	100	3	50
51	-	-	-									-	-	-	52
53	-	-	-									-	-	-	54
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	86550	86550	86550	SUBTOTAL EVEN SIDE		35085	35085	35085				
IF FUSIBLE SWITCHES							PHASE LOAD		121635	121635	121635				
REMARKS:							TOTAL VA			364905					

LCL = 0 — VA x 1.25 = 0 VA
KITCHEN LOAD 0 VA
MISC. LOAD 141750 VA
RECEPTACLE LOAD 0 VA
AC= 89381 VA= HEAT= 189562.5 VA = 189563 VA
AHU= 0 VA x 1.25 0 VA
TOTAL LOAD 331313 VA
TOTAL AMPS 399

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

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19452 LA-22, PONCHATOULA, LA 70454

STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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BID DOCUMENTS

E401

PANEL SCHEDULES

H/S

CEG
CREATIVE ENGINEERING GROUP
201 HIGHLAND PARK PLAZA
COVINGTON, LA 70433
985.249.5706 WWW.CEG-ITL.COM
PROJECT NO: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

10/7/2026 4:10:46 PM

Autodesk Docs://PHS 18 Classroom Add & Cafeteria/PHS CLASSROOM ADDITIONS_ELECTRICAL_bryanl@ceg-itl.com.rvt

1" 1/2" 0" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

PANEL SCHEDULE

PANEL H1B2 (ALTERNATE #1)
LOCATION

VOLTAGE [X] 480/277, 3PH, 4W, WYE
[ ] 208/120V, 3PH, 4W, WYE
[ ] 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
225 AMP
[ ] FACTORY MAIN CIRCUIT BREAKER
[ ] SHUNT TRIP MAIN CB
[X] MAIN LUGS ONLY
[ ] UL LISTED FEED-THRU LUGS
[ ] FURNISH WITH INTEGRAL SURGE PROTECTION DEVICE

NEUTRAL [X] 100% [ ] 200%
MOUNTING [X] SURFACE [ ] FLUSH
ENCLOSURE [X] NEMA 1 [ ] NEMA 3R
[X] LOCKABLE COVER
FEED [ ] TOP [ ] BOTTOM
BRANCHES [X] BOLT-ON, PANELBOARD CONSTR.
[ ] STAB-IN, PANELBOARD CONSTR.
[ ] FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING 25,000
[X] FULLY RATED
[ ] SERIES RATED

FURNISH GROUND BAR KIT
[ ] ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
[ ] SERVICE ENTRANCE LABEL
[X] PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO/YR. INSTALLED, 4 LINES
[X] BLACK FIELD, WHITE LETTERS
[ ] RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	1	20	CAFETERIA LIGHTS	1059			L	E	3000			EUH 7	20	1	2
3	1	20	KITCHEN LIGHTS		2499		L	E		3000		EUH 8	20	1	4
5	1	20	EXTERIOR LIGHTS			1332	L	E			3000	EUH 9	20	1	6
7	1	20	SPARE					E	3000			EUH 10	20	1	8
9	1	20	SPARE									SPARE	20	1	10
11	1	20	SPARE					E			3000	EUH 11	20	1	12
13	1	20	SPARE									PREPARED SPACE	100	3	14
15	1	20	SPARE									-	-	-	16
17	1	20	SPARE									-	-	-	18
19	1	20	SPARE									PREPARED SPACE	100	3	20
21	1	20	SPARE									-	-	-	22
23	1	20	SPARE									-	-	-	24
25	3	100	PREPARED SPACE									SPD	60	3	26
27	-	-	-									-	-	-	28
29	-	-	-									-	-	-	30
31															32
33															34
35															36
37															38
39															40
41															42
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	1059	2499	1332	SUBTOTAL EVEN SIDE		6000	3000	6000				
IF FUSIBLE SWITCHES			PHASE LOAD		7059	5499	7332								
REMARKS:			TOTAL VA			19890									

LCL = 4890 VA x 1.25 = 6113 VA
KITCHEN LOAD 0 VA *
MISC. LOAD 0 VA
RECEPTACLE LOAD 0 VA
AC= 0 VA= /HEAT= 18750 VA = 18750 VA
AHU= 0 VA x 1.25 0 VA
TOTAL LOAD 24863 VA
TOTAL AMPS 30

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

PANEL SCHEDULE

PANEL H1B2 (BASE BID)
LOCATION

VOLTAGE [X] 480/277, 3PH, 4W, WYE
[ ] 208/120V, 3PH, 4W, WYE
[ ] 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
225 AMP
[ ] FACTORY MAIN CIRCUIT BREAKER
[ ] SHUNT TRIP MAIN CB
[X] MAIN LUGS ONLY
[ ] UL LISTED FEED-THRU LUGS
[ ] FURNISH WITH INTEGRAL SURGE PROTECTION DEVICE

NEUTRAL [X] 100% [ ] 200%
MOUNTING [X] SURFACE [ ] FLUSH
ENCLOSURE [X] NEMA 1 [ ] NEMA 3R
[X] LOCKABLE COVER
FEED [ ] TOP [ ] BOTTOM
BRANCHES [X] BOLT-ON, PANELBOARD CONSTR.
[ ] STAB-IN, PANELBOARD CONSTR.
[ ] FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING 25,000
[X] FULLY RATED
[ ] SERIES RATED

FURNISH GROUND BAR KIT
[ ] ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
[ ] SERVICE ENTRANCE LABEL
[X] PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO/YR. INSTALLED, 4 LINES
[X] BLACK FIELD, WHITE LETTERS
[ ] RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	1	20	CAFETERIA LIGHTS	1059			L	E	3000			EUH 7	20	1	2
3	1	20	KITCHEN LIGHTS		1946		L	E		3000		EUH 8	20	1	4
5	1	20	EXTERIOR LIGHTS			570	L	E			3000	EUH 9	20	1	6
7	1	20	SPARE									PREPARED SPACE	100	3	8
9	1	20	SPARE									-	-	-	10
11	1	20	SPARE									-	-	-	12
13	1	20	SPARE									PREPARED SPACE	100	3	14
15	1	20	SPARE									-	-	-	16
17	1	20	SPARE									-	-	-	18
19	1	20	SPARE									PREPARED SPACE	100	3	20
21	1	20	SPARE									-	-	-	22
23	1	20	SPARE									-	-	-	24
25			SPACE									SPD	60	3	26
27			SPACE									-	-	-	28
29			SPACE									-	-	-	30
31															32
33															34
35															36
37															38
39															40
41															42
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	1059	1946	570	SUBTOTAL EVEN SIDE		3000	3000	3000				
IF FUSIBLE SWITCHES			PHASE LOAD		4059	4946	3570								
REMARKS:			TOTAL VA			12575									

LCL = 3575 VA x 1.25 = 4469 VA
KITCHEN LOAD 0 VA *
MISC. LOAD 0 VA
RECEPTACLE LOAD 0 VA
AC= 0 VA= /HEAT= 11250 VA = 11250 VA
AHU= 0 VA x 1.25 0 VA
TOTAL LOAD 15719 VA
TOTAL AMPS 19

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

PANEL SCHEDULE

PANEL H2A1
LOCATION

VOLTAGE [X] 480/277, 3PH, 4W, WYE
[ ] 208/120V, 3PH, 4W, WYE
[ ] 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
400 AMP
[X] FACTORY MAIN CIRCUIT BREAKER
[ ] SHUNT TRIP MAIN CB
[X] MAIN LUGS ONLY
[ ] UL LISTED FEED-THRU LUGS
[ ] FURNISH WITH INTEGRAL SURGE PROTECTION DEVICE

NEUTRAL [X] 100% [ ] 200%
MOUNTING [X] SURFACE [ ] FLUSH
ENCLOSURE [X] NEMA 1 [ ] NEMA 3R
[X] LOCKABLE COVER
FEED [ ] TOP [ ] BOTTOM
BRANCHES [X] BOLT-ON, PANELBOARD CONSTR.
[ ] STAB-IN, PANELBOARD CONSTR.
[ ] FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING 30,000
[X] FULLY RATED
[ ] SERIES RATED

FURNISH GROUND BAR KIT
[ ] ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
[ ] SERVICE ENTRANCE LABEL
[X] PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO/YR. INSTALLED, 4 LINES
[X] BLACK FIELD, WHITE LETTERS
[ ] RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	1	20	SECOND FLOOR WEST WING LIGHTS	2160			L	M	28750			PANEL H2A2	150	3	2
3	1	20	SECOND FLOOR CORRIDOR LIGHTS		1359		L	M		35000		-	-	-	4
5	1	20	SECOND FLR SOUTHEAST WING LIGHTS			2849	L	M			35000	-	-	-	6
7	1	20	SPARE					E	5000			PTAC 2-9 206	25	1	8
9	1	20	SECOND FLR NORTHEAST WING LIGHTS		1176		L	E		5000		PTAC 2-10 206	25	1	10
11	1	20	SPARE					E			5000	PTAC 2-11 207	25	1	12
13	1	20	SPARE					E	5000			PTAC 2-12 207	25	1	14
15	1	20	SPARE					E		5000		PTAC 2-19 218	25	1	16
17	1	20	SPARE					E			5000	PTAC 2-20 218	25	1	18
19	1	20	SPARE					E	3600			PTAC 2-21 217A	20	1	20
21	1	20	SPARE					E		3000		EUH 6	20	1	22
23	1	20	SPARE					E			3000	EUH 3	20	1	24
25			SPACE					E	3000			EUH 2	20	1	26
27			SPACE									SPARE	30	1	28
29			SPACE									SPARE	30	1	30
31			SPACE					M	16850			PANEL L2A1	125	3	32
33			SPACE					M		16850		-	-	-	34
35			SPACE					M			16850	-	-	-	36
37			SPACE									SPD	60	3	38
39			SPACE										-	-	40
41			SPACE										-	-	42
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	2160	2535	2849	SUBTOTAL EVEN SIDE		62200	64850	64850				
IF FUSIBLE SWITCHES			PHASE LOAD		64360	67385	67699								
REMARKS:			TOTAL VA			199444									

* PROVIDE GFI CIRCUIT BREAKER

LCL = 7544 VA x 1.25 = 9430 VA
KITCHEN LOAD 0 VA *
MISC. LOAD 149300 VA
RECEPTACLE LOAD 0 VA
AC= 0 VA= /HEAT= 53250 VA = 53250 VA
AHU= 0 VA x 1.25 0 VA
TOTAL LOAD 211980 VA
TOTAL AMPS 255

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

PANEL SCHEDULE

PANEL H2A2
LOCATION

VOLTAGE [X] 480/277, 3PH, 4W, WYE
[ ] 208/120V, 3PH, 4W, WYE
[ ] 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
225 AMP
[ ] FACTORY MAIN CIRCUIT BREAKER
[ ] SHUNT TRIP MAIN CB
[X] MAIN LUGS ONLY
[ ] UL LISTED FEED-THRU LUGS
[ ] FURNISH WITH INTEGRAL SURGE PROTECTION DEVICE

NEUTRAL [X] 100% [ ] 200%
MOUNTING [X] SURFACE [ ] FLUSH
ENCLOSURE [X] NEMA 1 [ ] NEMA 3R
[X] LOCKABLE COVER
FEED [ ] TOP [ ] BOTTOM
BRANCHES [X] BOLT-ON, PANELBOARD CONSTR.
[ ] STAB-IN, PANELBOARD CONSTR.
[ ] FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING 14,000
[X] FULLY RATED
[ ] SERIES RATED

FURNISH GROUND BAR KIT
[ ] ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
[ ] SERVICE ENTRANCE LABEL
[X] PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO/YR. INSTALLED, 4 LINES
[X] BLACK FIELD, WHITE LETTERS
[ ] RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	1	25	PTAC 2-1 201	5000			E	E	5000			PTAC 2-13 208	25	1	2
3	1	25	PTAC 2-2 201		5000		E	E		5000		PTAC 2-14 208	25	1	4
5	1	25	PTAC 2-3 202			5000	E	E			5000	PTAC 2-15 209	25	1	6
7	1	25	PTAC 2-4 202	5000			E	E	5000			PTAC 2-16 209	25	1	8
9	1	25	PTAC 2-5 203		5000		E	E		5000		PTAC 2-17 210	25	1	10
11	1	25	PTAC 2-6 203			5000	E	E			5000	PTAC 2-18 210	25	1	12
13	1	25	SPARE									SPARE	25	1	14
15	1	25	PTAC 2-7 205		5000		E					SPARE	25	1	16
17	1	25	PTAC 2-8 205			5000	E					SPARE	25	1	18
19	1	20	EUH 1	3000			E					SPACE			20
21	1	20	EUH 4		3000		E					SPACE			22
23	1	20	EUH 5			3000	E					SPACE			24
25	1	20	SPARE									SPACE			26
27	1	20	SPARE									SPACE			28
29	1	20	SPARE									SPACE			30
31	1	20	SPARE									SPACE			32
33	1	20	SPARE									SPACE			34
35	1	20	SPARE									SPACE			36
37	1	20	SPARE									SPD	60	3	38
39	1	20	SPARE									-	-	-	40
41	1	20	SPARE									-	-	-	42
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	13000	18000	18000	SUBTOTAL EVEN SIDE		10000	10000	10000				
IF FUSIBLE SWITCHES			PHASE LOAD		23000	28000	28000								
REMARKS:			TOTAL VA			79000									

LCL = 0 VA x 1.25 = 0 VA
KITCHEN LOAD 0 VA *
MISC. LOAD 0 VA
RECEPTACLE LOAD 0 VA
AC= 0 VA= /HEAT= 98750 VA = 98750 VA
AHU= 0 VA x 1.25 0 VA
TOTAL LOAD 98750 VA
TOTAL AMPS 119

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

PANEL SCHEDULE

PANEL HDP
LOCATION

VOLTAGE [X] 480/277, 3PH, 4W, WYE
[ ] 208/120V, 3PH, 4W, WYE
[ ] 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
225 AMP
[ ] FACTORY MAIN CIRCUIT BREAKER
[X] MAIN LUGS ONLY
[ ] UL LISTED FEED-THRU LUGS
[ ] FURNISH WITH INTEGRAL SURGE PROTECTION DEVICE

NEUTRAL [X] 100% [ ] 200%
MOUNTING [X] SURFACE [ ] FLUSH
ENCLOSURE [X] NEMA 1 [ ] NEMA 3R
[X] LOCKABLE COVER
FEED [ ] TOP [ ] BOTTOM
BRANCHES [X] BOLT-ON, PANELBOARD CONSTR.
[ ] STAB-IN, PANELBOARD CONSTR.
[ ] FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING 30,000
[X] FULLY RATED
[ ] SERIES RATED

FURNISH GROUND BAR KIT
[ ] ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
[ ] SERVICE ENTRANCE LABEL
[X] PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO/YR. INSTALLED, 4 LINES
[X] BLACK FIELD, WHITE LETTERS
[ ] RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	3	60	DOAS 1-1	3915			E	M	6000			EWH-1	30	3	2
3	-	-	-		3915		E	M		6000		-	-	-	4
5	-	-	-			3915	E	M			6000	-	-	-	6
7	3	60	DOAS 2-1	3915			E	M	582			JOCKEY PUMP	20	3	8
9	-	-	-		3915		E	M		582		-	-	-	10
11	-	-	-			3915	E	M			582	-	-	-	12
13	3	45	AHU 2-1	9275			E	A	6375			DOAS 1-1 CU	30	3	14
15	-	-	-		9275		E	A		6375		-	-	-	16
17	-	-	-			9275	E	A			6375	-	-	-	18
19			SPACE					A	6375			DOAS 2-1 CU	30	3	20
21			SPACE					A		6375		-	-	-	22
23			SPACE					A			6375	-	-	-	24
25			SPACE									SPACE			26
27			SPACE									SPACE			28
29			SPACE									SPACE			30
31			SPACE									SPACE			32
33			SPACE									SPACE			34
35			SPACE									SPACE			36
37			SPACE									SPD	60	3	38
39			SPACE									-	-	-	40
41			SPACE									-	-	-	42
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	17105	17105	17105	SUBTOTAL EVEN SIDE		19332	19332	19332				
IF FUSIBLE SWITCHES			PHASE LOAD		36437	36437	36437								
REMARKS:			TOTAL VA			109311									

LCL = 0 VA x 1.25 = 0 VA
KITCHEN LOAD 0 VA *
MISC. LOAD 19746 VA
RECEPTACLE LOAD 0 VA
AC= 47813 VA= /HEAT= 64143.75 VA = 64144 VA
AHU= 0 VA x 1.25 0 VA
TOTAL LOAD 83890 VA
TOTAL AMPS 101

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

PANEL SCHEDULE

PANEL L1A1
LOCATION

VOLTAGE [ ] 480/277, 3PH, 4W, WYE
[X] 208/120V, 3PH, 4W, WYE
[X] 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
400 AMP
[X] FACTORY MAIN CIRCUIT BREAKER
[ ] SHUNT TRIP MAIN CB
[ ] MAIN LUGS ONLY
[ ] UL LISTED FEED-THRU LUGS
[ ] FURNISH WITH INTEGRAL SURGE PROTECTION DEVICE
[ ] FUSIBLE SWITCH, FURNISH FUSES
< 600A, CLASS RK5
> 600A, CLASS L

NEUTRAL [X] 100% [ ] 200%
MOUNTING [X] SURFACE [ ] FLUSH
ENCLOSURE [X] NEMA 1 [ ] NEMA 3R
[X] LOCKABLE COVER
FEED [ ] TOP [ ] BOTTOM
BRANCHES [X] BOLT-ON, PANELBOARD CONSTR.
[ ] STAB-IN, PANELBOARD CONSTR.
[ ] FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING 10,000
[X] FULLY RATED
[ ] SERIES RATED

FURNISH GROUND BAR KIT
[ ] ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
[ ] SERVICE ENTRANCE LABEL
[X] PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE FED FROM, MO/YR. INSTALLED, 4 LINES
[X] BLACK FIELD, WHITE LETTERS
[ ] RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	1	20	CLASSROOM 119 OUTLETS	900			R	R	900			CLASSROOM 106 OUTLETS	20	1	2
3	1	20	CLASSROOM 119 TEACHER DESK		800		M	M		800		CLASSROOM 106 TEACHER DESK	20	1	4
5	1	20	CLASSROOM 119 SMARTBOARD			800	M	M			800	CLASSROOM 106 SMARTBOARD	20	1	6
7	1	20	CLASSROOM 119 LAPTOP CART	800			M	M	800			CLASSROOM 106 LAPTOP CART	20	1	8
9	1	20	CORRIDOR/ELEC RM OUTLETS		1260		R	R		900		CLASSROOM 105 OUTLETS	20	1	10
11	1	20	STORAGE 118 & JAN RM OUTLETS			720	R	M			800	CLASSROOM 105 TEACHER DESK	20	1	12
13	1	20	RESTROOM & STORAGE 115 OUTLETS	900			R	M	800			CLASSROOM 105 SMARTBOARD	20	1	14
15	1	20	HVAC CONTROL PANEL		800		M	M		800		CLASSROOM 105 LAPTOP CART	20	1	16
17	1	20	GIRLS 114 HAND DRYER			1000	M	R			900	CLASSROOM 104 OUTLETS	20	1	18
19	1	20	GIRLS 114 HAND DRYER	1000			M	M	800			CLASSROOM 104 TEACHER DESK	20	1	20
21	1	20	BOYS 113 HAND DRYER		1000		M	M		800		CLASSROOM 104 SMARTBOARD	20	1	22
23	1	20	BOYS 113 HAND DRYER			1000	M	M			800	CLASSROOM 104 LAPTOP CART	20	1	24
25	1	20	ELEVATOR PIT OUTLET	180			M	M	528			EF-11	20	1	26
27	1	20	ELEVATOR SUMP PUMP		1175		M	M		864		EF-12	20	1	28
29	1	20*	WATER COOLER			600	M	M			400	MECHANICAL ROOM OUTLET	20	1	30
31	1	20*	WATER COOLER	600			M	E	957			MSCU 1-3	20	2	32
33	1	20	ELEVATOR PIT LIGHT		100		L	E		957		-	-	-	34
35	1	20	ACCESS CONTROLLED DOOR			500	M	E			957	MSCU 2-3	20	2	36
37	1	20	HWRP-1	528			M	E	957			-	-	-	38
39	2	50	AHU 1-1		4000		E	E		1520		MSCU 2-2	20	2	40
41	-	-	-			4000	E	E			1520	-	-	-	42
43	2	25	CU 1-1	1664			A	E	957			MSCU 1-4	20	2	44
45	-	-	-		1664		A	E		957		-	-	-	46
47	2	20	CU 2-1			1664	A	M			1500	GENERATOR JACKET HEATER	20	1	48
49	-	-	-	1664			A	M	800			GENERATOR BATTERY CHARGER	20	1	50
51	2	20	MSCU 1-2		1518		E	M		400		GENERATOR SPACE HEATERS	20	1	52
53	-	-	-			1518	E	M			750	BACKFLOW PREVENTER HEATER	20	2	54
55	1	20	SPARE					M	750			-	-	-	56
57	1	20	SPARE					E		957		MSCU 2-4	20	2	58
59	1	20	SPARE					E			957	-	-	-	60
61	1	20	SPARE					M	13300			PANEL L1A2	200	3	62
63	1	20	SPARE					M		13300		-	-	-	64
65	1	20	SPARE								13300	-	-	-	66
67	1	20	SPARE									SPD	60	3	68
69	1	20	SPARE									-	-	-	70
71	1	20	SPARE									-	-	-	72
73	1	20	SPARE									SPACE			74
75	1	20	SPARE									SPACE			76
77	1	20	SPARE									SPACE			78
79	1	20	SPARE									SPACE			80
81	1	20	SPARE									SPACE			82
83	1	20	SPARE									SPACE			84
TRIP AMPS = FUSE SIZI			SUBTOTAL ODD SIDE	8236	12317	11802	SUBTOTAL EVEN SIDE		21549	22255	22684				
IF FUSIBLE SWITCHES			PHASE LOAD		29785	34572	34486								
REMARKS:			TOTAL VA			98843									

* PROVIDE GFI CIRCUIT BREAKER

LCL = 100 VA x 1.25 = 125 VA
KITCHEN LOAD 0 VA
MISC. LOAD 63875 VA
RECEPTACLE LOAD 6480 VA
AC= 8320 VA= /HEAT= 27165 VA = 27165 VA
AHU= 0 VA x 1.25 0 VA
TOTAL LOAD 97645 VA
TOTAL AMPS 271

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

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STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	BFL
QUALITY CONTROL	RHN

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BID DOCUMENTS

E402

PANEL SCHEDULES

H/S

CEG
CREATIVE ENGINEERING GROUP
201 HIGHLAND PARK PLAZA
COVINGTON, LA 70433
985.249.5706 WWW.CEG-ITL.COM
PROJECT NO: HS1881-25
ENGINEER: RAYMOND H. NOLAN
LICENSE

PANEL SCHEDULE

PANEL L1A2
LOCATION

VOLTAGE ☐ 480/277, 3PH, 4W, WYE
☒ 208/120V, 3PH, 4W, WYE
☐ 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
225 **AMP** ☐ FACTORY MAIN CIRCUIT BREAKER
☐ SHUNT TRIP MAIN CB
☒ MAIN LUGS ONLY
☐ UL LISTED FEED-THRU LUGS
☐ MAIN FUSIBLE SWITCH, FURNISH FUSES
< 600A, CLASS RK5
> 600A, CLASS L

NEUTRAL ☒ 100% ☐ 200%
MOUNTING ☒ SURFACE
☐ FLUSH
ENCLOSURE ☒ NEMA 1 ☐ NEMA 3R
☒ LOCKABLE COVER
FEED ☐ TOP
☐ BOTTOM
BRANCHES ☒ BOLT-ON, PANELBOARD CONSTR.
☐ STAB-IN, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

FURNISH GROUND BAR KIT
☐ ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
☐ SERVICE ENTRANCE LABEL
☒ PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE
FED FROM, MOVYR. INSTALLED, 4 LINES
☒ BLACK FIELD, WHITE LETTERS
☐ RED FIELD, WHITE LETTERS

AIC RATING 10,000
☒ FULLY RATED
☐ SERIES RATED

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	1	20	CLASSROOM 107 OUTLETS	900			R	R	900			CLASSROOM 103 OUTLETS	20	1	2
3	1	20	CLASSROOM 107 TEACHER DESK		800		M	M		800		CLASSROOM 103 TEACHER DESK	20	1	4
5	1	20	CLASSROOM 107 SMARTBOARD			800	M	M			800	CLASSROOM 103 SMARTBOARD	20	1	6
7	1	20	CLASSROOM 107 LAPTOP CART	800			M	M	800			CLASSROOM 103 LAPTOP CART	20	1	8
9	1	20	CLASSROOM 108 LAPTOP CART		800		M	R		900		CLASSROOM 102 OUTLETS	20	1	10
11	1	20	CLASSROOM 108 SMARTBOARD			800	M	M			800	CLASSROOM 102 TEACHER DESK	20	1	12
13	1	20	CLASSROOM 108 TEACHER DESK	800			M	M	800			CLASSROOM 102 SMARTBOARD	20	1	14
15	1	20	CLASSROOM 108 OUTLETS		900		R	M		800		CLASSROOM 102 LAPTOP CART	20	1	16
17	1	20	SERVING 109 COUNTER			1000	M	R			900	CLASSROOM 101 OUTLETS	20	1	18
19	1	20	SERVING 109 COUNTER	1000			M	M	800			CLASSROOM 101 TEACHER DESK	20	1	20
21	1	20*	SERVING 109 REFRIGERATOR		800		M	M		800		CLASSROOM 101 SMARTBOARD	20	1	22
23	1	20	SERVING 103 COPIER			1500	M	M			800	CLASSROOM 101 LAPTOP CART	20	1	24
25	1	20	SERVING 103 COUNTER	800			M	R	720			OFFICE 110 OUTLETS	20	1	26
27	1	20	SERVING 103/STORAGE 111 OUTLETS		720		R	M		1500		IDF 1 RACK	20	1	28
29	1	20	CORRIDOR OUTLETS			1080	R	M			1500	IDF 1 RACK	20	1	30
31	1	20	ACCESS CONTROLLED DOORS	500			M	M	1500			DATA/ELEC CLOSET	20	1	32
33	1	20	ACCESS CONTROLLED DOORS		750		M	A		1520		MSCU 2-1	20	2	34
35	1	20	DOOR HOLD OPENS			500	M	A			1520	-	-	-	36
37	1	20	DOOR HOLD OPENS	500			M	A	1520			MSCU 1-1	20	2	38
39	1	20	AREA OF RESCUE		600		M	A		1520		-	-	-	40
41	1	20	FIRE ALARM			800	M					SPARE	20	1	42
43	1	20	SPARE									SPARE	20	1	44
45	1	20	SPARE									SPARE	20	1	46
47	1	20	SPARE									SPARE	20	1	48
49	1	20	SPARE									SPD	60	3	50
51	1	20	SPARE									-	-	-	52
53	1	20	SPARE									-	-	-	54
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	5300	5370	6480	SUBTOTAL EVEN SIDE		7040	7840	6320	LCL = 0	VA x 1.25 =	0	VA
IF FUSIBLE SWITCHES							PHASE LOAD		12340	13210	12800	KITCHEN LOAD		0	VA *
REMARKS:							TOTAL VA			38350		MISC. LOAD		25250	VA
			* PROVIDE GFI CIRCUIT BREAKER									RECEPTACLE LOAD		7020	VA
												AC= 7600 VA= HEAT= 0	VA =	7600	VA
												AHU= 0	VA x 1.25	0	VA
			A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN										TOTAL LOAD	39870	VA
			CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.										TOTAL AMPS	111	

PANEL SCHEDULE

PANEL L1B1 (ALTERNATE #1)
LOCATION

VOLTAGE ☐ 480/277, 3PH, 4W, WYE
☒ 208/120V, 3PH, 4W, WYE
☐ 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
225 **AMP** ☒ FACTORY MAIN CIRCUIT BREAKER
☐ SHUNT TRIP MAIN CB
☐ MAIN LUGS ONLY
☐ UL LISTED FEED-THRU LUGS
☐ MAIN FUSIBLE SWITCH, FURNISH FUSES
< 600A, CLASS RK5
> 600A, CLASS L

NEUTRAL ☒ 100% ☐ 200%
MOUNTING ☒ SURFACE
☐ FLUSH
ENCLOSURE ☒ NEMA 1 ☐ NEMA 3R
☒ LOCKABLE COVER
FEED ☐ TOP
☐ BOTTOM
BRANCHES ☒ BOLT-ON, PANELBOARD CONSTR.
☐ STAB-IN, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

FURNISH GROUND BAR KIT
☐ ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
☐ SERVICE ENTRANCE LABEL
☒ PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE
FED FROM, MOVYR. INSTALLED, 4 LINES
☒ BLACK FIELD, WHITE LETTERS
☐ RED FIELD, WHITE LETTERS

AIC RATING 10,000
☒ FULLY RATED
☐ SERIES RATED

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	1	20	IDF RACK	1500			M	R	720			KITCHEN RECEPTACLES	20	1	2
3	1	20	IDF RACK		1500		M	R		720		KITCHEN RECEPTACLES	20	1	4
5	1	20	DATA ROOM			1000	M	R			720	MECH, ELEC, & LAUNDRY RECPTACLES	20	1	6
7	3	60	SPD					R	1080			STORAGE AND RESTSROOM RECPTACLES	20	1	8
9	-	-	-					M		1500		APPLIANCE	20*	1	10
11	-	-	-					A			1520	MSCU 1-5	20	2	12
13	1	20	OFFICE 137 RECEPTACLES	720			R	A	1520			-	-	-	14
15	1	20	SPARE									SPARE	20	1	16
17	2	20	PASS THRU WARMER			1496	K	K			1496	PASS THRU WARMER	20	2	18
19	-	-	-	1498			K	K	1498			-	-	-	20
21	1	20*	PASS THRU REFRIGERATOR		1332		M	M		1332		REACH IN REFRIGERATOR	20*	1	22
23	1	20*	MOBILE PROOFER			1920	K	K			1500	COUNTER TOP APPLIANCE	20	1	24
25	1	20*	MOBILE PROOFER	1920			K	K	1500			COUNTER TOP APPLIANCE	20	1	26
27	1	20*	APPLIANCE		1500		K	K		672		SLICER	20*	1	28
29	1	20	COUNTER TOP APPLIANCE			1500	K					SPARE	20	1	30
31	1	20	COUNTER TOP APPLIANCE	1500			K	M	500			HOOD FAN CONTROL PANEL	20	1	32
33	3	20	40-QUART MIXER		673		K	A		957		MSCU 1-6	20	2	34
35	-	-	-			673	K	A			957	-	-	-	36
37	-	-	-	673			K	M	240			FREEZER DRAIN LINE HEATER	20	1	38
39	1	20	COOLER LIGHTS		708		M	M		1380		ICE MAKER	20	1	40
41	1	20	AIR CURTAIN			612	M	K			1500	COUNTER TOP APPLIANCE	20*	1	42
43	3	50	COOLER/FREEZER REFRIGERATION	4131			A	K	1440			COUNTER TOP FOOD PROCESSOR	20*	1	44
45	-	-			4131		A	M		3120		STACKED WASHER/DRYER	30	2	46
47	-	-				4131	A	M			3120	-	-	-	48
49	1	20	FREEZER LIGHTS	708			M	M	250			UDS SHUNT TRIP CIRCUIT	20	1	50
51	1	20	COOLER EVAP COIL		360		M	M		1238		FREEZER EVAP COIL	20	2	52
53	1	20	SPARE					M			1238			-	54
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	12650	10204	11334	SUBTOTAL EVEN SIDE		8748	10919	12053	LCL = 0	VA x 1.25 =	0	VA
IF FUSIBLE SWITCHES							PHASE LOAD		21398	21123	23387	KITCHEN LOAD		14926	VA
REMARKS:							TOTAL VA			65908		MISC. LOAD		21638	VA
			* PROVIDE GFI CIRCUIT BREAKER									RECEPTACLE LOAD		3960	VA
												AC= 21684 VA= HEAT= 0	VA =	21684	VA
												AHU= 0	VA x 1.25	0	VA
			A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN										TOTAL LOAD	62208	VA
			CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.										TOTAL AMPS	173	

PANEL SCHEDULE

PANEL L1B1 (BASE BID)
LOCATION

VOLTAGE ☐ 480/277, 3PH, 4W, WYE
☒ 208/120V, 3PH, 4W, WYE
☐ 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
225 **AMP** ☒ FACTORY MAIN CIRCUIT BREAKER
☐ SHUNT TRIP MAIN CB
☐ MAIN LUGS ONLY
☐ UL LISTED FEED-THRU LUGS
☐ MAIN FUSIBLE SWITCH, FURNISH FUSES
< 600A, CLASS RK5
> 600A, CLASS L

NEUTRAL ☒ 100% ☐ 200%
MOUNTING ☒ SURFACE
☐ FLUSH
ENCLOSURE ☒ NEMA 1 ☐ NEMA 3R
☒ LOCKABLE COVER
FEED ☐ TOP
☐ BOTTOM
BRANCHES ☒ BOLT-ON, PANELBOARD CONSTR.
☐ STAB-IN, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

FURNISH GROUND BAR KIT
☐ ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
☐ SERVICE ENTRANCE LABEL
☒ PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE
FED FROM, MOVYR. INSTALLED, 4 LINES
☒ BLACK FIELD, WHITE LETTERS
☐ RED FIELD, WHITE LETTERS

AIC RATING 10,000
☒ FULLY RATED
☐ SERIES RATED

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	1	20	SPARE					SPD					60	3	2
3	1	20	SPARE					-				-	-	-	4
5	1	20	SPARE					-				-	-	-	6
7	1	20	SPARE					SPARE				SPARE	20	1	8
9	1	20	SPARE					SPARE				SPARE	20	1	10
11	1	20	MECHANICAL ROOM OUTLET			800	M	E			957	MSCU 1-5	20	2	12
13	1	20	SPARE					E	957			-	-	-	14
15	2	20	PASS THRU WARMER		1498		K	K		1498		PASS THRU WARMER	20	2	16
17	-	-	-			1498	K	K			1498	-	-	-	18
19	1	20*	PASS THRU REFRIGERATOR	1332			M	M	1332			PASS THRU REFRIGERATOR	20*	1	20
21	1	20*	MOBILE PROOFER		1920		K	M		1332		REACH IN REFRIGERATOR	20*	1	22
23	1	20*	MOBILE PROOFER			1920	K					SPARE	20	1	24
25	3	70	ELECTRIC COMBI-OVEN/STEAMER	6000			K					SPARE	20	1	26
27	-	-	-		6000		K					SPARE	20	1	28
29	-	-	-			6000	K					SPARE	20	1	30
31	3	70	ELECTRIC COMBI-OVEN/STEAMER	6000			K					SPACE			32
33	-	-	-		6000		K					SPACE			34
35	-	-	-			6000	K					SPACE			36
37	1	20*	ELECTRIC COMBI-OVEN/STEAMER VENT	384			M	M	1380			ICE MAKER	20	1	38
39	1	20	AIR CURTAIN		612		M	R		1260		KITCHEN RECEPTACLES	20	1	40
41	1	20	ELEC & MECH RECEPTACLES			540	R	R			900	LAUNDRY, AND RR RECEP	20	1	42
43	1	20	SPARE					M	3120			STACKED WASHER/DRYER	30	2	44
45	1	20	SPARE					M		3120		-	-	-	46
47	1	20	IDF RACK			1500	M					SPARE	20	1	48
49	1	20	IDF RACK	1500			M					SPARE	20	1	50
51	1	20	SPARE									SPARE	20	1	52
53	1	20	SPARE									SPARE	20	1	54
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	15216	16030	16258	SUBTOTAL EVEN SIDE		6789	7210	3355	LCL = 0	VA x 1.25 =	0	VA
IF FUSIBLE SWITCHES							PHASE LOAD		22005	23240	21613	KITCHEN LOAD	2392.5 VA =	29791	VA *
REMARKS:							TOTAL VA			66858		MISC. LOAD		16412	VA
			* PROVIDE GFI CIRCUIT BREAKER									RECEPTACLE LOAD		2700	VA
												AC= 0 VA= HEAT= 0	VA =	0	VA
												AHU= 0	VA x 1.25	0	VA
			A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN										TOTAL LOAD	51295	VA
			CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.										TOTAL AMPS	142	

PANEL SCHEDULE

PANEL L1B2 (ALTERNATE 1)
LOCATION

VOLTAGE ☐ 480/277, 3PH, 4W, WYE
☒ 208/120V, 3PH, 4W, WYE
☐ 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"
225 **AMP** ☒ FACTORY MAIN CIRCUIT BREAKER
☐ SHUNT TRIP MAIN CB
☐ MAIN LUGS ONLY
☐ UL LISTED FEED-THRU LUGS
☐ MAIN FUSIBLE SWITCH, FURNISH FUSES
< 600A, CLASS RK5
> 600A, CLASS L

NEUTRAL ☒ 100% ☐ 200%
MOUNTING ☒ SURFACE
☐ FLUSH
ENCLOSURE ☒ NEMA 1 ☐ NEMA 3R
☒ LOCKABLE COVER
FEED ☐ TOP
☐ BOTTOM
BRANCHES ☒ BOLT-ON, PANELBOARD CONSTR.
☐ STAB-IN, PANELBOARD CONSTR.
☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5
PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

FURNISH GROUND BAR KIT
☐ ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
☐ SERVICE ENTRANCE LABEL
☒ PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE
FED FROM, MOVYR. INSTALLED, 4 LINES
☒ BLACK FIELD, WHITE LETTERS
☐ RED FIELD, WHITE LETTERS

AIC RATING 10,000
☒ FULLY RATED
☐ SERIES RATED

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE	LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
1	1	20	CAFETERIA RECPTACLES	900			R								
3	1	20	CANOPY RECEPTACLES		540		R					-	-	-	4
5	1	20	CAFETERIA RECPTACLES			1080	R					-	-	-	6
7	1	20	HVLS - 1	1320			F	M	3375			EWH-3	40	2	8
9	1	20	HVLS - 2		1320		F	M		3375		-	-	-	10
11	1	20	HVLS - 3			1320	F	M			3375	EWH-3	40	2	12
13	1	20	SPARE					M	3375			-	-	-	14
15	1	20	ACCESS CONTROLLED DOORS		750		M	M		528		HWRP-1	20	1	16
17	1	20	ACCESS CONTROLLED DOORS			250	M	M			800	FIRE ALARM	20	1	18
19	1	20	SPARE					M	960			SERVING FROST TOP UNIT	20*	1	20
21	1	20	HVAC CONTROL PANEL		600		M	M		960		SERVING FROST TOP UNIT	20*	1	22
23	1	20	HAND DRYER			1000	M	K			1872	SERVING HOT FOOD WELL	30*	2	24
25	1	20*	SERVING FROST TOP UNIT	960			M	K	1872			-	-	-	26
27	1	20*	SERVING FROST TOP UNIT		960		M	K		1464		SERVING HOT TOP UNIT	20*	1	28
29	2	30*	SERVING HOT FOOD WELL			1872	K	K			300	SERVING MOBILE MILK COOLER	20*	1	30
31	-	-	-	1872			K	M	400			MOBILE CASHIER COUNTER	20*	1	32
33	1	20*	SERVING HOT TOP UNIT		1464		K	M		1200		NOVELTY ICE CREAM CABINET	20*	1	34
35	1	20*	SERVING MOBILE MILK COOLER			300	M	K			1560	FOOD CUTTER	20*	1	36
37	1	20*	MOBILE CASHIER COUNTER	400			M	K	7500			UDS	100	3	38
39	1	20*	NOVELTY ICE CREAM CABINET		1200		M	K		7500		-	-	-	40
41	1	20	MECHANICAL RM OUTLET			800	M	K			7500	-	-	-	42
43	1	20	SPARE									SPARE	20	1	44
45	1	20	SPARE									SPARE	20	1	46
47	1	20	SPARE									SPARE	20	1	48
49	1	20	SPARE									SPARE	20	1	50
51	1	20	SPARE									SPARE	20	1	52
53	1	20	SPARE									SPARE	20	1	54
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	5452	6834	6622	SUBTOTAL EVEN SIDE		17482	15027	15407	LCL = 0	VA x 1.25 =	0	VA
IF FUSIBLE SWITCHES							PHASE LOAD		22934	21861	22029	KITCHEN LOAD		22409	VA
REMARKS:							TOTAL VA			66824		MISC. LOAD		25868	VA
			* PROVIDE GFI CIRCUIT BREAKER									RECEPTACLE LOAD		2520	VA
												AC= 0 VA= HEAT= 0	VA =	0	VA
												AHU= 3960	VA x 1.25	4950	VA
			A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN										TOTAL LOAD	55747	VA
			CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.										TOTAL AMPS	155	

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CLASSROOM ADD. & CAFETERIA

19452 LA-22, PONCHATOULA, LA 70454

STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER IN ELECTRICAL ENGINEERING
10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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BID DOCUMENTS

E403

PANEL SCHEDULES

CREATIVE ENGINEERING GROUP
201 HIGHLAND PARK PLAZA
COVINGTON, LA 70433
985.249.5706 WWW.CEG-ITL.COM
PROJECT NO: HS1801-25
ENGINEER: RAYMOND H. NOLAN
LICENSE # 27697

H/S

10/7/2026 4:11:03 PM

Autodesk Docs://PHS 18 Classroom Add & Cafeteria/PHS CLASSROOM ADDITIONS_ELECTRICAL_bryanl@ceg-itl.com.rvt

1" 1/2" 0" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

PANEL SCHEDULE

PANEL L1B2 (BASE BID)
LOCATION

VOLTAGE
- ☐ 480/277, 3PH, 4W, WYE
- ☒ 208/120V, 3PH, 4W, WYE
- ☐ 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"

225 **AMP**
- ☒ FACTORY MAIN CIRCUIT BREAKER
- ☐ SHUNT TRIP MAIN CB
- ☐ MAIN LUGS ONLY
- ☐ UL LISTED FEED-THRU LUGS
- ☐ MAIN FUSIBLE SWITCH, FURNISH FUSES
  - < 600A, CLASS RK5
  - > 600A, CLASS L

NEUTRAL ☒ 100% ☐ 200%
MOUNTING
- ☒ SURFACE
- ☐ FLUSH

ENCLOSURE
- ☒ NEMA 1 ☐ NEMA 3R
- ☒ LOCKABLE COVER

FEED
- ☐ TOP
- ☐ BOTTOM

BRANCHES
- ☒ BOLT-ON, PANELBOARD CONSTR.
- ☐ STAB-IN, PANELBOARD CONSTR.
- ☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5

PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING 10,000
- ☒ FULLY RATED
- ☐ SERIES RATED

FURNISH GROUND BAR KIT
- ☐ ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
- ☐ SERVICE ENTRANCE LABEL
- ☒ PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
  - USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
  - USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE
  - FED FROM, MO/YR. INSTALLED, 4 LINES
- ☒ BLACK FIELD, WHITE LETTERS
- ☐ RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE
1	1	20	CAFETERIA RECPTACLES	900			R
3	1	20	CANOPY RECEPTACLES		360		R
5	1	20	CAFETERIA RECPTACLES			1080	R
7	1	20	SPARE				
9	1	20	SPARE				
11	1	20	SPARE				
13	1	20	SPARE				
15	1	20	ACCESS CONTROLLED DOORS		750		M
17	1	20	ACCESS CONTROLLED DOORS			250	M
19	1	20	SPARE				
21	1	20	HVAC CONTROL PANEL		600		M
23	1	20	HAND DRYER			1000	M
25	1	20*	SERVING FROST TOP UNIT	960			M
27	1	20*	SERVING FROST TOP UNIT		960		M
29	2	30*	SERVING HOT FOOD WELL			1872	K
31	-	-		1872			K
33	1	20*	SERVING HOT TOP UNIT		1464		K
35	1	20*	SERVING MOBILE MILK COOLER			300	M
37	1	20*	MOBILE CASHIER COUNTER	400			M
39	1	20	SPARE				
41	1	20	SPARE				
43	1	20	SPARE				
45	1	20	SPARE				
47	1	20	SPARE				
49	1	20	SPARE				
51	1	20	SPARE				
53	1	20	SPARE				
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	4132	4134	4502	
IF FUSIBLE SWITCHES							
REMARKS:							

LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
				SPD	60	3	2
				-	-	-	4
				-	-	-	6
M	3375			EWH-3	40	2	8
M		3375		-	-	-	10
M			3375	EWH-3	40	2	12
M	3375			-	-	-	14
M		528		HWRP-1	20	1	16
M			800	FIRE ALARM	20	1	18
M	960			SERVING FROST TOP UNIT	20*	1	20
M		960		SERVING FROST TOP UNIT	20*	1	22
K			1872	SERVING HOT FOOD WELL	30*	2	24
K	1872				-	-	26
M		1464		SERVING HOT TOP UNIT	20*	1	28
M			300	SERVING MOBILE MILK COOLER	20*	1	30
M	400			MOBILE CASHIER COUNTER	20*	1	32
K							34
M			384	ELECTRIC COMBI-OVEN/STEAMER VENT.	20*	1	36
K	6000			ELECTRIC COMBI-OVEN/STEAMER	70	3	38
K		6000		-	-	-	40
K			6000		-	-	42
K	6000			ELECTRIC COMBI-OVEN/STEAMER	70	3	44
K		6000		-	-	-	46
K			6000	-	-	-	48
				SPACE			50
				SPACE			52
				SPACE			54
			SUBTOTAL EVEN SIDE	21982	18327	18731	
			PHASE LOAD	26114	22461	23233	
			TOTAL VA		71808		

LCL = 0 VA x 1.25 = 0 VA
KITCHEN LOAD 30170 VA
MISC. LOAD 23052 VA
RECEPTACLE LOAD 2340 VA
AC= 0 VA= /HEAT= 0 VA = 0 VA
AHU= 0 VA x 1.25 0 VA
TOTAL LOAD 55562 VA
TOTAL AMPS 154

* PROVIDE GFI CIRCUIT BREAKER

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

PANEL SCHEDULE

PANEL L2A1
LOCATION

VOLTAGE
- ☐ 480/277, 3Ø, 4W, WYE
- ☒ 208/120V, 3Ø, 4W, WYE
- ☐ 240/120V, 3Ø, 4W, DELTA W/3Ø "STINGER"

225 **AMP**
- ☒ FACTORY MAIN CIRCUIT BREAKER
- ☐ SHUNT TRIP MAIN CB
- ☐ MAIN LUGS ONLY
- ☐ UL LISTED FEED-THRU LUGS
- ☐ MAIN FUSIBLE SWITCH, FURNISH FUSES
  - < 600A, CLASS RK5
  - > 600A, CLASS L

NEUTRAL ☒ 100% ☐ 200%
MOUNTING
- ☒ SURFACE
- ☐ FLUSH

ENCLOSURE
- ☒ NEMA 1 ☐ NEMA 3R
- ☒ LOCKABLE COVER

FEED
- ☐ TOP
- ☐ BOTTOM

BRANCHES
- ☒ BOLT-ON, PANELBOARD CONSTR.
- ☐ STAB-IN, PANELBOARD CONSTR.
- ☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5

PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING 10,000
- ☒ FULLY RATED
- ☐ SERIES RATED

FURNISH GROUND BAR KIT
- ☐ ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
- ☐ SERVICE ENTRANCE LABEL
- ☒ PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
  - USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
  - USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE
  - FED FROM, MO/YR. INSTALLED, 4 LINES
- ☒ BLACK FIELD, WHITE LETTERS
- ☐ RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE
1	1	20	CLASSROOM 218 OUTLETS	900			R
3	1	20	CLASSROOM 218 TEACHER DESK		800		M
5	1	20	CLASSROOM 218 SMARTBOARD			800	M
7	1	20	CLASSROOM 218 LAPTOP CART	800			M
9	1	20	CORRIDOR/ELEC RM OUTLETS		720		R
11	1	20	JANITOR 216 & RESTROOM OUTLETS			900	R
13	1	20	OFFICE 217A OUTLETS	720			R
15	1	20	HVAC CONTROL PANEL		800		M
17	1	20	GIRLS 212 HAND DRYER			1000	M
19	1	20	GIRLS 212 HAND DRYER	1000			M
21	1	20	BOYS 211 HAND DRYER		1000		M
23	1	20	BOYS 211 HAND DRYER			1000	M
25	1	20	MECHANICAL RM OUTLET	400			M
27	1	20*	WATER COOLER		600		M
29	1	20*	WATER COOLER			600	M
31	1	20	ELEVATOR TOP OUTLET	180			M
33	1	20	ELEVATOR MACH SPACE OUTLET		180		M
35	1	20	ELEVATOR CAB POWER			800	M
37	1	20	ELEVATOR HOISTWAY LIGHT	100			L
39	1	20	ELEVATOR MACHINE SPACE LIGHT		100		L
41	1	20	ELEVATOR SHUNT TRIP CKT			250	M
43	1	20	SPARE				
45	1	20	SPARE				
47	1	20	SPARE				
49	1	20	SPARE				
51	1	20	SPARE				
53	1	20	SPARE				
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	4100	4200	5350	
IF FUSIBLE SWITCHES							
REMARKS:							

LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
R	900			CLASSROOM 207 OUTLETS	20	1	2
M		800		CLASSROOM 207 TEACHER DESK	20	1	4
M			800	CLASSROOM 207 SMARTBOARD	20	1	6
M	800			CLASSROOM 207 LAPTOP CART	20	1	8
R		900		CLASSROOM 206 OUTLETS	20	1	10
M			800	CLASSROOM 206 TEACHER DESK	20	1	12
M	800			CLASSROOM 206 SMARTBOARD	20	1	14
M		800		CLASSROOM 206 LAPTOP CART	20	1	16
R			900	CLASSROOM 205 OUTLETS	20	1	18
M	800			CLASSROOM 205 TEACHER DESK	20	1	20
M		800		CLASSROOM 205 SMARTBOARD	20	1	22
M			800	CLASSROOM 205 LAPTOP CART	20	1	24
M	1500			IDF 2 RACK	20	1	26
M		1500		IDF 2 RACK	20	1	28
M			1500	DATA 219 OUTLETS	20	1	30
M	800			FIRE ALARM	20	1	32
M		864		EF-13	20	1	34
				SPARE	20	1	36
				SPARE	20	1	38
				SPARE	20	1	40
				SPARE	20	1	42
M	6900			PANEL L2A2	100	3	44
M		6900		-	-	-	46
M			6900	-	-	-	48
				SPD	60	3	50
				-	-	-	52
				-	-	-	54
			SUBTOTAL EVEN SIDE	12500	12564	11700	
			PHASE LOAD	16600	16764	17050	
			TOTAL VA		50414		

LCL = 200 VA x 1.25 = 250 VA
KITCHEN LOAD 0 VA *
MISC. LOAD 44274 VA
RECEPTACLE LOAD 5940 VA
AC= 0 VA= /HEAT= 0 VA = 0 VA
AHU= 0 VA x 1.25 0 VA
TOTAL LOAD 50464 VA
TOTAL AMPS 140

* PROVIDE GFI CIRCUIT BREAKER

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

PANEL SCHEDULE

PANEL L2A2
LOCATION

VOLTAGE
- ☐ 480/277, 3PH, 4W, WYE
- ☒ 208/120V, 3PH, 4W, WYE
- ☐ 240/120V, 3PH, 4W, DELTA W/3PH "STINGER"

225 **AMP**
- ☐ FACTORY MAIN CIRCUIT BREAKER
- ☐ SHUNT TRIP MAIN CB
- ☒ MAIN LUGS ONLY
- ☐ UL LISTED FEED-THRU LUGS
- ☐ FURNISH WITH INTEGRAL SURGE PROTECTION DEVICE

NEUTRAL ☒ 100% ☐ 200%
MOUNTING
- ☒ SURFACE
- ☐ FLUSH

ENCLOSURE
- ☒ NEMA 1 ☐ NEMA 3R
- ☒ LOCKABLE COVER

FEED
- ☐ TOP
- ☐ BOTTOM

BRANCHES
- ☒ BOLT-ON, PANELBOARD CONSTR.
- ☐ STAB-IN, PANELBOARD CONSTR.
- ☐ FUSIBLE SWITCHES, FURNISH ALL FUSES, RK5

PANEL HAS FRONT ACCESS ONLY
ALL COPPER BUSSING

AIC RATING 10,000
- ☒ FULLY RATED
- ☐ SERIES RATED

FURNISH GROUND BAR KIT
- ☐ ALSO FURNISH ADDITIONAL ISOLATED GROUND BAR KIT
- ☐ SERVICE ENTRANCE LABEL
- ☒ PANEL NAMEPLATE, 2"X4" ENGRAVED LAMINATED PLASTIC
  - USE 1/4" LETTERING FOR PANEL NAME, 1 LINE
  - USE 1/8" LETTERING FOR VOLTS, AMPS, WHERE
  - FED FROM, MO/YR. INSTALLED, 4 LINES
- ☒ BLACK FIELD, WHITE LETTERS
- ☐ RED FIELD, WHITE LETTERS

CKT. NO.	# OF POLES	TRIP AMPS	LOAD DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD CODE
1	1	20	CLASSROOM 203 OUTLETS	900			R
3	1	20	CLASSROOM 203 TEACHER DESK		800		M
5	1	20	CLASSROOM 203 SMARTBOARD			800	M
7	1	20	CLASSROOM 203 LAPTOP CART	800			M
9	1	20	CLASSROOM 202 OUTLETS		900		R
11	1	20	CLASSROOM 202 TEACHER DESK			800	M
13	1	20	CLASSROOM 202 SMARTBOARD	800			M
15	1	20	CLASSROOM 202 LAPTOP CART		800		R
17	1	20	CLASSROOM 201 OUTLETS			900	R
19	1	20	CLASSROOM 201 TEACHER DESK	800			M
21	1	20	CLASSROOM 201 SMARTBOARD		800		M
23	1	20	CLASSROOM 201 LAPTOP CART			800	M
25	1	20	STORAGE 204 & CORRIDOR OUTLETS	900			R
27	1	20	SPARE				
29	1	20	SPARE				
31	1	20	SPARE				
33	1	20	SPARE				
35	1	20	SPARE				
37	1	20	SPARE				
39	1	20	SPARE				
41	1	20	SPARE				
TRIP AMPS = FUSE SIZE			SUBTOTAL ODD SIDE	4200	3300	3300	
IF FUSIBLE SWITCHES							
REMARKS:							

LOAD CODE	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT. NO.
R	900			CLASSROOM 208 OUTLETS	20	1	2
M		800		CLASSROOM 208 TEACHER DESK	20	1	4
M			800	CLASSROOM 208 SMARTBOARD	20	1	6
M	800			CLASSROOM 208 LAPTOP CART	20	1	8
R		900		CLASSROOM 209 OUTLETS	20	1	10
M			800	CLASSROOM 209 TEACHER DESK	20	1	12
M	800			CLASSROOM 209 SMARTBOARD	20	1	14
M		800		CLASSROOM 209 LAPTOP CART	20	1	16
R			900	CLASSROOM 210 OUTLETS	20	1	18
M	800			CLASSROOM 210 TEACHER DESK	20	1	20
M		800		CLASSROOM 210 SMARTBOARD	20	1	22
M			800	CLASSROOM 210 LAPTOP CART	20	1	24
				SPARE	20	1	26
				SPARE	20	1	28
				SPARE	20	1	30
				SPARE	20	1	32
				SPACE			34
				SPACE			36
				SPACE			38
				SPACE			40
				SPACE			42
			SUBTOTAL EVEN SIDE	3300	3300	3300	
			PHASE LOAD	7500	6600	6600	
			TOTAL VA		20700		

LCL = 0 VA x 1.25 = 0 VA
KITCHEN LOAD 0 VA *
MISC. LOAD 13600 VA
RECEPTACLE LOAD 7100 VA
AC= 0 VA= /HEAT= 0 VA = 0 VA
AHU= 0 VA x 1.25 0 VA
TOTAL LOAD 20700 VA
TOTAL AMPS 58

* PROVIDE GFI CIRCUIT BREAKER

A/C @ 125% & HEAT @ 125% LARGEST LOAD OF A/C OR HEAT IS USED IN CALCULATIONS EXCEPT IN THE CASE OF HEAT PUMPS IN WHICH BOTH LOADS ARE USED.

1" ½" 0" ½" 1"
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CEG
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985.249.5706 WWW.CEG-ITL.COM
PROJECT NO: HS1881-25
ENGINEER: RAYMOND H. NOLAN
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PONCHATOULA HIGH SCHOOL 18
CLASSROOM ADD. & CAFETERIA

19452 LA-22, PONCHATOULA, LA 70454

STATE OF LOUISIANA
RAYMOND H. NOLAN II
REG. No. 27697
REGISTERED PROFESSIONAL ENGINEER
IN
ELECTRICAL ENGINEERING
10-1-26

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	Author
QUALITY CONTROL	Checker

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BID DOCUMENTS

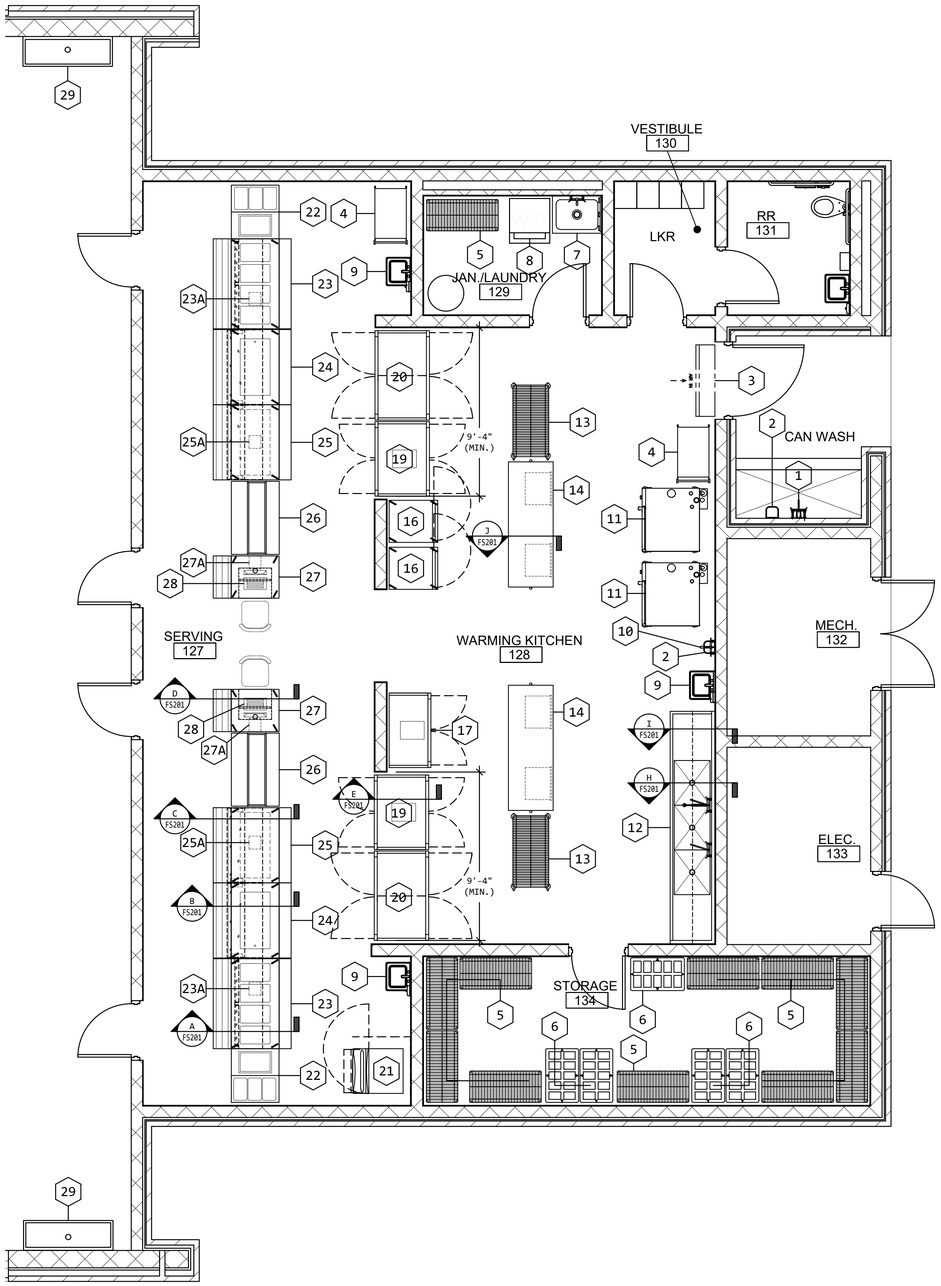
E404

PANEL SCHEDULES

H/S

10/7/2026 4:11:14 PM

Autodesk Docs://PHS 18 Classroom Add & Cafeteria/PHS CLASSROOM ADDITIONS_ELECTRICAL_bryan@ceg-itl.com.rvt



1 (BASE BID) FOOD SERVICE EQUIPMENT FLOOR PLAN
1/4" = 1'-0"

BASE BID EQUIPMENT SCHEDULE			
ITEM NO.	QTY	DESCRIPTION	NOTES
1.	1	EXTERIOR GRADE MIXING FAUCET W/HOSE THREADS (BY PLUMBING)	B
2.	2	HOSE RACKS	A
3.	1	AIR DOOR	A
4.	2	MOBILE UTILITY CARTS	A
5.	11	STORAGE SHELVING UNITS	A
6.	5	DUNNAGE RACKS	A
7.	1	STAINLESS STEEL MOP SINK	A
8.	1	STACKED WASHER/DRYER	A
9.	3	HAND SINKS	A
10.	1	MIXING FAUCET W/HOSE THREADS	A
11.	2	VENTLESS DOUBLE DECK COMBI-OVEN/STEAMERS	A
12.	1	3-COMPARTMENT SINK W/OVERSHELF	A
13.	2	MOBILE UTENSIL SHELVING UNITS	A
14.	2	WORK TABLES	A
15.	--	SPARE NUMBER	--
16.	2	MOBILE PROOFER/HEATED CABINETS	A
17.	1	REACH-IN REFRIGERATOR	A
18.	--	SPARE NUMBER	--
19.	2	PASS-THRU REFRIGERATORS	A
20.	2	PASS-THRU WARMERS	A
21.	1	ICE MACHINE (CUBER) W/STORAGE BIN	A
22.	2	MOBILE TRAY/SILVERWARE COUNTERS	A
23.	2	MOBILE HOT FOOD COUNTERS	A
23A.	2	STAINLESS STEEL FLOOR OUTLET BOXES	A
24.	2	MOBILE 2-TIER COLD SHELF COUNTES	A
25.	2	MOBILE HOT-TOP COUNTERS	A
25A.	2	STAINLESS STEEL FLOOR OUTLET BOXES	A
26.	2	MOBILE MILK COOLERS	A
27.	2	MOBILE CASHIER COUNTERS	A
27A.	2	STAINLESS STEEL FLOOR OUTLET BOXES	A
28.	2	POS UNITS	D
29.	2	STUDENT HAND WASH SINKS (BY PLUMBING)	B

LEGEND:
A. DIVISION 11 (FOOD SERVICE EQUIPMENT)
B. DIVISION 22 (PLUMBING)
C. NOT USED
D. NOT IN CONTRACT

HOLLY & SMITH ARCHITECTS
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PONCHATOULA HIGH SCHOOL 18
CLASSROOM ADD. & CAFETERIA
19452 LA-22, PONCHATOULA, LA 70454

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	
QUALITY CONTROL	

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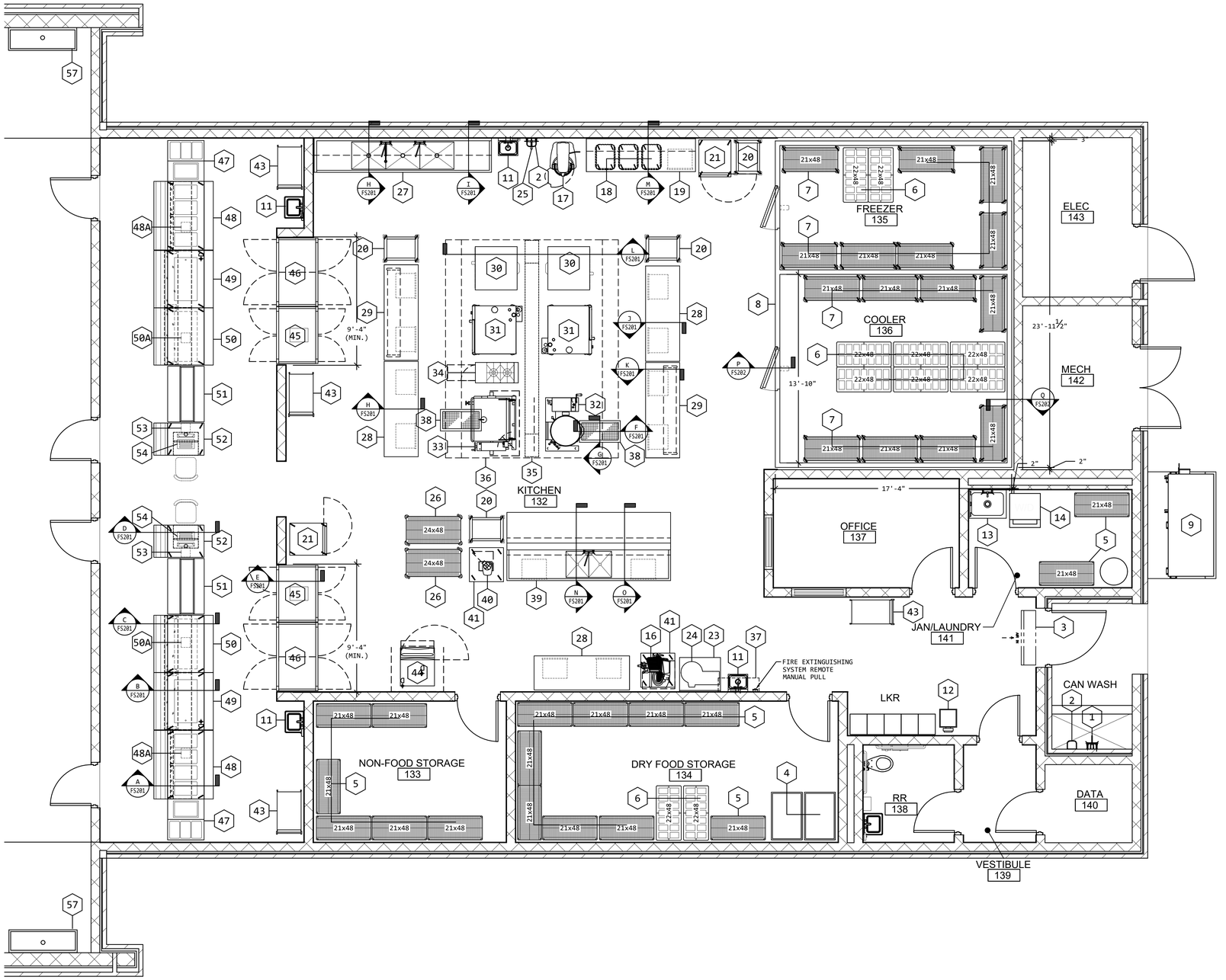
BID DOCUMENTS

FUTCH DESIGN ASSOCIATES, INC. SINCE 1966
FOOD FACILITIES DESIGNERS & CONSULTANTS
7948 GOODWOOD BOULEVARD
BATON ROUGE, LA 70806
PH: 225.923.1289
WEB: WWW.FUTCHDESIGN.COM
1556

FS101
1ST FLOOR PLAN - AREA B
BASE-BID

H/S

1" ½" 0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

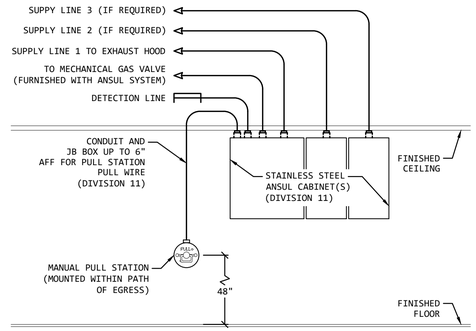


1 (ALT-1) FOOD SERVICE EQUIPMENT FLOOR PLAN

1/4" = 1'-0"

DIAGRAM GENERAL NOTES

1. REFER TO FLOOR PLAN FOR LOCATION OF ANSUL CABINETS AND MANUAL PULL STATION.
2. NUMBER OF ANSUL CABINETS REQUIRED SHALL BE DETERMINED BY SUPPLIER.
3. CONTRACTOR SHALL FURNISH AND INSTALL CLASS K FIRE EXTINGUISHER WITH WALL BRACKET.



D11 EXHAUST HOOD FIRE SUPPRESSION SYSTEM DIAGRAM
REF: FS101a SCALE: NONE

ALT-2 EQUIPMENT SCHEDULE

ITEM NO.	QTY	DESCRIPTION	NOTES
1.	1	EXTERIOR GRADE MIXING FAUCET W/HOSE THREADS (BY PLUMBING)	B
2.	2	HOSE RACKS	A
3.	1	AIR DOOR	A
4.	2	CAN RACKS	A
5.	17	STORAGE SHELVING UNITS	A
6.	8	DUNNAGE RACKS	A
7.	15	MOBILE SHELVING UNITS	A
8.	1	WALK-IN COOLER/FREEZER	A
9.	1	REMOTE REFRIGERATION SYSTEM	A
10.	--	SPARE NUMBER	--
11.	4	HAND SINKS	A
12.	1	SCALE	A
13.	1	STAINLESS STEEL MOP SINK	A
14.	1	STACKED WASHER/DRYER	A
15.	--	SPARE NUMBER	--
16.	1	SLICER	A
17.	1	40-QUART MIXER	A
18.	3	MOBILE INGREDIENT BINS	A
19.	1	BAKERS TABLE W/SPICE SHELF	A
20.	4	MOBILE PAN RACKS	A
21.	2	MOBILE PROOFER/HEATED CABINETS	A
22.	1	SPARE NUMBER	A
23.	1	EQUIPMENT STAND	A
24.	1	FOOD CHOPPER	A
25.	1	MIXING FAUCET W/HOSE THREADS	A
26.	2	MOBILE UTENSIL SHELVING UNITS	A
27.	1	3-COMPARTMENT SINK W/OVERSHELF	A
28.	3	WORK TABLES	A
29.	2	WORK TABLES W/OVERHEAD POT RACK	A
30.	2	DOUBLE DECK GAS CONVECTION OVEN	A
31.	2	DOUBLE DECK COMBI-OVEN/STEAMER	A
32.	1	60-GALLON TILT KETTLE	A
33.	1	40-GALLON TILTING BRAISING PAN	A
34.	1	2-BURNER RANGE	A
35.	1	UTILITY DISTRIBUTION SYSTEM	A
36.	1	EXHAUST HOOD	A
37.	1	FIRE SUPPRESSION SYSTEM	A
38.	2	STAINLESS STEEL FLOOR DRAIN TROUGHS	A
39.	1	PREPARATION COUNTER W/SINKS	A
40.	1	FOOD PROCESSOR	A
41.	2	MOBILE EQUIPMENT STANDS	A
42.	--	SPARE NUMBER	--
43.	4	MOBILE UTILITY CARTS	A
44.	1	ICE MACHINE (CUBER) W/STORAGE BIN	A
45.	2	PASS-THRU REFRIGERATORS	A
46.	2	PASS-THRU WARMERS	A
47.	2	MOBILE TRAY/SILVERWARE COUNTERS	A
48.	2	MOBILE HOT FOOD COUNTERS	A
48A.	2	STAINLESS STEEL FLOOR OUTLET BOXES	A
49.	2	MOBILE 2-TIER COLD SHELF COUNTES	A
50.	2	MOBILE HOT-TOP COUNTERS	A
50A.	2	STAINLESS STEEL FLOOR OUTLET BOXES	A
51.	2	MOBILE MILK COOLERS	A
52.	2	MOBILE CASHIER COUNTERS	A
53.	2	STAINLESS STEEL FLOOR OUTLET BOXES	A
54.	2	POS UNITS	D
55.	2	MOBILE CONDIMENT COUNTERS (NOT SHOWN)	A
56.	2	NOVELTY ICE CREAM CABINETS (NOT SHOWN) (BY VENDOR)	D
57.	2	STUDENT HAND WASH SINKS (BY PLUMBING)	B

LEGEND:
- A. DIVISION 11 (FOOD SERVICE EQUIPMENT)
- B. DIVISION 22 (PLUMBING)
- C. NOT USED
- D. NOT IN CONTRACT

FUTCH DESIGN ASSOCIATES, INC. SINCE 1986
FOOD FACILITIES DESIGNERS & CONSULTANTS
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PONCHATOULA HIGH SCHOOL 18 CLASSROOM ADD. & CAFETERIA

19452 LA-22, PONCHATOULA, LA 70454

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	
QUALITY CONTROL	

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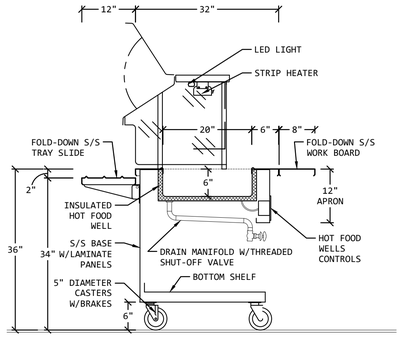
BID DOCUMENTS

FS101a

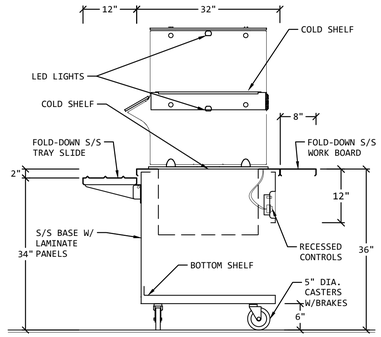
1ST FLOOR PLAN - AREA B ALTERNATES

H/S

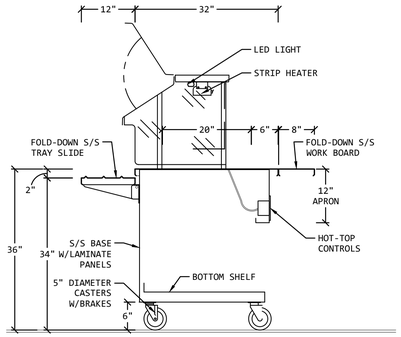
0" ½" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.



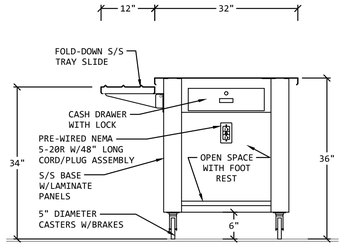
A MOBILE HOT FOOD COUNTER
REF: FS101/FS101a SCALE: 3/4"=1'-0"



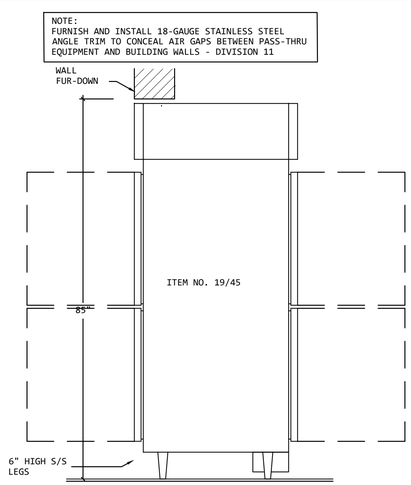
B MOBILE 2-TIER COLD SHELF COUNTER
REF: FS101/FS101a SCALE: 3/4"=1'-0"



C MOBILE HOT-TOP COUNTER
REF: FS101/FS101a SCALE: 3/4"=1'-0"

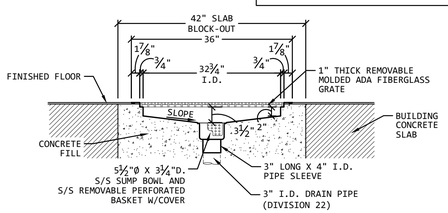


D MOBILE CASHIER COUNTER
REF: FS101/FS101a SCALE: 3/4"=1'-0"

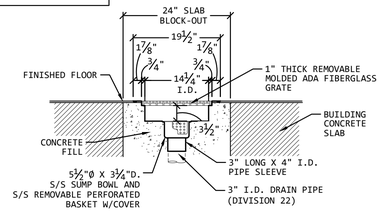


E PASS-THRU REFRIGERATOR
REF: FS101/FS101a SCALE: 3/4"=1'-0"

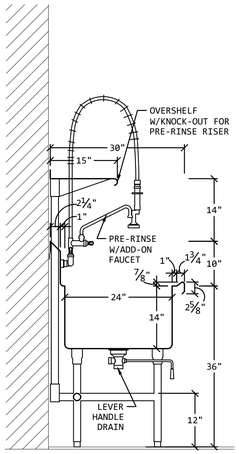
NOTE:
BLOCK-OUT CONCRETE SLAB DURING INITIAL POUR AS INDICATED ON FOOD SERVICE EQUIPMENT SLAB REQUIREMENTS PLAN (FS3.01) FOR PROPER INSTALLATION OF FLOOR TROUGH. TROUGH SHALL BE INSTALLED WITH TOP OF PERIMETER FLANGE FLUSH WITH BUILDING FLOOR.



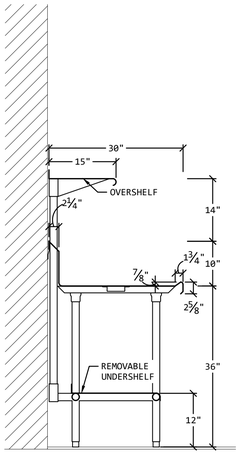
F STAINLESS STEEL FLOOR DRAIN TROUGH
REF: FS101a SCALE: 3/4" = 1'-0"



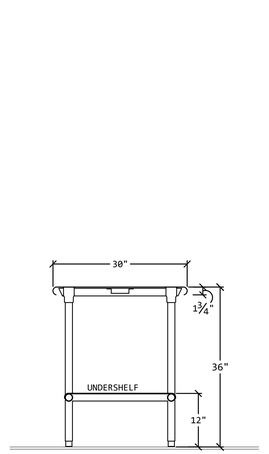
G STAINLESS STEEL FLOOR DRAIN TROUGH
REF: FS101a SCALE: 3/4" = 1'-0"



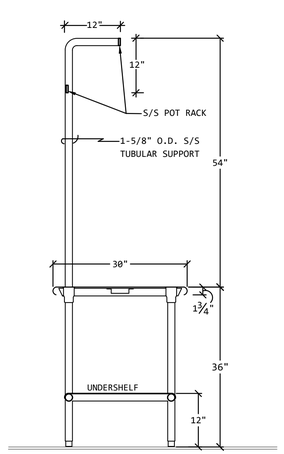
H 3-COMP. SINK W/OVERSHELF
REF: FS-101/FS101a SCALE: 3/4"=1'-0"



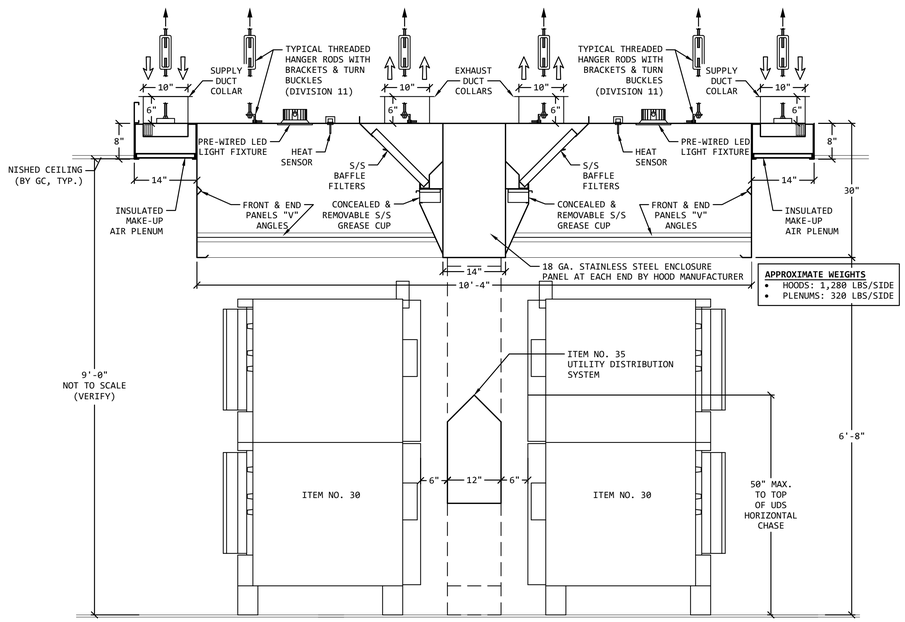
I 3-COMP. SINK W/OVERSHELF
REF: FS-101/FS101a SCALE: 3/4"=1'-0"



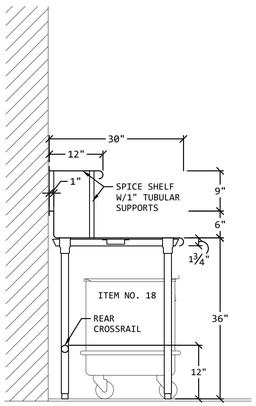
J WORK TABLE
REF: FS-101/FS101a SCALE: 3/4"=1'-0"



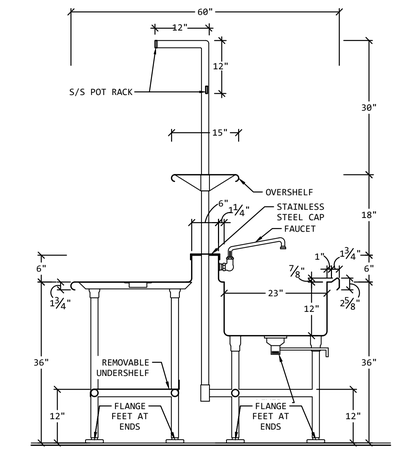
K WORK TABLE W/OVERHEAD POT RACK
REF: FS-101a SCALE: 3/4"=1'-0"



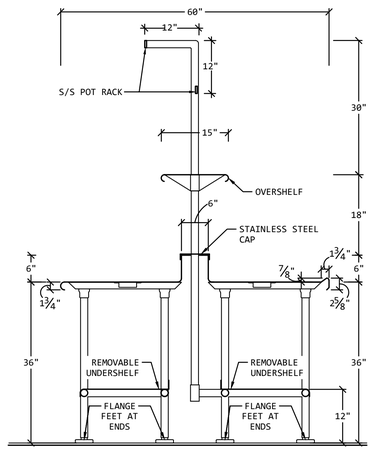
L UTILITY DISTRIBUTION SYSTEM / EXHAUST HOOD
REF: FS101a SCALE: 3/4"=1'-0"



M BAKER'S TABLE W/SPICE SHELF
REF: FS101a SCALE: 3/4"=1'-0"



N PREPARATION COUNTER W/SINKS & OVERSHELF/POT RACK
REF: FS101a SCALE: 3/4"=1'-0"



O PREPARATION COUNTER W/SINKS & OVERSHELF/POT RACK
REF: FS101a SCALE: 3/4"=1'-0"

1" 0" ½" 1"
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19452 LA-22, PONCHATOULA, LA 70454

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	
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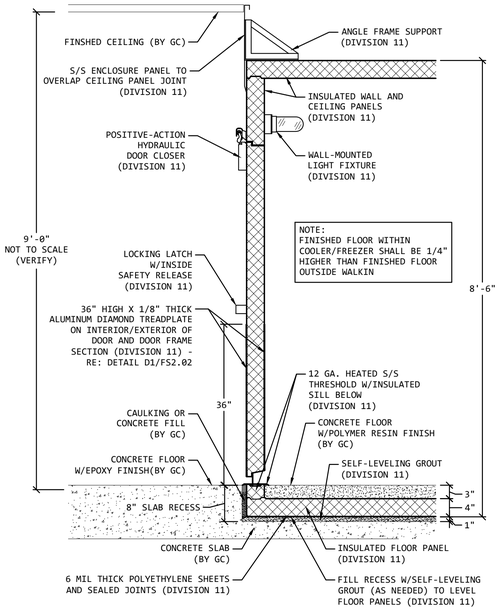
BID DOCUMENTS

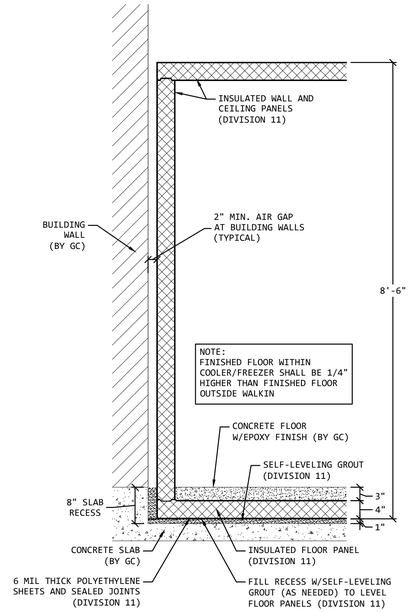
FS201

FOOD SERVICE EQUIPMENT DETAILS

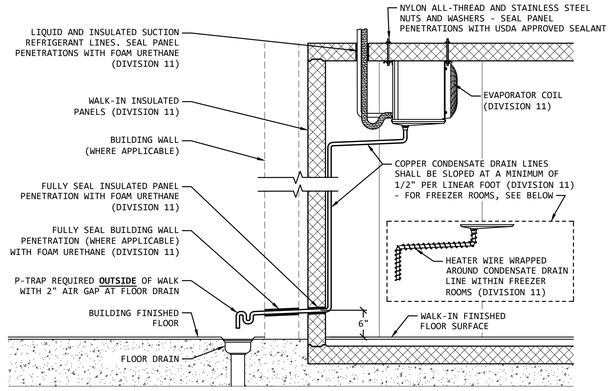
H/S



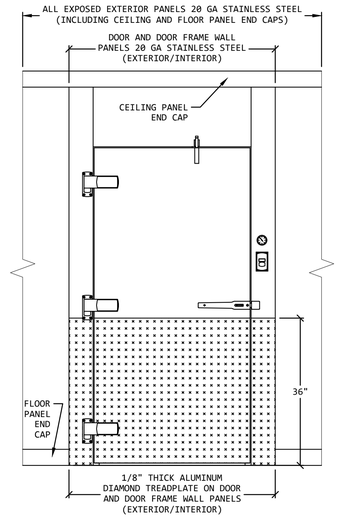
P WALK-IN COOLER/FREEZER AT COOLER ROOM DOOR
REF: FS101a SCALE: 3/4" = 1'-0"



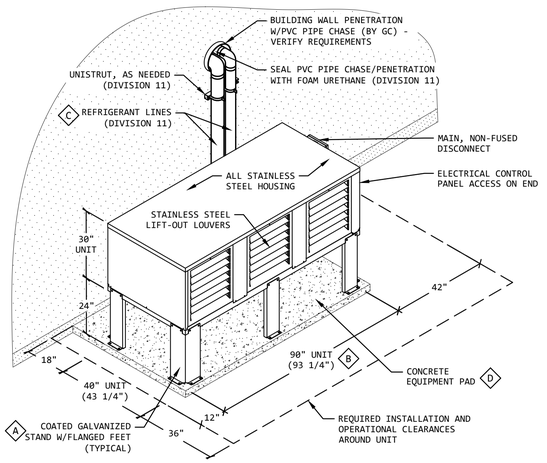
Q WALK-IN COOLER/FREEZER AT BUILDING WALL
REF: FS101a SCALE: 3/4" = 1'-0"



D1 WALK-IN COOLER/FREEZER CONDENSATE DRAIN & COIL INSTALLATION DETAIL
REF: FS401a NOT TO SCALE



D2 COOLER/FREEZER DOOR SECTION FINISHES DETAIL
REF: FS101a SCALE: NONE



D3 REMOTE REFRIGERATION SYSTEM INSTALLATION DETAIL
REF: FS101a SCALE: NONE

◇ DETAIL KEYNOTES

A. FLANGED FEET OF REFRIGERATION RACK STAND SHALL BE ANCHORED TO CONCRETE PAD BY DIVISION 11.

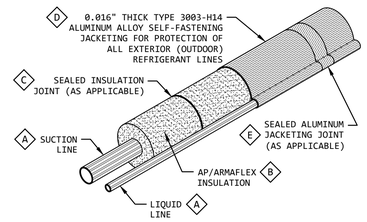
B. DIMENSIONS WITHIN BRACKETS ( ) INDICATES LENGTH OF UNIT + FLANGED FEET.

C. EXACT SIZE, QUANTITY, AND ROUTING OF REFRIGERANT LINES REQUIRED ARE PROJECT SPECIFIC AND SHALL BE FIELD VERIFIED.

RE: DETAILS D4 & D5, THIS SHEET FOR ADDITIONAL REQUIREMENTS.

D. CONCRETE EQUIPMENT PAD (PROVIDED BY GENERAL CONTRACTOR) SHALL ACCOMMODATE REMOTE REFRIGERATION UNIT WEIGHT OF 775 LBS.

RE: FS203 FOR ADDITIONAL REQUIREMENTS.



◇ DETAIL KEYNOTES

A. ALL REFRIGERANT LINES SHALL BE RIGID REFRIGERANT GRADE TYPE "L" COPPER.

B. ALL REFRIGERANT LINES SUBJECT TO SWEATING SHALL BE FULLY INSULATED WITH AP/ARMAFLEX AS FOLLOWS:

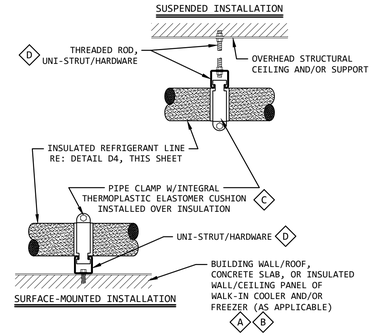
- 3/4" (MINIMUM) FOR COOLER LINES; 1-1/2" FOR POORLY VENTILATED AREAS.
- 1" (MINIMUM) FOR FREEZER LINES; 2" FOR POORLY VENTILATED AREAS.

C. ALL JOINTS SHALL BE SEALED WITH GLUE IN ACCORDANCE WITH INSULATION MANUFACTURER'S RECOMMENDATIONS. DUCT TAPE AT JOINTS IS NOT ACCEPTABLE.

D. FURNISH AND INSTALL MATCHING ALUMINUM JACKETING ELBOW COVERS AT ALL EXTERIOR (OUTDOOR) REFRIGERANT PIPING ANGLES AND BENDS.

E. FURNISH AND INSTALL MATCHING ALUMINUM JACKETING STRAPPING AND SEALS AT ALL JOINTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

D4 REFRIGERANT LINE INSULATION & JACKETING DETAIL
REF: FS202 SCALE: NONE



◇ DETAIL KEYNOTES

A. MOUNTING TO INSULATED CEILING PANELS NOT ALLOWED FOR OUTDOOR COOLER/FREEZER INSTALLATIONS AND SHALL BE AVOIDED WHENEVER POSSIBLE FOR INDOOR INSTALLATIONS. WHEN MOUNTING TO INSULATED WALL OR CEILING PANELS, HARDWARE SHALL NOT PENETRATE MORE THAN HALFWAY THROUGH PANEL DEPTH -- PENETRATIONS SHALL BE FILLED AND SEALED WITH USDA GRADE SILICONE TO PREVENT MOISTURE INTRUSION.

B. BUILDING ROOF PENETRATIONS (IF APPLICABLE) SHALL BE FILLED AND SEALED UTILIZING BEST INDUSTRY PRACTICES AND IN ACCORDANCE WITH LOCAL BUILDING CODES.

C. STANDARD PIPE CLAMPS MAY BE UTILIZED ON OUTDOOR ALUMINUM-JACKETED AND INSULATED REFRIGERANT LINES.

D. HARDWARE (NUTS, BOLTS) SHOWN FOR REFERENCE ONLY. FURNISH AND INSTALL NECESSARY STAINLESS STEEL HARDWARE IN A WORKMANLIKE MANNER AND IN COMPLIANCE WITH LOCAL BUILDING CODES TO MEET PROJECT REQUIREMENTS.

D5 REFRIGERANT LINE SUPPORT DETAIL
REF: FS202 SCALE: NONE

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19452 LA-22, PONCHATOULA, LA 70454

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	
QUALITY CONTROL	

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BID DOCUMENTS

FS202

FOOD SERVICE EQUIPMENT DETAILS

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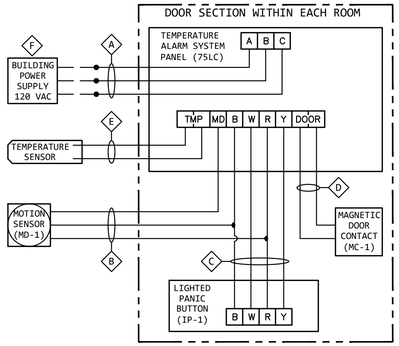
WEB: WWW.FUTCHDESIGN.COM
1556

H/S

1" 1/2" 0" 1/2" 1" The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.



WIRING DIAGRAM KEYNOTES

A. 120-VOLT CONTROL WIRING FOR TEMPERATURE ALARM SYSTEM PANEL (75LC). LIGHTING RELAY RATED FOR 8.3A @120V.

B. 22 AWG LOW VOLTAGE CONTROL WIRING FOR MOTION SENSOR(S) (MD-1).

C. 22 AWG LOW VOLTAGE CONTROL WIRING FOR LIGHTED PANIC BUTTON(S) (IP-1).

D. 22 AWG LOW VOLTAGE CONTROL WIRING FOR MAGNETIC DOOR CONTACT(S) (MC-1).

E. 25' LONG MANUFACTURER FURNISHED TEMPERATURE PROBE/WIRE ASSEMBLY.

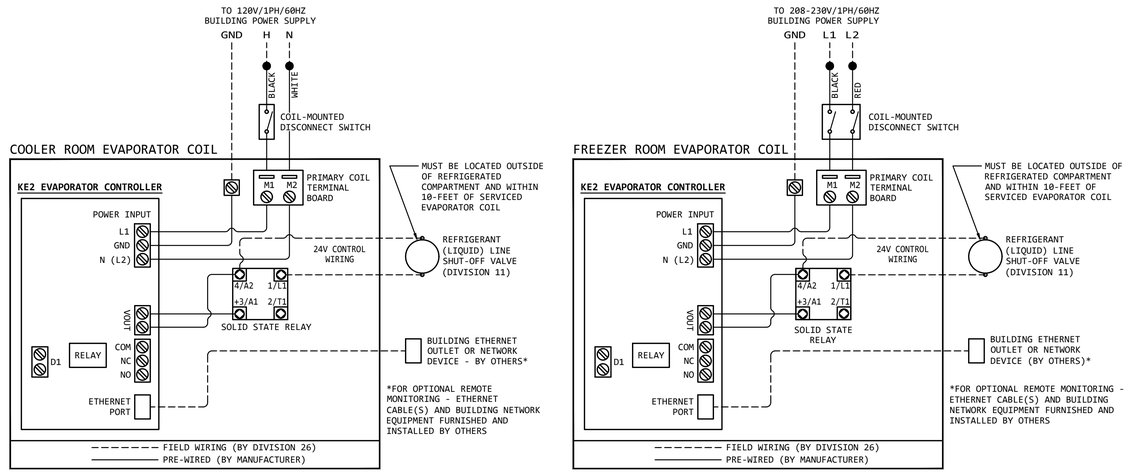
F. LOCATED ABOVE CEILING PANEL (FOR INDOOR INSTALLATIONS) OR BELOW CEILING PANEL (FOR OUTDOOR INSTALLATIONS).

LEGEND

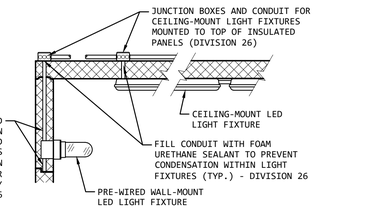
— — — FIELD WIRING (BY CONTRACTOR)
——— PRE-WIRED (BY MANUFACTURER)

NOTE:
WIRING DIAGRAM IS BASED ON SPECIFIED BASIS OF DESIGN EQUIPMENT - VERIFY REQUIREMENTS WITH MANUFACTURER SHOP DRAWINGS AND/OR AS-BUILT WIRING DIAGRAMS OF FURNISHED EQUIPMENT

D6 WALK-IN COOLER/FREEZER TEMPERATURE ALARM & LIGHT CONTROLS WIRING DIAGRAM
REF: FS401a SCALE: NONE

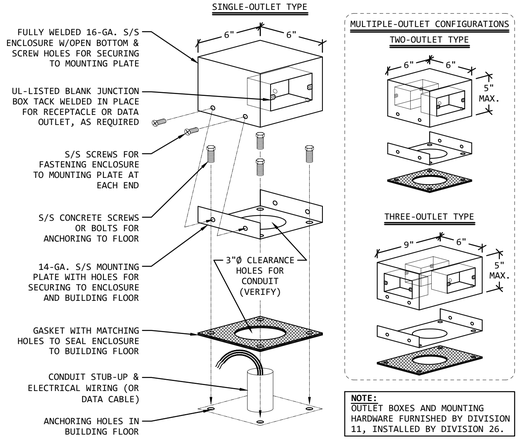


D7 WALK-IN COOLER AND FREEZER EVAPORATOR COIL ON-DEMAND CONTROLLER WIRING DIAGRAM
REF: FS401a SCALE: NONE



FOR INDOOR COOLER/FREEZER INSTALLATIONS

D8 WALK-IN COOLER/FREEZER LIGHT FIXTURES INSTALLATION
REF: FS401a SCALE: NONE



NOTE:
OUTLET BOXES AND MOUNTING HARDWARE FURNISHED BY DIVISION 11, INSTALLED BY DIVISION 26.

D9 S/S FLOOR MOUNTED OUTLET BOX DETAIL
REF: FS101, FS101a, FS401a SCALE: NONE

WIRING DIAGRAM KEYNOTES

A. 20A 120V 3-WIRE POWER INPUT (DEDICATED) TO EXHAUST/SUPPLY FAN CONTROL PANEL.

B. FURNISH/INSTALL (4) 120-VOLT CONTROL WIRES FOR MAGNETIC STARTERS OF EXHAUST/SUPPLY FANS - DIVISION 26.

C. EXHAUST/SUPPLY FANS AND MAGNETIC STARTERS FURNISHED BY DIVISION 23.

D. FURNISH/INSTALL (2) CONTROL WIRES FOR HOOD-MOUNTED HEAT SENSORS - DIVISION 26. VERIFY QUANTITY OF HEAT SENSORS.

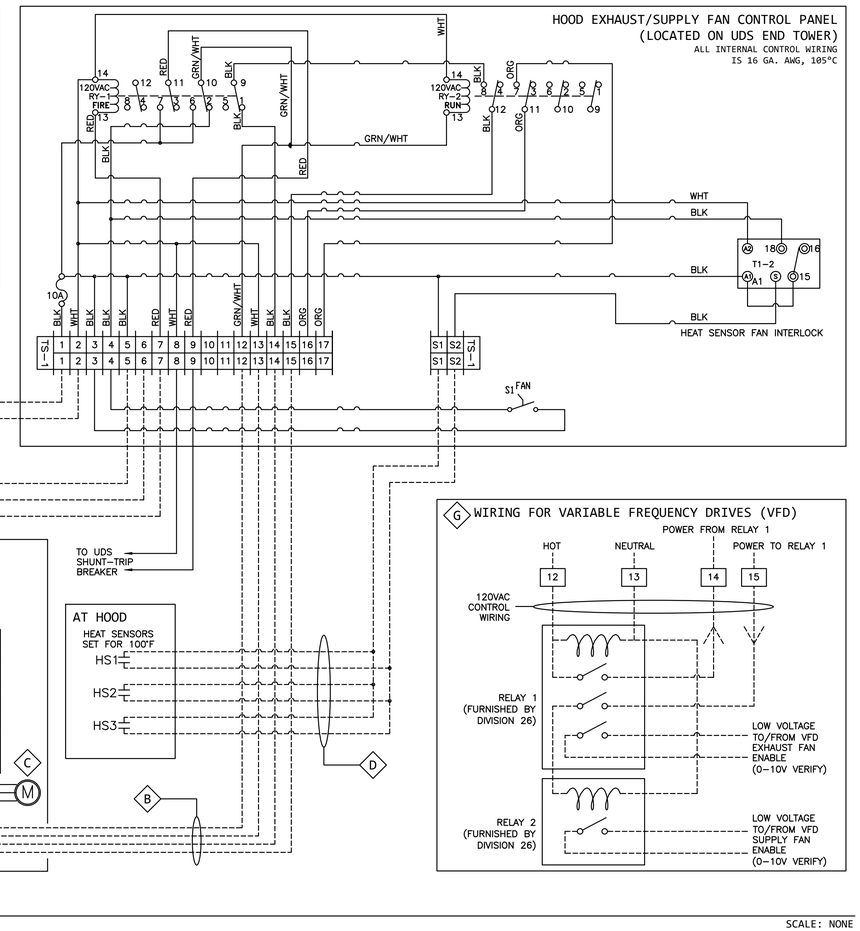
E. 3-PHASE POWER THRU STARTERS TO EXHAUST/SUPPLY FANS - DIVISION 26.

F. FURNISH/INSTALL (3)-WIRE CIRCUIT FROM ALARM ACTIVATED, C-FORM, DRY CONTACTS (LOCATED IN FIRE SUPPRESSION SYSTEM CABINET) TO FIRE SYSTEM INTERFACE OF EXHAUST/SUPPLY FAN CONTROL PANEL - DIVISION 26.

G. REFER TO VFD WIRING INSERT AT LOWER RIGHT OF DIAGRAM WHEN FAN PACKAGE IS FURNISHED WITH VARIABLE FREQUENCY DRIVES - DIVISION 26.

LEGEND

— — — FIELD WIRING (BY DIVISION 26)
——— PRE-WIRED (BY MANUFACTURER)



D10 EXHAUST HOOD CONTROL PANEL WIRING DIAGRAM
REF: FS401a SCALE: NONE

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NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
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FS203
FOOD SERVICE EQUIPMENT WIRING DIAGRAMS & DETAILS

H/S

1" 3/4" 1/2" 0"
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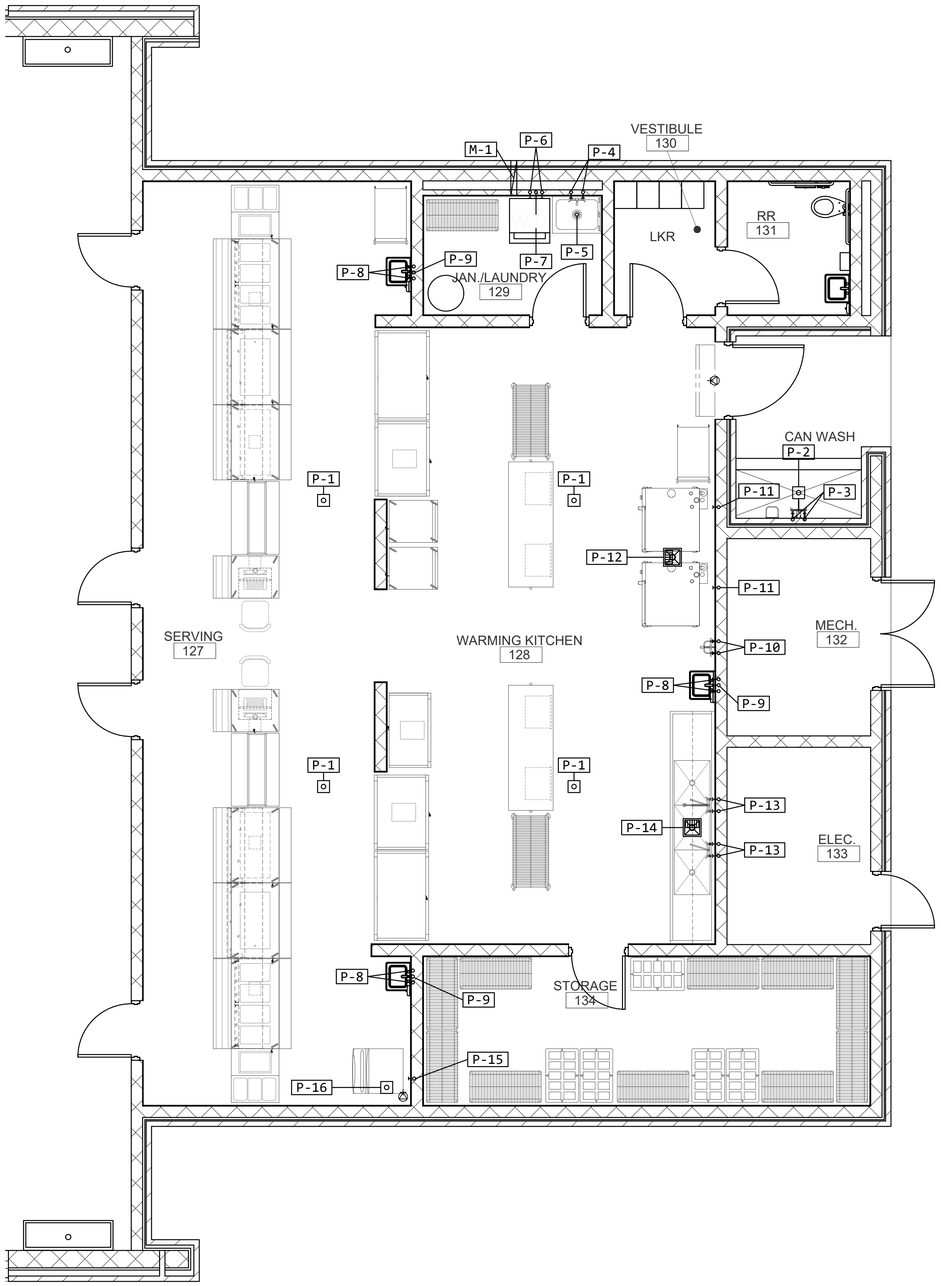

PLUMBING/MECHANICAL ROUGH-IN DATA SCHEDULE			
CONN. NO.	ITEM NO.	DESCRIPTION OF UTILITY REQUIREMENTS	NOTES
P-1		FD-A (AREA CLEAN-UP)	
P-2		FD-A (WITHIN RECESS) FOR CAN WASH AREA	
P-3	1	1/2" H & CW 36" AFF FOR EXTERIOR GRADE MIXING FAUCET (BY PLUMBING)	20A
P-4	7	1/2" HW & CW 36" AFF FOR WALL-MOUNTED FAUCET OF STAINLESS STEEL FLOOR MOP SINK	7
P-5	7	2" IPS DRAIN 2-3/4" AFF FOR DRAIN ASSEMBLY OF STAINLESS STEEL FLOOR MOP SINK	
P-6	8	1/2" HW & CW 36" AFF FOR CLOTHES WASHER	
P-7	8	2" STAND PIPE DRAIN 36" AFF FOR CLOTHES WASHER	
P-8	9	1/2" HW & CW 18" AFF FOR FAUCET OF EACH STAINLESS STEEL HAND SINK	7
P-9	9	1-1/2" DR 24-1/2" AFF FOR EACH STAINLESS STEEL HAND SINK	7
P-10	10	1/2" HW & CW 36" AFF FOR MIXING FAUCET W/HOSE THREADS	20
P-11	11	1/2" CW 36" AFF FOR COMBI-OVEN/STEAMER	11
P-12	11	FS (2-CONNECTION) FOR DRAIN LINES OF COMBI-OVEN/STEAMER	14
P-13	12	1/2" HW & CW 18" AFF FOR EACH FAUCET OF 3-COMPARTMENT SINK	7
P-14	12	FS (3-CONNECTIONS) FOR DRAIN LINES OF 3-COMPARTMENT SINK	7,8
P-15	21	3/8" CW 60" AFF FOR ICE MACHINE	11
P-16	21	FD-B FOR DRAIN LINES OF ICE MACHINE AND STORAGE BIN	12
M-1	14	4" DIA. GRAVITY VENT 12" AFF FOR CLOTHES DRYER	

REFER TO SHEET FS301a FOR PLUMBING ROUGH-IN NOTES

1 (BASE BID) FOOD SERVICE EQUIPMENT PLUMBING ROUGH-IN PLAN

1/4" = 1'-0"

1" ½" 0" ½" 1"

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NO.	DESCRIPTION	DATE

PROJECT NO.	25005
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BID DOCUMENTS

FS301

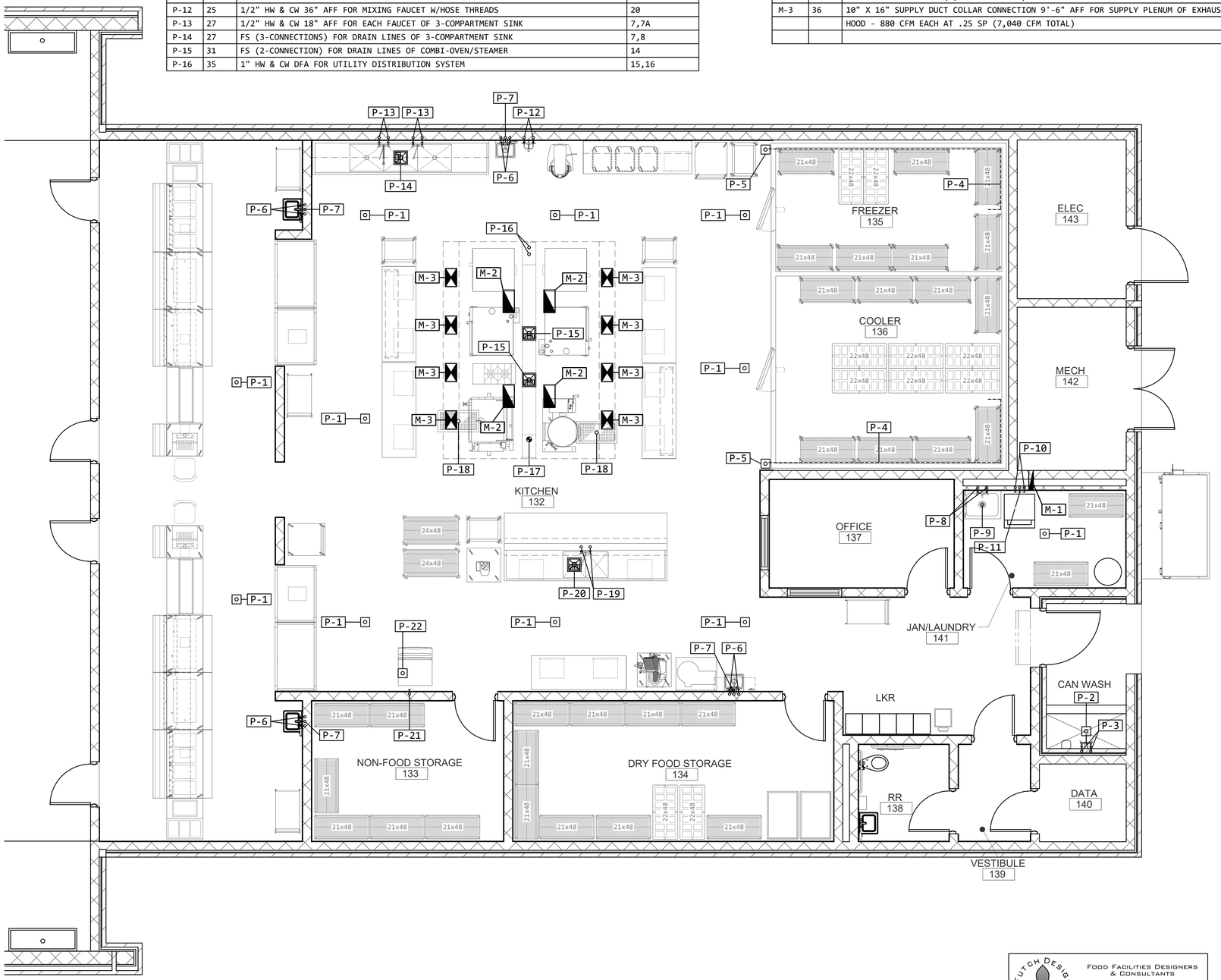
FOOD SERVICE EQUIPMENT PLUMBING ROUGH-IN PLAN

H/S

PLUMBING/MECHANICAL ROUGH-IN DATA SCHEDULE			
CONN. NO.	ITEM NO.	DESCRIPTION OF UTILITY REQUIREMENTS	NOTES
P-1		FD-A (AREA CLEAN-UP)	
P-2		FD-A (WITHIN RECESS) FOR CAN WASH AREA	
P-3	1	1/2" H & CW 36" AFF FOR EXTERIOR GRADE MIXING FAUCET (BY PLUMBING)	20A
P-4	8	3/4" TYPE "L" COPPER CONDENSATE DRAIN LINE FROM WALK-IN COOLER/FREEZER	
		EVAPORATOR COILS TO FLOOR DRAIN	9,10
P-5	8	FD-B FOR CONDENSATE DRAIN LINE OF WALK-IN COOLER/FREEZER	9,10
P-6	11	1/2" HW & CW 18" AFF FOR FAUCET OF EACH STAINLESS STEEL HAND SINK	7
P-7	11	1-1/2" DR 24-1/2" AFF FOR EACH STAINLESS STEEL HAND SINK	7
P-8	13	1/2" HW & CW 36" AFF FOR WALL-MOUNTED FAUCET OF STAINLESS STEEL FLOOR MOP SINK	7
P-9	13	2" IPS DRAIN 2-3/4" AFF FOR DRAIN ASSEMBLY OF STAINLESS STEEL FLOOR MOP SINK	
P-10	14	1/2" HW & CW 36" AFF FOR CLOTHES WASHER	
P-11	14	2" STAND PIPE DRAIN 36" AFF FOR CLOTHES WASHER	
P-12	25	1/2" HW & CW 36" AFF FOR MIXING FAUCET W/HOSE THREADS	20
P-13	27	1/2" HW & CW 18" AFF FOR EACH FAUCET OF 3-COMPARTMENT SINK	7,7A
P-14	27	FS (3-CONNECTIONS) FOR DRAIN LINES OF 3-COMPARTMENT SINK	7,8
P-15	31	FS (2-CONNECTION) FOR DRAIN LINES OF COMBI-OVEN/STEAMER	14
P-16	35	1" HW & CW DFA FOR UTILITY DISTRIBUTION SYSTEM	15,16

PLUMBING/MECHANICAL ROUGH-IN DATA SCHEDULE			
CONN. NO.	ITEM NO.	DESCRIPTION OF UTILITY REQUIREMENTS	NOTES
P-17	35	2" NATURAL GAS DFA FOR UTILITY DISTRIBUTION SYSTEM - 1,030,000 BTU/HR AT 7" WC	
		PRESSURE	17,17A,18
P-18	38	3" PIPE DRAIN (WITHIN SLAB BLOCK-OUT) FOR EACH STAINLESS STEEL FLOOR DRAIN	
		TROUGH - REFER TO DETAILS F & G, FS201	19
P-19	39	1/2" HW & CW 6" AFF FOR FAUCET OF PREPARATION COUNTER SINKS	7
P-20	39	FS (2-CONNECTIONS) FOR DRAIN LINE OF PREPARATION COUNTER SINKS	7,8
P-21	44	3/8" CW 60" AFF FOR ICE MACHINE	11
P-22	44	FD-B FOR DRAIN LINES OF ICE MACHINE AND STORAGE BIN	12
M-1	14	4" DIA. GRAVITY VENT 12" AFF FOR CLOTHES DRYER	
M-2	36	10" X 20" EXHAUST DUCT COLLAR CONNECTION 9'-6" AFF FOR EXHAUST HOOD - 2,200	
		CFM EACH AT .75" SP (8,800 CFM TOTAL)	22-25
M-3	36	10" X 16" SUPPLY DUCT COLLAR CONNECTION 9'-6" AFF FOR SUPPLY PLENUM OF EXHAUST	
		HOOD - 880 CFM EACH AT .25 SP (7,040 CFM TOTAL)	22,23,26,27

PLUMBING/MECHANICAL ROUGH-IN SYMBOLS & ABBREVIATIONS	
CW	COLD WATER
HW	HOT WATER
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
PSI	POUNDS PER SQUARE INCH
DR	DIRECT CONNECTED DRAIN
FD-A	FLOOR DRAIN W/FLUSH MOUNTED GRATE
FD-B	FLOOR DRAIN W/RECESSED GRATE
FS	FLOOR SINK W/DOME STRAINER
BTU/HR	BRITISH THERMAL UNIT PER HOUR
WC	WATER COLUMN GAS PRESSURE
	EXHAUST DUCT OPENING
	SUPPLY DUCT OPENING
CFM	CUBIC FEET PER MINUTE
SP	STATIC PRESSURE
AFF	ABOVE FINISHED FLOOR
DFA	DOWN FROM ABOVE
UDS	UTILITY DISTRIBUTION SYSTEM



1 (ALT-1) FOOD SERVICE EQUIPMENT PLUMBING/MECHANICAL ROUGH-IN PLAN
1/4" = 1'-0"

The graphic scale at the bottom left corner of this drawing must measure 1"x1" otherwise all listed scales are null and void.

PLUMBING/MECHANICAL ROUGH-IN NOTES

1. ROUGH-IN PLAN SHOWS APPROXIMATE LOCATIONS FOR UTILITY REQUIREMENTS OF FOOD SERVICE EQUIPMENT SPECIFIED (INCLUDING EXISTING AND FUTURE EQUIPMENT) PLUS AREA CLEAN-UP FLOOR DRAINS. CONTRACTOR SHALL FURNISH DIMENSIONED LOCATIONS FROM FINISHED WALLS AND/OR CENTER-LINE OF COLUMNS FOR ALL UTILITIES SHOWN ON CONTRACT DOCUMENT ROUGH-IN DRAWINGS.
2. WHERE POSSIBLE, ALL PLUMBING LINES SHALL EXTEND UP THROUGH AND OUT OF BUILDING WALLS.
3. EXTEND AND CONNECT ALL PLUMBING LINES TO CONNECTION POINTS OF FOOD SERVICE EQUIPMENT - DIVISION 22.
4. FURNISH AND INSTALL LINE SHUT-OFF VALVES ON ALL PLUMBING LINES AT EACH FIXTURE - DIVISION 22.
5. EXTEND WATER LINES THROUGH VACUUM BREAKERS (FURNISHED BY DIVISION 11) WHERE INLETS ARE SUBJECT TO SUBMERSION - DIVISION 22.
6. FURNISH WATER INLET VALVES, TEMPERATURE GAUGES, PRESSURE REDUCING VALVES (FOR LOWER PRESSURES THAN INDICATED ON DRAWINGS), MIXING VALVES, AND ACCESSORIES REQUIRED FOR OPERATION OF EQUIPMENT - DIVISION 11.
7. FURNISH SINK FAUCETS, TAIL PIECES, LEVER HANDLE DRAINS AND VACUUM BREAKERS - DIVISION 11.
8. FURNISH AND INSTALL 2" DRAIN LINE EXTENSIONS FROM SINK REQUIRING OPEN SITE DRAINS TO BUILDING FLOOR SINK - DIVISION 22. 2" AIR-GAP REQUIRED.
9. SLOPE CONDENSATE DRAIN LINES GENEROUSLY (1/2" PER LINEAL FOOT MINIMUM) FROM WALK-IN COOLER AND FREEZER COILS TO 6" ABOVE WALK-IN FLOOR AND EXTEND THROUGH WALK-IN PANELS AND BUILDING WALLS (WHERE APPLICABLE) TO FLOOR DRAIN - DIVISION 11. DRAIN LINE TRAP AND 2" AIR-GAP REQUIRED. RE: DETAIL D7, THIS SHEET.
10. WALK-IN PANEL PENETRATIONS FOR REFRIGERANT PIPING AND DRAIN LINES SHALL BE SEALED WITH FOAM URETHANE
11. WATER LINE SHALL BE PIPED THROUGH WATER FILTER (FURNISHED BY DIVISION 11) TO EQUIPMENT - DIVISION 22
12. FURNISH AND INSTALL 1/2" AND 3/4" DRAIN LINES FROM ICE MACHINE AND STORAGE BIN TO FLOOR DRAIN - DIVISION 22. 2" AIR-GAP REQUIRED.
13. SPARE NUMBER
14. FURNISH AND INSTALL 2" DRAIN LINES FROM EACH OF TWO (2) COMBI-OVEN/STEAMER TO FLOOR SINK - DIVISION 22. 2" AIR-GAP REQUIRED.
15. TEST INTERNAL WATER PIPING OF UDS (FURNISHED BY DIVISION 11) FOR LEAKS CAUSED BY SHIPPING AND TIGHTEN AS REQUIRED - DIVISION 22.
16. CONNECT WATER QUICK-DISCONNECT HOSE ASSEMBLIES (FURNISHED BY DIVISION 11) TO COOKING EQUIPMENT - DIVISION 22.
17. INSTALL MECHANICAL GAS SHUT-OFF VALVE (FURNISHED BY DIVISION 11) OF FIRE EXTINGUISHING SYSTEM ON INCOMING GAS LINE TO UDS - DIVISION 22.
17A. FURNISH AND INSTALL PRESSURE REGULATOR ON INCOMING GAS LINE TO UDS FOR PRESSURE EXCEEDING THE REQUIREMENTS INDICATED (7" WC) - DIVISION 22.
18. CONNECT GAS QUICK-DISCONNECT HOSE ASSEMBLIES (FURNISHED BY DIVISION 11) TO COOKING EQUIPMENT - DIVISION 22.
19. INSTALL STAINLESS STEEL FLOOR DRAIN TROUGH (FURNISHED BY DIVISION 11) WITH TOP OF PERIMETER FLANGE FLUSH WITH ADJACENT FINISHED FLOOR - DIVISION 22.
20. INSTALL WALL-MOUNTED MIXING FAUCET WITH VACUUM BREAKER AND HOSE THREADS (FURNISHED BY DIVISION 11) - DIVISION 22.
20A. FURNISH AND INSTALL WALL-MOUNTED MIXING FAUCET WITH VACUUM BREAKER AND HOSE THREADS - DIVISION 22.
21. FURNISH AND INSTALL WATER TEMPERING VALVES ON INCOMING WATER LINES TO STUDENT HAND WASH SINKS - DIVISION 22.
22. FURNISH AND INSTALL EXHAUST/SUPPLY FANS AND DUCTWORK (INDEPENDENT OF BUILDING HVAC SYSTEM) TO MEET REQUIREMENTS INDICATED - DIVISION 23.
23. EXHAUST/SUPPLY FAN CONTROL PANELS AND SWITCHES FOR EXHAUST HOODS SHALL BE FURNISHED BY DIVISION 11, THEREFORE NOT REQUIRED BY MANUFACTURER OF EXHAUST/SUPPLY FAN PACKAGE.
24. EXHAUST DUCTS SHALL BE WELDED TO DUCT COLLARS OF EXHAUST HOODS ABOVE COOKING EQUIPMENT IN ACCORDANCE WITH LATEST EDITIONS OF NFPA 96 - DIVISION 23.
25. FURNISH AND INSTALL AUTOMATIC WET CHEMICAL FIRE EXTINGUISHING SYSTEM FOR EXHAUST HOOD OVER COOKING EQUIPMENT TO MEET UL STANDARD 300, LATEST EDITIONS OF NFPA PAMPHLET NOS. 96 AND 17A, AND ALL OTHER APPLICABLE FIRE CODES - DIVISION 11.
26. TEMPERING OF SUPPLY AIR SHALL BE IN ACCORDANCE WITH HVAC DESIGN REQUIREMENTS - DIVISION 23.
27. ALL HVAC CEILING REGISTERS ARE TO BE DIRECTED AWAY FROM EXHAUST HOOD IN ACCORDANCE WITH CHAPTER 31 KITCHEN VENTILATION OF ASHRAE APPLICATIONS HANDBOOK, DATED 2007 - DIVISION 23.

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CLASSROOM ADD. & CAFETERIA
19452 LA-22, PONCHATOULA, LA 70454

NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	
QUALITY CONTROL	

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BID DOCUMENTS

FS301a
FOOD SERVICE EQUIP. MECH. ROUGH-IN PLAN - AREA B ALTERNATES

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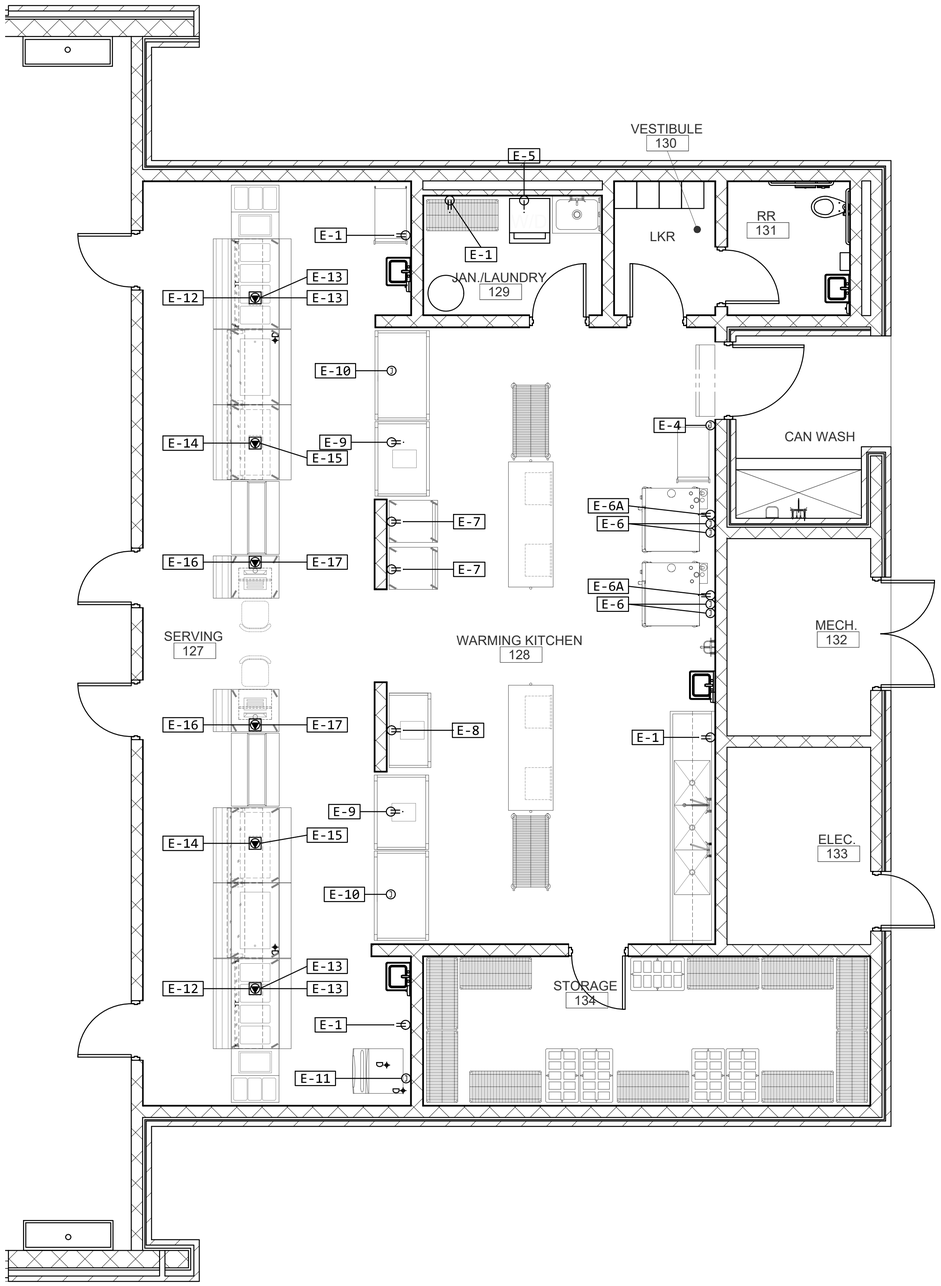

ELECTRICAL ROUGH-IN DATA SCHEDULE			
CONN. NO.	ITEM NO.	DESCRIPTION OF UTILITY REQUIREMENTS	NOTES
E-1	--	20A 120V CO 24" AFF	
E-2	--	20A 120V CO 46" AFF	
E-3	--	20A 120V CO 50" AFF	
E-4	3	5.1A 120V 90" AFF FOR AIR DOOR	7
E-5	8	30A 120/208V 36" AFF FOR STACKED WASHER/DRYER - NEMA L14-30R RECEPTACLE REQUIRED	
E-6	11	70A 208V 3-PH (CIRCUIT) 36" AFF FOR EACH ELECTRIC COMBI-OVEN/STEAMER SECTION	
E-6A	11	1.6A 120V 50" AFF FOR EACH VENT OF COMBI-OVEN/STEAMER - NEMA 5-20R REQUIRED	
E-7	16	16A 120V 50" AFF FOR MOBILE PROOFER HEATED CABINET - NEMA 5-20R REQUIRED	
E-8	17	11.1A 120V 90" AFF FOR REACH-IN REFRIGERATOR - NEMA 5-20R RECEPTACLE REQUIRED	
E-9	19	11.1A 120V 90" AFF FOR EACH PASS-THRU REFRIGERATOR - NEMA 5-20R REQUIRED	
E-10	20	14.4A 208V 1-PH (3-WIRES+GROUND) 90" AFF FOR EACH PASS-THRU WARMER	
E-11	21	11.5A 120V 72" AFF FOR ICE MACHINE	
E-12	23/23A	18A 208V 1-PH 4" AFF FOR BUILT-IN NEMA 15-30 RECEPTACLE OF STAINLESS STEEL	
		FLOOR OUTLET BOX FOR HOT FOOD WELLS, HEAT LAMP AND LED LIGHTS	32
E-13	24/23A	8A 120V 4" AFF FOR EACH BUILT-IN NEMA 5-20 RECEPTACLE OF STAINLESS STEEL FLOOR	
		OUTLET BOX FOR FROST TOP AND LED LIGHTS	32
E-14	25/25A	12.2A 120V 4" AFF FOR BUILT-IN NEMA 5-20 RECEPTACLE OF STAINLESS STEEL FLOOR	
		OUTLET BOX FOR HOT-TOP, HEAT LAMP AND LED LIGHTS OF FOOD GUARD	32
E-15	26/25A	2.5A 120V 4" AFF FOR BUILT-IN NEMA 5-20 RECEPTACLE OF STAINLESS STEEL FLOOR	
		OUTLET BOX FOR MOBILE MILK COOLER	32
E-16	27/27A	20A 120V COMPUTER GRADE CIRCUIT 4" AFF FOR BUILT-IN RECEPTACLE (NEMA 5-20R) OF	
		STAINLESS STEEL FLOOR OUTLET BOX FOR EACH MOBILE CASHIER COUNTER	32
E-17	28/27A	DATA CIRCUIT 4" AFF FOR FOR BUILT-IN DATA OUTLET (CAT-6) OF STAINLESS STEEL	
		FLOOR OUTLET BOX FOR EACH P.O.S. UNIT	32

REFER TO SHEET FS401a FOR ELECTRICAL ROUGH-IN NOTES

1 (BASE BID) FOOD SERVICE EQUIPMENT ELECTRICAL ROUGH-IN PLAN
1/4" = 1'-0"

1" ½" 0" ½" 1"
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NO.	DESCRIPTION	DATE

PROJECT NO.	25005
PHASE	BIDDING
DATE	10.08.26
PROJECT MANAGER	
QUALITY CONTROL	

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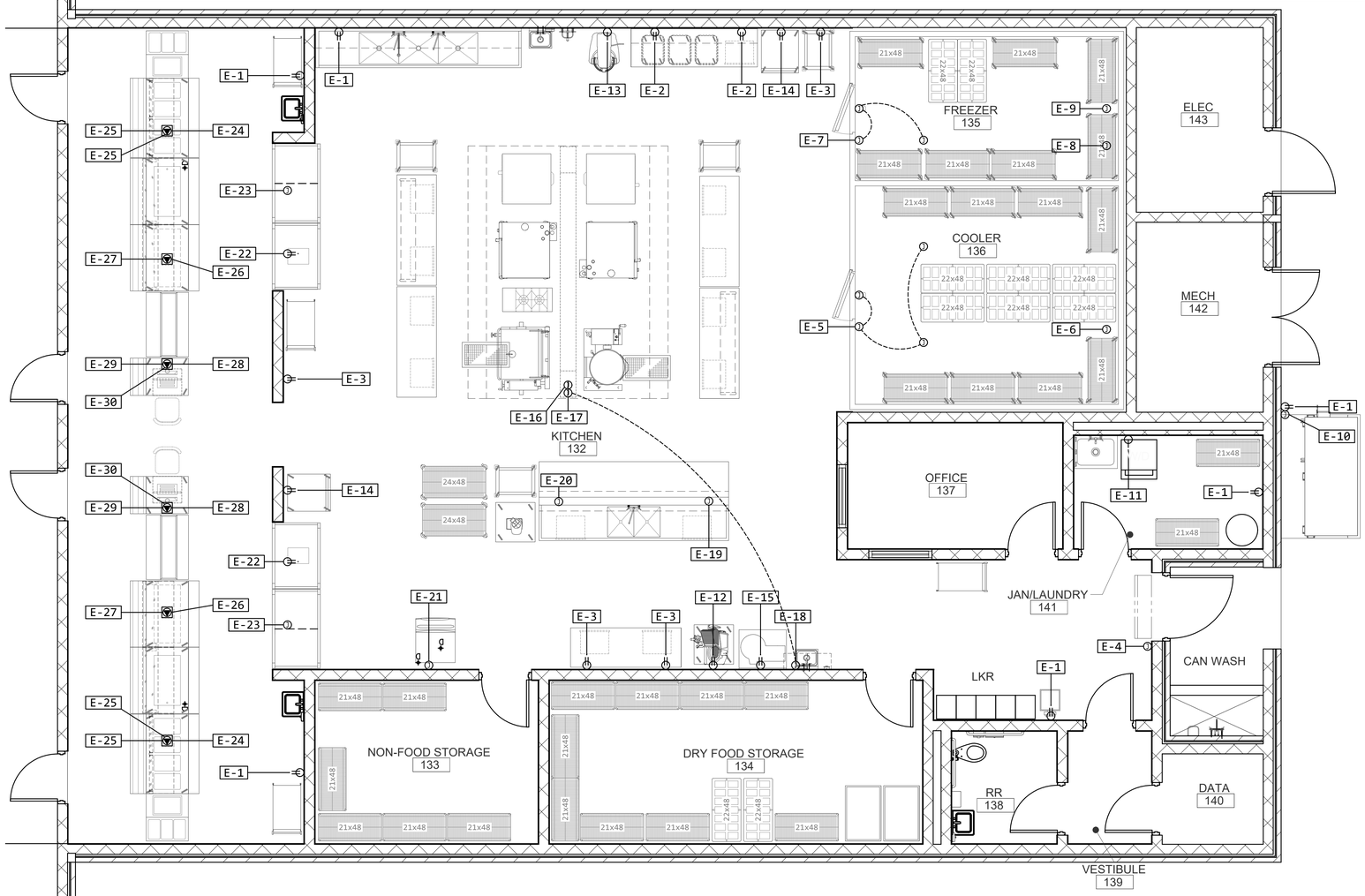
FS401
FOOD SERVICE EQUIPMENT ELECTRICAL ROUGH-IN PLAN

H/S

ELECTRICAL ROUGH-IN DATA SCHEDULE			
CONN. NO.	ITEM NO.	DESCRIPTION OF UTILITY REQUIREMENTS	NOTES
E-1	--	20A 120V CO 24" AFF	
E-2	--	20A 120V CO 46" AFF	
E-3	--	20A 120V CO 50" AFF	
E-4	3	5.1A 120V 90" AFF FOR AIR DOOR	7
E-5	8	5.9A 120V DFA FOR LIGHTS, DOOR HEATER, HEATED PRESSURE RELIEF PORT, AND	
		TEMPERATURE ALARM SYSTEM INSIDE WALK-IN COOLER ROOM	8-14
E-6	8	3A 120V DFA FOR EVAPORATOR COIL AND REFRIGERANT/LIQUID LINE SHUT-OFF VALVE OF	
		WALK-IN COOLER ROOM	8,10,11,15,16
E-7	8	5.9A 120V DFA FOR LIGHTS, DOOR HEATER, HEATED PRESSURE RELIEF PORT, AND	
		TEMPERATURE ALARM SYSTEM OF WALK-IN FREEZER ROOM	8-14
E-8	8	11.9A 208V 1-PH DFA FOR EVAPORATOR COIL AND REFRIGERANT/LIQUID LINE SHUT-OFF	
		VALVE OF WALK-IN FREEZER ROOM	8,10,11,15,16
E-9	8	2A 120V DFA FOR CONDENSATE DRAIN LINE HEATER OF WALK-IN FREEZER ROOM	8,10,11
E-10	9	34.4A (38.7 MCA/50A MOPD) 208V 3-PH 36" ABOVE CONCRETE PAD FOR REMOTE WALK-IN	
		COOLER/FREEZER REFRIGERATION SYSTEM	16,17
E-11	14	30A 120/208V 36" AFF FOR STACKED WASHER/DRYER - NEMA L14-30R RECEPTACLE REQUIRED	
E-12	16	5.6A 120V 24" AFF FOR SLICER - NEMA 5-20R RECEPTACLE REQUIRED	
E-13	17	5.6A 208V 3-PH 24" AFF FOR 40-QUART MIXER - NEMA L15-20R REQUIRED	6
E-14	21	16A 120V 50" AFF FOR MOBILE PROOFER HEATED CABINET - NEMA 5-20R REQUIRED	
E-15	24	13A 120V 24" AFF FOR FOOD CUTTER - NEMA 5-20R RECEPTACLE REQUIRED	
E-16	35	100A 120/208V 3-PH (4-WIRES+GROUND) DFA FOR UTILITY DISTRIBUTION SYSTEM	19-24
E-17	35/36	20A 120V CIRCUIT (24-HR SERVICE) DFA FOR EXHAUST/SUPPLY FAN CONTROL PANEL OF	
		EXHAUST HOOD	25-30

ELECTRICAL ROUGH-IN DATA SCHEDULE			
CONN. NO.	ITEM NO.	DESCRIPTION OF UTILITY REQUIREMENTS	NOTES
E-18	37	TERMINAL BLOCK DFA FOR FIRE SUPPRESSION SYSTEM	30-31
E-19	39	20A 120V CIRCUIT 6" AFF FOR BUILT-IN CONVENIENCE OUTLET (NEMA 5-20R) OF	
		PREPARATION COUNTER	18
E-20	40	12A 120V 6" AFF FOR BUILT-IN RECEPTACLE (NEMA 5-20R) OF PREPARATION COUNTER FOR	
		FOOD PROCESSOR	18
E-21	44	11.5A 120V 72" AFF FOR ICE MACHINE	
E-22	45	11.1A 120V 90" AFF FOR EACH REACH-IN REFRIGERATOR - NEMA 5-20R REQUIRED	
E-23	46	14.4A 208V 1-PH (3-WIRES+GROUND) 90" AFF FOR EACH REACH-IN WARMER	
E-24	48/48A	18A 208V 1-PH 4" AFF FOR BUILT-IN NEMA 6-30 RECEPTACLE OF STAINLESS STEEL	
		FLOOR OUTLET BOX FOR HOT FOOD WELLS, HEAT LAMP AND LED LIGHTS	32
E-25	49/48A	8A 120V 4" AFF FOR EACH BUILT-IN NEMA 5-20 RECEPTACLE OF STAINLESS STEEL FLOOR	
		OUTLET BOX FOR FROST TOP AND LED LIGHTS	32
E-26	50/50A	12.2A 120V 4" AFF FOR BUILT-IN NEMA 5-20 RECEPTACLE OF STAINLESS STEEL FLOOR	
		OUTLET BOX FOR HOT-TOP, HEAT LAMP AND LED LIGHTS OF FOOD GUARD	32
E-27	51/50A	2.5A 120V 4" AFF FOR BUILT-IN NEMA 5-20 RECEPTACLE OF STAINLESS STEEL FLOOR	
		OUTLET BOX FOR MOBILE MILK COOLER	32
E-28	52/53	20A 120V COMPUTER GRADE CIRCUIT 4" AFF FOR BUILT-IN RECEPTACLE (NEMA 5-20R) OF	
		STAINLESS STEEL FLOOR OUTLET BOX FOR EACH MOBILE CASHIER COUNTER	32
E-29	52/53	DATA CIRCUIT 4" AFF FOR FOR BUILT-IN DATA OUTLET (CAT-6) OF STAINLESS STEEL	
		FLOOR OUTLET BOX FOR EACH P.O.S. UNIT	32
E-30	56/53	20A 120V CIRCUIT 4" AFF FOR BUILT-IN RECEPTACLE (NEMA 5-20R) OF STAINLESS STEEL	
		FLOOR OUTLET BOX FOR EACH NOVELTY ICE CREAM CABINET (BY VENDOR)	32



1 (ALT-1) FOOD SERVICE EQUIPMENT ELECTRICAL ROUGH-IN PLAN
1/4" = 1'-0"

ELECTRICAL ROUGH-IN SYMBOLS & ABBREVIATIONS	
①	JUNCTION BOX
⊖	SINGLE RECEPTACLE
⊖⊖	DUPLEX RECEPTACLE
◀	STAINLESS STEEL FLOOR OUTLET BOX
V	VOLTS
PH	PHASE
KW	KILOWATT
MCA	MINIMUM CIRCUIT AMPACITY
CO	CONVENIENCE OUTLET
AFF	ABOVE FINISHED FLOOR
DFA	DOWN FROM ABOVE
UDS	UTILITY DISTRIBUTION SYSTEM
VFDS	VARIABLE FREQUENCY DRIVES

ELECTRICAL ROUGH-IN NOTES

1. ROUGH-IN PLAN SHOWS APPROXIMATE LOCATIONS FOR UTILITY REQUIREMENTS OF FOOD SERVICE EQUIPMENT SPECIFIED (INCLUDING EXISTING AND FUTURE EQUIPMENT) PLUS ELECTRICAL CONVENIENCE OUTLETS. CONTRACTOR SHALL FURNISH DIMENSIONED LOCATIONS FROM FINISHED WALLS AND/OR CENTER-LINE OF COLUMNS FOR ALL UTILITIES SHOWN ON CONTRACT DOCUMENT ROUGH-IN DRAWINGS.
2. WHERE POSSIBLE, ALL ELECTRICAL CONDUIT/WIRING SHALL BE EXTENDED UP THROUGH AND OUT OF BUILDING WALLS.
3. EXTEND AND CONNECT WIRING FROM JUNCTION BOXES TO CONNECTION POINTS ON FOOD SERVICE EQUIPMENT - DIVISION 26.
4. WALL-MOUNTED JUNCTION BOXES SHALL BE RECESSED IN BUILDING WALL SO THAT EQUIPMENT CAN BE INSTALLED AGAINST WALLS.
5. FURNISH AND INSTALL ALL NECESSARY LINE DISCONNECT SWITCHES, UNLESS SPECIFIED OTHERWISE - DIVISION 26.
6. INSTALL CORD/PLUG ASSEMBLIES (FURNISHED BY DIVISION 11) TO FOOD SERVICE EQUIPMENT WHERE REQUIRED - DIVISION 26.
7. INSTALL MICRO-SWITCH (FURNISHED BY MANUFACTURER) AT DOOR OPENING FOR ON/OFF OPERATION - DIVISION 26.
8. FURNISH AND INSTALL CONDUIT, JUNCTION BOXES, AND FIELD WIRING FOR COILS, CEILING-MOUNTED LIGHT FIXTURES, PRESSURE RELIEF PORTS, AND FREEZER DRAIN LINE HEATERS (FURNISHED BY DIVISION 11) OF WALK-IN COOLERS/AND FREEZERS - DIVISION 26.
9. HORIZONTAL RUNS OF CONDUIT FOR CEILING-MOUNTED LIGHT FIXTURES SHALL BE MOUNTED ON TOP OF WALK-IN CEILING PANELS - DIVISION 26.
10. ELECTRICAL CONDUIT WITHIN WALK-IN SHALL BE FILLED (INSIDE CONDUIT) WITH FOAM URETHANE TO PREVENT CONDENSATION - DIVISION 26.
11. PENETRATIONS OF WALK-IN CEILING/WALL PANELS SHALL BE SEALED WITH USDA-APPROVED SEALANT.
12. FURNISH AND INSTALL JUNCTION BOX ON TOP OF WALK-IN COOLER/FREEZER FOR POWER SOURCE OF TEMPERATURE ALARM SYSTEM (FURNISHED BY DIVISION 11) - DIVISION 26.
13. FURNISH AND INSTALL 18 GAUGE WIRING AND TEMPERATURE SENSORS OF TEMPERATURE ALARM SYSTEMS IN ACCORDANCE WITH SPECIFICATIONS - DIVISION 11.
14. REFER TO DETAILS D6 & D7, SHEET FS203 FOR ADDITIONAL INFORMATION AND REQUIREMENTS - DIVISIONS 11 & 26.
15. WALK-IN COOLER AND FREEZER EVAPORATOR COILS SPECIFIED INCLUDE PRE-WIRED ON-DEMAND DEFROST CONTROLLERS - OFF CYCLE/AIR (FOR COOLER) AND ELECTRIC HEAT (FOR FREEZER).
16. FURNISH AND INSTALL TWO (2) CONTROL WIRES FROM EVAPORATOR COIL TO ELECTRIC SHUT-OFF VALVE (FIELD INSTALLED ON REFRIGERANT LIQUID LINE BY DIVISION 11) LOCATED OUTSIDE REFRIGERATED ROOM - DIVISION 26. RE: DETAIL D7, SHEET FS203 FOR ADDITIONAL REQUIREMENTS.
17. REMOTE REFRIGERATION SYSTEM SHALL INCLUDE PRE-WIRED UL-LISTED CIRCUIT BREAKERS AND NON-FUSED LINE DISCONNECT SWITCH - DIVISION 11.
18. FURNISH AND INSTALL WIRING FROM JUNCTION BOX TO COUNTER RECEPTACLES (FURNISHED BY DIVSION 11) - DIVISION 26.
19. FURNISH AND INSTALL MAIN SERVICE FEEDERS AND OVERLOAD PROTECTION DEVICES FOR CONTINUOUS OPERATING LOAD OF UTILITY DISTRIBUTION SYSTEM (UDS) - DIVISION 26. LOADS (INCLUDING RESERVE POWER) INDICATED ON DRAWINGS ARE CALCULATED AT AND/OR EXCEED 125% OF CONTINUOUS OPERATING LOAD OF EQUIPMENT.
20. INSPECT UDS FOR LOOSE CONNECTIONS (CAUSED BY SHIPPING) AND TIGHTEN AS REQUIRED - DIVISION 26.
21. INTERCONNECT ELECTRICAL FIELD JOINT OF UDS BY BOLTING BUS BARS AND/OR CABLE BUS WIRING TOGETHER - DIVISION 26. FITTINGS, BOLTS, QUICK-DISCONNECT DEVICES, ETC. SHALL BE SUPPLIED AND PRE-FITTED WITH UDS.
22. UDS SHALL BE EQUIPPED WITH SINGLE-POINT CONNECTIONS, MAIN ELECTRICAL DISCONNECT, POINT-OF-USE CIRCUIT BREAKERS, AND POWER SHUT-OFF DEVICE (SHUNT TRIP BREAKER). POWER TO COOKING EQUIPMENT SHALL SHUT OFF WHEN ACTIVATED BY FIRE EXTINGUISHING AND/OR BUILDING FIRE ALARM SYSTEMS.
23. CONNECT FLEX CONDUIT W/LEADS AND/OR CORD/PLUG ASSEMBLIES (FURNISHED BY DIVISION 11) TO COOKING EQUIPMENT WHERE REQUIRED. DIVISION 26.
24. FURNISH AND INSTALL THREE (3) 120-VOLT WIRES FROM PRE-WIRED LIGHT SWITCH MOUNTED ON END RISER OF UDS TO JUNCTION BOXES (4-LOCATIONS) LOCATED ON TOP OF EXHAUST HOOD FOR PRE-WIRED EXHAUST HOOD LIGHTS - DIVISION 26.
25. WIRING OF EXHAUST AND SUPPLY FANS FOR EXHAUST HOOD SHALL BE INTERLOCKED TO MAINTAIN PROPER AIR BALANCE IN KITCHEN - DIVISION 26.
26. MAGNETIC STARTERS (OR VFDS) OF EXHAUST/SUPPLY FANS SHALL BE FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
27. FURNISH AND INSTALL CONTROL WIRES FROM EXHAUST HOOD CONTROL PANEL (MOUNTED ON UDS) TO MAGNETIC STARTERS (OR VFDS) OF EXHAUST/SUPPLY FAN PACKAGE (FURNISHED BY DIVISION 23) - DIVISION 26.
28. FURNISH AND INSTALL TWO (2) CONTROL WIRES FROM EXHAUST HOOD CONTROL PANEL TO EACH OF FOUR (4) HEAT SENSORS MOUNTED IN EXHAUST HOOD - DIVISION 26.
29. EXHAUST/SUPPLY FAN CONTROL PANELS AND SWITCHES FOR EXHAUST HOODS SHALL BE FURNISHED BY DIVISION 11, THEREFORE NOT REQUIRED BY MANUFACTURER OF EXHAUST/SUPPLY FAN PACKAGE.
30. REFER TO EXHAUST HOOD CONTROL PANEL WIRING DIAGRAM D10, SHEET FS203 FOR ADDITIONAL REQUIREMENTS - DIVISION 26.
31. FURNISH AND INSTALL THREE (3) 120-VOLT CONTROL WIRES FROM TERMINAL BLOCK OF FIRE SUPPRESSION SYSTEM TO FIRE SYSTEM INTERFACE OF EXHAUST HOOD CONTROL PANEL - DIVISION 26. EXHAUST FANS SHALL BE ACTIVATED AND SUPPLY FANS SHALL BE DE-ACTIVATED IN THE EVENT OF A FIRE.
32. INSTALL FLOOR MOUNTED STAINLESS STEEL OUTLET BOX/RECEPTACLES (FURNISHED BY DIVISION 11) - DIVISION 26. RE: DETAIL D9/FS203 FOR ADDITIONAL REQUIREMENTS.

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BID DOCUMENTS

FS401a

FOOD SERVICE EQUIP. ELEC. ROUGH-IN PLAN - AREA B ALTERNATES

H/S

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