ALBERT EINSTEIN HIGH SCHOOL

ELEVATOR MODERNIZATION

11135 NEWPORT MILL RD,
KENSINGTON, MD 20895

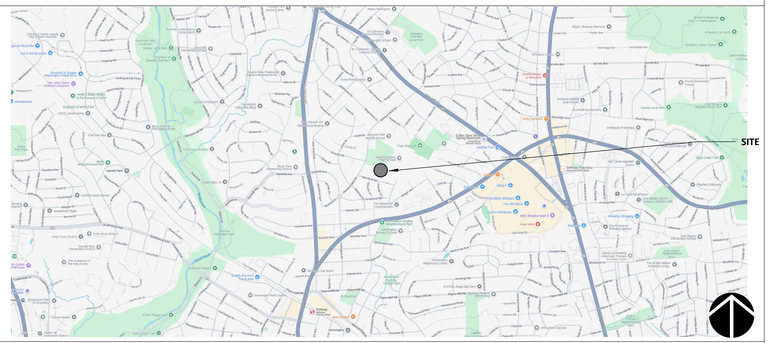
PERMIT/BID SET
02.04.2025

ABBREVIATIONS

NOTE: ABBREVIATIONS ARE GENERAL AND MAY NOT BE APPLICABLE TO THIS PROJECT.

ABV	ABOVE
ADA	AMERICANS w/ DISABILITY ACT
ADJ	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERE
APPROX	APPROXIMATELY
BD	BOARD
BLDG	BUILDING
BM	BEAM
B.O.F.	BOTTOM OF FRAMING
BTM	BOTTOM
B.T.U.	BRITISH THERMAL UNIT
BTW	BETWEEN
BU	BUILT-UP
CFM	CUBIC FEET PER MINUTE
C.J.	CONTROL JOINT
CLG	CEILING
CLOS	CLOSET
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CT	CERAMIC TILE
DBL	DOUBLE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
E	EAST
EA	EACH
E.J.	EXPANSION JOINT
ELEV	ELEVATION
ELEC	ELECTRIC
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE CABINET
F.F.	FINISH FLOOR
FLUOR	FLUORESCENT
FT	FEET (FOOT)
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GFI	GROUND FAULT INTERRUPTER
GL	GLASS
GND	GROUND
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
HB	HOSE BIB
HC	HANDICAPPED
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HR	HOUR
HT	HEIGHT
IN	INCH
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JST	JOIST
JT	JOINT
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
LF	LINEAR FEET
LTG	LIGHTING
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
MWK	MILLWORK
N	NORTH
N.I.C.	NOT IN CONTRACT
NOM	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PG	PAINT GRADE
P.L.	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLUM	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PSI	POUNDS PER SQUARE INCH
PT WD	PRESSURE TREATED WOOD
PTD	PAINTED
QTY	QUANTITY
R	RISER
RAD	RADIUS
RE:	REFERENCE
REF	REFRIGERATOR
REINF	REINFORCING
REQD	REQUIRED
RM	ROOM
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
S	SOUTH
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	SANITARY SINK
SST	STAINLESS STEEL
ST	STREET
STD	STANDARD
STL	STEEL
SY	SYMBOL
SYM	SYMMETRICAL
T	TREAD
T&G	TONGUE & GROOVE
TEL	TELEPHONE
THK	THICK
T.O.C	TOP OF CONCRETE/ CURB
T.O.D	TOP OF DECK
T.O.F.	TOP OF FOUNDATION
T.O.S.	TOP OF SLAB
T.O.W.	TOP OF WALL
TS	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WF	WATER FOUNTAIN
WS	WET STACK
WT	WEIGHT
YD	YARD

VICINITY MAP



DRAWING LIST

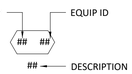
SYMBOLS

PARTITION TAG

REVISION TYPE

DOOR TAG

EQUIPMENT TAG



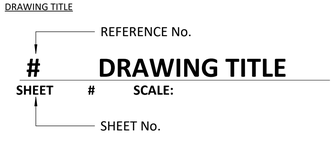
WINDOW TAG

RESTROOM ACCESSORY TAG

KEYNOTES

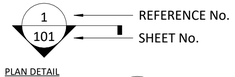
DRAWING TAGS

DRAWING TITLE

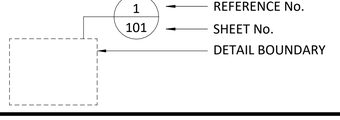


ELEVATION

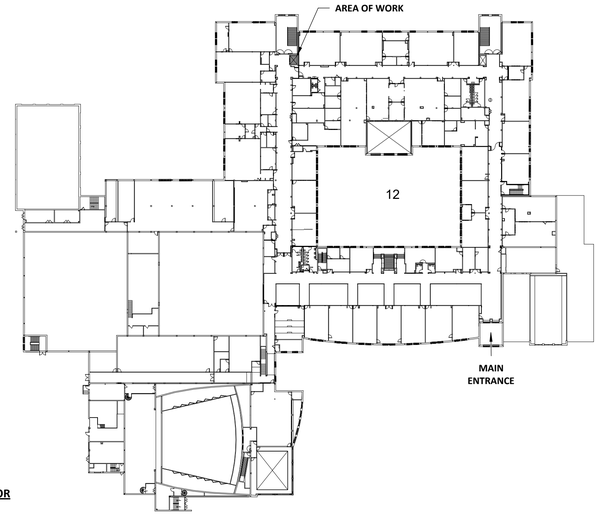
SECTION



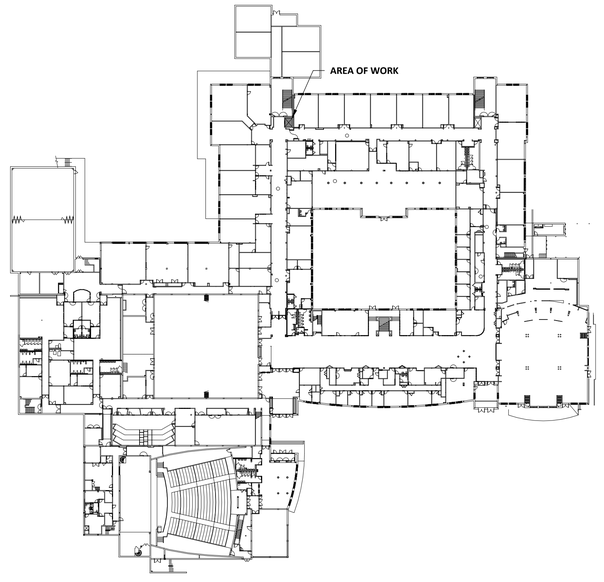
PLAN DETAIL



KEY PLANS



2ND FLOOR



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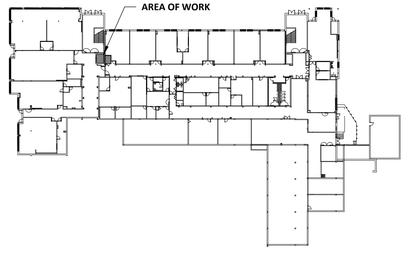

GROUND FLOOR

dci ARCHITECTS
107A W EDMONSTON DRIVE
ROCKVILLE, MD 20852
(P) 301-605-7005
(C) 301-404-0449

OWNER
MONTGOMERY COUNTY PUBLIC SCHOOLS
DIVISION OF CONSTRUCTION
45 W. GUDE DRIVE, 4th FLOOR
ROCKVILLE, MD 20850

MECHANICAL / PLUMBING / ELECTICAL ENGINEER
CTA CONSULTING ENGINEERS, INC
220 NORTH ADAMS ST
ROCKVILLE, MD 20850
(P) 301-762-7172

CERTIFICATION BLOCK

I certify that these documents were prepared and approved by me, and that I am a duly licensed architect under the laws of the State of Maryland

License Number: 13183

Expiration Date: July 12, 2026

ALBERT EINSTEIN HIGH SCHOOL
ELEVATOR MODERNIZATION
11135 Newport Mill Rd,
Kensington, MD 20895
COVER SHEET

PROJECT NO.	24-078
DRAWN BY	MAS
REVIEWED BY	EM/AC/EH

PROJECT ISSUE DATE
PERMIT/BID SET ISSUE **02.04.2025**

REV.	ISSUE:	DATE

DRAWING STAMP

SHEET NUMBER

G000

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GENERAL NOTES

1. THE CONTRACT DOCUMENTS INCLUDE THE WORKING DRAWINGS, ADDENDA, MODIFICATIONS, GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT AND SPECIFICATIONS
2. THE CONTRACT DOCUMENTS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THE CONTRACT DOCUMENTS SHALL NOT BE USED BY OWNER OR TENANT FOR OTHER PROJECTS OR EXTENSIONS TO THE PROJECT, NOR ARE THEY TO BE MODIFIED IN ANY MANNER WHATSOEVER EXCEPT BY AGREEMENT IN WRITING WITH THE ARCHITECT.
3. PERMITS: GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, EXCEPT BUILDING PERMIT.
4. QUALITY: CONTRACTOR SHALL PERFORM ALL WORK AND INSTALL ALL COMPONENTS IN A PROFESSIONAL MANNER. ALL FINISH WORK TO BE TRUE, LEVEL & PLUMB. ALL JOINTS TO BE TIGHT & CLEAN.
5. CODE COMPLIANCE: WORK SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE & FEDERAL CODES INCLUDING NFPA; USE TESTED AND CERTIFIED ASSEMBLIES, AS REQUIRED BY CODE.
6. HANDICAP ACCESSIBILITY: CONTRACTOR SHALL COMPLY WITH ACCESSIBILITY GUIDELINES 36 CFR PART 1191 OF THE FEDERAL REGISTER, ITS PREVIOUS TO ANSI STANDARD A117.1, AND TITLE III OF THE AMERICAN WITH DISABILITY ACT (ADA), AND LOCAL ORDINANCES.
7. WARRANTY: ALL CONSTRUCTION, MATERIALS, PRODUCTS AND WORK TO BE WARRANTED FOR A PERIOD OF TWO YEARS FROM DATE OF FINAL ACCEPTANCE BY THE OWNER, UNLESS LONGER PERIODS ARE SPECIFIED FOR SPECIFIC MANUFACTURER'S / SYSTEMS, IN WHICH CASE THOSE LONGER PERIODS SHALL APPLY.
8. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NO MEASUREMENT SHALL BE SCALED FROM THE CONTRACT DRAWINGS. CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION IF A DIMENSION(S) IS IN QUESTION.
9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS FOR ACCURACY AND CONFIRMING THAT WORK IS BUILDABLE AS SHOWN BEFORE PROCEEDING WITH CONSTRUCTION. CLARIFICATIONS REGARDING ANY CONFLICTS SHALL BE ACHIEVED PRIOR TO RELATED WORK BEING STARTED.
10. DIMENSIONS AND NOTES ON ENLARGED PLANS AND DETAILS ARE TO OVERRIDE SMALLER SCALE DRAWINGS. ALL DIMENSIONS ARE TO FACE OF DRYWALL UNLESS NOTED OTHERWISE.
11. REMOVE ALL DEBRIS, PACKING MATERIAL, DEMOLISHED MATERIAL AND EXTRANEOUS TRASH GENERATED BY CONSTRUCTION FROM BUILDING & SITE UNLESS NOTED, TO BE TURNED OVER TO OWNER. ALL DEMOLISHED MATERIAL NOT TO BE TURNED OVER OWNER SHALL BECOME THE PROPERTY OF GENERAL CONTRACTOR.
12. ALL MATERIAL, HARDWARE, FIXTURES AND FINISHED TO BE BUILDING STANDARD UNLESS NOTED OTHERWISE. BUILDING STANDARD INFORMATION IS AVAILABLE THOROUGH THE OWNER'S REPRESENTATIVES AND TYPICALLY MATCHES EXISTING INTERIOR CONSTRUCTION.
13. ALL GENERAL CONTRACTORS & SUBCONTRACTORS ARE TO VISIT THE SITE PRIOR TO COMPLETING BID TO VERIFY EXISTING CONDITIONS. GENERAL CONTRACTOR & SUBCONTRACTORS TO PROVIDE WRITTEN DOCUMENTATION OF ANY DISCREPANCY BETWEEN SITE CONDITIONS & DOCUMENTS. SUBMISSION OF BID IS CONFIRMATION THAT EXISTING CONDITIONS HAVE BEEN FULLY TAKEN INTO CONSIDERATIONS & ARE REFLECTED IN THE COSTS PROVIDED.
14. SUBMIT SHOP DRAWINGS AND SAMPLES FOR ALL TRADES AS SOON AS POSSIBLE TO THE ARCHITECT, ALLOWING TEN (10) WORKING DAYS FOR REVIEW. SHOP DRAWINGS SHALL BE REVIEWED & APPROVED BY CONTRACTOR PRIOR SUBMITTING THEM TO ARCHITECT. NO CONSTRUCTION SHALL PROCEED UNTIL THE APPROVAL OF THESE DRAWINGS. ALL TRADES SHALL BE REVIEWED BY THE ARCHITECT AT THE SAME TIME. CONTRACTOR SHALL PROVIDE MANUFACTURER'S SPECIFICATION, INSTALLATION, INSTRUCTION, SHOP DRAWINGS AND SAMPLES FOR REVIEW AND APPROVAL OF ALL MATERIALS AND METHODS TO BE USED PRIOR TO ORDERING OR PROCEEDING WITH THE WORK. CONTRACTOR SHALL FOLLOW PROCEDURES. IF THESE ARE CONTRARY TO THE CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT, IN WRITING, IMMEDIATELY TO RESOLVE DISCREPANCIES PRIOR TO PROCEEDING.
15. CONTRACTOR TO PROVIDE 2X FIRE RESISTANT BLOCKING AS NECESSARY BEHIND ALL WALL MOUNTED INSTALLATIONS.
16. CONTRACTOR TO PROVIDE BUILDING CONSTRUCTION REPRESENTATIVE WITH COPIES OF DELIVERY, AND CONSTRUCTION SCHEDULES. CONTRACTOR TO COORDINATE ALL SCHEDULES WITH BUILDINGS CONSTRUCTION REPRESENTATIVE.
17. CUTTING & PATCHING: CONTRACTOR TO PATCH, REPAIR & REFINISH WORK DAMAGED AS A RESULT OF DEMOLITION OR REMOVAL OF CONSTRUCTION TO MATCH ADJACENT FINISH. PATCH THRU-WALL/ THRU-FLOOR PENETRATIONS TO MAINTAIN EXISTING BUILDING INTEGRITY.
18. IF NEEDED, CORING, DRILLING OR OTHER SUCH WORK IN ADJACENT TO OCCUPIED AREAS SHALL BE PERFORMED AT HOURS MINDFUL OF THE AFFECTED OCCUPANCY UNLESS OTHERWISE INDICATED. GENERAL CONTRACTOR SHALL DIRECTLY COORDINATE WITH BUILDING OWNER'S REPRESENTATIVE AND AFFECTED TENANT(S).
19. IF NEEDED, NO CORE DRILLING SHALL BE PERFORMED BEFORE 8:30 AM MONDAY - FRIDAY OR BEFORE 9:00 AM SATURDAY - SUNDAY. WITH REGARD TO CORE DRILLED SLAB OPENINGS, A DRAWING SHOWING THE LOCATION AND SIZE OF ALL OPENINGS SHALL BE SUBMITTED TO THE BUILDING OWNER'S REPRESENTATIVE FOR REVIEW BY THE BUILDING STRUCTURAL ENGINEER.
20. IF REQUIRED, UTILITY OUTAGES SHALL BE SCHEDULED OUTSIDE NORMAL WORKING HOURS FOR THE AFFECTED OCCUPANCY UNLESS OTHERWISE INDICATED.
21. IF REQUIRED, ALL ROOF WORK TO BE COMPLETED BY MCPS APPROVED ROOFING CONTRACTOR.
22. PROVIDE A SMOOTH, NEAT, CONTINUOUS APPEARANCE WHERE DEMOLITION WORK MEETS ADJACENT EXISTING WORK. REMOVE EXISTING FINISHES AS REQUIRED TO PROVIDE NEAT, STRAIGHT SEAMS AND TRANSITIONS BETWEEN EXISTING AND MATCHING NEW FINISHES.
23. CONTRACTOR WILL COORDINATE AND OBTAIN ALL PERMITS AND APPROVALS TO HAVE AN OPEN TOP DUMPSTER AT CURBSIDE OF THE BUILDING.
24. CONTRACTOR TO PROTECT EXISTING FLOORING TO REMAIN WITH MINIMUM 1/2" PLYWOOD SHEETS.

TYPICAL ADA DETAILS

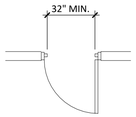


FIGURE #1a
CLEAR DOORWAY WIDTH AND DEPTH

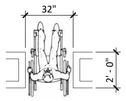


FIGURE #1b
CLEAR DOORWAY WIDTH AND DEPTH. MAXIMUM DOORWAY DEPTH

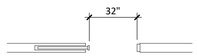


FIGURE #1c
CLEAR DOORWAY WIDTH AND DEPTH SLIDING DOOR

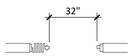
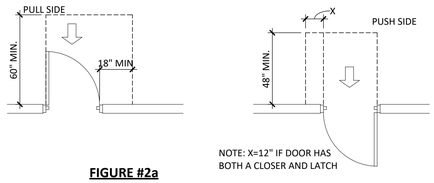


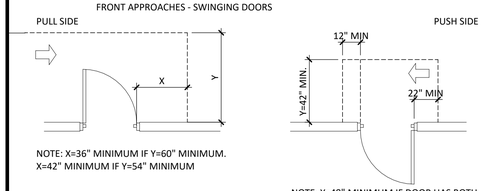
FIGURE #1d
CLEAR DOORWAY WIDTH AND DEPTH FOLDING DOOR

1. CLEAR WIDTH EXCEPTION: DOORS NOT REQUIRING FULL USER PASSAGE, SUCH AS SHALLOW CLOSETS, MAY HAVE THE CLEAR OPENING REDUCED TO 20 INCHES MINIMUM



NOTE: X=12" IF DOOR HAS BOTH A CLOSER AND LATCH

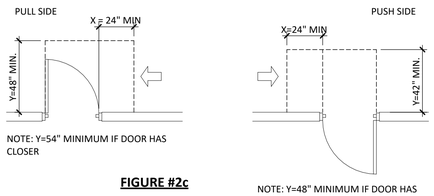
FIGURE #2a
FRONT APPROACHES - SWINGING DOORS



NOTE: X=36" MINIMUM IF Y=60" MINIMUM.
X=42" MINIMUM IF Y=54" MINIMUM

NOTE: Y=48" MINIMUM IF DOOR HAS BOTH A CLOSER AND LATCH

FIGURE #2b
HINGE SIDE APPROACHES - SWINGING DOORS



NOTE: Y=54" MINIMUM IF DOOR HAS CLOSER

NOTE: Y=48" MINIMUM IF DOOR HAS CLOSER

FIGURE #2c
LATCH SIDE APPROACHES - SWINGING DOORS

APPLICABLE CODES

JURISDICTION:		**MONTGOMERY COUNTY, MD**
BUILDING CODE:	2018	INTERNATIONAL BUILDING CODE (IBC) AS MODIFIED BY MONTGOMERY COUNTY AMENDMENTS
	2018	INTERNATIONAL EXISTING BUILDING CODE (IEBC)
ELECTRICAL CODE:		MONTGOMERY COUNTY CODE, CHAPTER 17 ELECTRICITY NFPA 70 (NATIONAL ELECTRICAL CODE)
ACCESSIBILITY CODE:		COMAR 09.12.53 MARYLAND ACCESSIBILITY CODE
MECHANICAL CODE:	2018	INTERNATIONAL MECHANICAL CODE (IMC)
ENERGY CODE:	2018	INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
PLUMBING CODE:		WASHINGTON SUBURBAN SANITARY COMMISSION (WSSC)
FUEL GAS CODE:	2018	INTERNATIONAL FUEL GAS CODE (ICC)
FIRE & LIFE-SAFETY CODE:		MONTGOMERY COUNTY CODE CHAPTER 22 FIRE SAFETY CODE
	2015	NFPA 1 FIRE CODE
	2015	NFPA 101 LIFE SAFETY CODE
ELEVATOR CODE:		ASME 17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS

CODE ANALYSIS

BUILDING DESCRIPTION:

PROJECT DESCRIPTION: ELEVATOR MODERNIZATION FOR ONE EXISTING HYDRAULIC ELEVATORS. EXIST CABS TO BE REFURBISHED; NEW MACHINE RM EQUIPM, DOORS AND CONTROLS. NEW AC VENTILATION

	EXISTING	PROPOSED
IBC OCCUPANCY CLASSIFICATION	E AND A3	E AND A3 (NO CHANGE)
NFPA 101 - OCCUPANCY CLASSIFICATION	EDUCATION AND ASSEMBLY	EDUCATION AND ASSEMBLY (NO CHANGE)
TYPE OF CONSTRUCTION	II-B IBC	II-B IBC
NUMBER OF STORIES ABOVE GRADE (BLDG)	3	3
HEIGHT ABOVE GRADE (BLDG)	APPROX. 35'	APPROX. 35' (NO CHANGE)
HIGH RISE (Y/N)	N	N
STANDPIPES (Y/N)	N/A	N/A
FULLY SPRINKLERED (Y/N)	Y	Y
FIRE ALARM (Y/N)	Y	Y
FLOOR AREA OF RENOVATION (GROSS)	330 SF	330 SF (NO CHANGE)
BUILDING AREA	APPROX. 274,931 SF	NO CHANGE
CODES USED FOR DESIGN	IBC	IBC 2018

OCCUPANT LOAD: (NO CHANGE)

FINISH CLASS RATINGS:

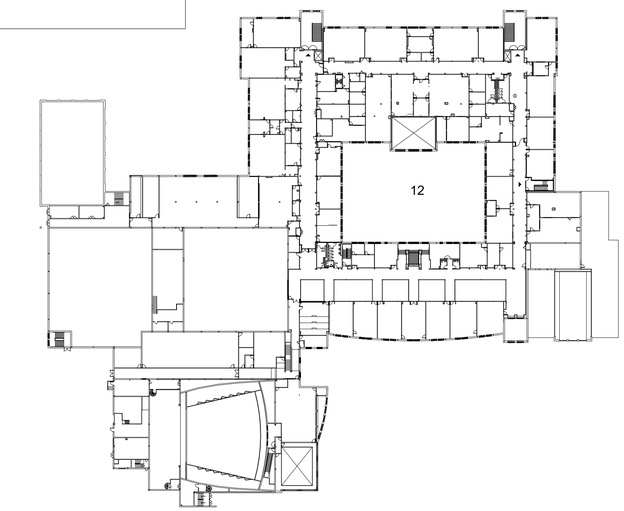
ALL FLOOR, WALL AND CEILING FINISHES WILL MEET OR EXCEED SMOKE DEVELOPMENT AND FLAME SPREAD RATING REQUIREMENTS OF IBC 2018 CHAPTER 8. (USE: E)
MINIMUM FLOOR FINISH RATING REQUIRED: CLASS 'II'
MINIMUM WALL/CEILING FINISH RATING REQUIRED: CLASS 'C'

LIFE SAFETY PLANS (NO CHANGE TO EGRESS COMPONENTS)

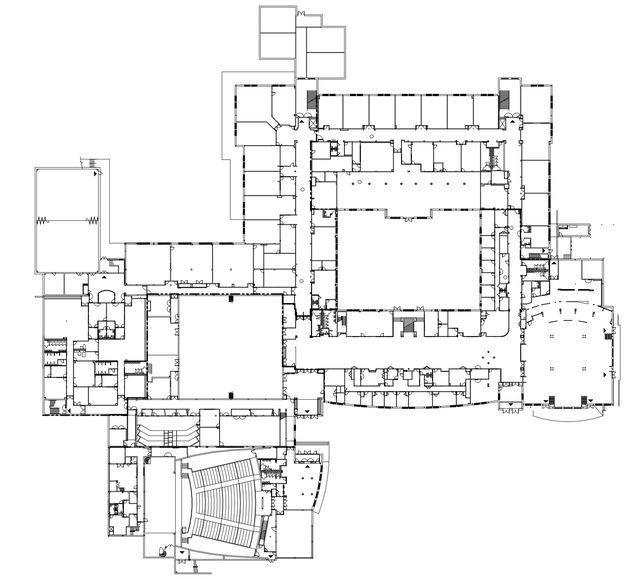
EXIST 1 HR FIRE RATED PARTITION

EXIST 2 HR FIRE RATED PARTITION

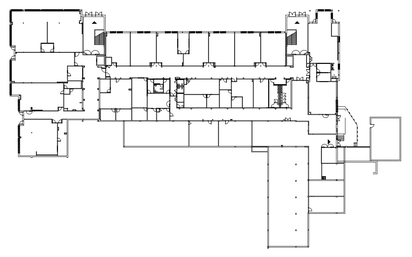
EXIST EXIT



2ND FLOOR



1ST FLOOR



GROUND FLOOR

dci ARCHITECTS
107A W EDMONSTON DRIVE
ROCKVILLE, MD 20852
(P) 301-605-7005
(C) 301-404-0449

OWNER
MONTGOMERY COUNTY PUBLIC SCHOOLS
DIVISION OF CONSTRUCTION
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MECHANICAL / PLUMBING / ELECTICAL ENGINEER
CTA CONSULTING ENGINEERS, INC
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CERTIFICATION BLOCK

I certify that these documents were prepared and approved by me, and that I am a duly licensed architect under the laws of the State of Maryland

License Number: 13183

Expiration Date: July 12, 2026

ALBERT EINSTEIN HIGH SCHOOL ELEVATOR MODERNIZATION

11135 Newport Mill Rd,
Kensington, MD 20895

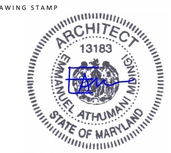
GENERAL NOTES, CODE ANALYSIS, AND ADA DETAILS

PROJECT NO.	24-078
DRAWN BY	MAS
REVIEWED BY	EM/AC/EH

PROJECT ISSUE DATE
PERMIT/BID SET ISSUE 02.04.2025

REV.	ISSUE:	DATE

DRAWING STAMP



SHEET NUMBER
G001

T:\Shared drives\DCI\Projects\24000\24-078 MCPS Elevators Albert Einstein HS\DWG\24-1111 MCPS Albert Einstein HS Elevator.rvt

PLAN LEGEND

EXIST. WALL / PARTITION & DOOR TO REMAIN

NEW WALL / PARTITION NEW DOOR

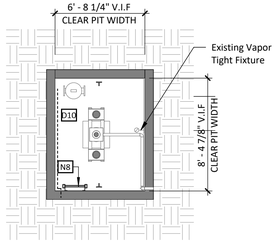
WALL/ PARTITION OR DOOR TO BE DEMOLISHED

0 2' 4' 8' 12'

1/4" = 1'-0"

GENERAL NOTES:

1. PATCH AND REPAIR ANY DAMAGE TO ADJACENT SURFACES AND FINISHES TO PROVIDE A SEAMLESS APPEARANCE. PAINT WALLS TO MATCH EXISTING; REPLACE ANY DAMAGED FLOORING AND WALL BASE IN KIND TO MATCH EXIST.
2. REF TO MEP DRAWINGS FOR NEW ELEV MACHINE ROOM AND ROOFTOP EQUIP LOCATIONS.
3. SEAL AROUND ALL OPENINGS IN FIRE RATED ASSEMBLIES WITH FIRE RATED SEALANT.
4. PATCH AND REPAIR ANY ABANDONED OPENINGS IN ELEVATOR HOISTWAYS AND MACHINE ROOMS WITH LIKE ASSEMBLIES TO MAINTAIN ALL EXIST FIRE RATINGS.



7 PROP PIT PLAN

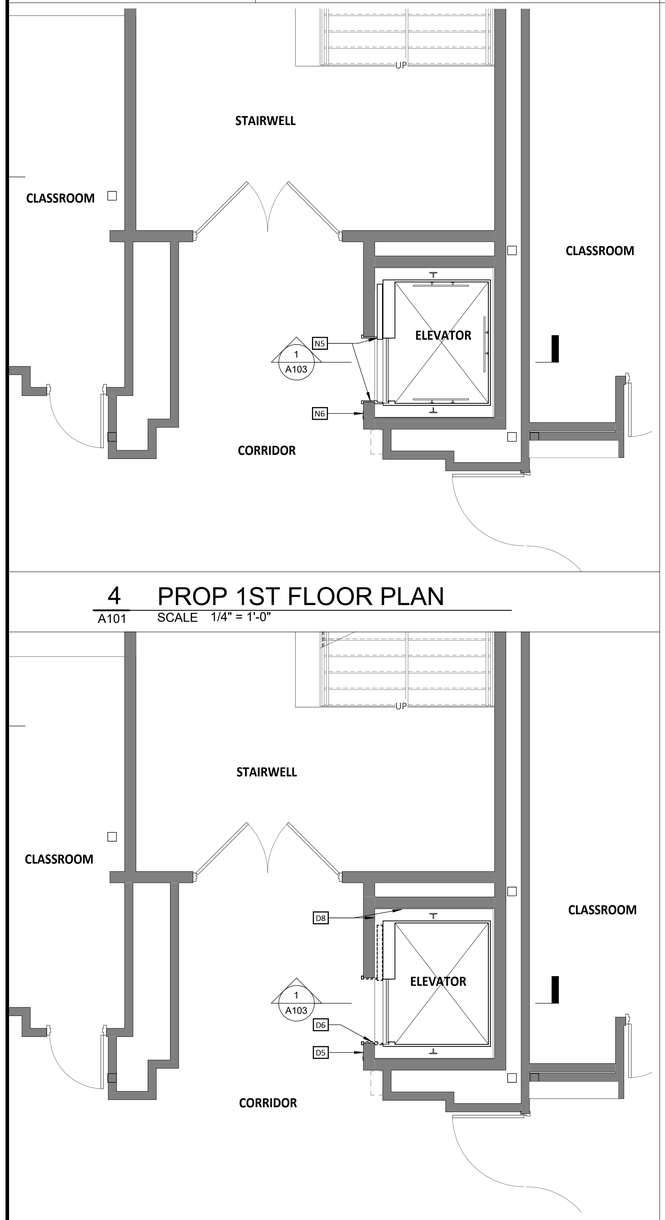
A101 SCALE 3/16" = 1'-0"

DEMOLITION KEYED NOTES

KEY #:	NOTE
D1	DEMO EXIST PUMP, CONTROLLERS AND PIPING; REF MEP DWGS.
D2	EXIST RATED DOOR TO REMAIN. CLEAN AND REPAIR ANY DAMAGE FOR A SEAMLESS FINISH.
D3	EXIST ELEVATOR EQUIPMENT TO REMAIN INCLUDES - JACKS, BUFFERS AND PIT CHANNELS, SLING AND PLATFORM, AND CAR SHELL.
D4	DEMO EXIST SLIDE GUIDES, CAB INTERIOR FINISHES, LIGHTS, CAR AND HOISTWAY DOOR PANELS, CAR AND HOISTWAY DOOR EQUIPMENT, WIRING AND CONDUIT, AND CAR TOP FAN.
D5	DEMO ALL CALL BUTTONS, HALL LANTERNS, AND SIGNAGE. PATCH AND REPAIR WALL AND PREPARE FOR NEW FIXTURE INSTALLATIONS.
D6	EXIST DOOR FRAME TO REMAIN; PREPARE TO BE RECLAD WITH SS.
D8	ALL EXIST WALLS TO REMAIN.
D9	DEMO EXIST PIT LADDER.
D10	RELOCATE SUMP PUMP LINE, ELECTRICAL SWITCH. SEE MPE DWG.

PROPOSED KEYED NOTES

KEY #:	NOTE
N1	EXIST DOOR AND FRAME TO REMAIN. PROTECT DURING CONSTRUCTION.
N2	NEW ELEV EQUIPMENT; REF MEP DWGS.
N3	NEW ELEVATOR EQUIP TO INCLUDE: SLIDE GUIDES, CAB INTERIOR SS #4 WALL FINISH, RUBBER TILE FLOORING, CEILING, CAB RETURNS AND TRANSOM CLADDING, CAR AND HOISTWAY DOOR PANELS AND EQUIP, AND WIRING AND CONDUIT.
N4	CLEAN AND PAINT PLATFORM AND SLING.
N5	NEW CALL BUTTONS, HALL LANTERNS AND SIGNAGE TYPICAL AT ALL LANDINGS.RETAIN AND RECONDITION HATCH DOOR SILLS
N6	NEW NEW SS #4 DOOR FRAME CLADDING AT ALL LANDINGS.
N7	NEW SS #4 FLAT HANDRAILS, 3"H; TYP ALL SIDES W/O DOORS
N8	NEW PIT LADDER

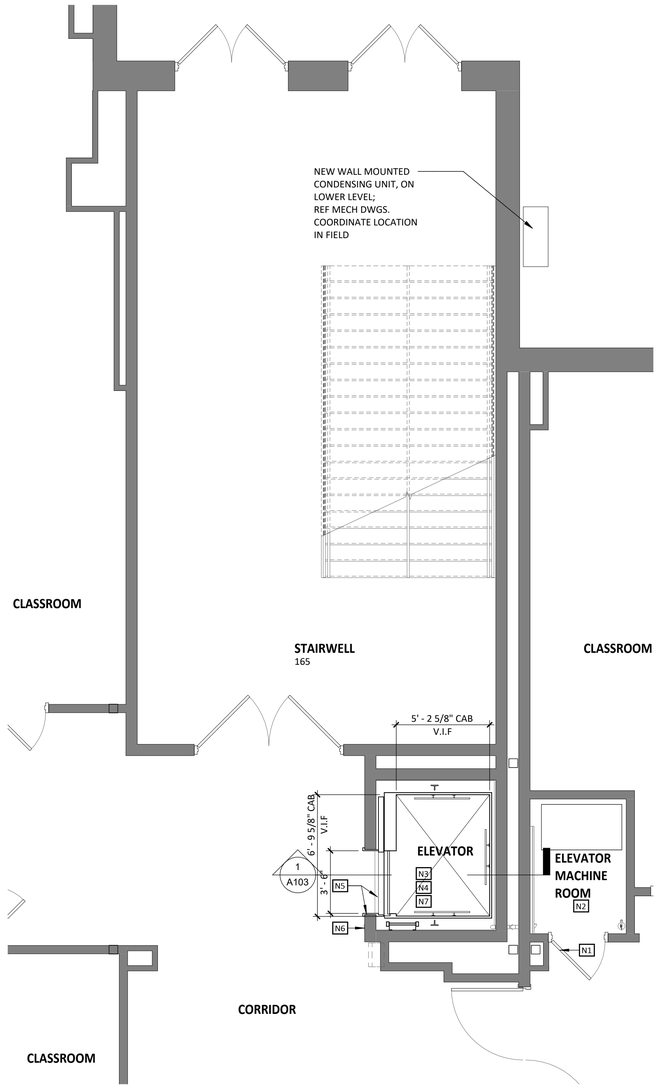


4 PROP 1ST FLOOR PLAN

A101 SCALE 1/4" = 1'-0"

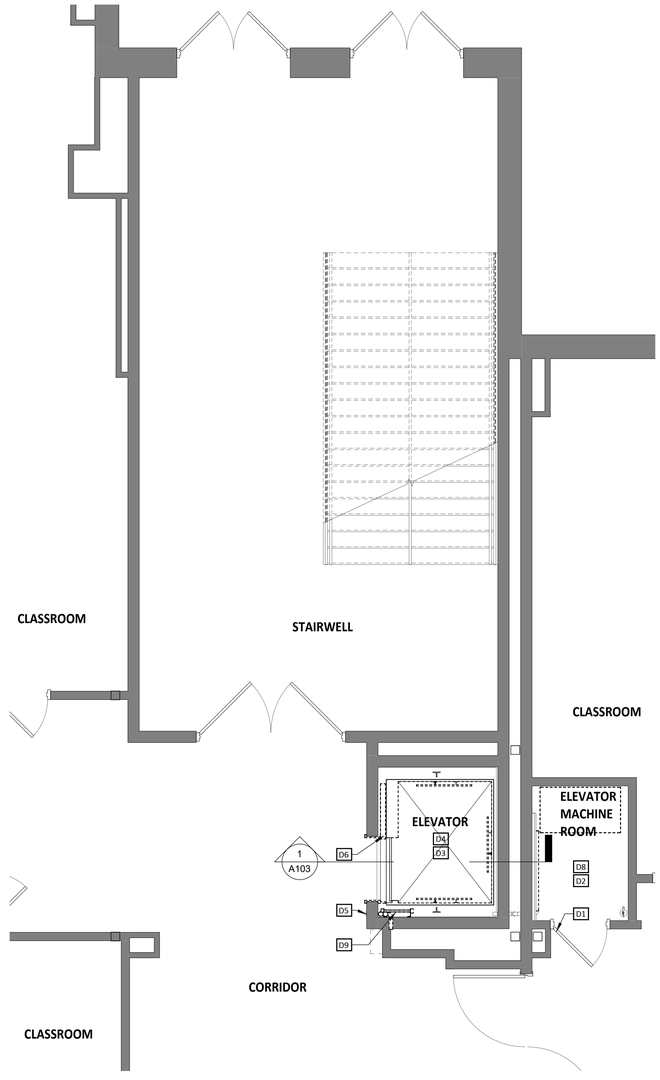
3 DEMO 1 ST FLOOR PLAN

A101 SCALE 1/4" = 1'-0"



2 PROP GROUND LEVEL PLAN

A101 SCALE 1/4" = 1'-0"



1 DEMO - GROUND LEVEL PLAN

A101 SCALE 1/4" = 1'-0"

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45 W. GUDE DRIVE, 4th FLOOR
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CTA CONSULTING ENGINEERS, INC
220 NORTH ADAMS ST
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(P) 301-762-7172

CERTIFICATION BLOCK

I certify that these documents were prepared and approved by me, and that I am a duly licensed architect under the laws of the State of Maryland

License Number: 13183

Expiration Date: July 12, 2026

ALBERT EINSTEIN HIGH SCHOOL ELEVATOR MODERNIZATION

11135 Newport Mill Rd,
Kensington, MD 20895

ELEVATOR - DEMO AND PROPOSED FLOOR PLANS

PROJECT NO.	24-078
DRAWN BY	MAS
REVIEWED BY	EM/AC/EH

PROJECT ISSUE DATE
PERMIT/BID SET ISSUE **02.04.2025**

REV.	ISSUE:	DATE

DRAWING STAMP

ARCHITECT 13183 EMMANUEL ATHUMANI MUNYWOKI STATE OF MARYLAND

SHEET NUMBER

A101

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PLAN LEGEND

EXIST. WALL / PARTITION & DOOR TO REMAIN

NEW WALL / PARTITION NEW DOOR

WALL/ PARTITION OR DOOR TO BE DEMOLISHED

0 2' 4' 8' 12'

1/4" = 1'-0"

GENERAL NOTES:

1. PATCH AND REPAIR ANY DAMAGE TO ADJACENT SURFACES AND FINISHES TO PROVIDE A SEAMLESS APPEARANCE. PAINT WALLS TO MATCH EXISTING; REPLACE ANY DAMAGED FLOORING AND WALL BASE IN KIND TO MATCH EXIST.
2. REF TO MEP DRAWINGS FOR NEW ELEV MACHINE ROOM AND ROOFTOP EQUIP LOCATIONS.
3. SEAL AROUND ALL OPENINGS IN FIRE RATED ASSEMBLIES WITH FIRE RATED SEALANT.
4. PATCH AND REPAIR ANY ABANDONED OPENINGS IN ELEVATOR HOISTWAYS AND MACHINE ROOMS WITH LIKE ASSEMBLIES TO MAINTAIN ALL EXIST FIRE RATINGS.

DEMOLITION KEYED NOTES

KEY #:	NOTE
D1	DEMO EXIST PUMP, CONTROLLERS AND PIPING; REF MEP DWGS.
D2	EXIST RATED DOOR TO REMAIN. CLEAN AND REPAIR ANY DAMAGE FOR A SEAMLESS FINISH.
D3	EXIST ELEVATOR EQUIPMENT TO REMAIN INCLUDES - JACKS, BUFFERS AND PIT CHANNELS, SLING AND PLATFORM, AND CAR SHELL.
D4	DEMO EXIST SLIDE GUIDES, CAB INTERIOR FINISHES, LIGHTS, CAR AND HOISTWAY DOOR PANELS, CAR AND HOISTWAY DOOR EQUIPMENT, WIRING AND CONDUIT, AND CAR TOP FAN.
D5	DEMO ALL CALL BUTTONS, HALL LANTERNS, AND SIGNAGE. PATCH AND REPAIR WALL AND PREPARE FOR NEW FIXTURE INSTALLATIONS.
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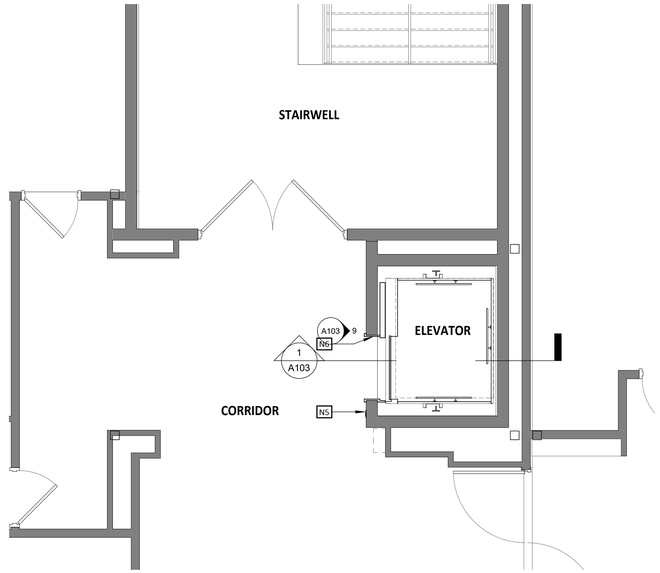
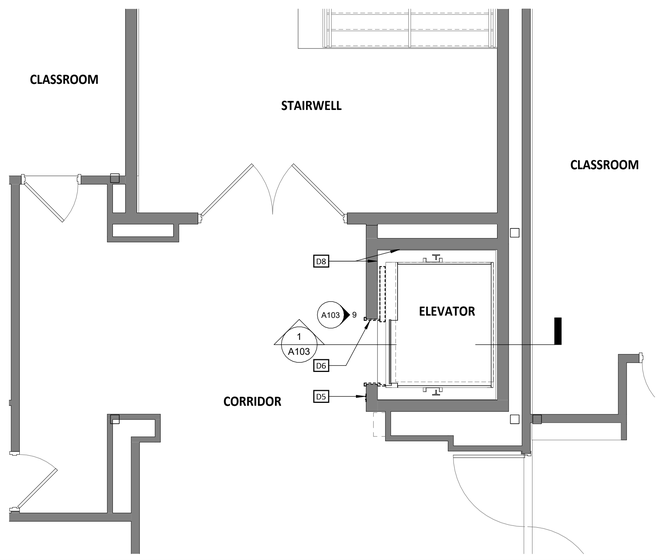
PROPOSED KEYED NOTES

KEY #:	NOTE
N1	EXIST DOOR AND FRAME TO REMAIN. PROTECT DURING CONSTRUCTION.
N2	NEW ELEV EQUIPMENT; REF MEP DWGS.
N3	NEW ELEVATOR EQUIP TO INCLUDE: SLIDE GUIDES, CAB INTERIOR SS #4 WALL FINISH, RUBBER TILE FLOORING, CEILING, CAB RETURNS AND TRANSOM CLADDING, CAR AND HOISTWAY DOOR PANELS AND EQUIP, AND WIRING AND CONDUIT.
N4	CLEAN AND PAINT PLATFORM AND SLING.
N5	NEW CALL BUTTONS, HALL LANTERNS AND SIGNAGE TYPICAL AT ALL LANDINGS.RETAIN AND RECONDITION HATCH DOOR SILLS
N6	NEW NEW SS #4 DOOR FRAME CLADDING AT ALL LANDINGS.
N7	NEW SS #4 FLAT HANDRAILS, 3"H; TYP ALL SIDES W/O DOORS
N8	NEW PIT LADDER



2 PROP 2ND FLOOR PLAN
A102 SCALE 1/4" = 1'-0"



1 DEMO 2ND FLOOR PLAN
A102 SCALE 1/4" = 1'-0"

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License Number: 13183

Expiration Date: July 12, 2026

ALBERT EINSTEIN HIGH SCHOOL ELEVATOR MODERNIZATION

11135 Newport Mill Rd,
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ELEVATOR - DEMO AND PROPOSED FLOOR PLANS

PROJECT NO.	24-078
DRAWN BY	MAS
REVIEWED BY	EM/AC/EH

PROJECT ISSUE DATE
PERMIT/BID SET ISSUE **02.04.2025**

REV.	ISSUE:	DATE

DRAWING STAMP

ARCHITECT 13183 EMMANUEL ATHUMANI MUGWIMI STATE OF MARYLAND

SHEET NUMBER

A102

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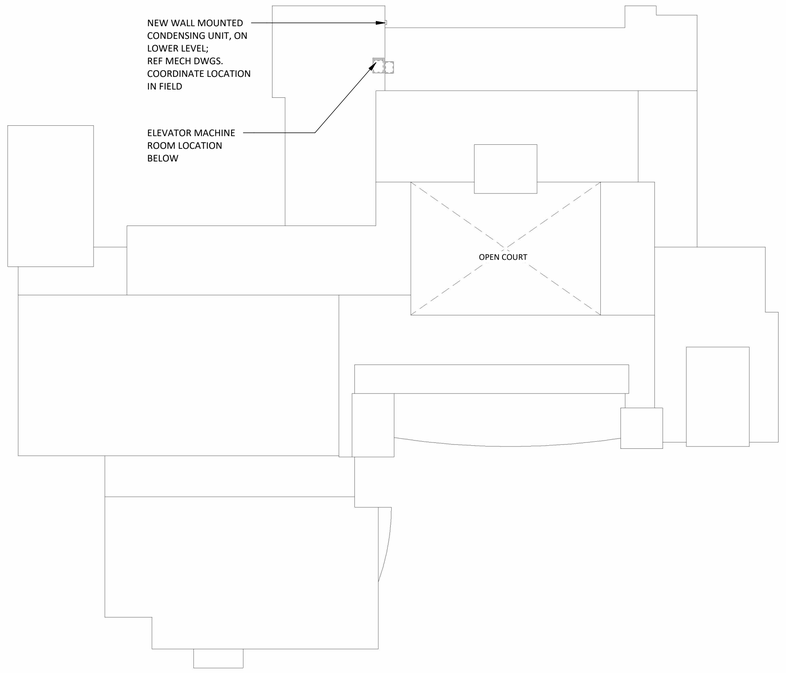
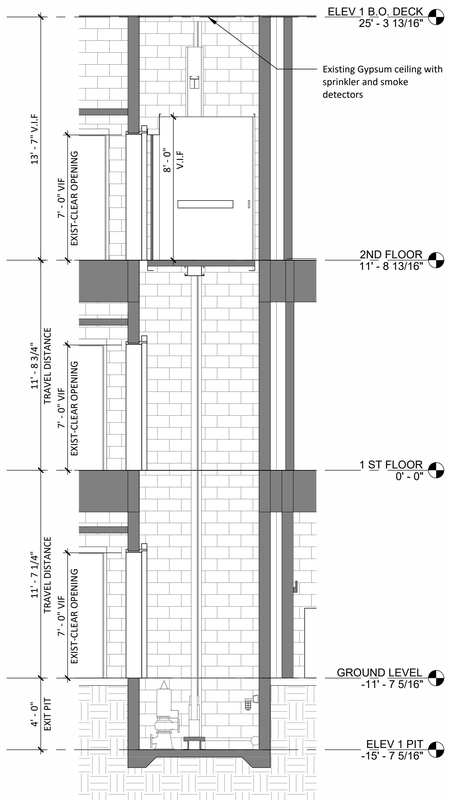
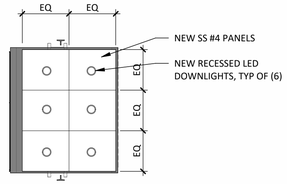


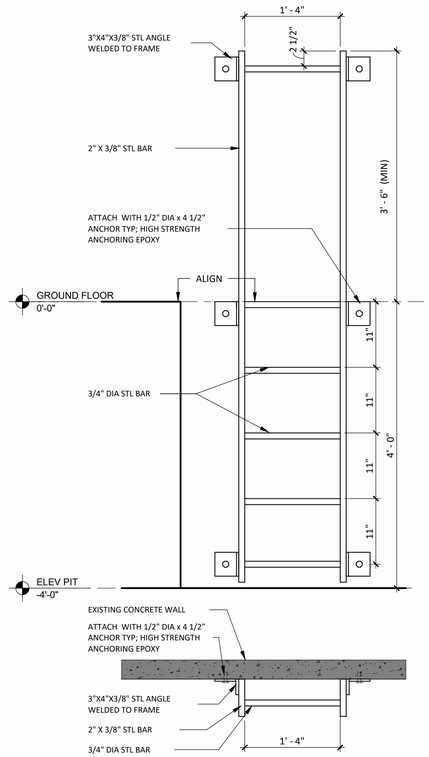
8 PROP ROOF PLAN
A103 SCALE 1" = 60'-0"



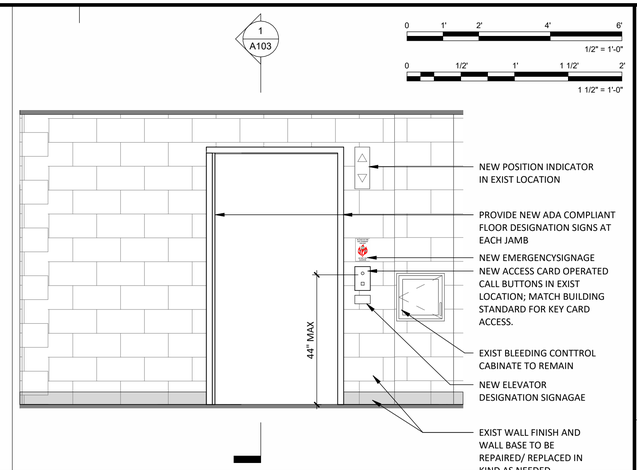
1 SECTION
A103 SCALE 1/4" = 1'-0"



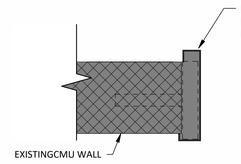
6 RCP - TYP CAB
A103 SCALE 1/4" = 1'-0"



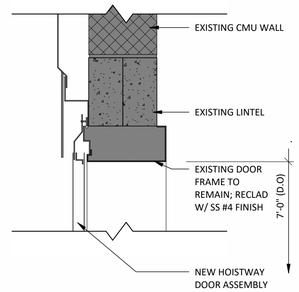
7 ELEVATOR LADDER DETAL
A103 SCALE 1" = 1'-0"



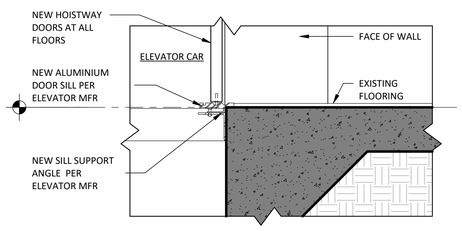
9 TYP ELEVATION
A103 SCALE 1/2" = 1'-0"



2 ELEVATOR JAMB DETAL
A103 SCALE 1 1/2" = 1'-0"



3 ELEVATOR HEAD DETAL
A103 SCALE 1 1/2" = 1'-0"



4 ELEVATOR THRESHOLD DETAL
A103 SCALE 1 1/2" = 1'-0"

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CERTIFICATION BLOCK

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License Number: 13183

Expiration Date: July 12, 2026

ALBERT EINSTEIN HIGH SCHOOL ELEVATOR MODERNIZATION

11135 Newport Mill Rd,
Kensington, MD 20895

ELEVATOR DETAILS

PROJECT NO.	24-078
DRAWN BY	MAS
REVIEWED BY	EM/AC/EH

PROJECT ISSUE DATE
PERMIT/BID SET ISSUE **02.04.2025**

REV.	ISSUE:	DATE

DRAWING STAMP
ARCHITECT 13183 EMMANUEL ATHUMANI MOSI STATE OF MARYLAND

SHEET NUMBER
A103

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GENERAL NOTES

1. THE WORK SHALL INCLUDE ALL DEMOLITION, FURNISHING AND INSTALLING ALL HEATING, AIR CONDITIONING, VENTILATION, PLUMBING, AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.
2. THE CONTRACTOR SHALL EXAMINE THE DRAWINGS, SPECIFICATIONS, AND JOB SITE AND FULLY INFORM HIMSELF OF ALL EXISTING CONDITIONS AND WORK REQUIRED BY THE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING A BID. WAIVER OF RESPONSIBILITY OR REQUEST FOR ADDITIONAL PAYMENT BASED ON LACK OF KNOWLEDGE OF CONDITIONS AT THE SITE WILL NOT BE ACCEPTED OR CONSIDERED.
3. PRIOR TO FABRICATION OF DUCTWORK, THIS CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS. IF DUCTS CANNOT BE INSTALLED AS SHOWN ON THE DRAWINGS, THIS CONTRACTOR SHALL NOTIFY THE OWNER'S ARCHITECT IMMEDIATELY. ANY EXTRA OR DEDUCT NECESSITATED BY THE ABOVE CONDITION SHALL BE SUBMITTED TO THE OWNER'S ARCHITECT IN WRITING PRIOR TO THE CONTINUATION OF THE WORK.
4. ALL THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE EDITIONS OF THE INTERNATIONAL MECHANICAL CODE, AND ALL LOCAL CODES AND REGULATIONS. WHERE ANY PORTIONS OF THE SYSTEMS SHOWN ON THE DRAWINGS IS NOT IN ACCORDANCE WITH ALL APPLICABLE LAWS, ORDINANCES, REGULATIONS OR CODES, THIS CONTRACTOR SHALL MAKE ALL CHANGES REQUIRED BY THE ENFORCING AUTHORITIES IN A MANNER APPROVED BY THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL ORDER AND OBTAIN ALL NECESSARY TESTS, PERMITS AND CERTIFICATES OF APPROVAL AND PAY ANY REQUIRED FEES FOR SAME.
6. WORK SHALL BE PROTECTED AT ALL TIMES FROM DAMAGE BY PERSONS OR WEATHER AND ALL DAMAGED WORK RESTORED TO A NEW CONDITION BEFORE FINAL ACCEPTANCE.
7. IF DURING CONSTRUCTION, ANY HAZARDOUS MATERIALS ARE ENCOUNTERED SUCH AS LEAD, ASBESTOS, ETC. THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL AUTHORIZED TO DO SO, IN WRITING, BY THE OWNER.
8. THIS CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR FOR THE EXACT LOCATION OF CHASES, FURRING SPACES, DROPPED CEILINGS, STRUCTURE PENETRATIONS, PAINTING, ETC.
9. EXAMINE ALL SERVICES, EQUIPMENT, SURFACES ETC., WHICH THIS WORK IS IN ANY WAY DEPENDENT UPON. SHOULD THE CONTRACTOR DISCOVER ANY CONDITIONS WHICH WILL PREVENT FOLLOWING GOOD PRACTICE OR RESULT IN LESS THAN A FIRST-CLASS INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE OWNER'S ARCHITECT IMMEDIATELY AND SHALL NOT PROCEED WITH HIS WORK UNTIL HE HAS RECEIVED INSTRUCTIONS FROM THE OWNER'S AGENT.
10. THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION TO BE FREE FROM DEFECTS FOR ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. ANY DEFECTS OCCURRING DURING THE GUARANTEE PERIOD SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
11. ALL EQUIPMENT REQUIRING ELECTRIC POWER SHALL BE SUITED FOR USE WITH THE POWER TO BE SUPPLIED. ALL ELECTRICAL REQUIREMENTS SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.
12. ALL EQUIPMENT SHALL BE TESTED FOR PROPER OPERATION AND CORRECTED AS NECESSARY. TEST, ADJUST AND BALANCE ALL AIR SYSTEMS TO PROVIDE AIR QUANTITIES SHOWN ON THE FLOOR PLANS AND PREPARE BALANCING REPORTS. TESTING, BALANCING AND BALANCING REPORTS SHALL BE IN ACCORDANCE WITH PROCEDURES OUTLINED BY THE AABC OR THE NEBB. TESTING & BALANCING SHALL BE PERFORMED BY A CERTIFIED BALANCING CONTRACTOR EITHER WITH AABC OR NEBB.
13. CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL COMPONENTS OF THE INSTALLATION.

SUBSCRIPTS ADJACENT TO SYMBOLS

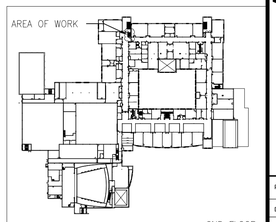
(E)	EXISTING DEVICE
(EXR)	EXISTING RELOCATED DEVICE
(XR)	EXISTING DEVICE TO BE REMOVED AND RELOCATED
(X)	EXISTING DEVICE TO BE REMOVED

HVAC SYMBOLS LIST

	EXISTING WORK
	EXISTING DUCTWORK TO BE REMOVED SINGLE LINE REPRESENTATION
	NEW DUCTWORK
	DOOR UNDERCUT
	POINT OF CONNECTION NEW TO EXISTING
	RETURN OR EXHAUST REGISTER
50	EXISTING DIFFUSER. REBALANCE FOR CFM SHOWN.

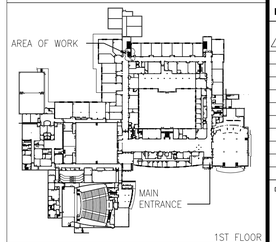
ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CD	CEILING DIFFUSER
DIA	DIAMETER
DN	DOWN
ER	EXHAUST REGISTER
EXIST.	EXISTING
F	FAN
FLR	FLOOR
IE	INVERT ELEVATION
MIN	MINIMUM
RR	RETURN REGISTER
RA	RETURN AIR
TYP	TYPICAL
UNO	UNLESS OTHERWISE NOTED
UTR	UP THRU ROOF
VD	VOLUME DAMPER



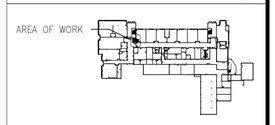
2ND FLOOR

KEY PLAN NOT TO SCALE



1ST FLOOR

KEY PLAN NOT TO SCALE



GROUND FLOOR

KEY PLAN NOT TO SCALE

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OWNER

MONTGOMERY COUNTY PUBLIC SCHOOLS

DIVISION OF CONSTRUCTION
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MECHANICAL / PLUMBING / ELECTICAL ENGINEER

CERTIFICATION BLOCK

I certify that these documents were prepared and approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland

License Number: 12404

Expiration Date: April 12, 2025

ALBERT EINSTEIN HIGH SCHOOL ELEVATOR MODERNIZATION

11135 Newport Mill Rd.
Kensington, MD 20895

SPECIFICATIONS, SYMBOLS & ABBREVIATIONS

PROJECT NO.	24081.9
DRAWN BY	A.G.
REVIEWED BY	C.A.

PROJECT ISSUE DATE
PERMIT/BID SET 02.04.2025

REV.	ISSUE:	DATE

DRAWING STAMP

STATE OF MARYLAND · JUAN ANGEL · 12404 · PROFESSIONAL ENGINEER

SHEET NUMBER

M000

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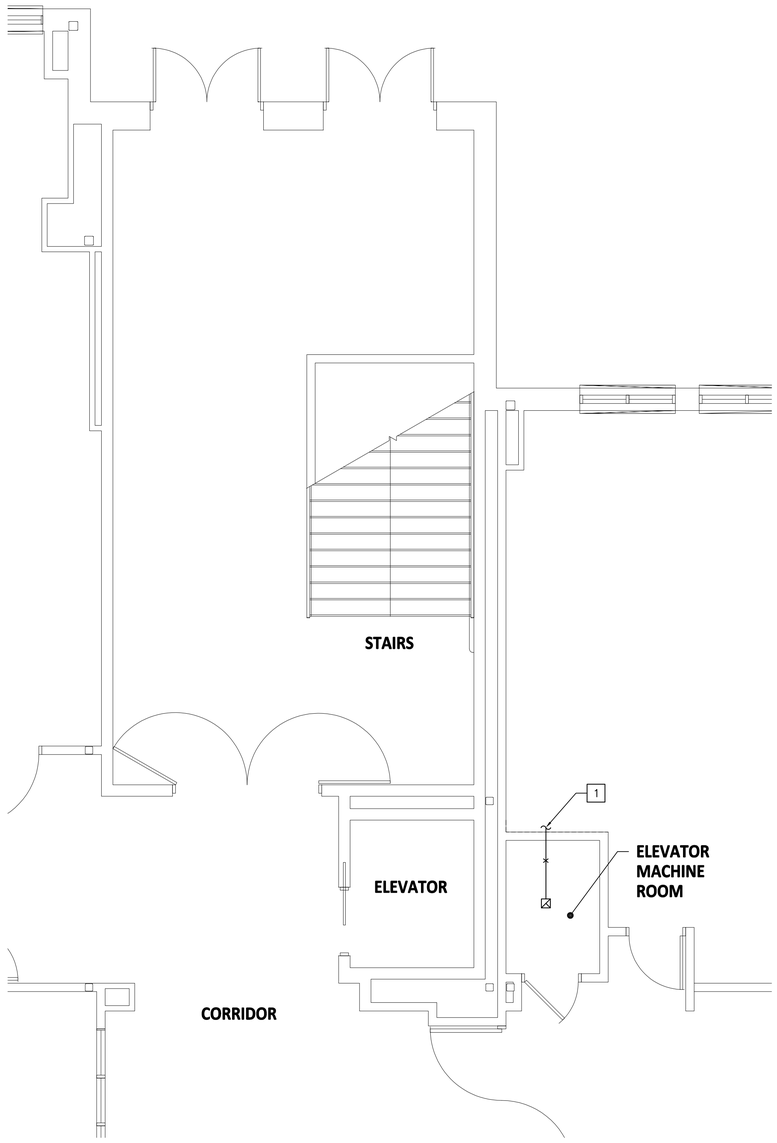
GENERAL NOTES: DEMOLITION

1. ALL WORK SHOWN ON THIS PLAN IS EXISTING AND TO REMAIN UNLESS OTHERWISE INDICATED.
2. LOCATION OF EXISTING DUCTWORK,AIR DEVICES, PIPING AND AIR HVAC EQUIPMENT WERE TAKEN FROM EXISTING DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF LOCATION, ELEVATIONS, AND SIZES DURING CONSTRUCTION.

REFERENCE NOTES: DEMOLITION

[1] REMOVE EXHAUST GRILLE AND ALL ASSOCIATED DUCTWORK BACK TO SOURCE.



PARTIAL GROUND FLOOR - DEMOLITION ELEVATOR
SCALE: 1/4"=1'-0"

GENERAL NOTES: NEW WORK

1. ALL WORK SHOWN ON THIS PLAN IS NEW UNLESS OTHERWISE INDICATED AS EXISTING.

REFERENCE NOTES: NEW WORK

(1) INSTALL REFRIGERANT PIPES ABOVE CEILING AS REQUIRED TO CONNECT TO OUTDOOR UNIT. FIELD COORDINATE EXACT ROUTING.

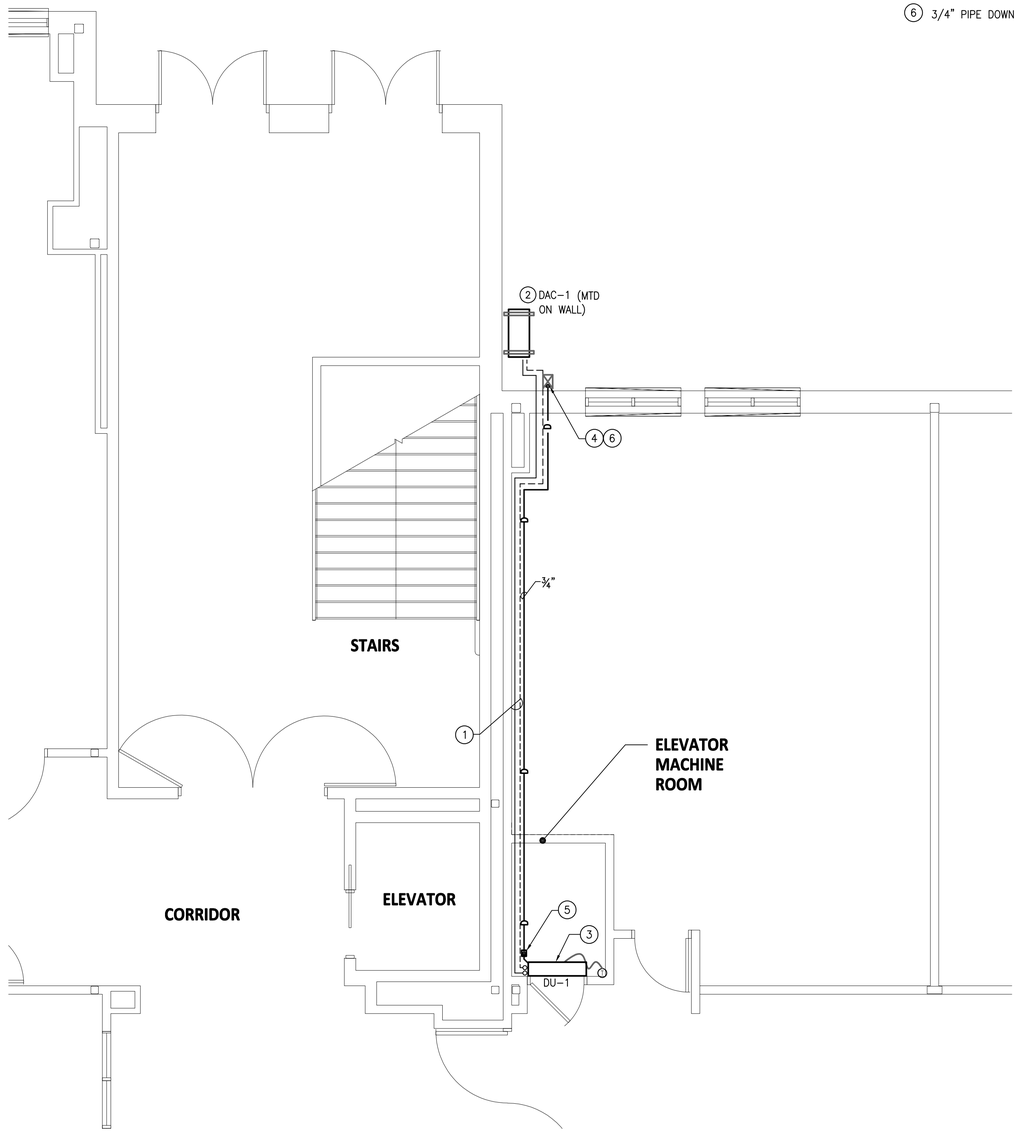
(2) OUTDOOR UNIT MOUNTED ON EXTERIOR WALL MIN. 7' AFF. PROVIDE MANUFACTURER BRACKETS AND INSTALL PER MANUFACTURER RECOMMENDATIONS. FIELD COORDINATE EXACT LOCATION.

(3) INDOOR UNIT MOUNTED ABOVE DOOR.

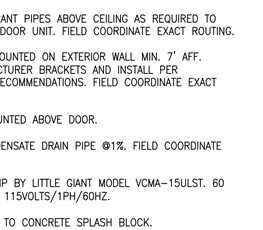
(4) EXTEND ¾" CONDENSATE DRAIN PIPE @1%. FIELD COORDINATE EXACT ROUTING.

(5) CONDENSATE PUMP BY LITTLE GIANT MODEL VCMA-15ULST. 60 WATTS MOTOR AT 115VOLTS/1PH/60HZ.

(6) 3/4" PIPE DOWN TO CONCRETE SPLASH BLOCK.



PARTIAL GROUND FLOOR - NEW WORK ELEVATOR
SCALE: 1/4"=1'-0"



KEY PLAN NOT TO SCALE

KEY PLAN NOT TO SCALE

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OWNER

MONTGOMERY COUNTY PUBLIC SCHOOLS

DIVISION OF CONSTRUCTION
45 W. GUDE DRIVE, 4 th FLOOR
ROCKVILLE, MD 20850

MECHANICAL / PLUMBING / ELECTICAL ENGINEER

CERTIFICATION BLOCK

I certify that these documents were prepared and approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland

License Number: 12404

Expiration Date: April 12, 2025

ALBERT EINSTEIN HIGH SCHOOL ELEVATOR MODERNIZATION

11135 Newport Mill Rd, Kensington, MD 20895

ELEVATOR - DEMO AND NEW WORK FLOOR PLANS

PROJECT NO.	24081.9
DRAWN BY	A.G.
REVIEWED BY	C.A.

PROJECT ISSUE DATE
PERMIT/BID SET 02.04.2025

REV.	ISSUE:	DATE

DRAWING STAMP

STATE OF MARYLAND · PRISCILLA ANGEL JULIAN · 24084 · PROFESSIONAL ENGINEER

SHEET NUMBER

M100

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE

INDOOR AIR HANDLING UNIT														OUTDOOR HEAT PUMP											
SYSTEM TYPE	TOTAL C.F.M.	ESP. (IN. WG.)	COOLING CAPACITY		HEATING CAPACITY AT 17° OUTDOORS (MBH)	ELECTRICAL CHARACTERISTICS					MFR.	MODEL NO	UNIT WEIGHT (LBS)	REMARKS	UNIT TYPE	NOM. TON.	ELECTRICAL CHARACTERISTICS							MODEL NO	MIN. SEER	UNIT WEIGHT (LBS)
			TOTAL (MBH)	SENSIBLE (MBH)		MIN. AMPS	MOTOR FLA	VOLT	PH	HZ							COMP.	FAN FLA	MCA	MAX FUSE	VOLT	PH	HZ			
DU–1	425	N.A.	18.0	16.0	13,600	1.0	0.76	120	NA	NA	MITSUBISHI	PKA–A18	30	WALL MOUNTED	DAC–1	1.5	DC INVERTER	0.5	15	20	208	1	60	PUZ–A18	21.0	100

NOTES:

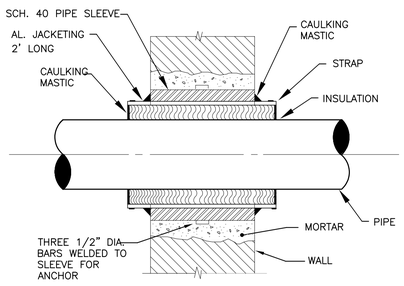
1) LOW AMBIENT CONTROLLER KIT TO 0°F
2) WALL MOUNTED THERMOSTAT
3) WALL MOUNTED SUPPORT BRACKETS.
4) REFRIGERANT: R410A
5) PROVIDE WITH CONDENSATE DRAIN REMOVAL PUMPS.
6) SINGLE POINT ELECTRICAL CONNECTION
7) INDOOR UNITS RECEIVE ELECTRICAL POWER FROM OUTDOOR UNITS THROUGH FIELD–SUPPLIED INTERCONNECTED WIRING.

PIPING INSULATION SCHEDULE

PIPE	THICKNESS	TYPE
REFRIGERANT PIPING	3/4"	FLEXIBLE CLOSED CELL ELASTOMERIC THERMAL INSULATION WITH A MAXIMUM WATER VAPOR PERMEABILITY OF 0.05 PERM–IN WITH A "k" FACTOR OF 0.245 OR LESS AT 75 F MEAN TEMPERATURE. K–FLEX NBR/PVC INSULATION LOCATED OUTDOORS SHALL BE CLADDED WITH WEATHER RESISTANCE COVERING. K–FLEX TITAN.

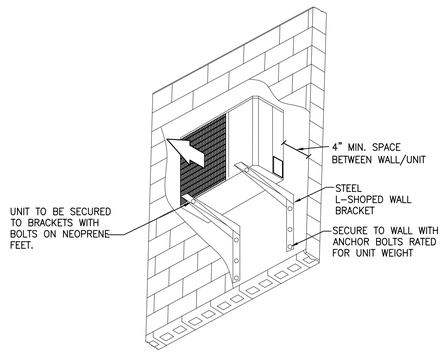
NOTES:

1. INSULATION SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50.
2. INSTALL INSULATION IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. FOR PIPING OUTDOORS INSULATION SHALL BE PROTECTED WITH A WEATHER PROTECTION JACKET AS SPECIFIED.



TYPICAL PIPE THRU EXTERIOR WALL DETAIL

NOT TO SCALE



NOTES:

1. UNIT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION.

OUTDOOR HEAT PUMP WALL MOUNTING DETAIL

NO SCALE

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SCHEDULES AND DETAILS

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STATE OF MARYLAND · JUAN ANGEL · 12404 · PROFESSIONAL ENGINEER

SHEET NUMBER

M300

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SPECIFICATIONS

1. THE WORK SHALL CONSIST OF PROVIDING THE DEMOLITION AND THE FURNISHING AND INSTALLING OF ALL PLUMBING SYSTEMS, ALL FIRE PROTECTION SYSTEMS AND EQUIPMENT AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. PROVIDE ALL LABOR, PIPING SYSTEMS, DEVICES, EQUIPMENT, CONTROLS, CONNECTIONS TO EXISTING SERVICES, SUPPORTS, HARDWARE ETC. REQUIRED FOR THE SATISFACTORY INSTALLATION AND OPERATION OF THE SYSTEMS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL WORK AND MATERIALS TO ACCOMPLISH THE INTENT OF THE PLANS. PLANS INDICATE THE EXTENT, GENERAL CHARACTER AND LOCATION OF WORK DIAGRAMMATICALLY ONLY. WORK INDICATED BY HAVING MINOR DETAILS NOT SHOWN, SHALL BE FURNISHED THE WORK SHALL INCLUDE ALL DEMOLITION, FURNISHING AND INSTALLING ALL PLUMBING SYSTEMS, FIRE PROTECTION SYSTEM AND EQUIPMENT AS SHOWN ON THE PLAN AND AS SPECIFIED HEREIN.

2. THIS CONTRACTOR SHALL EXAMINE THE DRAWINGS, SPECIFICATIONS AND JOB SITE AND FULLY INFORM HIMSELF OF ALL EXISTING CONDITIONS AND WORK REQUIRED BY THE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING A BID. WAIVER OF RESPONSIBILITY OR REQUEST FOR ADDITIONAL PAYMENT BASED ON LACK OF KNOWLEDGE OF CONDITIONS AT THE SITE WILL NOT BE ACCEPTED OR CONSIDERED.

3. WORK SHALL BE PROTECTED AT ALL TIMES FROM DAMAGE BY PERSONS OR WEATHER AND ALL DAMAGED WORK RESTORED TO A NEW CONDITION BEFORE FINAL ACCEPTANCE.

4. ALL THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE EDITIONS OF THE WSSC, NFPA, CODE AND ALL LOCAL CODES AND REGULATIONS. WHERE ANY PORTIONS OF THE SYSTEMS SHOWN ON THE DRAWINGS IS NOT IN ACCORDANCE WITH ALL APPLICABLE LAWS, ORDINANCES, REGULATIONS OR CODES, THIS CONTRACTOR SHALL MAKE ALL CHANGES REQUIRED BY THE ENFORCING AUTHORITIES IN A MANNER APPROVED BY THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

5. THIS CONTRACTOR SHALL ORDER AND OBTAIN ALL NECESSARY TESTS, PERMITS AND CERTIFICATES OF APPROVAL AND PAY ANY REQUIRED FEES FOR SAME.

6. ALL EQUIPMENT, FIXTURES AND MATERIALS SHALL BE NEW AND SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

7. IF DURING CONSTRUCTION, ANY HAZARDOUS MATERIALS ARE ENCOUNTERED SUCH AS LEAD, ASBESTOS, ETC. THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL AUTHORIZED TO DO SO, IN WRITING, BY THE OWNER.

8. THIS CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR FOR THE EXACT LOCATION OF CHASES, FURRING SPACES, DROPPED CEILINGS, STRUCTURE PENETRATIONS, PAINTING, ETC.

9. EXAMINE ALL SERVICES, EQUIPMENT, SURFACES ETC., WHICH THIS WORK IS IN ANY WAY DEPENDENT UPON. SHOULD THE CONTRACTOR DISCOVER ANY CONDITIONS WHICH WILL PREVENT FOLLOWING GOOD PRACTICE OR RESULT IN LESS THAN A FIRST–CLASS INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENTITECT IMMEDIATELY AND SHALL NOT PROCEED WITH HIS WORK UNTIL HE HAS RECEIVED INSTRUCTIONS FROM THE OWNER'S AGENT.

10. THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION TO BE FREE FROM DEFECTS FOR ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. ANY DEFECTS OCCURRING DURING THE GUARANTEE PERIOD SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.

11. ALL EQUIPMENT REQUIRING ELECTRIC POWER SHALL BE SUITED FOR USE WITH THE POWER TO BE SUPPLIED. ALL ELECTRICAL REQUIREMENTS SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.

12. CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL COMPONENTS OF THE INSTALLATION.

13. EXISTING SEWER PIPE LOCATION IS SHOWN ON THE FLOOR PLAN FOR DRAFTING PURPOSES ONLY. THIS CONTRACTOR SHALL VERIFY THE INVERT ELEVATIONS AND EXACT LOCATION OF EXISTING SEWER PIPING AND ALL PIPE SIZES ON THE JOB SITE PRIOR TO STARTING CONSTRUCTION. IF UTILITIES CANNOT BE CONNECTED AS SHOWN ON THE PLANS, THIS CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY AND BEFORE PROCEEDING WITH THE WORK. ANY EXTRA OR DEDUCT NECESSITATED BY THE ABOVE CONDITION SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING, PRIOR TO THE COMMENCEMENT OF WORK.

14. PROTECTION OF EXISTING WORK: EXISTING WORK TO REMAIN AND EXISTING WORK TO BE RELOCATED SHALL BE PROTECTED FROM DAMAGE. WORK DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. COVER EQUIPMENT AS NECESSARY TO PROTECT IS FROM DUST AND DEBRIS. FLOORS TO REMAIN SHALL BE COVERED TO PROTECT THEM FROM DAMAGE. AT THE END OF EACH WORKING DAY AND DURING INCLEMENT WEATHER, CLOSE EXTERIOR OPENINGS WITH WEATHER PROOF COVERS.

   A. CLEAN UP: REMOVE DEBRIS AND RUBBISH FROM THE SITE AT THE END OF EACH WORKING DAY.

   B. IF DURING CONSTRUCTION, ANY HAZARDOUS MATERIALS ARE ENCOUNTERED SUCH AS LEAD, ASBESTOS ETC. THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL AUTHORIZED TO DO SO, IN WRITING, BY THE OWNER.

15. EXCAVATION AND BACKFILL ARE PART OF THIS CONTRACT AND SHALL CONFORM TO THE SECTION OF EXCAVATION AND BACKFILL IN DIVISION 1 & 2 AND ANY APPLICABLE CODES.

15. PROVIDE PIPING IDENTIFICATION FOR PLUMBING PIPING AS MANUFACTURED BY BRADY B–500 PERMA CODE TAPE OR SETON SNAP AROUND. ALL PIPING LABELING (TEXT AND ARROWS) SHALL BE LEGIBLE FROM THE FLOOR LEVEL.

16. INSTALL AND TEST PIPING, TUBE AND FITTINGS IN ACCORDANCE WITH LOCAL CODES AND INDUSTRY PRACTICE IN SUCH A MANNER THAT IT WILL ACHIEVE PERMANENTLY LEAKPROOF PIPING SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE WITHOUT PIPING FAILURE. REPAIR PIPING SECTIONS WHICH FAIL TEST BY DISASSEMBLY AND RE–INSTALLATION. UNDER NO CIRCUMSTANCES USE CHEMICALS, STOP–LEAK COMPOUNDS, MASTICS, TAPES OR OTHER TEMPORARY REPAIR METHODS.

   A. PUMP DISCHARGE PIPING SHALL BE DWV COPPER WITH WROUGHT COPPER FITTINGS, ASTM B306 OR TO MATCH EXISTING

17. QUALITY ASSURANCE

17.1. MANUFACTURER'S QUALIFICATIONS: FIRMS REGULARLY ENGAGED IN THE MANUFACTURE OF MECHANICAL EQUIPMENT, OF TYPES AND CAPACITIES REQUIRED, WHOSE PRODUCTS HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR NOT LESS THAN 5 YEARS.

17.2. INSTALLER'S QUALIFICATIONS: FIRMS WITH AT LEAST 5 YEARS OF SUCCESSFUL INSTALLATION EXPERIENCE WITH PROJECTS UTILIZING MECHANICAL SYSTEMS SIMILAR TO THOSE REQUIRED FOR THIS PROJECT.

17.3. ANY EQUIPMENT WHICH CONTAINS MECHANICAL/ELECTRICAL/ELECTRONIC COMPONENTS SHALL BE INSTALLED AND ADJUSTED BY FACTORY CERTIFIED PERSONNEL.

17.4. ANY ADJUSTMENTS TO EQUIPMENT SHALL BE PERFORMED BY FACTORY AUTHORIZED, FACTORY CERTIFIED TECHNICIANS.

17.4.1. THE CONTRACTOR SHALL REPLACE AT NO COST TO THE OWNER, ANY WARRANTY WHICH IS VOIDED BY THE MANUFACTURER DUE TO THE USE OF UNQUALIFIED PERSONNEL.

17.5. AFTER INSTALLATION, EQUIPMENT SHALL BE TESTED AND ADJUSTED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS/INSTRUCTIONS

18. FIRE SUPPRESSION:

   A. DRAIN EXISTING FIRE SUPPRESSION SYSTEM AND RE–ARRANGE THE EXISTING PIPING AND HEADS AS REQUIRED INSTALL NEW PUMP. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA–13, AND THE FIRE MARSHALL'S REQUIREMENTS. ALL EQUIPMENT SHALL BE UL AND FM APPROVED.

19. EQUIPMENT LIST

ELEVATOR SUMP PUMP

   A. PUMP AND OIL CONTROL SYSTEM SHALL CONSIST OF SUBMERSIBLE PUMP(S), CONTROL PANEL, FLOAT SWITCHES, SENSORS ETC. CONTROL UNIT, PUMP, FLOATS AND SENSOR PROBE SHALL BE FACTORY ASSEMBLED AS A COMPLETE, READY TO USE SYSTEM AND SHALL BE TESTED, APPROVED AND LABELED, FOR THE INTENDED PURPOSE AS A SYSTEM.

   B. THE PUMPING SYSTEM SHALL BE CAPABLE OF PUMPING WATER WHILE KEEPNG OIL CONTAINED WITH PUMP AND OIL SENSOR TECHNOLOGY CONTROL SYSTEM COMPLYING WITH ASME 17.1 STANDARDS. SYSTEM SHALL FUNCTION AUTOMATICALLY WITH A LOCAL AUDIBLE ALARM WITH SILENCE SWITCH AND LED INDICATOR LIGHTS FOR EACH OF THE FOLLOWING EVENTS A) THE PRESENCE OF OIL IN THE SUMP WHEN THE PUMP IS SIGNALED TO RUN, B) HIGH LIQUID IN THE SUMP, C) HIGH AMPS OR A LOCKED ROTOR MOTOR CONDITION, D) ELECTRICAL POWER TO THE PANEL AND E) PUMP ACTIVATION. PROVIDE DRY CONTACTS FOR REMOTE MONITORING OF OIL DETECTED, HIGH WATER ALARM, AND HIGH AMPERAGE/MOTOR OVERLOAD ALERT. MINIMUM 10 YEARS OF PROVEN RELIABILITY.

   C. THE SOLID STATE OIL–MINDER® CONTROL SYSTEM SHALL BE APPROVED BY UL508 STANDARDS AND HOUSED IN A GASKETED NEMA 4X ENCLOSURE WITH AN 8–PIN TWIST–LOCK WATERPROOF ELECTRICAL RECEPTACLES. CONTROL PANEL WITH A FIELD ADJUSTABLE SWITCH, WITH VARIABLE SENSITIVITY SETTINGS, FOR SENSING AND ALARMING FOR EMULSIFIED OR SOLID OIL. SEPARATE OVER–CURRENT RELAY AND FIELD ADJUSTABLE MOTOR OVERLOAD HEATER WITH AN OPTIONAL AUTOMATIC OR MANUAL RESET BUTTON. THE FACTORY INSTALLED OIL SENSOR PROBE DETECTION SYSTEM MUST BE HERMETICALLY SEALED, HEAVY DUTY, STAINLESS STEEL WITH LOW VOLTAGE SELF–CLEANING TECHNOLOGY. OIL SENSING SYSTEMS USING OPTICAL LENSES, OR STANDARD STAINLESS STEEL PROBES, SUBJECT TO DIRT CONTAMINATION AND FALSE ALARMS ARE NOT CONSIDERED EQUAL. THE PUMP CONTROL FLOAT AND OIL SENSING PROBE ARE TO BE FACTORY MOUNTED ON THE PUMP AND FACTORY TESTED. THE BOTTOM OF THE SENSOR PROBE SHALL BE NO HIGHER THAN 2" FROM THE BASE OF THE SUMP. HIGH DECIBEL WARNING HORN WITH ILLUMINATED RED LIGHT COMPLETE WITH ALARM SILENCING SWITCH.

   D. THE CONTROL PANEL SHALL HAVE A TESTING SWITCH WHICH, WHEN DEPRESSED FOR 5 SECONDS, WILL SEQUENCE THROUGH ALL FUNCTIONS OF THE SYSTEM INCLUDING OIL ALERT, HIGH WATER ALERT, POWER TO THE SYSTEM AND PUMP RUN. A SYSTEM THAT REQUIRES PERSONNEL TO ENTER THE ELEVATOR PIT TO PERFORM PERIODIC TEST FUNCTIONS WILL NOT BE ACCEPTED.

   E. STANCOR ƒOM–300 PROBE STYLE FLOAT SWITCHES FOR PUMP ACTIVATION AND HIGH WATER ALARM, WITH THE HIGH WATER ALARM FLOAT ALSO ACTING AS A REDUNDANT PUMP RUN (ON) FLOAT IN THE EVENT OF THE PRIMARY PUMP RUN FLOAT BEING INCAPACITATED. A SYSTEM NOT HAVING A REDUNDANT ACTIVATION SWITCH WILL NOT BE ACCEPTED.

   F. PROVIDE A NEMA 4XX JUNCTION BOX WITH A SERVICE DISCONNECT SWITCH WHICH WILL BE FACTORY PRE–WIRED TO THE PUMP, OIL PROBE AND FLOAT SWITCHES. JUNCTION BOX SHALL HAVE 8–PIN TWIST–LOCK ELECTRICAL RECEPTACLES AND 8–PIN CONNECTOR CABLES FROM THE JUNCTION BOX ROUTED TO THE CONTROL PANEL.

   G. THE SUMP PUMP SHALL BE HEAVY DUTY SUBMERSIBLE TYPE WITH THERMAL AND OVERLOAD PROTECTION. UL LISTED (UL 778) FOR OPERATING CONTINUOUSLY OR INTERMITTENTLY. 304 SS MOTOR HOUSING AND FASTENING BOLTS WITH MECHANICAL SEALS HOUSED IN A SEPARATE OIL–FILLED COMPARTMENT; DESIGNED FOR FLOOR MOUNTING COMPLETE WITH SUPPORT LEGS. THE SUMP PUMP SHALL BE INSTALLED IN A 24" X 24" X 24" DEEP PIT WITHIN THE ELEVATOR SHAFT.

CAPACITY: 50 GPM 25 FT HEAD
ELECTRICAL CHARACTERISTICS: 1.0 H.P., 208–1–60. MODEL STANCOR SE–100

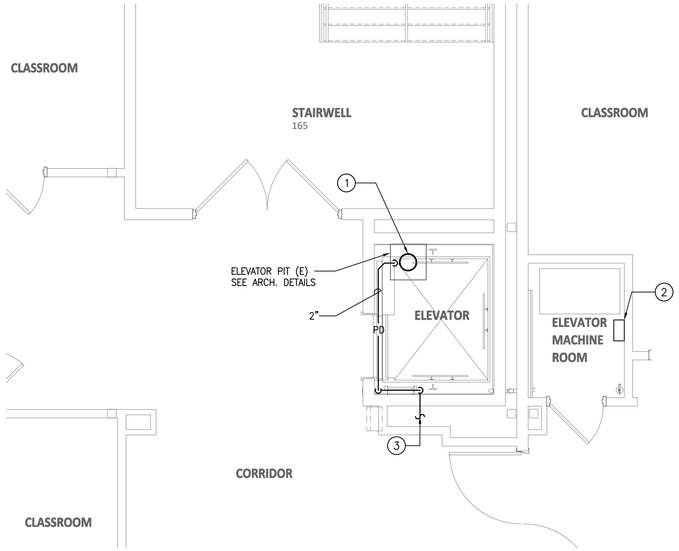
SYMBOLS & ABBREVIATIONS

PD PD — PUMPED DISCHARGE

→ PIPE DROP

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
CLG	CEILING
CO	CLEAN OUT
DN	RISER DOWN
FBO	FURNISHED BY OTHERS.
FFE	FINISHED FLOOR ELEVATION
GPM	GALLONS PER MINUTE
GC	GENERAL CONTRACTOR
IW	INDIRECT WASTE
IE	INVERT ELEVATION
MIN	MINIMUM
NIC	NOT IN CONTRACT
PC	PLUMBING CONTRACTOR
TYP	TYPICAL
UP	RISER UP



GROUND FLOOR PART PLAN – DEMOLITION & NEW WORK

SCALE: 1/4"=1'–0"

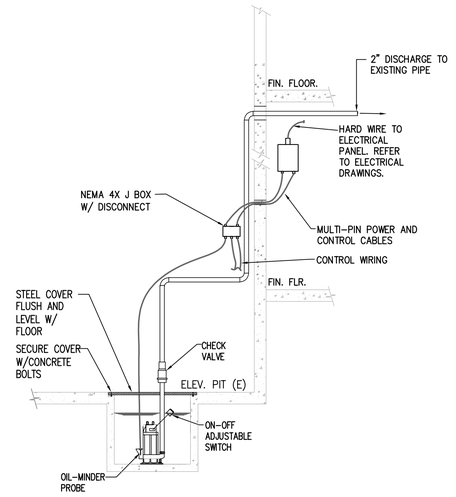
GENERAL NOTES:

A. ALL WORK SHOWN ON THIS PLAN IS NEW UNLESS OTHERWISE NOTED.

B. LOCATION OF EXISTING DISCHARGE PIPING SHALL BE FIELD VERIFIED PRIOR TO COMMENCING ANY NEW WORK

REFERENCE NOTES: (#)

1. REMOVE EXISTING SUMP PUMP AND ASSOCIATED PIPING. PROVIDE NEW SUMP PUMP. COORDINATE WITH ARCHITECTURAL PLAN FOR EXACT LOCATION.
2. SUMP PUMP CONTROL PANEL.
3. CONNECT NEW DISCHARGE TO EXISTING PIPE ABOVE CEILING. FIELD VERIFY EXACT SIZE AND LOCATION.



ELEVATOR SUMP PUMP – DETAIL

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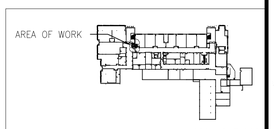

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ELECTRICAL GENERAL NOTES

GENERAL

1. THE SCOPE OF WORK CONSISTS OF THE DEMOLITION, FURNISHING AND INSTALLATION OF ELECTRICAL AND FIRE ALARM SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. THIS CONTRACTOR SHALL PROVIDE ALL SUPERVISION, LABOR, MATERIALS, EQUIPMENT, MACHINERY, AND ALL OTHER ITEMS NECESSARY TO COMPLETE THE SYSTEM. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT AS INDICATED ON THE DRAWINGS AND/OR AS REQUIRED FOR A FUNCTIONING ELECTRICAL SYSTEM.
2. ANY DISCREPANCIES ON THE PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION, IN WRITING, BEFORE SUBMITTING THE BID.
3. ELECTRICAL PLANS ARE DIAGRAMMATIC. ALL WIRING AND RACEWAYS SHALL BE INSTALLED CONCEALED ABOVE CEILINGS AND INSIDE WALLS.
4. THE FOLLOWING TERMINOLOGY AND MEANINGS WILL BE USED IN THESE SPECIFICATIONS:
   A. PANELBOARDS "EQUIPPED SPACE" OR "SPACE": INCLUDE ALL NECESSARY BUS, DEVICE SUPPORTS AND CONNECTIONS FOR INSERTION OF A FUTURE DEVICE.
   B. "PROVIDE": FURNISH AND INSTALL.
   C. "THIS CONTRACTOR": THE ELECTRICAL CONTRACTOR.
5. THIS CONTRACTOR SHALL EXAMINE THE DRAWINGS, SPECIFICATIONS AND VISIT THE JOB SITE AND FULLY INFORM HIMSELF OF ALL EXISTING CONDITIONS AND WORK REQUIRED BY THE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. WAIVER OF RESPONSIBILITY OR REQUEST FOR ADDITIONAL PAYMENT BASED ON LACK OF KNOWLEDGE OF CONDITIONS AT THE SITE WILL NOT BE ACCEPTED OR CONSIDERED. ANY DIFFICULTIES IN COMPLYING WITH THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER, IN WRITING, BEFORE SUBMITTING THE BID.
6. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE APPLICABLE EDITIONS OF THE NATIONAL ELECTRICAL CODE, NFPA 70, LOCAL JURISDICTION REQUIREMENTS AND LOCAL STATE CODE REQUIREMENTS.
7. THIS CONTRACTOR SHALL ORDER AND OBTAIN ALL NECESSARY ELECTRICAL TESTS, PERMITS AND CERTIFICATES OF APPROVAL AND PAY ANY REQUIRED FEES FOR SAME.
8. THIS CONTRACTOR SHALL VERIFY AVAILABLE VOLTAGE PRIOR TO ORDERING ANY EQUIPMENT OR FIXTURES. ANY EQUIPMENT OR FIXTURES SHALL BE COMPATIBLE WITH AVAILABLE VOLTAGE.
9. SHOP DRAWINGS FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, DEVICES AND MATERIALS SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR APPROVAL BEFORE DELIVERY TO THE JOB SITE. EQUIPMENT, FIXTURES, AND MATERIAL DELIVERED TO THE JOB SITE OR INSTALLED PRIOR TO APPROVAL OF THE SHOP DRAWINGS AND FOR WHICH THE SHOP DRAWINGS ARE SUBSEQUENTLY REJECTED, SHALL BE REPLACED WITH AN APPROVED ITEM AT NO ADDITIONAL COST TO THE OWNER. PROVIDE 6 COPIES FOR THE FOLLOWING ITEMS:
   A. LIGHTING FIXTURES AND SWITCHES INCLUDING BALLASTS, LAMPS, REFLECTORS ETC.
   B. RECEPTACLES
   C. PANELBOARDS
   D. FIRE ALARM DEVICES AND SHOP DRAWINGS
10. UNLESS OTHERWISE NOTED, ALL EQUIPMENT, CIRCUITRY, DEVICES, MATERIALS ETC. SHALL BE NEW AND SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
11. ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL.
12. ALL EQUIPMENT SUCH AS PANELBOARDS, TRANSFORMERS, STARTERS AND DISCONNECT SWITCHES SHALL BE AS MANUFACTURED BY EATON/CUTLER-HAMMER, GENERAL ELECTRIC, SQUARE-D, OR SIEMENS.
13. WORK SHALL BE PROTECTED AT ALL TIMES FROM DAMAGE BY PERSONS OR WEATHER AND ALL DAMAGED WORK RESTORED TO A NEW CONDITION BEFORE FINAL ACCEPTANCE.
14. ALL PENETRATIONS OF FLOOR AND WALLS SHALL BE SEALED WITH UL LISTED PUTTY TYPE SEALING COMPOUND IN ACCORDANCE WITH BOCA, NEC AND NFPA.
15. ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS, MONDAY THROUGH FRIDAY CONFIRM WITH OWNER. IF WORK CANNOT BE PERFORMED DURING NORMAL WORKING HOURS THE OWNER SHALL BE NOTIFIED PRIOR TO THE SIGNING OF THE CONTRACT.
16. THIS CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR OR THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING THE WORK AND FOR DISCONNECTION AND RECONNECTION OF ANY UTILITIES THAT MAY HAVE TO BE DISCONNECTED FOR THE COMPLETION OF THE PROJECT. ADVANCE NOTICE SHALL BE GIVEN TO THE OWNER BEFORE COMMENCEMENT OF WORK, WHETHER OR NOT AN OUTAGE IS REQUIRED.
17. THIS CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR FOR THE EXACT LOCATION OF CHASES, FURRING SPACES, DROPPED CEILINGS, STRUCTURE PENETRATIONS, PAINTING, ETC.
   A. CONSULT ARCHITECTURAL PLANS AND DETAILS FOR CONSTRUCTION TYPE, HEADROOM, ROOM FINISHES, TYPE OF CEILING, FLOORS ETC.
18. ALL HVAC/PLUMBING EQUIPMENT INDICATED ON THE DRAWINGS SHALL BE CONNECTED UNDER THIS CONTRACT. ELECTRICAL EQUIPMENT REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. THIS CONTRACTOR SHALL COORDINATE ALL SUCH EQUIPMENT POWER REQUIREMENTS AND LOCATIONS WITH THE HVAC/PLUMBING CONTRACTORS PRIOR TO ROUGHING IN ANY DISCONNECT SWITCHES, WIRING, FEEDERS, BREAKERS, ETC. NECESSARY FOR EQUIPMENT INSTALLATION.
19. THIS CONTRACTOR SHALL COORDINATE ALL MOUNTING HEIGHTS FOR SWITCHES, RECEPTACLES, CEILING MOUNTED LIGHTING FIXTURES AND TELEPHONE OUTLETS BY THE USE OF THE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS. SHOULD ANY CONFLICTS BECOME APPARENT, THIS CONTRACTOR SHALL REQUEST CLARIFICATION PRIOR TO INSTALLATION. IF THE WORK IS NOT COORDINATED ANY REMEDIAL WORK SHALL BE REDONE AT NO ADDITIONAL COST TO THE OWNER.
20. FINAL TESTING: AT THE TIME OF FINAL INSPECTION AND TEST, ALL CONNECTIONS AT PANELBOARDS, DEVICES AND EQUIPMENT, AND ALL SPLICES MUST BE COMPLETED. EACH BRANCH CIRCUIT AND ITS RESPECTIVE CONNECTED EQUIPMENT MUST TEST FREE OF SHORT CIRCUITS. UPON COMPLETION OF THE WORK, CLEAN AND POLISH ALL EXPOSED SURFACES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
21. THIS CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION TO BE FREE FROM DEFECTS FOR TWO YEARS FROM THE DATE OF ACCEPTANCE BY THE OWNER. ANY DEFECTS OCCURRING DURING THE GUARANTEE PERIOD SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
22. THIS CONTRACTOR SHALL MAINTAIN ACCURATE RECORD DRAWINGS OF ALL WORK AS ACTUALLY INSTALLED. ON COMPLETION OF THE PROJECT THE FOLLOWING MATERIAL SHALL BE DELIVERED TO THE OWNER:
   A. TWO (2) COMPLETE SETS OF REPRODUCIBLE DRAWINGS SHALL BE DELIVERED TO THE OWNER AND ONE (1) SET OF DRAWING TO THE A/E FIRM.
   B. ALL NEW INSTALLED EQUIPMENT MANUFACTURER'S DATA AND WARRANTY LITERATURE.

DEMOLITION

1. GENERAL: DIVISION I OF THE ARCHITECTURAL SPECIFICATIONS SHALL GOVERN THE SEQUENCE OF CONSTRUCTION.
2. PROCEDURES: THE PROCEDURES PROPOSED FOR THE ACCOMPLISHMENT OF SALVAGE AND DEMOLITION WORK SHALL BE SUBMITTED FOR APPROVAL. THE PROCEDURES SHALL PROVIDE FOR SAFE CONDUCT OF THE WORK, CAREFUL REMOVAL AND DISPOSITION OF MATERIALS SPECIFIED TO BE SALVAGED, PROTECTION OF PROPERTY WHICH IS TO REMAIN UNDISTURBED, COORDINATION WITH OTHER WORK IN PROGRESS, AND TIMELY DISCONNECTION OF UTILITY SERVICES, FIRE ALARM SYSTEMS, ELEVATORS, ETC. THE PROCEDURES SHALL INCLUDE A DETAILED DESCRIPTION OF THE METHODS AND EQUIPMENT TO BE USED FOR EACH OPERATION AND THE SEQUENCE OF OPERATION.
3. PROTECTION OF EXISTING WORK: EXISTING WORK TO REMAIN AND EXISTING WORK TO BE RELOCATED SHALL BE PROTECTED FROM DAMAGE. WORK DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. COVER EQUIPMENT AS NECESSARY TO PROTECT IS FROM DUST AND DEBRIS. FLOORS TO REMAIN SHALL BE COVERED TO PROTECT THEM FROM DAMAGE. AT THE END OF EACH WORKING DAY AND DURING INCLEMENT WEATHER, CLOSE EXTERIOR OPENINGS WITH WEATHER-PROOF COVERS.
4. TITLE TO EQUIPMENT TO BE RELOCATED IS VESTED IN THE OWNER UPON RECEIPT OF NOTICE TO PROCEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION, LOSS OR DAMAGE TO SUCH PROPERTY AFTER NOTICE TO PROCEED. EQUIPMENT REMOVED SHALL BE TURNED OVER TO THE OWNER AT A DESIGNATED POINT WITHIN THE PREMISES.
5. AFTER REMOVAL OF ALL DEVICES THIS CONTRACTOR SHALL TURN ALL DEVICES OVER TO OWNER'S REPRESENTATIVE FOR HIM TO INSPECT. AFTER INSPECTED BY THE OWNER'S REPRESENTATIVE THIS CONTRACTOR SHALL REMOVE ALL UNNECESSARY DEVICES OR MATERIALS FROM THE SITE.
6. DISPOSITIONS OF MATERIALS: DISPOSE OF EQUIPMENT AND MATERIALS TO BE DEMOLISHED IN A SAFE MANNER AND IN ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS.
7. THIS CONTRACTOR SHALL CLEAN THE PROJECT SITE AND REMOVE DEBRIS AND RUBBISH AT THE END OF EACH WORKING DAY.
8. IF DURING CONSTRUCTION, ANY HAZARDOUS MATERIALS ARE ENCOUNTERED SUCH AS LEAD, ASBESTOS ETC. THE CONTRACTOR SHALL STOP WORK AND NOTIFY THE OWNER IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL AUTHORIZED TO DO SO, IN WRITING, BY THE OWNER.
9. PROVIDE BLANK COVER PLATES ON ALL EXISTING OUTLETS NOT REUSED. COVER PLATES TO MATCH PROJECT SPECIFICATIONS.
10. PRIOR TO STARTING THE WORK, THIS CONTRACTOR SHALL PERFORM A CIRCUIT TRACING TO TEST THE EXISTING WORK TO REMAIN (OUTLETS, LIGHTING, LIGHT SWITCHES WIRING ETC.) FOR PROPER VOLTAGE, OPERATION AND BRANCH CIRCUIT ORIGINATION. A WRITTEN REPORT SHALL BE PREPARED INDICATING ANY DEFICIENCIES AND RECOMMENDED REPAIRS. SUBMIT FOUR (4) COPIES OF THIS REPORT TO THE ARCHITECT/OWNER FOR REVIEW. NO ADDITIONAL CHARGES WILL BE CONSIDERED AFTER COMPLETION OF THE WORK, TO REPAIR/CONNECT EXISTING OUTLETS UNLESS THESE WERE DESCRIBED IN THE REPORT ABOVE. ANY EXISTING DEVICES DISCONNECTED DURING CONSTRUCTION SHALL BE RE-CONNECTED AT NO ADDITIONAL COST TO THE OWNER.
11. THE CONTINUITY OF ALL EXISTING CIRCUITS WHICH ARE TO REMAIN OPERATIONAL SHALL BE MAINTAINED THROUGHOUT THE FACILITY. THIS CONTRACTOR SHALL IDENTIFY ALL CIRCUITS THAT SUPPLY POWER TO AREAS TO REMAIN, LABEL THESE CIRCUITS AND MAKE SURE THEIR POWER IS NOT INTERRUPTED DURING DEMOLITION AND CONSTRUCTION. ALL EXISTING CIRCUITS TO REMAIN SHALL BE RECONNECTED TO NEW OR EXISTING PANELS.
12. CONTRACTOR SHALL REMOVE ALL POWER, COMMUNICATIONS WIRING AND CONDUIT FROM LUMINAIRES, RECEPTACLES, TELEPHONE, DATA, CCTV AND CABLE TV OUTLETS TO BE REMOVED UNDER THE DEMOLITION PHASE. ALL WIRING AND CONDUIT SHALL BE REMOVED BACK TO SOURCE.
13. EXISTING FIRE ALARM AND FIRE PROTECTION SYSTEMS SHALL BE MAINTAINED IN SERVICE DURING DEMOLITION AND NEW CONSTRUCTION.
14. THIS CONTRACTOR SHALL RESTORE ALL AREAS, SYSTEMS AND ASSOCIATED DEVICES, COMPONENTS, ETC., DISTURBED BY HIS WORK TO THE SATISFACTION OF THE OWNER, ARCHITECTS, AND ENGINEER.

LABELING

1. PROVIDE LABELING FOR ALL FEEDER RACEWAYS, ELECTRICAL PANELS, AND ALL MAJOR PIECES OF EQUIPMENT AS FOLLOWS:
   A. ALL RECEPTACLE PLATE COVERS SHALL BE LABELED WITH PANEL DESIGNATION AND CIRCUIT NUMBER.
   B. ALL FEEDER RACEWAYS SHALL BE LABELED AS TO ITEM SERVED WITH MINIMUM 1/4" HIGH LETTERS.
   C. ALL JUNCTION BOXES FOR BRANCH CIRCUITRY SHALL BE LABELED WITH PANEL DESIGNATION AND CIRCUIT NUMBERS WITH MINIMUM 1/4" HIGH LETTERS.
   D. ALL STARTERS AND DISCONNECTS SHALL BE LABELED WITH 1/4" ENGRAVED WHITE LETTERS BLACK LAMACOID BACKGROUND NAME PLATES. NAME PLATE SHALL BE LABELED "F – NO." OR "AHU – NO." ETC.

PANELBOARDS

1. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY SPACING THE CIRCUITS IN THE PANEL AND BALANCE THE LOAD ON THE PHASES UNDER NORMAL OPERATING CONDITIONS.
2. BEFORE ORDERING PANELBOARDS, COORDINATE ALL MOTOR CIRCUIT BREAKER TRIPS WITH MECHANICAL EQUIPMENT MANUFACTURER'S REQUIREMENTS. COORDINATE CONDUCTOR SIZE WITH ACTUAL MOTORS AND OTHER MECHANICAL AND ARCHITECTURAL EQUIPMENT FURNISHED BEFORE INSTALLING CIRCUITRY.
3. ALL PANELBOARDS SHALL HAVE COMMON KEYED LOCKS. PROVIDE A MINIMUM OF TWO KEYS PER PANEL. PANELBOARDS SHALL BE COMPLETE WITH COVER AND TRIM AND SHALL CONTAIN A GROUND BUS.
4. SURFACE MOUNTED PANELBOARD CABINETS SHALL BE INSTALLED ON AN APPROVED STEEL FRAMEWORK TO DISTRIBUTE THE WEIGHT EVENLY TO THE WALL OR FLOOR AND TO PROVIDE A 1-INCH AIR SPACE BETWEEN WALL AND CABINET.
5. ON RECESSED PANELBOARDS, PROVIDE ONE 3/4" EMPTY CONDUIT FROM TOP OF PANEL 6" INTO CEILING SPACE FOR EVERY 3 SPARE CIRCUIT BREAKERS OR SPACES.
6. PROVIDE BOLT ON TYPE BRANCH CIRCUIT BREAKERS. THE BRANCH CIRCUIT BREAKERS SHALL BE CONSTRUCTED WITH OVER CENTER TRIP FREE, AND POSITIVE HANDLE TRIP WITH COMMON TRIP ON ALL MULTIPLE POLE BREAKERS.
7. AFTER COMPLETION OF WORK, PROVIDE A TYPED CIRCUIT DIRECTORY FOR EACH EXISTING PANELBOARD TO REMAIN, AFFECTED BY THIS WORK AND FOR EACH NEW PANELBOARD.

SWITCHES, RECEPTACLES & OUTLETS

1. PRIOR TO INSTALLATION OF ANY TELEPHONE, DATA AND RECEPTACLE OUTLETS, THIS CONTRACTOR SHALL VERIFY ITS FINAL LOCATION WITH THE ARCHITECTURAL PLANS.
2. WHERE TWO OR MORE DEVICES OF THE SAME VOLTAGE ARE SHOWN TOGETHER ON THE PLANS, A GANGED PLATE SHALL BE USED. DEVICES OF DIFFERENT VOLTAGES SHALL BE SEPARATED HORIZONTALLY BY 6" AND SHALL BE HORIZONTALLY OR VERTICALLY ALIGNED.
3. ALL RECEPTACLES, TELEPHONE, AND DATA OUTLETS SHOWN ON A WALL BACK TO BACK SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY.
4. WALL PLATES SHALL BE STAINLESS STEEL. FINISH AS SELECTED BY THE ARCHITECT.
5. COORDINATE LIGHT SWITCHES SHOWN ON DRAWINGS WITH DOOR SWINGS. LOCATE LIGHT SWITCH ON LOCK SIDE OF DOOR.

LIGHTING FIXTURES

1. THIS CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS, FURNITURE AND EQUIPMENT ARE CORRECT BEFORE INSTALLING LIGHT SWITCHES AND OUTLETS.
2. THIS CONTRACTOR SHALL VERIFY AVAILABLE VOLTAGE PRIOR TO ORDERING ANY FIXTURES. ALL FIXTURES SHALL BE COMPATIBLE WITH AVAILABLE VOLTAGE.
3. COORDINATE RECESSED LIGHTING FIXTURES WITH SPRINKLERS, MECHANICAL EQUIPMENT AND ARCHITECTURAL CEILING PLAN. GRID LAYOUT ON PLANS IS APPROXIMATE, ADJUST AND COORDINATE LIGHTING FIXTURES IN FIELD PER ARCHITECTS REFLECTED CEILING PLAN.
4. THIS CONTRACTOR SHALL VERIFY THE TYPE OF CEILING TO INSURE THAT ALL LIGHTING FIXTURES ARE SUITABLE WITH CEILING FINISH.
5. PROVIDE FINISHED FRAMES FOR ALL RECESSED LIGHTING FIXTURES, TYPE TO BE COMPATIBLE WITH CEILING. COORDINATE ALL FIXTURE TYPES WITH CEILING SYSTEM BEFORE ORDERING FIXTURES. PROVIDE ALL MOUNTING ATTACHMENTS FOR A COMPLETE INSTALLATION. LIGHTING FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE. LIGHTING FIXTURES SUPPORTED FROM CEILING SYSTEM OR MECHANICAL EQUIPMENT WILL NOT BE ACCEPTED.
6. ALL NEW LIGHTING FIXTURES SHALL BE INSTALLED COMPLETE WITH LED. SEE PLANS FOR SPECIFIC REQUIREMENTS.
7. COLORS AND FINISHES OF LIGHTING FIXTURES SHALL BE AS SELECTED BY THE ARCHITECT.

STARTERS AND DISCONNECT SWITCHES

1. THIS CONTRACTOR SHALL NOTE U.L. LABELS ON PACKAGED TYPE MECHANICAL EQUIPMENT. IF U.L. LABEL ON MECHANICAL EQUIPMENT TO BE INSTALLED CALLS FOR THE OVERCURRENT PROTECTIVE DEVICE TO BE FUSED, THIS CONTRACTOR SHALL PROVIDE A FUSED DISCONNECT SWITCH WITH PROPER SIZE FUSES AT THE SWITCH LOCATION INDICATED ON DRAWINGS.
2. LOCATE DISCONNECT SWITCH FOR MECHANICAL EQUIPMENT TO PERMIT SERVICING OF EQUIPMENT. PROVIDE FUSES IF REQUIRED BY MANUFACTURER OF EQUIPMENT FOR UL APPROVAL. CONNECT CONDUCTORS AS REQUIRED BY MANUFACTURER.
3. DISCONNECT SWITCHES INDICATED SHALL BE HEAVY- DUTY TYPE, HORSEPOWER RATED, QUICK-MAKE, QUICK-BREAK TYPE SWITCHES WITH SPRING REINFORCED WIRE GRIPS AND SELF-ALIGNING SWITCH CONTACTS AND SHALL BE ENCLOSED IN NEMA-1 UNLESS OTHERWISE NOTED. ENCLOSURE SHALL BE HEAVY METAL WITH HINGED INTERLOCKING COVER WHICH PREVENTS BEING OPEN IN "ON" POSITION.
4. PROVIDE CARTRIDGE TYPE FUSES IN SWITCHES.

BRANCH CIRCUITRY

1. ALUMINUM WIRING WILL NOT BE PERMITTED.
2. ALL WIRING SHALL BE 2#12+#12G IN 3/4" CONDUIT UNLESS NOTED OTHERWISE.
3. ALL CIRCUITRY ROUTING SHOWN IS DIAGRAMMATIC. THIS CONTRACTOR SHALL DETERMINE IN FIELD THE MOST SUITABLE ROUTES.
4. MINIMUM SIZE EMT OR CONDUIT SHALL BE 3/4".
5. NO NONMETALLIC CONDUIT SHALL BE USED FOR BRANCH CIRCUIT WORK ABOVE GRADE.
6. CIRCUITRY SHALL BE INSTALLED CONCEALED IN FINISHED AREAS, EXPOSED IN UNFINISHED AREA.
7. CIRCUITRY SHALL BE INSTALLED TIGHT TO THE UNDERSIDE OF THE FLOOR SLAB ABOVE IN A NEAT WORKMANLIKE MANNER. ALL INSTALLATION SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING WALLS.
8. ALL EMPTY RACEWAYS SHALL CONTAIN A DRAG WIRE. EMPTY RACEWAYS 2" OR LARGER IN SIZE SHALL HAVE A MAXIMUM OF 3-90 DEGREE BENDS.
9. MAKE FINAL CONNECTION TO ALL MOTORS AND VIBRATING EQUIPMENT WITH FLEXIBLE CONDUIT.
10. ALL CONDUIT/CABLE PENETRATIONS OF EXTERIOR WALLS, FIRE RATED WALLS AND FIRE RATED FLOORS, SHALL BE CAULKED AND SEALED WATERTIGHT. SEALS FOR FIRE RATED PENETRATIONS SHALL BE SEALED WITH UL LISTED PUTTY TYPE SEALING COMPOUND.
11. CONTRACTOR SHALL X-RAY THE CONCRETE FLOOR SLAB PRIOR TO CORE DRILLING OR CHISELING TO INSTALL NEW SLEEVES OR CONDUITS.
12. WIRING SHALL BE ARMORED CABLE OR METAL CLAD WIRING. ALL HOME RUNS SHALL BE INSTALLED IN GALVANIZED EMT.
13. FEEDER CONDUITS SHALL BE GALVANIZED EMT OR HEAVY WALL GALVANIZED RIGID STEEL.

WIRE AND CABLE

1. THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THIS CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER OPERATION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.
2. ALL CONDUCTORS, RACEWAYS AND CABLES SHALL BE CONCEALED IN WALL OR INSTALLED ALONG BEAMS UNLESS INDICATED OTHERWISE.
3. CONDUCTORS SHALL BE INSTALLED CONTINUOS BETWEEN DEVICES, WITH SPLICE LOCATED ONLY IN JUNCTION BOXES OR IN CABINETS. CONDUCTORS SHALL BE OF SUFFICIENT LENGTH TO REACH THE FARTHEST TERMINAL IN PANELS. A MINIMUM OF 6" LOOPS SHALL REMAIN WHERE CONNECTIONS OR TAPS ARE TO BE MADE IN BRANCH CIRCUIT WIRING.
4. FEEDERS SHALL BE COPPER (ALL CONDUCTOR SIZES INDICATED ON THE DRAWINGS ARE FOR COPPER CONDUCTORS). INSULATION SHALL BE RATED FOR 75 DEG. C. ALUMINUM FEEDERS WILL BE ALLOWED IF APPROVED BY LOCAL JURISDICTION; SIZES SHOWN ON THE DRAWINGS SHALL MODIFIED FOR ALUMINUM CONDUCTORS.
5. ALL WIRING SHALL BE COLOR CODED THROUGHOUT.
6. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER, MINIMUM NO. 12-EXCEPT CONTROL CONDUCTORS AND LIGHTING TAPS AS PERMITTED BY N.E.C. CONDUCTORS FOR SWITCHING LIGHTS SHALL NOT BE CONSIDERED CONTROL CONDUCTORS. ALL SIZES #8 OR LARGER SHALL HAVE THW INSULATION OR EQUIVALENT. THW OR EQUIVALENT SHALL BE REQUIRED FOR HEATERS OR OTHER UL LISTED DEVICES RATED AT 75 DEG. F. SUPPLY FEED.
7. ALL RECEPTACLES, LIGHTING FIXTURES, MOTORS, ETC., SHALL BE GROUNDED. ALL RECEPTACLE CIRCUITS SHALL CONTAIN A #12 INSULATED GROUND CONDUCTOR.
8. BALANCE THE PANEL LOADS. INSTALL MULTIPLE HOMERUNS TO ALTERNATELY NUMBERED PANELBOARD CIRCUITS (i.e. 1, 3, 5).
9. ALL 120 VOLT CIRCUIT HOMERUNS WHICH ARE OVER 100 LINEAR FEET SHALL BE A MINIMUM OF #10 CONDUCTORS UNLESS OTHERWISE INDICATED ON THE PLANS.

ELECTRICAL SYMBOLS

- 1' X 4' LED LIGHTING FIXTURE
- NEW LED LIGHT FIXTURE MANUFACTURER BY WILLIAMS CATALOG #96-4-L40-840-HIAFR-WET/1-UNIV, FOR ELEVATOR PIT PROVIDE PART #WMB OR PROVIDE SIMILAR LIGHT FIXTURE.
- $ 20A, 277/120V SINGLE POLE TOGGLE SWITCH, MOUNTED +48"
- 20AMP, 125V 3W DUPLEX RECEPTACLE WITH BUILT-IN GROUND FAULT CIRCUIT INTERRUPTER MOUNTED+18"AFF UON
- WP 20A, 125V, 3W WEATHER-RESISTANT DUPLEX RECEPTACLE WITH BUILT-IN GROUND-FAULT CIRCUIT INTERRUPTER AND WEATHERPROOF COVER (WET LOCATION) MOUNTED +18" ABOVE FINISH FLOOR.
- J JUNCTION BOX
- F 30/2/20 FUSIBLE DISCONNECT SWITCH, "30/2/20" AMPERE/POLES/FUSE SIZE
- WIRING AND CONDUIT CONCEALED IN CEILING OR WALL
- WIRING AND CONDUIT CONCEALED IN FLOOR
- BRANCH CIRCUIT HOMERUN. NUMBER OF ARROWS INDICATE NUMBER OR CIRCUITS, NUMBER OF HASH MARKS INDICATE NUMBER OR WIRES IN CONDUIT WHEN MORE THAT TWO. GROUND WIRE NOT SHOWN, BUT REQUIRED. ALL CIRCUITS SHALL HAVE A SEPARATE INSULATED GROUND WIRE
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- DATA/TELEPHONE OUTLET, MOUNTED +18" AFF UON CONTRACTOR SHALL PROVIDE 1" EMPTY CONDUIT EXTENDING ABOVE FINISHED CEILING SPACE SHALL BE TERMINATED WITH 90 DEGREE BEND APPROXIMATE 12" ABOVE THE HUNG CEILING, TERMINATED WITH PULL WIRE AND INSULATED BUSHING.
- SD SMOKE DETECTOR
- HD HEAT DETECTOR
- C CALL BUTTON

ABBREVIATIONS

A	AMPERES OR AMP
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AIC	AMPERE INTERRUPTING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CAT	CATALOG
CKT	CIRCUIT
CU	COPPER
C/B	CIRCUIT BREAKER
C/T	CURRENT TRANSFORMER
CW	COOL WHITE
D	DEPTH
DWG	DRAWING
EC	EMPTY CONDUIT WITH PULL WIRE
FIXT	FIXTURE
FLA	FULL LOAD AMP
FLUO	FLUORESCENT
FLR	FLOOR
FT	FEET
G/GRND	GROUND OR GROUNGIND
GFI	GROUND FAULT INTERRUPTER
H	HEIGHT
HP	HORSEPOWER
FBO	FURNISHED BY OTHERS INSTALLED BY THIS CONTRACTOR
INC	INCANDESCENT
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLTAMPS
KW	KILOWATTS
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MOP	MAXIMUM OVERCURRENT PROTECTION
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACT
NO/#	NUMBER
PVC	POLYVINYL CHLORIDE
RM	ROOM
TYP	TYPICAL
U/G	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTAGE OR VOLT
VA	VOLT AMP
W	WATTS
W/	WITH
WP	WEATHERPROOF

SUBSCRIPTS ADJACENT TO SYMBOLS

(E)	EXISTING DEVICE
(R)	EXISTING RELOCATED DEVICE
(XR)	EXISTING DEVICE TO BE REMOVED AND RELOCATED
(X)	EXISTING DEVICE TO BE REMOVED
(N)	NEW DEVICE
(XN)	REPLACE WITH NEW

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OWNER
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DIVISION OF CONSTRUCTION
45 W. GUDE DRIVE, 4TH FLOOR
ROCKVILLE, MD 20850

MECHANICAL / PLUMBING / ELECTICAL ENGINEER
CTA CONSULTING ENGINEERS
220 North Adams Street, Rockville, MD 20850
(301) 762-7172 www.ctaengineers.com
Pro. No. 24081.9

CERTIFICATION BLOCK

I certify that these documents were prepared and approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland

License Number: 12404

Expiration Date: April 12, 2025

ALBERT EINSTEIN HIGH SCHOOL ELEVATOR MODERNIZATION

11135 Newport Mill Rd.
Kensington, MD 20895

GENERAL NOTES, SYMBOLS & ABBREVIATIONS

PROJECT NO.	24081.9
DRAWN BY	E.J.C.
REVIEWED BY	R.C.

PROJECT ISSUE DATE
PERMIT/BID SET 02.04.2025

REV.	ISSUE:	DATE

DRAWING STAMP

STATE OF MARYLAND · PARIDHI ANGEL · 37240A · PROFESSIONAL ENGINEER

SHEET NUMBER
E001

T:\Shared drives\DCI\Projects\24000\24-078 MCPS Elevators Albert Einstein HS\DWG\24-1111 MCPS Albert Einstein HS Elevator.rvt

GENERAL NOTES: DEMOLITION

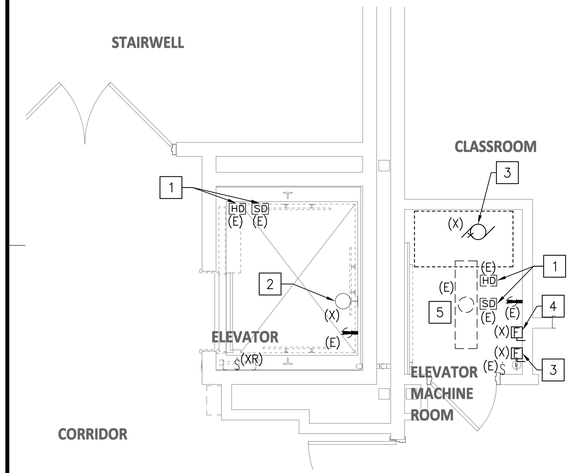
A. ALL WORK ON THIS PLAN IS EXISTING TO REMAIN UNLESS OTHERWISE INDICATED TO BE REMOVED.

ELEVATOR NOTE:

MONTGOMERY COUNTY PUBLIC SCHOOLS, DOES NOT REQUIRE THE ELEVATORS TO BE CONNECTED TO THE GENERATOR EMERGENCY OR STANDBY CIRCUITS WHEN THE ELEVATOR UNIT IS EQUIPPED WITH BATTERY POWERING LOWERING DEVICES. THE EXISTING ELEVATOR AS WELL AS THE NEW ELEVATOR ARE EQUIPPED WITH BATTERY POWERING LOWERING DEVICES, THEREFORE IT DOES NOT REQUIRE TO BE CONNECTED TO THE GENERATOR.

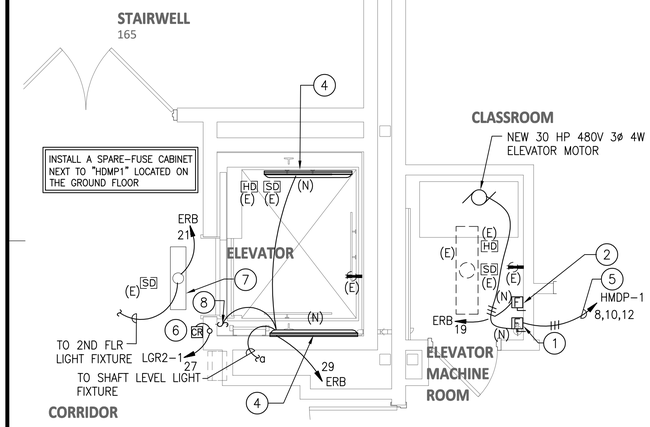
REFERENCE NOTES: DEMOLITION

1. EXISTING SMOKE/HEAT DETECTORS SERVING ELEVATOR RECALL SYSTEM LOCATED IN MACHINE ROOM, ELEVATOR PIT/SHAFT ARE TO REMAIN.
2. EXISTING ELEVATOR PIT LIGHT FIXTURE TO BE REMOVED AND REPLACE WITH NEW. REMOVE ASSOCIATED CONDUIT/WIRE BACK TO PANEL REFER TO NEW WORK.
3. EXISTING ELEVATOR MOTOR 30HP–480V 3Ø MOTOR TO BE REMOVE AND REPLACE IN KIND REMOVE ALL ASSOCIATED DISCONNECT SWITCH, CONDUIT AND WIRING, ETC. BACK TO SOURCE. TO BE REPLACE WITH NEW SEE NEW WORK.
4. EXISTING ELEVATOR DISCONNECT SWITCH SERVING CAR FAN & LIGHTS TO BE REMOVE AND REPLACE WITH NEW REMOVE ASSOCIATED CONDUIT, AND WIRING BACK TO SOURCE REFER TO NEW WORK.
5. EXISTING LIGHT FIXTURE TO REMAIN



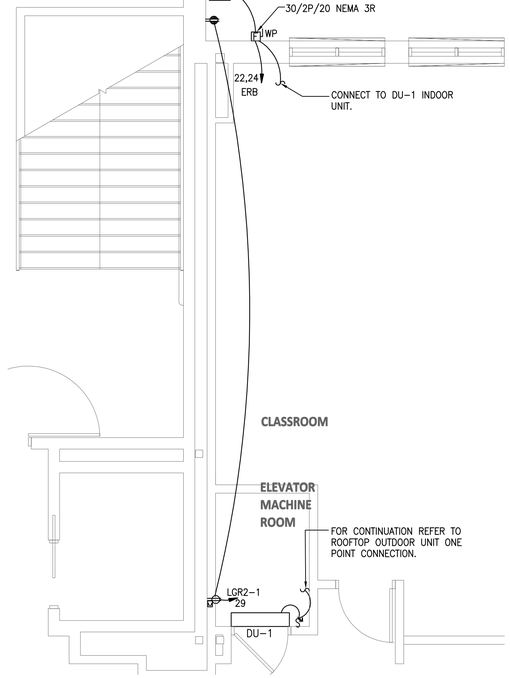
PARTIAL GROUND FLOOR PLAN - DEMOLITION WORK

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



PARTIAL GROUND FLOOR PLAN - NEW WORK

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



PARTIAL GROUND FLOOR PLAN - MECHANICAL EQUIPMENT NEW WORK

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

GENERAL NOTES: NEW WORK

A. ALL WORK ON THIS PLAN IS NEW UNLESS OTHERWISE INDICATED AS EXISTING.

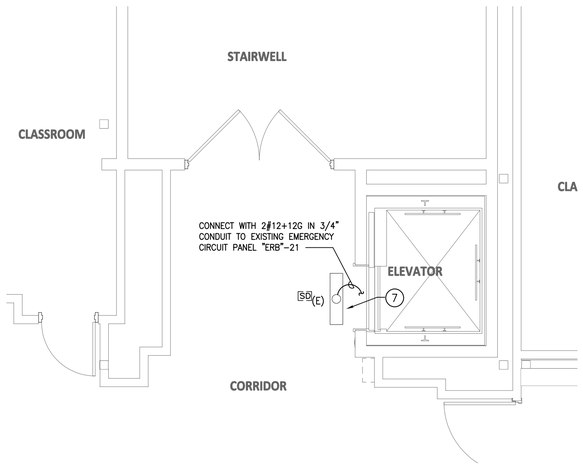
B. ELEVATOR: EMERGENCY BATTERY OPERATION LOWERING, A MECHANICAL AUXILIARY CONTACT SHALL BE INSTALLED ON THE DISCONNECT SWITCH FOR ELEV. CAP. THE AUXILIARY SHALL BE CONFIGURED AS SPST AT 1AMP 115V (MIN). THE AUXILIARY CONTACT SHALL BE OPEN WHEN THE DISCONNECT SWITCH IS IN THE OPEN POSITION. OF A SHUNT TRIP CIRCUIT BREAKER IS PROVIDED AN AUXILIARY CONTACT SHALL BE INSTALLED ON THE CIRCUIT BREAKER.

C. ELEVATOR REQUIREMENTS MAY VARY FROM ONE MANUFACTURER TO ANOTHER. CONTRACTOR SHALL VERIFY ELECTRICAL REQUIREMENT OF ELEVATOR TO BE INSTALLED PRIOR TO ROUGH–IN TO ENSURE PROPER OPERATION AND OVERCURRENT PROTECTION.

D. PROVIDE NEW SHUNT–TRIP TYPE MAIN LINE DISCONNECT SWITCHES AND FUSES CAR LIGHTING DISCONNECT SWITCHES. PROVIDE REQUIRED GROUNDING CONDUCTOR IN EACH DISCONNECT SWITCH. PROVIDE POWER SUPPLY AND BRANCH CIRCUIT FOR MACHINE ROOM PUMPING UNIT OIL COOLER OR OIL HEATER.

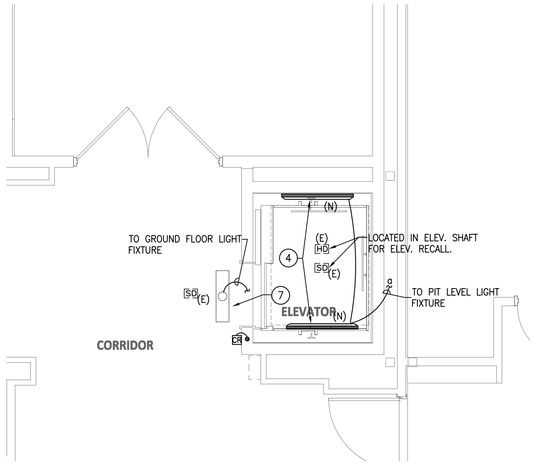
REFERENCE NOTES: NEW WORK

1. PROVIDE 3P–100 AMP 600V FUSED DISCONNECT SWITCH WITH 90 AMP DUAL ELEMENT TIME DELAY FUSES SWITCH SHALL BE PROVIDED WITH PROVISION TO SEAL IN THE "OFF" POSITION, PROVIDE AUX DRY CONTACT.
2. PROVIDE 1P+S/N 30 AMP FUSED DISCONNECT SWITCH WITH 20 AMP FUSE FOR ELEVATOR CAR FAN & LIGHT.
3. PROVIDE MODIFICATIONS AND PROGRAMING OF THE BUILDING FIRE ALARM AND SMOKE DETECTOR SYSTEM AND ASSOCIATED DEVICES FOR ELEVATOR RECALL AND SHUNT TRIP OPERATION. AT THE PRESENT ALL EXISTING ELEVATOR RECALL SYSTEM SMOKE, HEAT DETECTOR IN THE ELEVATOR MACHINE ROOM, ELEVATOR PIT/SHAFT AND LOBBY ARE EXISTING TO REMAIN UON. THIS CONTRACTOR SHALL MODIFY IF SO REQUIRED BY NEW ELEVATOR REQUIREMENTS.
4. PROVIDE NEW LED LIGHT FIXTURE FULLY ENCLOSED & GASKETED AT ELEVATOR PIT AND MACHINE ROOM LIGHT FIXTURE MANUFACTURER BY WILLIAMS CATALOG #96–4–L40–840–HIAFR–WET/1 FOR ELEVATOR PIT PROVIDE PART #WMB OR PROVIDE SIMILAR LIGHT FIXTURE.
5. RECONNECT BACK TO EXISTING PANEL "HMDP–1" 1200 AMP 277/480V 3ø 4W EXIST. POSITIONS #8,10,12 TO EXIST. 3P–90 AMP CIRCUIT BREAKER W/BUILT–IN SHUNT–TRIP MECHANISM SERVING SAME REFER TO PANEL SCHEDULE. REFER TO ELEVATOR NOTE ON THIS SHEET.
6. CARD READER CONNECTION.
7. PROVIDE NEW RECESSED LED LIGHT FIXTURE MODEL MX4RG–2'00–L12–8–30–F–DRV–UNV MANUFACTURED BY WILLIAMS LIGHTING OR SIMILAR.
8. RELOCATED SWITCH PROVIDE NEW SWITCH AND RECONNECT BACK TO SOURCE.



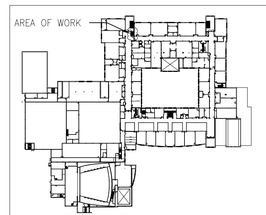
PARTIAL 1ST FLOOR PLAN - NEW WORK

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

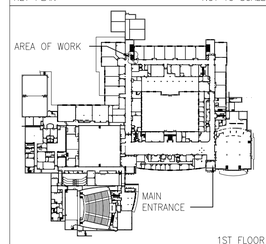


PARTIAL 2ND LEVEL - NEW WORK

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



KEY PLAN NOT TO SCALE



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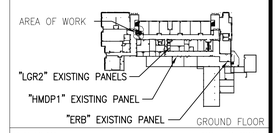

KEY PLAN NOT TO SCALE

dci ARCHITECTS
107A W EDMONSTON DRIVE
ROCKVILLE, MD 20852
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OWNER
MONTGOMERY COUNTY PUBLIC SCHOOLS
DIVISION OF CONSTRUCTION
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MECHANICAL / PLUMBING / ELECTICAL ENGINEER
CTA CONSULTING ENGINEERS
220 North Adams Street, Rockville, MD 20850
(301) 762-7172 www.ctaengineers.com
Pro. No. 24081.9

CERTIFICATION BLOCK

I certify that these documents were prepared and approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland

License Number: 12404

Expiration Date: April 12, 2025

ALBERT EINSTEIN HIGH SCHOOL ELEVATOR MODERNIZATION

11135 Newport Mill Rd, Kensington, MD 20895

ELEVATOR - DEMO AND NEW WORK FLOOR PLANS

PROJECT NO.	24081.9
DRAWN BY	E.J.C.
REVIEWED BY	R.C.

PROJECT ISSUE DATE
PERMIT/BID SET 02.04.2025

REV.	ISSUE:	DATE

DRAWING STAMP

STATE OF MARYLAND PRISCILLA ANGEL JUN 1ST 2024 7240A PROFESSIONAL ENGINEER

SHEET NUMBER

E002

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EXISTING PANELBOARD SCHEDULE — HMDP1

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING
277/ 480	3	4		1200	65000	SURFACE

TYPE LEGEND

L	LIGHTING	K	KITCHN EQPMNT.	E	EXISTING	REMARKS	MAIN ELECTRICAL ROOM
R	RECEPTACLES	Z	LARGEST MOTOR	-			
M	MECH EQUIP	O	OTHER	-			

CKT. #	ITEM SERVED	TYPE	WIRE	COND.	CKT. BRK TRIP	CKT. BRK P	LOAD (VA)	PHASE	LOAD (VA)	CKT. BRK P	CKT. BRK TRIP	COND.	WIRE	TYPE	ITEM	CKT. #
1	EXISTING PANEL HB1		E	E	100	3		A	83	3	20	E	E	O	EXISTING EMS PHASE MONITOR	2
3	" "							B	83						" "	4
5	" "							C	83						" "	6
7	EXISTING PANEL HB		E	E	30	3		A	4800	3	90	1-1/4"	3#3+8G	M	EXISTING ELEVATOR SHUNT-TRIP #1	8
9	" "							B	4800						" "	10
11	" "							C	4800						" "	12
13	EXISTING PANEL HB2		E	E	150	3		A	59486	3	500	E	E	O	EXISTING TRANSFORMER	14
15	" "							B	59486						" "	16
17	" "							C	59486						" "	18
19	SPACE							A							SPACE	20
21	" "							B							" "	22
23	" "							C							" "	24
25	SPACE							A							SPACE	26
27	" "							B							" "	28
29	" "							C							" "	30

NOTES:
1. ALL WIRING SHALL BE 2#12+#12G UNO
2.

	A	B	C	TOTAL
CONNECTED LOAD (VA)	64369	64369	64369	193107

TYPE	LOAD (VA)	SUBLOADS (VA) PNL HB1	PNL HB	PNL HB2	CONN LD(VA)	DEMAND FACTOR	DEMAND LOAD (VA)
LIGHTING	0	12,500	7,470	11,250	31,220	125%	39,025
RECEPTACLES	0	0	0	0	0	*	0
MECH EQUIP	14,400	9,800	1,500	10,000	35,700	100%	35,700
KITCHN EQPMNT.	0	0	0	0	0	100%	0
LARGEST MOTOR	0	0	0	0	0	125%	0
OTHER	178,707		-	-	178,707	100%	178,707
EXISTING	0	0	0	0	0	125%	0
CONNECTED TOTAL (VA)	245,627						253,432
CONNECTED AMPACITY (A)	295.44						304.83

(1ST 10KVA @ 100%, REMAINING @ 50%)

0 # OF KITCH EQUIPMENT

DEMAND LOAD
DEMAND AMPACITY (A)

EXISTING PANELBOARD SCHEDULE — LGR2 SEC. 1

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING
120/ 208	3	4	225		10000	RECESSED

TYPE LEGEND

L	LIGHTING	K	KITCHN EQPMNT.	E	EXISTING	REMARKS	ELECTRICAL ROOM 126
R	RECEPTACLES	Z	LARGEST MOTOR	-			
M	MECH EQUIP	O	OTHER	-			

CKT. #	ITEM SERVED	TYPE	WIRE	COND.	CKT. BRK TRIP	CKT. BRK P	LOAD (VA)	PHASE	LOAD (VA)	CKT. BRK P	CKT. BRK TRIP	COND.	WIRE	TYPE	ITEM	CKT. #
1	EXISTING FL CR B018 RECEPTACLES	R	E	E	20	1	1080	A	1080	1	20	E	E	R	EXISTING FL CR B019 RECEPTACLES	2
3	EXISTING FL CR B018 RECPTACLES	R	E	E	20	1	1080	B	1080	1	20	E	E	R	EXISTING FL CR B019 RECEPTACLES	4
5	EXISTING SEMINAR B020 REC	R	E	E	20	1	1080	C	900	1	20	E	E	R	EXISTING OFF B012 RECEPTACLES	6
7	EXISTING FL LAB B016	R	E	E	20	1	1080	A	900	1	20	E	E	R	EXISTING OFF B011 & B012 RECEPTACLES	8
9	EXISTING FL CR B016 RECEPTACLES	R	E	E	20	1	1080	B	1080	1	20	E	E	R	EXISTING SEMINAR B014 RECEPTACLES	10
11	SPARE				20	1		C	1080	1	20	E	E	R	EXISTING SEMINAR B014 RECEPTACLES	12
13	EXISTING BUILDING SERVICE B033	R	E	E	20	1	1080	A	1080	1	20	E	E	R	EXISTING OFF & STORAGE RECEPTACLES	14
15	EXISTING OFF B034, B035 RECEPTACLES	R	E	E	20	1	1080	B	360	1	20	E	E	R	EXISTING FL CR B022 RECEPTACLES	16
17	EXISTING MISC RECEPTACLES	R	E	E	20	1	500	C	1080	1	20	E	E	R	EXISTING FL CR B018 RECEPTACLES	18
19	EXISTING MISC RECEPTACLES	L	E	E	20	1	500	A	600	1	20	E	E	R	EXISTING FL CR B018 RECEPTACLES	20
21	EXISTING FL CR B019 COMPUTER	R	E	E	20	1	720	B	600	1	20	E	E	R	EXISTING FL CR B016 RECPTACLES	22
23	EXISTING FL CR B019 COMPUTER	R	E	E	20	1	720	C	230	1	20	E	E	R	EXISTING FL CR B016 RECPTACLES	24
25	EXISTING B034 & B035 COMPUTER	R	E	E	20	1	1080	A	720	1	20	E	E	R	EXISTING FL OFF B022 COMP	26
27	NEW ELEVATOR CARD READER	R	E	E	20	1	50	B	720	1	20	E	E	R	EXISTING FL OFF B022 COMP	28
29	NEW RECEPTACLE ON ROOF	R	2#12+12G	3/4"	20	1	360	C	1080	1	20	E	E	R	EXISTING OFF B011 & B012 RECEPTACLES	30

CO

NOTES:
1. ALL WIRING SHALL BE 2#12+#12G UNO

	A	B	C	TOTAL
CONNECTED LOAD (VA)	9200	7850	7030	24080

TYPE	LOAD (VA)	SUBLOADS (VA) PNL	PNL	PNL	CONN LD(VA)	DEMAND FACTOR	DEMAND LOAD (VA)
LIGHTING	500	-	-	-	500	125%	625
RECEPTACLES	23,580	-	-	-	23,580	*	16,790
MECH EQUIP	0	-	-	-	0	100%	0
KITCHN EQPMNT.	0	-	-	-	0	100%	0
LARGEST MOTOR	0	-	-	-	0	125%	0
OTHER	0	-	-	-	0	100%	0
EXISTING	0	-	-	-	0	125%	0
CONNECTED TOTAL (VA)	24,080						17,415
CONNECTED AMPACITY (A)	66.84						48.34

(1ST 10KVA @ 100%, REMAINING @ 50%)

0 # OF KITCH EQUIPMENT

DEMAND LOAD
DEMAND AMPACITY (A)

EXISTING PANELBOARD SCHEDULE — LGR2 SEC. 2

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING
120/ 208	3	4	225		10000	RECESSED

TYPE LEGEND

L	LIGHTING	K	KITCHN EQPMNT.	E	EXISTING	REMARKS	ELECTRICAL ROOM 126
R	RECEPTACLES	Z	LARGEST MOTOR	-			
M	MECH EQUIP	O	OTHER	-			

CKT. #	ITEM SERVED	TYPE	WIRE	COND.	CKT. BRK TRIP	CKT. BRK P	LOAD (VA)	PHASE	LOAD (VA)	CKT. BRK P	CKT. BRK TRIP	COND.	WIRE	TYPE	ITEM	CKT. #
31	EXISTING FL OFF B022 SMALL APPLIANCES	L	E	E	20	1	1500	A	1080	1	20	E	E	R	EXISTING BUILDING SERVICE SMALL APPLIANCE	32
33	EXISTING FL OFF B022 REFRIGERATOR	L	E	E	20	1	500	B	500	1	20	E	E	R	EXISTING BUILDING SERVICE REFRIGERATOR	34
35	EXISTING UNIT VENTILATOR	O	E	E	20	1	450	C	900	1	20	E	E	R	EXISTING EWC	36
37	EXISTING UNIT VENTILATOR	O	E	E	20	1	450	A	900	1	20	E	E	R	EXISTING PRV #25	38
39	SPARE				20	1		B	250	1	20	E	E	R	EXISTING SMOKE DAMPER	40
41	EXISTING ATTU # 16	R	E	E	20	1	900	C	50	1	20	E	E	O	EXISTING EMS	42
43	EXISTING CONDENSING UNIT	R	E	E	20	2	1080	A							SPACE	44
45	" "							B							SPACE	46
47	SPACE							C							SPACE	48
49	SPACE							A							SPACE	50
51	SPACE							B							SPACE	52
53	SPACE							C							SPACE	54
55	SPACE							A							SPACE	56
57	SPACE							B							SPACE	58
59	SPACE							C							SPACE	60

NOTES:
1. ALL WIRING SHALL BE 2#12+#12G UNO

	A	B	C	TOTAL
CONNECTED LOAD (VA)	5010	1250	2300	8560

TYPE	LOAD (VA)	SUBLOADS (VA) PNL	PNL	PNL	CONN LD(VA)	DEMAND FACTOR	DEMAND LOAD (VA)
LIGHTING	2,000	-	-	-	2,000	125%	2,500
RECEPTACLES	5,610	-	-	-	5,610	*	5,610
MECH EQUIP	0	-	-	-	0	100%	0
KITCHN EQPMNT.	0	-	-	-	0	100%	0
LARGEST MOTOR	0	-	-	-	0	125%	0
OTHER	950	-	-	-	950	100%	950
EXISTING	0	-	-	-	0	125%	0
CONNECTED TOTAL (VA)	8,560						9,060
CONNECTED AMPACITY (A)	23.76						25.15

(1ST 10KVA @ 100%, REMAINING @ 50%)

0 # OF KITCH EQUIPMENT

DEMAND LOAD
DEMAND AMPACITY (A)

EXISTING PANELBOARD SCHEDULE — ERB

VOLTAGE	PHASE	WIRE	MCB (A)	MLO (A)	AIC	MOUNTING
120/ 208	3	4	50		10000	RECESSED

TYPE LEGEND

L	LIGHTING	K	KITCHN EQPMNT.	E	EXISTING	REMARKS	ELECTRICAL ROOM 126
R	RECEPTACLES	Z	LARGEST MOTOR	-			
M	MECH EQUIP	O	OTHER	-			

CKT. #	ITEM SERVED	TYPE	WIRE	COND.	CKT. BRK TRIP	CKT. BRK P	LOAD (VA)	PHASE	LOAD (VA)	CKT. BRK P	CKT. BRK TRIP	COND.	WIRE	TYPE	ITEM	CKT. #
1	EXISTING BLOCK HEATER	M	E	E	30	1	3000	A		3				O	EXISTING SPD	2
3	EXISTING BLOCK HEATER	M	E	E	30	1	3000	B								4
5	EXISTING BATTERY CHARGER	O	E	E	30	1	100	C								6
7	EXISTING STRIP HEATER	O	E	E	30	1	200	A	700	1	30	E	E	O	EXISTING FIRE ALARM PANEL	8
9	SPARE				30	1		B	1000	1	30	E	E	O	EXISTING BOILER 2	10
11	SPARE				30	1		C		1	30				SPARE	12
13	SPARE				30	1		A		1	30				SPARE	14
15	SPARE				30	1		B		1	30				SPARE	16
17	SPARE				30	1		C		1	30				SPARE	18
19	NEW ELEVATOR CAR LIGHT & FAN	L	3/4"		20	1	250	A	120	1	20	3/4"		L	NEW ELEV. PIT/SHAFT LIGHT	20
21	NEW ELV. LOBBY LIGHT	L	3/4"		20	1	120	B	1560	2	20	3/4"		M	OUTDOOR UNIT DAC-1/INDOOR UNIT DU-1	22
23	SPACE							C	1560						" "	24
25	SPACE							A							SPACE	26
27	SPACE							B							SPACE	28
29	SPACE							C							SPACE	30
31	SPACE							A							SPACE	32

NOTES:
1. ALL WIRING SHALL BE 2#12+#12G UNO

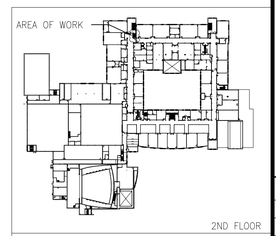
	A	B	C	TOTAL
CONNECTED LOAD (VA)	4270	5080	1660	11610

TYPE	LOAD (VA)	SUBLOADS (VA) PNL	PNL	PNL	CONN LD(VA)	DEMAND FACTOR	DEMAND LOAD (VA)
LIGHTING	490	-	-	-	490	125%	613
RECEPTACLES	0	-	-	-	0	*	0
MECH EQUIP	9,120	-	-	-	9,120	100%	9,120
KITCHN EQPMNT.	0	-	-	-	0	100%	0
LARGEST MOTOR	0	-	-	-	0	125%	0
OTHER	2,000	-	-	-	2,000	100%	2,000
EXISTING	0	-	-	-	0	125%	0
CONNECTED TOTAL (VA)	11,610						11,733
CONNECTED AMPACITY (A)	32.23						32.57

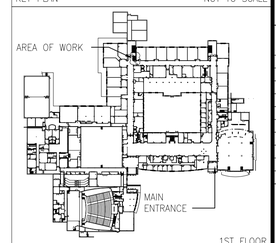
(1ST 10KVA @ 100%, REMAINING @ 50%)

0 # OF KITCH EQUIPMENT

DEMAND LOAD
DEMAND AMPACITY (A)



KEY PLAN NOT TO SCALE



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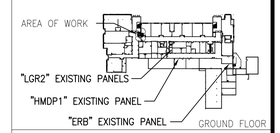

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Pre Rev. 24081.9

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Expiration Date: April 12, 2025

ALBERT EINSTEIN HIGH SCHOOL ELEVATOR MODERNIZATION

11135 Newport Mill Rd.
Kensington, MD 20895

PANEL SCHEDULES

PROJECT NO.	24081.9
DRAWN BY	E.J.C.
REVIEWED BY	R.C.

PROJECT ISSUE DATE
PERMIT/BID SET 02.04.2025

REV.	ISSUE:	DATE

DRAWING STAMP

STATE OF MARYLAND — PARIKSHIT ANGEL VAIDYA — 12404 — PROFESSIONAL ENGINEER

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