NO.	ISSUANCE	DATE	REVISION
1	ISSUED FOR BID	12/07/2023	

LIST OF DRAWINGS

ABATEMENT
- HM-100 HAZARDOUS MATERIAL NOTES
- HM-102 FIRST FLOOR ABATEMENT PLAN
- HM-103 SECOND FLOOR ABATEMENT PLAN
- HM-104 ROOF ABATEMENT PLAN

STRUCTURAL
- S-1 RTU FRAMING PLANS, SECTIONS AND DETAILS

ARCHITECTURAL
- G1 LOCATION MAP, ABBREVIATIONS, LEGENDS, GENERAL NOTES, GENERAL WINDOW NOTES & GENERAL REMOVAL NOTES
- A-100 GROUND FLOOR PLAN
- A-101 FIRST FLOOR PLAN
- A-102 SECOND FLOOR PLAN
- A-103 SECOND FLOOR NEW BATHROOM PLAN - REMOVALS AND NEW WORK
- A-104 SECOND FLOOR NEW BATHROOM DETAILS AND GUIDELINES
- A-110 ROOF PLAN
- A-111 ROOF DETAILS
- A-112 ROOF DETAILS
- A-113 ROOF DETAILS
- A-114 ROOF DETAILS
- AR-200 SECOND FLOOR REMOVAL REFLECTED CEILING PLAN
- AR-201 ALTERNATE SECOND FLOOR REMOVAL REFLECTED CEILING PLAN
- A-200 SECOND FLOOR REFLECTED CEILING PLAN
- A-201 ALTERNATE SECOND FLOOR REFLECTED CEILING PLAN
- A-300 MAIN BUILDING EXTERIOR ELEVATIONS
- A-301 MAIN BUILDING EXTERIOR ELEVATIONS
- A-500 PARTITION TYPE & MISCELLANEOUS DETAILS
- A-525 MISCELLANEOUS DETAILS
- A-700 DOOR SCHEDULE, TYPES AND DETAILS
- A-725 WINDOW SCHEDULE, A/C UNIT SCHEDULE AND DETAILS
- A-825 PARTIAL FIRST FLOOR FINISH PLAN, FINISH SCHEDULE LEGEND & FINISH SCHEDULE

MECHANICAL
- M-001 ABBREVIATIONS AND SYMBOLS
- MD-100 GROUND FLOOR AND FIRST FLOOR PLANS - DEMOLITION
- MD-101 SECOND FLOOR PLAN - DEMOLITION
- MD-102 ROOF PLAN - DEMOLITION
- M-100 GROUND FLOOR PLAN - NEW WORK
- M-101 FIRST FLOOR PLAN - NEW WORK
- M-102 SECOND FLOOR PLAN - NEW WORK
- M-103 ROOF PLAN - NEW WORK
- M-104 SECOND FLOOR PLAN - DEMOLITION AND NEW WORK
- M-500 SCHEDULES
- M-501 DETAILS
- M-600 CONTROL SCHEMATICS

ELECTRICAL
- E-001 ABBREVIATIONS AND SYMBOLS
- ED-100 GROUND FLOOR, FIRST FLOOR AND FIRST FLOOR PLANS - DEMOLITION
- E-100 GROUND FLOOR PLAN - NEW WORK
- E-101 FIRST FLOOR PLAN - NEW WORK
- E-102 SECOND FLOOR PLAN - NEW WORK
- E-103 SITE LIGHTING PLAN
- E-104 ROOF PLAN - NEW WORK
- E-500 ELECTRIC EQUIPMENT AND CONTROL SCHEDULE
- E-501 PANEL SCHEDULES AND DETAILS
- E-502 ONE LINE LIGHT AND POWER RISER DIAGRAM

PLUMBING
- P-001 ABBREVIATIONS AND SYMBOLS
- P-101 PARTIAL SECOND FLOOR PLAN - DEMOLITION AND NEW WORK
- P-500 SCHEDULES AND DETAILS

SECURITY
- SE-100 GROUND FLOOR
- SE-101 FIRST FLOOR
- SE-102 SECOND FLOOR

YONKERS PUBLIC SCHOOLS

One Larkin Center, Yonkers, New York 10701

ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF, HEATING PLANT & WINDOW REPLACEMENT AND INTERIOR UPGRADES

MARTIN LUTHER KING, JR. ACADEMY

PROJECT LOCATION MAP
SCALE: N.T.S.

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S.E.D. # 66-23-00-01-0-233-009 (MAIN BUILDING) — YPS JOB # 10875

S.E.D. # 66-23-00-01-0-322-002 (MODULAR / ANNEX BUILDING) — YPS JOB # 10925

BID SET — *12-07-2023*

00 CP

ERJ Y19005D4 FILE PATH - N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CP# 10875 YPS MLK\CAD\Part3\Interior\19mlk01 PROJECT TITLE SHEET.dwg

HAZARDOUS MATERIALS ABATEMENT – GENERAL NOTES:

1. THE FIGURES SHOWN ON THE DRAWINGS ARE INCLUDED HEREIN FOR INFORMATIONAL PURPOSES ONLY AND DO NOT ABSOLVE THE CONTRACTOR FROM THEIR RESPONSIBILITY TO VERIFY ALL MEASUREMENTS PRIOR TO BIDDING. THE ENGINEER DOES NOT STATE THAT THESE MEASUREMENTS ARE COMPLETELY ACCURATE, BUT ARE BASED UPON AVAILABLE DATA.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND THE SPECIFICATIONS; 12 NYCRR PART 56 (INDUSTRIAL CODE RULE 56), ANY APPROVED SITE SPECIFIC AND APPLICABLE VARIANCE; 40 CFR 763 SUBPART E (A.H.E.R.A); 40 CFR 61 SUBPART M (N.E.S.H.A.P); 29 CFR 1926.1101; AND NY STATE EDUCATION DEPARTMENT (S.E.D.) 8–NYCRR PART 155.5 AND APPLICABLE, FEDERAL, STATE AND LOCAL CODES, REGULATIONS AND LAWS.
3. THE CONTRACTOR SHALL PROPOSE TO THE ENGINEER THE METHODS USED FOR ABATEMENT, TRANSPORT, AND DISPOSAL OF ALL HAZARDOUS MATERIALS.
4. ALL EMERGENCY EXITS MUST BE MAINTAINED. ALL FIRE SAFETY SYSTEMS (SPRINKLERS, SENSORS, EMERGENCY LIGHTS, AND ALARMS) MUST BE MAINTAINED IN AN OPERATING CONDITION.
5. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PETITION THE NEW YORK STATE DEPARTMENT OF LABOR FOR ANY AND ALL SPECIFIC VARIANCES NECESSARY TO ACCOMPLISH THE WORK OR DESIRED BY THE CONTRACTOR. SPECIFIC VARIANCES ARE SUBJECT TO APPROVAL BY THE OWNER AND ENGINEER.
6. NON–FRIABLE ASBESTOS CONTAINING MATERIALS (E.G. ROOFING, TRANSITE, FLOORING AND MASTICS) MAY BE TRANSPORTED FROM THE SITE AND DISPOSED OF AS CONSTRUCTION AND DEMOLITION DEBRIS IN ACCORDANCE WITH 6 NYCRR PART 360 AND 364.
7. ALL NON–FRIABLE ASBESTOS CONTAINING MATERIALS REMOVED FROM THE SITE AS CONSTRUCTION AND DEMOLITION DEBRIS WASTE MUST NOT BE PROCESSED AT A C&D WASTE CONSOLIDATION FACILITY WHERE THE ACM WILL BE GRINDED OR PROCESSED BY A MEANS THAT MAY MAKE THE ACM FRIABLE REGULATED ASBESTOS CONTAINING MATERIAL (RACM).
8. ANY ACM MADE FRIABLE BY THE CONTRACTOR SHALL BE MANAGED AND DISPOSED OF AS RACM.
9. FRIABLE ASBESTOS CONTAINING MATERIALS MUST BE HANDLED, TRANSPORTED AND DISPOSED OF AS REGULATED ASBESTOS CONTAINING MATERIALS (RACM). ALL RACM MUST BE MANIFESTED FROM THE SITE USING A REGULATED WASTE MANIFEST (RWM). COPIES OF MANIFEST MUST BE PROVIDED TO OWNERS REPRESENTATIVE AT THE TIME WASTE IS REMOVED FROM SITE. MANIFEST MUST CLEARLY IDENTIFY TYPES OF WASTE AND QUANTITY OF WASTE (I.E. NUMBER OF BAGS, DRUMS) AND WHAT WASTE IS CONTAINED IN THEM.
10. ALL LIQUID WASTE MUST BE CONTAINERIZED IN APPROPRIATE CONTAINERS APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION (DOT) FOR LIQUID WASTE.
11. ALL WASTE MUST BE REMOVED FROM SITE WITHIN 10 DAYS OF JOB COMPLETION. ALL WASTE MANIFESTS SHALL BE SIGNED BY DISPOSAL FACILITY AND RETURNED TO OWNER WITHIN 30 DAYS. DISPOSAL FACILITY SHALL BE THE SAME AS LISTED ON NOTIFICATIONS. ANY DEVIATIONS FROM NOTIFICATION SHALL REQUIRE APPROVAL. WASTE CANNOT BE REMOVED FROM SITE AND MIXED OR TRANSFERRED INTO OTHER WASTE CONTAINERS UNLESS COMPLETED AT A PERMITTED WASTE TRANSFER STATION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL GLUE, NAILS, TAPE, STAPLES, ETC. USED DURING THE ABATEMENT. ANY DAMAGE TO BUILDINGS, OBJECTS, FLOORS, CEILINGS OR WALLS INCLUDING BUT NOT LIMITED TO DAMAGED PAINTED SURFACES WILL BE REPAIRED BY THE CONTRACTOR. DAMAGE TO PAINTED SURFACES WILL BE REPAIRED TO A PAINTABLE CONDITION AND REPAINTED TO MATCH TO THE NEAREST INTERSECTION AS APPROVED BY THE OWNER AND THE ENGINEER.
13. THE OWNER, ENGINEER AND ABATEMENT CONTRACTOR WILL AGREE ON THE LOCATION OF THE PERSONAL AND WASTE DECONTAMINATION ENCLOSURE SYSTEMS, AND WASTE CONTAINER STORAGE AREA.
14. SUPPORT AND PROTECT ALL SYSTEMS NOT SCHEDULED FOR REMOVAL EXPOSED BY ABATEMENT. SUCH SYSTEMS INCLUDE WITHOUT LIMITATION: HIGH VOLTAGE LINES; LOW VOLTAGE LINES; PNEUMATIC LINES; CABLE TELEVISION LINES AND TELEPHONE LINES.
15. THE ENGINEER THAT SIGNED THIS DOCUMENT CERTIFIES THAT TO THE BEST OF HIS KNOWLEDGE, INFORMATION, AND BELIEF THE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE STATE ENERGY AND CONSERVATION CONSTRUCTION CODE, CONSTRUCTION STANDARDS OF THE COMMISSIONER OF EDUCATION, NEW YORK STATE DEPARTMENT OF LABOR PART 56 OF TITLE 12 AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ASBESTOS HAZARD EMERGENCY RESPONSE ACT REGULATIONS.
16. THE ENGINEER, JACK EISENBACH, IS ACCREDITED BY THE ENVIRONMENTAL PROTECTION AGENCY UNDER THE AHERA REGULATION FOR ASBESTOS PROJECT DESIGNER (ASBESTOS HANDLING CERTIFICATE NUMBER AS 88–07060).

ASBESTOS CONTAINING PITCH POCKET FLASHING:

1. THIS WORK INCLUDES THE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING ROOF FLASHINGS AS INDICATED ON THE DRAWING.
2. REMOVE THE ASBESTOS CONTAINING ROOFING MATERIALS TO THE SUBSTRATE BELOW.
3. REMOVE ALL FLASHING UP TO EIGHTEEN INCHES AWAY FROM THE PENETRATION LOCATIONS.
4. ALL ABATED MATERIALS SHALL BE REMOVED FROM THE WORK AREA AS ASBESTOS CONTAMINATED WASTE IN ACCORDANCE WITH INDUSTRIAL CODE RULE 56.
5. THE CONTRACTOR MAY DISPOSE OF ALL NON–FRIABLE ROOFING MATERIALS AS CONSTRUCTION AND DEMOLITION DEBRIS.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ROOFING MATERIALS IN A NON–FRIABLE STATE IF THEY ARE TO BE DISPOSED OF AS CONSTRUCTION AND DEMOLITION DEBRIS.
7. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH NEW YORK STATE INDUSTRIAL CODE RULE SECTION 56–11.6.

ASBESTOS CONTAINING TRANSITE DUCTWORK / ASBESTOS & PCB CONTAINING LOUVER CAULK

1. THIS WORK CONSISTS OF THE DISCONNECTING AND CAPPING OF ASBESTOS CONTAINING TRANSITE DUCT LINES AND THE REMOVAL OF PCB AND ASBESTOS CONTAINING LOUVER CAULK.
2. THE TRANSITE DUCTWORK IS BEING ABANDONED IN PLACE.
3. REFER TO THE DRAWINGS FOR LOCATIONS AND COORDINATE WITH MECHANICAL DRAWINGS AND CONTRACTOR.
4. CUT METAL DUCT WORK FROM TRANSITE DUCT WORK AT INTERIOR LOCATIONS. CAP BOTH ENDS WITH INSULATED PANEL WITH SHEET METAL COVER (FURNISHED BY MECHANICAL CONTRACTOR).
5. AT THE EXTERIOR LOCATION THE CONTRACTOR IS TO REMOVE THE CAULKING AROUND THE LOUVER AS PCB/ASBESTOS. THEN CAP THE TRANSITE DUCT WORK. PCBS ARE GREATER THEN 50PPM.

ASBESTOS CONTAINING DUCT PIN MASTIC

1. THIS WORK CONSISTS OF THE DEMOLITION AND DISPOSAL OF FIBERGLASS WRAPPED METAL DUCTWORK WITH ASBESTOS MASTIC.
2. THERE IS A TOTAL OF TWO DUCT TRUNKS TO BE REMOVED.
3. THE WORK SHALL BE PERFORMED INSIDE A TWO LAYER NEGATIVE PRESSURE CONTAINMENT.
4. REMOVE THE DUCTWORK, WRAP IN TWO LAYERS OF SIX MIL POLYETHYLENE, AND LABEL WITH ASBESTOS WARNING LABELS PRIOR TO LEAVING THE WORK AREA.
5. ONCE CLEARANCE HAS BEEN ACHIEVED, THE CONTRACTOR SHALL COORDINATE CAPPING THE ENDS OF THE DUCT WITH THE MECHANICAL CONTRACTOR.

ASBESTOS CONTAINING FITTING INSULATION:

1. THIS WORK CONSISTS OF THE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING FITTING INSULATION ABOVE LAY–IN CEILING.
2. THE INSULATION IS BEING REMOVED TO FACILITATE OTHER WORK. REFER TO THE DRAWINGS FOR APPROXIMATE LOCATIONS. ALL QUANTITIES AND LOCATIONS SHALL BE VERIFIED BY THE ASBESTOS ABATEMENT CONTRACTOR PRIOR TO SUBMITTING A BID.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH INDUSTRIAL CODE RULE 56, ANY SPECIFIC VARIANCE, THE PLANS AND SPECIFICATIONS.
4. THE WORK AREA WILL BE CLEARED BY PCMs AND/OR TEMs.
5. ALL RE–INSULATION WORK SHALL BE DONE BY OTHERS.
6. ABATMENT SHALL INCLUDE THE REMOVAL OF 6–INCHES OF INSULATION, AT A MINIMUM, ON ALL SIDES OF PIPING LEADING TO AND FROM THE ACM FITTING.
7. EACH SINGLE PIPE FITTING IS QUANTIFIED AS ONE LINEAR FOOT OF MATERIAL.

KITCHEN FAN PLENUM BOX DISPOSAL

1. THIS WORK CONSISTS OF THE REMOVAL AND DISPOSAL OF KITCHEN FAN UNITS FROM THE AREA AS INDICATED ON THE HM–SERIES DRAWINGS.
2. THE UNITS ARE LINED WITH A SOUND DAMPENING MATERIAL THAT IS ASSUMED ASBESTOS CONTAINING.
3. ELECTRICAL DISCONNECTS SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR.
4. THE FAN UNIT ATTACHED TO THE BOX SHALL BE REMOVED BY THE MECHANICAL CONTRACTOR PRIOR TO START OF WORK.
5. THE ABATEMENT CONTRACTOR SHALL REMOVE EACH UNIT INSIDE A NEGATIVE PRESSURE TENT CONTAINMENT UNLESS OTHERWISE PERMITTED BY SITE SPECIFIC VARIANCE.
6. THE UNITS SHALL BE WRAPPED WITH TWO LAYERS OF POLY AND DISPOSED OF AS ASSUMED ASBESTOS CONTAINING.
7. THE ABATEMENT CONTRACTOR MAY ABATE THE MATERIAL LINING THE UNIT OR TEST THE NON–METAL MATERIALS IN LIEU OF WRAPPING AND DISPOSING THE UNIT AS ACM. THE UNITS THEMSELVES WOULD THEN BE DISPOSED OF AS NON–ASBESTOS.

ALTERNATE GC1 ASBESTOS CONTAINING DUCT INSULATION:

1. THIS WORK CONSISTS OF THE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING DUCT INSULATION FROM THE AREA AS INDICATED ON THE HM–SERIES DRAWINGS.
2. THE INSULATION IS BEING REMOVED TO FACILITATE OTHER WORK. REFER TO THE DRAWINGS AND COORDINATE WITH THE ARCHITECT AND ENGINEER FOR LOCATIONS. ALL QUANTITIES AND LOCATIONS SHALL BE VERIFIED BY THE ASBESTOS ABATEMENT CONTRACTOR PRIOR TO SUBMITTING A BID.
3. THE ABATEMENT INCLUDES THE EIGHT (8) MUDDED FITTINGS RUNNING ADJACENT TO THE DUCT.
4. THE CEILING TILES DIRECTLY BENEATH THE ASBESTOS DUCT INSULATION SHALL BE REMOVED AND DISPOSED OF ASBESTOS CONTAMINATED.
5. THE ABATEMENT CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF THE CEILING TILES AND GRID DISPOSED OF OR DISPLACED AS PART OF THE ABATEMENT.
6. RE–INSULATION OF THE DUCTWORK IS THE RESPONSIBILITY OF THE ABATEMENT CONTRACTOR.
7. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH INDUSTRIAL CODE RULE 56, ANY SPECIFIC VARIANCE, THE PLANS AND SPECIFICATIONS.

PCB REMEDIATION – GENERAL

1. THE BUILDING HAS SEALANTS THAT CONTAIN REGULATED POLYCHLORINATED BYPHENOLS (PCBS). THE PCBS ARE CATEGORIZED AND MANAGED INTO TWO GROUPS. THE FIRST GROUPS IS SEALANTS THAT CONTAIN PCBS AT LEVELS OF 50 PARTS PER MILLION (PPM) OR MORE: THE SECOND GROUP IS SEALANTS THAT CONTAIN PCBS AT LEVELS LESS THAN 50PPM.
2. THIS WORK ALSO INVOLVES THE REMOVAL AND DISPOSAL OF SEALANTS THAT CONTAIN BOTH PCB'S AND ASBESTOS.
3. ALL WORK SHALL BE COMPLETED PER PCB REMEDIATION SPECIFICATIONS 028410 AND ASBESTOS ABATEMENT SPECIFICATIONS 028071.
4. IN GENERAL, THE WORK AND SPECIFICATIONS REQUIRES WORKER TRAINING, WORK AREA PREPARATION, WORK METHODS, SURFACE DECONTAMINATION AFTER CAULK REMOVAL, ENCAPSULATION OR ENCLOSURE OF SURFACES TO REMAIN, AND DISPOSAL. THE SPECIFICATION PROVIDES DETAILS ON THESE ITEMS BASED ON WHAT LEVEL OF PCBS ARE PRESENT IN THE SEALANTS.

PCB REMEDIATION – SEALANTS 50PPM OR GREATER IN CONCENTRATION

1. THE FOLLOWING BUILDING SEALANTS CONTAIN POLYCHLORINATED BYPHENOLS (PCBS) AT LEVELS ABOVE OR EQUAL TO 50 PARTS PER MILLION (PPM): WINDOW GLAZING SEALANTS; SEE DRAWINGS FOR LOCATIONS.
2. THE SEALANTS ARE REGULATED UNDER THE TOXIC SUBSTANCE CONTROL (TSCA) AND 40CFR 761 REGULATIONS AS A PCB BULK REMEDIATION WASTE, AND REGULATED BY NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AS REGULATED HAZARDOUS WASTE UNDER 6 NYCRR PART 371, 371.4 (E).
3. THE SEALANTS SHALL BE REMOVED, DISPOSED OF AND SURFACES TO REMAIN AND BE REUSED (I.E. BRICK FAÇADE) REQUIRE TO BE DECONTAMINATED AND ENCAPSULATED OR ENCLOSURE PER PCB REMEDIATION SPECIFICATIONS.
4. WHEN SEALANTS CONTAIN ASBESTOS AND PCBS AT LEVELS OVER 50 PPM, ALL REGULATIONS AND SPECIFICATION REQUIREMENTS SHALL BE ADHERED TO. WASTE SHALL BE A REGULATED HAZARDOUS WASTE "B007", PCB CONTAINING AND ASBESTOS CONTAINING.

CONTRACTORS' COORDINATION NOTE:

ALL CONTRACTORS ARE REQUIRED TO REVIEW THE CONTRACT DRAWINGS FOR ALL TRADES AND DETERMINE NECESSARY COORDINATION BETWEEN TRADES PRIOR TO BIDDING. ANY DISCREPANCIES, COMMENTS, OR QUESTIONS ARE TO BE SUBMITTED TO THE ENGINEER BY RFI.

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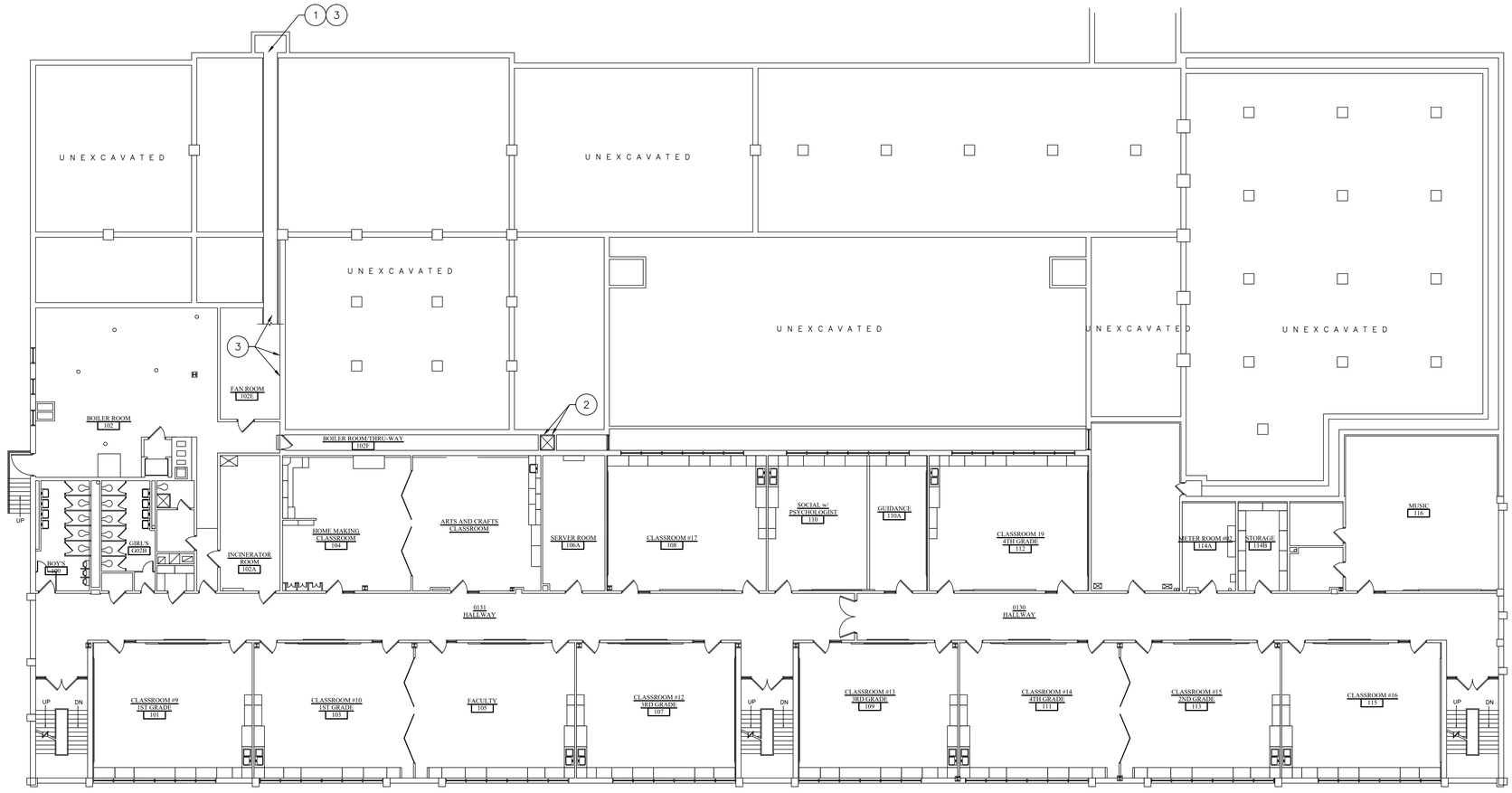
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
HAZARDOUS MATERIAL NOTES

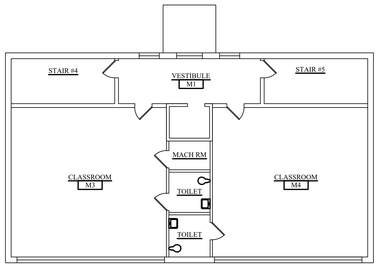
SHEET NO.
HM-100

FILE PATH –N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 (DIR# 10875 YPS MLK\CAD\ABATEMENT–2020\HM 100s GC.dwg



1 FIRST FLOOR

Scale: 3/32" = 1'



KEY
SEE NOTES ON HM–100

1. ABATE ASBESTOS & PCB CONTAINING LOUVER CAULK
2. ABATE ASBESTOS CONTAINING DUCT PIN MASTIC
3. CAP ASBESTOS CONTAINING TRANSITE DUCT WORK
4. OPEN WALL CHASES AND ABATE FITTINGS WITHIN
- F. FAN UNIT PLENUM BOX REMOVAL
- #. NUMBER OF ASBESTOS CONTAINING PIPE FITTINGS TO BE ABATED
- ABATE MULTIPLE LAYERS OF FLOOR TILE AND MASTIC
- ASBESTOS PITCH POCKET TAR ABATEMENT
- ALTERNATE–1 ABATE 250 SQUARE FEET ASBESTOS CONTAINING DUCT INSULATION ABOVE LAY–IN CEILING

- A. PCB CONTAINING JOINT CAULK SEALANT (PCB CONCENTRATION LESS THAN 50PPM)
- B. PCB CONTAINING SOFFIT CAULK SEALANT (PCB CONCENTRATION LESS THAN 50PPM)
- C. PCB CONTAINING PANEL CAULK SEALANT (PCB CONCENTRATION GREATER THAN 50PPM)

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YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School

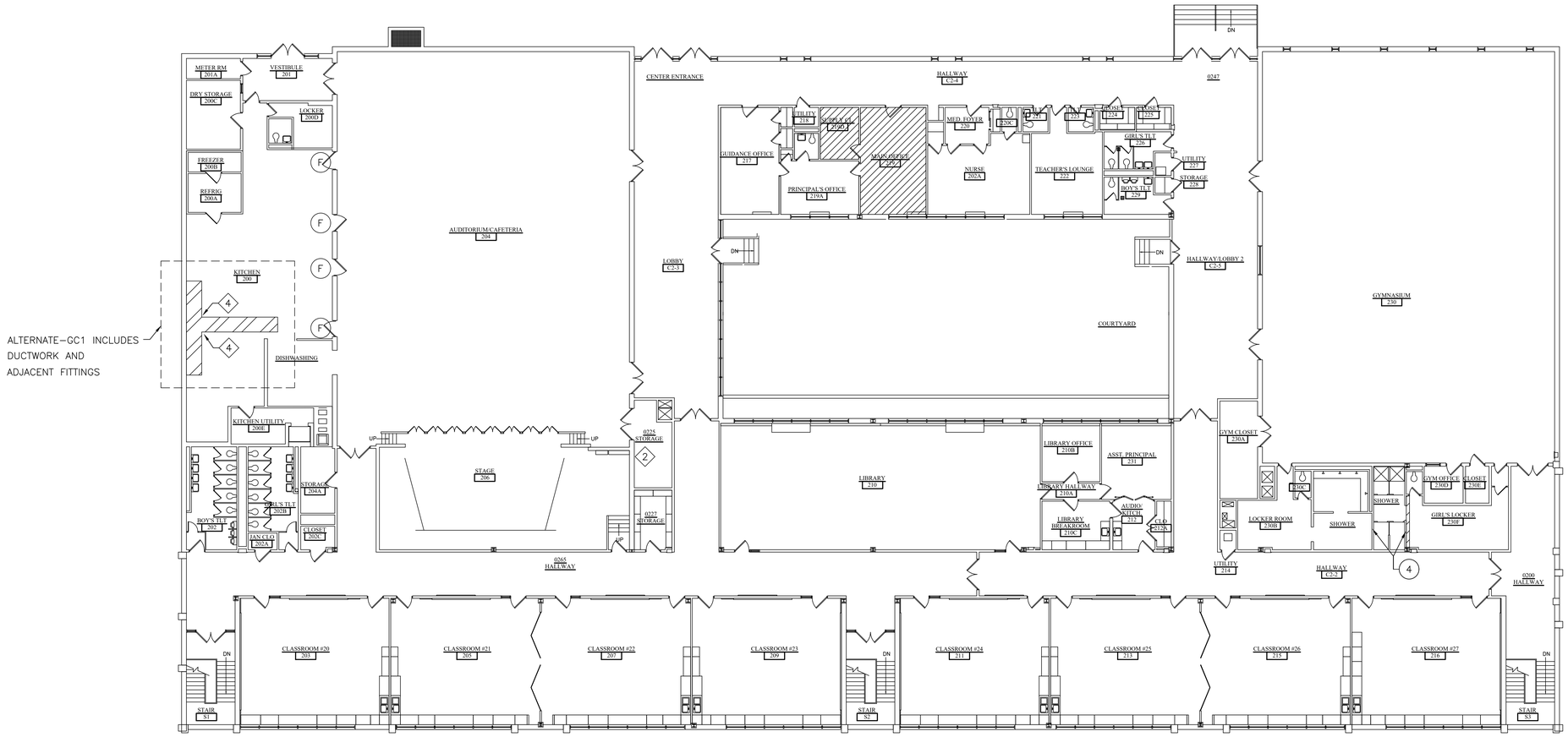
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
FIRST FLOOR ABATEMENT PLAN

SHEET NO.
HM-101

FILE PATH – N:\ – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\ABATEMENT– 2020\HM 100s CC.dwg



1 SECOND FLOOR

Scale: 3/32" = 1'

KEY
SEE NOTES ON HM–100

1. ABATE ASBESTOS & PCB CONTAINING LOUVER CAULK
2. ABATE ASBESTOS CONTAINING DUCT PIN MASTIC
3. CAP ASBESTOS CONTAINING TRANSITE DUCT WORK
4. OPEN WALL CHASES AND ABATE FITTINGS WITHIN
- F. FAN UNIT PLENUM BOX REMOVAL
- #. NUMBER OF ASBESTOS CONTAINING PIPE FITTINGS TO BE ABATED
- ABATE MULTIPLE LAYERS OF FLOOR TILE AND MASTIC
- ASBESTOS PITCH POCKET TAR ABATEMENT
- ALTERNATE–1 ABATE 250 SQUARE FEET ASBESTOS CONTAINING DUCT INSULATION ABOVE LAY–IN CEILING

- A. PCB CONTAINING JOINT CAULK SEALANT (PCB CONCENTRATION LESS THAN 50PPM)
- B. PCB CONTAINING SOFFIT CAULK SEALANT (PCB CONCENTRATION LESS THAN 50PPM)
- C. PCB CONTAINING PANEL CAULK SEALANT (PCB CONCENTRATION GREATER THAN 50PPM)

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ENGINEER STAMP:
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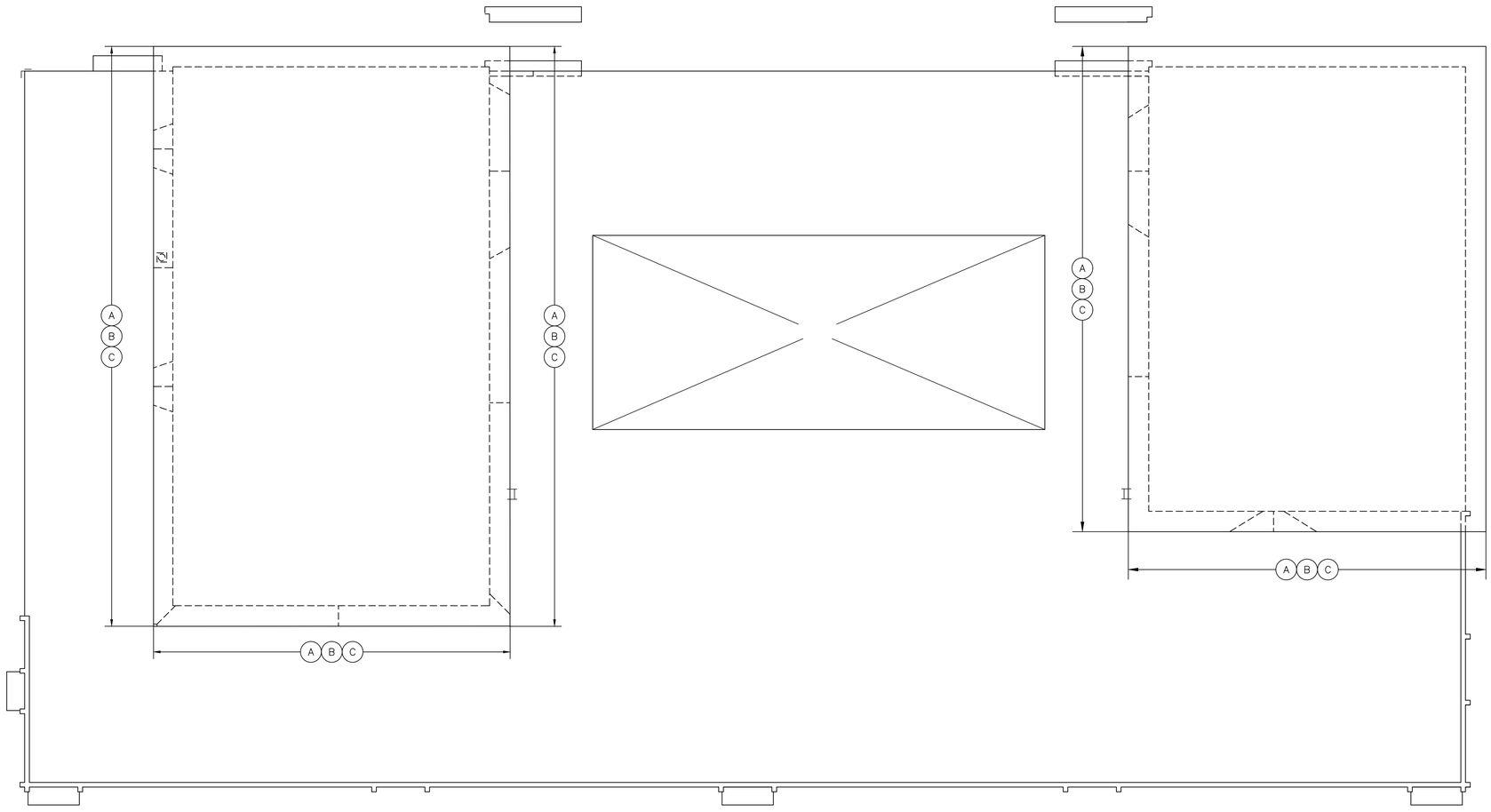
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
SECOND FLOOR ABATEMENT PLAN

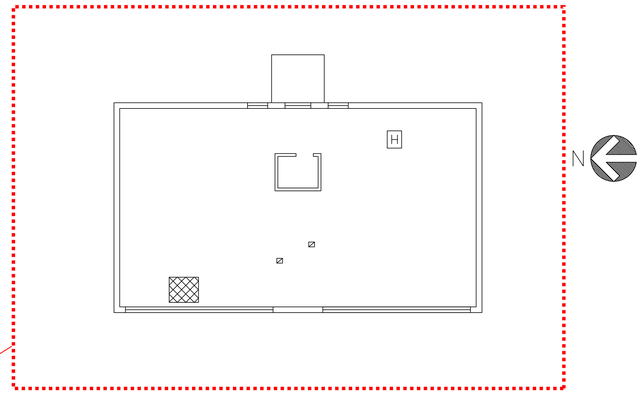
SHEET NO.
HM-102

FILE PATH –N:\Y – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CP# 10875 YPS MLK\CAD\ABATEMENT–2020\VIM 100s GC.dwg



1 ROOF PLANS

Scale: 3/32" = 1'



NOTE:
ALL WORK FOR THE ANNEX ROOF TO BE SUBMITTED AS A SEPARATE BID. SEE SPECIFICATIONS.

KEY
SEE NOTES ON HM–100

1. ABATE ASBESTOS & PCB CONTAINING LOUVER CAULK
2. ABATE ASBESTOS CONTAINING DUCT PIN MASTIC
3. CAP ASBESTOS CONTAINING TRANSITE DUCT WORK
4. OPEN WALL CHASES AND ABATE FITTINGS WITHIN
- F FAN UNIT PLENUM BOX REMOVAL
- # NUMBER OF ASBESTOS CONTAINING PIPE FITTINGS TO BE ABATED
- ABATE MULTIPLE LAYERS OF FLOOR TILE AND MASTIC
- ASBESTOS PITCH POCKET TAR ABATEMENT
- ALTERNATE–1 ABATE 250 SQUARE FEET ASBESTOS CONTAINING DUCT INSULATION ABOVE LAY–IN CEILING

- A PCB CONTAINING JOINT CAULK SEALANT (PCB CONCENTRATION LESS THAN 50PPM)
- B PCB CONTAINING SOFFIT CAULK SEALANT (PCB CONCENTRATION LESS THAN 50PPM)
- C PCB CONTAINING PANEL CAULK SEALANT (PCB CONCENTRATION GREATER THAN 50PPM)

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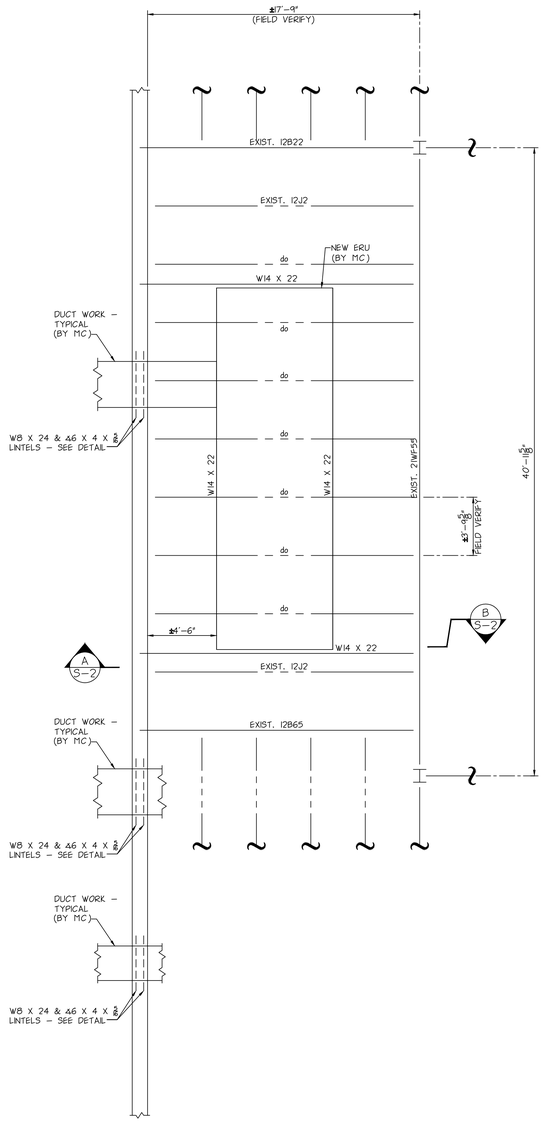
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-223-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ROOF ABATEMENT PLAN

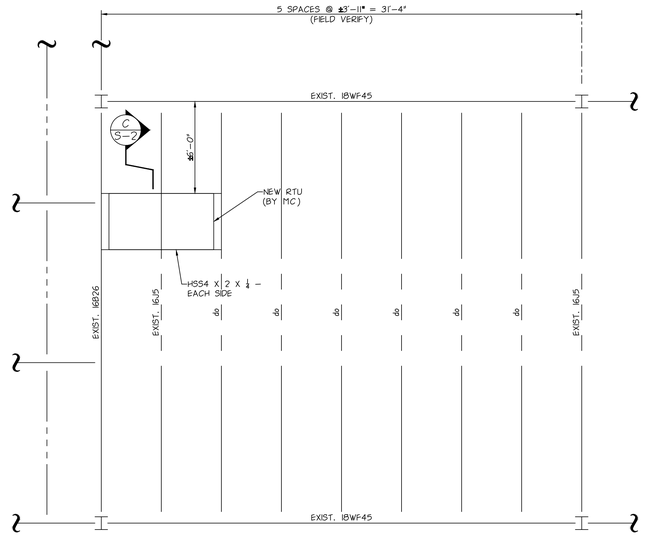
SHEET NO.
HM-103

FILE PATH –N: \ – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 DIR# 10875 YPS MLK\CAD\ABATEMENT– 2020\YM 100s DC.dwg



ERU/1 FRAMING PLAN

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



RTU/2 FRAMING PLAN

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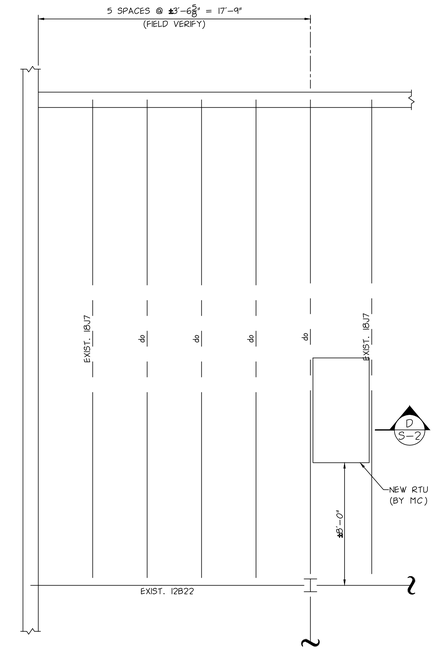
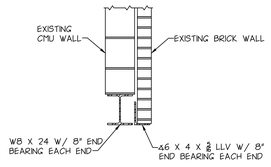


RTU/3 FRAMING PLAN

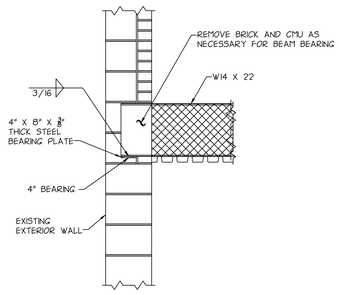
SCALE: 1/4" = 1'-0"



COORDINATE LINTEL LENGTH AND LOCATION W/ ERU-1 DUCT LOCATIONS

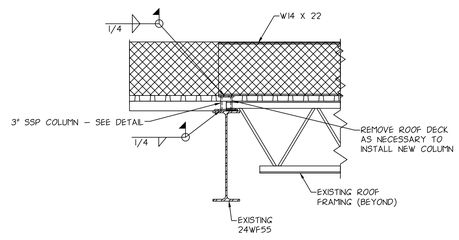
LINTEL DETAIL

SCALE: 3/4" = 1'-0"



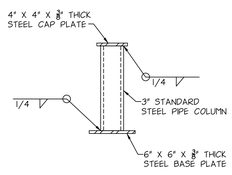
SECTION A S-2

SCALE: 3/4" = 1'-0"



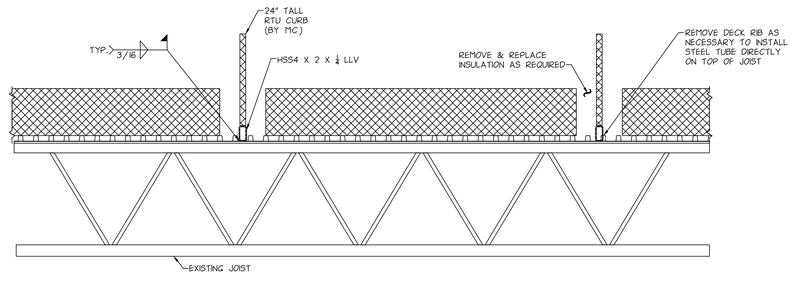
SECTION B S-2

SCALE: 3/4" = 1'-0"



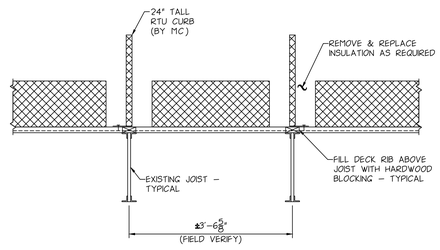
COLUMN DETAIL

SCALE: 1 1/2" = 1'-0"



SECTION C S-2

SCALE: 3/4" = 1'-0"



SECTION D S-2

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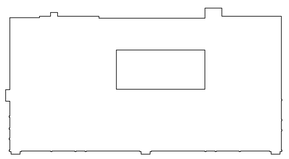

KEY-PLAN

SCALE: NONE

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ENGINEER STAMP:

YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF REPLACEMENT & INTERIOR UPGRADES
WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School

135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	**12/07/2023**
REVISION	DATE
DRAWN BY	
CHECKED BY	JE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE

RTU FRAMING PLANS, SECTIONS AND DETAILS

SHEET NO.

S-1

FILE PATH - N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 DIR# 10875 YPS MLK\CAD\Part3.Interior\y19mlk01s-1.dwg

ABBREVIATIONS

&	AND
ACU	AIR CONDITIONING UNIT (S)
ACM	ASBESTOS CONTAINING MATERIAL
ACT	ACOUSTICAL CEILING TILE
ACW	ASBESTOS CONTAINING WASTE
AD	ACCESS DOOR
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLER UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
AMB	AMBIENT
AMP	AMPERE
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
A.R.	AREA OF REFUGE
ARCH	ARCHITECTURAL
AVG	AVERAGE
BDD	BACK DRAFT DAMPER
BFW	BOILER FEED WATER
BHP	BRAKE HORSE POWER
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BTUH	BRITISH THERMAL UNITS/HOUR
BU	BUILT UP
BUR	BUILT UP ROOFING
C	COMMON
CV	COEFFICIENT, VALVE FLOW
CB	CATCH BASIN
C.C	COOLING COIL
CEIL OR CLG	CEILING
CER/CEG	CEILING EXHAUST REGISTER/GRILLE
CFM	CUBIC FEET PER MINUTE
C.H	CEILING HEIGHT
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
C.J.	CONTROL JOINT
CL	CENTER LINE
CLG WTR	COOLING WATER
CLOS	CLOSET
CMP	CORRUGATED METAL PIPE
C.O	CLEAN OUT
COL	COLUMN
COMPR	COMPRESSOR
CONC	CONCRETE
COND	CONDENSER
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CONV	CONVECTOR
CP	CONDENSATE PUMP
CRR/CRG	CEILING RETURN REGISTER/GRILLE
CRU	COMPUTER ROOM UNIT
CSD	CEILING SUPPLY DIFFUSER
CT	CERAMIC TILE
C.TWR.	COOLING TOWER
CU	CONDENSER UNIT
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D/DIA	DIAMETER
DB	DRY BULB TEMPERATURE
dB	DECIBEL
DC	DUST COLLECTOR
DEG	DEGREE
DEMO	DEMOLITION
D.F.	DRINKING FOUNTAIN
D.H.	DOUBLE HUNG
DIM	DIMENSION
DN	DOWN
D.O	REPEAT/DOOR OPENING
DP	DEEP
DR	DOOR
DWG	DRAWING
DX	DIRECT EXPANSION
E	EAST
EA	EACH
EAT	ENTERING AIR TEMPERATURE
E–CONTR.	ELECTRICAL CONTRACTOR
E–CUSP.	EXISTING CUSPIDOR
EDB	ENTERING DRY BULB
E.D.F	EXISTING DRINKING FOUNTAIN
EDR	EQUIVALENT DIRECT RADIATION
E.E.W.	EMERGENCY EGRESS WINDOW
E.F	EXHAUST FAN
EFE	EXISTING FIRE EXTINGUISHER
E.H.	EXHAUST HOOD
E.J	EXPANSION JOINT
EQ	EQUAL
ELEC	ELECTRICAL
EL/ELEV	ELEVATION
E.M.H.	ELEMENTARY SCHOOL MOUNTING HEIGHT
ENCL.	ENCLOSURE
ENTR.	ENTRANCE
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ETC	AND SO FORTH
EVAP	EVAPORATOR
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXH.A	EXHAUST AIR
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FAHRENHEIT
F.A.I.	FRESH AIR INTAKE
FCU	FAN COIL UNIT
F.D.	FLOOR DRAIN
F.DAMP.	FIRE DAMPER
F.E.	FIRE EXTINGUISHER
F.G.	FIBER GLASS
FIN	FINISH
FIXT	FIXTURE
FHC	FIRE HOSE CABINET
FL/FLR	FLOOR
FTG	FOOTING
FOB	FLAT ON BOTTOM
FOG	FUEL OIL GAUGE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOT	FLAT ON TOP
F.P.	FIRE PROOF
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED POLYSTYRENE
FT	FOOT OR FEET
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
G.C	GENERAL CONSTRUCTION
GEN	GENERAL
GL	GLASS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS
G.V.	GAS VALVE
GYP. BD	GYPSUM BOARD
GYP. FB	GYPSUM FIBERBOARD
H	HEIGHT
H.B.	HOSE BIB
H–CONTR	HEATING, VENTING, AND AIR CONDITIONING CONTRACTOR
H.C	HOLLOW CORE
H/C	HEATING/COOLING
HD	HEAD
HEAT.CL.	HEATING COIL
HG	REFRIGERANT HOT GAS
H.M	HOLLOW METAL
HORIZ	HORIZONTAL
H.P	HIGH POINT
HPS	HIGH PRESSURE STEAM
H.PWR	HORSE POWER
HR	HOUR (S)
HT	HEAT
HTHW	HIGH TEMPERATURE HOT WATER
HTR	HEATER
HV	HEATING/VENTILATION UNIT
H.W.C.	HIGH IMPACT WALL COVERING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	FREQUENCY(CYCLES PER MINUTE)
ID	INSIDE DIAMETER
IEF	IN–LINE EXHAUST FAN
INT	INTERIOR
INSUL	INSULATION
INV	INVERT
IN	INCH
J.C	JANITOR'S CLOSET
JT	JOINT
J.B	JUNCTION BOX
KIT	KITCHEN
KW	KILOWATT
K.M.H.	KINDERGARTEN MOUNTING HEIGHT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LAM	LAMINATE
LAV	LAVATORY
LBS/#	POUNDS
L.C.C	LEAD COATED COPPER
LDR	LEADER
LF	LINEAR FEET
LIQ	LIQUID
LL	LIVE LOAD
LP	LOW POINT
LPS	LOW PRESSURE STEAM
LRG	LINEAR RETURN GRILLE
LSD	LINEAR SUPPLY DIFFUSER
LWT	LEAVING WATER TEMPERATURE
M	MIRROR
MAX	MAXIMUM
MAT	MATERIAL
MBH	BTU PER HOUR (THOUSAND)
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MPS	MEDIUM PRESSURE STEAM
MS	MARBLE SADDLE
MH	MAN HOLE
MTD	MOUNTED
MTL	METAL
N	NORTH
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
N.I.C	NOT IN CONTRACT
NO (S)	NUMBER(S)
N.OPEN	NORMALLY OPEN
N.T.S	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
ODR	OPEN DUCT RETURN
OF	OUTSIDE FACE
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE
P	PUMP(IN–LINE OR BASE MOUNTED)
PART	PARTIAL
P–CONTR	PLUMBING CONTRACTOR
PB	PANEL BOX
PCC	POWER CHARGING CABINET
PD	PRESSURE DROP
PH	PENTHOUSE
PLT	PLATE
PLUMB	PLUMBING
PLYWOOD	PLYWOOD
PNL	PANEL
PNT	PAINT
PREFAB	PREFABRICATED
PRESS	PRESSURE
PRSC	PROJECTION SCREEN
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
QT	QUARRY TILE
QTY	QUANTITY
R	RISER/RADIUS
RA	RETURN AIR
RAD	RADIATION
RD	ROOF DRAIN
REF	ROOF EXHAUST FAN
REINF	REINFORCED
REQ'D	REQUIRED
RH	RELATIVE HUMIDITY
RO	ROUGH OPENING
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S	SINK
SA	SUPPLY AIR
SAN	SANITARY
SCHED	SCHEDULE
SD	SMOKE DETECTOR
S.DMPR	SMOKE DAMPER
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILIAR
SP	STATIC PRESSURE
SPEC(S)	SPECIFICATION (S)
SQ	SQUARE
SQ FT	SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STM	STEAM
STOR	STORAGE
STRUCT	STRUCTURAL
SUCT	SUCTION
SUSP	SUSPENDED
T	TREAD/TOILET
TCP	TEMPERATURE CONTROL PANEL
T.D.	TRENCH DRAIN
T.DIFF.	TEMPERATURE DIFFERENCE
TEL	TELEPHONE
TEMP	TEMPERED
TEMPR.	TEMPERATURE
THK	THICK
T.O.	TRIMMED OPENING
T.O.C.	TOP OF CURB
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF STEEL
TSP	TOTAL STATIC PRESSURE
T'STAT	THERMOSTAT
TYP	TYPICAL
U	URINAL
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UNFIN	UNFINISHED
UV	UNIT VENTILATOR
V	VOLT
VAV	VARIABLE AIR VOLUME
V.C.T	VINYL COMPOSITION TILE
VD	VOLUME DAMPER
VEL	VELOCITY
VEST	VESTIBULE
V.I.F	VERIFY IN FIELD
VLV	VALVE
VOL	VOLUME
V.P.	VISION PANEL
V.W.C.	VINYL WALL COVERING
W	WOMEN/WIDTH/WASHER
W/	WITH
WB	WET BULB
W.C.	WATER CLOSET
WD	WOOD
WEF	WALL EXHAUST FAN
WER/WEG	WALL EXHAUST REGISTER/GRILLE
'WG'	INCHES OF WATER, GAGE (PRESSURE)
W.G.	WIRE GLASS
WK	WORK
W.I.	WROUGHT IRON
W.P.	WATER PROOF
WPD	WATER PRESSURE DROP
W.R.	WATER RESISTANT
WRR/WRG	WALL RETURN REGISTER/GRILLE
WSR/WSG	WALL SUPPLY REGISTER/GRILLE
WTG	WALL TRANSFER GRILLE
WTR	WATER
W.W.F.	WELDED WIRE FABRIC
W.W.M.	WELDED WIRE MESH
YD	YARD DRAIN

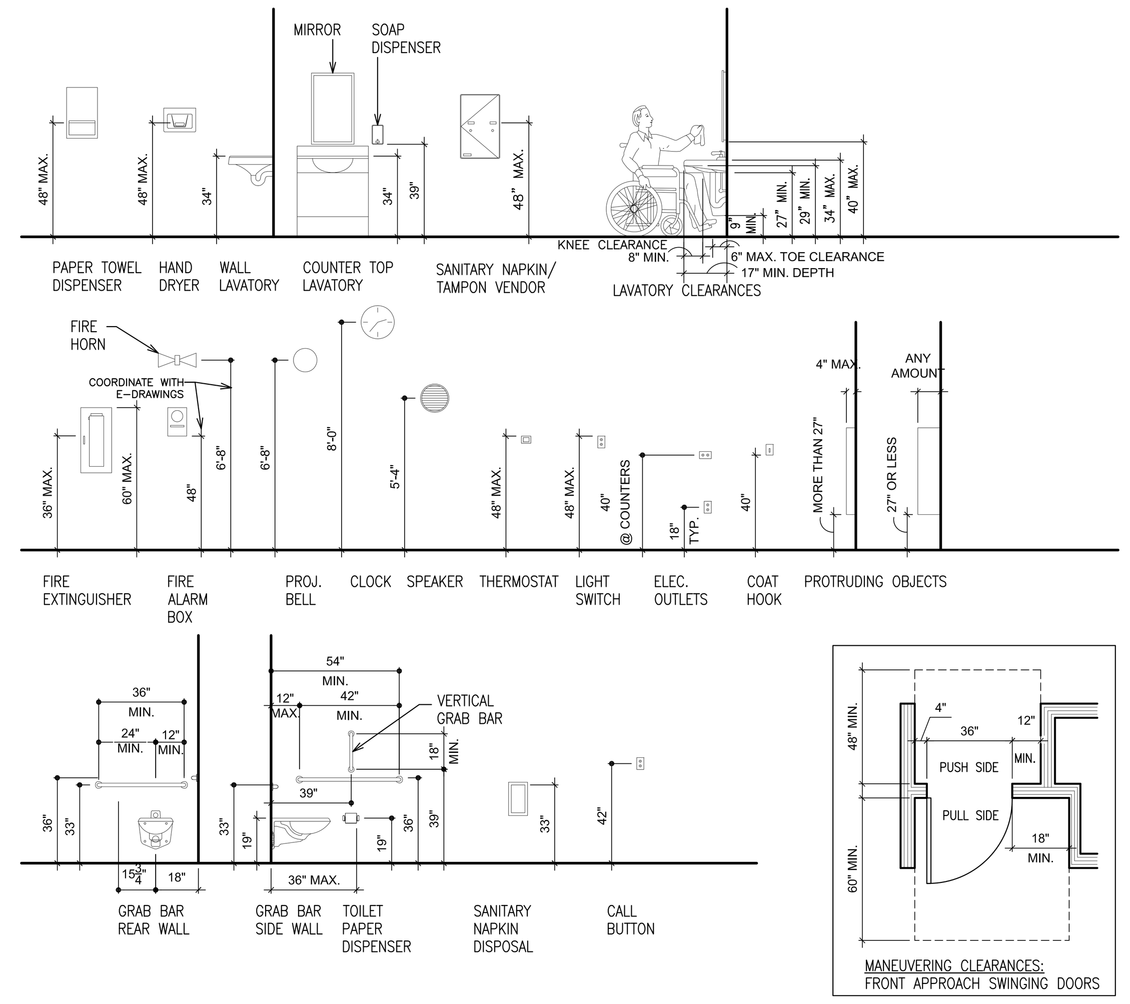
GRAPHIC LEGEND

- CLASSROOM 100 — ROOM NAME & NUMBER
- 100 — DOOR NUMBER
- ELEVATION KEY
- INTERIOR WALL INDICATIONS
- CW — WINDOW TYPE
- J1 — REMOVAL/WORKSCOPE NOTE
- REVISION MARK
- DETAIL NO. / DWG. NO. — DETAIL KEY
- WALL TYPE
- EXTERIOR ELEVATION KEY
- FLUSH — FLUSH THRESHOLD
- 5'–0" ø HANDICAPPED TURNING RADIUS
- REMOVE EXISTING CONSTRUCTION
- EXISTING CONSTRUCTION
- NEW WALL CONSTRUCTION
- COLUMN GRID LINES
- EXISTING COLUMN DESIGNATION
- BUILDING/WALL SECTION/DETAIL
- REFERENCE POINT
- HIDDEN LINE BELOW
- HIDDEN LINE ABOVE OR BEYOND
- CENTERLINE OR N.I.C. LINE
- EXISTING DOOR INDICATES DOOR NUMBER (SEE DOOR SCHEDULE)
- NEW DOOR INDICATES DOOR NUMBER (SEE DOOR SCHEDULE)

MATERIALS LEGEND

- CONCRETE
- CONCRETE MASONRY UNITS
- BRICK
- STONE
- METALS
- COMPACTED GRAVEL
- EARTH/UNDISTURBED SOIL
- DRAINAGE BOARD
- PARTICLE BOARD
- PLYWOOD
- ACOUSTICAL TILE
- CONTINUOUS WOOD FRAMING THROUGH MEMBER
- WOOD FRAMING THROUGH INTERRUPTED MEMBER
- FINISHED WOOD
- BATT INSULATION
- RIGID INSULATION

MOUNTING HEIGHTS FOR ACCESSIBLE ITEMS



CODE INFORMATION

OCCUPANCY CLASSIFICATION: EDUCATIONAL: GROUP E

CONSTRUCTION CLASSIFICATION TYPE II–B

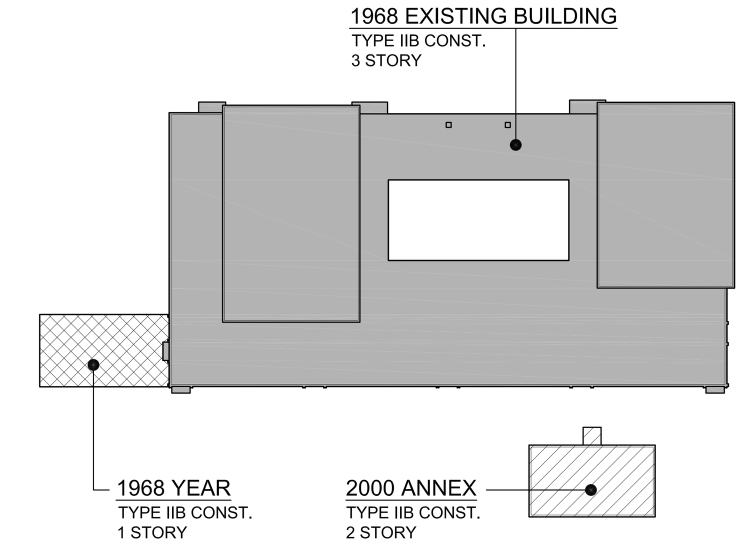
LEVEL OF ALTERATION: LEVEL 2

CLIMATE ZONE: 4

BASIC WIND SPEED: 120 MPH

APPLICABLE CODE STANDARDS:

1998 MANUAL OF PLANNING STANDARDS FOR SCHOOLS
2020 BUILDING CODE OF NEW YORK STATE (IBC 2018 WITH AMENDMENTS)
ICC A117.1 2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
2020 ENERGY CONSERVATION CODE OF NEW YORK STATE (IECC 2018 WITH AMENDMENTS)
2020 FIRE CODE OF NEW YORK STATE (IFC 2018 WITH AMENDMENTS)
2020 MECHANICAL CODE OF NEW YORK STATE (IMC 2018 WITH AMENDMENTS)
2020 PLUMBING CODE OF NEW YORK STATE (IPC 2018 WITH AMENDMENTS)
2020 INTERNATIONAL EXISTING BUILDING CODE OF NEW YORK STATE (IEBC 2018 WITH AMENDMENTS)
2017 NATIONAL ELECTRICAL CODE (NFPA 70 WITHOUT AMENDMENTS)".



1 ADDITION KEY PLAN
SCALE: N.T.S.

GENERAL NOTES

THE FOLLOWING NOTES SHALL APPLY THROUGHOUT. EXCEPTIONS ARE SPECIFICALLY NOTED ON EACH DRAWING:

1. ALL DETAILS AND/OR PART OF DETAILS ARE SIMILAR FOR SIMILAR LOCATIONS IN ALL OR PART OF THE DETAIL.
2. COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK/PROJECT.
3. INDICATED DIMENSIONS ARE TO:
   A. FACE OF MASONRY OR CONCRETE AND FACE OF FINISH TO FINISH ARE EXACT.
   B. CENTER LINES.
4. DRAWINGS ARE NOT TO BE SCALED. USE DIMENSIONS ONLY. ALL DIMENSIONS AND CONDITIONS SHOWN AND ASSUMED ON THE DRAWINGS MUST BE VERIFIED AT THE SITE BY THE CONTRACTOR BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK. ANY DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE AUTHORITY. NO CHANGE IN DRAWINGS OR SPECIFICATIONS IS PERMISSIBLE WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT AND ENGINEER. NO WORK SHALL PROCEED UNTIL SUCH DISCREPANCY HAS BEEN RECTIFIED.
5. ANY VARIATION FROM CONDITIONS SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. AFFECTED WORK SHALL NOT PROCEED UNTIL CLARIFICATION HAS BEEN RECEIVED.
6. ALL WORK OF THIS CONTRACT SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE BUILDING CODE NEW YORK STATE AND REGULATIONS OF OTHER AGENCIES HAVING JURISDICTION ON THE WORK OF THIS CONTRACT.
7. ALL WORK ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK WHETHER STATED OR NOT EXCEPT WHERE SPECIFICALLY NOTED AS "EXISTING TO REMAIN".
8. DISCREPANCIES AND OMISSIONS ON DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IN WRITING FOR CLARIFICATION.
9. SET ALL WORK STRAIGHT, PLUMB AND LEVEL OR WITH INDICATED SLOPE.
10. THE CONTRACTOR SHALL USE THE APPROVED STANDARDS: A.I.S.C. FEDERAL, U.S., ETC. STANDARDS OF THEIR TRADES. ALL CONSTRUCTION SHALL BE PERFORMED TO THESE STANDARDS.
11. IF AMBIGUITIES EXIST IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL INCLUDE IN HIS BID THE MORE EXPENSIVE MATERIAL OR METHOD OF WORK.
12. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF DEBRIS. THE CONTRACTOR SHALL KEEP WORK SITE FREE FROM DEBRIS AND ACCUMULATED REFUSE, AND SHALL HAVE SOLE RESPONSIBILITY FOR PROTECTING ALL DANGEROUS AREAS FROM ENTRY BY UNAUTHORIZED PARTIES. SITE SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
13. LARGE SCALE DETAILS HAVE PRECEDENCE, HOWEVER WORK INDICATED ON SMALL SCALE DRAWINGS SHALL NOT BE OMITTED. SIMILARLY, NOTES TAKE PRECEDENCE OVER SCHEDULES, PIPING AND WIRE DIAGRAMS. HOWEVER, WORK SHOWN OR DESCRIBED BY OTHER METHODS SHALL NOT BE OMITTED.
14. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED OR EXPOSED SURFACES DUE TO CONTRACT WORK. ALL NEWLY INSTALLED, PATCHED WORK AND ALL AFFECTED AREAS SHALL BE PAINTED. ALL PAINTING WORK SHALL BE PERFORMED TO COVER THE ENTIRE HORIZONTAL OR VERTICAL SURFACE TO THE CLOSEST CORNER IN ALL FOUR DIRECTIONS. COLOR TO MATCH EXISTING CONDITIONS.
15. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW MATERIALS AT NO ADDITIONAL COST TO THE OWNER FOR THE FOLLOWING CONDITIONS:
   A) TO FURNISH THE WORK OF THIS CONTRACT IN WORKMANLIKE MANNER.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS AND OFF ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.
17. THE CONTRACTOR SHALL INCLUDE ALL PROPRIETARY AND ASSOCIATED SUPPLEMENTARY WORK TO PROVIDE A COMPLETE AND FINISHED INSTALLATION.
18. WHERE MANUFACTURER'S NAMES AND PRODUCT NUMBERS ARE INDICATED ON DRAWINGS, IT SHALL BE CONSTRUCTED TO MEAN THE ESTABLISHMENT OF QUALITY AND PERFORMANCE STANDARDS OF SUCH ITEMS. ALL OTHER PRODUCTS MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL IN ACCORDANCE TO CONTRACT DOCUMENT REQUIREMENT BEFORE THEY SHALL BE DEEMED EQUAL.
19. FIRESTOPPING SHALL BE INSTALLED AT ALL PENETRATIONS OF FIRE RATED CONSTRUCTION AS PER SPECIFICATIONS.
20. PROVIDE GUARDS, RAILS, BARRICADES, FENCES, SIDEWALK SHEDS, CATCH PLATFORMS, DECKING, NIGHT LIGHTING, ETC., AS REQUIRED. TO PROVIDE ADEQUATE PROTECTION.
21. THE CONTRACTOR SHALL, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR REQUIRED INSPECTIONS, PERMIT(S), FEES, LICENSE AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
22. ADDITIONAL NOTES WHICH ARE APPLICABLE TO THIS PROJECT MAY BE FOUND THROUGHOUT THE CONTRACT DOCUMENTS.
23. SEISMIC RESTRAINTS SHALL BE PROVIDED, IN ACCORDANCE TO APPLICABLE CODES.
24. FOR ALL ITEMS THAT ARE REQUIRED TO HAVE SEISMIC SUPPORTS OR RESTRAINTS, SEISMIC PLANS AND SEISMIC RESTRAINT CALCULATIONS SHALL BE PREPARED, SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK ENGAGED BY THE CONTRACTOR. THE ENGINEER SHALL PROVIDE INSTALLATION SUPERVISION OF ALL SEISMIC SUPPORTS AND RESTRAINTS, UNLESS OTHERWISE NOTED.
25. REVIEW AND COORDINATE ALL CONDITIONS (INCLUDING BUT NOT LIMITED TO PENETRATIONS, FABRICATIONS, INSTALLATIONS) FOR CONFORMANCE TO THE PLANS, SPECIFICATIONS, APPLICABLE REFERENCE STANDARDS AND OTHER PROVISIONS OF THE CONTRACT DOCUMENTS, AND COORDINATE ALL WORK WITH ALL OTHER TRADES.
26. ALL WORK MUST CONFORM TO ALL CODES HAVING JURISDICTION ANY CONFLICT OF OR BETWEEN CODE, THE MORE STRINGENT CODE SHALL SUPERSEDE ALL OTHERS.
27. USE ONLY NEW MATERIALS AND EQUIPMENT, WITHOUT DEFECTS FOR THEIR INTENDED USE.
28. CONTRACTORS SHALL PROTECT ALL AREAS OF EXISTING CONSTRUCTION AND RELATED ITEMS FROM DAMAGE DURING CONSTRUCTION OPERATIONS.
29. ALL OCCUPIED PORTION OF THE SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY.
30. ALL MEASUREMENTS AND CONDITIONS TO BE VERIFIED AT THE BUILDING BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE THEREFORE.
31. ALL CONTRACTORS SHALL MEET THE FOLLOWING MINIMUM SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS.
   a) ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
   b) FENCES AROUND CONSTRUCTION SUPPLIES AND DEBRIS SHALL BE MAINTAINED.
   c) WORKERS SHALL BE REQUIRED TO WEAR PHOTO IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING ON SITE.
32. a) REMOVAL OF ALL DEBRIS SHALL BE THROUGH DESIGNATED, SEPARATED AND PROTECTED AREAS OF THE BUILDING. THERE SHALL BE NO MOVEMENT OF DEBRIS OR EQUIPMENT THROUGH OCCUPIED SPACES OF THE BUILDING.
   b) ALL OCCUPIED PARTS OF A BUILDING AFFECTED BY CONSTRUCTION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORK DAY.
33. CONTRACTOR SHALL MAKE THE BUILDING SECURE AT THE END OF EACH WORK DAY. PROVIDE TEMPORARY PLYWOOD COVERS OVER WINDOW/ DOOR OPENINGS AS REQUIRED TO SECURE BUILDING TO THE OWNERS SATISFACTION.
34. CLEANING DURING WINDOW WORK:
   –PRIOR TO START OF WINDOW WORK IN A SPACE, THE CONTRACTOR WILL MOVE ALL FURNITURE, EQUIPMENT AND MATERIALS TO A SPACE OPPOSITE IN THE ROOM FROM THE WINDOW. THE MATERIALS, EQUIPMENT AND FURNITURE WILL BE COVERED WITH SHEETING AT LEAST 1 MIL. THICK. THE MATERIALS ARE TO BE PROTECTED THROUGHOUT THE WORK. THROUGHOUT THE PROJECT, GARBAGE AND DEBRIS BOTH INSIDE AND OUTSIDE ARE TO BE CLEANED ON DAILY BASIS.
   –AT THE COMPLETION OF THE WINDOW WORK, THE MATERIALS, EQUIPMENT AND FURNITURE WILL BE MOVED BACK TO THEIR ORIGINAL LOCATION BY DISTRICT PERSONNEL.
   –THE CONTRACTOR SHALL CLEAN MATERIALS, EQUIPMENT AND FURNITURE SURFACES AND BROOM CLEANED THE FLOORS.

GENERAL REMOVAL NOTES:

1. REMOVAL DRAWINGS INDICATE ONLY MAJOR SCOPE OF REMOVALS. CONTRACTOR IS REQUIRED TO REMOVE ANY AND ALL ITEMS NOT SHOWN AS REQUIRED TO SUIT ALL NEW WORK. CONTRACTOR IS REQUIRED TO REMOVE, PROTECT AND STORE ANY AND ALL ITEMS SHOWN AS REQUIRED TO SUIT ALL NEW WORK, COORDINATE W/ OWNER FOR STORING LOCATIONS.
2. CONTRACTOR IS TO VERIFY ANY MAJOR DIMENSIONAL DEVIATIONS FROM DRAWINGS OR STRUCTURAL OBSTRUCTIONS. THESE SHALL BE BROUGHT TO THE OWNER'S REPRESENTATIVE'S ATTENTION. ALL CONTRACT DRAWINGS INDICATE APPROXIMATE DIMENSIONS AND EXISTING CONDITIONS BASED ON FIELD SURVEY AND DRAWINGS FURNISHED BY THE OWNER. VARIATIONS MAY EXIST AS TO FIELD CONDITIONS. THE COST FOR ANY SUCH VARIATIONS SHALL BE INCLUDED WITHIN THE CONTRACT BID.
3. ALL SURFACES DISTURBED BY REMOVALS SHALL BE PATCHED/REPAIRED TO MATCH EXISTING ADJACENT FINISHES, COORDINATE AND PREPARE SURFACES TO ACCOMMODATE WITH NEW FINISH ACCORDING TO SPECS AND MANUFACTURER'S RECOMMENDATIONS.
4. GENERAL CONTRACTOR SHALL FIRE STOP ALL TRADE RELATED EXISTING OR NEW PENETRATIONS THROUGH FLOORS, PARTITIONS AND WALLS AT ALL LOCATIONS WITH APPROVED MATERIALS AND SYSTEMS.
5. ALWAYS WORK IN A MANNER WHICH PROVIDES CONTINUOUS SUPPORT TO STRUCTURE ABOVE. PROVIDE APPROPRIATE LINTEL FOR ALL OPENINGS UNLESS SPECIFIED OTHERWISE.
6. REMOVE ALL WINDOW TREATMENTS AND HARDWARE WHERE WINDOWS ARE BEING REPLACED. IF REQUESTED, TURNOVER TO OWNER.
7. GENERAL CONTRACTOR TO COORDINATE REMOVALS WITH NEW WORK.
8. FOR ABATEMENT OF HAZARDOUS/ TOXIC MATERIALS REFER TO HAZARDOUS MATERIALS DRAWINGS AND SPECIFICATIONS.
9. ABATEMENT OF HAZARDOUS MATERIAL SHALL BE COORDINATED WITH REMOVAL WORK.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT/ENGINEER TO ALTER THIS DRAWING IN ANY WAY. ALTERATIONS MUST HAVE THE SEAL AFFIXED ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE. COPYRIGHT © 2019

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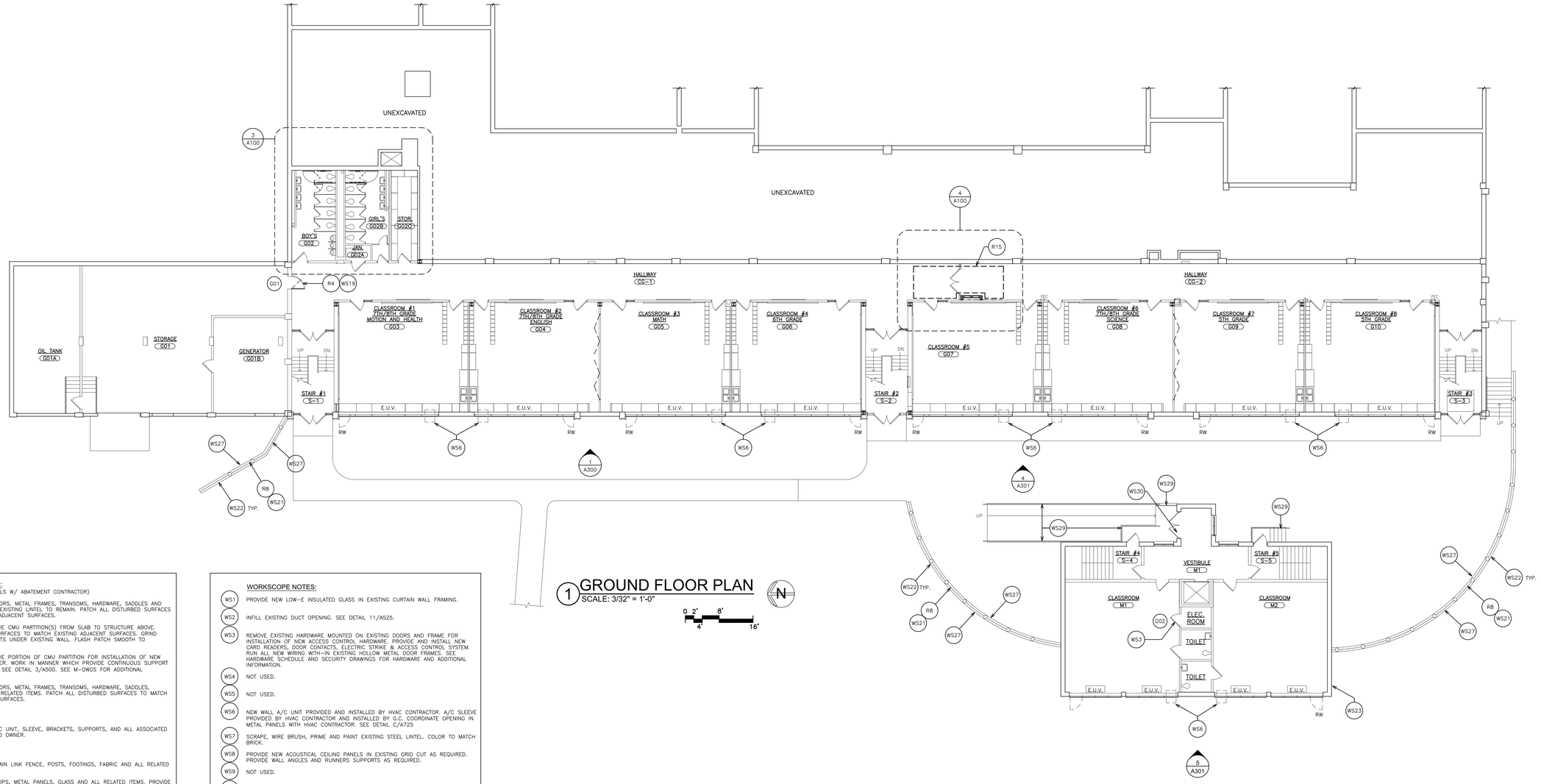
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
LOCATION MAP, ABBREVIATIONS, LEGENDS, GENERAL NOTES, GENERAL WINDOW NOTES & GENERAL REMOVAL NOTES

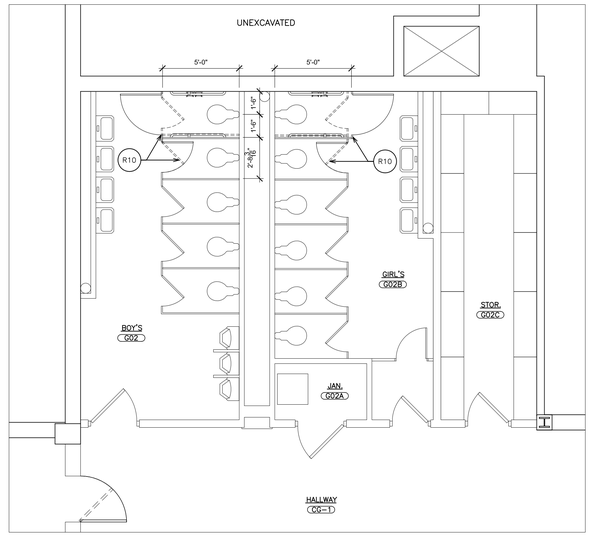
SHEET NO.
G-1

FILE PATH –I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\1–F&D\20378.03 Phase 3 HVAC\20378.00–G–1.dwg

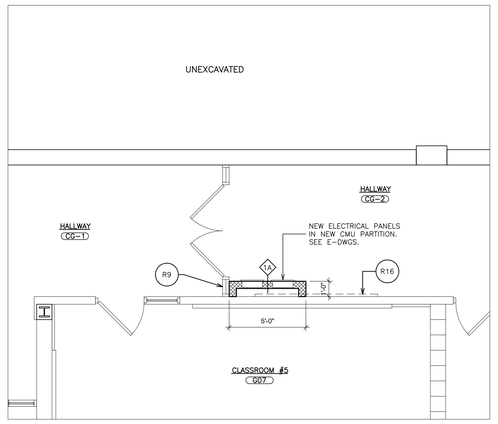


1 GROUND FLOOR PLAN
SCALE: 3/32" = 1'-0"

2 ANNEX BUILDING GROUND FLOOR PLAN
SCALE: 3/32" = 1'-0"



3 PARTIAL GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"



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

REMOVAL NOTES:
(COORDINATE REMOVALS W/ ABATEMENT CONTRACTOR)

- R1 REMOVE EXISTING DOORS, METAL FRAMES, TRANSOMS, HARDWARE, SADDLES AND ALL RELATED ITEMS, EXISTING LINTEL TO REMAIN. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R2 SAW-CUT AND REMOVE CMU PARTITION(S) FROM SLAB TO STRUCTURE ABOVE. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES. GRIND DOWN ANY HIGH SPOTS UNDER EXISTING WALL. FLASH PATCH SMOOTH TO ADJACENT SURFACES.
- R3 SAW-CUT AND REMOVE PORTION OF CMU PARTITION FOR INSTALLATION OF NEW DUCK WORK & LOUVER. WORK IN MANNER WHICH PROVIDE CONTINUOUS SUPPORT OF MASONRY ABOVE. SEE DETAIL 3/A500. SEE M-DWGS FOR ADDITIONAL INFORMATION.
- R4 REMOVE EXISTING DOORS, METAL FRAMES, TRANSOMS, HARDWARE, SADDLES, SIDE-LITES AND ALL RELATED ITEMS. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R5 NOT USED.
- R6 REMOVE EXISTING A/C UNIT, SLEEVE, BRACKETS, SUPPORTS, AND ALL ASSOCIATED ITEMS. TURN OVER TO OWNER.
- R7 NOT USED.
- R8 REMOVE EXISTING CHAIN LINK FENCE, POSTS, FOOTINGS, FABRIC AND ALL RELATED ITEMS.
- R9 REMOVE EXISTING STOPS, METAL PANELS, GLASS AND ALL RELATED ITEMS. PROVIDE AND INSTALL NEW METAL PANELS, STOP AND ALL RELATED ITEMS. PAINT TO MATCH DOOR FRAMES.
- R10 REMOVE PORTION OF EXISTING TOILET PARTITIONS, TO ENLARGE FOR AMBULATORY STALL. PROVIDE NEW TOILET PARTITIONS MATCH EXISTING ADJACENT COLOR AND TEXTURE. PROVIDE NEW GRABS BARS (2)BOBRICK #B5806-42.99 & (1)#B5806-18.99 AMBULATORY EACH STALL) & ACCESSORIES.
- R11 SAW-CUT AND REMOVE PORTION OF GYPSUM BOARD & METAL STUD PARTITION(S) FOR INSTALLATION OF NEW DOOR/FRAME. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES. FLASH PATCH SMOOTH TO ADJACENT SURFACES.
- R12 REMOVE ALL ACOUSTICAL CEILING PANELS, SUSPENSION SYSTEM. EXISTING LIGHTING & DEVICE CEILING MOUNTED TO BE REMOVED AND STORED. REINSTALLED UPON COMPLETION OF COMPLETION OF WORK.
- R13 SAW-CUT AND REMOVE PORTION OF CMU PARTITION(S) FOR INSTALLATION OF NEW DOOR/FRAME. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES. GRIND DOWN ANY HIGH SPOTS UNDER EXISTING WALL. FLASH PATCH SMOOTH TO ADJACENT SURFACES. WORK IN A MANNER THAT PROVIDES CONTINUOUS SUPPORT OF MASONRY ABOVE.
- R14 REMOVE EXISTING SUSPENDED CEILING ASSEMBLY (2x4 OR 2x2), SUSPENSION SYSTEM, PANELS, WALL ANGLES, SEISMIC TIES AND ALL RELATED ITEMS. COORDINATE WORK WITH E-CONTRACTOR. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R15 2x2 OR 2x4 SUSPENDED ACOUSTICAL CEILING. CONTRACTOR TO CAREFULLY REMOVE AND STORE EXISTING CEILING PANELS AND GRID SYSTEM AS REQUIRED TO ACCESS WORK AREAS. REPLACE ANY DAMAGED CEILING PANELS AND OR GRID. REINSTALL GRID AND PANELS UPON COMPLETION OF WORK. CONTRACTOR TO PROVIDE 2 BOXES OF EACH TYPE OF ACOUSTICAL CEILING PANELS (MATCH EXISTING) TO OWNER.
- R16 REMOVE EXISTING MARKER BOARDS, TACK BOARDS & ALL RELATED ITEMS. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R17 REMOVE EXISTING VCT FLOOR TILE, (MULTIPLE LAYER MAY EXIST) WALL BASE, TRANSITION STRIPS, MASTIC AND SUBSTRATE DOWN TO EXISTING SLAB. MECHANICALLY PROFILE 100% OF EXISTING FLOOR SLAB FOR NEW FLOOR FINISHES.
- R18 REMOVE EXISTING LIGHT FIXTURE & CEILING MOUNTED DEVICES. SEE ELECTRICAL DRAWINGS.

WORKSCOPE NOTES:

- WS1 PROVIDE NEW LOW-E INSULATED GLASS IN EXISTING CURTAIN WALL FRAMING.
- WS2 INFILL EXISTING DUCT OPENING. SEE DETAIL 11/A525.
- WS3 REMOVE EXISTING HARDWARE MOUNTED ON EXISTING DOORS AND FRAME FOR INSTALLATION OF NEW ACCESS CONTROL HARDWARE. PROVIDE AND INSTALL NEW CARD READERS, DOOR CONTACTS, ELECTRIC STRIKE & ACCESS CONTROL SYSTEM. RUN ALL NEW WIRING WITH-IN EXISTING HOLLOW METAL DOOR FRAMES. SEE HARDWARE SCHEDULE AND SECURITY DRAWINGS FOR HARDWARE AND ADDITIONAL INFORMATION.
- WS4 NOT USED.
- WS5 NOT USED.
- WS6 NEW WALL A/C UNIT PROVIDED AND INSTALLED BY HVAC CONTRACTOR. A/C SLEEVE PROVIDED BY HVAC CONTRACTOR AND INSTALLED BY G.C. COORDINATE OPENING IN METAL PANELS WITH HVAC CONTRACTOR. SEE DETAIL C/A725
- WS7 SCRAPE, WIRE BRUSH, PRIME AND PAINT EXISTING STEEL LINTEL. COLOR TO MATCH BRICK.
- WS8 PROVIDE NEW ACOUSTICAL CEILING PANELS IN EXISTING GRID CUT AS REQUIRED. PROVIDE WALL ANGLES AND RUNNERS SUPPORTS AS REQUIRED.
- WS9 NOT USED.
- WS10 NOT USED.
- WS11 NOT USED.
- WS12 PROVIDE SUSPENDED ACOUSTICAL CEILING SYSTEM & ALL RELATED ITEMS. ELECTRICAL CONTRACTOR TO REINSTALL EXISTING LIGHT FIXTURES & CEILING MOUNTED DEVICES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE DETAILS A500.
- WS13 PROVIDE SUSPENDED ACOUSTICAL CEILING SYSTEM & ALL RELATED ITEMS. ELECTRICAL CONTRACTOR TO PROVIDE NEW LIGHT FIXTURES & CEILING MOUNTED DEVICES. COORDINATE INSTALLATION. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE DETAILS A500.
- WS14 PREPARE EXISTING WALL SURFACES FOR PAINTING. FILL ALL HOLES, CRACKS, DEPRESSIONS, ETC. AND GRIND DOWN ANY HIGH SPOTS OR PROTRUSIONS. FEATHER PATCHING MATERIAL TO PROVIDE SMOOTH TRANSITION TO ADJOINING SURFACES.
- WS15 PROVIDE CEMENT-BASED SELF-LEVELING UNDERLAYMENT TO ACHIEVE FLUSH CONDITION WITH ADJACENT FLOOR(S) ON 100% FLOOR SURFACE.
- WS16 PROVIDE FLOOR FINISH. SEE FINISH SCHEDULE AND FINISH PLANS.
- WS17 PROVIDE CMU PARTITION / INFILL. TOOTHED INTO EXISTING CMU WALL. MATCH EXISTING CMU THICKNESS.
- WS18 ELECTRICAL CONTRACTOR PROVIDE AND INSTALL MAGNETIC HOLD OPEN DEVICE. COORDINATE DOOR INSTALLATION AND SWING WITH DEVISE LOCATION.
- WS19 INSTALL NEW DOOR, FRAME AND HARDWARE. SEE DOOR DETAILS & SCHEDULE.
- WS20 NOT USED.
- WS21 INSTALL NEW 6 FT. HIGH VINYL COATED CHAIN LINK FENCE & FOOTINGS. SEE DETAIL 5/A525 AND SPECIFICATIONS.
- WS22 REMOVE EXISTING SEALANT AND BACKER ROD PERIMETER JOINT. CLEAN RESIDUE FROM EXISTING ADJACENT SURFACES. PROVIDE SEALANT AND CLOSED-CELL BACKER ROD.
- WS23 REPOINT EXISTING MASONRY JOINTS APPROXIMATELY 100 S.F. SEE DETAIL 6/A525. (REPLACE CRACKED OR LOOSE BRICK AS REQUIRED.)
- WS24 NOT USED.
- WS25 NOT USED.
- WS26 NOT USED.
- WS27 PREPARE EXISTING FOUNDATION WALL SURFACES FOR PAINTING. REMOVE EXISTING PAINT, FILL ALL HOLES, CRACKS, DEPRESSIONS, ETC. SCRAPE, WIRE BRUSH EXISTING RUSTING REBAR. APPLY EPOXY RUST ENCAPSULATING PAINT, GRIND DOWN ANY HIGH SPOTS OR PROTRUSIONS. FEATHER PATCHING MATERIAL TO PROVIDE SMOOTH TRANSITION TO ADJOINING SURFACES. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- WS28 PROVIDE 2" INSULATED METAL PANELS (IP-2) AT ABANDONED DUCT OPENINGS. PROVIDE BACKER ROD AND PERIMETER SEALANT. (PANELS TO BE INSTALLED BY ABATEMENT SUBCONTRACTOR)
- WS29 SCRAPE, WIRE BRUSH, PRIME & PAINT EXISTING STEEL HANDRAILS & GUARDRAILS.
- WS30 PROVIDE ½" COMPRESSIBLE FILLER AND POURABLE SEALANT BETWEEN PAVEMENT AND BUILDING ELEMENTS. SEE DETAIL 8/A525.
- WS31 PROVIDE METAL PARTITION / INFILL. (1) LAYER EACH SIDE 5/8" TYPE 'X' GYPSUM BOARD OVER ⅝" METAL STUDS @ 16" O.C. PROVIDE SMOOTH TRANSITION BETWEEN NEW & EXISTING PRIME & PAINT ENTIRE WALL.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER ANY ITEM ON THIS PLAN IN ANY WAY. IF ANY ITEM IS ALTERED, THE ALTERING ARCHITECT SHALL AFFIX TO THE PLAN ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE. COPYRIGHT © 2019

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YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701

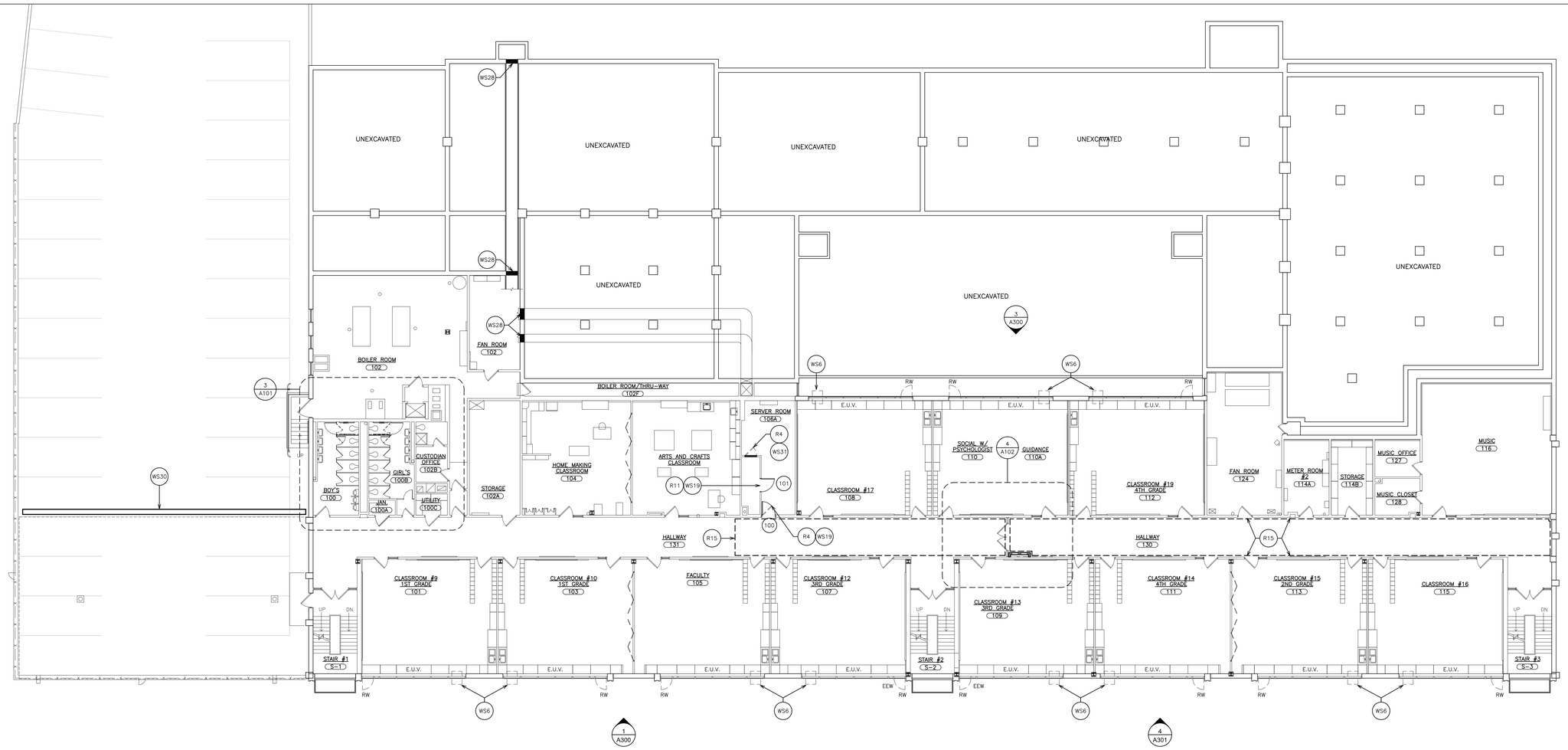
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
GROUND FLOOR PLAN

SHEET NO.
A100

FILE PATH - I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\1-F&O\20378.03 Phase 3 HVAC\20378.00-A100.dwg



1 FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"

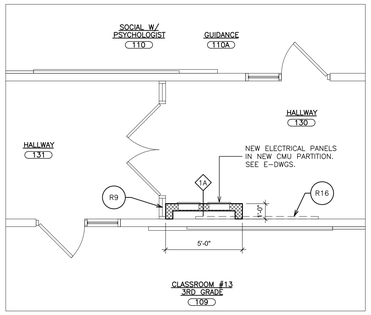
0 2' 4' 8' 16'

REMOVAL NOTES:
(COORDINATE REMOVALS W/ ABATEMENT CONTRACTOR)

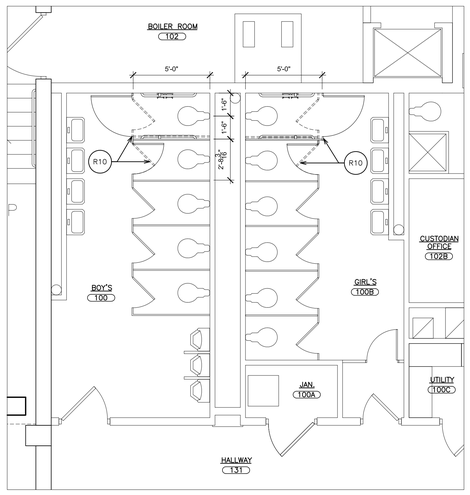
- R1 REMOVE EXISTING DOORS, METAL FRAMES, TRANSOMS, HARDWARE, SADDLES AND ALL RELATED ITEMS. EXISTING LINTEL TO REMAIN. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R2 SAW-CUT AND REMOVE CMU PARTITION(S) FROM SLAB TO STRUCTURE ABOVE. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES. GRIND DOWN ANY HIGH SPOTS UNDER EXISTING WALL. FLASH PATCH SMOOTH TO ADJACENT SURFACES.
- R3 SAW-CUT AND REMOVE PORTION OF CMU PARTITION FOR INSTALLATION OF NEW DUCK WORK & LOUVER. WORK IN MANNER WHICH PROVIDE CONTINUOUS SUPPORT OF MASONRY ABOVE. SEE DETAIL 3/A500. SEE M-DWGS FOR ADDITIONAL INFORMATION.
- R4 REMOVE EXISTING DOORS, METAL FRAMES, TRANSOMS, HARDWARE, SADDLES, SIDE-LITES AND ALL RELATED ITEMS. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R5 NOT USED.
- R6 REMOVE EXISTING A/C UNIT, SLEEVE, BRACKETS, SUPPORTS, AND ALL ASSOCIATED ITEMS. TURN OVER TO OWNER.
- R7 NOT USED.
- R8 REMOVE EXISTING CHAIN LINK FENCE, POSTS, FOOTINGS, FABRIC AND ALL RELATED ITEMS.
- R9 REMOVE EXISTING STOPS, METAL PANELS, GLASS AND ALL RELATED ITEMS. PROVIDE AND INSTALL NEW METAL PANELS, STOP AND ALL RELATED ITEMS. PAINT TO MATCH DOOR FRAMES.
- R10 REMOVE PORTION OF EXISTING TOILET PARTITIONS, TO ENLARGE FOR AMBULATORY STALL. PROVIDE NEW TOILET PARTITIONS MATCH EXISTING ADJACENT COLOR AND TEXTURE. PROVIDE NEW GRABS BARS {(2)BOBRICK #B5806-42.99 & (1)#B5806-18.99 AMBULATORY EACH STALL} & ACCESSORIES.
- R11 SAW-CUT AND REMOVE PORTION OF GYPSUM BOARD & METAL STUD PARTITION(S) FOR INSTALLATION OF NEW DOOR/FRAME. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES. FLASH PATCH SMOOTH TO ADJACENT SURFACES.
- R12 REMOVE ALL ACOUSTICAL CEILING PANELS, SUSPENSION SYSTEM. EXISTING LIGHTING & DEVICE CEILING MOUNTED TO BE REMOVED AND STORED. REINSTALLED UPON COMPLETION OF COMPLETION OF WORK.
- R13 SAW-CUT AND REMOVE PORTION OF CMU PARTITION(S) FOR INSTALLATION OF NEW DOOR/FRAME. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES. GRIND DOWN ANY HIGH SPOTS UNDER EXISTING WALL. FLASH PATCH SMOOTH TO ADJACENT SURFACES. WORK IN A MANNER THAT PROVIDES CONTINUOUS SUPPORT OF MASONRY ABOVE.
- R14 REMOVE EXISTING SUSPENDED CEILING ASSEMBLY (2x4 OR 2x2), SUSPENSION SYSTEM, PANELS, WALL ANGLES, SEISMIC TIES AND ALL RELATED ITEMS. COORDINATE WORK WITH E-CONTRACTOR. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R15 2x2 OR 2x4 SUSPENDED ACOUSTICAL CEILING. CONTRACTOR TO CAREFULLY REMOVE AND STORE EXISTING CEILING PANELS AND GRID SYSTEM AS REQUIRED TO ACCESS WORK AREAS. REPLACE ANY DAMAGED CEILING PANELS AND OR GRID. REINSTALL GRID AND PANELS UPON COMPLETION OF WORK. CONTRACTOR TO PROVIDE 2 BOXES OF EACH TYPE OF ACOUSTICAL CEILING PANELS (MATCH EXISTING) TO OWNER.
- R16 REMOVE EXISTING MARKER BOARDS, TACK BOARDS & ALL RELATED ITEMS. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R17 REMOVE EXISTING VCT FLOOR TILE, (MULTIPLE LAYER MAY EXIST) WALL BASE, TRANSITION STRIPS, MASTIC AND SUBSTRATE DOWN TO EXISTING SLAB. MECHANICALLY PROFILE 100% OF EXISTING FLOOR SLAB FOR NEW FLOOR FINISHES.
- R18 REMOVE EXISTING LIGHT FIXTURE & CEILING MOUNTED DEVICES. SEE ELECTRICAL DRAWINGS.

WORKSCOPE NOTES:

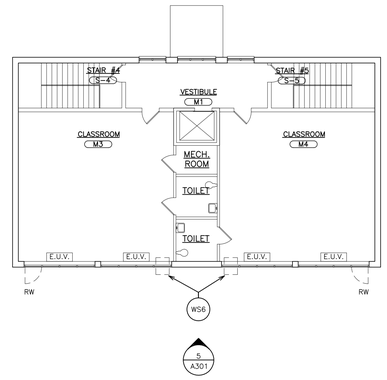
- WS1 PROVIDE NEW LOW-E INSULATED GLASS IN EXISTING CURTAIN WALL FRAMING.
- WS2 INFILL EXISTING DUCT OPENING. SEE DETAIL 11/A525.
- WS3 REMOVE EXISTING HARDWARE MOUNTED ON EXISTING DOORS AND FRAME FOR INSTALLATION OF NEW ACCESS CONTROL HARDWARE. PROVIDE AND INSTALL NEW CARD READERS, DOOR CONTACTS, ELECTRIC STRIKE & ACCESS CONTROL SYSTEM. RUN ALL NEW WIRING WITH-IN EXISTING HOLLOW METAL DOOR FRAMES. SEE HARDWARE SCHEDULE AND SECURITY DRAWINGS FOR HARDWARE AND ADDITIONAL INFORMATION.
- WS4 NOT USED.
- WS5 NOT USED.
- WS6 NEW WALL A/C UNIT PROVIDED AND INSTALLED BY HVAC CONTRACTOR. A/C SLEEVE PROVIDED BY HVAC CONTRACTOR AND INSTALLED BY G.C. COORDINATE OPENING IN METAL PANELS WITH HVAC CONTRACTOR. SEE DETAIL C/A725
- WS7 SCRAPE, WIRE BRUSH, PRIME AND PAINT EXISTING STEEL LINTEL. COLOR TO MATCH BRICK.
- WS8 PROVIDE NEW ACOUSTICAL CEILING PANELS IN EXISTING GRID CUT AS REQUIRED. PROVIDE WALL ANGLES AND RUNNERS SUPPORTS AS REQUIRED.
- WS9 NOT USED.
- WS10 NOT USED.
- WS11 NOT USED.
- WS12 PROVIDE SUSPENDED ACOUSTICAL CEILING SYSTEM & ALL RELATED ITEMS. ELECTRICAL CONTRACTOR TO REINSTALL EXISTING LIGHT FIXTURES & CEILING MOUNTED DEVICES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE DETAILS A500.
- WS13 PROVIDE SUSPENDED ACOUSTICAL CEILING SYSTEM & ALL RELATED ITEMS. ELECTRICAL CONTRACTOR TO PROVIDE NEW LIGHT FIXTURES & CEILING MOUNTED DEVICES. COORDINATE INSTALLATION. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE DETAILS A500.
- WS14 PREPARE EXISTING WALL SURFACES FOR PAINTING. FILL ALL HOLES, CRACKS, DEPRESSIONS, ETC. AND GRIND DOWN ANY HIGH SPOTS OR PROTRUSIONS. FEATHER PATCHING MATERIAL TO PROVIDE SMOOTH TRANSITION TO ADJOINING SURFACES.
- WS15 PROVIDE CEMENT-BASED SELF-LEVELING UNDERLAYMENT TO ACHIEVE FLUSH CONDITION WITH ADJACENT FLOOR(S) ON 100% FLOOR SURFACE.
- WS16 PROVIDE FLOOR FINISH. SEE FINISH SCHEDULE AND FINISH PLANS.
- WS17 PROVIDE CMU PARTITION / INFILL. TOOTHED INTO EXISTING CMU WALL. MATCH EXISTING CMU THICKNESS.
- WS18 ELECTRICAL CONTRACTOR PROVIDE AND INSTALL MAGNETIC HOLD OPEN DEVICE. COORDINATE DOOR INSTALLATION AND SWING WITH DEVISE LOCATION.
- WS19 INSTALL NEW DOOR, FRAME AND HARDWARE. SEE DOOR DETAILS & SCHEDULE.
- WS20 NOT USED.
- WS21 INSTALL NEW 6 FT. HIGH VINYL COATED CHAIN LINK FENCE & FOOTINGS. SEE DETAIL 5/A525 AND SPECIFICATIONS.
- WS22 REMOVE EXISTING SEALANT AND BACKER ROD PERIMETER JOINT. CLEAN RESIDUE FROM EXISTING ADJACENT SURFACES. PROVIDE SEALANT AND CLOSED-CELL BACKER ROD.
- WS23 REPOINT EXISTING MASONRY JOINTS APPROXIMATELY 100 S.F. SEE DETAIL 6/A525. (REPLACE CRACKED OR LOOSE BRICK AS REQUIRED.)
- WS24 NOT USED.
- WS25 NOT USED.
- WS26 NOT USED.
- WS27 PREPARE EXISTING FOUNDATION WALL SURFACES FOR PAINTING. REMOVE EXISTING PAINT, FILL ALL HOLES, CRACKS, DEPRESSIONS, ETC. SCRAPE, WIRE BRUSH EXISTING RUSTING REBAR. APPLY EPOXY RUST ENCAPSULATING PAINT. GRIND DOWN ANY HIGH SPOTS OR PROTRUSIONS. FEATHER PATCHING MATERIAL TO PROVIDE SMOOTH TRANSITION TO ADJOINING SURFACES. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- WS28 PROVIDE 2" INSULATED METAL PANELS (IP-2) AT ABANDONED DUCT OPENINGS. PROVIDE BACKER ROD AND PERIMETER SEALANT. (PANELS TO BE INSTALLED BY ABATEMENT SUBCONTRACTOR)
- WS29 SCRAPE, WIRE BRUSH, PRIME & PAINT EXISTING STEEL HANDRAILS & GUARDRAILS.
- WS30 PROVIDE ½" COMPRESSIBLE FILLER AND POURABLE SEALANT BETWEEN PAVEMENT AND BUILDING ELEMENTS. SEE DETAIL 8/A525.
- WS31 PROVIDE METAL PARTITION / INFILL (1) LAYER EACH SIDE 5/8" TYPE 'X' GYPSUM BOARD OVER ½" METAL STUDS @ 16" O.C. PROVIDE SMOOTH TRANSITION BETWEEN NEW & EXISTING PRIME & PAINT ENTIRE WALL.



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



3 PARTIAL GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"



ANNEX BUILDING FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0"

0 2' 4' 8' 16'

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER ANY ITEM ON THIS PLAN IN ANY WAY. IF ANY ITEM BEARING THE SEAL OF AN ARCHITECT IS ALTERED, THE ALTERING ARCHITECT SHALL AFFIX TO THE PLAN ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE. COPYRIGHT © 2019

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JACK EISENBACH
No. 095445
LICENSED PROFESSIONAL ENGINEER

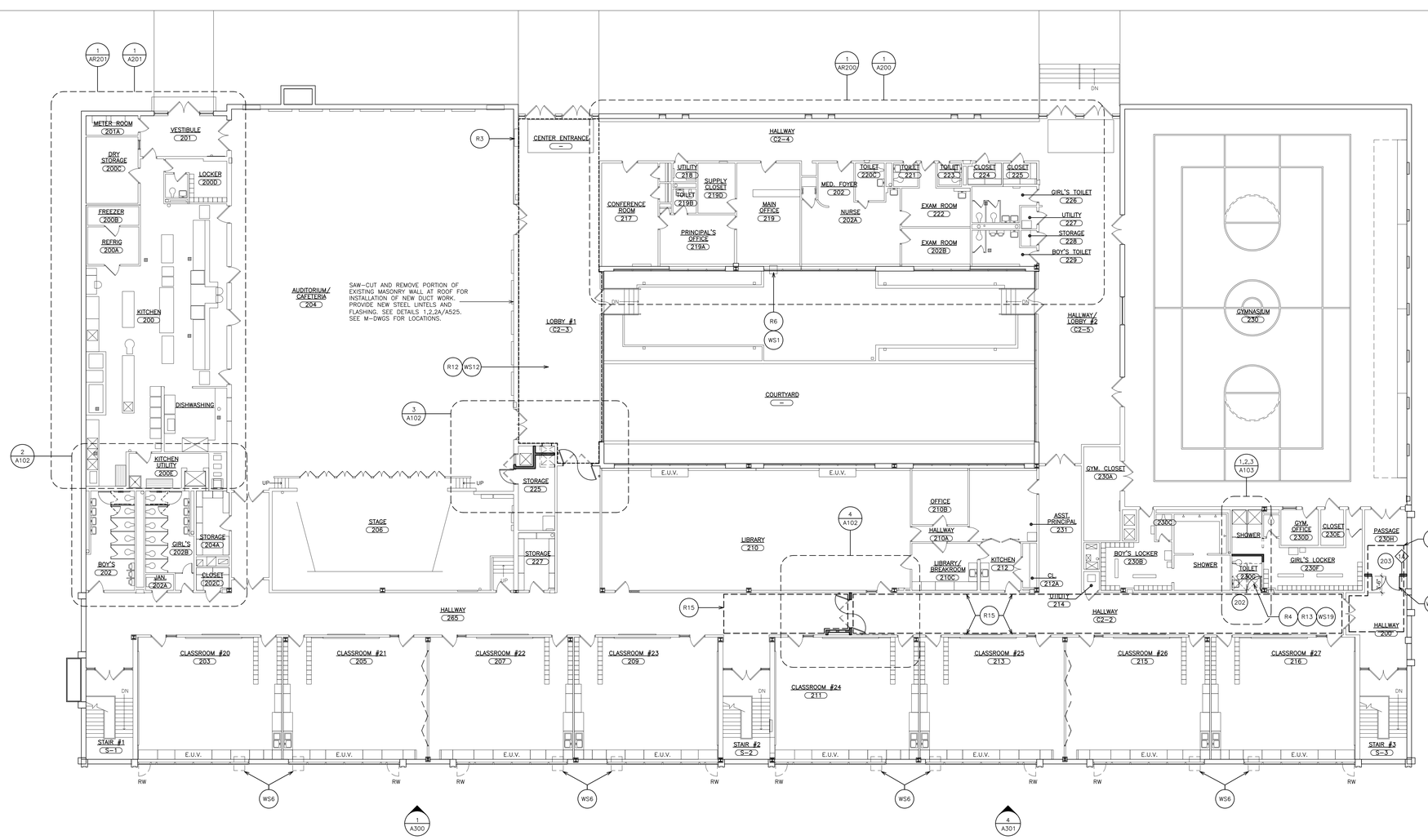
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

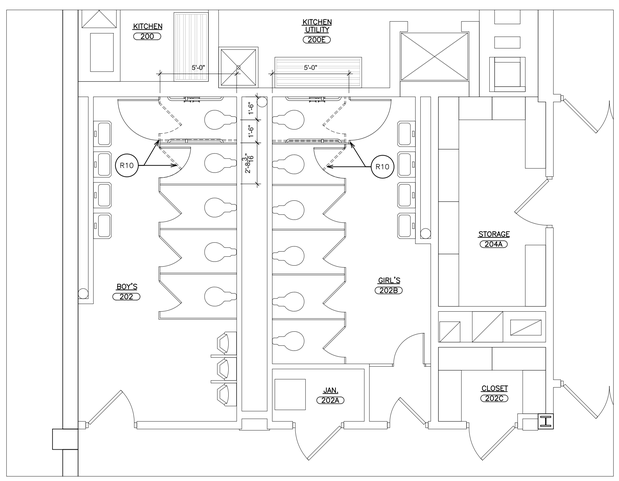
SHEET TITLE: FIRST FLOOR PLAN

SHEET NO.: A101

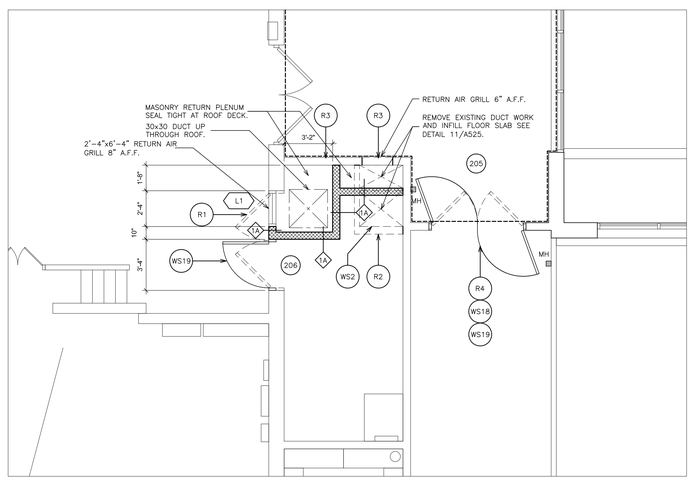
FILE PATH - I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\T-F&O\20378.03 Phase 3 HVAC\20378.00-A101.dwg



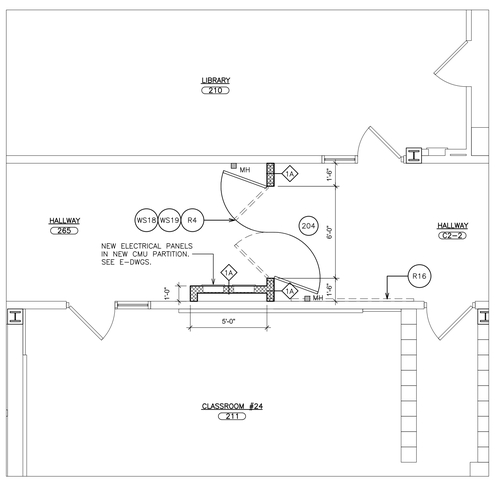
1 SECOND FLOOR PLAN
SCALE: 3/32" = 1'-0"



2 PARTIAL SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"



3 PARTIAL SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"



4 PARTIAL SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"

REMOVAL NOTES:
(COORDINATE REMOVALS W/ ABATEMENT CONTRACTOR)

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- R5 NOT USED.
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WORKSCOPE NOTES:

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- WS2 INFILL EXISTING DUCT OPENING. SEE DETAIL 11/A525.
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- WS16 PROVIDE FLOOR FINISH. SEE FINISH SCHEDULE AND FINISH PLANS.
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- WS19 INSTALL NEW DOOR, FRAME AND HARDWARE. SEE DOOR DETAILS & SCHEDULE.
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- WS28 PROVIDE 2" INSULATED METAL PANELS (IP-2) AT ABANDONED DUCT OPENINGS. PROVIDE BACKER ROD AND PERIMETER SEALANT. (PANELS TO BE INSTALLED BY ABATEMENT SUBCONTRACTOR)
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STATE OF NEW YORK · JACK EISENBACH · No. 099445 · LICENSED PROFESSIONAL ENGINEER

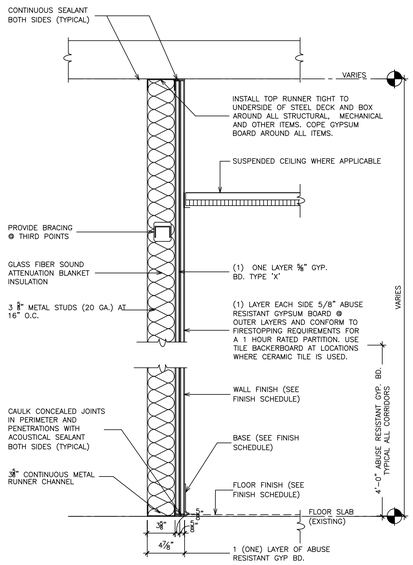
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF & INTERIOR UPGRADES
WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JJE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE: SECOND FLOOR PLAN

SHEET NO. A102

FILE Path - I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\1-f&D\20378.03 Phase 3 HVAC\20378.00-A102.dwg



5 METAL STUD WALL

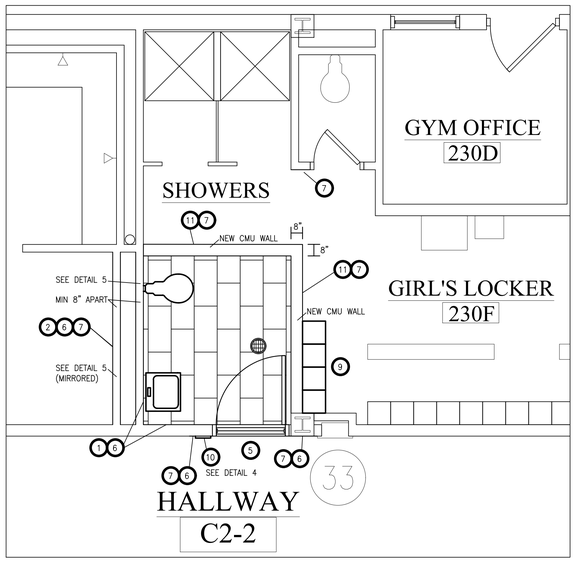
TYPICAL NOTE:

FIRE STOP PERIMETER AND ALL PENETRATIONS WITH FIRESAFING AND FIRE RESISTANT SEALANT TO COMPLY WITH AN APPROVED UL FIRESTOP SYSTEM.

4 ALL GENDER UNISEX RESTROOM SIGN

SCALE: NONE

8"x8" ACRYLIC SIGN WITH ALMOND COLORED FRAME FEATURING BRAILLE AND RAISED ARIAL-FONT LETTERING. COLORS TO MATCH ADJACENT ROOM SIGNAGE. USE TWO-SIDED FOAM TAPE AND SCREWS TO MOUNT AND INSTALL PER MANUFACTURER'S INSTRUCTIONS. COLOR CONTRASTING, RAISED LETTERING, BRAILLE, AND PLACEMENT ARE TO CONFORM TO ADA 2010 STANDARDS.

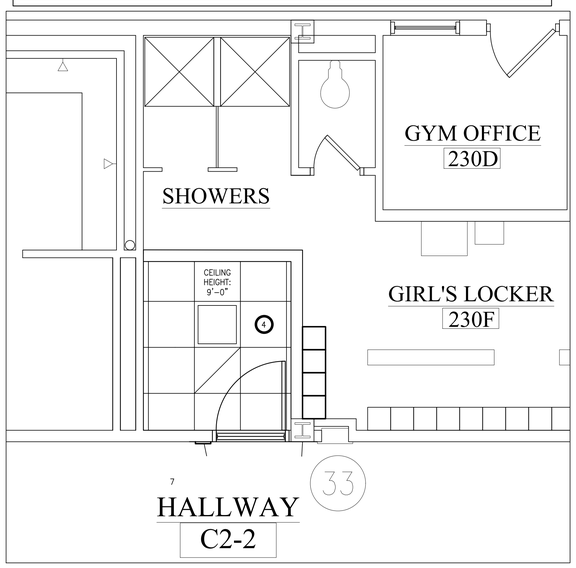


2 BATHROOM FLOOR PLAN - NEW WORK

SCALE: 3/8"=1'-0" SEE DRAWINGS A825 AND P102 FOR ADDITIONAL INFORMATION

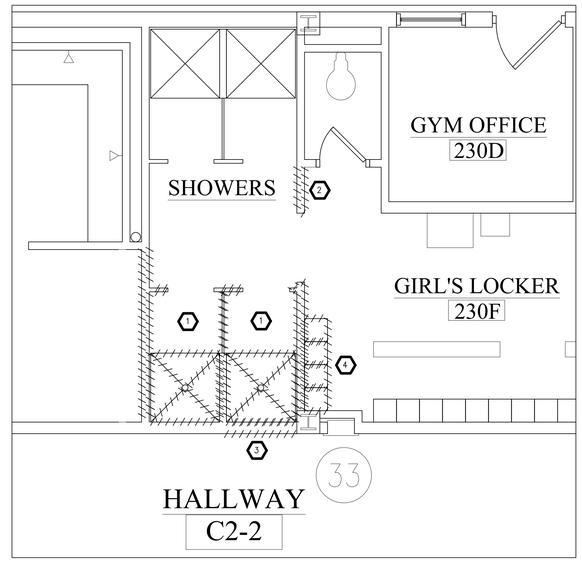
KEYED NOTES – NEW WORK:

1. PROVIDE ONE LAYER OF DURAROCK AND ONE LAYER OF 5/8" SHEET ROCK ON EXISTING WALLS. INSPECT EXISTING STUDS AND FRAMING. PROVIDE AND REPLACE STUDS AND FRAMING AS NEEDED.
2. PROVIDE NEW WALL INCLUDING ONE LAYER OF DURAROCK AND ONE LAYER OF 5/8" SHEET ROCK, FRAMING, STUDS AND ASSOCIATED. COORDINATE WITH PLUMBING DRAWINGS.
3. PROVIDE NEW 12"x24" FLOOR TILE AND ASSOCIATED. INSPECT EXISTING SUB-FLOORING. PROVIDE AND REPLACE SUB-FLOORING AS NECESSARY. COORDINATE WITH PLUMBING DRAWINGS.
4. PROVIDE AND SUPPORT NEW 24"x24" CEILING TILE AND GRID.
5. PROVIDE NEW 3'-0" x 7'-0" HOLLOW STEEL DOOR WITH STEEL DOOR FRAME AS SHOWN. PROVIDE DOOR FRAMING, TRIM AND HARDWARE. PROVIDE 3/4" UNDERCUT FOR NEW DOOR. PROVIDE LINTEL. REFER TO DOOR SCHEDULE.
6. GC TO SKIMCOAT, SPACKLE, AND SAND FLUSH WALLS. GC TO PRIME AND PAINT TRIMS. WALLS SHALL BE FREE FROM IMPURITIES, INCONSISTENCIES, AND UNEVEN SURFACES. REPAIR AND PATCH ANY DAMAGE FROM CUTTING EXISTING TO REMAIN WALLS.
7. PRIME AND PAINT AREAS INDICATED. PAINT SHALL BLEND OR EXTEND TO MATCH IMMEDIATELY ADJACENT EXISTING PAINT WHERE APPLICABLE.
8. PROVIDE BLOCKING IN STUDDED WALLS FOR NEW FIXTURES. COORDINATE WITH A-104 AND P-102.
9. REINSTALL EXISTING LOCKERS AGAINST NEW WALL WITH ADJUSTMENT AS NEEDED.
10. PROVIDE UNISEX-HANDICAP RESTROOM SIGN AS SHOWN. AFFIX TO WALL ON THE LATCH SIDE OF DOOR. POSITION SO THE HIGHEST LETTERING BASELINE IS BETWEEN 48" AND 60" AFF PER ADA 2010 STANDARDS.
11. PROVIDE NEW CMU WALL. COORDINATE WITH PLUMBING DRAWINGS.



3 BATHROOM REFLECTED CEILING PLAN - NEW WORK

SCALE: 3/8"=1'-0" SEE DRAWINGS M104 AND E102 FOR ADDITIONAL INFORMATION



1 SECOND FLOOR BATHROOM PLAN - REMOVALS

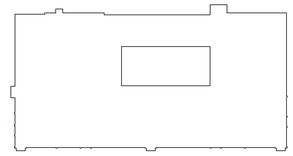
SCALE: 3/8"=1'-0" SEE DRAWING A102 FOR ADDITIONAL INFORMATION

KEYED NOTES – REMOVALS:

1. REMOVE EXISTING FLOORING, CEILING, TILE, WALLS, DETERIORATED STUDS, AND ASSOCIATED IN EXISTING SHOWER ROOM TO PREPARE FOR NEW WORK.
2. REMOVE PORTION OF EXISTING CMU WALL TO ALLOW CLEARANCE TO EXISTING TO REMAIN SHOWERS.
3. REMOVE PORTION OF WALL TO ACCOMMODATE NEW DOOR AND FRAMING.
4. CAREFULLY REMOVE AND SAFELY STORE LOCKERS FOR REUSE.

KEY-PLAN

SCALE: NONE



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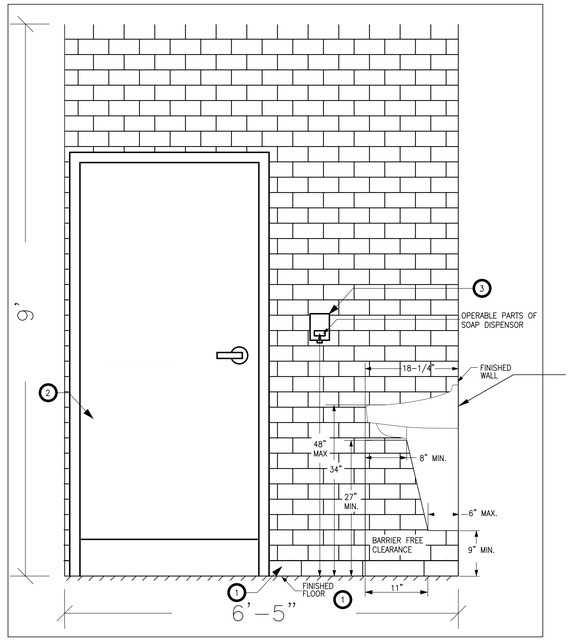
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	**12/07/2023**
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
SECOND FLOOR NEW BATHROOM PLAN - REMOVALS AND NEW WORK

SHEET NO.
A-103

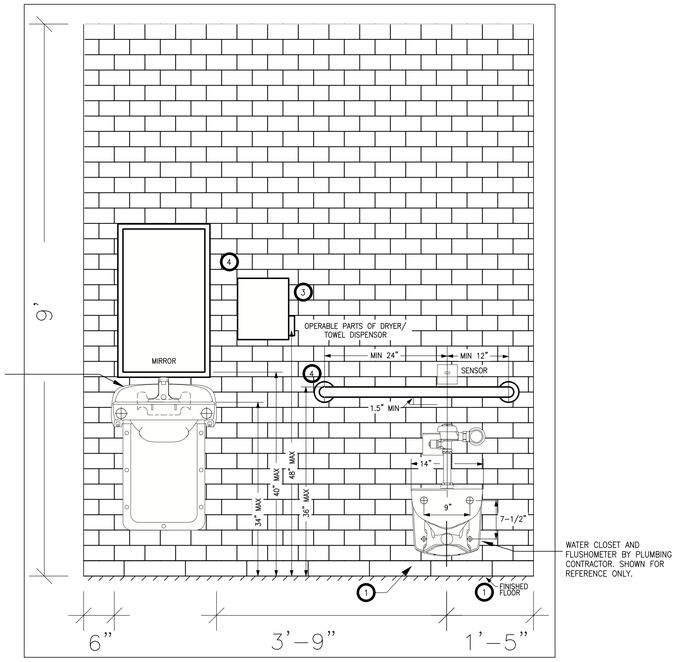
FILE PATH - N:\ - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.Interior\Y19mlk01.A103-A104.dwg



5 LAVATORY DETAIL - ADA ELEVATION

SCALE: NONE

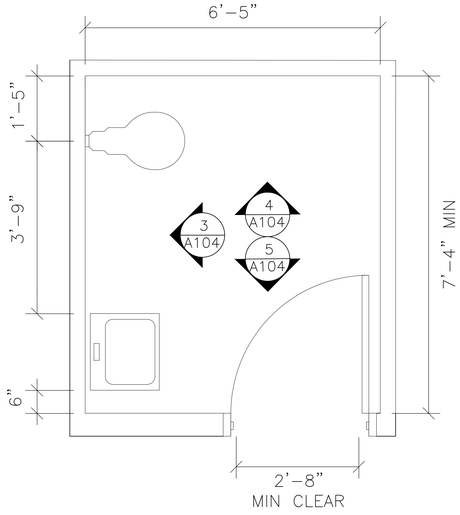
NOTE: MEASUREMENTS PROVIDED ARE FOR REFERENCE ONLY AND ARE EITHER APPROXIMATED, ADAPTED FROM ADA 2010 STANDARDS, OR PROVIDED BY THE MANUFACTURER. CONTRACTORS SHALL VERIFY MEASUREMENTS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL SPECIFY DISCREPANCIES TO THE ENGINEER IN WRITING.



3 BATHROOM FIXTURES DETAIL - ADA ELEVATION

SCALE: NONE

NOTE: MEASUREMENTS PROVIDED ARE FOR REFERENCE ONLY AND ARE EITHER APPROXIMATED, ADAPTED FROM ADA 2010 STANDARDS, OR PROVIDED BY THE MANUFACTURER. CONTRACTORS SHALL VERIFY MEASUREMENTS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL SPECIFY DISCREPANCIES TO THE ENGINEER IN WRITING.



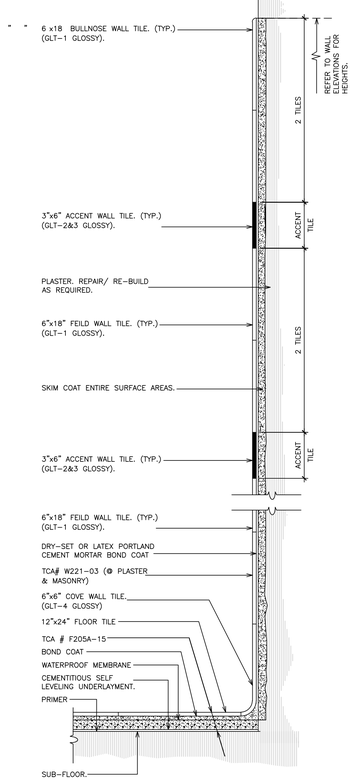
1 NEW BATHROOM DETAIL

SCALE: 3/4"=1'-0"

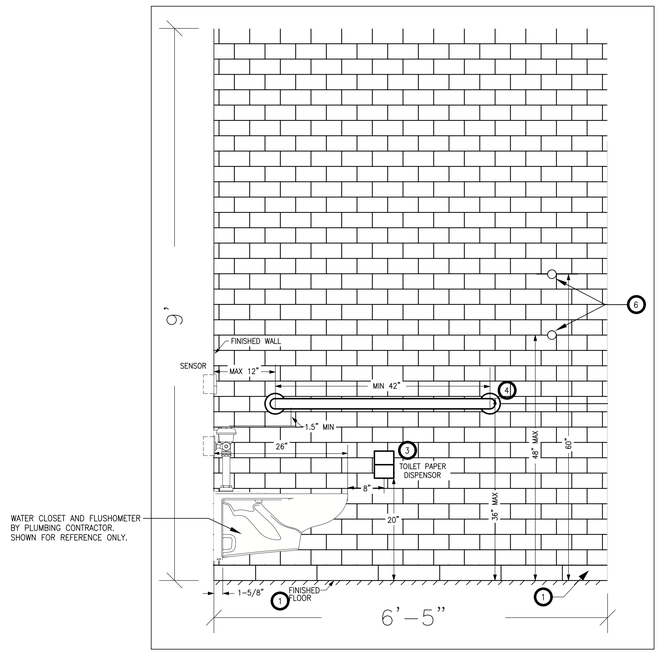
NOTE: MEASUREMENTS PROVIDED ARE FOR REFERENCE ONLY AND ARE EITHER APPROXIMATED OR ADAPTED FROM ADA 2010 STANDARDS. CONTRACTORS SHALL VERIFY MEASUREMENTS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL SPECIFY DISCREPANCIES TO THE ENGINEER IN WRITING.

KEYED NOTES – NEW WORK:

1. PROVIDE NEW 12"x12" FLOORING TILE AND GROUT. INSPECT EXISTING SUB-FLOORING. PROVIDE AND REPLACE SUB-FLOORING AS NECESSARY. TILING SHALL CONTINUE ONTO WALL AS SHOWN.
2. PROVIDE NEW 3'-0" x 7'-0" HOLLOW STEEL DOOR WITH STEEL FRAME DOOR AS SHOWN. PROVIDE DOOR FRAMING, TRIM AND HARDWARE. PROVIDE STAINLESS STEEL AND RUBBER DOOR STOP POSITIONED AT SAME HEIGHT AS DOOR HANDLE.
3. DISTRICT TO FURNISH SOAP DISPENSER, TOILET PAPER DISPENSER, AND PAPER TOWEL DISPENSER. THESE ITEMS TO BE INSTALLED BY GC WITH RIGID SUPPORT, USING BLOCKING AS NECESSARY. CONTRACTOR SHALL INSTALL THESE ITEMS AT HEIGHTS AND ORIENTATION THAT COMPLY WITH ADA 2010 STANDARDS.
4. GC TO PROVIDE STAINLESS STEEL RIMMED MIRROR AND STAINLESS STEEL GRAB BARS TO BE INSTALLED WITH RIGID SUPPORT, USING BLOCKING AS NECESSARY. CONTRACTOR SHALL INSTALL THESE ITEMS AT HEIGHTS AND ORIENTATION THAT COMPLY WITH ADA 2010 STANDARDS.
5. PROVIDE ACCENT TILE STRIP WITH COLOR AND FINISH CHOSEN BY DISTRICT. SEE WALL TILE DETAIL.
6. PROVIDE TWO (2) METAL COAT HOOKS WITH SCREWS AND ASSOCIATED ANCHORS. INSTALL ONE AT 48" AFF PER ADA 2010 STANDARDS AND THE OTHER AT MAX 60" AFF. INSTALL HOOKS ONE OVER THE OTHER AS SHOWN.



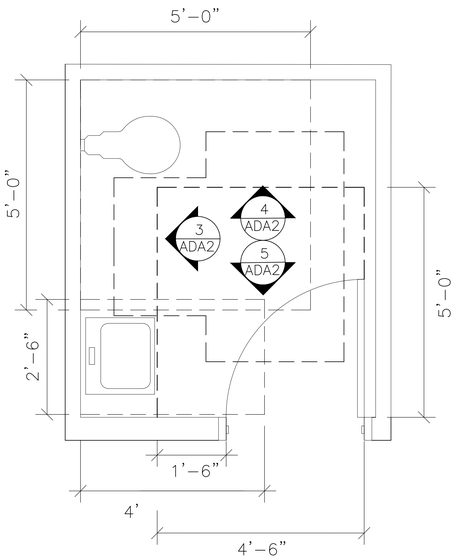
6 WALL TILE DETAIL



4 WATER CLOSET DETAIL - ADA ELEVATION

SCALE: NONE

NOTE: MEASUREMENTS PROVIDED ARE FOR REFERENCE ONLY AND ARE EITHER APPROXIMATED, ADAPTED FROM ADA 2010 STANDARDS, OR PROVIDED BY THE MANUFACTURER. CONTRACTORS SHALL VERIFY MEASUREMENTS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL SPECIFY DISCREPANCIES TO THE ENGINEER IN WRITING.



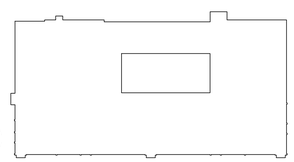
2 NEW BATHROOM DETAIL - ADA GUIDELINES

SCALE: 3/4"=1'-0"

NOTE: MEASUREMENTS PROVIDED ARE FOR REFERENCE ONLY AND ARE EITHER APPROXIMATED OR ADAPTED FROM ADA 2010 STANDARDS. CONTRACTORS SHALL VERIFY MEASUREMENTS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL SPECIFY DISCREPANCIES TO THE ENGINEER IN WRITING.

KEY-PLAN

SCALE: NONE



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YONKERS PUBLIC SCHOOLS
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E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	**12/07/2023**
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
SECOND FLOOR NEW BATHROOM DETAILS AND GUIDELINES

SHEET NO.
A-104

FILE PATH - N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.interior\Y19mlk01.A103-A104.dwg

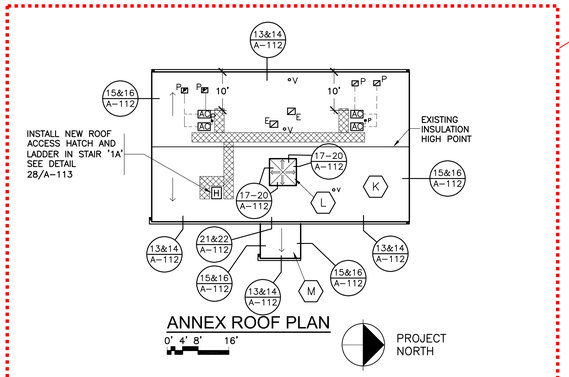
ROOF R-VALUE CALCULATIONS

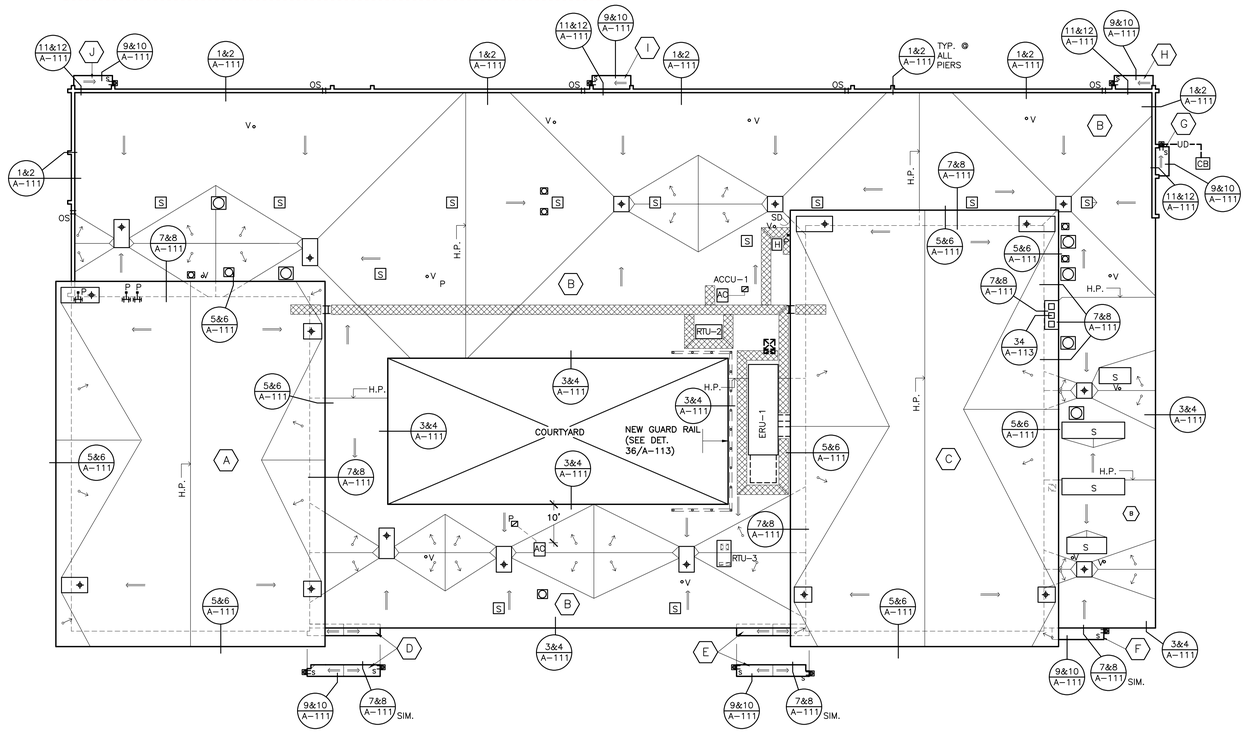
ROOF AREA	DECK TYPE	STARTING THICKNESS OF NEW INSULATION	MINIMUM R-VALUE OF NEW INSULATION	AVERAGE THICKNESS OF NEW INSULATION	AVERAGE R-VALUE OF NEW INSULATION
A	CONCRETE	5.5"	30	7.6"	44.7
B	METAL	3.5"	30	7.7"	45.3
C	CONCRETE	3.5"	30	7.6"	44.7
D	METAL	1.5"	–	–	(SEE NOTE 6)
E	METAL	1.5"	–	–	(SEE NOTE 6)
F	METAL	1.5"	–	–	(SEE NOTE 6)
G	METAL	1.5"	–	–	(SEE NOTE 6)
H	METAL	1.5"	–	–	(SEE NOTE 6)
I	METAL	1.5"	–	–	(SEE NOTE 6)
J	METAL	1.5"	–	–	(SEE NOTE 6)
K	METAL	3.5"	30	6.7"	39.2 (SEE NOTE 3)
L	METAL	1.5"	30	5.7"	33.3
M	METAL	3.5"	30	6.1"	35.6 (SEE NOTE 3)

NOTES:

1. INSTALL INSULATION WITH A MINIMUM R-VALUE OF 30 FOR CONTINUOUS INSULATION ENTIRELY ABOVE THE DECK, TO MEET THE NYS ENERGY CONSERVATION CONSTRUCTION CODE, INCLUDING THE INTERNATIONAL ENERGY CONSERVATION CODE AND THE NY STATE SUPPLEMENT, FOR A BUILDING IN CLIMATE ZONE 4.
2. INSTALL TAPERED INSULATION SLOPING 1/8"/FOOT, MINIMUM 5-1/2" THICK UNLESS OTHERWISE NOTED ABOVE.
3. ON ROOF AREAS 'K' AND 'M' INSTALL 2 LAYERS OF 2" THICK FLAT ISOCYANURATE INSULATION OVER THE EXISTING TAPERED ISOCYANURATE INSULATION.
4. INSTALL ISOCYANURATE INSULATION CRICKETS UNDER THE TAPERED INSULATION.
5. INSTALL A COVER BOARD USING LOW RISE FOAM ADHESIVE OVER THE INSULATION AND CRICKETS.
6. ROOF AREAS 'D' THROUGH 'J' ARE EXTERIOR CANOPIES, R-VALUE CALCULATIONS ARE NOT NEEDED.

NOTE:
ALL WORK FOR THE ANNEX ROOF TO BE SUBMITTED AS A SEPARATE BID. SEE SPECIFICATIONS.





GENERAL NOTES:

1. DIMENSIONS AND CONDITIONS ON THE ROOF PLAN AND DETAILS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE CONTRACTOR.
2. ONLY CERTAIN FASTENERS ARE SHOWN ON THE DRAWINGS, REFER TO THE SPECIFICATIONS FOR ADDITIONAL FASTENER REQUIREMENTS.
3. TEST EACH DRAIN LINE WITH A RUNNING HOSE FOR AT LEAST ONE HOUR PRIOR TO STARTING ANY OTHER WORK ON SITE. PROVIDE A WRITTEN REPORT OF ANY CLOGGED LINES TO THE OWNER.
   A. CLOGGED DRAIN LINES REPORTED TO THE OWNER BEFORE WORK STARTS WILL BE CLEANED BY THE OWNER.
   B. COVER & PROTECT ALL DRAIN OPENINGS AT THE BEGINNING OF EACH WORK DAY. REMOVE THE COVERS AT THE END OF EACH DAY AND BEFORE PRECIPITATION OCCURS.
   C. PERFORM WHATEVER WORK IS REQUIRED SO ALL DRAIN LINES ARE CLEAN AND FREE FLOWING UPON COMPLETION OF THE PROJECT.
4. REMOVE AND RESET EXISTING AC CONDENSERS AND SET NEW AC CONDENSERS ON 2 X 2 FOOT X 2 INCH THICK CONCRETE PAVERS SET ON WALKWAY PADS A MINIMUM OF 10 FT. AWAY FROM THE ROOF EAVE. FASTEN THE CONDENSERS TO THE PAVERS WITH STAINLESS STEEL NAIL-INS. DISCONNECT, ADJUST, MODIFY, AND RECONNECT THE EXISTING SUPPLY & RETURN LINES AND CONDUITS AND RUN THEM INTO NEW PORTAL PLUS CURBS.
5. REMOVE EXISTING ROOF TOP ELECTRICAL CONDUIT AND GAS PIPE SUPPORTS. RE-SET THE CONDUIT AND PIPES ON ADJUSTABLE HEIGHT FACTORY MANUFACTURED PIPE SUPPORTS PLACED ON WALKWAY PADS SPACED 5 FEET ON CENTER. SECURE THE CONDUITS AND PIPES TO THE PIPE SUPPORTS WITH GALVANIZED CLIPS & BOLTS.
6. WIRE BRUSH, PRIME & PAINT ALL ROOF TOP EQUIPMENT HOUSINGS, AND THE VENT PIPES. DO NOT PAINT OVER EQUIPMENT NAME PLATES AND LABELS.
7. REPAIR EQUIPMENT HOUSINGS SO THEY ARE WATERTIGHT; REPLACE ANY MISSING PIECES.
8. RE-CAULK ALL VERTICAL MASONRY CONTROL AND EXPANSION JOINTS IN THE CHANGE IN ELEVATION WALLS ABOVE LOWER LEVEL ROOFS. REMOVE EXISTING SEALANT AND BACK UP MATERIALS, AND INSTALL NEW BACKER ROD AND SEALANT.
9. REMOVE ABANDONED ANTENNAS AND SATELLITE DISHES. REMOVE AND RESET ACTIVE ANTENNAS. INSTALL THE SATELLITE DISHES ON NEW 2 X 2 FOOT X 2 INCH THICK CONCRETE PAVERS SET ON WALKWAY PADS.
10. REFASTEN LOOSE SECTIONS OF METAL DECKS AS BASE BID WORK. REPAIR SURFACE DEFECTS LESS THAN 1/2 INCH DEEP IN THE TOP SURFACE OF CONCRETE DECKS AS BASE BID WORK USING FAST SETTING CONCRETE GROUT. REPLACE DAMAGED OR DETERIORATED SECTIONS OF DECK IN ACCORDANCE WITH THE UNIT PRICES.
11. INSTALL NEW 4" DIAMETER SCHEDULE 80 PVC UNDERGROUND DRAIN LINE TO CONNECTED THE NEW LEADER TO THE EXISTING CATCH BASIN. REMOVE AND RESTORE ASPHALT PAVEMENT AND CONCRETE SIDEWALKS TO INSTALL THE NEW DRAIN LINE. SET THE PIPE ON A 4" BED OF PEA GRAVEL AND SURROUND THE PIPE WITH 4 INCHES OF PEA GRAVEL, BEFORE BACK-FILLING.
12. INSULATE ALL EXISTING DRAIN LINES WHERE EXPOSED INSIDE THE BUILDING, ALL NEW DRAIN LINES, AND THE UNDERSIDES OF THE NEW DRAIN BOWLS.
13. WIRE BRUSH, PRIME & PAINT THE EXTERIOR DRAIN PIPES FROM ROOF AREAS 'A' AND 'C'. CUT AND MODIFY THE PIPES TO ACCOMMODATE NEW ROOFING. INSTALL CONCRETE SPLASH BLOCK OVER A WALKWAY PAD AT BOTTOM OF DRAIN PIPES.

CODE COMPLIANCE REQUIREMENTS:

1. INSTALL ROOFING TO MEET THE FOLLOWING MINIMUM REQUIREMENTS:
   A. NY STATE UNIFORM FIRE PREVENTION AND BUILDING CODE.
   B. UNDERWRITERS LABORATORIES INC. CLASS A EXTERNAL FIRE RATING FOR ROOF COVERING MATERIALS.
   C. UNDERWRITERS LABORATORIES INC. STANDARD 1256 FOR ROOF ASSEMBLIES WITH FOAM INSULATION.
2. INSTALL ROOFING TO COMPLY WITH THE WIND UPLIFT REQUIREMENTS OF THE NY STATE UNIFORM FIRE PREVENTION AND BUILDING CODE:
   RISK CATEGORY III
   BASIC WIND SPEED 120 MPH
   EXPOSURE CATEGORY B
   BUILDING HEIGHT 30 FT.
3. INSTALL ROOFING AS INDICATED TO RESIST THE FOLLOWING UPLIFT LOADS, CALCULATED IN ACCORDANCE WITH ASCE 7 USING A SAFETY FACTOR OF 2:
   FIELD ZONE: 60 PSF
   PERIMETER ZONE: 100 PSF
   CORNER ZONE: 150 PSF
4. FABRICATE AND INSTALL ROOF PERIMETER FLASHINGS THAT COMPLY WITH THE NY STATE UNIFORM FIRE PREVENTION AND BUILDING CODE AND WITH ANSI/SPRI ES-1 "WIND STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS".

LEGEND:

- A — ROOF AREA DESIGNATION
- ROOF DRAIN (SEE DET. 23/A-112)
- P — PORTAL PLUS CURB (SEE DET. 24/A-112)
- V — VENT PIPE (SEE DET. 25/A-113)
- EXHAUST FAN (SEE DET. 26/A-113)
- H — ROOF HATCH (SEE DETS. 27&28/A-113)
- S — SKYLIGHTS (SEE DET. 29/A-113)
- E — NEW EVECO VENTILATORS (SEE DET. 30/A-113)
- SCUPPER & LEADER (SEE DET. 31/A-113)
- OS — OVERFLOW SCUPPER (SEE DET. 32/A-113)
- ROOF LADDER (SEE DET. 33/A-113)
- NEW GUARD RAIL (SEE DET. 36/A-113)
- RTU-# — NEW RTU ON METAL DECK (SEE DET. 37/A-114)
- ERU-1 — NEW ERU UNIT ON METAL DECK (SEE DET. 38/A-114)
- DUCT WATERPROOFING (SEE DET. 39/A-114)
- AC — AC CONDENSER (SEE GENERAL NOTE 4)
- P — ANTENNA (SEE GENERAL NOTE 9)
- SD — SATELLITE DISH (SEE GENERAL NOTE 9)
- UD — NEW UNDERGROUND DRAIN LINE (SEE GENERAL NOTE 11)
- CB — EXISTING CATCH BASIN
- H.P. — INSULATION HIGH POINT
- EXISTING INSULATION SLOPE
- TAPERED ISOCYANURATE INSULATION, SLOPE 1/8" PER FT. SEE R-VALUE CHART FOR MINIMUM THICKNESS
- CRICKET- SLOPE 1/4" PER FT
- WALKWAY PADS

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER ANY ITEM ON THIS PLAN IN ANY WAY. IF ANY ITEM IS ALTERED, THE ALTERING ARCHITECT MUST STAMP AND SIGN THE PLAN AND ADD A NOTATION ALONG WITH A DESCRIPTION OF THE ALTERATION. THE SIGNATURE AND DATE. COPYRIGHT © 2019

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ITG Larson, INC
155 Lafayette Ave
White Plains, NY 10603

ENGINEER STAMP:

STATE OF NEW YORK — JACK EISENBACH — LICENSED PROFESSIONAL ENGINEER — No. 059445

YONKERS PUBLIC SCHOOLS
INTERIOR UPGRADES, PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School

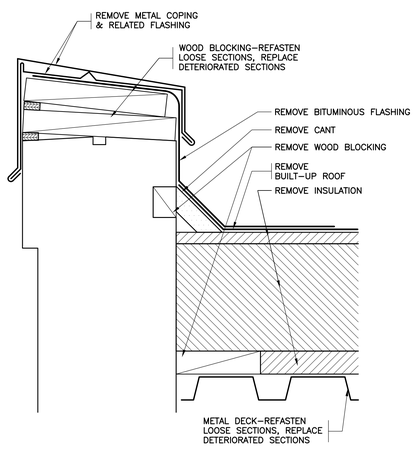
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	10/15/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ROOF PLAN

SHEET NO.
A-110

FILE PATH - L:\Current Projects\YPS MLK 2023\A-110 YPS MLK Roof Plan No Elevator.dwg



1 EXISTING PARAPET
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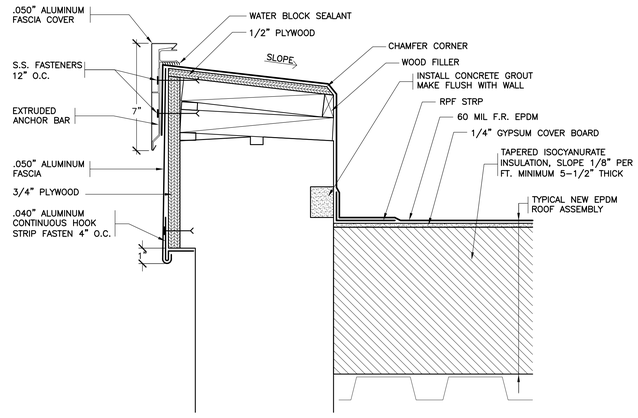

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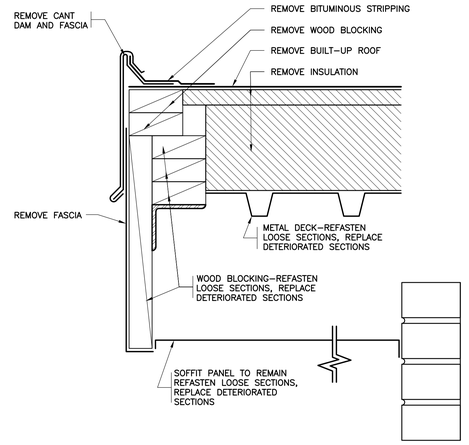

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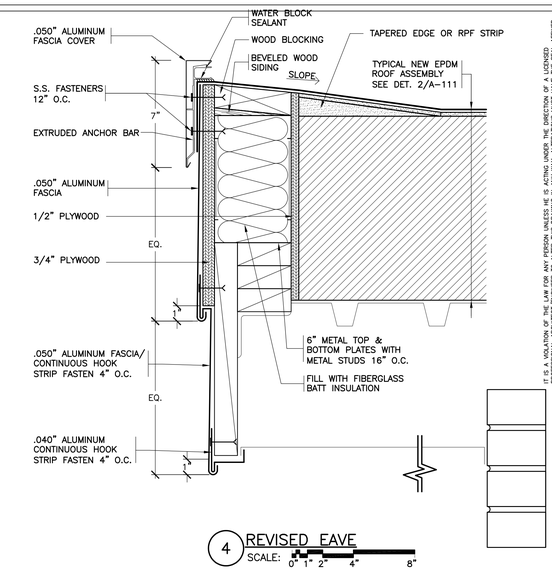

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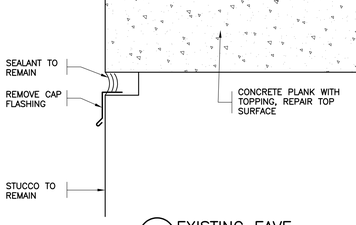

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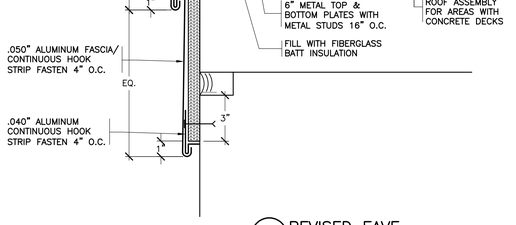

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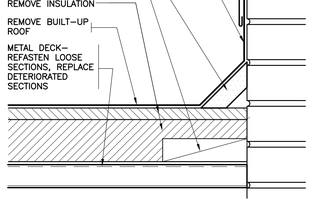

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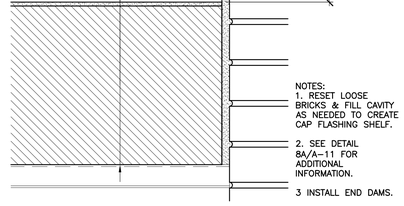

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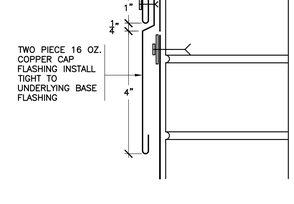
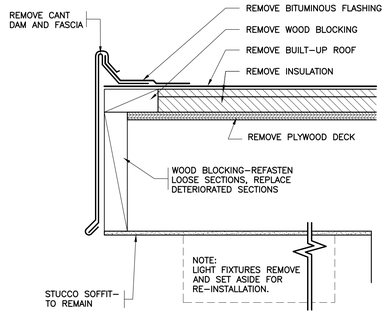
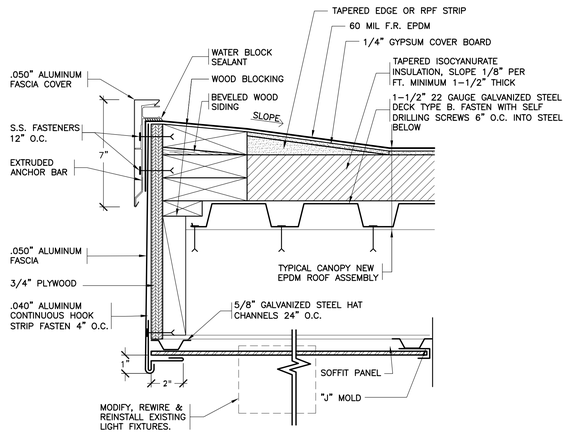


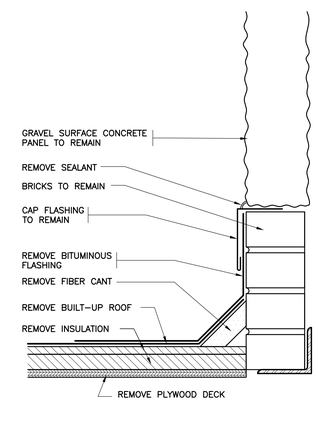
8A REVISED CAP FLASHING
SCALE: 0" 1/2" 1" 2" 4"



9 EXISTING CANOPY EAVE
SCALE: 0" 1" 2" 4" 8"



10 REVISED CANOPY EAVE
SCALE: 0" 1" 2" 4" 8"



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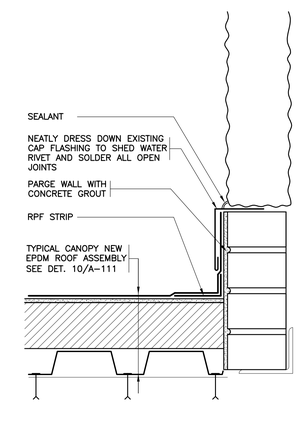

12 REVISED CANOPY BASE
SCALE: 0" 1" 2" 4" 8"

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STATE OF NEW YORK · JACK EISENBACH · LICENSED PROFESSIONAL ENGINEER · NO. 099445

YONKERS PUBLIC SCHOOLS
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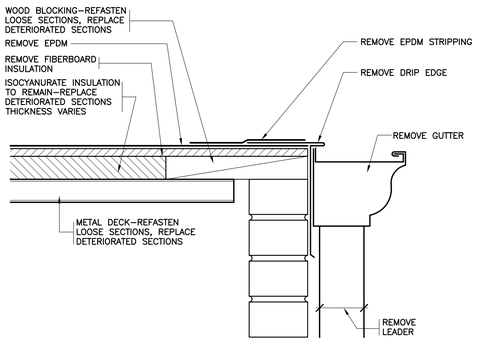
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-232-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	10/15/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

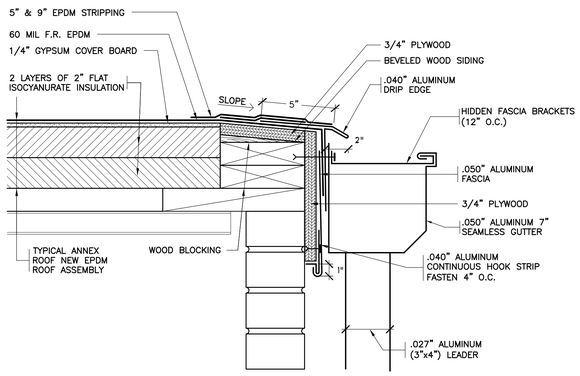
SHEET TITLE
ROOF DETAILS

SHEET NO.
A-111

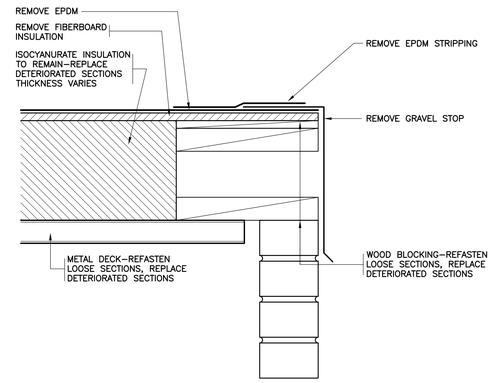
FILE PATH – L:\Current Projects\YPS MLK 2023\A–111YPS MLK Roof Det 1–12.dwg



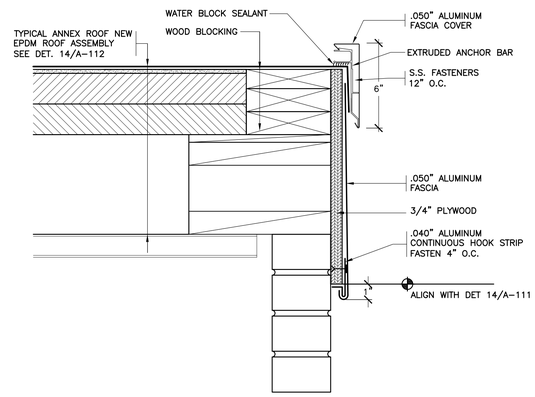
13 EXISTING GUTTER EAVE
SCALE: 0 1" 2" 4" 8"



14 REVISED GUTTER EAVE
SCALE: 0 1" 2" 4" 8"



15 EXISTING RAKE
SCALE: 0 1" 2" 4" 8"



16 REVISED RAKE
SCALE: 0 1" 2" 4" 8"

17 EXISTING ELEVATOR SHAFT EAVE
SCALE: 0 1" 2" 4" 8"

18 REVISED ELEVATOR SHALF EAVE
SCALE: 0 1" 2" 4" 8"

19 EXISTING BASE AT ELEVATOR SHAFT
SCALE: 0 1" 2" 4" 8"

20 REVISED BASE AT ELEVATOR SHAFT
SCALE: 0 1" 2" 4" 8"

21 EXISTING BASE
NOT TO SCALE

NOTES:
1. RESET LOOSE BRICKS & FILL CAVITY AS NEEDED TO CREATE CAP FLASHING SHELF.

2. SEE DETAIL 8A/A–111 FOR ADDITIONAL INFORMATION.

3 INSTALL END DAMS.

22 REVISED BASE
NOT TO SCALE

NOTES:
1. REMOVE EXISTING ROOF DRAINS AND RELATED FLASHINGS.

2. INSTALL TAPERED EDGE STRIPS & INSULATION FILLERS TO CREATE A MINIMUM 4 FT. x 4 FT. SQUARE SUMP AT EACH DRAIN.

3. INSULATE THE DRAIN BOWL AND NEW PIPE.

23 REVISED ROOF DRAIN
SCALE: 0 1" 2" 4" 8"

24 NEW PORTAL PLUS CURB
SCALE: 0 1" 2" 4" 8"

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White Plains, NY 10603

ENGINEER STAMP:

STATE OF NEW YORK · JACK EISENBACH · No. 099435 · LICENSED PROFESSIONAL ENGINEER

YONKERS PUBLIC SCHOOLS
INTERIOR UPGRADES, PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School

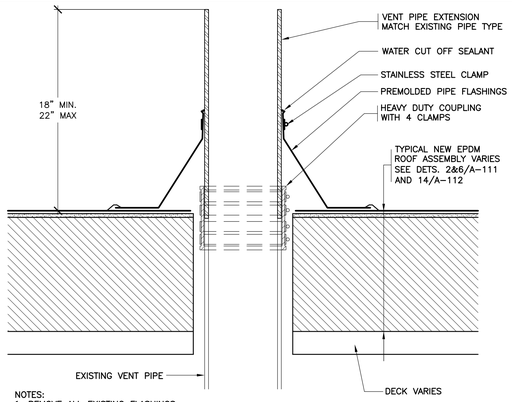
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-222-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	10/15/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ROOF DETAILS

SHEET NO.
A-112

FILE PATH: –L:\Current Projects\YPS MLK 2023\A–112 YPS MLK Roof Det 13–24.dwg

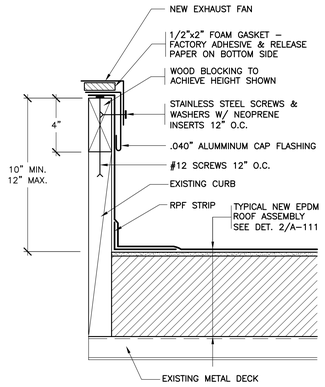


NOTES:
1. REMOVE ALL EXISTING FLASHINGS.

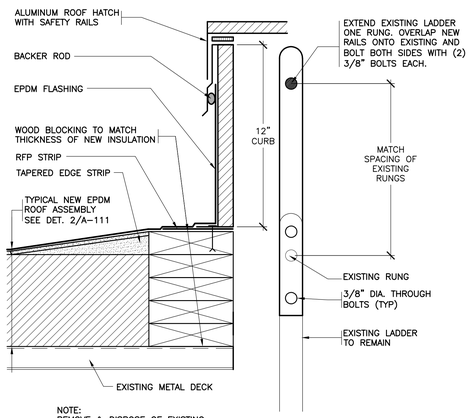
2. REMOVE KENNEDY COUPLINGS AND EXTEND VENT PIPES TO MEET MIN. HEIGHT REQUIREMENT.

3. INSTALL PREMOLDED PIPE FLASHINGS WHENEVER POSSIBLE. WHEN PREMOLDED PIPE FLASHINGS CANNOT BE INSTALLED USE FIELD WRAPPED FLASHINGS.

25 REVISED VENT PIPE
SCALE: 0 1" 2" 4" 8"

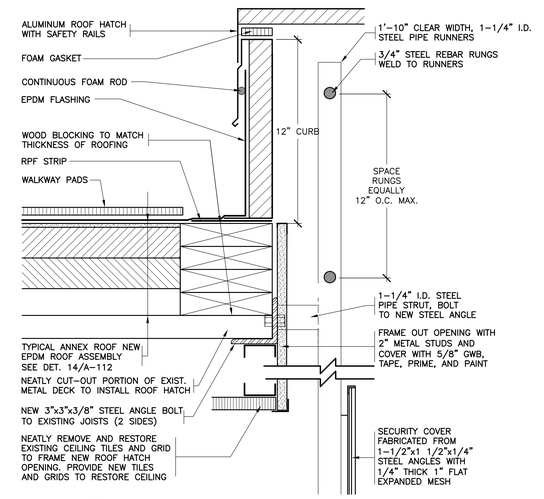


26 REVISED EXHAUST FAN
SCALE: 0 1" 2" 4" 8"



NOTE:
REMOVE & DISPOSE OF EXISTING ROOF HATCH, CURB AND RELATED FLASHINGS.

27 REVISED ROOF HATCH
SCALE: 0 1" 2" 4" 8"

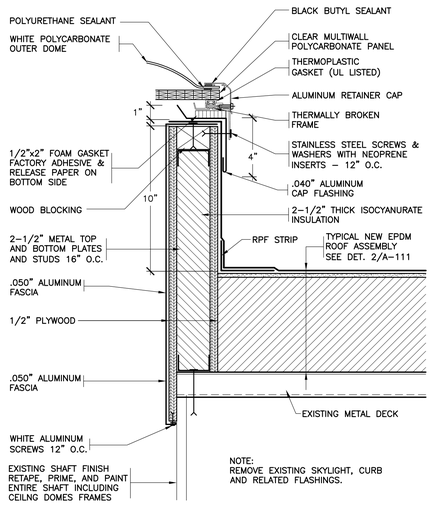


NOTES:
1. PRIME & PAINT ENTIRE LADDER ASSEMBLY AFTER FABRICATION. ORIENT LADDER & HATCH FOR PROPER EGRESS TO ROOF.

2. INSTALL LADDER AND HATCH AGAINST WALL IN STAIR '1A'. BOLT LADDER TO FLOOR WITH 1/2" X 4" STAINLESS STEEL EXPANSION BOLTS.

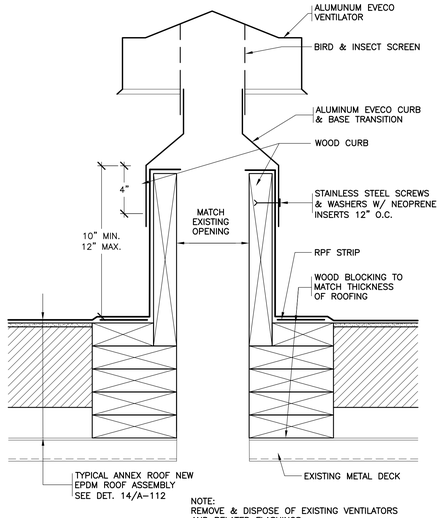
3. LADDER SHALL BE OSHA COMPLIANT.

28 NEW ROOF HATCH @ ANNEX ROOF
SCALE: 0 1" 2" 4" 8"



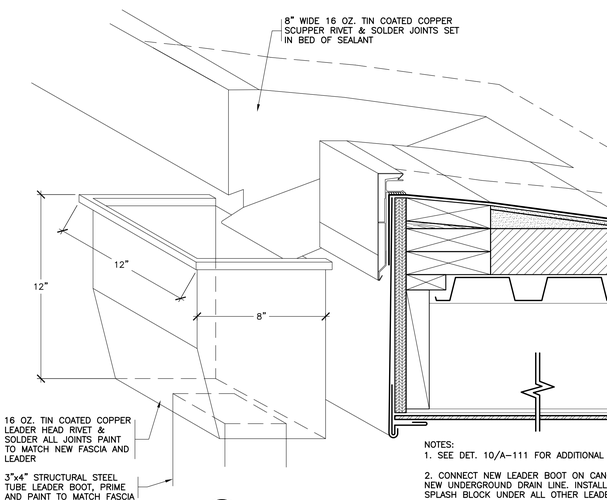
NOTE:
REMOVE EXISTING SKYLIGHT, CURB AND RELATED FLASHINGS.

29 REVISED SKYLIGHT
SCALE: 0 1" 2" 4" 8"



NOTE:
REMOVE & DISPOSE OF EXISTING VENTILATORS AND RELATED FLASHINGS.

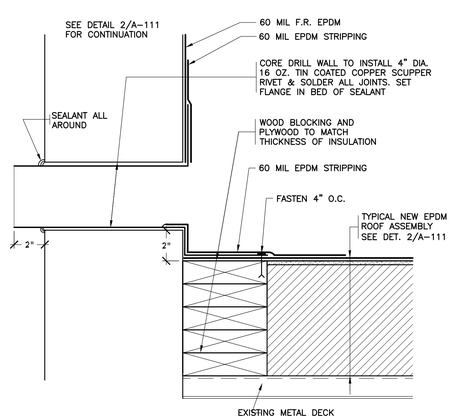
30 NEW EVCO VENTILATOR
SCALE: 0 1" 2" 4" 8"



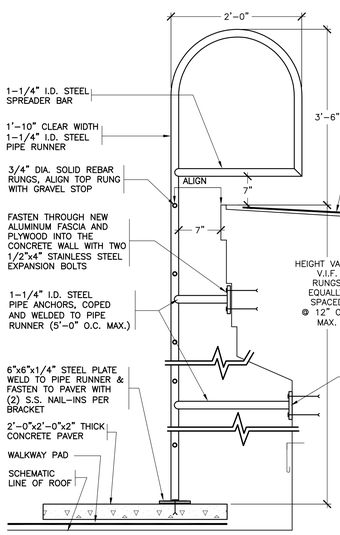
NOTES:
1. SEE DET. 10/A-111 FOR ADDITIONAL INFORMATION.

2. CONNECT NEW LEADER BOOT ON CANOPY 'G' TO NEW UNDERGROUND DRAIN LINE. INSTALL CONCRETE SPLASH BLOCK UNDER ALL OTHER LEADER BOOTS.

31 REVISED SCUPPER
SCALE: 0 1" 2" 4" 8"



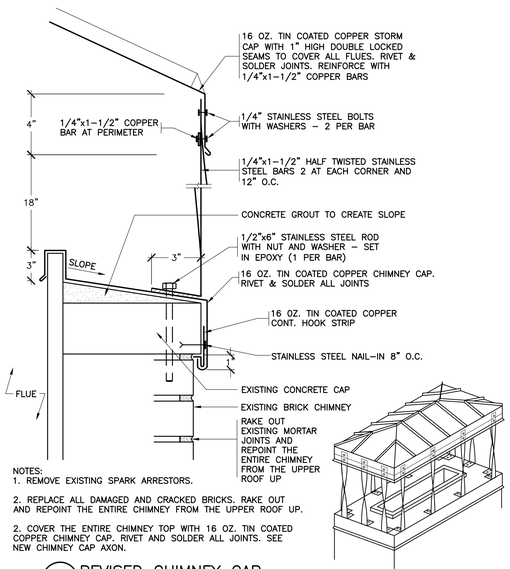
32 REVISED OVERFLOW SCUPPER
SCALE: 0 1" 2" 4" 8"



NOTES:
1. GRIND ALL WELDS SMOOTH AND HOT DIP GALVANIZE ENTIRE ASSEMBLY AFTER FABRICATION.

2. LADDER SHALL BE OSHA COMPLIANT.

33 NEW ROOF LADDER
SCEMATIC: N.T.S.



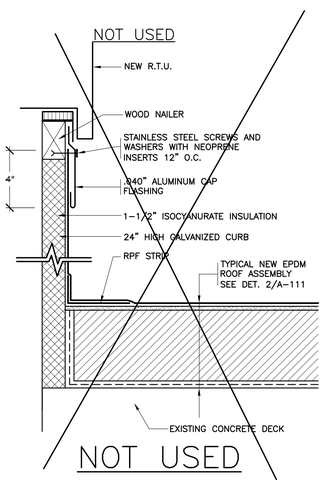
NOTES:
1. REMOVE EXISTING SPARK ARRESTORS.

2. REPLACE ALL DAMAGED AND CRACKED BRICKS. RAKE OUT AND REPOINT THE ENTIRE CHIMNEY FROM THE UPPER ROOF UP.

2. COVER THE ENTIRE CHIMNEY TOP WITH 16 OZ. TIN COATED COPPER CHIMNEY CAP. RIVET AND SOLDER ALL JOINTS. SEE NEW CHIMNEY CAP AXON.

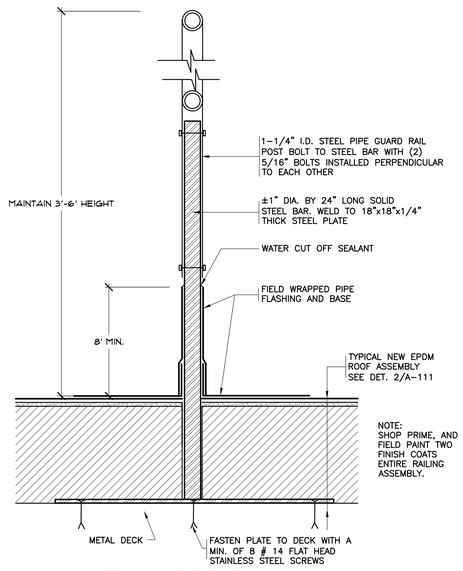
34 REVISED CHIMNEY CAP
SCHEMATIC: N.T.S.

CHIMNEY CAP AXON.
SCHEMATIC: N.T.S.



NOT USED

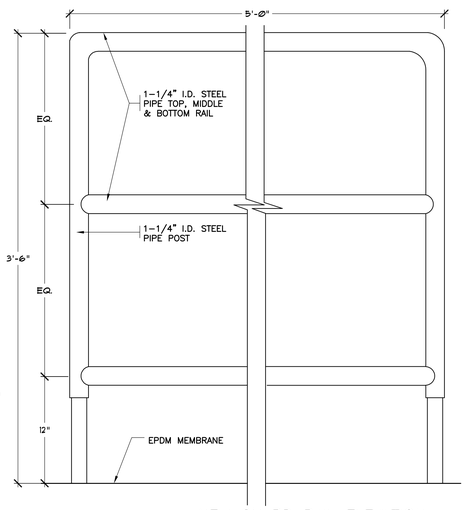
35 NEW R.T.U. CURB
NOT TO SCALE



NOTE:
SHOP PRIME, AND FIELD PAINT TWO FINISH COATS ENTIRE RAILING ASSEMBLY.

TYPICAL POST FLASHING
SCHEMATIC: N.T.S.

36 NEW GUARD RAIL ASSEMBLY
SCHEMATIC: N.T.S.



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

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CHECKED BY	JE
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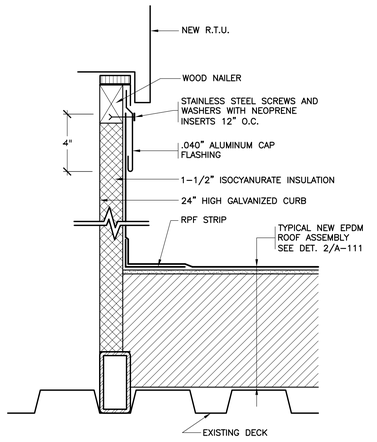
SCALE	AS SHOWN

SHEET TITLE
ROOF DETAILS

SHEET NO.
A-113

FILE PATH – L:\Current Projects\YPS MLK 2023\A-113 YPS MLK Roof Det 25-36.dwg



37 NEW R.T.U. CURB
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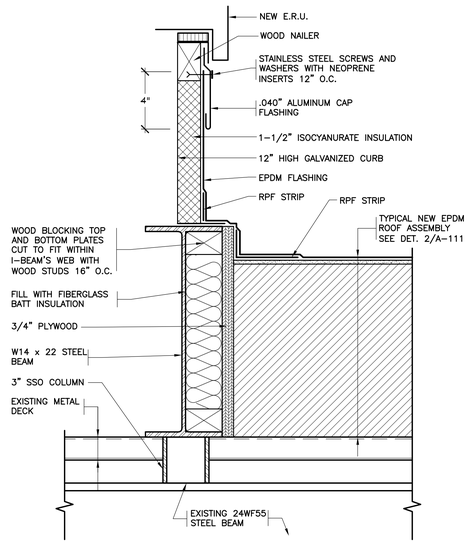
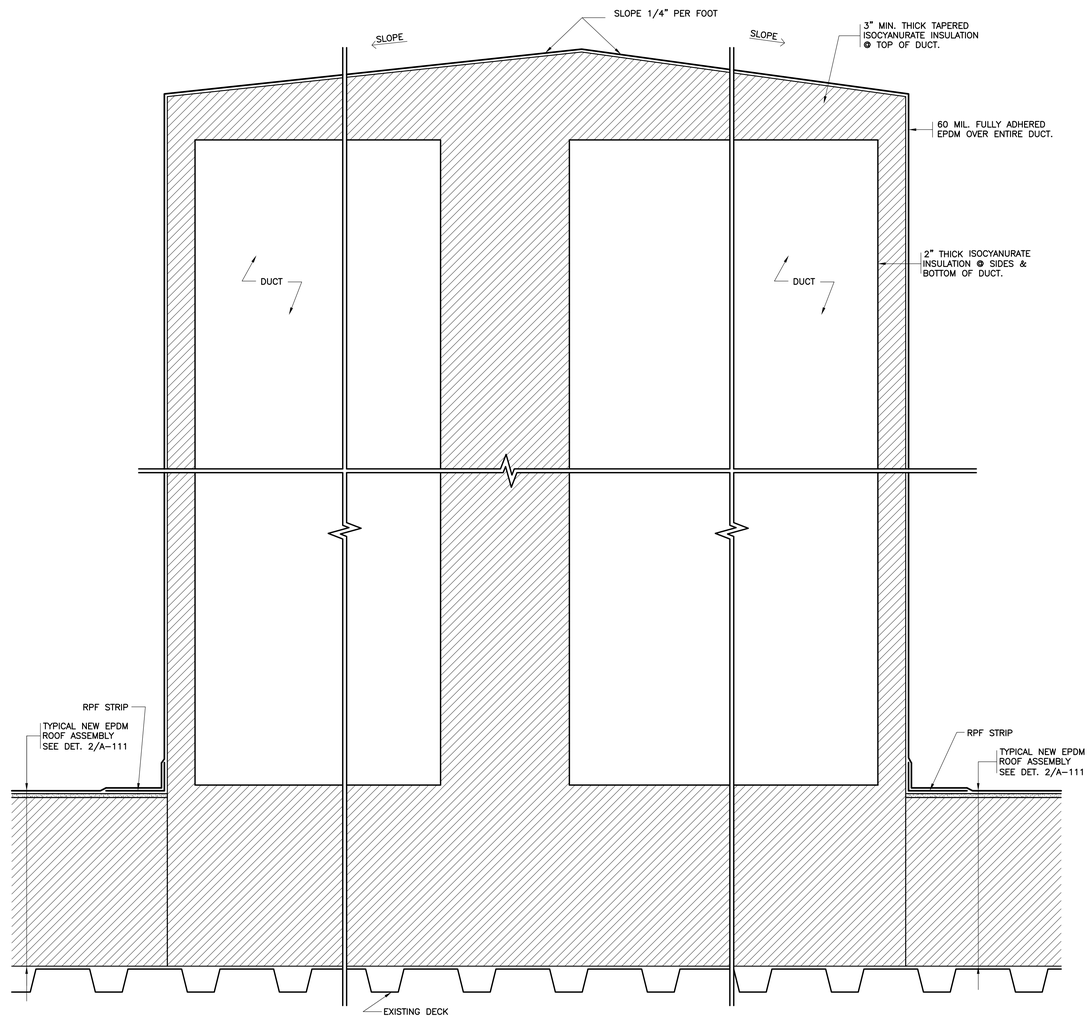


38 NEW E.R.U. CURB
SCALE: 0 1" 2" 4" 8"



39 DUCT FLASHING
SCALE: N.T.S.

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ENGINEER STAMP:

STATE OF NEW YORK · JACK EISENBACH · LICENSED PROFESSIONAL ENGINEER · No. 090445

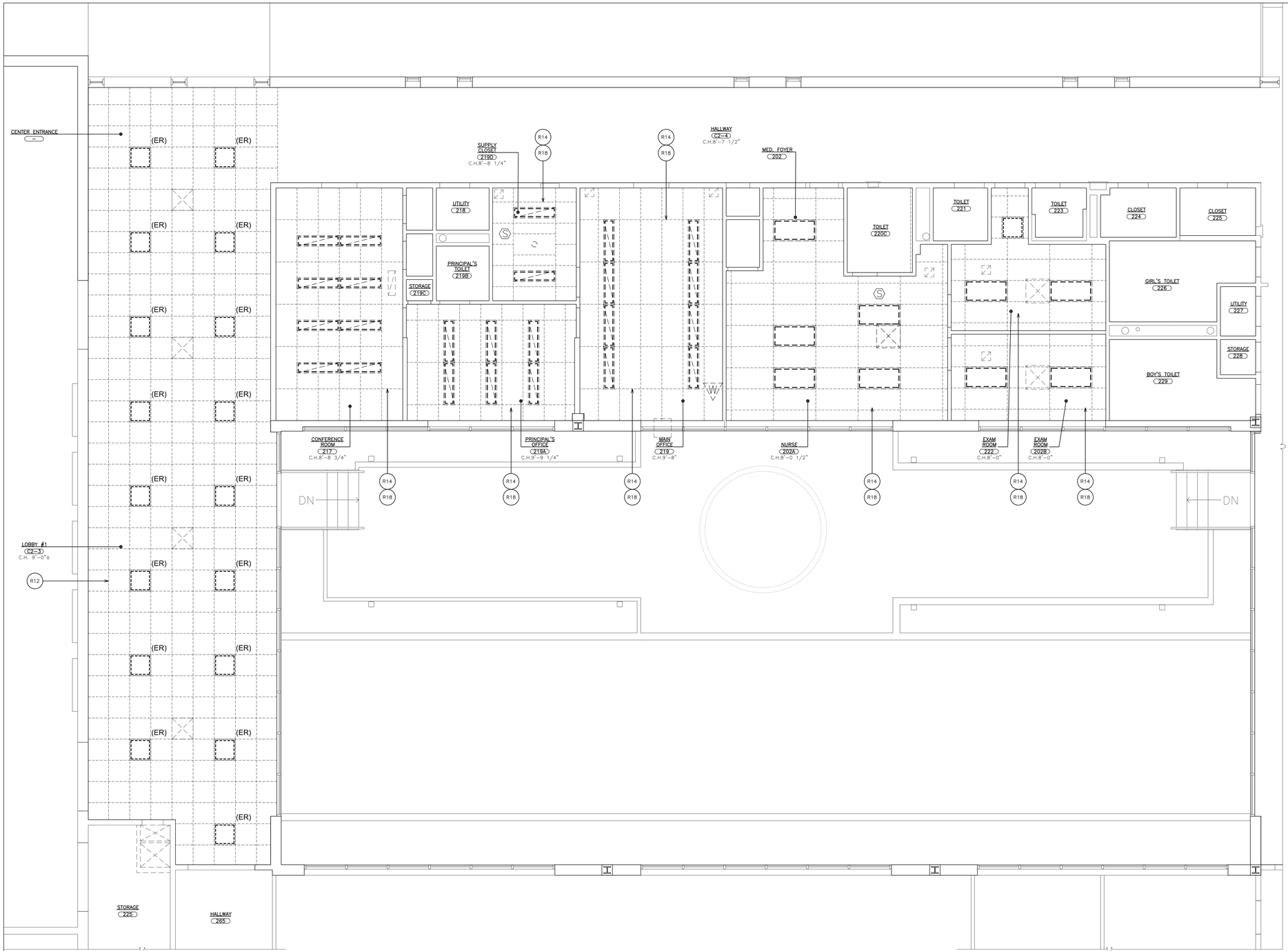
YONKERS PUBLIC SCHOOLS
INTERIOR UPGRADES, PART 3 OF ROOF
HEATING PLANT, WINDOW REPLACEMENT &
INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	10/15/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ROOF DETAILS

SHEET NO.
A-114

FILE PATH - L:\Current Projects\YPS MLK 2023\A-114 YPS MLK Roof Det 37-.dwg

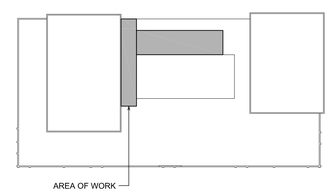


1 SECOND FLOOR REMOVAL REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 16'

REMOVAL NOTES:
(COORDINATE REMOVALS W/ ABATEMENT CONTRACTOR)

- R1 REMOVE EXISTING DOORS, METAL FRAMES, TRANSOMS, HARDWARE, SADDLES AND ALL RELATED ITEMS. EXISTING LINTEL TO REMAIN. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R2 SAW-CUT AND REMOVE CMU PARTITION(S) FROM SLAB TO STRUCTURE ABOVE. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES. GRIND DOWN ANY HIGH SPOTS UNDER EXISTING WALL. FLASH PATCH SMOOTH TO ADJACENT SURFACES.
- R3 SAW-CUT AND REMOVE PORTION OF CMU PARTITION FOR INSTALLATION OF NEW DUCK WORK & LOUVER. WORK IN MANNER WHICH PROVIDE CONTINUOUS SUPPORT OF MASONRY ABOVE. SEE DETAIL 3/A500. SEE M-DWGS FOR ADDITIONAL INFORMATION.
- R4 REMOVE EXISTING DOORS, METAL FRAMES, TRANSOMS, HARDWARE, SADDLES, SIDE-LITES AND ALL RELATED ITEMS. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R5 NOT USED.
- R6 REMOVE EXISTING A/C UNIT, SLEEVE, BRACKETS, SUPPORTS, AND ALL ASSOCIATED ITEMS. TURN OVER TO OWNER.
- R7 NOT USED.
- R8 REMOVE EXISTING CHAIN LINK FENCE, POSTS, FOOTINGS, FABRIC AND ALL RELATED ITEMS.
- R9 REMOVE EXISTING STOPS, METAL PANELS, GLASS AND ALL RELATED ITEMS. PROVIDE AND INSTALL NEW METAL PANELS, STOP AND ALL RELATED ITEMS. PAINT TO MATCH DOOR FRAMES.
- R10 REMOVE PORTION OF EXISTING TOILET PARTITIONS, TO ENLARGE FOR AMBULATORY STALL. PROVIDE NEW TOILET PARTITIONS MATCH EXISTING ADJACENT COLOR AND TEXTURE. PROVIDE NEW GRABS BARS {(2)BOBRICK #B5806-42.99 & (1)#B5806-18.99 AMBULATORY EACH STALL} & ACCESSORIES.
- R11 SAW-CUT AND REMOVE PORTION OF GYPSUM BOARD & METAL STUD PARTITION(S) FOR INSTALLATION OF NEW DOOR/FRAME. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES. FLASH PATCH SMOOTH TO ADJACENT SURFACES.
- R12 REMOVE ALL ACOUSTICAL CEILING PANELS, SUSPENSION SYSTEM. EXISTING LIGHTING & DEVICE CEILING MOUNTED TO BE REMOVED AND STORED. REINSTALLED UPON COMPLETION OF COMPLETION OF WORK.
- R13 SAW-CUT AND REMOVE PORTION OF CMU PARTITION(S) FOR INSTALLATION OF NEW DOOR/FRAME. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES. GRIND DOWN ANY HIGH SPOTS UNDER EXISTING WALL. FLASH PATCH SMOOTH TO ADJACENT SURFACES. WORK IN A MANNER THAT PROVIDES CONTINUOUS SUPPORT OF MASONRY ABOVE.
- R14 REMOVE EXISTING SUSPENDED CEILING ASSEMBLY (2x4 OR 2x2), SUSPENSION SYSTEM, PANELS, WALL ANGLES, SEISMIC TIES AND ALL RELATED ITEMS. COORDINATE WORK WITH E-CONTRACTOR. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R15 2x2 OR 2x4 SUSPENDED ACOUSTICAL CEILING. CONTRACTOR TO CAREFULLY REMOVE AND STORE EXISTING CEILING PANELS AND GRID SYSTEM AS REQUIRED TO ACCESS WORK AREAS. REPLACE ANY DAMAGED CEILING PANELS AND OR GRID. REINSTALL GRID AND PANELS UPON COMPLETION OF WORK. CONTRACTOR TO PROVIDE 2 BOXES OF EACH TYPE OF ACOUSTICAL CEILING PANELS (MATCH EXISTING) TO OWNER.
- R16 REMOVE EXISTING MARKER BOARDS, TACK BOARDS & ALL RELATED ITEMS. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R17 REMOVE EXISTING VCT FLOOR TILE, (MULTIPLE LAYER MAY EXIST) WALL BASE, TRANSITION STRIPS, MASTIC AND SUBSTRATE DOWN TO EXISTING SLAB. MECHANICALLY PROFILE 100% OF EXISTING FLOOR SLAB FOR NEW FLOOR FINISHES.
- R18 REMOVE EXISTING LIGHT FIXTURE & CEILING MOUNTED DEVICES. SEE ELECTRICAL DRAWINGS.



KEY PLAN
SCALE N.T.S.

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ENGINEER STAMP:

STATE OF NEW YORK · JACK EISENBACH · LICENSED PROFESSIONAL ENGINEER · NO. 099445

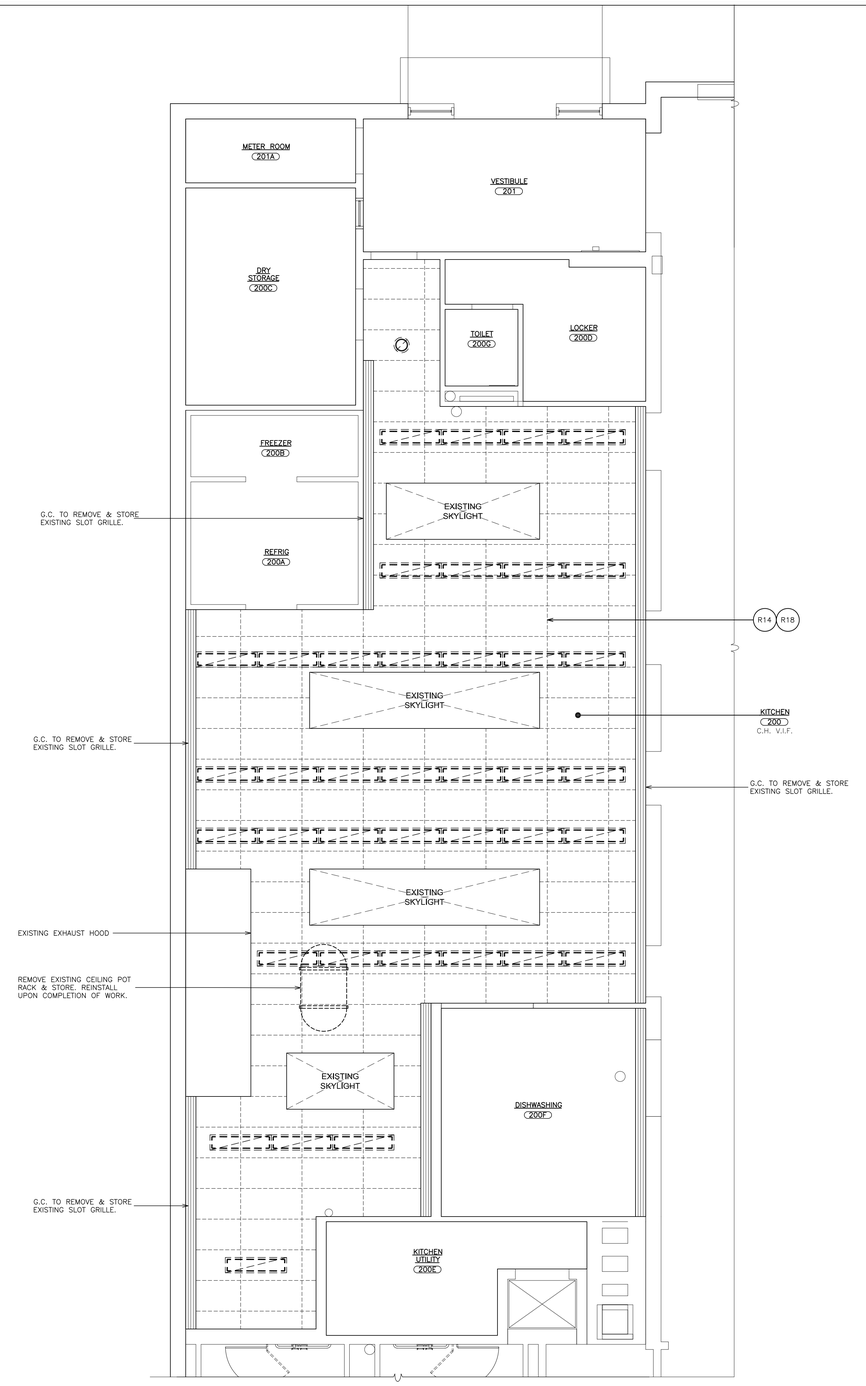
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
SECOND FLOOR REMOVAL REFLECTED CEILING PLAN

SHEET NO.
AR200

FILE PATH = I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\I-F&G\20378.03 Phase 3 HVAC\20378.00-AR200-201.dwg



ALTERNATE
1 SECOND FLOOR REMOVAL REFLECTED CEILING PLAN

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0 2' 4' 8' 16'

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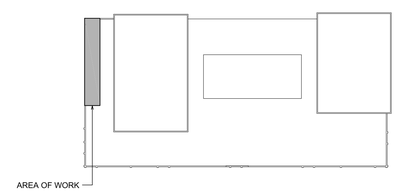

KEY PLAN
SCALE N.T.S.

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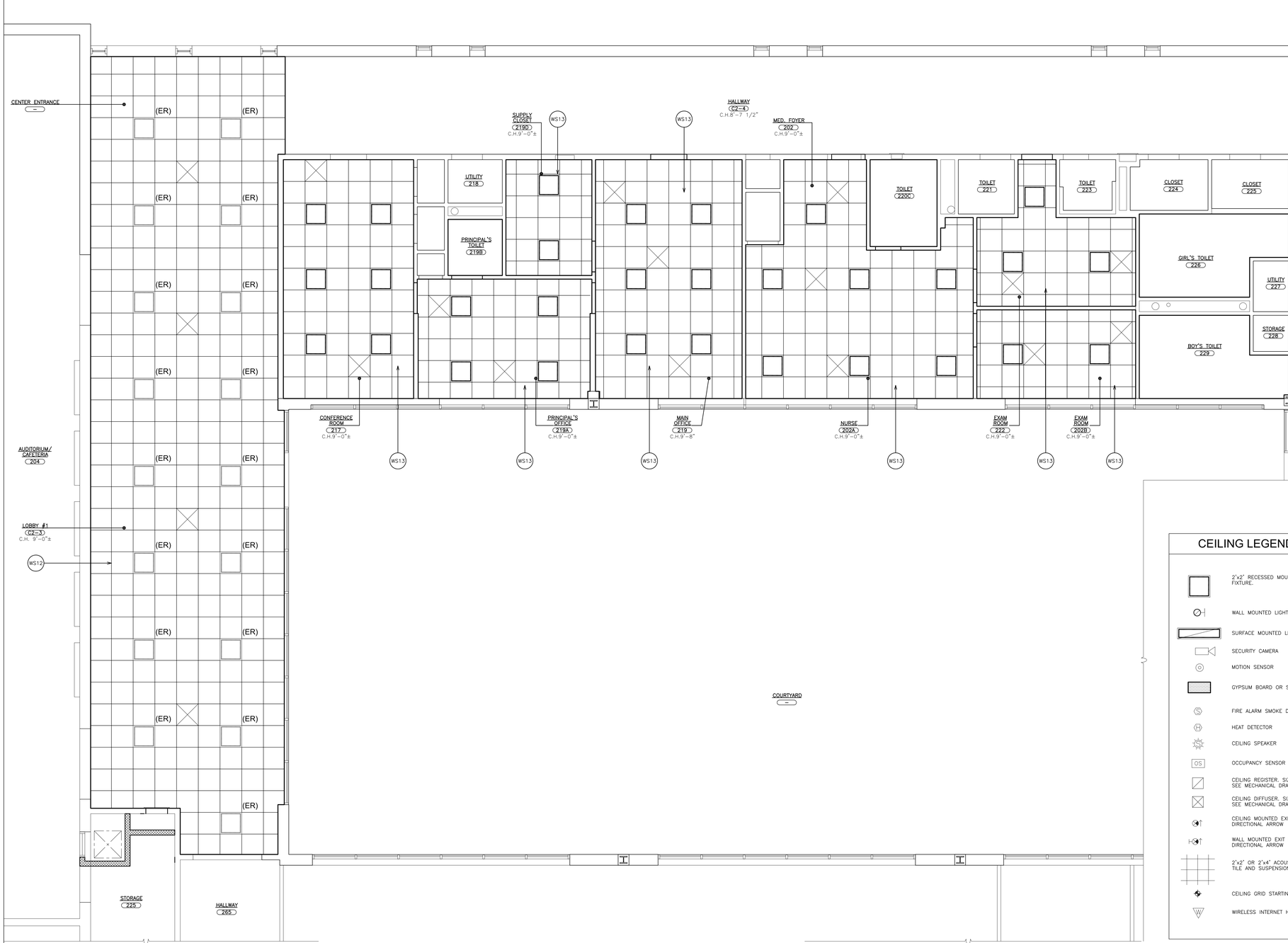
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ALTERNATE
SECOND FLOOR REMOVAL REFLECTED CEILING PLAN

SHEET NO.
AR201

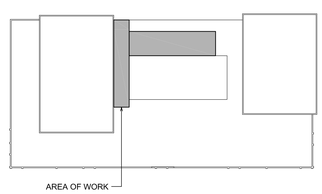
FILE PATH =I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\1-F&O\20378.03 Phase 3 HVAC\20378.00-AR200-201.dwg



4 SECOND FLOOR REFLECTED CEILING PLAN

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

0 2' 4' 8' 16'



KEY PLAN

SCALE N.T.S.

CEILING LEGEND

- 2'x2' RECESSED MOUNTED LIGHT FIXTURE.
- WALL MOUNTED LIGHT FIXTURE.
- SURFACE MOUNTED LIGHT FIXTURE
- SECURITY CAMERA
- MOTION SENSOR
- GYPSUM BOARD OR SOFFIT
- FIRE ALARM SMOKE DETECTOR
- HEAT DETECTOR
- CEILING SPEAKER
- OCCUPANCY SENSOR (OS)
- CEILING REGISTER. SIZE VARIES. SEE MECHANICAL DRAWINGS.
- CEILING DIFFUSER. SIZE VARIES. SEE MECHANICAL DRAWINGS.
- CEILING MOUNTED EXIT SIGN W/ DIRECTIONAL ARROW
- WALL MOUNTED EXIT SIGN W/ DIRECTIONAL ARROW
- 2'x2' OR 2'x4' ACOUSTICAL CEILING TILE AND SUSPENSION SYSTEM
- CEILING GRID STARTING POINT
- WIRELESS INTERNET HUB

WORKSCOPE NOTES:

- WS1 PROVIDE NEW LOW-E INSULATED GLASS IN EXISTING CURTAIN WALL FRAMING.
- WS2 INFILL EXISTING DUCT OPENING. SEE DETAIL 11/A525.
- WS3 REMOVE EXISTING HARDWARE MOUNTED ON EXISTING DOORS AND FRAME FOR INSTALLATION OF NEW ACCESS CONTROL HARDWARE. PROVIDE AND INSTALL NEW CARD READERS, DOOR CONTACTS, ELECTRIC STRIKE & ACCESS CONTROL SYSTEM. RUN ALL NEW WIRING WITH-IN EXISTING HOLLOW METAL DOOR FRAMES. SEE HARDWARE SCHEDULE AND SECURITY DRAWINGS FOR HARDWARE AND ADDITIONAL INFORMATION.
- WS4 NOT USED.
- WS5 NOT USED.
- WS6 NEW WALL A/C UNIT PROVIDED AND INSTALLED BY HVAC CONTRACTOR. A/C SLEEVE PROVIDED BY HVAC CONTRACTOR AND INSTALLED BY G.C. COORDINATE OPENING IN METAL PANELS WITH HVAC CONTRACTOR. SEE DETAIL C/A725
- WS7 SCRAPE, WIRE BRUSH, PRIME AND PAINT EXISTING STEEL LINTEL. COLOR TO MATCH BRICK.
- WS8 PROVIDE NEW ACOUSTICAL CEILING PANELS IN EXISTING GRID CUT AS REQUIRED. PROVIDE WALL ANGLES AND RUNNERS SUPPORTS AS REQUIRED.
- WS9 NOT USED.
- WS10 NOT USED.
- WS11 NOT USED.
- WS12 PROVIDE SUSPENDED ACOUSTICAL CEILING SYSTEM & ALL RELATED ITEMS. ELECTRICAL CONTRACTOR TO REINSTALL EXISTING LIGHT FIXTURES & CEILING MOUNTED DEVICES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE DETAILS A500.
- WS13 PROVIDE SUSPENDED ACOUSTICAL CEILING SYSTEM & ALL RELATED ITEMS. ELECTRICAL CONTRACTOR TO PROVIDE NEW LIGHT FIXTURES & CEILING MOUNTED DEVICES. COORDINATE INSTALLATION. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE DETAILS A500.
- WS14 PREPARE EXISTING WALL SURFACES FOR PAINTING. FILL ALL HOLES, CRACKS, DEPRESSIONS, ETC. AND GRIND DOWN ANY HIGH SPOTS OR PROTRUSIONS. FEATHER PATCHING MATERIAL TO PROVIDE SMOOTH TRANSITION TO ADJOINING SURFACES.
- WS15 PROVIDE CEMENT-BASED SELF-LEVELING UNDERLAYMENT TO ACHIEVE FLUSH CONDITION WITH ADJACENT FLOOR(S) ON 100% FLOOR SURFACE.
- WS16 PROVIDE FLOOR FINISH. SEE FINISH SCHEDULE AND FINISH PLANS.
- WS17 PROVIDE CMU PARTITION / INFILL. TOOTHED INTO EXISTING CMU WALL. MATCH EXISTING CMU THICKNESS.
- WS18 ELECTRICAL CONTRACTOR PROVIDE AND INSTALL MAGNETIC HOLD OPEN DEVICE. COORDINATE DOOR INSTALLATION AND SWING WITH DEVISE LOCATION.
- WS19 INSTALL NEW DOOR, FRAME AND HARDWARE. SEE DOOR DETAILS & SCHEDULE.
- WS20 NOT USED.
- WS21 INSTALL NEW 6 FT. HIGH VINYL COATED CHAIN LINK FENCE & FOOTINGS. SEE DETAIL 5/A525 AND SPECIFICATIONS.
- WS22 REMOVE EXISTING SEALANT AND BACKER ROD PERIMETER JOINT. CLEAN RESIDUE FROM EXISTING ADJACENT SURFACES. PROVIDE SEALANT AND CLOSED-CELL BACKER ROD.
- WS23 REPOINT EXISTING MASONRY JOINTS APPROXIMATELY 100 S.F. SEE DETAIL 6/A525. (REPLACE CRACKED OR LOOSE BRICK AS REQUIRED.)
- WS24 NOT USED.
- WS25 NOT USED.
- WS26 NOT USED.
- WS27 PREPARE EXISTING FOUNDATION WALL SURFACES FOR PAINTING. REMOVE EXISTING PAINT, FILL ALL HOLES, CRACKS, DEPRESSIONS, ETC. SCRAPE, WIRE BRUSH EXISTING RUSTING REBAR. APPLY EPOXY RUST ENCAPSULATING PAINT. GRIND DOWN ANY HIGH SPOTS OR PROTRUSIONS. FEATHER PATCHING MATERIAL TO PROVIDE SMOOTH TRANSITION TO ADJOINING SURFACES. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- WS28 PROVIDE 2" INSULATED METAL PANELS (IP-2) AT ABANDONED DUCT OPENINGS. PROVIDE BACKER ROD AND PERIMETER SEALANT. (PANELS TO BE INSTALLED BY ABATEMENT SUBCONTRACTOR)
- WS29 SCRAPE, WIRE BRUSH, PRIME & PAINT EXISTING STEEL HANDRAILS & GUARDRAILS.
- WS30 PROVIDE ½" COMPRESSIBLE FILLER AND POURABLE SEALANT BETWEEN PAVEMENT AND BUILDING ELEMENTS. SEE DETAIL 8/A525.
- WS31 PROVIDE METAL PARTITION / INFILL: (1) LAYER EACH SIDE 5/8" TYPE 'X' GYPSUM BOARD OVER ⅜" METAL STUDS @ 16" O.C. PROVIDE SMOOTH TRANSITION BETWEEN NEW & EXISTING PRIME & PAINT ENTIRE WALL.

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135 Locust Hill Avenue, Yonkers N.Y. 10701

S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

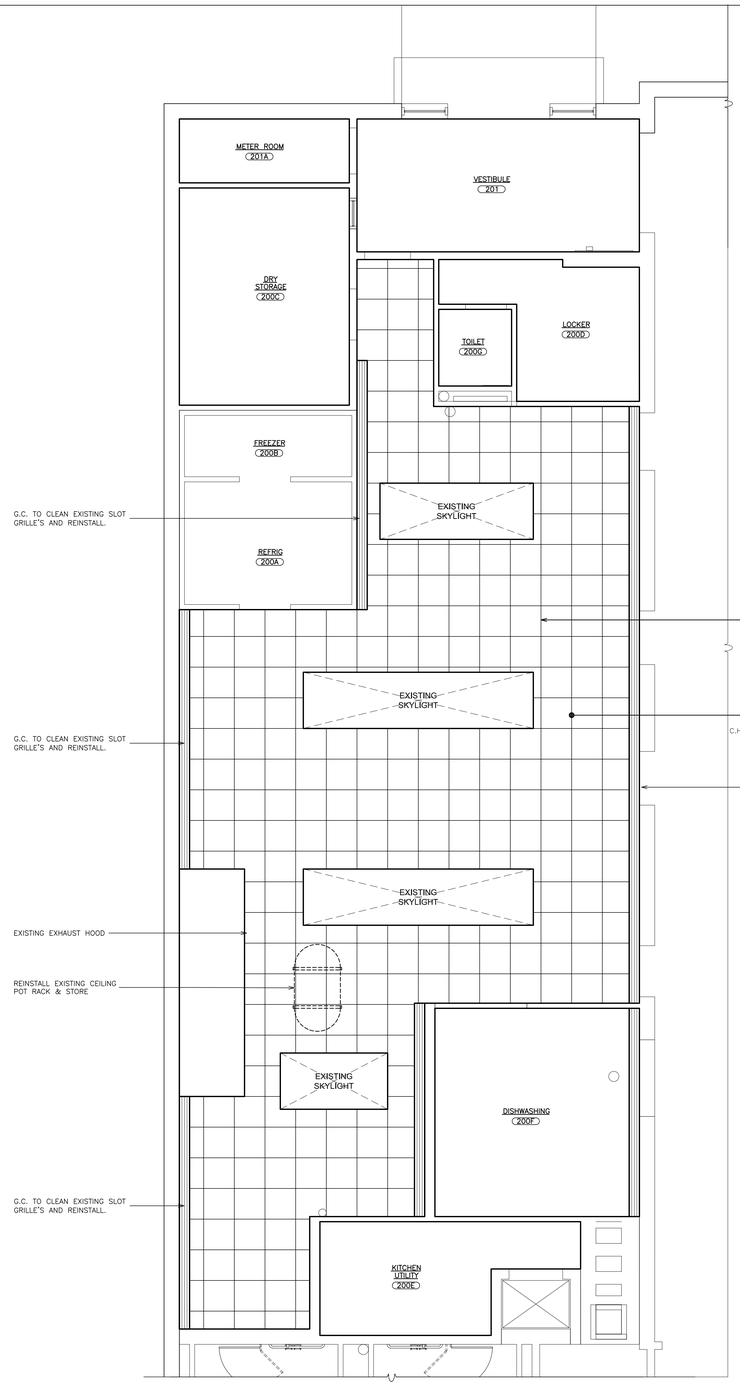
SHEET TITLE

SECOND FLOOR REFLECTED CEILING PLAN

SHEET NO.

A200

FILE PATH - I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\T-FAD\20378.03 Phase 3 HVAC\20378.00-A200-201.dwg



ALTERNATE
1 SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 16'

CEILING LEGEND

- 2'x2' RECESSED MOUNTED LIGHT FIXTURE.
- WALL MOUNTED LIGHT FIXTURE.
- SURFACE MOUNTED LIGHT FIXTURE
- SECURITY CAMERA
- MOTION SENSOR
- GYPSUM BOARD OR SOFFIT
- FIRE ALARM SMOKE DETECTOR
- HEAT DETECTOR
- CEILING SPEAKER
- OS — OCCUPANCY SENSOR
- CEILING REGISTER, SIZE VARIES. SEE MECHANICAL DRAWINGS.
- CEILING DIFFUSER, SIZE VARIES. SEE MECHANICAL DRAWINGS.
- CEILING MOUNTED EXIT SIGN W/ DIRECTIONAL ARROW
- WALL MOUNTED EXIT SIGN W/ DIRECTIONAL ARROW
- 2'x2' OR 2'x4' ACOUSTICAL CEILING TILE AND SUSPENSION SYSTEM
- CEILING GRID STARTING POINT
- WIRELESS INTERNET HUB

WORKSCOPE NOTES:

- WS1 PROVIDE NEW LOW-E INSULATED GLASS IN EXISTING CURTAIN WALL FRAMING.
- WS2 INFILL EXISTING DUCT OPENING. SEE DETAIL 11/A525.
- WS3 REMOVE EXISTING HARDWARE MOUNTED ON EXISTING DOORS AND FRAME FOR INSTALLATION OF NEW ACCESS CONTROL HARDWARE. PROVIDE AND INSTALL NEW CARD READERS, DOOR CONTACTS, ELECTRIC STRIKE & ACCESS CONTROL SYSTEM. RUN ALL NEW WIRING WITH-IN EXISTING HOLLOW METAL DOOR FRAMES. SEE HARDWARE SCHEDULE AND SECURITY DRAWINGS FOR HARDWARE AND ADDITIONAL INFORMATION.
- WS4 NOT USED.
- WS5 NOT USED.
- WS6 NEW WALL A/C UNIT PROVIDED AND INSTALLED BY HVAC CONTRACTOR. A/C SLEEVE PROVIDED BY HVAC CONTRACTOR AND INSTALLED BY G.C. COORDINATE OPENING IN METAL PANELS WITH HVAC CONTRACTOR. SEE DETAIL C/A725
- WS7 SCRAPE, WIRE BRUSH, PRIME AND PAINT EXISTING STEEL LINTEL. COLOR TO MATCH BRICK.
- WS8 PROVIDE NEW ACOUSTICAL CEILING PANELS IN EXISTING GRID CUT AS REQUIRED. PROVIDE WALL ANGLES AND RUNNERS SUPPORTS AS REQUIRED.
- WS9 NOT USED.
- WS10 NOT USED.
- WS11 NOT USED.
- WS12 PROVIDE SUSPENDED ACOUSTICAL CEILING SYSTEM & ALL RELATED ITEMS. ELECTRICAL CONTRACTOR TO REINSTALL EXISTING LIGHT FIXTURES & CEILING MOUNTED DEVICES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE DETAILS A500.
- WS13 PROVIDE SUSPENDED ACOUSTICAL CEILING SYSTEM & ALL RELATED ITEMS. ELECTRICAL CONTRACTOR TO PROVIDE NEW LIGHT FIXTURES & CEILING MOUNTED DEVICES. COORDINATE INSTALLATION. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE DETAILS A500.
- WS14 PREPARE EXISTING WALL SURFACES FOR PAINTING. FILL ALL HOLES, CRACKS, DEPRESSIONS, ETC. AND GRIND DOWN ANY HIGH SPOTS OR PROTRUSIONS. FEATHER PATCHING MATERIAL TO PROVIDE SMOOTH TRANSITION TO ADJOINING SURFACES.
- WS15 PROVIDE CEMENT-BASED SELF-LEVELING UNDERLAYMENT TO ACHIEVE FLUSH CONDITION WITH ADJACENT FLOOR(S) ON 100% FLOOR SURFACE.
- WS16 PROVIDE FLOOR FINISH. SEE FINISH SCHEDULE AND FINISH PLANS.
- WS17 PROVIDE CMU PARTITION / INFILL. TOOTHED INTO EXISTING CMU WALL. MATCH EXISTING CMU THICKNESS.
- WS18 ELECTRICAL CONTRACTOR PROVIDE AND INSTALL MAGNETIC HOLD OPEN DEVICE. COORDINATE DOOR INSTALLATION AND SWING WITH DEVISE LOCATION.
- WS19 INSTALL NEW DOOR, FRAME AND HARDWARE. SEE DOOR DETAILS & SCHEDULE.
- WS20 NOT USED.
- WS21 INSTALL NEW 6 FT. HIGH VINYL COATED CHAIN LINK FENCE & FOOTINGS. SEE DETAIL 5/A525 AND SPECIFICATIONS.
- WS22 REMOVE EXISTING SEALANT AND BACKER ROD PERIMETER JOINT. CLEAN RESIDUE FROM EXISTING ADJACENT SURFACES. PROVIDE SEALANT AND CLOSED-CELL BACKER ROD.
- WS23 REPOINT EXISTING MASONRY JOINTS APPROXIMATELY 100 S.F. SEE DETAIL 6/A525. (REPLACE CRACKED OR LOOSE BRICK AS REQUIRED.)
- WS24 NOT USED.
- WS25 NOT USED.
- WS26 NOT USED.
- WS27 PREPARE EXISTING FOUNDATION WALL SURFACES FOR PAINTING. REMOVE EXISTING PAINT, FILL ALL HOLES, CRACKS, DEPRESSIONS, ETC. SCRAPE, WIRE BRUSH EXISTING RUSTING REBAR. APPLY EPOXY RUST ENCAPSULATING PAINT. GRIND DOWN ANY HIGH SPOTS OR PROTRUSIONS. FEATHER PATCHING MATERIAL TO PROVIDE SMOOTH TRANSITION TO ADJOINING SURFACES. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- WS28 PROVIDE 2" INSULATED METAL PANELS (IP-2) AT ABANDONED DUCT OPENINGS. PROVIDE BACKER ROD AND PERIMETER SEALANT. (PANELS TO BE INSTALLED BY ABATEMENT SUBCONTRACTOR)
- WS29 SCRAPE, WIRE BRUSH, PRIME & PAINT EXISTING STEEL HANDRAILS & GUARDRAILS.
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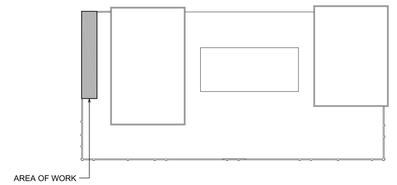
- WS31 PROVIDE METAL PARTITION / INFILL. (1) LAYER EACH SIDE 5/8" TYPE 'X' GYPSUM BOARD OVER ⅝" METAL STUDS @ 16" O.C. PROVIDE SMOOTH TRANSITION BETWEEN NEW & EXISTING PRIME & PAINT ENTIRE WALL.



KEY PLAN
SCALE N.T.S.

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ENGINEER STAMP:
STATE OF NEW YORK JACK EISENBACH 090945 LICENSED PROFESSIONAL ENGINEER

YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

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DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

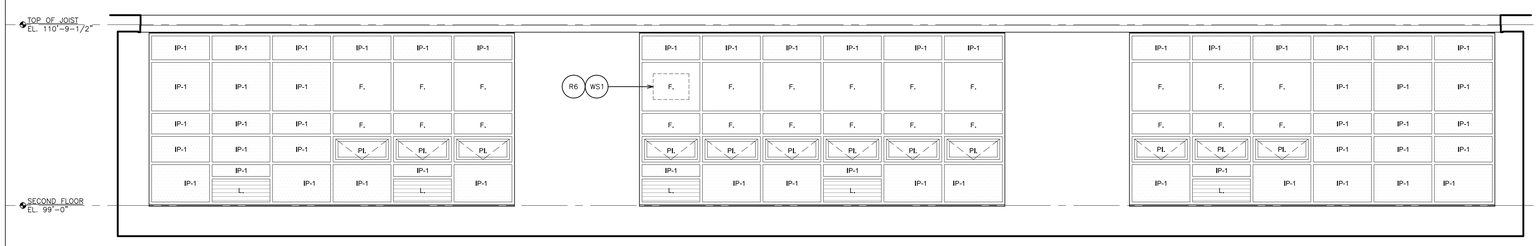
SHEET TITLE
ALTERNATE
SECOND FLOOR REFLECTED CEILING PLAN

SHEET NO.
A201

FILE PATH -I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\1-F&O\20378.03 Phase 3 HVAC\20378.00-A200-201.dwg

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

0 2' 4' 8' 16'



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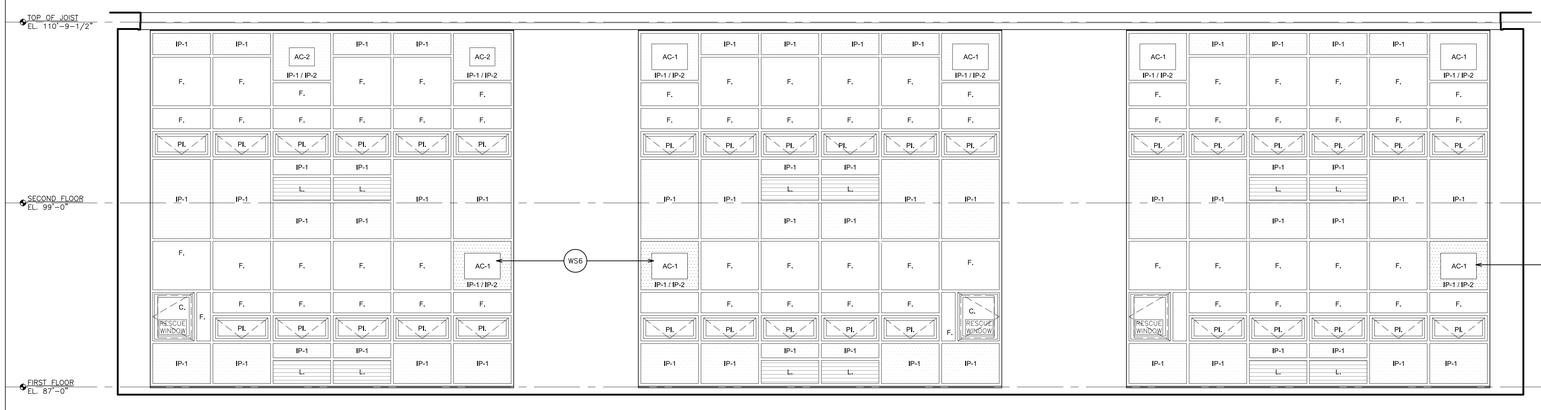
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 16'



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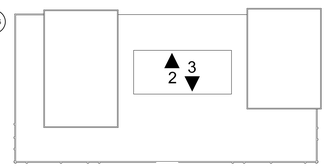

KEY PLAN
SCALE N.T.S.

REMOVAL NOTES:
(COORDINATE REMOVALS W/ ABATEMENT CONTRACTOR)

- R1 REMOVE EXISTING DOORS, METAL FRAMES, TRANSOMS, HARDWARE, SADDLES AND ALL RELATED ITEMS, EXISTING LINTEL TO REMAIN. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R2 SAW-CUT AND REMOVE CMU PARTITION(S) FROM SLAB TO STRUCTURE ABOVE. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES. GRIND DOWN ANY HIGH SPOTS UNDER EXISTING WALL. FLASH PATCH SMOOTH TO ADJACENT SURFACES.
- R3 SAW-CUT AND REMOVE PORTION OF CMU PARTITION FOR INSTALLATION OF NEW DUCK WORK & LOUVER. WORK IN MANNER WHICH PROVIDE CONTINUOUS SUPPORT OF MASONRY ABOVE. SEE DETAIL 3/A500. SEE M-DWGS FOR ADDITIONAL INFORMATION.
- R4 REMOVE EXISTING DOORS, METAL FRAMES, TRANSOMS, HARDWARE, SADDLES, SIDE-LITES AND ALL RELATED ITEMS. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R5 NOT USED.
- R6 REMOVE EXISTING A/C UNIT, SLEEVE, BRACKETS, SUPPORTS, AND ALL ASSOCIATED ITEMS. TURN OVER TO OWNER.
- R7 NOT USED.
- R8 REMOVE EXISTING CHAIN LINK FENCE, POSTS, FOOTINGS, FABRIC AND ALL RELATED ITEMS.
- R9 REMOVE EXISTING STOPS, METAL PANELS, GLASS AND ALL RELATED ITEMS. PROVIDE AND INSTALL NEW METAL PANELS, STOP AND ALL RELATED ITEMS. PAINT TO MATCH DOOR FRAMES.
- R10 REMOVE PORTION OF EXISTING TOILET PARTITIONS, TO ENLARGE FOR AMBULATORY STALL. PROVIDE NEW TOILET PARTITIONS MATCH EXISTING ADJACENT COLOR AND TEXTURE. PROVIDE NEW GRABS BARS [(2)BOBRICK #B5806-42.99 & (1)#B5806-18.99 AMBULATORY EACH STALL] & ACCESSORIES.
- R11 SAW-CUT AND REMOVE PORTION OF GYPSUM BOARD & METAL STUD PARTITION(S) FOR INSTALLATION OF NEW DOOR/FRAME. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES. FLASH PATCH SMOOTH TO ADJACENT SURFACES.
- R12 REMOVE ALL ACOUSTICAL CEILING PANELS, SUSPENSION SYSTEM. EXISTING LIGHTING & DEVICE CEILING MOUNTED TO BE REMOVED AND STORED. REINSTALLED UPON COMPLETION OF COMPLETION OF WORK.
- R13 SAW-CUT AND REMOVE PORTION OF CMU PARTITION(S) FOR INSTALLATION OF NEW DOOR/FRAME. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES. GRIND DOWN ANY HIGH SPOTS UNDER EXISTING WALL. FLASH PATCH SMOOTH TO ADJACENT SURFACES. WORK IN A MANNER THAT PROVIDES CONTINUOUS SUPPORT OF MASONRY ABOVE.
- R14 REMOVE EXISTING SUSPENDED CEILING ASSEMBLY (2x4 OR 2x2), SUSPENSION SYSTEM, PANELS, WALL ANGLES, SEISMIC TIES AND ALL RELATED ITEMS. COORDINATE WORK WITH E-CONTRACTOR. PATCH ALL DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R15 2x2 OR 2x4 SUSPENDED ACOUSTICAL CEILING. CONTRACTOR TO CAREFULLY REMOVE AND STORE EXISTING CEILING PANELS AND GRID SYSTEM AS REQUIRED TO ACCESS WORK AREAS. REPLACE ANY DAMAGED CEILING PANELS AND OR GRID. REINSTALL GRID AND PANELS UPON COMPLETION OF WORK. CONTRACTOR TO PROVIDE 2 BOXES OF EACH TYPE OF ACOUSTICAL CEILING PANELS (MATCH EXISTING) TO OWNER.
- R16 REMOVE EXISTING MARKER BOARDS, TACK BOARDS & ALL RELATED ITEMS. PATCH DISTURBED SURFACES TO MATCH EXISTING ADJACENT SURFACES.
- R17 REMOVE EXISTING VCT FLOOR TILE, (MULTIPLE LAYER MAY EXIST) WALL BASE, TRANSITION STRIPS, MASTIC AND SUBSTRATE DOWN TO EXISTING SLAB. MECHANICALLY PROFILE 100% OF EXISTING FLOOR SLAB FOR NEW FLOOR FINISHES.
- R18 REMOVE EXISTING LIGHT FIXTURE & CEILING MOUNTED DEVICES. SEE ELECTRICAL DRAWINGS.

WORKSCOPE NOTES:

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- WS2 INFILL EXISTING DUCT OPENING. SEE DETAIL 11/A525.
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JACK EISENBACH
NO. 095845
LICENSED PROFESSIONAL ENGINEER

YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

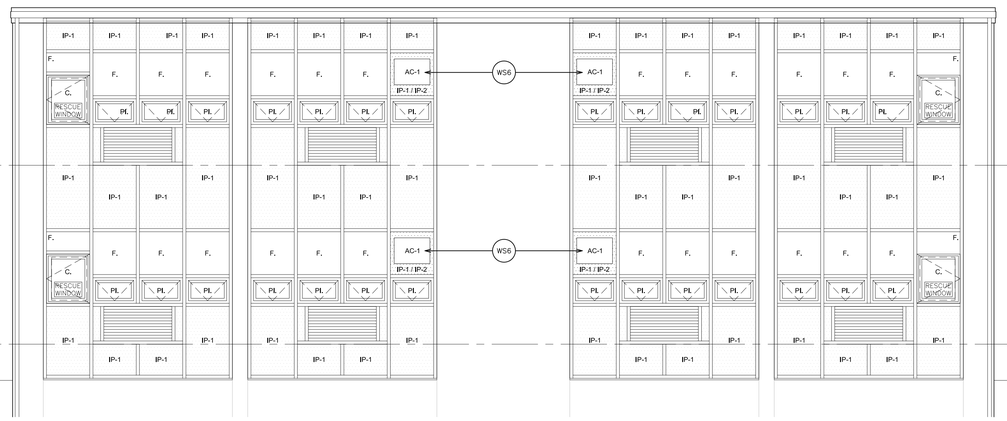
SHEET TITLE
MAIN BUILDING EXTERIOR ELEVATIONS

SHEET NO.
A300

FILE PATH = I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\1-F&O\20378.03 Phase 3 HVAC\20378.00-A300-301.dwg

4 EXTERIOR ELEVATION cont.
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 16'



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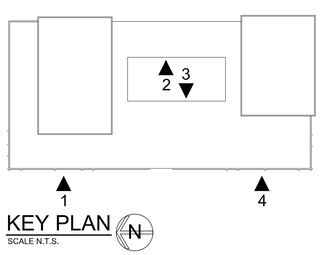
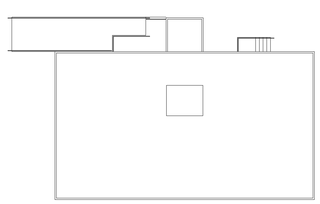


KEY PLAN
SCALE N.T.S.



ANNEX BUILDING KEY PLAN
SCALE N.T.S.

5

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- WS20 NOT USED.
- WS21 INSTALL NEW 6 FT. HIGH VINYL COATED CHAIN LINK FENCE & FOOTINGS. SEE DETAIL 5/A525 AND SPECIFICATIONS.
- WS22 REMOVE EXISTING SEALANT AND BACKER ROD PERIMETER JOINT. CLEAN RESIDUE FROM EXISTING ADJACENT SURFACES. PROVIDE SEALANT AND CLOSED-CELL BACKER ROD.
- WS23 REPOINT EXISTING MASONRY JOINTS APPROXIMATELY 100 S.F. SEE DETAIL 6/A525. (REPLACE CRACKED OR LOOSE BRICK AS REQUIRED.)
- WS24 NOT USED.
- WS25 NOT USED.
- WS26 NOT USED.
- WS27 PREPARE EXISTING FOUNDATION WALL SURFACES FOR PAINTING. REMOVE EXISTING PAINT, FILL ALL HOLES, CRACKS, DEPRESSIONS, ETC. SCRAPE, WIRE BRUSH EXISTING RUSTING REBAR. APPLY EPOXY RUST ENCAPSULATING PAINT. GRIND DOWN ANY HIGH SPOTS OR PROTRUSIONS. FEATHER PATCHING MATERIAL TO PROVIDE SMOOTH TRANSITION TO ADJOINING SURFACES. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- WS28 PROVIDE 2" INSULATED METAL PANELS (IP-2) AT ABANDONED DUCT OPENINGS. PROVIDE BACKER ROD AND PERIMETER SEALANT. (PANELS TO BE INSTALLED BY ABATEMENT SUBCONTRACTOR)
- WS29 SCRAPE, WIRE BRUSH, PRIME & PAINT EXISTING STEEL HANDRAILS & GUARDRAILS.
- WS30 PROVIDE ½" COMPRESSIBLE FILLER AND POURABLE SEALANT BETWEEN PAVEMENT AND BUILDING ELEMENTS. SEE DETAIL 8/A525.
- WS31 PROVIDE METAL PARTITION / INFILL: (1) LAYER EACH SIDE 5/8" TYPE 'X' GYPSUM BOARD OVER 3⅝" METAL STUDS @ 16" O.C. PROVIDE SMOOTH TRANSITION BETWEEN NEW & EXISTING PRIME & PAINT ENTIRE WALL.

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ENGINEER:
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No. 090145
LICENSED PROFESSIONAL ENGINEER

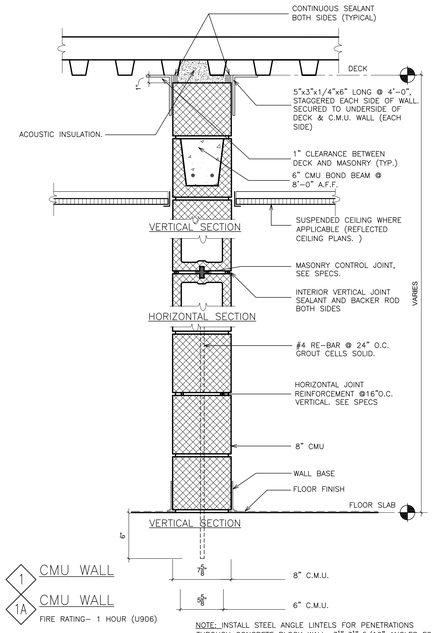
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JJE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

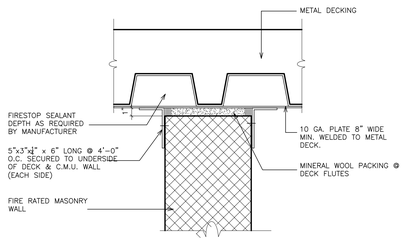
SHEET TITLE
MAIN BUILDING EXTERIOR ELEVATIONS

SHEET NO.
A301

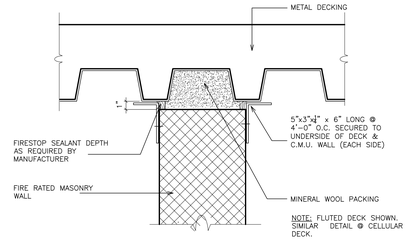
FILE PATH -I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\I-FAD\20378.03 Phase 3 HVAC\20378.00-A300-301.dwg



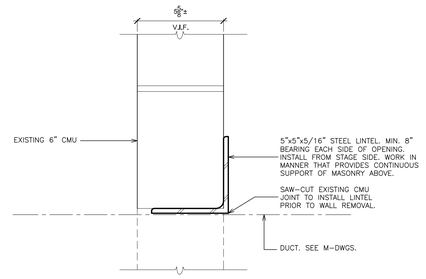
NOTE: INSTALL STEEL ANGLE LINTELS FOR PENETRATIONS THROUGH CONCRETE BLOCK WALL. 3½"x3½"x5/16" ANGLES FOR EVERY 4" OF MASONRY TO SUPPORT, FIRESTOP AND SEAL @ PERIMETER OF PENETRATION. (NOTE: MAX. OPENING WITHOUT LINTEL=12" WIDTH, 12" HEIGHT.)



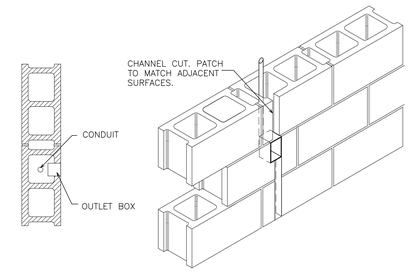
1 FIRE RATED JOINT DETAIL @ METAL/ MASONRY WALL
NOT TO SCALE



2 FIRE RATED JOINT DETAIL @ METAL/ MASONRY WALL
NOT TO SCALE



3 DETAIL- DUCT PENETRATION
SCALE: 3"= 1'-0"



NOTE: STAGGER OUTLET BOXES ON EA. SIDE OF WALL

4 UTILITY BOXES
SCALE: N.T.S.

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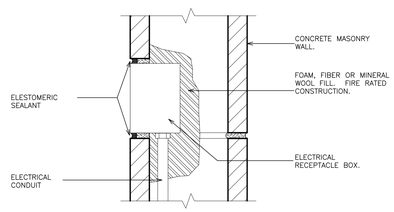
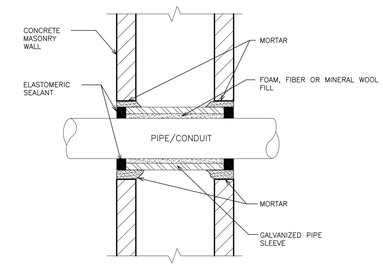
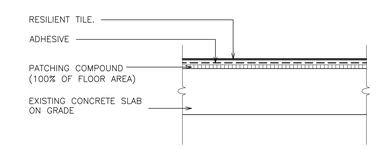


5 DETAIL- UTILITY BOX PENETRATION
SCALE: N.T.S.

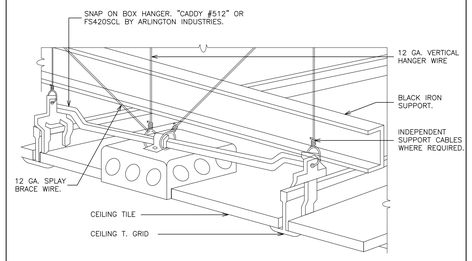


NOTE: AT FIRE RATED CONSTRUCTION, SEALANT & FILL MATERIAL SHALL HAVE A FIRE RATING EQUAL TO OR GREATER THAN CONSTRUCTION BEING PENETRATED

6 DETAIL- WALL PENETRATION
SCALE: N.T.S



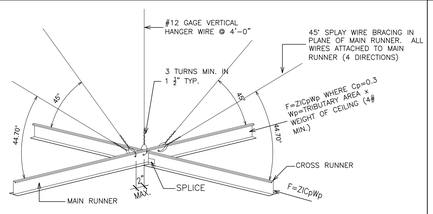
7 REVISED FLOOR ASSEMBLY
SCALE: 1 1/2" = 1'-0"



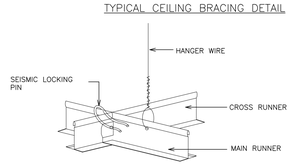
NOTES:

1. FOR USE WITH NEW CEILING MOUNTED DEVICES (SMOKE DETECTORS, RECEPTACLES, SPEAKERS, FANS ETC.).
2. INDEPENDENT SUPPORT FROM BUILDING STRUCTURE REQUIRED FOR ITEMS EXCEEDING 20 LBS. AND FANS.

8 DETAIL - CEILING MOUNTED DEVICE
NOT TO SCALE

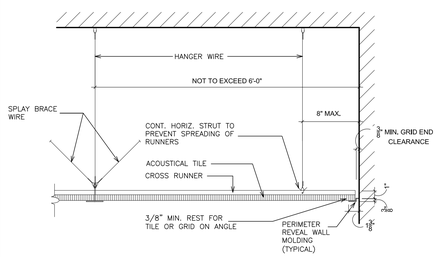


TYPICAL CEILING BRACING DETAIL

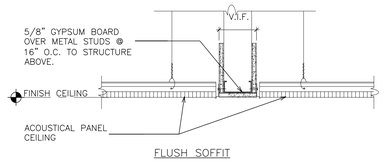


SPLICES AND INTERSECTIONS OF RUNNERS SHALL BE ATTACHED WITH MECHANICAL INTERLOCKING CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, PLATES WITH BENT TABS, OR OTHER APPROVED CONNECTORS. DESIGN CONNECTORS FOR 2x DESIGN LOAD OR ULTIMATE AXIAL TENSION OR COMPRESSION (MINIMUM 60 POUNDS)

LOCKING PIN DETAIL

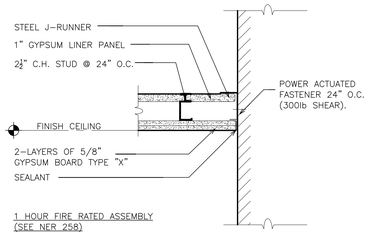


9 SEISMIC DETAIL @ ALL NEW SUSP. CEILINGS
SCALE: N.T.S.



FLUSH SOFFIT

9 DETAIL - GRID TRANSITION SOFFIT
SCALE: 1 1/2" = 1'-0"



10 DETAIL - 1 HOUR RATED CEILING
SCALE: 1 1/2" = 1'-0"

ENGINEER:
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Ph.315-735-1916 Fax.315-735-6365
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ENGINEER STAMP:

STATE OF NEW YORK · JACK EISENBACH · No. 095145 · LICENSED PROFESSIONAL ENGINEER

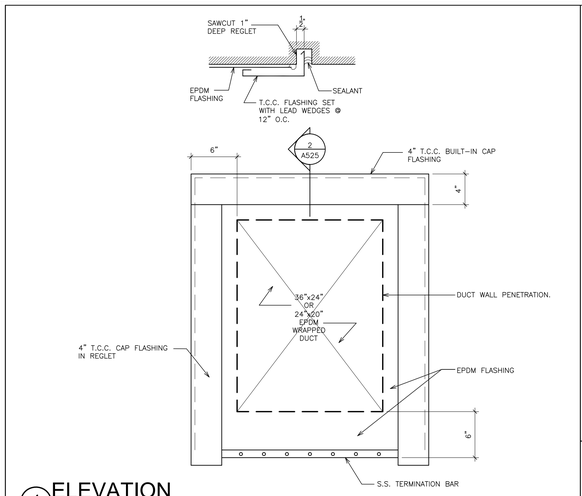
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF REPLACEMENT & INTERIOR UPGRADES
WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JJE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

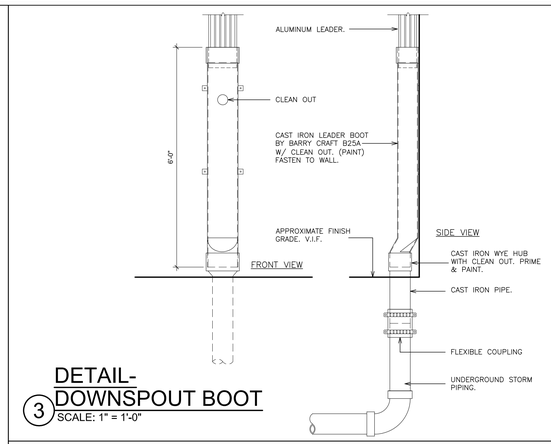
SHEET TITLE
PARTITION TYPE & MISCELLANEOUS DETAILS

SHEET NO.
A500

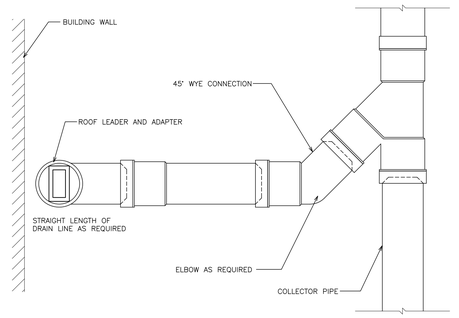
FILE PATH - I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\1-F&D\20378.03 Phase 3 HVAC\20378.00-A500.dwg



1 ELEVATION
SCALE: 1 1/2"= 1'-0"

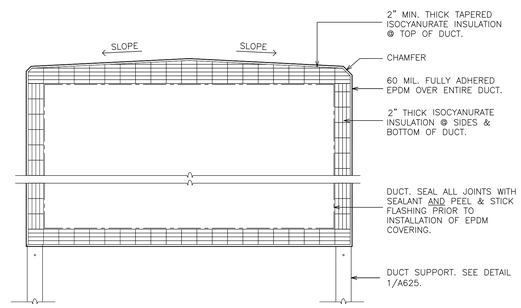


3 DETAIL- DOWNSPOUT BOOT
SCALE: 1" = 1'-0"



PLAN VIEW

4 EXTERIOR ROOF LEADER DRAIN LINE
SCALE: N.T.S.



9 DETAIL- DUCT INSULATION
SCALE: 1 1/2" = 1'-0"

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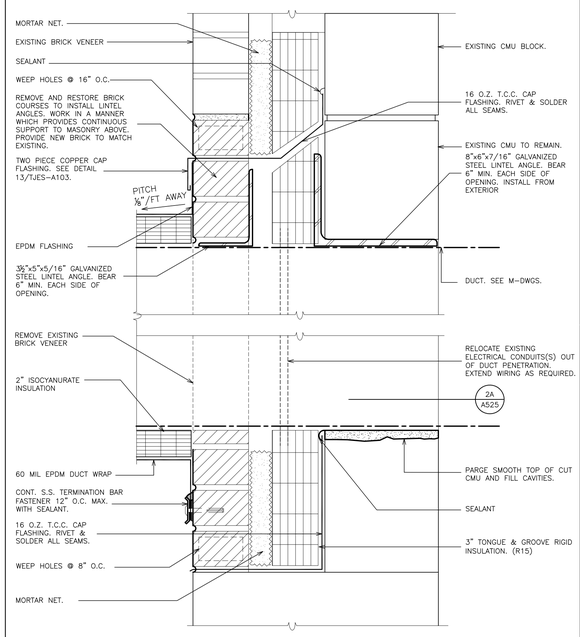
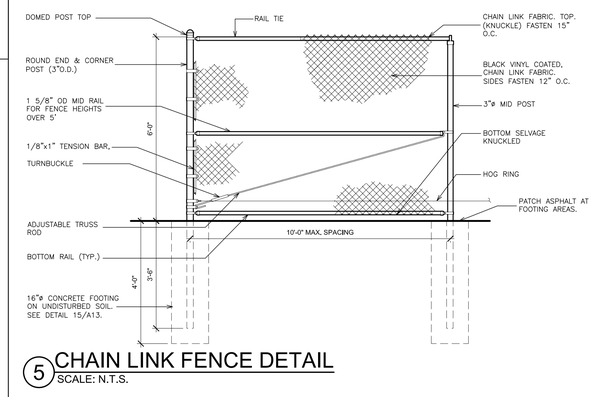


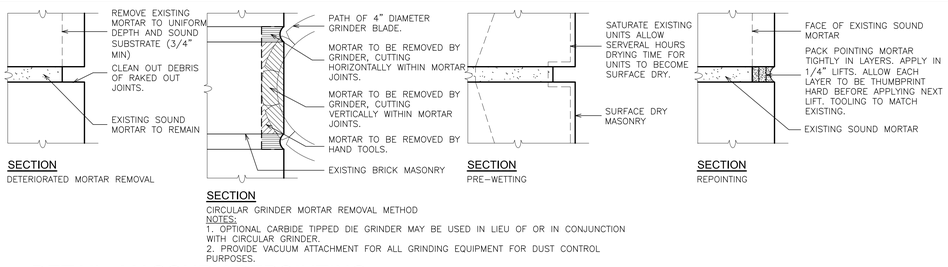
2 DETAIL- DUCT PENETRATION
SCALE: 3"= 1'-0"



5 CHAIN LINK FENCE DETAIL
SCALE: N.T.S.

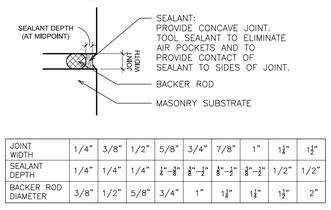
END & CORNER POST TOP	TOP & BOTTOM FABRIC OPTIONS
DOME	KNUCKLE

FENCE NOTES:
1. INCLUDE THE FOLLOWING:
   A. BLACK VINYL COATED, GALVANIZED POSTS, RAILS, TRUSS RODS, CAPS AND TIES.
   B. BLACK VINYL COATED, GALVANIZED, 1½"x6 GAUGE FENCE FABRIC.
2. GATES SHALL BE MANUAL.
3. FABRIC, POSTS, RAILS, TRUSS RODS, CAPS, TIES & ALL ACCESSORIES TO BE BLACK VINYL COATED.
4. PROVIDE AS INDICATED ON DRAWINGS VINYL SIGHT PROOF SLATS BY PEXCO-TOP LOCK SERIES 7/8" BLACK.



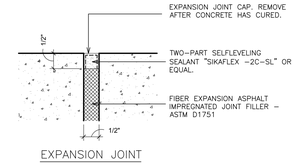
NOTES:
1. OPTIONAL CARBIDE TIPPED DIE GRINDER MAY BE USED IN LIEU OF OR IN CONJUNCTION WITH CIRCULAR GRINDER.
2. PROVIDE VACUUM ATTACHMENT FOR ALL GRINDING EQUIPMENT FOR DUST CONTROL PURPOSES.

6 DETAIL- MASONRY REPOINTING
SCALE: N.T.S.



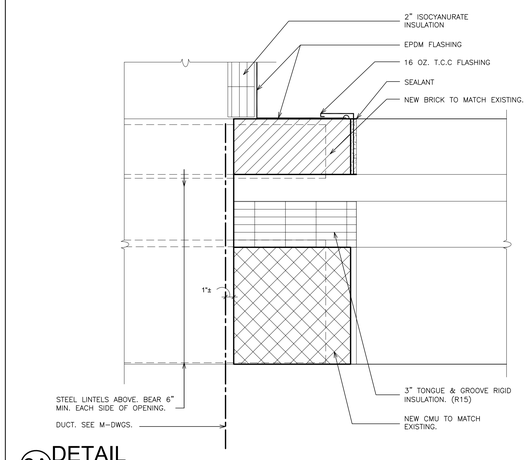
JOINT WIDTH	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1¼"	1½"
SEALANT DEPTH	1/4"	1/4"	1/4"	¼"–⅜"	⅜"–½"	⅜"–½"	⅜"–½"	1/2"	1/2"
BACKER ROD DIAMETER	3/8"	1/2"	5/8"	3/4"	1"	1¼"	1¼"	1½"	2"

7 SEALANT JOINTS
SCALE: N.T.S.

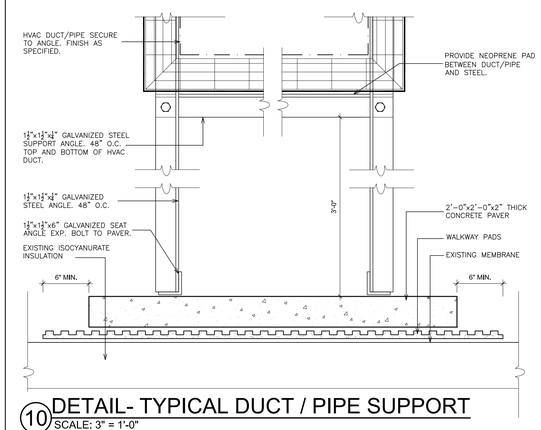


EXPANSION JOINT

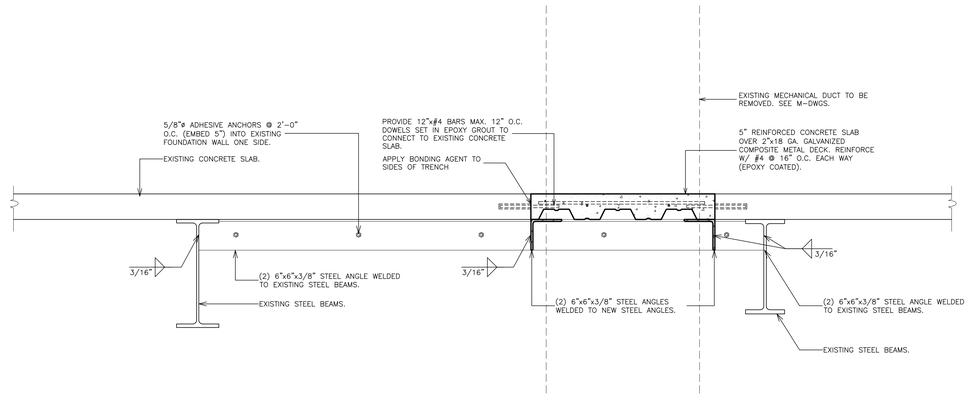
8 CONCRETE EXPANSION JOINT
SCALE: N.T.S.



2A DETAIL
SCALE: 3" = 1'-0"



10 DETAIL- TYPICAL DUCT / PIPE SUPPORT
SCALE: 3" = 1'-0"



11 FLOOR INFILL DETAIL
SCALE: 1" = 1'-0"

ENGINEER:
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ENGINEER STAMP:

STATE OF NEW YORK
JACK EISENBACH
No 099445
LICENSED PROFESSIONAL ENGINEER

YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-402 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JJE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
MISCELLANEOUS DETAILS

SHEET NO.
A525

FILE PATH - I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\1-F&D\20378.03 Phase 3 HVAC\20378.00-A525.dwg

DOOR SCHEDULE

BUILDING	LEVEL	LINE	DOOR NUMBER	DRAWING NUMBER	( ) ROOM / RM No.	EXISTING ENTRANCE NUMBER	DOOR: DOUBLE LEAF DOOR	DOOR: SIZE WIDTH x HEIGHT	DOOR: NEW DOOR	DOOR: EXISTING DOOR	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	FRAME DETAIL: HEAD DETAIL	FRAME DETAIL: JAMB DETAIL	FRAME DETAIL: SADDLE DETAIL	FIRE RATING (MIN.): 90 MINUTES	FIRE RATING (MIN.): 45 MINUTES	FIRE RATING (MIN.): 0 MINUTES	HARDWARE: FIRE CODE: PANIC RELEASE LATCH	FIRE CODE: POSITIVE LATCHING	FIRE CODE: AUTOMATIC CLOSER (DELAYED ACTION)	FIRE CODE: E.-M. HOLD - OPEN	GLAZING: FIRE RATED	GLAZING: INSULATED	GLAZING: LAMINATED	GLAZING: SAFETY FILM	DISABLE REQUIREMENTS: LEVER, U-HANDLE	DISABLE REQUIREMENTS: KICK PLATE	DISABLE REQUIREMENTS: TACTILE WARNING	DISABLE REQUIREMENTS: ADA CONFIRMING ACCESSIBLE THRESHOLD	HARDWARE TYPE: MORTISE LOCK SET	HARDWARE TYPE: CYLINDRICAL LOCK SET	HARDWARE TYPE: CYLINDER	HARDWARE TYPE: CORE(S)	FUNCTION: CLASSROOM W/ INTRUDER FUNC.	FUNCTION: CLASSROOM	FUNCTION: OFFICE	FUNCTION: STORE ROOM	FUNCTION: EXIT	FUNCTION: TOILET	FUNCTION: ELECTRONIC TOILET LOCK	MISCELLANEOUS: 180° SWING	MISCELLANEOUS: REMOVABLE MULLION	MISCELLANEOUS: CONTINUOUS HINGE	MISCELLANEOUS: CYLINDER DOGGING	MISCELLANEOUS: RECESS PULL	SECURITY: DOOR CONTACTS	SECURITY: ACCESS CONTROL	HARDWARE SET NO.	REMARKS
MARTIN LUTHER KING, JR. ACADEMY	GROUND FLOOR	01	G01	A100	STORAGE / G01			3'-0" x 7'-2"	●		D-2	HM	F-2	HM	10	9	–		●		●	●	●	●	●				●	●					●							●							01	
		02	G02	A100	ELECTRIC ROOM / M1			3'-0" x 7'-2"		●	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.		●														●			●								●	●	06	
		03																																													
		04																																													
		05																																													
		06																																													
		07																																													
		08																																													
	FIRST FLOOR	09	100	A101	SERVER ROOM / 106A			3'-0" x 7'-2"	●		D-2	HM	F-2	HM	4	3	–		●			●	●							●	●		●	●									●	02	
		10	101	A101	IT CLOSET / 106B			3'-0" x 7'-2"	●		D-2	HM	F-2	HM	2	1	–		●			●	●							●	●		●	●									●	01	
		11																																													
		12																																													
		13																																													
	SECOND FLOOR	14	200		NOT USED																																												
		15	201		NOT USED																																										
		16	202	A102	TOILET			3'-0" x 7'-2"	●		D-2	HM	F-2	HM	4	3	5		●			●	●							●	●		●	●									●	05	OCCUPANCY INDICATOR. PROVIDE GENDER NEURAL DOOR SIGN (MATCH EXISTING).
		17	203	A102	GYMNASIUM / 230		●	6'-0" x 7'-2"	●		D-1	HM	F-1	HM	10	9	–		●			●	●	●	●	●				●	●		●								●		●	03	
		18	204	A102	HALLWAY / C2-2		●	6'-0" x 7'-2"	●		D-1	HM	F-1	HM	8	7	–		●			●	●	●	●	●				●	●		●								●		●	04	DOUBLE ACTING DOORS
		19	205	A102	LOBBY #1 / C2-3		●	6'-0" x 7'-2"	●		D-1	HM	F-1	HM	8	7	–		●			●	●	●	●	●				●	●		●								●		●	04	DOUBLE ACTING DOORS
		20	206	A102	STORAGE 225			3'-0" x 7'-2"	●		D-2	HM	F-2	HM	10	9	–			●		●	●							●	●		●										●	01	

● INDICATES REQUIRED WORK
○ INDICATES EXISTING
W FRAMED WITH WINDOW SYSTEM
FRP FIBERGLASS REINFORCED POLYESTER
AL ALUMINUM
HM HOLLOW METAL
WD WOOD
GT WOOD GRAIN STEEL
SD SEE DRAWINGS
E EXISTING

GENERAL DOOR NOTES:

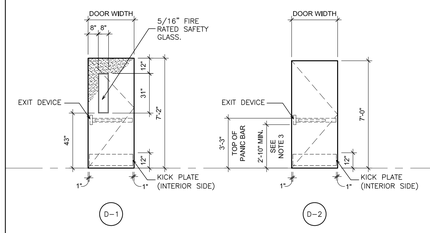
1. DOOR HARDWARE SHALL COMPLY TO ALL APPLICABLE HANDICAPPED CODES. CLOSERS SHALL COMPLY TO STANDARDS REGARDING CLOSING SPEED AND OPENING FORCE.
2. ALL DOOR AND FRAME SIZES SHALL BE FIELD VERIFIED.
3. THERE SHALL BE NO PROJECTIONS BETWEEN 34" AND 80" ABOVE THE FLOOR OR GROUND. PROJECTIONS BETWEEN 34" AND 80" ABOVE THE FLOOR OR GROUND SHALL NOT EXCEED 4".
4. REFER TO SPECIFICATIONS FOR DOOR HARDWARE SETS.
5. THE BOTTOM OF ALL DOOR VISION LITES SHALL BE A MAXIMUM OF 43" ABOVE THE FINISHED FLOOR.
6. THE DOOR SURFACE WITHIN 10" OF THE FLOOR MEASURED VERTICALLY SHALL BE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING FULL WIDTH OF DOOR.
7. ALL EXTERIOR DOORS AND AREAS ADJACENT TO DOORS TO HAVE 1" INSULATING SAFETY LAMINATED GLASS. (UNLESS NOTED OTHERWISE)
8. COORDINATE ALL REMOVALS WITH ABATEMENT DOCUMENTS.
9. CONTRACTOR TO FILL/PATCH ANY OLD HARDWARE PREPARATIONS IN EXISTING FRAMES THAT WILL NO LONGER BE USED WITH NEW HARDWARE. WELDED FILLER PLATES, HOLE PLATES, ETC. BY DON-JO MFG. OR EQUAL. CONTRACTOR IS RESPONSIBLE FOR ANY NEW MORTISES/HARDWARE PREPARATION TO EXISTING FRAME TO ACCOMMODATE NEW DOOR AND HARDWARE.
9. FIRE RATED DOORS SHALL COMPLY WITH NFPA 80, PROVIDE UL LABELS.
10. REFER TO SPECIFICATIONS FOR GLAZING TYPE FOR VISION PANELS.
11. ALL GLAZING IN FIRE RATED DOOR SHALL BE LABELED GLASS. REFER TO SPECIFICATIONS.
12. PROVIDE SILICONE SEALANT AROUND ALL NEW DOOR LIGHTS.
13. NEW H.M. DOOR FRAMES TO BE PAINTED (BOTH SIDES).
14. NEW H.M. DOOR FRAMES TO RECEIVE RESILIENT RUBBER SILENCERS. PROVIDE NEW SILENCERS ON EXISTING H.M. DOOR FRAMES RECEIVING NEW DOORS. DRILL-IN IF REQUIRED.

DOOR SCHEDULE REMARKS:

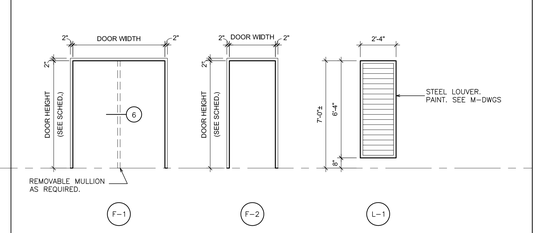
1. PROVIDE 3/4" DOOR UNDERCUT.
2. PROVIDE WALL MOUNTED H.O. DEVICE, WIRING, WIREMOLD AND RELATED ITEMS. TIE INTO EXISTING F.A. SYSTEM.
3. DOOR MANUFACTURERS ADA COMPLIANT RECESSED DOOR PULL.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER TO ALTER ANY ITEM ON THIS DRAWING IN ANY WAY. IF ANY ITEM IS ALTERED, AFFIXED ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND SEAL. COPYRIGHT © 2019

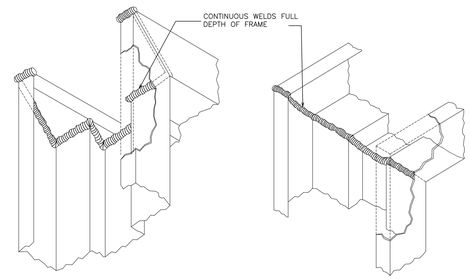
DOOR TYPES SCALE: 1/4"=1'-0"

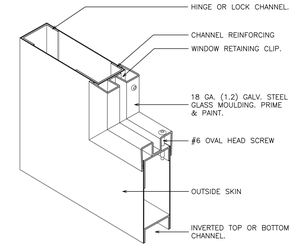


FRAME TYPES SCALE: 1/4"=1'-0"

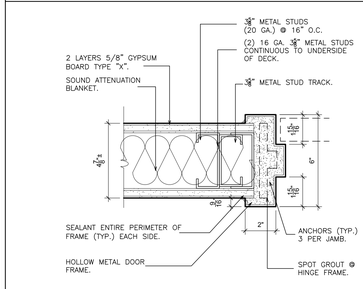


DETAIL - HOLLOW METAL DOOR FRAME SCALE: N.T.S.

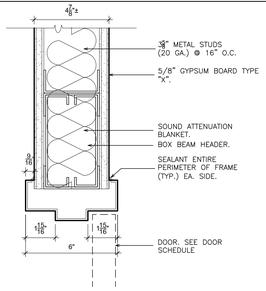




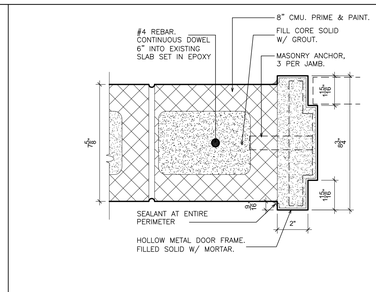
A DOOR VISION PANEL
SCALE: N.T.S.



1 DOOR JAMB
SCALE: 3" = 1'-0"



2 DOOR HEAD
SCALE: 3" = 1'-0"



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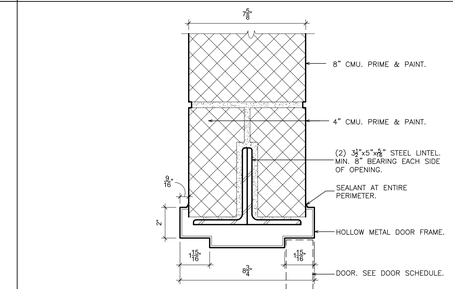
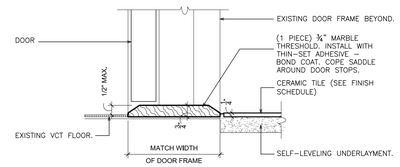
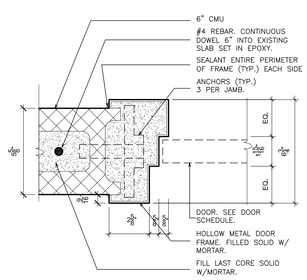


4 DOOR HEAD
SCALE: 3" = 1'-0"



5 MARBLE SADDLE
SCALE: 3" = 1'-0"

6 NOT USED
SCALE: 3" = 1'-0"



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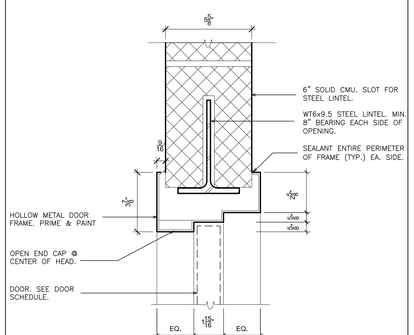
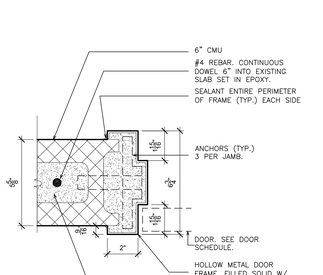
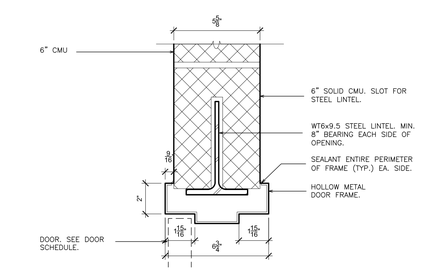
SCALE: 3" = 1'-0"



8 DOOR HEAD
SCALE: 3" = 1'-0"



9 DOOR JAMB
SCALE: 3" = 1'-0"



10 DOOR HEAD
SCALE: 3" = 1'-0"

ENGINEER:
Eisenbach & Ruhnke Engineering, P.C.
291 Genesee Street - Utica, NY 13501
Ph.315-735-1916 Fax.315-735-6365
www.erengpc.com

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WWW.FULLERDANGELO.COM
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707 OBERLANT BOULEVARD
WHITESBORO, NEW YORK 13492
(315) 736-3611

ENGINEER STAMP:

STATE OF NEW YORK · JACK EISENBACH · LICENSED PROFESSIONAL ENGINEER · No. 099445

YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
DOOR SCHEDULE, DOOR TYPES, FRAME TYPES AND DOOR DETAILS

SHEET NO.
A700

FILE PATH - I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\I-F&D\20378.03 Phase 3 HVAC\20378.00-A700.dwg

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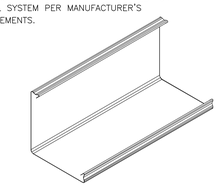
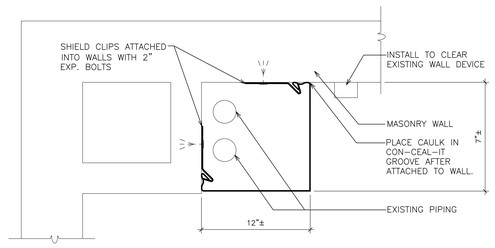
NOTES:
1. PROVIDE PIPE COVER SYSTEM AS MFG. BY. "GRICE ENGINEERING" OR APPROVED EQUAL. INSTALL FULL HEIGHT FLOOR TO STRUCTURE ABOVE.
2. COVER SHALL BE COLD ROLLED – 16 GAUGE GALVANIZED AND TREATED TO ACCEPT PAINTING. FIELD PAINT TO MATCH EXISTING ADJACENT WALLS.
3. THE SYSTEM SHALL INCLUDE ALL NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION.
4. INSTALL SYSTEM PER MANUFACTURER'S REQUIREMENTS.

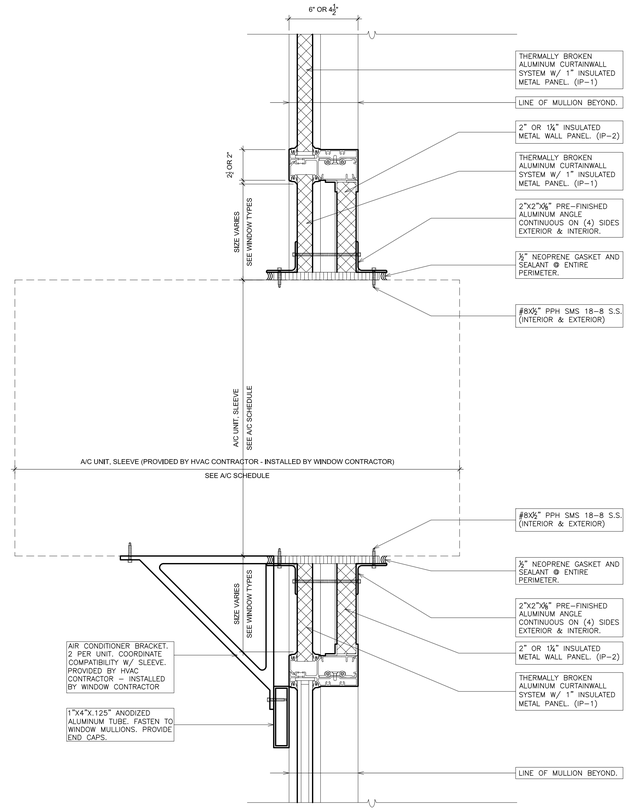


ISOMETRIC VIEW



PLAN

Ⓓ DETAIL - A/C CONDENSING LINE STEEL COVER
SCALE: N.T.S.



Ⓒ DETAIL- AIR CONDITIONER UNIT
SCALE: 3" = 1'-0"

ENGINEER:
Eisenbach & Ruhnke Engineering, P.C.
291 Genesee Street – Utica, NY 13501
Ph.315-735-1916 Fax.315-735-5365.
www.erengpc.com

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(315) 736-3011

ENGINEER STAMP:

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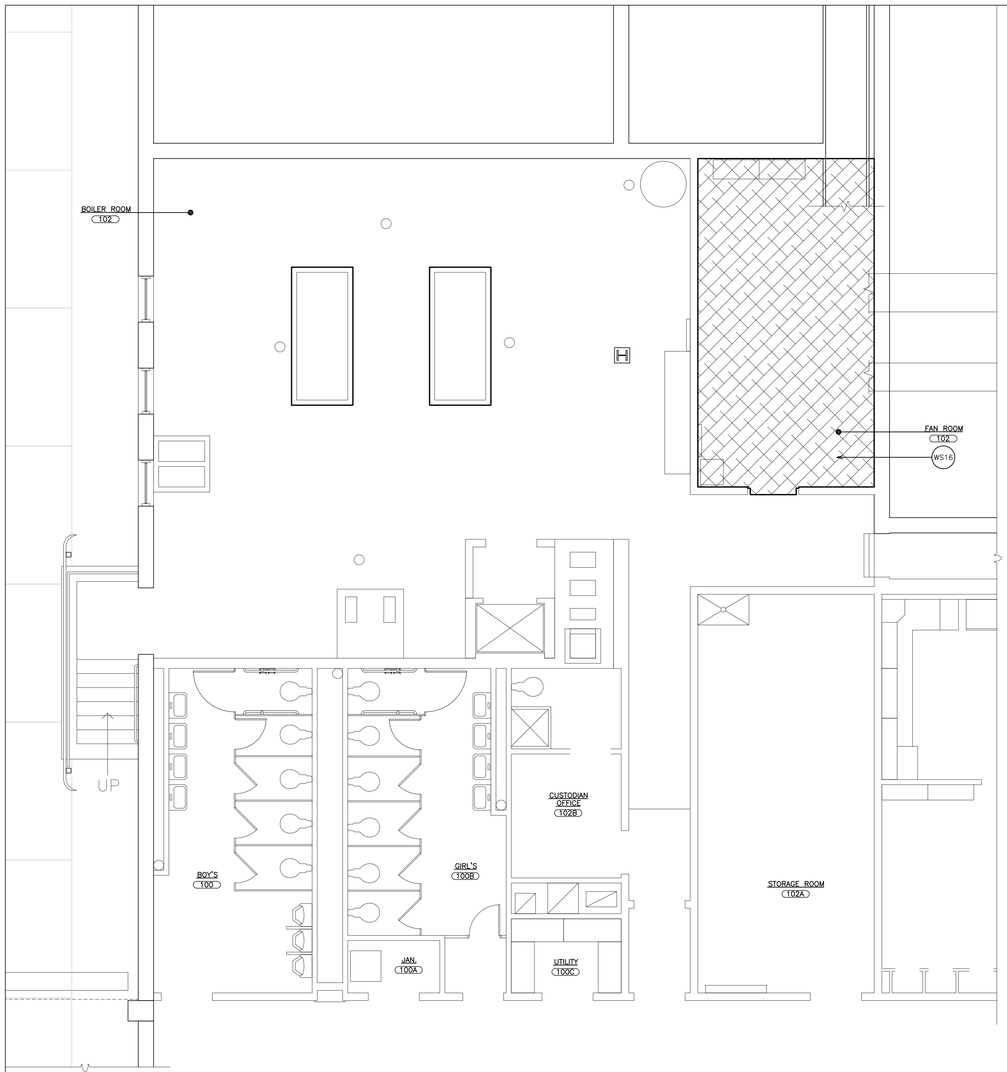
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-222-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
A/C UNIT DETAILS

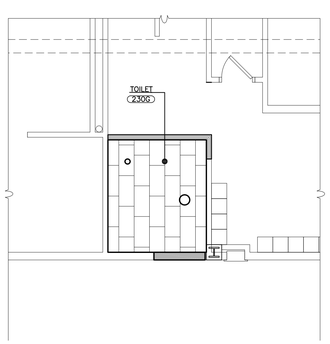
SHEET NO.
A725

FILE PATH – I:\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\1-F&P\20378.03 Phase 3 HVAC\20378.00-A725.dwg



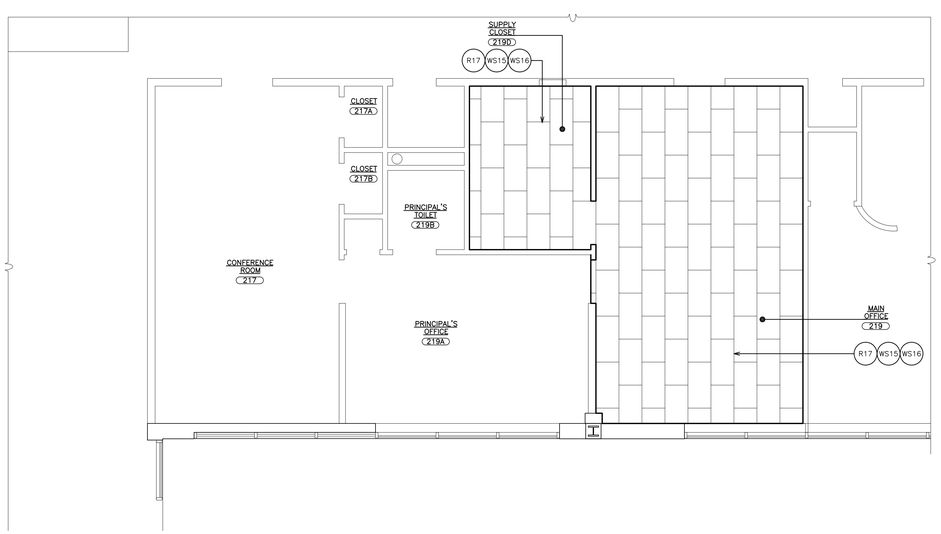
1 PARTIAL FIRST FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 16'



2 PARTIAL SECOND FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 16'



3 PARTIAL SECOND FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 8' 16'

WORKSCOPE NOTES:

- WS1 PROVIDE NEW LOW-E INSULATED GLASS IN EXISTING CURTAIN WALL FRAMING.
- WS2 INFILL EXISTING DUCT OPENING. SEE DETAIL 11/A525.
- WS3 REMOVE EXISTING HARDWARE MOUNTED ON EXISTING DOORS AND FRAME FOR INSTALLATION OF NEW ACCESS CONTROL HARDWARE. PROVIDE AND INSTALL NEW CARD READERS, DOOR CONTACTS, ELECTRIC STRIKE & ACCESS CONTROL SYSTEM. RUN ALL NEW WIRING WITH-IN EXISTING HOLLOW METAL DOOR FRAMES. SEE HARDWARE SCHEDULE AND SECURITY DRAWINGS FOR HARDWARE AND ADDITIONAL INFORMATION.
- WS4 NOT USED.
- WS5 NOT USED.
- WS6 NEW WALL A/C UNIT PROVIDED AND INSTALLED BY HVAC CONTRACTOR. A/C SLEEVE PROVIDED BY HVAC CONTRACTOR AND INSTALLED BY G.C. COORDINATE OPENING IN METAL PANELS WITH HVAC CONTRACTOR. SEE DETAIL C/A725
- WS7 SCRAPE, WIRE BRUSH, PRIME AND PAINT EXISTING STEEL LINTEL. COLOR TO MATCH BRICK.
- WS8 PROVIDE NEW ACOUSTICAL CEILING PANELS IN EXISTING GRID CUT AS REQUIRED. PROVIDE WALL ANGLES AND RUNNERS SUPPORTS AS REQUIRED.
- WS9 NOT USED.
- WS10 NOT USED.
- WS11 NOT USED.
- WS12 PROVIDE SUSPENDED ACOUSTICAL CEILING SYSTEM & ALL RELATED ITEMS. ELECTRICAL CONTRACTOR TO REINSTALL EXISTING LIGHT FIXTURES & CEILING MOUNTED DEVICES. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE DETAILS A500.
- WS13 PROVIDE SUSPENDED ACOUSTICAL CEILING SYSTEM & ALL RELATED ITEMS. ELECTRICAL CONTRACTOR TO PROVIDE NEW LIGHT FIXTURES & CEILING MOUNTED DEVICES. COORDINATE INSTALLATION. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. SEE DETAILS A500.
- WS14 PREPARE EXISTING WALL SURFACES FOR PAINTING. FILL ALL HOLES, CRACKS, DEPRESSIONS, ETC. AND GRIND DOWN ANY HIGH SPOTS OR PROTRUSIONS. FEATHER PATCHING MATERIAL TO PROVIDE SMOOTH TRANSITION TO ADJOINING SURFACES.
- WS15 PROVIDE CEMENT-BASED SELF-LEVELING UNDERLAYMENT TO ACHIEVE FLUSH CONDITION WITH ADJACENT FLOOR(S) ON 100% FLOOR SURFACE.
- WS16 PROVIDE FLOOR FINISH. SEE FINISH SCHEDULE AND FINISH PLANS.
- WS17 PROVIDE CMU PARTITION / INFILL. TOOTHED INTO EXISTING CMU WALL. MATCH EXISTING CMU THICKNESS.
- WS18 ELECTRICAL CONTRACTOR PROVIDE AND INSTALL MAGNETIC HOLD OPEN DEVICE. COORDINATE DOOR INSTALLATION AND SWING WITH DEVISE LOCATION.
- WS19 INSTALL NEW DOOR, FRAME AND HARDWARE. SEE DOOR DETAILS & SCHEDULE.
- WS20 NOT USED.
- WS21 INSTALL NEW 6 FT. HIGH VINYL COATED CHAIN LINK FENCE & FOOTINGS. SEE DETAIL 5/A525 AND SPECIFICATIONS.
- WS22 REMOVE EXISTING SEALANT AND BACKER ROD PERIMETER JOINT. CLEAN RESIDUE FROM EXISTING ADJACENT SURFACES. PROVIDE SEALANT AND CLOSED-CELL BACKER ROD.
- WS23 REPOINT EXISTING MASONRY JOINTS APPROXIMATELY 100 S.F. SEE DETAIL 6/A525. (REPLACE CRACKED OR LOOSE BRICK AS REQUIRED.)
- WS24 NOT USED.
- WS25 NOT USED.
- WS26 NOT USED.
- WS27 PREPARE EXISTING FOUNDATION WALL SURFACES FOR PAINTING. REMOVE EXISTING PAINT, FILL ALL HOLES, CRACKS, DEPRESSIONS, ETC. SCRAPE, WIRE BRUSH EXISTING RUSTING REBAR. APPLY EPOXY RUST ENCAPSULATING PAINT. GRIND DOWN ANY HIGH SPOTS OR PROTRUSIONS. FEATHER PATCHING MATERIAL TO PROVIDE SMOOTH TRANSITION TO ADJOINING SURFACES. SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
- WS28 PROVIDE 2" INSULATED METAL PANELS (IP-2) AT ABANDONED DUCT OPENINGS. PROVIDE BACKER ROD AND PERIMETER SEALANT. (PANELS TO BE INSTALLED BY ABATEMENT SUBCONTRACTOR)
- WS29 SCRAPE, WIRE BRUSH, PRIME & PAINT EXISTING STEEL HANDRAILS & GUARDRAILS.
- WS30 PROVIDE ¾" COMPRESSIBLE FILLER AND POURABLE SEALANT BETWEEN PAVEMENT AND BUILDING ELEMENTS. SEE DETAIL 8/A525.
- WS31 PROVIDE METAL PARTITION / INFILL. (1) LAYER EACH SIDE 5/8" TYPE 'X' GYPSUM BOARD OVER 3⅝" METAL STUDS @ 16" O.C. PROVIDE SMOOTH TRANSITION BETWEEN NEW & EXISTING PRIME & PAINT ENTIRE WALL.

FINISH SCHEDULE LEGEND

NOTE: ALL FINISHES SHALL BE CLASS "A"

LEGEND	SIZE	MANUFACTURER	SERIES/MODEL NO./ COLOR	DESCRIPTION	LOCATION / REMARKS
P-1	–	SHERWIN WILLIAMS	COLOR TO BE SELECTED BY ARCHITECT	EGGSHELL PAINT	CORRIDOR WALLS
P-2	–	SHERWIN WILLIAMS	SW 7757 / HIGH REFLECTIVE WHITE	FLAT PAINT	SOFFITS & CEILINGS
P-3	–	SHERWIN WILLIAMS	COLOR TO BE SELECTED BY ARCHITECT	SEMI-GLOSS DOOR FRAMES	DOOR FRAMES
P-4	–	SHERWIN WILLIAMS	COLOR TO BE SELECTED BY ARCHITECT	SEMI-GLOSS DOOR	DOORS
P-5	–	SHERWIN WILLIAMS	COLOR TO BE SELECTED BY ARCHITECT	SEMI-GLOSS	FLOOR PAINT
ACT-1	2'x2' x⅝"	ARMSTRONG	563 / CIRRUS HIGH-NRC / LAY-IN	ACOUSTICAL CEILING TILE	CORRIDOR & OFFICE
ACT-2	2'x2'x1"	ARMSTRONG	CALLA HEALTH ZONE / 2230	ACOUSTICAL CEILING TILE	KITCHEN & SERVING
LVT-1	12"x24"	MANNINGTON	AMTICO SIGNATURE COLLECTION / ABSTRACT / LINEAR CHALK	HOMOGENEOUS VINYL TILE	OFFICE
RB-1	4" HIGH	JOHNSONITE	COLOR TO BE SELECTED BY ARCHITECT	RUBBER BASE	OFFICE
COT-1	–	CORIAN	TERRA COLLECTION / PINE	SOLID SURFACE COUNTERTOPS	CLASSROOM
GLT-1	6"x18"	DALTILE	BISCUIT K175	GLAZED CERAMIC WALL TILE	TOILET WALLS – FIELD
GLT-2	6"x6"	DALTILE	BISCUIT K175	GLAZED COVE BASE	TOILET BASE
CT-1	12"x24"	CASALGRANDE PADANA	BASALTINA / PANTELLERIA / NATURAL MATT	PORCELAIN FLOOR TILE	TOILET FLOORS FIELD / JOINTS @ 1/3 POINTS OF TILE

FINISH SCHEDULE

WALL INDICATIONS ON PLAN

LEVEL	LINE	DESIGNATION	FLOOR	BASE (MAT.)	WALL 1	WALL 2	WALL 3	WALL 4	CLG.	TRIM		CASEWORK			REMARKS
										DOORS	DOOR FRAMES	CABINETS	COUNTER TOPS	EDGING	
GROUND FLOOR	01														
	02														
	03														
	04														
	05														
	06														
FIRST FLOOR	07	FAN ROOM 102	P-5	–	P-1	P-1	P-1	P-1	P-2	P-3	P-4	–	–	–	
	08	HALLWAY 130	–	–	–	–	–	–	ACT-1	–	–	–	–	–	
	09														
	10														
	11														
	12														
SECOND FLOOR	13	HALLWAY C2-2	–	–	–	–	–	–	ACT-1	–	–	–	–	–	
	14	LOBBY #1 C2-3	–	–	–	–	–	–	ACT-1	–	–	–	–	–	
	15	TOILET 230G	CT-1	GLT-2	GLT-1	GLT-1	GLT-1	GLT-1	ACT-1	P-3	P-4	–	–	–	
	16	PASSAGE 230H	–	–	–	–	–	–	ACT-1	P-3	P-4	–	–	–	
	17	HALLWAY 200	–	–	–	–	–	–	ACT-1	P-3	P-4	–	–	–	
	18	CONFERENCE ROOM 217	–	–	–	–	–	–	ACT-1	–	–	–	–	–	
	19	MAIN OFFICE 219	LVT-1	RB-1	–	–	–	–	ACT-1	–	–	–	–	–	
	20	PRINCIPAL'S OFFICE 219A	–	–	–	–	–	–	ACT-1	–	–	–	–	–	
	21	STORAGE 219C	–	–	–	–	–	–	ACT-1	–	–	–	–	–	
	22	SUPPLY CLOSET 219D	LVT-1	RB-1	–	–	–	–	ACT-1	–	–	–	–	–	
	23	MED. FOYER 202	–	–	–	–	–	–	ACT-1	–	–	–	–	–	
	24	NURSE 202A	–	–	–	–	–	–	ACT-1	–	–	–	–	–	
	25	EXAM ROOM 202B	–	–	–	–	–	–	ACT-1	–	–	–	–	–	
	26	EXAM ROOM 222	–	–	–	–	–	–	ACT-1	–	–	–	–	–	
	27	KITCHEN 200	–	–	–	–	–	–	ACT-2	–	–	–	–	–	ALTERNATE
	28														
	29														
	30														
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	36														
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	38														
	39														
	40														
	41														
	42														

FLOOR FINISH LEGEND

- ONE PIECE RUBBER STAIR TREAD-RISER AND LANDING TILE FLOORING. SEE FINISH SCHEDULE.
- 12"x12" ENHANCED VINYL FLOOR TILE. SEE FINISH SCHEDULE.
- 18"x36" ENHANCED VINYL FLOOR TILE. SEE FINISH SCHEDULE.
- FLOOR PAINTED. SEE FINISH SCHEDULE.
- MARBLE SADDLE. SEE DOOR DETAIL 5/A700.
- WALL INDICATIONS ON FINISH SCHEDULE

NOTE: 1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

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YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
FIRST FLOOR FINISH PLAN, FINISH LEGEND & FINISH SCHEDULES

SHEET NO.
A825

FILE PATH –\\20378.00 E&R Yonkers MLK Windows & Elevator\DRAWINGS\CURRENT\1-F&O\20378.03 Phase 3 HVAC\20378.00-A800-825.dwg

MECHANICAL GENERAL NOTES:

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT; HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFICALLY SPECIFIED TO MAKE THE SYSTEMS BEING INSTALLED COMPLETE, CODE COMPLIANT, TESTED AND OPERATIONAL.
2. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
3. ALL MATERIALS, EQUIPMENT, METHODS OF INSTALLATION, REMOVALS AND DISPOSAL SHALL BE IN ACCORDANCE WITH THE STANDARDS, REGULATIONS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES THAT HAVE LAWFUL JURISDICTION.
4. PERFORM WORK, PROVIDE MATERIALS AND EQUIPMENT FOR SYSTEMS SHOWN, SPECIFIED AND DESCRIBED ON DRAWINGS. COMPLETELY COORDINATE ALL TRADES OF THIS CONTRACT AND PROVIDE COMPLETE AND FULLY FUNCTIONAL INSTALLATION. ALL WORK IN THIS SET TO BE COMPLETED UNDER THIS CONTRACT, UNLESS OTHERWISE INDICATED.
5. PROTECT ALL EXISTING AND NEW BUILDING ELEMENTS (INSTALLED BY OTHER CONTRACTS) FROM DAMAGE. CONTRACTOR SHALL RESTORE ALL DAMAGED ELEMENTS TO ORIGINAL OR BETTER CONDITION.
6. WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR APPEARANCE WHEN COMPLETED. MAINTAIN MAXIMUM HEAD ROOM AT ALL TIMES. DO NOT RUN PIPES, DUCTS, AND CONDUIT EXPOSED UNLESS SHOWN AND NOTED TO BE EXPOSED ON DRAWINGS.
7. MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN MANUFACTURER'S EQUIPMENT CLEARANCES.
8. CONTRACTOR IS RESPONSIBLE FOR ALL WORK RELATED TO ISOLATING, SHUTTING DOWN, DRAINING, FILLING AND TESTING SYSTEMS TO ALLOW FOR COMPLETION OF WORK. INTERRUPTIONS TO EXISTING SERVICES AND SYSTEMS SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AND DURATION APPROVED BY THE OWNER AND UTILITY AS APPLICABLE. INCLUDE ALL PREMIUM TIME ASSOCIATED WITH INTERRUPTIONS. ALL SYSTEM INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER, UTILITY AND COORDINATED WITH OTHER TRADE WORK.
9. ALL EQUIPMENT PIPING, WIRING, INSULATION ETC. INSTALLED IN HVAC AIR PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
10. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS AND FLOORS WITH UL RATED MATERIALS/METHODS EQUIVALENT TO FIRE RATING OF ASSEMBLY.
11. COORDINATE ALL WALL/FOUNDATION PENETRATIONS WITH GENERAL CONTRACT AND SEAL WEATHERTIGHT. PROVIDE STAINLESS STEEL ESCUTCHEON PLATE/TRIM RING FOR EACH ABOVE GRADE PENETRATION (BOTH SIDES).
12. PROVIDE PROPER ACCESS TO EQUIPMENT THAT REQUIRES INSPECTION, REPLACEMENT OR REPAIR. ACCESS PANELS/DOORS SHALL BE A MINIMUM OF 12"x12", UNLESS OTHERWISE NOTED.
13. DO NOT SUPPORT EQUIPMENT FROM SUSPENDED CEILINGS. ALL SUPPORT SHALL BE FROM BUILDING STRUCTURE OR FROM CEILING SUSPENSION SYSTEM WHICH HAS BEEN REINFORCED. SUPPORTS SHALL BE SELECTED AND INSTALLED TO PROVIDE A VIBRATION FREE INSTALLATION.
14. CLEANING DURING MECHANICAL WORK: THE MECHANICAL ROOM AND ROOMS WHERE WORK WILL BE DONE TO MINIMIZE DISTURBANCE IN THE BUILDINGS. WORKERS ARE TO USE PATHWAYS AND FACILITIES AGREED UPON WITH THE DISTRICT DESIGNEE IN WRITING. THE AREA OUTSIDE THE BUILDING WHERE CUTTING WELDING OR STORAGE IS ALLOWED IS TO BE FENCED AT ALL TIMES. THE CONTRACTOR WILL ON A DAILY BASIS CLEAN THE GROUNDS AND THE BUILDING OF ANY DEBRIS OR GARBAGE GENERATED BY THEIR WORK.
15. AIR CONDITIONER INSTALLATION TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
16. VFDS ARE TO BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

HVAC REMOVAL NOTES:

1. THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWING IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE OR RELOCATE ANY RELATED MECHANICAL DEVICES/ITEMS EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMODATE NEW WORK.
2. EQUIPMENT/ITEMS SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES/ITEMS REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT. THE CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.
3. EQUIPMENT, PIPING, ETC. REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS. NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.
4. ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

MECHANICAL SYMBOLS

- T – THERMOSTAT – ARROW INDICATES DEVICE/ZONE CONTROL
- F – FREEZESTAT
- P – STATIC PRESSURE SENSOR
- T – TEMPERATURE SENSOR W/CONTROL WIRING AND 1/2" CONDUIT WITH CLEAR PLASTIC GUARD(LOCKABLE)
- H – HUMIDITY SENSOR
- F – FLOW SENSOR
- DSD – DUCT SMOKE DETECTOR
- VFD – VARIABLE FREQUENCY DRIVE
- Ø – ROUND DUCTWORK
- 4– WAY CEILING SUPPLY DIFFUSER
- CEILING EXHAUST/RETURN REGISTER
- FLOW ARROW
- CIRCUIT SETTER
- NEW PIPING, DUCTWORK, AND EQUIPMENT
- EXISTING TO REMAIN PIPING, DUCTWORK, AND EQUIPMENT
- PIPING, DUCTWORK, AND EQUIPMENT FOR REMOVAL
- BALL VALVE
- CIRCUIT SETTER
- CHECK VALVE
- CONTROL VALVE – 2 WAY
- DRAIN VALVE WITH HOSE BIB
- UNION
- STRAINER WITH BLOWDOWN
- REDUCER OR INCREASER
- BRANCH FROM BOTTOM OF PIPE
- BRANCH FROM TOP OF PIPE
- PIPE ELBOW DN
- PIPE ELBOW UP
- GAUGE WITH BALL VALVE
- AV – AUTOMATIC AIR VENT
- MV – MANUAL AIR VENT
- PIPE CAP
- PIPE BREAK
- PIPE FLOW ARROW
- 1 – REVISION NOTE
- (1) – KEYED NOTE
- POINT OF NEW CONNECTION
- LIMIT OF REMOVAL
- CD–1 200 CFM – DIFFUSER/GRILLE LABEL
- BDD – BACK DRAFT DAMPER

SINGLE LINE	DOUBLE LINE	
		MANUAL VOLUME DAMPER
AAD	AAD	AUTOMATIC AIR DAMPER INTERLOCKED WITH EQUIPMENT
DSD	DSD	DUCT SMOKE DETECTOR
		FLEXIBLE CONNECTION
		SUPPLY/OUTSIDE AIR RECTANGULAR ELBOW UP
		SUPPLY/OUTSIDE AIR RECTANGULAR ELBOW DN
		RETURN/EXHAUST AIR RECTANGULAR ELBOW UP
		45° DEGREE LEADING EDGE *BRANCH TAKEOFF

SINGLE LINE	DOUBLE LINE	
		RETURN/EXHAUST AIR RECTANGULAR ELBOW DN
		ROUND ELBOW UP
		ROUND ELBOW DN
		CENTERED TRANSITION
		OFFSET TRANSITION
		SQUARE TO ROUND TRANSITION
		RADIUS ELBOW
		MITERED ELBOW WITH TURNING VANES

GENERAL CONTROLS NOTE:

MECHANICAL CONTRACTOR SHALL PROVIDE NEW EQUIPMENT WITH FACTORY–INSTALLED CONTROL OPTIONS TO REDUCE THE NEED FOR AFTERMARKET AND FIELD–INSTALLED CONTROLS. CHANGE ORDERS FOR FIELD INSTALLING CONTROLS AND COMPONENTS THAT ARE OFFERED TO BE PREINSTALLED BY THE FACTORY WILL NOT BE ACCEPTED.

DAMAGE TO WALLS AND/OR CEILINGS DURING YOUR SCHEDULED WORK

1. CONTRACTORS NOT TO DAMAGE EXISTING WALLS THAT ARE TO REMAIN. THIS INCLUDES WALLS WHERE ONLY A PORTION OR SIDE OF THE WALL IS TO REMAIN AND THE OTHER SIDE OF WALLS IS TO BE MODIFIED OR REPLACED. CONTRACTOR IS RESPONSIBLE FOR REPAIR TO DAMAGE WALLS AND TO ANY PORTION OF WALLS THAT ARE EXISTING TO REMAIN, EVEN IF NOT SPECIFICALLY MARKED AS SUCH.
2. CONTRACTOR IS RESPONSIBLE FOR REPAIR TO DAMAGE CEILINGS AND TO ANY PORTION OF CEILINGS THAT ARE EXISTING TO REMAIN, EVEN IF NOT SPECIFICALLY MARKED AS SUCH

CONTRACTORS' COORDINATION NOTE:

ALL CONTRACTORS ARE REQUIRED TO REVIEW THE CONTRACT DRAWINGS FOR ALL TRADES AND DETERMINE NECESSARY COORDINATION BETWEEN TRADES PRIOR TO BIDDING. ANY DISCREPANCIES, COMMENTS, OR QUESTIONS ARE TO BE SUBMITTED TO THE ENGINEER BY RFI.

HVAC ABBREVIATIONS

AAD	AUTOMATIC AIR DAMPER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
AMP	AMPERAGE
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CH	CABINET HEATER
CLG	CEILING
C	CONDENSATE
DB	DRYBULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL (SYSTEM)
DEG	DEGREE
DIA	DIAMETER
DN	DOWN
DP	DEWPOINT TEMPERATURE
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST
F	FAHRENHEIT
FD	FIRE DAMPER
FF	FINAL FILTER
FLR	FLOOR
FPM	FEET PER MINUTE
FSTAT	FREEZESTAT
FT	FEET
FT HD	FEET OF HEAD
FT WG	FEET OF WATER GAUGE
FV	FACE VELOCITY
G	GAS
GAL	GALLON
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
MAT	MIXED AIR TEMPERATURE
MAU	MAKE–UP AIR UNIT
MBH	1,000 BTU/HR
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
PD	PRESSURE DROP
R	REMOVE
RA	RETURN AIR
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
S	SATISFACTORY
SAT	SUPPLY AIR TEMPERATURE
SEN	SENSIBLE HEAT
SG	SPECIFIC GRAVITY
SP	STATIC PRESSURE
TAB	TESTING, ADJUSTING, BALANCE
TSTAT	THERMOSTAT
TYP	TYPICAL
VD	VOLUME DAMPER
WB	WETBULB
WG	WATER GAUGE
HP	HEAT PUMP
ΔT	TEMPERATURE DIFFERENCE

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YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF & INTERIOR UPGRADES
WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School

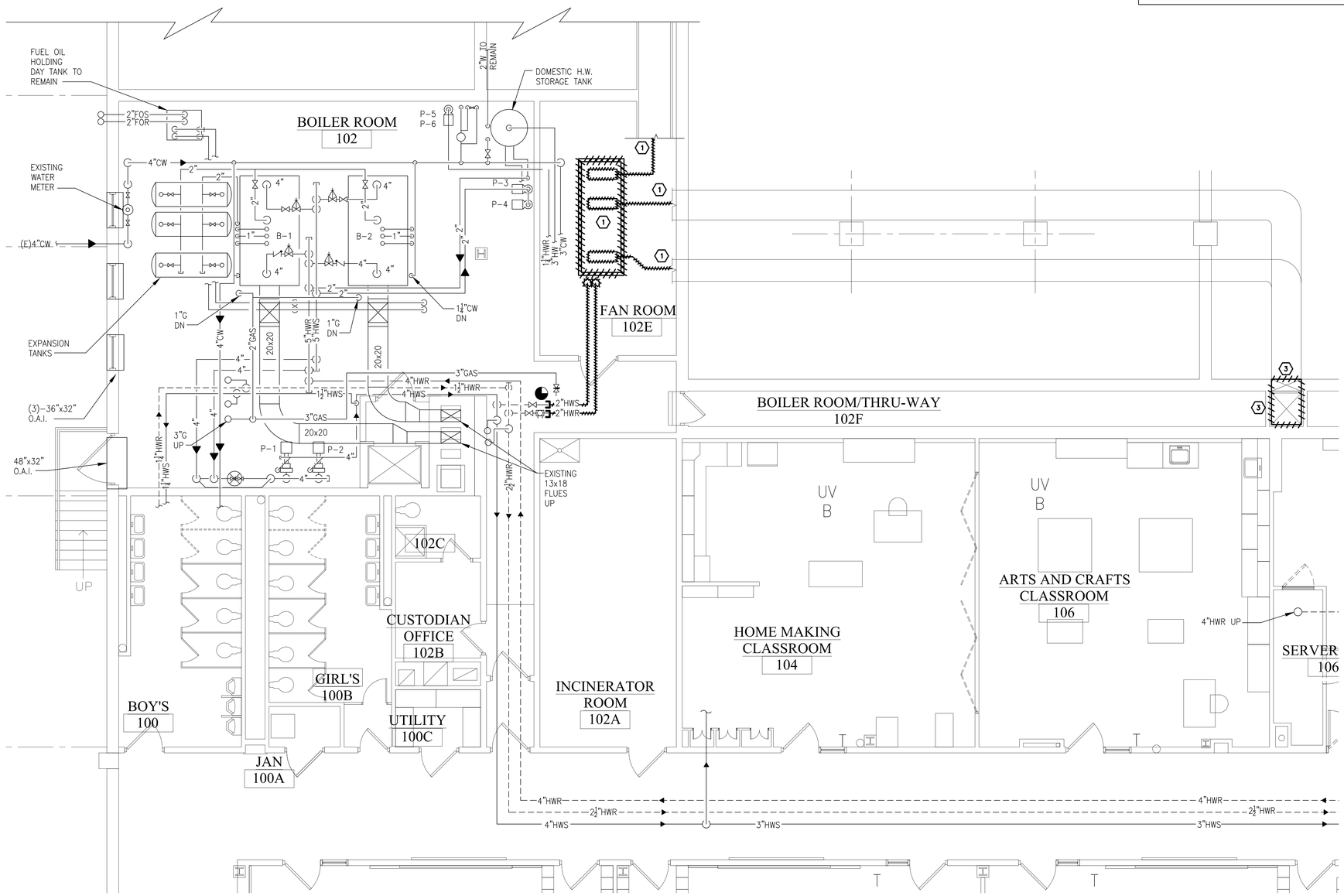
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-602 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JJE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ABBREVIATIONS AND SYMBOLS

SHEET NO.
M-001

FILE PATH - N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 DIR# 10875 YPS MLK\CAD\Part3.interior\Y19mlk01.m001.dwg



1 BOILER ROOM PLAN/PARTIAL FIRST FLOOR PLAN - DEMOLITION
SCALE: 1/4"=1'-0"

0 2' 4' 8' 16' 32'

KEYED NOTES – DEMOLITION

1. REMOVE AIR HANDLING UNIT AND CONCRETE PAD IN THEIR ENTIRETY. CUT AND CAP HWS AND HWR PIPING AS SHOWN. REMOVE ALL EXISTING DUCTWORK AND ASSOCIATED. MC TO LEAVE AN APPROXIMATE 12" SECTION OF SHEET METAL DUCTWORK AT CONCRETE DUCT CONNECTION. ABATEMENT CONTRACTOR TO DISCONNECT FINAL 12" OF DUCTWORK FROM CONCRETE DUCTWORK PENETRATING WALL. MC SHALL NOT DISTURB CONCRETE DUCTWORK.
2. NOT USED
3. REMOVAL OF DUCTWORK BY ABATEMENT CONTRACTOR IN THIS AREA.

GENERAL DEMOLITION NOTES:

1. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
2. PROTECT EXISTING TO REMAIN EQUIPMENT AND SURFACES. CONTRACTOR RESPONSIBLE FOR RESTORATION OF DAMAGED EQUIPMENT OR SURFACES TO THE SATISFACTION OF THE DISTRICT.
3. UNLESS OTHERWISE IDENTIFIED, STAGING AREAS TO BE COORDINATED WITH THE DISTRICT.

KEY-PLAN
SCALE: NONE

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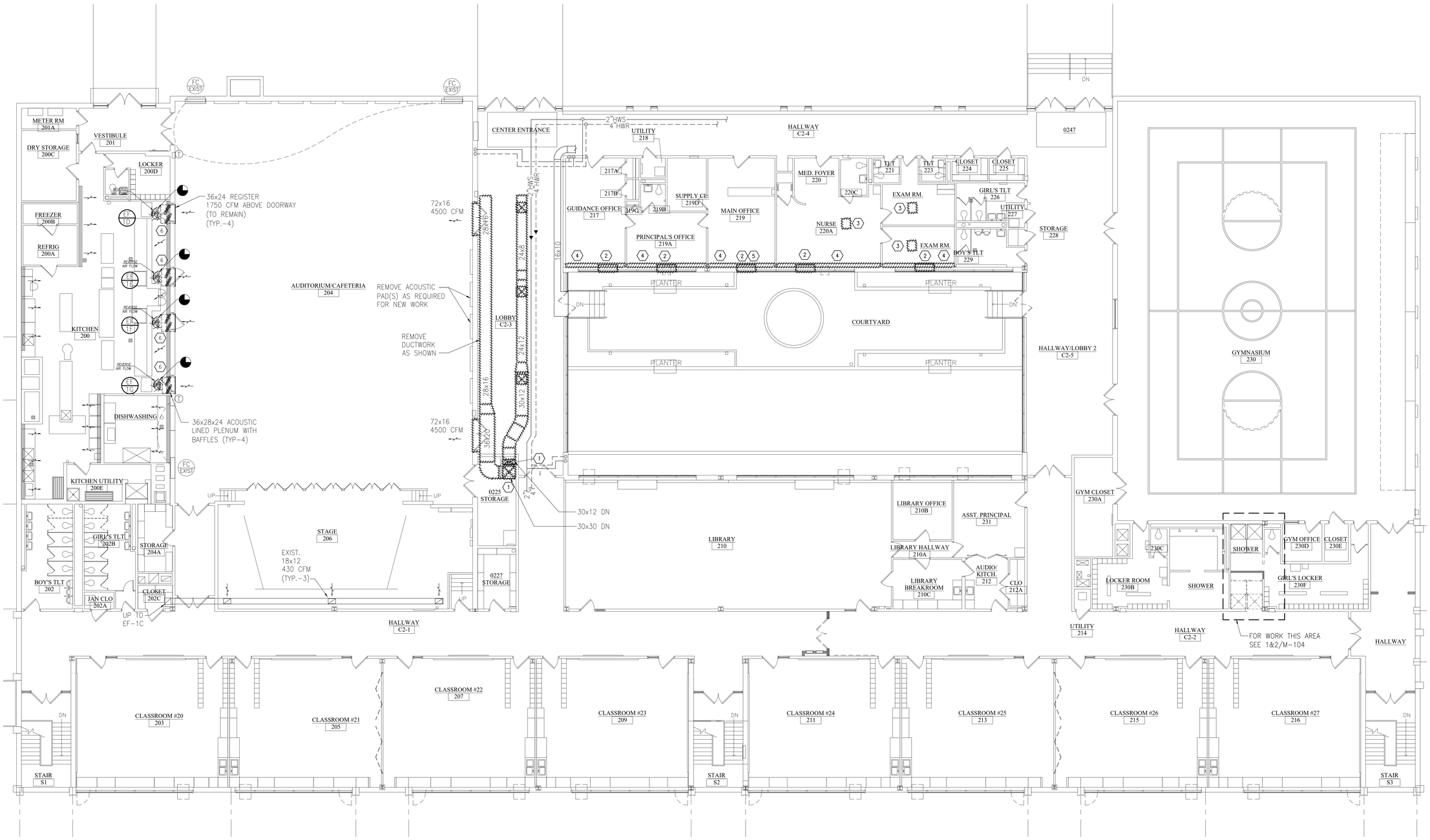
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
GROUND FLOOR AND FIRST FLOOR PLANS - DEMOLITION

SHEET NO.
MD-100

FILE PATH – N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CP# 10875 YPS MLK\CAD\Part3.Interior\y19mlk01.md100.dwg



1 SECOND FLOOR PLAN - DEMOLITION

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

0 2' 4' 8' 16' 32'

KEYED NOTES – DEMOLITION

1. REMOVE EXISTING DUCTWORK AS INDICATED. CAP DUCT AT FLOOR AND CORRIDOR PENETRATIONS. FIRESTOP AND MAKE AIRTIGHT. COORDINATE WITH ABATEMENT CONTRACTOR.
2. REMOVE EXISTING HEATING EQUIPMENT. REMOVE PORTION OF HWS AND HWR LINES TO DISCONNECT EXISTING EQUIPMENT FROM SYSTEM. REMOVE ASSOCIATED VALVES. CUT AND CAP PIPING TO FIT INSIDE FIN TUBE ENCLOSURE. FIN TUBE SHALL REMAIN.
3. CAREFULLY REMOVE MINI-SPLIT SYSTEM AND ASSOCIATED MATERIALS IN THEIR ENTIRETY, RETURN TO OWNER.
4. REMOVE ALL FIN TUBE ENCLOSURES FROM ROOMS INDICATED. COORDINATE WITH ABATEMENT CONTRACTOR.
5. REMOVE EXISTING AIR CONDITIONER AND FABRICATED ENCLOSURE IN THEIR ENTIRETY.
6. REMOVE EXISTING FANS AS SHOWN. PLENUM BOXES TO BE REMOVED BY ABATEMENT CONTRACTOR.

GENERAL DEMOLITION NOTES:

1. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
2. PROTECT EXISTING TO REMAIN EQUIPMENT AND SURFACES. CONTRACTOR RESPONSIBLE FOR RESTORATION OF DAMAGED EQUIPMENT OR SURFACES TO THE SATISFACTION OF THE DISTRICT.
3. UNLESS OTHERWISE IDENTIFIED, STAGING AREAS TO BE COORDINATED WITH THE DISTRICT.

KEY-PLAN

SCALE: NONE

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER ANY ITEM ON THIS PLAN. IN ADDITION, THE ALTERING ARCHITECT, ENGINEER OR LAND SURVEYOR MUST AFFIX TO THE PLAN ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE. COPYRIGHT © 2019

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ENGINEER STAMP:

STATE OF NEW YORK · JACK EISENBACH · NO. 095445 · LICENSED PROFESSIONAL ENGINEER

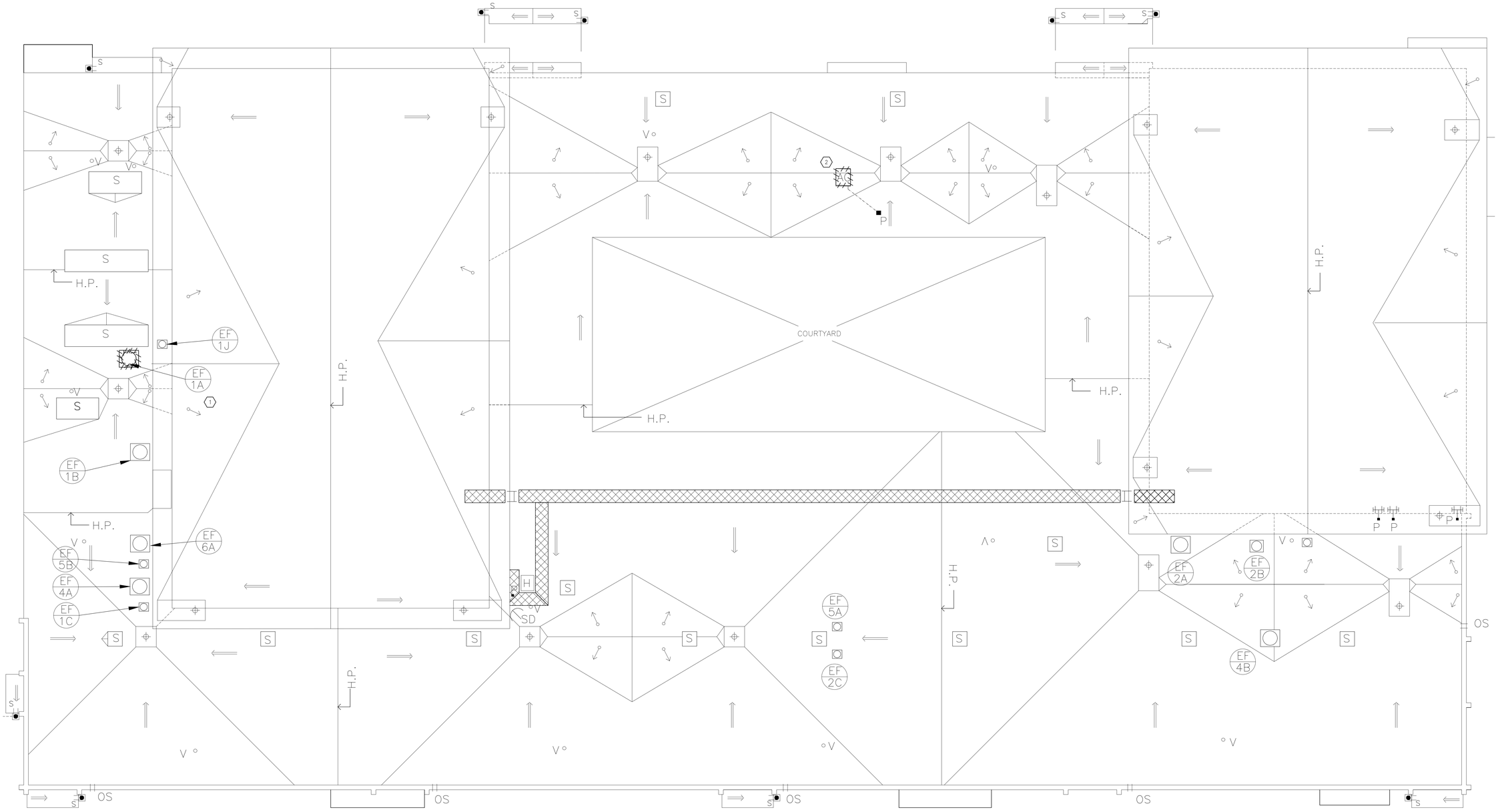
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
SECOND FLOOR PLAN - DEMOLITION

SHEET NO.
MD-101

FILE PATH - N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CD# 10875 YPS MLK\CAD\Part3.1nterior\Y19mlk01.md101.dwg



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

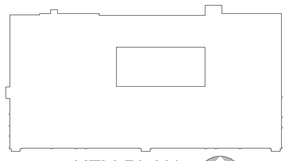
0 2' 4' 8' 16' 32'

KEYED NOTES – DEMOLITION

1. REMOVE EXHAUST FANS. PREPARE FOR NEW WORK. SEE DETAILS ON M501.
2. CAREFULLY REMOVE MINI-SPLIT SYSTEM AND ASSOCIATED MATERIALS IN THEIR ENTIRETY, RETURN TO OWNER.

GENERAL DEMOLITION NOTES:

1. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
2. PROTECT EXISTING TO REMAIN EQUIPMENT AND SURFACES. CONTRACTOR RESPONSIBLE FOR RESTORATION OF DAMAGED EQUIPMENT OR SURFACES TO THE SATISFACTION OF THE DISTRICT.
3. UNLESS OTHERWISE IDENTIFIED, STAGING AREAS TO BE COORDINATED WITH THE DISTRICT.



KEY-PLAN
SCALE: NONE

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YONKERS PUBLIC SCHOOLS
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Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
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YPS NO.	10875
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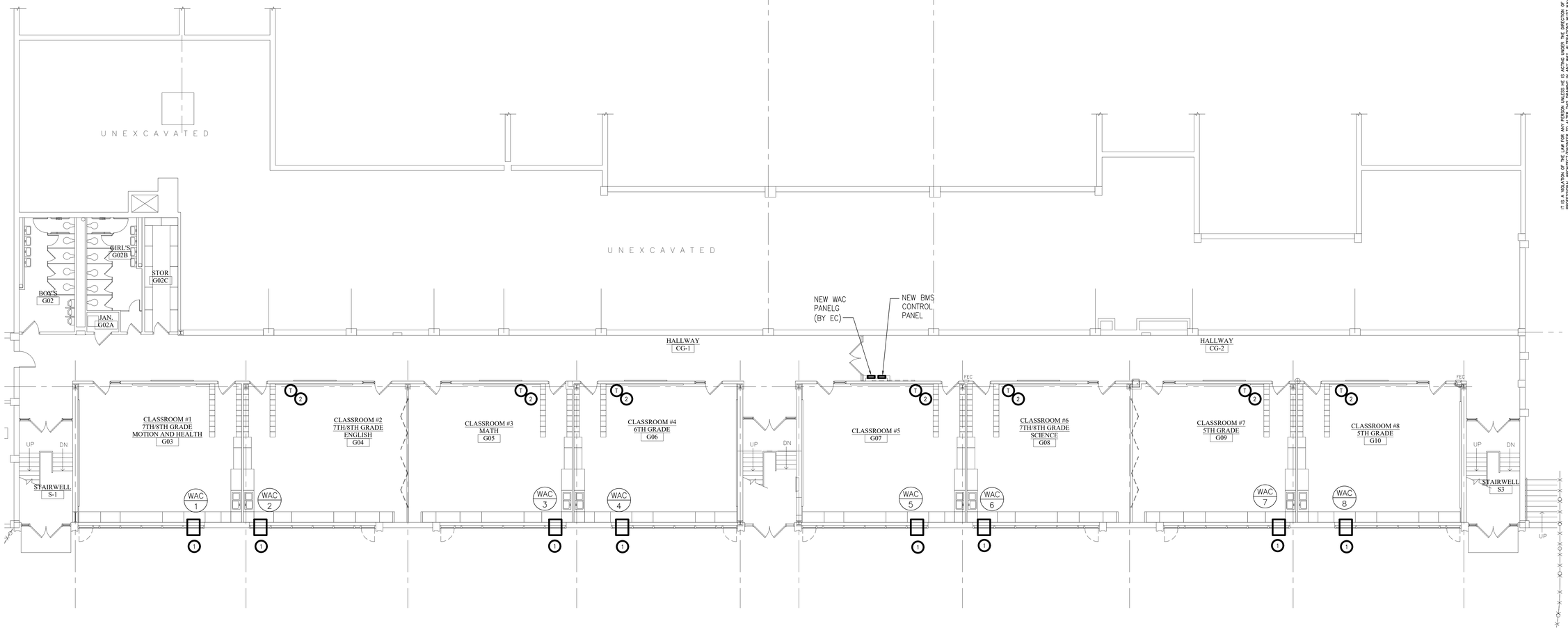
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ROOF PLAN - DEMOLITION

SHEET NO.
MD-102

FILE PATH - N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CD#s 10875 YPS MLK\CAD\Part3_Interior\Y19mlk01_MD102.dwg



KEYED NOTES – NEW WORK:

1. PROVIDE WINDOW AIR CONDITIONER (WAC) FRIEDRICH KUHL MODEL KCL36A30A, WALL SLEEVE MODEL L, AND KCM COMMUNICATION MODULE. INSTALL PER MANUFACTURERS RECOMMENDATIONS. (CONDUIT AND WIRING BY EC) ALL UNITS WILL BE TIED INTO THE BMS SYSTEM WITH ALL APPURTENANCES. SEE M–502 FOR UNIT SCHEDULE.
2. PROVIDE FRIEDRICH KWW WIRELESS THERMOSTAT AND TIE INTO WAC KCM MODULE.

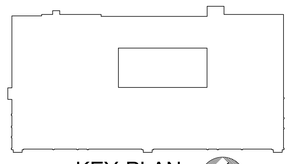
1 GROUND FLOOR PLAN - NEW WORK

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

0 2' 4' 8' 16' 32'

GENERAL NEW WORK NOTES:

1. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
2. PROVIDE FIRESTOP AT ALL INTERIOR WALL AND FLOOR PENETRATIONS. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS TO BE WEATHER TIGHT. SEAL ROOF PENETRATIONS TO BE WEATHER TIGHT AND TO MAINTAIN ROOF WARRANTY.
3. DRAWINGS INDICATE GENERAL DESIGN INTENT ONLY. VERIFY FIELD CONDITIONS BEFORE ORDERING MATERIALS AND EQUIPMENT. IDENTIFY CONFLICTS AND SUBMIT IN WRITING TO ENGINEER.



KEY-PLAN

SCALE: NONE

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ENGINEER STAMP:

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YONKERS PUBLIC SCHOOLS
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Martin Luther King Elementary School

135 Locust Hill Avenue, Yonkers N.Y. 10701

S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

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YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE

GROUND FLOOR PLAN - NEW WORK

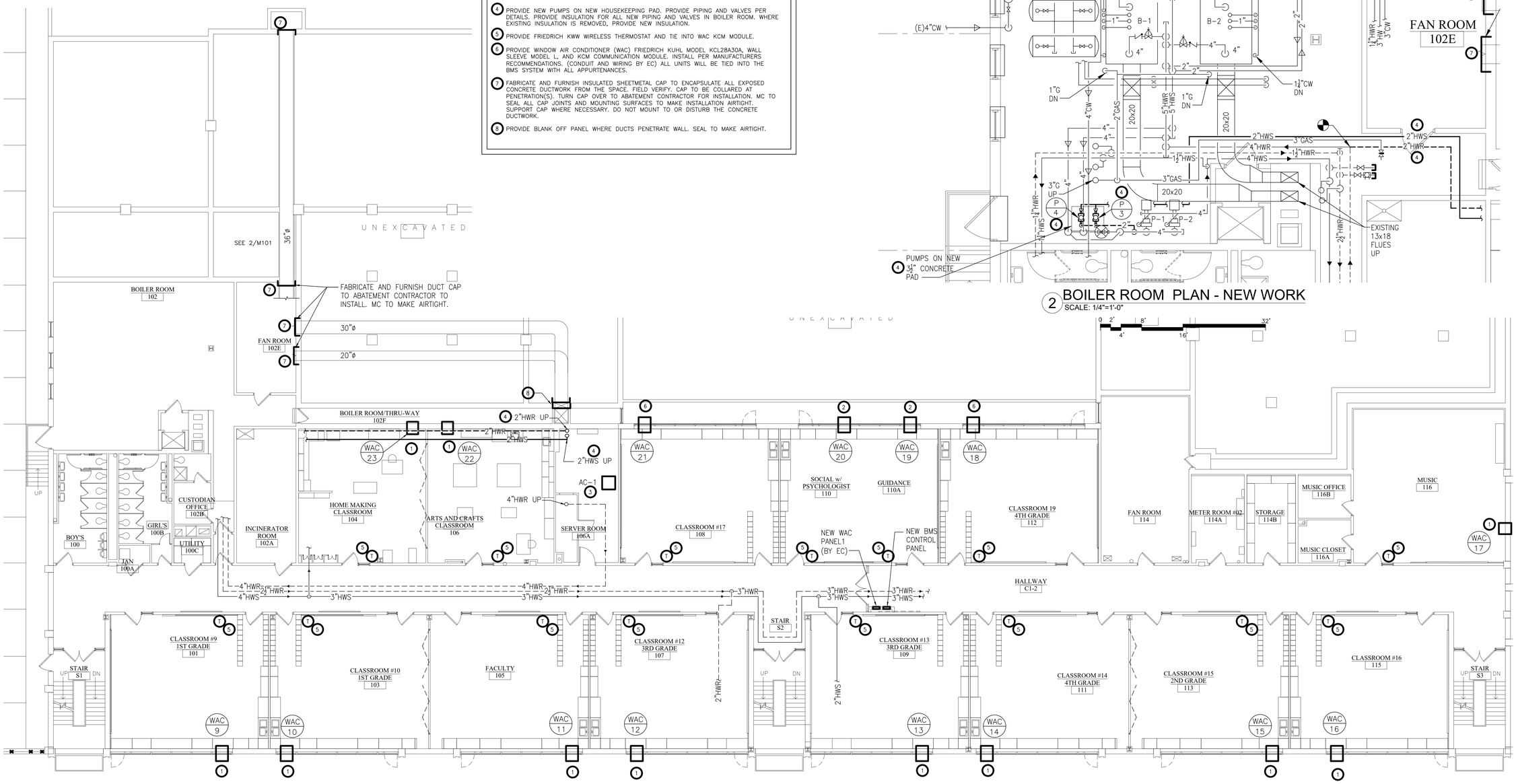
SHEET NO.

M-100

FILE PATH - N:\Y – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.Interior\Y19mlk01.m100.dwg

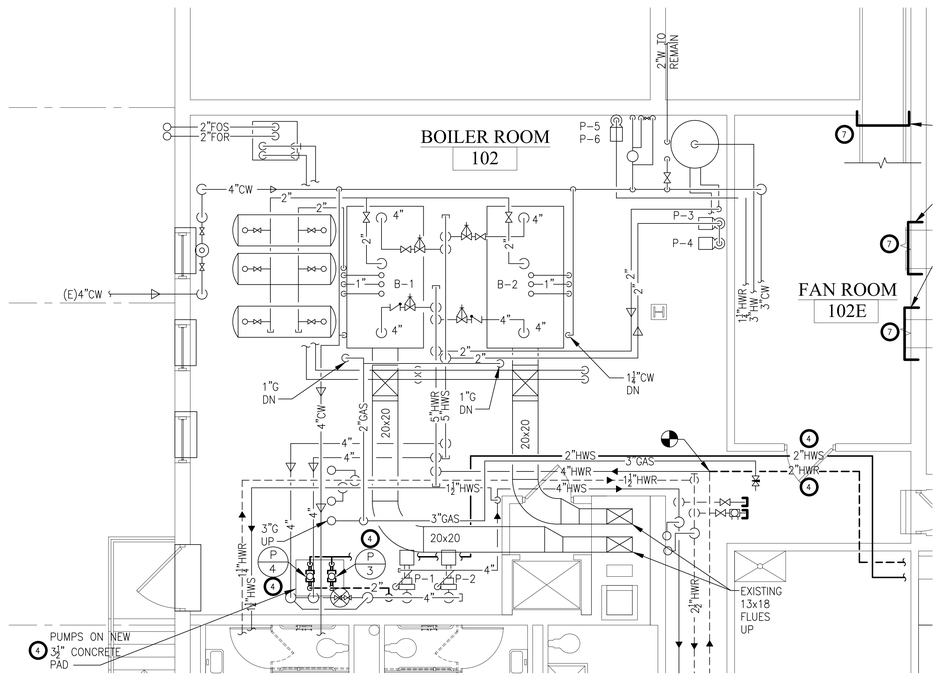
KEYED NOTES – NEW WORK:

1. PROVIDE WINDOW AIR CONDITIONER (WAC) FRIEDRICH KUHL MODEL KCL36A30A, WALL SLEEVE MODEL L, AND KCM COMMUNICATION MODULE. INSTALL PER MANUFACTURERS RECOMMENDATIONS. (CONDUIT AND WIRING BY EC) ALL UNITS WILL BE TIED INTO THE BMS SYSTEM WITH ALL APPURTENANCES. SEE M–502 FOR UNIT SCHEDULE.
2. PROVIDE WINDOW AIR CONDITIONER (WAC) FRIEDRICH KUHL MODEL KCQ10A10A, WALL SLEEVE MODEL Q, AND KCM COMMUNICATION MODULE. INSTALL PER MANUFACTURERS RECOMMENDATIONS. (CONDUIT AND WIRING BY EC) ALL UNITS WILL BE TIED INTO THE BMS SYSTEM WITH ALL APPURTENANCES.
3. PROVIDE SPLIT CASSETTE HITACHI RCI–3.0PNN1DH W/RAS–3.0PNNBDH1 W/LAC AND ALL APPURTENANCES (OR APPROVED EQUAL). CONDENSER TO BE LOCATED 24" ABOVE THE FINISHED ROOF. CONNECT TO BMS SYSTEM
4. PROVIDE NEW PUMPS ON NEW HOUSEKEEPING PAD. PROVIDE PIPING AND VALVES PER DETAILS. PROVIDE INSULATION FOR ALL NEW PIPING AND VALVES IN BOILER ROOM. WHERE EXISTING INSULATION IS REMOVED, PROVIDE NEW INSULATION.
5. PROVIDE FRIEDRICH KWW WIRELESS THERMOSTAT AND TIE INTO WAC KCM MODULE.
6. PROVIDE WINDOW AIR CONDITIONER (WAC) FRIEDRICH KUHL MODEL KCL28A30A, WALL SLEEVE MODEL L, AND KCM COMMUNICATION MODULE. INSTALL PER MANUFACTURERS RECOMMENDATIONS. (CONDUIT AND WIRING BY EC) ALL UNITS WILL BE TIED INTO THE BMS SYSTEM WITH ALL APPURTENANCES.
7. FABRICATE AND FURNISH INSULATED SHEETMETAL CAP TO ENCAPSULATE ALL EXPOSED CONCRETE DUCTWORK FROM THE SPACE. FIELD VERIFY. CAP TO BE COLLARED AT PENETRATION(S). TURN CAP OVER TO ABATEMENT CONTRACTOR FOR INSTALLATION. MC TO SEAL ALL CAP JOINTS AND MOUNTING SURFACES TO MAKE INSTALLATION AIRTIGHT. SUPPORT CAP WHERE NECESSARY. DO NOT MOUNT TO OR DISTURB THE CONCRETE DUCTWORK.
8. PROVIDE BLANK OFF PANEL WHERE DUCTS PENETRATE WALL. SEAL TO MAKE AIRTIGHT.



1 PARTIAL FIRST FLOOR PLAN - NEW WORK
SCALE: 1/8"=1'-0"

0 2' 4' 8' 16' 32'

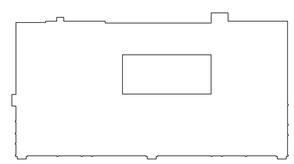


2 BOILER ROOM PLAN - NEW WORK
SCALE: 1/4"=1'-0"

0 2' 4' 8' 16' 32'

GENERAL NEW WORK NOTES:

1. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
2. PROVIDE FIRESTOP AT ALL INTERIOR WALL AND FLOOR PENETRATIONS. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS TO BE WEATHER TIGHT. SEAL ROOF PENETRATIONS TO BE WEATHER TIGHT AND TO MAINTAIN ROOF WARRANTY.
3. DRAWINGS INDICATE GENERAL DESIGN INTENT ONLY. VERIFY FIELD CONDITIONS BEFORE ORDERING MATERIALS AND EQUIPMENT. IDENTIFY CONFLICTS AND SUBMIT IN WRITING TO ENGINEER.
4. GENERAL INTENT FOR PIPING SHOWN FOR BIDDING PURPOSES ONLY. PIPE INSTALLATION SHALL BE BASED ON FINAL LOCATIONS OF EQUIPMENT. PROVIDE SUPPORTS AND PIPE INSULATION ON ALL NEW PIPING AND PROVIDE VALVES AS SPECIFIED ON THE COIL DETAILS.



KEY-PLAN
SCALE: NONE

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ENGINEER STAMP:

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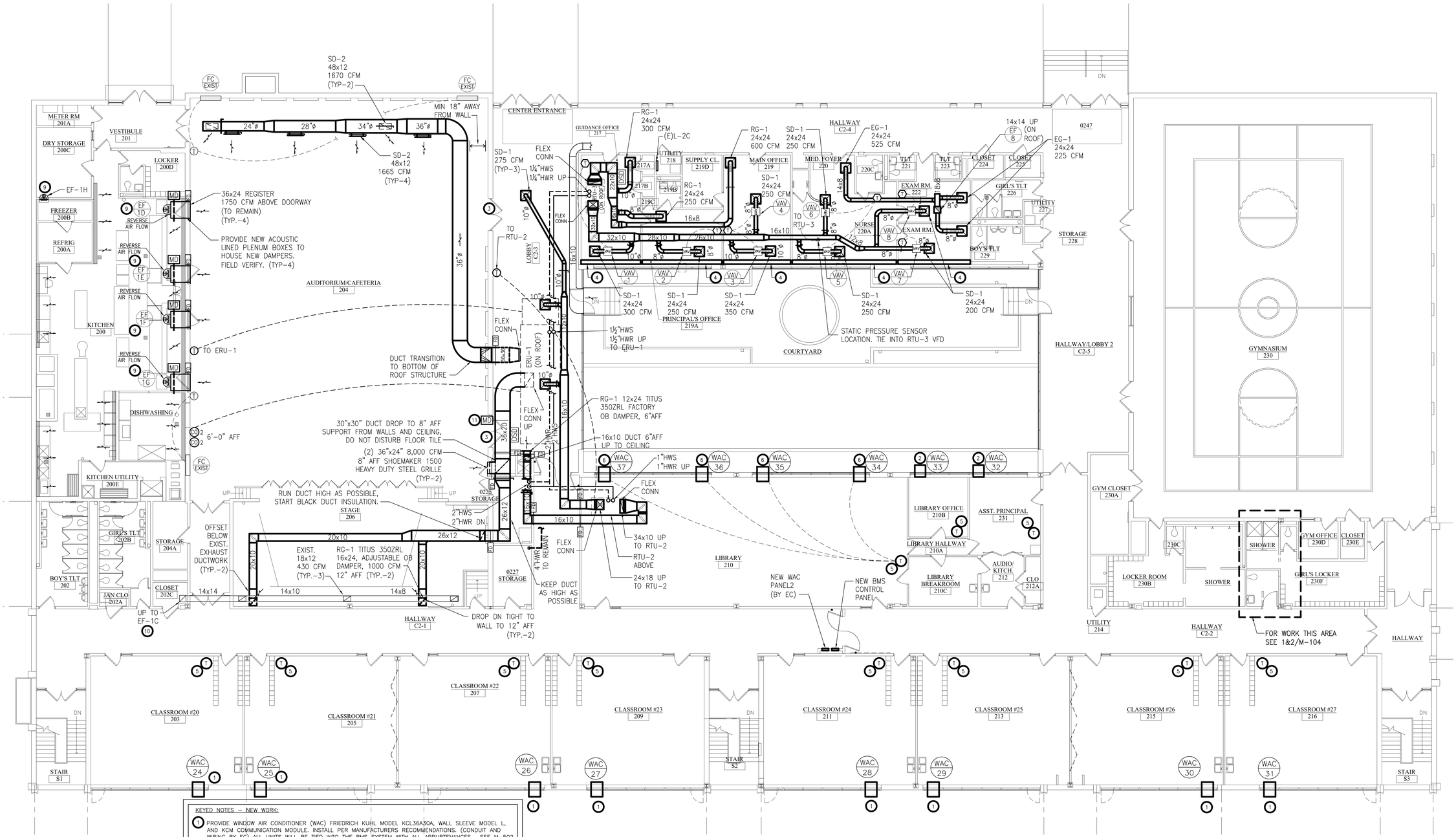
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEALS
WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	**12/07/2023**
REVISION	DATE
DRAWN BY	
CHECKED BY	JE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
FIRST FLOOR
PLAN - NEW WORK

SHEET NO.
M-101

FILE PATH –N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.interior\Y19mlk01.m101.dwg



KEYED NOTES – NEW WORK:

1. PROVIDE WINDOW AIR CONDITIONER (WAC) FRIEDRICH KUHL MODEL KCL36A30A, WALL SLEEVE MODEL L, AND KCM COMMUNICATION MODULE. INSTALL PER MANUFACTURERS RECOMMENDATIONS. (CONDUIT AND WIRING BY EC) ALL UNITS WILL BE TIED INTO THE BMS SYSTEM WITH ALL APPURTENANCES. SEE M–502 FOR UNIT SCHEDULE.
2. PROVIDE WINDOW AIR CONDITIONER (WAC) FRIEDRICH KUHL MODEL KCQ06A10A, WALL SLEEVE MODEL Q, AND KCM COMMUNICATION MODULE. INSTALL PER MANUFACTURERS RECOMMENDATIONS. (CONDUIT AND WIRING BY EC) ALL UNITS WILL BE TIED INTO THE BMS SYSTEM WITH ALL APPURTENANCES. SEE M–502 FOR UNIT SCHEDULE.
3. ABANDON GRILLE IN PLACE BLANK OFF CORRIDOR SIDE WITH SHEET METAL CAP.
4. PROVIDE ALL NEW SHEET METAL FIN TUBE ENCLOSURES, MATCH EXISTING HEIGHTS AND PAINT WHITE. ENCLOSURES SHALL BE FREE FROM GAPS AND SHARP EDGES. SEAL ALL WALL PENETRATIONS IN WALLS BEFORE INSTALLATION OF NEW ENCLOSURES.
5. PROVIDE FRIEDRICH KWW WIRELESS THERMOSTAT AND TIE INTO WAC KCM MODULE.
6. PROVIDE WINDOW AIR CONDITIONER (WAC) FRIEDRICH KUHL MODEL KCM14A10A, WALL SLEEVE MODEL M, AND KCM COMMUNICATION MODULE. INSTALL PER MANUFACTURERS RECOMMENDATIONS. (CONDUIT AND WIRING BY EC) ALL UNITS WILL BE TIED INTO THE BMS SYSTEM WITH ALL APPURTENANCES. SEE M–502 FOR UNIT SCHEDULE.
7. PROVIDE ALL NEW INSULATED DUCTWORK, GRILLES, DIFFUSERS, VOLUME DAMPERS, ETC AS SHOWN. SEAL TO BE AIRTIGHT. ALL NEW INSULATION ABOVE STAGE TO BE BLACK.
8. PROVIDE NEW VAV BOXES WITH MOTORIZED DAMPERS AS SHOWN. TIE INTO NEW TEMP SENSOR AND VAV CONTROLS FOR RTU. PROVIDE DUCT TRANSITIONS AS REQUIRED. SEE SCHEDULE ON DRAWING M–500.
9. PROVIDE NEW FANS AS INDICATED. SEE SCHEDULE ON DRAWING M–500. PROVIDE NEW DAMPERS AND MOTORIZED ACTUATORS AS SHOWN. SEAL DUCTWORK TO BE AIRTIGHT. FIELD VERIFY EXISTING DUCTWORK. DO NOT DISTURB KITCHEN HOOD DUCTWORK ABOVE CEILING OR CEILING TILES DIRECTLY UNDER THE DUCTWORK. MODIFY/REMOVE PARTIAL EXISTING ACOUSTIC LINED FOR INSTALLATION OF MD'S.
10. EF–1C TO BE PLACED ON STANDBY WITH A NEW WALL SWITCH LOCATED ON STAGE (BY EC).
11. PROVIDE MOTORIZED DAMPER TO MODULATE ACCORDING TO CONTROL SEQUENCING ON DRAWING M–600.

NOTE: FOR SPACES EQUIPPED WITH FIN TUBE RADIATION THAT WILL ALSO BE SERVED BY A NEW AHU OR RTU, CONFIGURE CONTROLS TO ALLOW FIN TUBE RADIATION TO HEAT AFFECTED ROOMS WHILE THE AHU/RTU IS OFF.

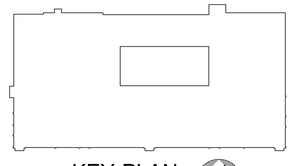
1 SECOND FLOOR PLAN - NEW WORK

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

0 2' 4' 8' 16' 32'

GENERAL NEW WORK NOTES:

1. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
2. PROVIDE FIRESTOP AT ALL INTERIOR WALL AND FLOOR PENETRATIONS. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS TO BE WEATHER TIGHT. SEAL ROOF PENETRATIONS TO BE WEATHER TIGHT AND TO MAINTAIN ROOF WARRANTY.
3. DRAWINGS INDICATE GENERAL DESIGN INTENT ONLY. VERIFY FIELD CONDITIONS BEFORE ORDERING MATERIALS AND EQUIPMENT. IDENTIFY CONFLICTS AND SUBMIT IN WRITING TO ENGINEER.
4. GENERAL INTENT FOR PIPING SHOWN FOR BIDDING PURPOSES ONLY. PIPE INSTALLATION SHALL BE BASED ON FINAL LOCATIONS OF EQUIPMENT. PROVIDE SUPPORTS AND PIPE INSULATION ON ALL NEW PIPING AND PROVIDE VALVES AS SPECIFIED ON THE COIL DETAILS.
5. PROVIDE DUCTWORK TO ALIGN DIFFUSERS AND GRILLES WITH CEILING GRID. COORDINATE WITH ARCHITECTURAL DRAWINGS.
6. CONTRACTOR RESPONSIBLE TO MAINTAIN A SEALED INSULATED BARRIER FOR DUCTWORK AND ASSOCIATED TO PREVENT FORMATION OF CONDENSATION. PROVIDE NEW INSULATION ON NEW DUCTWORK INSTALLATIONS. DAMAGED/MISSING AREAS OF EXISTING DUCTWORK INSULATION SHALL BE RECORDED BY THE CONTRACTOR AND BE SUBMITTED TO THE ENGINEER. UPON APPROVAL, CONTRACTOR TO REPAIR/REPLACE AND SEAL WITH ADHESIVE ALUMINUM TAPE. REPAIR OR REPLACEMENT OF EXISTING DUCTWORK INSULATION THAT IS NOT ALREADY NOTED ON THE DRAWINGS SHALL BE PROVIDED ON T&M BASIS AGAINST THE CONTRACT ALLOWANCE – REFER TO SPECIFICATIONS.



KEY-PLAN

SCALE: NONE

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SCALE	AS SHOWN

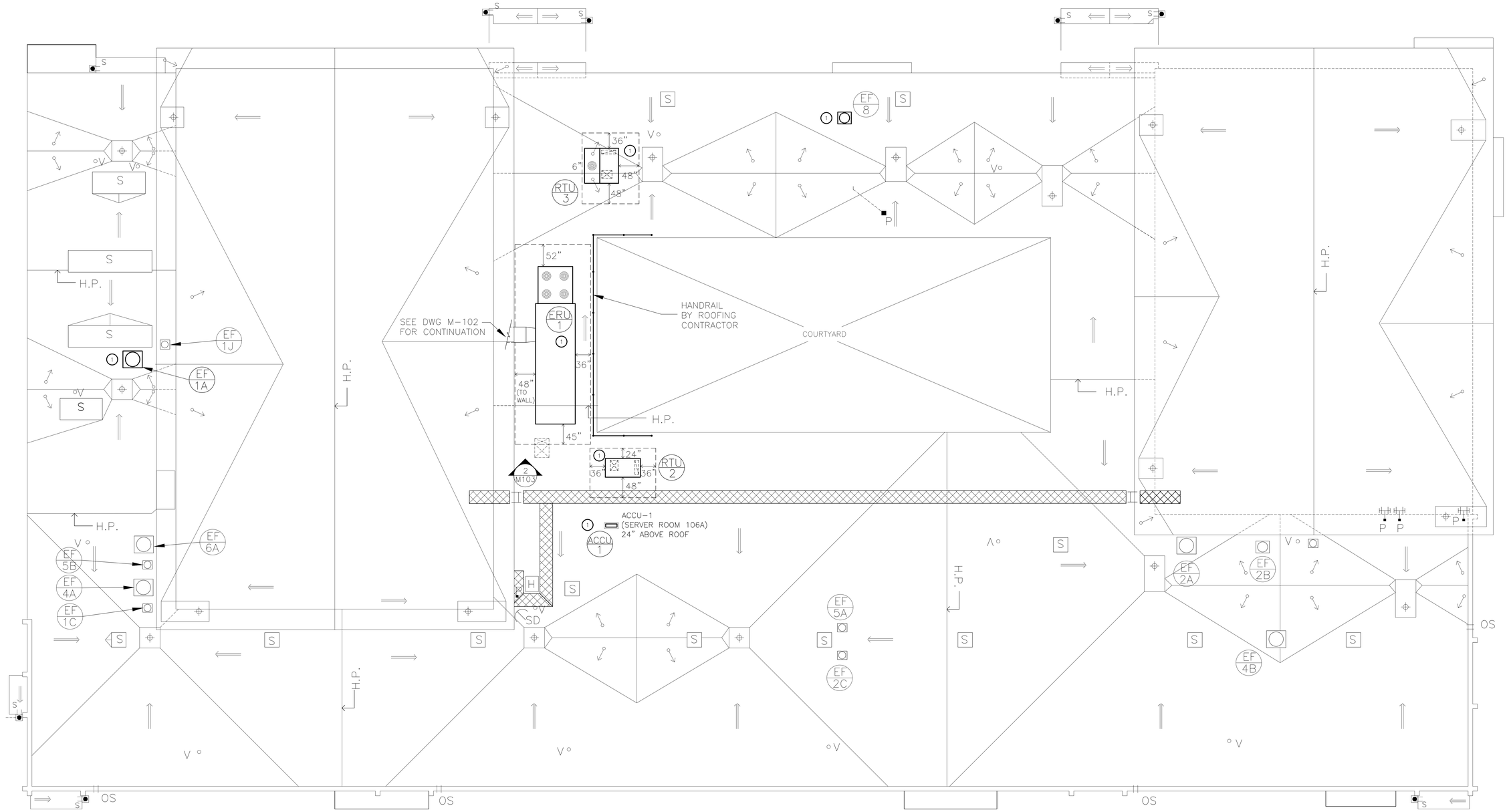
SHEET TITLE

SECOND FLOOR PLAN - NEW WORK

SHEET NO.

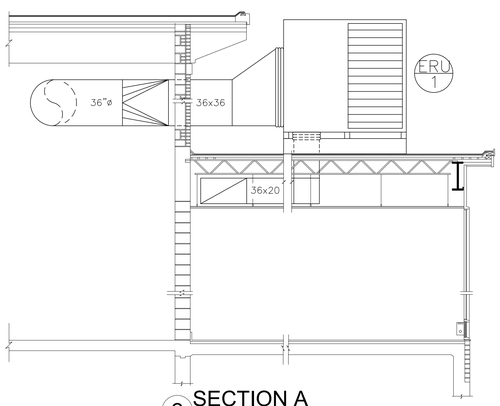
M-102

FILE PATH - N:\Y – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 (Dir# 10875 YPS MLK\CAD\Part3.Interior\Y19mlk01.m102.dwg



1 ROOF PLAN - NEW WORK
SCALE: 1/18"=1'-0"

0 2' 4' 8' 16' 32'



2 SECTION A
SCALE: 1/4"=1'-0"

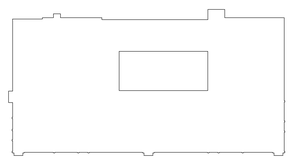
NOTE: SEE STRUCTURAL DRAWINGS FOR DETAILED STEEL WORK

KEYED NOTES – NEW WORK:

1. PROVIDE NEW EQUIPMENT AS SHOWN. REFER TO M-500 AND M-501 FOR ADDITIONAL INFORMATION. COORDINATE WITH STRUCTURAL DRAWINGS. FINAL LOCATION OF EQUIPMENT TO BE DETERMINED BASED ON FIELD CONDITIONS. POSITION SO APPLICABLE DUCTWORK/PIPING AVOIDS STRUCTURAL MEMBERS. MC SHALL BE RESPONSIBLE FOR ROOFTOP CURBS AND PIPE/WIRING PORTALS. COORDINATE WITH ROOF DRAWINGS FOR ADDITIONAL DETAILS ABOUT ROOFTOP DUCT INSULATION AND CURBS. MFR CLEARANCES SHOWN FOR REFERENCE.

GENERAL NEW WORK NOTES:

1. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
2. PROVIDE FIRESTOP AT ALL INTERIOR WALL AND FLOOR PENETRATIONS. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS TO BE WEATHER TIGHT. SEAL ROOF PENETRATIONS TO BE WEATHER TIGHT AND TO MAINTAIN ROOF WARRANTY.
3. DRAWINGS INDICATE GENERAL DESIGN INTENT ONLY. VERIFY FIELD CONDITIONS BEFORE ORDERING MATERIALS AND EQUIPMENT. IDENTIFY CONFLICTS AND SUBMIT IN WRITING TO ENGINEER.



KEY-PLAN
SCALE: NONE

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ENGINEER STAMP:
STATE OF NEW YORK · JACK EISENBACH · LICENSED PROFESSIONAL ENGINEER · No. 099145

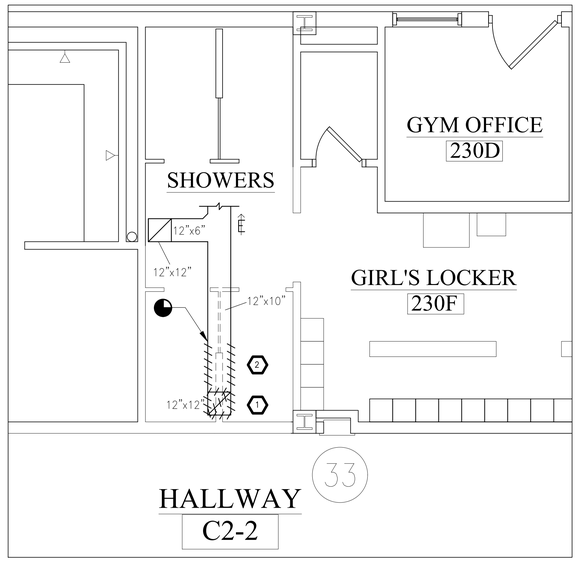
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ROOF PLAN
NEW WORK

SHEET NO.
M-103

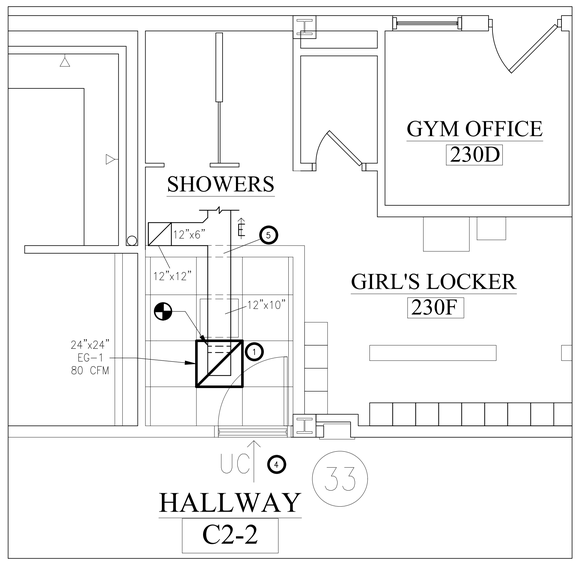
FILE PATH - N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.Interior\y19mlk01.M103.dwg



1 SECOND FLOOR NEW BATHROOM PLAN - DEMOLITION
SCALE: 3/8"=1'-0"

KEYED NOTES – REMOVALS:

1. REMOVE EXISTING EXHAUST GRILLE AND NECK.
2. DETERMINE IN FIELD AND REMOVE PORTIONS OF EXISTING 12"x10" DUCTWORK NECESSARY TO POSITION NEW 24"x24" EG-1 TO FIT A FULL 24"x24" SPACE IN THE NEW CEILING GRID AS SHOWN IN THE NEW WORK PLAN. COORDINATE WITH ARCHITECTURAL AND PLUMBING REMOVALS.



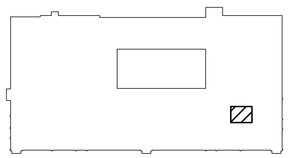
2 NEW BATHROOM REFLECTED CEILING PLAN - NEW WORK
SCALE: 3/8"=1'-0"

KEYED NOTES – NEW WORK:

1. PROVIDE NEW EG-1 24"x24" EXHAUST GRILLE MODEL: TITUS 350ZL AND NECK INTO NEW CEILING GRID. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS.
2. DETERMINE IN FIELD AND PROVIDE ANY NECESSARY NEW DUCT, DAMPERS, AND MATERIALS TO ROUTE FROM EXISTING DUCTWORK TO CONNECT AND POSITION EG-1 TO FIT A FULL 24"x24" SPACE IN THE NEW CEILING GRID AS SHOWN.
3. SEAL ANY SPACES OR GAPS IN NEW AND EXISTING DUCTWORK AND MAKE AIR TIGHT. PROVIDE FIRESTOPPING AT WALL PENETRATIONS.
4. COORDINATE WITH GC AND DOOR SCHEDULE FOR INSTALLATION OF DOORS. DOOR TO HAVE 3/4" UNDERCUT.
5. PROVIDE PENETRATION AND FIRE STOPPING WHERE REQUIRED THROUGH NEW WALL ABOVE NEW DROP CEILING. ROUTE TO AVOID STRUCTURAL STEEL.

GENERAL NEW WORK NOTES:

1. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
2. PROVIDE FIRESTOP AT ALL INTERIOR WALL AND FLOOR PENETRATIONS, SEAL AROUND ALL EXTERIOR WALL PENETRATIONS TO BE WEATHER TIGHT. SEAL ROOF PENETRATIONS TO BE WEATHER TIGHT AND TO MAINTAIN ROOF WARRANTY.
3. DRAWINGS INDICATE GENERAL DESIGN INTENT ONLY. VERIFY FIELD CONDITIONS BEFORE ORDERING MATERIALS AND EQUIPMENT. IDENTIFY CONFLICTS AND SUBMIT IN WRITING TO ENGINEER.
4. PROVIDE DUCTWORK TO ALIGN DIFFUSERS AND GRILLES WITH CEILING GRID. COORDINATE WITH ARCHITECTURAL DRAWINGS.



KEY-PLAN
SCALE: NONE

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ENGINEER STAMP:

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YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
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E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	**12/07/2023**
REVISION	DATE
DRAWN BY	
CHECKED BY	JJE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
SECOND FLOOR PLAN - DEMOLITION AND NEW WORK

SHEET NO.
M-104

FILE PATH - N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 DIR# 10875 YPS MLK\CAD\Part3.Interior\Y19mlk01.m104.dwg

ROOF TOP UNIT SCHEDULE (DX COOLING)

UNIT NO.	LOCATION	SERVICE	AIRFLOW CONDITIONS		OCCUPIED OUTDOOR AIR (MIN CFM)	SUPPLY FAN (CFM)	EXHAUST FAN (CFM)	S.P. IN W.G.	MOTOR					ENTHALPY WHEEL						MIXING	MIXING POINT		DX COOLING				HOT WATER HEATING					PRE FILTERS	ESTIMATED ELECTRICAL DATA				DIMENSIONS			DESIGN EQUIPMENT
			SUPPLY AIR (MAX CFM)	RETURN AIR (MAX CFM)				SA TOTAL RA TOTAL	FLA	HP	VOLTS	HERTZ PHASE	STARTER	LAT(SUMMER) DB	LAT(SUMMER) WB	LAT (WINTER) DB	LAT (WINTER) WB	HP	FROST CONTROL		CFM	MIXING TEMP DB/WB	EAT DB/WB	LAT DB/WB	SENSIBLE MBH	TOTAL MBH	TON	EAT/LAT DB	EAT/LAT DB	OUTPUT MBH	MINIMUM INPUT MBH	EWT/LWT	SA & EA	VOLTAGE	FLA	MCA	MOP	L	W	H	
ERU-1	ROOF	AUD/CAFE	10,000	10,000	3700	2-5,000	2-5,000	3.00/3.00		10	208	3/60	YES	79.7	67.3	56.6	44.8	.25	VFD	SUMMER/ WINTER	10,000	SUMMER 78.0D/65.7T WINTER 62.5/48.5	78.0/65.8	57/57	254	300	25	62.5	75	151.1S4	189	180/160	2"-MERV13	208/3/60	201	212	225	377	96	93	ANNEXAIR MODEL ERP-E-09-EW03-UV-C-H-AST24 NOTES:1,2,4,5,6,7
RTU-2	ROOF	CORRIDOR	825	825	75			1.00/1.00	6	1	208	3/60	YES															53.8	109	48.6	60	180/160		208/3/60	7	9	15	82	44	28	AAON RQ-002 NOTES:1,2,3
RTU-3	ROOF	OFFICE AREA	2050	1150	300			2.0	27	2	208	3/60	YES										77.0B/63.5A	55.3A/54.2B	63.18	67.13		65.6	94.3	74.8		180/160		208/3/60	27	31	45	82	79	44	AAON RN-006 NOTES:1,2,3,5

ERU-1 SUMMER OA 92db/74wb, RA 75db/63wb. WINTER OA -5db/-5wb RA 72db/54wb
RTU-2 AAON RQ-002-8-V-0000-314A000-D00-QKC-000-0000000E-00-0000000VB
RTU-3 AAON RN-006-8-O-EB09-EHN:A000-00B-DCD-AGA-00EA00E-00-0000000VB
NOTE 1: PROVIDE UV-C LIGHTS AND APPURTENANCES PER MANUFACTURERS RECOMMENDATIONS
NOTE 2: PROVIDE MERV-13 FILTER TO UNIT.
NOTE 3: PROVIDE WITH FIXED 24" ROOF CURB AND VIBRATION ISOLATION PADS. CONNECT TO DUCTWORK WITH FLEXIBLE CONNECTIONS.
NOTE 4: TIE INTO NEW EF-1A CONTROL SEQUENCE. SEE DRAWING M-600.
NOTE 5: PROVIDE FACTORY VFD.
NOTE 6: PROVIDE WITH CO2 MONITORING TO ADJUST UNIT CFM, TIE INTO CO2 DETECTOR(S) IN SPACE.
NOTE 7: PROVIDE WITH FIXED 12" ROOF CURB AND VIBRATION ISOLATION PADS. CONNECT TO DUCTWORK WITH FLEXIBLE CONNECTIONS.

WINDOW AIR CONDITIONER SCHEDULE

EQUIPMENT							
DESIGNATION	DESCRIPTION	ROOM LOCATION	REFERENCE DRAWING LOCATION	COOLING		VOLTAGE/ PHASE	POWER WIRING FROM CONTROL UNIT TO EQUIPMENT
				RATED BTU	APPROX TONS		WIRE / COND.
WAC-1	WINDOW AIR CONDITIONER	ROOM G03	M-100	35000	3	230/1/60	BUILT-IN --
WAC-2	WINDOW AIR CONDITIONER	ROOM G04	M-100	35000	3	230/1/60	BUILT-IN --
WAC-3	WINDOW AIR CONDITIONER	ROOM G05	M-100	35000	3	230/1/60	BUILT-IN --
WAC-4	WINDOW AIR CONDITIONER	ROOM G06	M-100	35000	3	230/1/60	BUILT-IN --
WAC-5	WINDOW AIR CONDITIONER	ROOM G07	M-100	35000	3	230/1/60	BUILT-IN --
WAC-6	WINDOW AIR CONDITIONER	ROOM G08	M-100	35000	3	230/1/60	BUILT-IN --
WAC-7	WINDOW AIR CONDITIONER	ROOM G09	M-100	35000	3	230/1/60	BUILT-IN --
WAC-8	WINDOW AIR CONDITIONER	ROOM G10	M-100	35000	3	230/1/60	BUILT-IN --
WAC-9	WINDOW AIR CONDITIONER	ROOM 101	M-101	35000	3	230/1/60	BUILT-IN --
WAC-10	WINDOW AIR CONDITIONER	ROOM 103	M-101	35000	3	230/1/60	BUILT-IN --
WAC-11	WINDOW AIR CONDITIONER	ROOM 105	M-101	35000	3	230/1/60	BUILT-IN --
WAC-12	WINDOW AIR CONDITIONER	ROOM 107	M-101	35000	3	230/1/60	BUILT-IN --
WAC-13	WINDOW AIR CONDITIONER	ROOM 109	M-101	35000	3	230/1/60	BUILT-IN --
WAC-14	WINDOW AIR CONDITIONER	ROOM 111	M-101	35000	3	230/1/60	BUILT-IN --
WAC-15	WINDOW AIR CONDITIONER	ROOM 113	M-101	35000	3	230/1/60	BUILT-IN --
WAC-16	WINDOW AIR CONDITIONER	ROOM 115	M-101	35000	3	230/1/60	BUILT-IN --
WAC-17	WINDOW AIR CONDITIONER	ROOM 116	M-101	35000	3	230/1/60	BUILT-IN --
WAC-18	WINDOW AIR CONDITIONER	ROOM 112	M-101	28000	2-1/2	230/1/60	BUILT-IN --
WAC-19	WINDOW AIR CONDITIONER	ROOM 110A	M-101	8000	2/3	115/1/60	BUILT-IN --
WAC-20	WINDOW AIR CONDITIONER	ROOM 110	M-101	8000	2/3	115/1/60	BUILT-IN --
WAC-21	WINDOW AIR CONDITIONER	ROOM 108	M-101	28000	2-1/2	230/1/60	BUILT-IN --
WAC-22	WINDOW AIR CONDITIONER	ROOM 106	M-101	35000	3	230/1/60	BUILT-IN --
WAC-23	WINDOW AIR CONDITIONER	ROOM 104	M-101	35000	3	230/1/60	BUILT-IN --
WAC-24	WINDOW AIR CONDITIONER	ROOM 203	M-102	35000	3	230/1/60	BUILT-IN --
WAC-25	WINDOW AIR CONDITIONER	ROOM 205	M-102	35000	3	230/1/60	BUILT-IN --
WAC-26	WINDOW AIR CONDITIONER	ROOM 207	M-102	35000	3	230/1/60	BUILT-IN --
WAC-27	WINDOW AIR CONDITIONER	ROOM 209	M-102	35000	3	230/1/60	BUILT-IN --
WAC-28	WINDOW AIR CONDITIONER	ROOM 211	M-102	35000	3	230/1/60	BUILT-IN --
WAC-29	WINDOW AIR CONDITIONER	ROOM 213	M-102	35000	3	230/1/60	BUILT-IN --
WAC-30	WINDOW AIR CONDITIONER	ROOM 215	M-102	35000	3	230/1/60	BUILT-IN --
WAC-31	WINDOW AIR CONDITIONER	ROOM 216	M-102	35000	3	230/1/60	BUILT-IN --
WAC-32	WINDOW AIR CONDITIONER	ROOM 231	M-102	6000	1/2	115/1/60	BUILT-IN --
WAC-33	WINDOW AIR CONDITIONER	ROOM 210B	M-102	6000	1/2	115/1/60	BUILT-IN --
WAC-34	WINDOW AIR CONDITIONER	ROOM 210	M-102	14000	1	115/1/60	BUILT-IN --
WAC-35	WINDOW AIR CONDITIONER	ROOM 210	M-102	14000	1	115/1/60	BUILT-IN --
WAC-36	WINDOW AIR CONDITIONER	ROOM 210	M-102	14000	1	115/1/60	BUILT-IN --
WAC-37	WINDOW AIR CONDITIONER	ROOM 210	M-102	14000	1	115/1/60	BUILT-IN --

AU- AT UNIT (NEW)
N/A- NOT APPLICABLE
RE- REUSE EXISTING
WAC- WINDOW AIR CONDITIONER

NOTES (FOR WINDOW AIR CONDITIONER UNITS):
1. MC SHALL COORDINATE WITH EC THE LOCATION OF ALL WAC.
2. ALL WAC UNITS TO BE INSTALLED BY MC PER DRAWINGS M-100, M-101 AND M-102.
3. EC SHALL PROVIDE POWER OUTLET PER SCHEDULE ABOVE.

VAV TERMINAL UNIT SCHEDULE

MARK	SERVICE	MODEL	INLET SIZE	DAMPER TYPE	MFR. CFM RANGE	ALLOWABLE CFM RANGE	MAX CFM SETTING	REMARKS
VAV-1	GUIDANCE 217	CARNES AVCD-10	10"ø	ZONE	0-1500	100-300	300	
VAV-2	PRIN. 219A	CARNES AVCD-08	8"ø	ZONE	0-1000	25-250	350	
VAV-3	MAIN OFF 219	CARNES AVCD-10	10"ø	ZONE	0-1500	40-350	350	
VAV-4	MAIN OFF 219	CARNES AVCD-08	8"ø	ZONE	0-1000	40-250	250	
VAV-5	NURSE 220A	CARNES AVCD-08	8"ø	ZONE	0-1000	25-250	250	
VAV-6	NURSE 220A	CARNES AVCD-08	8"ø	ZONE	0-1000	25-250	250	
VAV-7	EXAM RM	CARNES AVCD-08	8"ø	ZONE	0-1000	25-200	200	
VAV-8	EXAM RM	CARNES AVCD-08	8"ø	ZONE	0-1000	20-200	200	

NOTE 1: PROVIDE VOLUME DAMPERS AS SHOWN ON THE DRAWINGS FOR AIR BALANCING.
NOTE 2: CONTRACTOR TO MAINTAIN MFR RECOMMENDED CLEARANCES FOR UNIT DURING PLACEMENT. INSTALL UNIT ACCORDING TO MFR RECOMMENDATIONS. SUPPORT USING TRAPEZE HANGERS AND VIBRATION ISOLATORS.
NOTE 3: PROVIDE NEW VAV BOX W/ DDC CONTROLS, ACTUATOR, AND WALL THERMOSTAT. TIE INTO NEW RTU. PROVIDE STATIC PRESSURE SENSOR AND TIE INTO RTU VFD.
NOTE 4: CONTRACTOR TO BALANCE VAV BOXES AND SUPPLY DIFFUSERS UTILIZING VOLUME DAMPERS, VAV BOXES, AND VAV MAIN CONTROLLER TO CFM VALUES INDICATED. SUBMIT TAB REPORT PROVING PERFORMANCE.
NOTE 5: PROVIDE ALL DUCT COLLARS AND TRANSITIONS REQUIRED TO MEET VAV BOX INLET AND OUTLET SIZES.

EXHAUST FAN SCHEDULE

(EF)

UNIT NO.	LOCATION	SERVICE	TYPE	CFM	S.P.	ADJUTABLE MOTOR PULLEY	MOTORIZED DAMPER	FAN RPM	SONES	DRIVE	MOTOR RPM	MOTOR HP	MOTOR VOLTS	MOTOR PHASE	MOTOR STARTER	DESIGN EQUIPMENT (NOTES)
EF-1A	ROOF	KITCHEN RANGE	UPBLAST	6000	1.0	YES	YES	903	17.7	BELT	1725	2	208	3	YES	(1,7) GREENHECK CUBE-240-20
EF-1D	KITCHEN	KITCH/TRANS	CENTRIF INLINE	1750	0.13		YES	1614	12.4	DIRECT	1725	1/2	115	1	YES	(2) GREENHECK SQ-120-VG
EF-1E	KITCHEN	KITCH/TRANS	CENTRIF INLINE	1750	0.13		YES	1614	12.4	DIRECT	1725	1/2	115	1	YES	(2) GREENHECK SQ-120-VG
EF-1F	KITCHEN	KITCH/TRANS	CENTRIF INLINE	1750	0.13		YES	1614	12.4	DIRECT	1725	1/2	115	1	YES	(2) GREENHECK SQ-120-VG
EF-1G	KITCHEN	KITCH/TRANS	CENTRIF INLINE	1750	0.13		YES	1614	12.4	DIRECT	1725	1/2	115	1	YES	(2) GREENHECK SQ-120-VG
EF-1H	KITCHEN STOR.	KITCH/TRANS	CENTRIF INLINE	600	.25			1550	7.5	DIRECT	1725	1/10	115	1	YES	(3) GREENHECK SQ-90-D
EF-8	ROOF	ADMIN AREA	DNBLAST	975	0.5	YES	YES	1140	7.9	BELT	1140	1/4	115	1	YES	(6) GREENHECK GB-121-4

NOTES:
(1) PROVIDE SWITCH, NEMA 1. PROVIDE HINGED CURB CAP KIT WITH CABLES, SUPPORT BRAKET, GREASE TRAP, HEAT BAFFLE AND BEARINGS WITH GREASE FITTING. PROVIDE VENTED ROOF CURB MODEL GPFV GALVANIZED. PROVIDE VFD
(2) PROVIDE VARI-GREEN EC MOTOR WITH CONTROLS, SWITCH, NEMA 1, ALUMINUM WHEEL, MOTOR COVER, ISOLATORS BRACKETS AND SPRING HANGING
(3) PROVIDE SWITCH, NEMA 1. COMPOSITE WHEEL MATERIAL, ISOLATORS, HANGERS AND BRACKETS AND SPRING HANGING
(4) NOT USED
(5) NOT USED
(6) PROVIDE STANDARD CURB MODEL GPI GALVANIZED, SWITCH, NEMA 1. PROVIDE FOAM CURB SEAL
(7) PROVIDE CONTROL RELAY AND APPURTENANCES TO TIE EF-1A INTO ERU-1, EF-1D, EF-1E, EF-1F, EF-1G, AND ASSOCIATED MOTORIZED DAMPERS. SEE DRAWING M-600.

INSULATION SCHEDULE

TYPE	EQUIPMENT OR SYSTEM SERVED	INSULATION CLASS (a)			JACKETING CLASS (b)			THICKNESS (IN) NOMINAL PIPE SIZE (IN)					DUCTWORK
		INTERIOR CONCEALED	INTERIOR EXPOSED	EXTERIOR	INTERIOR GENERAL	EQUIPMENT ROOMS	EXTERIOR	<1"	1"-<1½"	1½"- <4"	4 "- <8"	≥8" & UP	(c)
A	RS, RL	FE	FE	FE	0	0	4	0.5	1.5	1.5	1.5	1.5	
B	DCW, COOLING COIL CONDENSATE	FE	--	--	0	--	--	0.5	0.5	1.0	1.0	1.0	
		--	FE	--	--	4	--	0.5	0.5	1.0	1.0	1.0	
C	HWS, HWR	FG	--	--	1	--	--	1.5	1.5	2	2	2	
		--	FG	--	1	1	--	1.5	1.5	2	2	2	
		--	--	UR	--	--	6	1.5	1.5	2	2	2	
D	DUCTWORK	FG (d) R-6	--	--	2	--	--	--		--	--	--	1.5(g)
		--	FG (e) R-6	--	2	2	--	--		--	--	--	2 (f)(g)
		--	--	UR(e) R-12	--	--	3	--		--	--	--	2 (i)

(a) FG -- FIBROUS GLASS
FE -- FLEXIBLE ELASTOMERIC
UR -- URETHANE
CS -- CALCIUM SILICATE
FR -- FIRE RATED

(b) 0 -- NONE
2 -- ALUMINUM FOIL
4 -- POLYVINYL CHLORIDE
6 -- ALUMINUM
1 -- ALL SERVICE
3 -- CANVAS
5 -- STAINLESS STEEL
7 -- EPDM

(c) SUPPLY AIR
OUTSIDE AIR
MIXED AIR
RETURN AIR

(e) RIGID BOARD
(d) BLANKET

(f) EXCEPT SUPPLY AIR WITHIN CONDITIONED SPACE
(g) INSULATE EXHAUST AIR 15'-0" FROM EXTERIOR PENETRATION
(i) TWO LAYERS, 3 IN TOTAL

ALL INSULATION TO COMPLY WITH 2020 NYS ENERGY CONSERVATION CONSTRUCTION CODE

REGISTER, GRILLE AND DIFFUSER SCHEDULE

TYPE	APPLICATION	MATERIAL	FINISH	DESIGN EQUIPMENT	NOTES
SD-1	SUPPLY	STEEL	WHITE	TITUS MODEL TMS	3
SD-2	SUPPLY	STEEL	WHITE	TITUS MODEL US-DL-SV	3
SD-3	SUPPLY	STEEL	WHITE	TITUS MODEL R-OMNI	3
EG-1	EXHAUST	STEEL	WHITE	TITUS 350ZL	1,2,3
RG-1	RETURN	STEEL	WHITE	TITUS MODEL 350-ZRL	3,4

NOTE 1: PROVIDE APPROPRIATE SIZED NECK TO CONNECT TO NEW OR EXISTING DUCT. SEAL AND MAKE CONNECTIONS AIR TIGHT.
NOTE 2: PROVIDE GRILLE TO FIT IN A FULL CEILING TILE IN DROP CEILING.
NOTE 3: PROVIDE VOLUME DAMPERS FOR AIR BALANCING.
NOTE 4: PROVIDE BUILT-IN OPPOSED BLADE DAMPER.

PUMP SCHEDULE

(P)

UNIT NO.	SERVICE	LOCATION	GPM	TOTAL HEAD (FT)	SIZE	MOTOR HP	MOTOR RPM	MOTOR V/PH/HZ	MOTOR FLA	MANUFACTURER & MODEL	NOTES
P-3	HEATING ROOFTOP	MECH. ROOM	26	50	1.5	1.5	1700	208/3/60	7.8	ARMSTRONG INLINE SERIES 4380	1
P-4	HEATING ROOFTOP	MECH. ROOM	26	50	1.5	1.5	1700	208/3/60	7.8	ARMSTRONG INLINE SERIES 4380	1

NOTE:
1. PROVIDE WITH OPTIONS FROM MFR: INTEGRAL VFD W/ENCLOSURE, DISCONNECT, CONTROLS, BACNET COMPATIBLE. VFD AND DISCONNECT TO BE WIRED BY EC WHEN APPLICABLE.

COORDINATION NOTE:

1. COORDINATION- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL AND MECHANICAL CONTRACTORS TO COORDINATE THEIR WORK.
THE HVAC CONTRACTOR SHALL TAKE THE LEAD IN THE COORDINATION EFFORT AND PRODUCE THE COORDINATION DRAWINGS. COORDINATION DRAWINGS SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO STARTING ANY WORK. CEILING SPACE IS VERY LIMITED AND DUCTWORK/PIPING INSTALLATION AND LOCATION IS CRITIAL. THE PURPOSE OF THESE DRAWINGS IS TO COORDINATE THE LOCATIONS OF ALL PIPING, DUCTWORK, AND ASSOCIATED ELECTRICAL EQUIPMENT. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED AND LOCATED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC). MECHANICAL EQUIPMENT CANNOT INFILTRATE THE ELECTRICAL EQUIPMENTS WORKING CLEARANCE AND WORKING SPACE, NOR CAN IT BE INSTALLED DIRECTLY ABOVE OR BELOW TO THE STRUCTURE, AS IDENTIFIED WITHIN THE NEC, ARTICLE 110 - "REQUIREMENTS FOR ELECTRICAL INSTALLATION". THIS COORDINATION IS REQUIRED FOR ALL PHASES OF THIS PROJECT. FAILURE TO FOLLOW THIS PROCEDURE DOES NOT RELIEVE THE CONTRACTOR FROM THE DUTIES AND WILL NOT CONSTITUTE A REASON FOR A CHANGE ORDER.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER TO ALTER ANY ITEM ON THIS PLAN IN ANY WAY. IF ANY ITEM BEARING THE SEAL OF AN ARCHITECT OR ENGINEER IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO SUCH ITEM HIS OR HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS OR HER SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. THE SIGNATURE AND SEAL ARE NOT TO BE AFFIXED TO ANY DOCUMENT ALONG WITH A DESCRIPTION OF THE ALTERATION. COPYRIGHT © 2019

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YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JJE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
SCHEDULES

SHEET NO.
M-500

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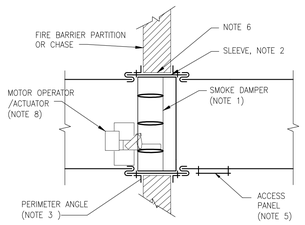
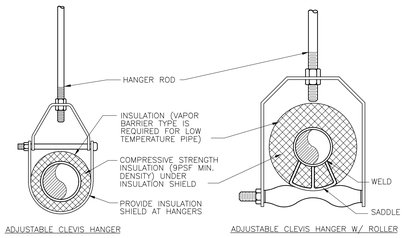


NOTES:

1. A VERTICAL FIRE/SMOKE DAMPER IS SHOWN. HORIZONTAL FIRE/SMOKE DAMPER INSTALLATION, IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION.
2. GALVANIZED SLEEVE: REFER TO SMACNA, NFPA 90A ADN MANUFACTURER'S RECOMMENDATIONS FOR SLEEVE GAUGES.
3. PERIMETER ANGELS: GALVANIZED STEEL, NOT LESS THAN 1 1/2"x1 1/2", 16 GAGE, TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES.
4. BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA.
5. ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.
6. PROVIDE 1/4" TO 1/2" CLEARANCE ON HEIGHT AND WIDTH. FILL OPEN SPACE WITH ROCK WOOL FIRESTOP FIBER.
7. ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND MECHANICAL ROOM FLOORS, SHALL BE PROVIDED WITH 3" HIGH CONCRETE CURB AROUND OPENING FOR DUCT.
8. FACTORY PROVIDED DAMPER MOTOR OPERATOR/ACTUATOR. MOUNT OUTSIDE CLEAR OF WALL AND DUCT INSTALLATION

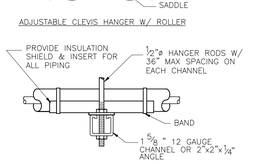
11 COMBINATION SMOKE FIRE DAMPER DETAIL
SCALE: NONE



ADJUSTABLE CLEVIS HANGER — ADJUSTABLE CLEVIS HANGER W/ ROLLER

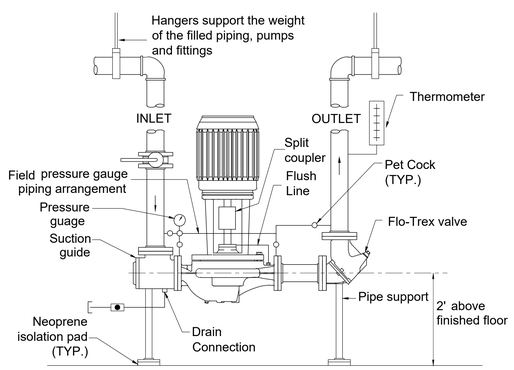
MAXIMUM PIPE/TUBING SUPPORT SPACING								
SIZE IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
PIPE FT.	6	6	6	6	6	6	6	6
TUBING FT.	6	6	6	6	6	6	6	6

NOTE:
1. FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

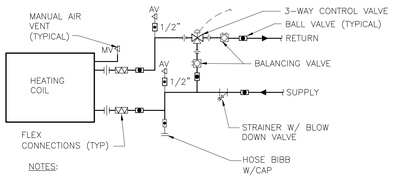


SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

12 PIPE SUPPORT DETAIL
SCALE: NONE



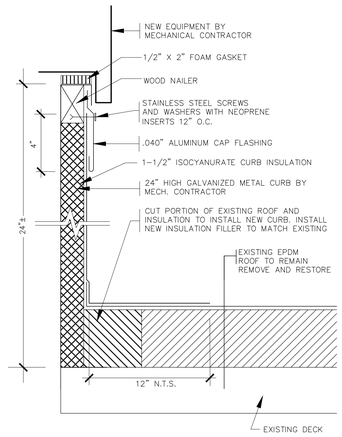
13 IN-LINE PUMP DETAIL
SCALE: NONE



NOTES:

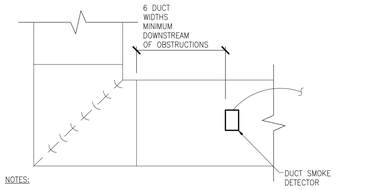
1. SUPPORT PIPES FROM STRUCTURE OR FLOOR STANCHEON AS APPLICABLE.
2. COILS MOUNTED IN DUCTS TO BE PROVIDE WITH ACCESS PANELS UPSTREAM OF THE COIL.
3. PIPE COIL TO ALLOW REMOVAL OF COIL WITHOUT REMOVING PIPING BEYOND UNIONS OR FLANGES.
4. FOR UNITS PROVIDED WITH OTHER THAN ONE COIL, PROVIDE FLOW BALANCER, FLANGES, FLEXIBLE CONNECTOR, DRAINS, AND AIR VENTS FOR EACH COIL.

7 COIL PIPING 3 WAY VALVE DETAIL
SCALE: NONE



NOTE:
ALL WORK ON THE EXISTING ROOF MUST BE PERFORMED BY AN AUTHORIZED APPLICATOR TO MAINTAIN THE EXISTING WARRANTY.

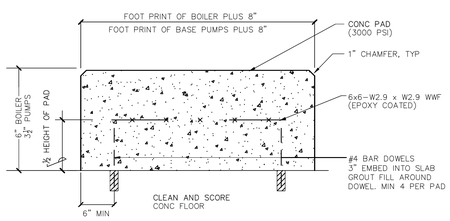
8 TYPICAL HVAC CURB (EXISTING EPDM ROOF)
SCALE: NONE



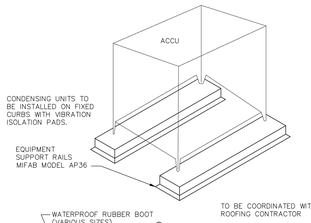
NOTES:

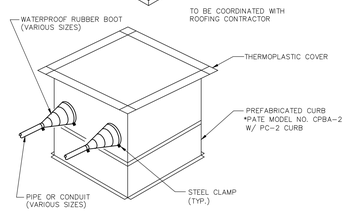
1. DETECTORS SHALL BE FURNISHED/WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR.

9 DUCTWORK SMOKE DETECTOR INSTALLATION
SCALE: NONE

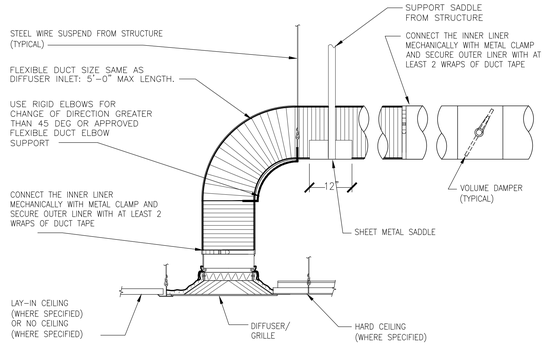


10 CONCRETE PAD DETAIL
SCALE: NONE

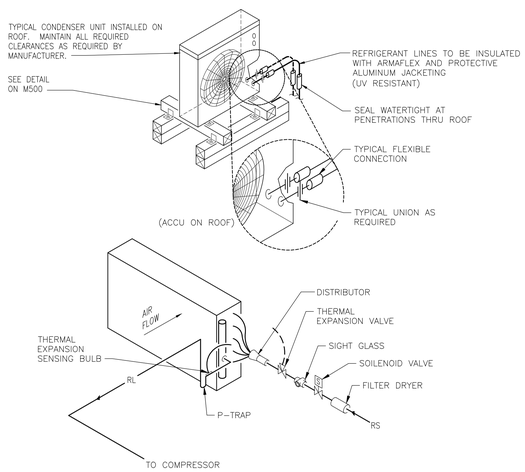




4 PIPE/CONDUIT CURB ASSEMBLY DETAILS
SCALE: NONE



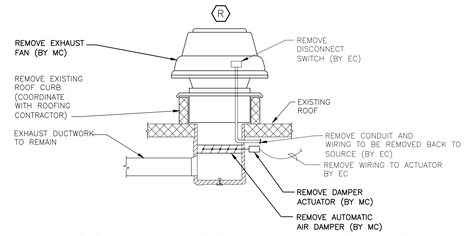
5 FLEXIBLE AIR DUCT CONNECTOR
SCALE: NONE



NOTES:

1. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE ENCLOSURES AS REQUIRED TO CONCEAL REFRIGERANT LINES.
3. INSTALL ACCU'S ON ROOF AS CLOSE TO THEIR RESPECTIVE UNIT AS POSSIBLE. ROOF PLAN SHOWS APPROXIMATE LOCATIONS OF ACCU'S. ACCU'S TO BE LOCATED ABOVE BEARING WALL BELOW.

6 PIPING CONNECTIONS AT DIRECT EXPANSION COOLING COIL
SCALE: NONE

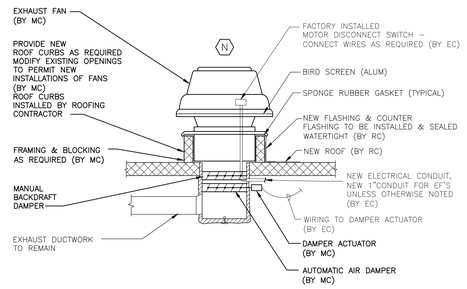


1 ROOF EXHAUST FAN - REMOVALS
SCALE: NONE

REMOVAL NOTES:

MC SHALL –

A. REMOVE EXHAUST FAN UNIT AND AUTOMATIC AIR DAMPER IN ENTIRETY AND PREPARE FOR NEW.
B. MAKE ALL ROOF OPENINGS TEMPORARILY WEATHER TIGHT TO PREVENT WATER INFILTRATION.



2 ROOF EXHAUST FAN - NEW WORK
SCALE: NONE

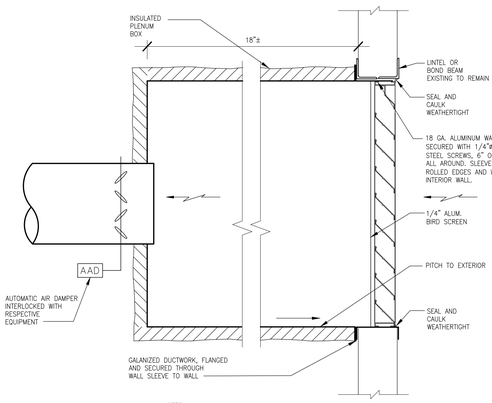
NEW WORK NOTES:

MC SHALL –

A. MODIFY EXISTING DUCTWORK AS REQUIRED.
B. PROVIDE NEW AUTOMATIC AIR DAMPER AND INSTALL TIGHT TO ROOF OPENING AS POSSIBLE.
C. PROVIDE AND INSTALL NEW ROOF EXHAUST FANS. SEE SHEET M500 FOR EXHAUST FAN SCHEDULE.
D. SECURE EXHAUST FAN TO CURB WITH STAINLESS STEEL FASTENERS WITH NEOPRENE WASHERS 8" ON CENTER AROUND PERIMETER.

LEGEND
(APPLIES ONLY TO M501 AND M103)

- (R) REMOVE EXHAUST FAN (BY MC) SEE DETAILS 1 & 2 FOR ADDITIONAL INFORMATION
- (N) PROVIDE NEW EF- (BY MC). SEE DETAILS 1 & 2 FOR ADDITIONAL INFORMATION
- (A) ROOF AREA DESIGNATION
- E — ELECTRICAL CONDUIT
- (#) KEYED NOTES
- (EC) ELECTRICAL CONTRACTOR
- (MC) MECHANICAL CONTRACTOR
- (RC) ROOFING CONTRACTOR
- (CC) CONTROLS CONTRACTOR



NOTES:

1. ALL HARDWARE SHALL BE CORROSION RESISTANT AND HAVE FINISH TO MATCH ADJACENT SURFACE WHERE EXPOSED TO VIEW.
2. PROVIDE RUSKIN ELF3750XH LOUVER, OR APPROVED EQUAL

3 LOUVER DETAIL
SCALE: NONE

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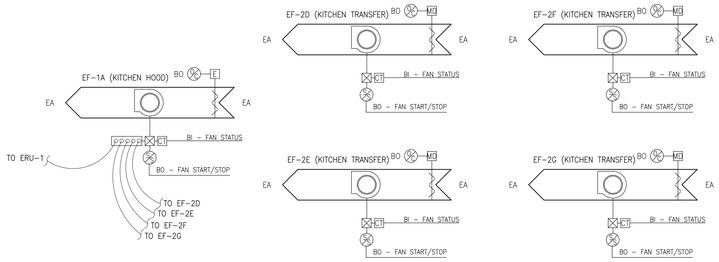
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
DETAILS

SHEET NO.
M-501

FILE PATH –N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.Interior\y19mlk01.m500.dwg



SEQUENCE OF OPERATION

EXHAUST FANS LISTED IN THIS SECTION SHALL BE AN EXCEPTION TO THE "TYPICAL EXHASUT FAN CONTROL SCHEMATIC" AND SHALL ONLY RUN AS INDICATED BELOW.

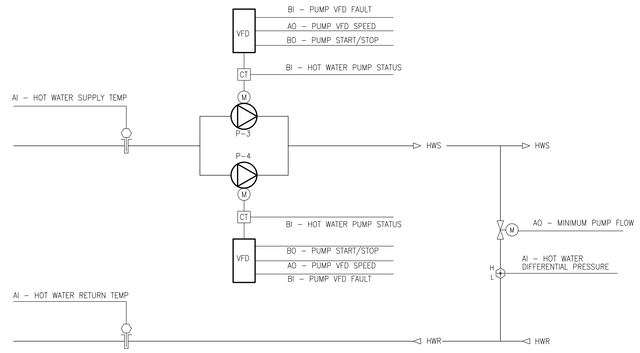
EF–1A RELAY OPERATION

EF–1A TO REUSE EXISTING ACTIVATION MEANS (SWITCH)
PROVIDE RELAYS AND CONTROLS TO ADD THE FOLLOWING OPERATION TO BMS:

WHENEVER EF–1A IS TURNED ON:
- ERU–1 TO DISCONTINUE DCV MONITORING. ERU–1 MOTORIZED DAMPERS TO MODULATE TO SET MINIMUM OA POINT TO MATCH CFM SETPOINT OF EF–1A (SCHEDULED @ 6000 CFM).
- REMOTE ERU–1 MOTORIZED DAMPER (STORAGE 225) TO MODULATE TO REDUCE MAX RETURN AIRFLOW TO 4000 CFM.
- MOTORIZED DAMPERS FOR EF–2D, EF–2E, EF–2F AND EF–2G TO FULLY OPEN.
- EF–2D, EF–2E, EF–2F AND EF–2G TO RUN @ SCHEDULED CFM.

WHENEVER EF–1A IS TURNED OFF:
- ERU–1 MOTORIZED DAMPERS TO MODULATE TO SET MINIMUM OA POINT TO SCHEDULED CFM ON DWG M–500. ERU–1 TO RETURN TO DCV MONITORING.
- REMOTE ERU–1 MOTORIZED DAMPER (STORAGE 225) TO MODULATE TO FULLY OPEN.
- MOTORIZED DAMPERS FOR EF–2D, EF–2E, EF–2F AND EF–2G TO FULLY CLOSE.
- EF–2D, EF–2E, EF–2F AND EF–2G TO TURN OFF.

3 KITCHEN EXHAUST FAN CONTROL SCHEMATIC
SCALE: NONE



SEQUENCE OF OPERATION

SECONDARY HOT WATER LOOP RUN CONDITIONS:
THE SECONDARY HOT WATER PUMPS SHALL BE ENABLED WHENEVER OUTSIDE AIR TEMPERATURE IS LESS THAN 65 °F (ADJ.), AND BOILER(S) ARE IN RUN COMMAND.

THE PUMPS SHALL RUN FOR FREEZE PROTECTION ANYTIME OUTSIDE AIR TEMPERATURE IS LESS THAN 38 °F (ADJ.).

TO PREVENT SHORT CYCLING, THE PUMP SHALL RUN FOR A MINIMUM TIME AND BE OFF FOR A MINIMUM TIME (BOTH USER ADJUSTABLE).

HOT WATER PUMP OPERATION:
THE TWO VARIABLE SPEED HOT WATER PUMPS SHALL OPERATE IN A LEAD FASHION. (STANDBY PUMP ONLY RUNS WITH THE FIRST FAIL) THE LEAD PUMPS SHALL RUN FIRST. ON FAILURE OF THE LEAD PUMP, THE STANDBY PUMP SHALL RUN AND THE LEAD PUMP SHALL TURN OFF.

THE DESIGNATED LEAD PUMP SHALL ROTATE UPON ONE OF THE FOLLOWING CONDITIONS (USER SELECTABLE):
MANUALLY THROUGH A SOFTWARE SWITCH
IF PUMP RUNTIME (ADJ.) IS EXCEEDED
DAILY
WEEKLY
MONTHLY

VARIABLE SPEED DRIVE OPERATION:
THE VARIABLE SPEED DRIVE MODULATES PUMP SPEED TO MAINTAIN SYSTEM DIFFERENTIAL PRESSURE SETPOINT.

THE INITIAL PRESSURE SETPOINT SHALL BE 12 PSI. THE ACTUAL PRESSURE SETPOINT SHALL BE FIELD ADJUSTED DURING BALANCING TO MEET REQUIREMENTS OF THE ACTUAL FIELD CONDITIONS.

THE VFD SHALL NOT MODULATE BELOW 20% OR THE MINIMUM FLOWRATE REQUIRED BY THE PUMP MANUFACTURER.

IF THE SYSTEM DIFFERENTIAL PRESSURE IS BELOW SETPOINT AND THE LEAD PUMP IS AT 100% SPEED FOR A TIME INTERVAL OF 15 MINUTES, THE STANDBY PUMP STARTS. WITH BOTH PUMPS ON, THE ADJUSTABLE SPEED DRIVES ARE MODULATED IN UNISON TO MAINTAIN SYSTEM DIFFERENTIAL PRESSURE.

IF THE SYSTEM DIFFERENTIAL PRESSURE IS AT SETPOINT AND BOTH PUMPS ARE ON AND AT 45% SPEED FOR A TIME INTERVAL OF 15 MINUTES THE STANDBY PUMP IS STOPPED.

CURRENT SWITCHES WILL CONFIRM IF THE LEAD PUMP IS STOPPED.

CURRENT SWITCHES WILL CONFIRM THAT THE LEAD PUMP IS IN THE DESIRED STATE (I.E. ON OR OFF) AND GENERATE AN ALARM IF STATUS DEVIATES FROM DDC START/STOP CONTROL.

IF THE LEAD PUMP GOES INTO ALARM, THE STANDBY PUMP STARTS.

THE DDC SYSTEM SHALL MONITOR THE PUMP SPEED AND IF PUMP SPEED FALLS BELOW 20% (ADJ.) FOR 5 MINS (ADJ.) THE VALVE IN THE DIFFERENTIAL PRESSURE BRIDGE SHALL MODULATE OPEN TO MAINTAIN PUMP SPEED A 20%. UPON AN INCREASE IN PUMP SPEED ABOVE 25% (ADJ.) FOR 5 MINS. (ADJ) THE VALVE SHALL MODULATE FULLY CLOSED.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

HOT WATER PUMPS P–3 AND P–4
FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
RUNNING IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT.

SECONDARY HOT WATER SUPPLY TEMPERATURE SETPOINT:

THE SECONDARY HOT WATER SUPPLY TEMPERATURE SETPOINT SHALL RESET USING A TRIM AND RESPOND ALGORITHM BASED ON HEATING REQUIREMENTS.

AS THE FACILITY'S HOT WATER VALVES OPEN BEYOND A USER DEFINABLE THRESHOLD (90% OPEN, TYP.), THE SETPOINT SHALL RESET TO A HIGHER VALUE (ADJ.). ONCE THE HOT WATER COILS ARE SATISFIED (VALVES CLOSING) THEN THE SETPOINT SHALL GRADUALLY LOWER OVER TIME TO REDUCE HEATING ENERGY USE.

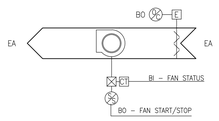
ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH SECONDARY HOT WATER SUPPLY TEMP: IF GREATER THAN 200 DEG.F (ADJ.).
LOW SECONDARY HOT WATER SUPPLY TEMP: IF LESS THAN 100 DEG.F (ADJ.).

PRIMARY HOT WATER TEMPERATURE MONITORING:

PRIMARY HOT WATER SUPPLY AND RETURN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH PRIMARY HOT WATER SUPPLY TEMP: IF GREATER THAN 200 DEG.F (ADJ.).
LOW PRIMARY HOT WATER SUPPLY TEMP: IF LESS THAN 100 DEG.F (ADJ.).

4 DUPLEX WATER PUMP CONTROL SCHEMATIC
SCALE: NONE



SEQUENCE OF OPERATION

EXHAUST FAN (TYPICAL):

THE EXHAUST FAN SHALL RUN CONTINUOUSLY IN OCCUPIED MODE. IN UNOCCUPIED MODE, FAN SHALL BE OFF. WHEN THE FAN IS DEENERGIZED, THE DAMPER SHALL BE CLOSED. IF THE FAN STATUS IS NOT EQUAL TO COMMAND, AN ALARM SHALL BE RECORDED AT THE CONTROL SYSTEM SERVER.

2 TYPICAL EXHAUST FAN CONTROL SCHEMATIC
SCALE: NONE

WINDOW AIR CONDITIONER W/ REMOTE WALL THERMOSTAT (TYPICAL):

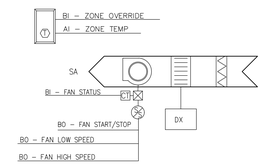
THE UNIT SHALL BE ALLOWED TO ACTIVATE COOLING MODE ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
  - o A 72°F (ADJ.) COOLING SETPOINT
- UNOCCUPIED MODE (NIGHT SETBACK):
  - o OFF

MORNING START–UP/ START OCCUPIED MODE:
WHERE MULTIPLE WINDOW AIR CONDITIONERS ARE CONNECTED TO THE SAME POWER SOURCE, CONTROLS SHALL STAGGER MORNING START–UP TIMES TO AVOID SIMULTANEOUS OR EXTENDED HIGH POWER DRAW.

COOLING MODE:
ONCE THE ROOM TEMPERATURE RISES PAST THE COOL DEMAND THRESHOLD (COOL SET POINT + 1.5 °F), AND THE COMPRESSOR IS NOT LOCKED OUT, THE COOLING CYCLE BEGINS. THE FAN IS STARTED 5 SECONDS PRIOR TO THE COMPRESSOR. ONCE THE ROOM TEMPERATURE HAS BEEN LOWERED TO THE COOLING SETPOINT (COOL SET POINT MINUS .25 °F), THE COOLING CYCLE STARTS TO TERMINATE BY SHUTTING OFF THE COMPRESSOR. AFTER A 30 SECONDS DELAY, THE FAN IS SHUT OFF.
COOLING SETPOINT: 75°F (ADJ.)

COMPRESSOR LOCKOUT:
MANDATORY COMPRESSOR DOWNTIME OF MINIMUM 180 SECONDS SHALL INITIATE PRIOR TO THE FOLLOWING EVENTS:
(1) SATISFYING THE TEMPERATURE SET POINT
(2) CHANGING MODE TO FAN ONLY
(3) TURNING THE UNIT OFF
(4) CONTROL IS FIRST PLUGGED IN OR POWER IS RESTORED AFTER FAILURE

COOL/FAN MODES AND FAN SPEED OPERATIONS ARE CONTROLLED BY THE REMOTE WALL THERMOSTAT. THE UNIT'S BUILT–IN INDOOR AMBIENT TEMPERATURE SENSOR IS DISABLED. THE FAN SPEEDS CAN BE LOW OR MAX FOR 4 SPEED UNITS AND LOW OR HIGH FOR 3 SPEED UNITS.



SEQUENCE OF OPERATION

1 WINDOW AIR CONDITIONER OPERATION
SCALE: NONE

CONTROL DIAGRAMS LEGEND

AI = ANALOG INPUT. A PHYSICAL INPUT TO THE CONTROL MODULE.

AO = ANALOG OUTPUT. A PHYSICAL OUTPUT FROM THE CONTROL MODULE.

AV = ANALOG VALUE. AN INTERMEDIATE (SOFTWARE) POINT THAT MAY BE EDITABLE OR READ–ONLY. EDITABLE AVS ARE TYPICALLY USED TO ALLOW THE USER TO SET A FIXED CONTROL PARAMETER, SUCH AS A SETPOINT. READ ONLY AVS ARE TYPICALLY USED TO DISPLAY THE STATUS OF A CONTROL OPERATION.

BI = BINARY INPUT. A PHYSICAL INPUT TO THE CONTROL MODULE.

BO = BINARY OUTPUT. A PHYSICAL OUTPUT FROM THE CONTROL MODULE.

BV = BINARY VALUE. AN INTERMEDIATE (SOFTWARE) POINT THAT MAY BE EDITABLE OR READ–ONLY. EDITABLE BVS ARE TYPICALLY USED TO ALLOW THE USER TO SET A FIXED CONTROL PARAMETER, SUCH AS A SETPOINT. READ ONLY BVS ARE TYPICALLY USED TO DISPLAY THE STATUS OF A CONTROL OPERATION.

CONTROL WORK SCOPE NOTE:

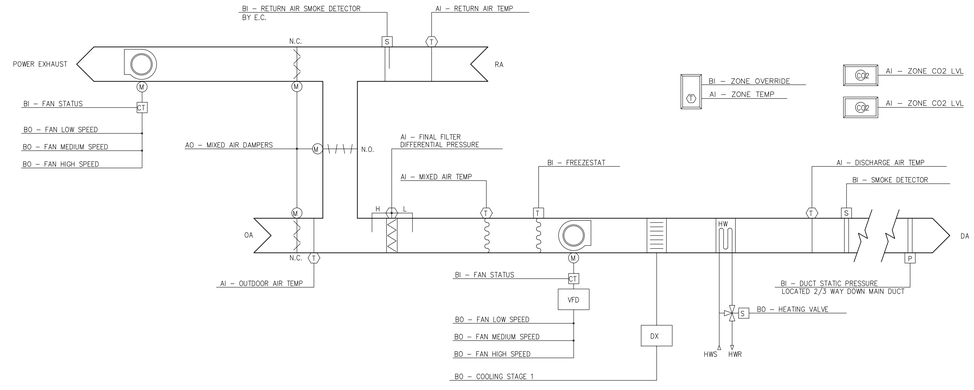
CONTROLS CONTRACTOR RESPONSIBLE TO PROVIDE COMPLETE AND FUNCTIONING SYSTEM.

PROVIDE ALL ELECTRICAL COMPONENTS, CONTROL PANELS, WIRING, AND RIGID METAL CONDUIT FOR INSTALLATION OF ALL CONTROLS. PROVIDE LINE VOLTAGE FROM POWER PANELS TO CONTROLS AND CONTROL PANELS WHEN NECESSARY. VERIFY CONTROL EQUIPMENT VOLTAGES AND PROVIDE LOW VOLTAGE TRANSFORMERS AS REQUIRED. PROVIDE ALL BMS INTEGRATIONS.

PROVIDE REMOVALS OF CONTROLS ON EQUIPMENT MARKED ON THE DRAWINGS FOR REMOVAL. PROVIDE ALTERATIONS TO EXISTING CONTROLS WHERE REQUIRED. UPDATE BMS SOFTWARE TO ADD, REMOVE, ALTER AND RENAME EQUIPMENT AND EQUIPMENT PROFILES TO MATCH NEW SYSTEMS.

FIRE ALARM EQUIPMENT, FAN SHUTDOWN INTEGRATIONS, AND GENERAL POWER WIRING IS BY ELECTRICAL CONTRACTOR.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THIS DRAWING IN ANY WAY. IF ANY ALTERATIONS ARE MADE, THE ENGINEER SHALL AFFIXED TO ANY DRAWING ALTERED, ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND SEAL. COPYRIGHT © 2019



ROOF TOP UNIT W/ DX COOLING – RTU
RUN CONDITIONS – SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
  - o A 75°F (ADJ.) COOLING SETPOINT
  - o A 70°F (ADJ.) HEATING SETPOINT.
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
  - o A 85°F (ADJ.) COOLING SETPOINT.
  - o A 55°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

DISCHARGE AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.
ALARMS AND UNIT SHUTDOWN SHALL OCCUR WITH DETECTION OF:
HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).
COIL AND UNIT PROTECTION MEASURES TO REMAIN IN EFFECT.

TEMPERATURE PROTECTION
- ACTIVATED WHEN THE SUPPLY AIR TEMPERATURE (SAT) RISES ABOVE THE HIGH CUTOFF TEMPERATURE (IMMEDIATE) OR DROPS BELOW THE LOW CUTOFF TEMPERATURE (FOR 10 MINUTES) BOTH OF WHICH ARE USER ADJUSTABLE. THIS MODE SHUTS OFF THE UNIT (WITH A 3 MINUTE FAN OFF DELAY) UNTIL THE MODE IS CANCELLED.
- THIS MODE IS CANCELLED WHEN THE SAT DROPS 10 DEGREES BELOW THE HIGH CUTOFF TEMPERATURE SETPOINT OR RISES 10 DEGREES ABOVE THE LOW TEMP CUTOFF TEMPERATURE SETPOINT, OR WHEN THE UNIT CHANGES BACK INTO OCCUPIED OPERATION.

OCCUPIED MODE INITIATION
BACNET COMMAND

SCHEDULING
- INTERNAL 7 DAYS SCHEDULE WITH 2 START/STOP EVENTS PER DAY (ADJ.).
- SCHEDULING OF UP TO 14 HOLIDAY PERIODS PER YEAR (ADJ.).

DAYLIGHT SAVINGS TIME CONFIGURATION.

ZONE OPTIMAL START:
THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START–UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM–UP OR COOL–DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.
SMOKE DETECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SMOKE DETECTOR STATUS.

FAN:
THE FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES.

COOLING STAGE (ERU–1 & RTU–3 ONLY):
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THE STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.
THE COOLING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- AND THE ZONE TEMPERATURE IS ABOVE COOLING SETPOINT.
- AND THE FAN IS ON.

HEATING COIL VALVE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND OPEN THE HEATING COIL VALVE TO MAINTAIN ITS HEATING SETPOINT.
THE HEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT.
- AND THE FAN IS ON.

THE HEATING COIL VALVE SHALL OPEN WHENEVER THE FREEZESTAT IS ON.
HEATING – HIGH DISCHARGE AIR TEMPERATURE LIMIT:
THE CONTROLLER SHALL MEASURE THE DISCHARGE AIR TEMPERATURE AND, ON RISING TEMPERATURE, LIMIT THE HEATING AS FOLLOWS:
- AS THE DISCHARGE AIR TEMPERATURE RISES FROM 90°F TO 120°F (ADJ.),
- THE CONTROLLER SHALL LIMIT THE HEATING OUTPUT FROM 100% TO 0% (ADJ.).

HOT WATER VALVE AND COIL PROTECTION
- SUPPLY FAN ON:

IF THE SUPPLY AIR TEMPERATURE (SAT) FALLS BELOW THE LOW SAT CUTOFF SETPOINT FOR 1 MINUTE, THE HOT WATER VALVE WILL MOVE TO A USER–ADJUSTABLE HOT WATER VALVE PROTECTION POSITION SETPOINT
IF THE SAT RISES BACK ABOVE THE LOW SAT CUTOFF BY 5°F, THE VALVE WILL RETURN TO ITS NORMAL POSITION
IF THE SAT REMAINS BELOW THE LOW SAT CUTOFF FOR 10 MINUTES, THE UNIT WILL SHUT DOWN AND A LOW SAT CUTOFF ALARM WILL BE GENERATED
IF THE SAT RISES BACK ABOVE THE LOW SAT CUTOFF BY 5°F THE ALARM WILL CLEAR AND THE UNIT WILL ATTEMPT TO RESTART AND RESUME NORMAL OPERATION
- SUPPLY FAN OFF:

IF THE OUTDOOR AIR TEMPERATURE (OAT) FALLS BELOW A USER–ADJUSTABLE LOW AMBIENT SETPOINT, THE HOT WATER VALVE WILL MOVE TO A USER–ADJUSTABLE HOT WATER VALVE PROTECTION POSITION SETPOINT.
IF THE OAT RISES ABOVE THE LOW AMBIENT SETPOINT, THE VALVE WILL RETURN TO ITS NORMAL POSITION.
IF THIS PROTECTION SEQUENCE IS NOT UTILIZED, THE HOT WATER VALVE IS CLOSED WHEN NOT BEING USED FOR HEATING.

OUTSIDE AIR DAMPERS:
THE OUTSIDE AIR DAMPER SHALL OPEN TO PROVIDE A FIXED PERCENTAGE OUTSIDE AIR VENTILATION ANYTIME THE UNIT IS OCCUPIED AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE DAMPER OPEN POSITION SHALL BE SET DURING TESTING AND BALANCING. THE MIXED AIR DAMPERS SHALL CLOSE 1 SEC (ADJ.) AFTER THE FAN STOPS.
IF OPTIMAL START UP IS AVAILABLE THE OUTSIDE AIR DAMPER SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN.
MINIMUM OUTSIDE AIR VENTILATION – THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM POSITION (ADJ.) DURING BUILDING OCCUPIED HOURS AND BE CLOSED DURING UNOCCUPIED HOURS.
THE OUTSIDE AIR DAMPERS SHALL CLOSE WHEN THE FREEZESTAT IS ACTIVATED.

FILTER HOURS:
THE CONTROLLER SHALL MONITOR THE FAN RUNTIME.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
CHANGE REQUIRED: FILTER HAS BEEN IN USE FOR MORE THAN 2200 HRS

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

ENVIRONMENTAL INDEX:
WHEN THE ZONE IS OCCUPIED, THE CONTROLLER WILL MONITOR THE DEVIATION OF THE ZONE TEMPERATURE FROM
THE HEATING OR COOLING SETPOINT AND CALCULATE A 0 – 100% ENVIRONMENTAL INDEX WHICH GIVES AN
INDICATION OF HOW WELL THE ZONE IS MAINTAINING COMFORT.
PERCENTAGE OF TIME SINCE OCCUPANCY BEGAN THAT THE ENVIRONMENTAL INDEX WAS 70% OR HIGHER.

VENTILATION MODE
- THIS MODE IS GENERATED ANYTIME THERE IS NO DEMAND FOR HEATING OR COOLING. THE FAN WILL OPERATE AT THE MINIMUM VENT SPEED (USER ADJ).

ECONOMIZER OPERATION
- ENABLED WHEN OUTDOOR AIR (OA) DRYBULB, WETBULB, OR DEWPOINT TEMPERATURE FALLS BELOW THE ECONOMIZER ENABLE SETPOINT BY 1° AND THE OA TEMPERATURE IS AT LEAST 5° BELOW THE RETURN AIR TEMPERATURE (IF A RETURN AIR TEMPERATURE SENSOR IS BEING USED).
- ECONOMIZER OPERATION IS DISABLED WHEN THE OA TEMPERATURE RISES 1° ABOVE THE ECONOMIZER ENABLE SETPOINT OR IF THE OA TEMPERATURE RISES 1° ABOVE THE RETURN AIR TEMPERATURE (IF AVAILABLE).
- WETBULB OR DEWPOINT OPERATION REQUIRES AN OUTDOOR HUMIDITY SENSOR.
- ECONOMIZER ACTS AS FIRST STAGE OF COOLING AND CONTROLS TO THE ACTIVE SUPPLY AIR COOLING SETPOINT. IF THE ECONOMIZER REACHES 100% AND THE SUPPLY AIR TEMPERATURE IS STILL ABOVE SETPOINT, MECHANICAL COOLING IS ALLOWED TO STAGE UP WHILE THE ECONOMIZER IS HELD AT THE FULL OPEN POSITION.
- AN ECONOMIZER MINIMUM POSITION SHALL BE CONFIGURED IN THE CONTROLLER.
- ECONOMIZER DAMPER IS CLOSED DURING UNOCCUPIED MODE, EXCEPT WHEN UNOCCUPIED FREE COOLING IS USED DURING NIGHT SETBACK OPERATION.
- UNIT CONTROLS SHALL HAVE THE MECHANICAL COOLING CAPACITY CONTROL INTERLOCKED WITH THE AIR ECONOMIZER CONTROLS SUCH THAT THE OUTDOOR AIR DAMPER IS AT THE 100–PERCENT OPEN POSITION WHEN MECHANICAL COOLING IS ON AND THE OUTDOOR AIR DAMPER DOES NOT BEGIN TO CLOSE TO PREVENT COIL FREEZING DUE TO MINIMUM COMPRESSOR RUN TIME UNTIL THE LEAVING AIR TEMPERATURE IS LESS THAN 45°F (7°C).
- DIRECT EXPANSION (DX) UNITS THAT CONTROL 75,000 BTU/H (22 KW) OR GREATER OF RATED CAPACITY OF THE CAPACITY OF THE MECHANICAL COOLING DIRECTLY BASED ON OCCUPIED SPACE TEMPERATURE SHALL HAVE NOT FEWER THAN TWO STAGES OF MECHANICAL COOLING CAPACITY. FOR MODULATING AIRFLOW UNITS: FOR MORE THAN OR EQUAL TO 65,000 BTU/H BUT LESS THAN 240,000 BTU/H, MIN COOLING STAGES IS 3 AND MIN DISPLACEMENT OF COMPRESSOR IS 35%, AND FOR MORE THAN 240,000 BTU/H, MIN COOLING STAGES IS 4 AND MIN DISPLACEMENT OF COMPRESSOR IS 25%

ALARM DETECTION AND REPORTING
- UNIT TO CONTINUOUSLY PERFORM SELF–DIAGNOSTICS DURING NORMAL OPERATIONS TO DETERMINE IF ANY OPERATING FAILURES HAVE OCCURRED.

THESE FAILURES (ALARMS) WILL BE SHOWN ON THE CONTROLLER'S DISPLAY AND SHALL BE RELAYED TO THE BACNET CONTROL CENTER.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).
- ANY SENSOR FAILURE
- ECONOMIZER OFF WHEN CALLED ON
- ECONOMIZER ON WHEN CALLED OFF
- DAMPERS NOT MODULATING WHEN CALLED
- EXCESS OUTDOOR AIR
- HIGH/LOW DISCHARGE TEMPERATURE DETECTED
- UNIT PROTECTION SHUTDOWN INITIATED
- UNIT SHUTDOWN SMOKE DETECTED
- UNIT SHUTDOWN FIRE ALARM DETECTED
- COIL/UNIT PROTECTION INITIATED
- EMERGENCY SHUTDOWN

CONTROLLER SHALL BE CAPABLE OF MANUALLY INITIATING EACH OPERATING MODE SO THAT OPERATION OF COMPRESSORS, ECONOMIZERS, FANS, AND THE HEATING SYSTEM CAN BE INDEPENDENTLY TESTED AND VERIFIED.

NORMAL OPERATION SYSTEM STATUS INDICATIONS:
- FREE COOLING AVAILABLE
- ECONOMIZER ENABLED
- COMPRESSOR ENABLED
- HEATING ENABLED
- MIXED AIR LOW LIMIT CYCLE ACTIVE
- DEFROST MODE ENABLED (HEAT PUMPS)
- ECONOMIZER OFF OUTSIDE AIR HIGH/LOW LIMIT
- VALUES OF EACH INTEGRATED SENSOR

DIRECT CONTROL VENTILATION (DCV) FOR CARBON DIOXIDE (CO2) CONTROL OPERATION (ERU–1 ONLY)
- CO2 RESET OF THE ECONOMIZER MINIMUM POSITION CAN BE CONFIGURED AND CAN USE EITHER A SPACE OR A RETURN AIR CO2 SENSOR.
- A MINIMUM CO2 LEVEL SETPOINT AND A MAXIMUM CO2 LEVEL SETPOINT CAN BE CONFIGURED.
- IF THE CO2 LEVELS REMAIN BELOW THE MINIMUM CO2 LEVEL SETPOINT, THE ECONOMIZER MINIMUM POSITION WILL REMAIN AT ITS CONFIGURED VALUE.
- AS THE LEVEL OF CO2 INCREASES ABOVE THE MINIMUM CO2 LEVEL SETPOINT, THE ECONOMIZER MINIMUM POSITION WILL BEGIN TO BE RESET HIGHER. THE ECONOMIZER MINIMUM POSITION WILL BE PROPORTIONALLY HIGHER AS THE CO2 RISES WITHIN THE RANGE SET BY THE MINIMUM CO2 LEVEL SETPOINT AND THE MAXIMUM CO2 LEVEL SETPOINT.
- IF THE CO2 LEVEL REACHES THE MAXIMUM CO2 LEVEL SETPOINT, THE ECONOMIZER MINIMUM POSITION WILL BE RESET TO THE MAXIMUM ECONOMIZER POSITION DURING HIGH CO2 (OR THE MAXIMUM OA CFM POSITION DURING HIGH CO2 IF USING AIRFLOW CONTROL OF THE OUTDOOR AIR DAMPER).
- THE MAXIMUM ECONOMIZER POSITION DURING HIGH CO2 (OR THE MAXIMUM OA CFM POSITION DURING HIGH CO2) IS THE HIGHEST THE ECONOMIZER MINIMUM POSITION CAN BE RESET TO DURING CO2 CONTROL OPERATION. THIS SETPOINT IS USER–ADJUSTABLE AND DOES NOT KEEP THE ECONOMIZER FROM OPENING FURTHER DURING ECONOMIZER OPERATION.

LOW AMBIENT RELAY OPERATION
- AVAILABLE BY CONFIGURING A LOW AMBIENT SETPOINT AND CONFIGURING A LOW AMBIENT RELAY.
- WHENEVER THE OUTDOOR AIR TEMPERATURE FALLS BELOW THE LOW AMBIENT SETPOINT, THIS LOW AMBIENT RELAY WILL ENERGIZE.
- THIS OPERATION OCCURS IN BOTH THE OCCUPIED AND UNOCCUPIED MODES OF OPERATION.

EF–1A (KITCHEN HOOD) RELAY OPERATION (ERU–1 ONLY)
- WHENEVER EF–1A IS OFF, ERU–1 DAMPERS TO MODULATE TO SET MINIMUM OA POINT TO MATCH RTU SCHEDULE. ERU–1 TO BASE CFM BASED ON CO2 AND TEMPERATURE SETPOINTS.
- WHENEVER EF–1A IS ON, ERU–1 DAMPERS TO MODULATE TO SET MINIMUM OA POINT TO MATCH CFM SETPOINT OF EF–1A.

DUCT STATIC PRESSURE CONTROL (ERU–1 ONLY):
THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE BY READING THE SIGNAL GENERATED BY THE DUCT PRESSURE SENSOR AND MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A PRESSURE SETPOINT OF 0.05IN H2O (ADJ.).

5 ROOFTOP UNIT (HW HEATING AND DX COOLING) CONTROL SCHEMATIC AND SEQUENCING
SCALE: NONE

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YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
CONTROL SCHEMATICS

SHEET NO.
M-600

FILE PATH – N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.interior\Y19mlk01.mt600.dwg

SYMBOLS LIST

GENERAL SYMBOLS:

- (#) KEYED NOTE
- #Φ HEAVY LINE–WEIGHT INDICATES TO PROVIDE DEVICES/EQUIPMENT AS NEW
- HEAVY LINE–WEIGHT WITH HASH MARKS INDICATES DEVICES/EQUIPMENT TO BE REMOVED
- INDICATES CONNECTION TO EXISTING
- INDICATES POINT OF DISCONNECT
- #Φ (E) '(E)' NEXT TO LIGHT LINE–WEIGHT INDICATES EXISTING DEVICES/EQUIPMENT TO REMAIN
- #Φ (ER) '(ER)' NEXT TO LIGHT LINE–WEIGHT INDICATES EXISTING DEVICES/EQUIPMENT TO BE REMOVED AND RELOCATED. REFER TO DEFINITIONS FOR INFORMATION
- #Φ (RE) '(RE)' NEXT TO LIGHT LINE–WEIGHT INDICATES EXISTING DEVICES/EQUIPMENT TO BE REINSTALLED. REFER TO DEFINITIONS FOR INFORMATION
- REMOVALS (EQUIPMENT,CONDUIT,WIRING ETC.)
- EXISTING TO REMAIN
- NEW WORK

POWER SYMBOLS:

- #Φ DUPLEX RECEPTACLE
- #Φ QUAD RECEPTACLE
- # SPECIAL RECEPTACLE (NEMA CONFIGURATION AS INDICATED)
- (M) MOTOR CONNECTION (REFER TO EQUIPMENT CONTROL SCHEDULE)
- ELECTRICAL CONNECTION
- CONTACTOR
- JB JUNCTION BOX
- DISCONNECT SWITCH (NON–FUSED)
- DISCONNECT SWITCH (FUSED)
- PUSH BUTTON EM – INDICATES EMERGENCY SHUT–OFF
- MANUAL MOTOR STARTER
- COMBINATION MAGNETIC MOTOR STARTER
- VFD VARIABLE FREQUENCY DRIVE
- 208V PANELBOARD (RECESSED)
- 208V PANELBOARD (SURFACE)

TELEPHONE/DATA SYMBOLS:

- DR DATA RACK
- #D COMMUNICATIONS OUTLET
  #D – INDICATES NUMBER OF DATA JACKS
  #T – INDICATES NUMBER OF TELEPHONE JACKS
  WAP – WIRELESS ACCESS POINT
  PRES – INDICATES PRESENTATION STATION OUTLET
  PROJ – INDICATES PROJECTOR STATION OUTLET

ONE–LINE SYMBOLS:

- ##A–#P CIRCUIT BREAKER
- ##A FUSE
- ##A FUSED DISCONNECT SWITCH
- GROUND
- 100A;MLO PANELBOARD

FIRE ALARM SYMBOLS:

- 30 AUDIO/VISUAL SIGNALING DEVICE. NUMBER DENOTES CANDELA RATING.
- 30 VISUAL SIGNALING DEVICE. NUMBER DENOTES CANDELA RATING.
- PS PULL STATION
- SDR SMOKE DETECTOR. R SUBSCRIPT: PROVIDE ACCESSORY EQUIPMENT/WIRING/PROGRAMMING FOR ELEVATOR RECALL AND SHUNT TRIP.
- HD HEAT DETECTOR
- CM CONTROL MODULE
- MM MONITOR MODULE
- DSD DUCT SMOKE DETECTOR
- RTS REMOTE TEST STATION
- DH MAGNETIC DOOR HOLDER
- TS TAMPER SWITCH
- FDR FIRE DOOR RELEASE
- FS FLOW SWITCH
- FSD FAN SHUT–DOWN
- FACP FIRE ALARM CONTROL PANEL
- FAAP FIRE ALARM ANNUNCIATOR PANEL
- CO CARBON MONOXIDE DETECTOR (ELECTROCHEMICAL STYLE) (SYSTEM SENSOR C0122ATR OR EQUAL) (INSTALL PER MANUFACTURERS RECOMMEND. AND PER NFPA 720)
- CO2 CARBON DIOXIDE DETECTOR
- GD GAS DETECTOR

SPECIAL SYSTEMS SYMBOLS:

- ACCP AC SYSTEM CONTROL PANEL
- ACMS AC SYSTEM MASTER CONTROL STATION
- CR CARD READER
- DC DOOR CONTACT
- ELECTRIC DOOR STRIKE
- REX REQUEST TO EXIT
- IC INTERCOM STATION
- C1 CLOCK (NO DESIGNATION DENOTES CLASSROOM CLOCK).
  C1 – DENOTES SINGLE FACE HALLWAY CLOCK.
  C2 – DENOTES DUAL FACE HALLWAY CLOCK.
- PUBLIC ADDRESS SPEAKER (CEILING)
- PUBLIC ADDRESS SPEAKER (WALL)
- PUBLIC ADDRESS HORN SPEAKER (WALL)
- C# CEILING MOUNTED CCTV CAMERA
- C# WALL MOUNTED CCTV CAMERA

LIGHTING SYMBOLS:
(REFER TO LIGHT FIXTURE SCHEDULE)

- $ LIGHT SWITCH
  a,b,c – INDICATES SWITCH LEG
  D – DIMMER SWITCH
  K –KEYED
  3 – 3–WAY
  4 – 4–WAY
- C1 OS OCCUPANCY SENSOR
  C# – INDICATES CEILING SENSOR TYPE (REFER TO OCCUPANCY SENSOR SCHEDULE)
  W# – INDICATES WALL SENSOR TYPE (REFER TO OCCUPANCY SENSOR SCHEDULE).
- X# CEILING–MOUNTED EXIT LIGHT. HATCH MARKS INDICATES ILLUMINATED FACE, ARROW INDICATES DIRECTION OF TRAVEL.
- X# WALL–MOUNTED EXIT LIGHT. HATCH MARKS INDICATES ILLUMINATED FACE, ARROW INDICATES DIRECTION OF TRAVEL.
- E# DUAL HEAD WALL–MOUNTED EMERGENCY BATTERY PACK LUMINAIRE.
- SINGLE HEAD WALL–MOUNTED EMERGENCY BATTERY PACK LUMINAIRE.
- F# 2'x4' CEILING MOUNTED LIGHT FIXTURE, F# INDICATES TYPE.
- F# 2'x2' CEILING MOUNTED LIGHT FIXTURE, F# INDICATES TYPE.
- F# 1'x4' CEILING MOUNTED LIGHT FIXTURE, F# INDICATES TYPE.
- F# CEILING MOUNTED DOWNLIGHT FIXTURE, F# INDICATES TYPE.
- F# 4' WALL MOUNTED LIGHT FIXTURE, F# INDICATES TYPE.
- F# WALL MOUNTED FIXTURE, F# INDICATES TYPE.

GENERAL DEMOLITION NOTES:

1. DEMOLITION DRAWINGS ARE BASED ON FIELD OBSERVATION. REPORT ANY CONFLICTS TO THE ENGINEER BEFORE DISTURBING EXISTING EQUIPMENT.
2. BEGINNING OF DEMOLITION MEANS THE CONTRACTOR ACCEPTS ALL EXISTING CONDITIONS.
3. VERIFY SCOPE OF WORK: CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE SCOPE OF THE WORK, AND TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS THAT WILL AFFECT THEIR WORK AND, THEREFORE, THEIR BID.
4. UNLESS NOTED OTHERWISE, EXISTING ELECTRICAL EQUIPMENT SHOWN ON THESE PLANS ARE A PART OF CONTRACT. TO MAINTAIN DRAWING CLARITY NOT ALL EXISTING ELECTRICAL EQUIPMENT HAS BEEN SHOWN. FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT/ ENGINEER OF ANY CONFLICTS.
5. UNLESS NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN ON THESE PLANS AS INDICATED BY CROSS HATCHED LINES AND/OR KEYED NOTES.
6. UNLESS NOTED OTHERWISE, DEMOLITION OF ELECTRICAL EQUIPMENT/DEVICES INCLUDES REMOVAL OF CIRCUITRY BACK TO ASSOCIATED SOURCE/PANEL. THIS INCLUDES REMOVAL OF THE DEVICE, WIRING, CONDUIT, BOXES, CONTROL DEVICES, ETC.
7. WHERE POSSIBLE, EXISTING CONDUITS/RACEWAYS (ASSOCIATED WITH REMOVED EQUIPMENT AND WIRING) MAY BE RE–USED FOR NEW CIRCUITING. EXISTING CONDUITS/RACEWAYS MUST BE IN GOOD CONDITION, AND IN COMPLIANCE WITH NEC/SPECIFICATION REQUIREMENTS. NOTIFY ENGINEER PRIOR TO REUSING.
8. EXISTING CIRCUIT BREAKERS ASSOCIATED WITH ELECTRICAL EQUIPMENT SCHEDULED FOR DEMOLITION SHALL REMAIN FOR SPARES UNLESS REMOVAL IS REQUIRED TO MAKE ADDITIONAL SPACE (IN EXISTING PANELBOARDS) FOR NEW CIRCUIT BREAKERS.
9. MAINTAIN THE ELECTRICAL INTEGRITY OF ALL EXISTING BRANCH CIRCUITS INTERRUPTED BY REMOVAL WORK. PROVIDE ALL WIRING, CONDUIT, AND HARDWARE REQUIRED TO MAINTAIN CONTINUITY OF ELECTRICAL EQUIPMENT REMAINING ON EXISTING BRANCH CIRCUITS NOT BEING COMPLETELY REMOVED OR OUTSIDE WORK THE WORK AREA.
10. UNLESS NOTED OTHERWISE, REMOVE EXISTING ELECTRICAL DEVICES, AND ASSOCIATED CIRCUITRY, LOCATED ON OR IN WALLS SCHEDULED FOR REMOVAL. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION COORDINATION.
11. UNLESS NOTED OTHERWISE, REMOVE EXISTING ELECTRICAL DEVICES, AND ASSOCIATED CIRCUITRY, LOCATED ON OR IN CEILINGS SCHEDULED FOR REMOVAL. TO MAINTAIN DRAWING CLARITY, EXISTING CEILINGS SCHEDULED FOR DEMOLITION HAVE NOT BEEN IDENTIFIED ON THIS DRAWING. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION COORDINATION.
12. WHERE REMOVALS OCCUR ON SERVICES THAT ARE TO REMAIN IN OPERATION, CAP OR OTHERWISE TERMINATE THE REMAINING SERVICES BENEATH FINISHED SURFACES.
13. ALL CONDUITS STUBBED THRU FLOOR SERVING ITEMS TO BE REMOVED, AND NOT SHOWN OR REQUIRED TO BE REUSED, SHALL BE CUT OFF FLUSH, SLAB LEVEL WITH CONCRETE.
14. PORTIONS OF FEEDERS RISERS WHICH REQUIRE REMOVAL DUE TO DEMOLITION WORK, BUT WHICH ARE REQUIRED TO REMAIN ENERGIZED, SHALL BE CUT AT ACCESSIBLE LOCATIONS, REROUTED AND RECONNECTED. EXTEND EXISTING FEEDERS AS REQUIRED. MATCH EXISTING FEEDERS IN CONDUCTOR SIZE (AMPACITY RATING), RACEWAY SIZE, ETC.
15. CAREFULLY REMOVE, PROTECT AND STORE ALL EQUIPMENT TO BE REUSED IN A SAFE PLACE UNTIL READY FOR REINSTALLATION. CLEAN MATERIALS BEFORE REINSTALLATION AND ENSURE EQUIPMENT IS STILL FULLY OPERATIONAL.
16. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OR RELOCATION OF ITEMS, NOT SHOWN ON THESE DRAWINGS TO ACCOMMODATE THE RENOVATIONS. CONTRACTOR SHALL INCLUDE, IN BASE BID, AN ALLOWANCE FOR UNFORESEEN CONDITIONS WHEN CONCEALED WORK IS EXPOSED. CLAIMS FOR ADDITIONAL DEMOLITION WORK WILL NOT BE ACCEPTED EXCEPT FOR CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT/ENGINEER.

DAMAGE TO WALLS AND/OR CEILINGS DURING YOUR SCHEDULED WORK

1. CONTRACTORS NOT TO DAMAGE EXISTING WALLS THAT ARE TO REMAIN. THIS INCLUDES WALLS WHERE ONLY A PORTION OR SIDE OF THE WALL IS TO REMAIN AND THE OTHER SIDE OF WALLS IS TO BE MODIFIED OR REPLACED. CONTRACTOR IS RESPONSIBLE FOR REPAIR TO DAMAGE WALLS AND TO ANY PORTION OF WALLS THAT ARE EXISTING TO REMAIN, EVEN IF NOT SPECIFICALLY MARKED AS SUCH.
2. CONTRACTOR IS RESPONSIBLE FOR REPAIR TO DAMAGE CEILINGS AND TO ANY PORTION OF CEILINGS THAT ARE EXISTING TO REMAIN, EVEN IF NOT SPECIFICALLY MARKED AS SUCH

BIDDING NOTE:

UNLESS OTHERWISE SPECIFIED, THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL WORK INDICATED ON THE ELECTRICAL AND SECURITY DRAWINGS.

CONTRACTORS' COORDINATION NOTE:

ALL CONTRACTORS ARE REQUIRED TO REVIEW THE CONTRACT DRAWINGS FOR ALL TRADES AND DETERMINE NECESSARY COORDINATION BETWEEN TRADES PRIOR TO BIDDING. ANY DISCREPANCIES, COMMENTS, OR QUESTIONS ARE TO BE SUBMITTED TO THE ENGINEER BY RFI.

FIRE ALARM NOTES:

1 CONTRACTOR SHALL VERIFY AND COORDIANTE WITH THE BUILDING FIRE ALARM MAINTENANCE VENDOR FOR TYPE OF FIRE ALARM DEVICES TO BE USED.

2. CONTRACTOR SHALL BE RESPONSIBLE TO RETAIN AND COORDINATE THE BUILDING FIRE ALARM MAINTENANCE VENDOR FOR PROGRAMMING AND FINAL CONNECTIONS. CONTRACTOR SHALL INCLUDE PROGRAMMING AND FINAL CONNECTION COSTS IN THEIR BID.
3. FIRE ALARM WIRING DIAGRAMS SHOWN ARE GENERAL ARRANGEMENTS ONLY. OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
4. PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
5. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND PROTECT FIRE ALARM NOTIFICATION DEVICES, SMOKE DETECTORS AND OTHER FIRE ALARM SAFETY DEVICES IN OPERATION AT ALL TIMES. IF ANY PORTION OF FIRE ALARM SYSTEM IS DISABLED, NOTIFY BUILDING CUSTODIAN IMMEDIATELY.
6. IN AREAS WHERE DUST AND DIRT WILL BE AIRBOURNE DURING DEMOLITION AND CONSTRUCTION THE CONTRACTOR SHALL PROVIDE PLASTIC WRAPOVER SMOKE DETECTORS AND THEN REMOVE ONCE SPACE IS CLEAN.IF A FIRE ALARM DEVICE IS LOCATED ON A WALL OR CEILING TO BE REMOVED, UNLESS OTHERWISE INDICATED THE DEVICE SHALL BE REMOVED AND STORED. ONCE CONSTRUCTION IS COMPLETE THE DEVICE SHALL BE REINSTALLED IN IT'S ORIGINAL LOCATION OR AS CLOSE TO ITS ORIGINAL LOCATION AS FEASIBLE. REUSE EXISTING WIRING IF POSSIBLE, PROVIDE NEW WIRING IF NECESSARY.
7. UNLESS DIRECTED OTHERWISE BY FIRE ALARM SYSTEM MANUFACTURER FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY)
   SIGNAL WIRING – #14 AWG TWISTED/SHIELDED
   BELL WIRING – #14 AWG TWISTED CABLE
   STROBE WIRING – #14 TWISTED CABLE
   THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
   A. A MINIMUM TEMPERATURE RATING 150° C
   B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS
   C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS
   D. THE COLOR OF THE CABLE SHALL BE RED
   E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE) WHEN CONDUIT IS USED. TO PURCHASING
   F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY U.L. CONFIRM WIRING TYPE AND QUANTITY WITH FIRE ALARM SYSTEM MANUFACTURER PRIOR.
8. PROVIDE MC FIRE ALARM CABLE WITH RED STRIPE AS MANUFACTURED BY AFC SERIES 1800 WHEN CABLE IS CONCEALED OR ABOVE HUNG CEILING. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN FINISHED AREAS, CABLE SHALL RUN IN WIREMOLD V–700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN. ¾" CONDUIT.
9. STROBES SHALL HAVE A MINIMUM LIGHT OUTPUT OF 75 CANDELA AND A FLASH9.RATE OF 1–3 HZ.
10. SHUTDOWN OF HVAC SYSTEM EQUIPMENT (NOT LIMITED TO, ROOF TOP., 10.EXHAUST FANS, ETC.) OF 1000 CFM OR GREATER, SHALL BE PERFORMED VIA A RELAY INTERFACE SYSTEM. SEND SIGNAL TO BUILDING AUTOMATED TEMPERATURE CONTROL (ATC) SYSTEM INDICATING SHUTDOWN HAS OCCURED. EQUIPMENT RESTART SHALL BE BY BUILDING 'ATC' SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
11. AFTER THE SYSTEM MODIFICATIONS ARE COMPLETE TEST ALL COMPONETS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
12. A CARBON MONOXIDE DETECTORS SHALL BE PROVIDED IN ALL BOILER ROOMS. ACTIVATION INITIATE A SUPERVISORY SIGNAL AT THE FIRE ALARM CONTROL PANEL AND ANNUNCIATOR PANEL WHEN 70 PPM ARE REACHED WITHIN 60–240 MINUTES OR 150 PPM ARE REACHED WITHIN 10–50 PER UL 2034.

ABBREVIATIONS

EX–	EXISTING
A–	AMPERE
NF–	NON–FUSED
EXT–	EXTERIOR
AC–	ABOVE COUNTER
NIC–	NOT IN CONTRACT
FA–	FIRE ALARM
AFF–	ABOVE FINISHED FLOOR
NL–	NIGHT LIGHT
NTS–	NOT TO SCALE
FL–	FLOOR
AHU–	AIR HANDLING UNIT
OC–	ON CENTER
FLA–	FULL LOAD AMPS
A/V–	AUDIO/VISUAL
P–	POLE
FLUOR–	FLUORESCENT
AWG–	AMERICAN WIRE GUAGE
PNL–	PANEL
GC–	GENERAL CONTRACTOR
AU–	AT UNIT
PRI–	PRIMARY
GFI–	GROUND FAULT CIRCUIT
BKR–	BREAKER
SEC–	SECONDARY
C–	CONDUIT
GND–	GROUND
SW–	SWITCH
CB–	CIRCUIT BREAKER
HP–	HORSEPOWER
TEL–	TELEPHONE
CKT–	CIRCUIT
HVAC–	HEATING VENTILATION & AIR CONDITIONING
TV–	TELEVISION
CLG–	CEILING
TYP–	TYPICAL
DEMO–	DEMOLISH/DEMOLITION
KVA–	KILOVOLT AMPS
UGE–	UNDERGROUND ELECTRIC
DTL–	DETAIL
KW–	KILOWATTS
UNO–	UNLESS NOTED OTHERWISE
DWG–	DRAWING
LTG–	LIGHTING
EA–	EACH
MC–	MECHANICAL CONTRACTOR
EC–	ELECTRICAL CONTRACTOR
MCA–	MINIMUM CIRCUIT AMPS
WG–	WIRE GUARD
EF–	EXHAUST FAN
MCB–	MAIN CIRCUIT BREAKER
WP–	WEATHERPROOF
EM–	EMERGENCY
MDP–	MAIN DISTRIBUTION PANEL
XFMR–	TRANSFORMER
EC–	ELECTRICAL CONTRACTOR
MC–	MECHANICAL CONTRACTOR
PC–	PLUMBING CONTRACTOR
WAC–	WINDOW AIR CONDITIONER

NOTE: ABBREVATIONS MAY OR MAY NOT USE PERIODS, EXAMPLE A.F.F. OR AFF

GENERAL NEW WORK NOTES:

1. UNLESS NOTED AS EXISTING OR PROVIDED BY OTHERS, CONTRACTOR SHALL PROVIDE ALL MATERIALS SHOWN ON DRAWINGS. ALL MATERIALS PROVIDED SHALL BE NEW, UNUSED CONDITION.
2. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE PROVIDED WITH MINIMUM DISRUPTION TO THE BUILDING SYSTEMS AND STAFF. CONTINUOUS OPERATION OF THE BUILDING SYSTEMS, OUTSIDE OF WORK AREA, SHALL BE MAINTAINED THROUGHOUT THE ENTIRE PROJECT. TEMPORARY SHUTDOWN OF SYSTEMS SHALL ONLY BE ALLOWED WITH WRITTEN CONSENT OF THE OWNER. EXISTING ALARM AND EMERGENCY SYSTEMS SHALL NOT BE DISRUPTED AT ANY TIME DURING THE PROJECT.
3. REMOVE & REINSTALL EXISTING CONSTRUCTION (CEILINGS, LIGHTING, ELECTRICAL EQUIPMENT, FIRE ALARM DEVICES, FURNISHINGS, ETC.) AS NECESSARY TO COMPLETE THE REMOVALS & RENOVATION WORK REQUIRED BY THE DRAWINGS & SPECIFICATIONS. REPLACE ANY ITEMS DAMAGED BY OR DUE TO THIS REMOVAL & REINSTALLATION WITH NEW ITEMS TO MATCH EXISTING. (APPLIES TO AREAS WITHIN & OUTSIDE OF THE PROJECT AREA).
4. IN AREAS WHERE CEILING IS BEING REMOVED, EXISTING CONDUITS AND CABLING WHICH ARE NOT INDEPENDENTLY SUPPORTED ABOVE THE CEILING SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE ABOVE USING SPECIFIC METHODS.
5. SURFACE MOUNT ALL WIRING DEVICES, LIGHTING CONTROLS, TELECOMMUNICATION DEVICES, FIRE ALARM DEVICES, ETC. LOCATED ON EXISTING MASONRY WALLS. PROVIDE SURFACE MOUNTED BOXES, RACEWAYS, WIREMOLD, ETC. PER SPECIFICATIONS.
6. COVERS ASSOCIATED WITH JUNCTION AND PULL BOXES SHALL BE READILY ACCESSIBLE.
7. PROVIDE PULL BOXES WHERE REQUIRED BY CODE AND WHERE NECESSARY FOR CONDUCTOR INSTALLATION. PROVIDE PULL BOXES EVERY 100' FOR ALL EMPTY RACEWAY RUNS. PRIOR TO INSTALLATION OF PULL BOXES, COORDINATE WITH OTHER TRADES.
8. PROVIDE SEPARATE RACEWAYS AND BOXES FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS.
9. DO NOT COMBINE MORE THAN THREE PHASE CONDUCTORS, THREE NEUTRAL CONDUCTORS PLUS THREE GROUND CONDUCTORS, IN ANY ONE BRANCH CIRCUIT CONDUIT, UNLESS OTHERWISE INDICATED ON DRAWINGS.
10. THE USE OF NON–METTALLIC SURFACE RACEWAY OR EXPOSED NON–METTALLIC RACEWAY IN ASSEMBLY SPACES AND MEANS OF EGRESS AREAS IS PROHIBITED.
11. THE USE OF SHARED NEUTRALS IN LIGHTING AND RECEPTACLE BRANCH CIRCUITS IS PROHIBITED. PROVIDE SEPARATE NEUTRAL AND GROUND FOR EVERY CIRCUIT.
12. PROTECT EXISTING SURFACES.
13. WALK–THRU WITH OWNER REPRESENTATIVE AND VERIFY ALL ELECTRICAL DEVICE LOCATIONS PRIOR TO INSTALLATION.
14. INSTALL ALL CIRCUITRY PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, AND CEILING.
15. REFER TO ELECTRICAL EQUIPMENT AND CONTROL SCHEDULE FOR HVAC/PLUMBING EQUIPMENT CIRCUITRY, CONTROLS & ADDITIONAL INFORMATION.
16. TO MAINTAIN DRAWING CLARITY, MOTOR CONTROL DEVICES, FOR HVAC/PLUMBING EQUIPMENT, HAVE NOT BEEN SHOWN. REFER TO ELECTRICAL EQUIPMENT & CONTROL SCHEDULE FOR TYPES OF MOTOR CONTROL DEVICES REQUIRED, LOCATIONS WHERE CONTROL DEVICES ARE SCHEDULED FOR INSTALLATION, AND ADDITIONAL INFORMATION.
17. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT/DEVICES WITH ARCHITECTURAL PLANS, ELEVATIONS, FURNITURE LAYOUTS, AND WITH OTHER DIVISIONS PRIOR TO INSTALLATION. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT COST TO OWNER.
18. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SUPPORT HARDWARE FOR SECURELY FASTENING THE ELECTRICAL CONTROL DEVICES AND ENCLOSURES TO THE BUILDING STRUCTURE. THE REQUIRED HARDWARE INCLUDES, BUT IS NOT LIMITED TO, INTERMEDIATE STEEL ANGLE, UNISTRUCT, FASTENERS, JOISTS CLAMPS, ETC. MOUNT STARTERS, VFD'S, DISCONNECTS, RELAYS, AND OTHER ELECTRICAL CONTROL DEVICES AND ENCLOSURES AT LOCATION(S) INDICATED IN ELECTRIC EQUIPMENT & CONTROL SCHEDULE(S). ALLOW MAINTENANCE ACCESS AND SERVICE SPACE AT EACH LOCATION.
19. WHERE NEW CIRCUIT BREAKERS ARE REQUIRED FOR INSTALLATION IN EXISTING ELECTRICAL PANELS, CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS WHICH ARE COMPATIBLE WITH EXISTING ELECTRICAL PANELS. MATCH FRAME SIZES, KIAC RATINGS, ETC.
20. UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL PROVIDE COMPLETE, TYPE–WRITTEN, AND UP–TO–DATE PANELBOARD DIRECTORIES FOR ALL PANELBOARDS (NEW AND EXISTING) AFFECTED BY THIS PROJECT. PROVIDE OWNER WITH TWO COPIES OF UPDATED PANELBOARD CIRCUIT BREAKER DIRECTORIES.
21. EACH RECEPTACLE, SWITCH AND JUNCTION BOX, PROVIDED, OR ALTERED, UNDER THIS CONTRACT, SHALL BE LABELED WITH THE CORRESPONDING POWER PANEL NAME AND CIRCUIT BREAKER NUMBER. ALL LABELING SHALL BE TYPEWRITTEN USING A LABEL MAKER AND SHALL BE PERMANENTLY AFFIXED TO EACH FACEPLATE. HANDWRITTEN LABELS WILL NOT BE ACCEPTED. PRIOR TO START OF LABELING, MEET WITH OWNER TO DETERMINE LABELING SCHEME TO BE UTILIZED. PROVIDE LABELING TO MEET OWNER REQUIREMENTS.
22. ALL ITEMS THAT REQUIRE ACCESS, SUCH AS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE BY PERSONS STANDING AT FLOOR LEVEL, OR STANDING ON PERMANENT PLATFORMS, WITHOUT THE USE OF PORTABLE LADDERS. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF SWITCHES, PANELBOARDS, OCCUPANCY SENSORS, CONTROL DEVICES, ETC;. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DRAWINGS TO OWNER FOR RESOLUTION.
23. CLEANING DURING ELECTRICAL WORK: THE MECHANICAL ROOM AND ROOMS WHERE WORK WILL BE DONE TO MINIMIZE DISTURBANCE IN THE BUILDINGS. WORKERS ARE TO USE PATHWAYS AND FACILITIES AGREED UPON WITH THE DISTRICT DESIGNEE IN WRITING. THE AREA OUTSIDE THE BUILDING WHERE CUTTING WELDING OR STORAGE IS ALLOWED IS TO BE FENCED AT ALL TIMES. THE CONTRACTOR WILL ON A DAILY BASIS CLEAN THE GROUNDS AND THE BUILDING OF ANY DEBRIS OR GARBAGE GENERATED BY THEIR WORK.
24. VFDS ARE TO BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT, TO ALTER THIS DRAWING OR REPORT IN ANY WAY. IF ANY ALTERATIONS ARE MADE TO THIS PLAN, ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND SEAL. COPYRIGHT © 2019

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STATE OF NEW YORK · JACK EISENBACH · LICENSED PROFESSIONAL ENGINEER · NO. 059445

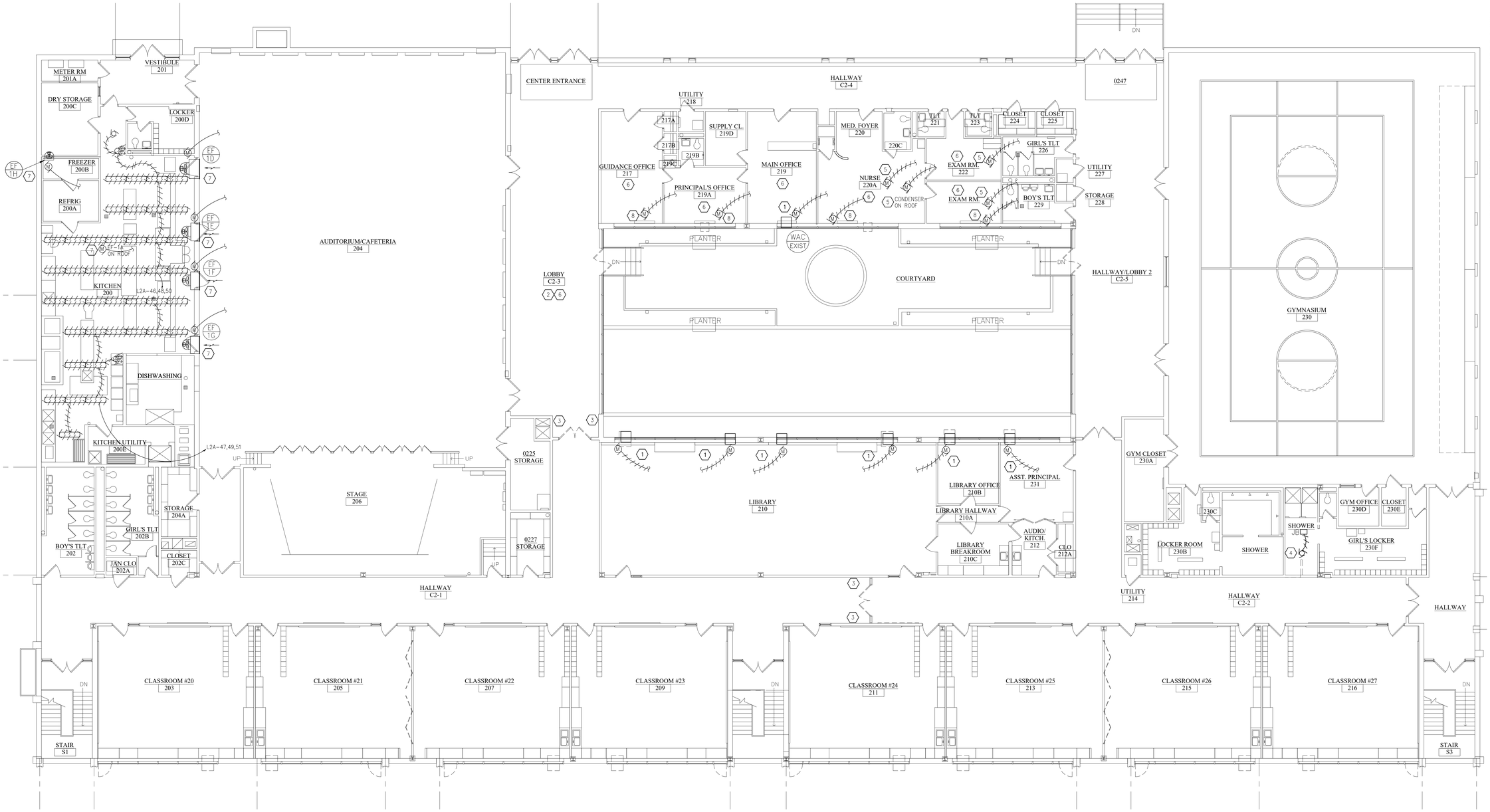
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

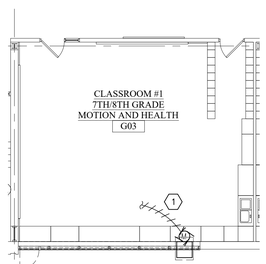
E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ABBREVIATIONS AND SYMBOLS

SHEET NO.
E-001

FILE PATH –N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.Interior\y19mlk01.E001.dwg

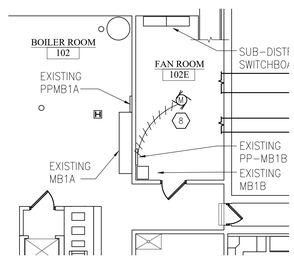




1 PARTIAL GROUND FLOOR PLAN - DEMOLITION

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

0 2' 8' 32'
4' 16'



2 PARTIAL FIRST FLOOR PLAN - DEMOLITION

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

0 2' 8' 32'
4' 16'

3 SECOND FLOOR PLAN - DEMOLITION

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

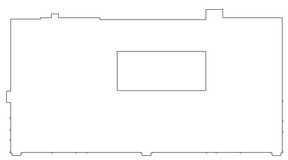
0 2' 8' 32'
4' 16'

KEYED NOTES – DEMOLITION

1. DISCONNECT WINDOW AIR CONDITIONER FROM EXISTING CIRCUIT. REMOVE OUTLET, WIRING AND CONDUIT BACK TO POWER PANEL. LABEL NEWLY UNUSED BREAKER AND CORRESPONDING SCHEDULE SPACE AS "SPARE".
2. EXISTING LIGHTS, FIRE ALARM DEVICES, AND CEILING MOUNTED DEVICES IN CORRIDOR C2-3 ARE TO BE REMOVED AND REUSED. REUSE EXISTING CIRCUITS. SEE A200 FOR ADDITIONAL INFORMATION.
3. DOOR HOLD OPEN DEVICES TO BE REMOVED AND RELOCATED. SEE NEW WORK PLAN.
4. REMOVE LIGHT FIXTURE, CONDUIT AND WIRING BACK TO NEAREST JUNCTION BOX. FIELD VERIFY.
5. DISCONNECT MINI SPLIT SYSTEM FROM EXISTING CIRCUIT. REMOVE WIRING AND CONDUIT BACK TO POWER PANEL. LABEL NEWLY UNUSED BREAKER AND CORRESPONDING SCHEDULE SPACE AS "SPARE".
6. REMOVE ALL LIGHT FIXTURES AND SWITCHES IN ROOMS INDICATED. REMOVE FIRE ALARM DEVICES AND CEILING MOUNTED DEVICES AND STORE FOR REUSE.
7. DISCONNECT POWER FROM EXISTING EQUIPMENT. PROVIDE REPAIRS/MODIFICATIONS NECESSARY TO PREPARE CIRCUITS FOR REUSE DURING NEW WORK.
8. DISCONNECT EQUIPMENT FROM EXISTING CIRCUIT. REMOVE WIRING AND CONDUIT BACK TO POWER PANEL. LABEL NEWLY UNUSED BREAKER AND CORRESPONDING SCHEDULE SPACE AS "SPARE".
9. ALTERNATE EC1: REMOVE EXISTING LIGHTING, SWITCHES, WIRING AND CONDUIT IN KITCHEN AND SURROUNDING AREAS AS INDICATED. HOME RUNS TO BE REUSED. DISCONNECT EXISTING CEILING MOUNTED DEVICES AND SAFELY STORE FOR REUSE. COORDINATE WITH WORK ASSOCIATED WITH ALTERNATE GC1.

GENERAL DEMOLITION NOTES:

1. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
2. PROTECT EXISTING TO REMAIN EQUIPMENT AND SURFACES. CONTRACTOR RESPONSIBLE FOR RESTORATION OF DAMAGED EQUIPMENT OR SURFACES TO THE SATISFACTION OF THE DISTRICT.
3. UNLESS OTHERWISE IDENTIFIED, STAGING AREAS TO BE COORDINATED WITH THE DISTRICT.



KEY-PLAN

SCALE: NONE

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER ANY ITEM ON THIS PLAN. IF ANY ITEM BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO SUCH ITEM HIS OR HER SEAL AND A NOTATION INDICATING THE PART OF ITEM ALTERED, ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE. COPYRIGHT © 2019

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ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School

135 Locust Hill Avenue, Yonkers N.Y. 10701

S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-232-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

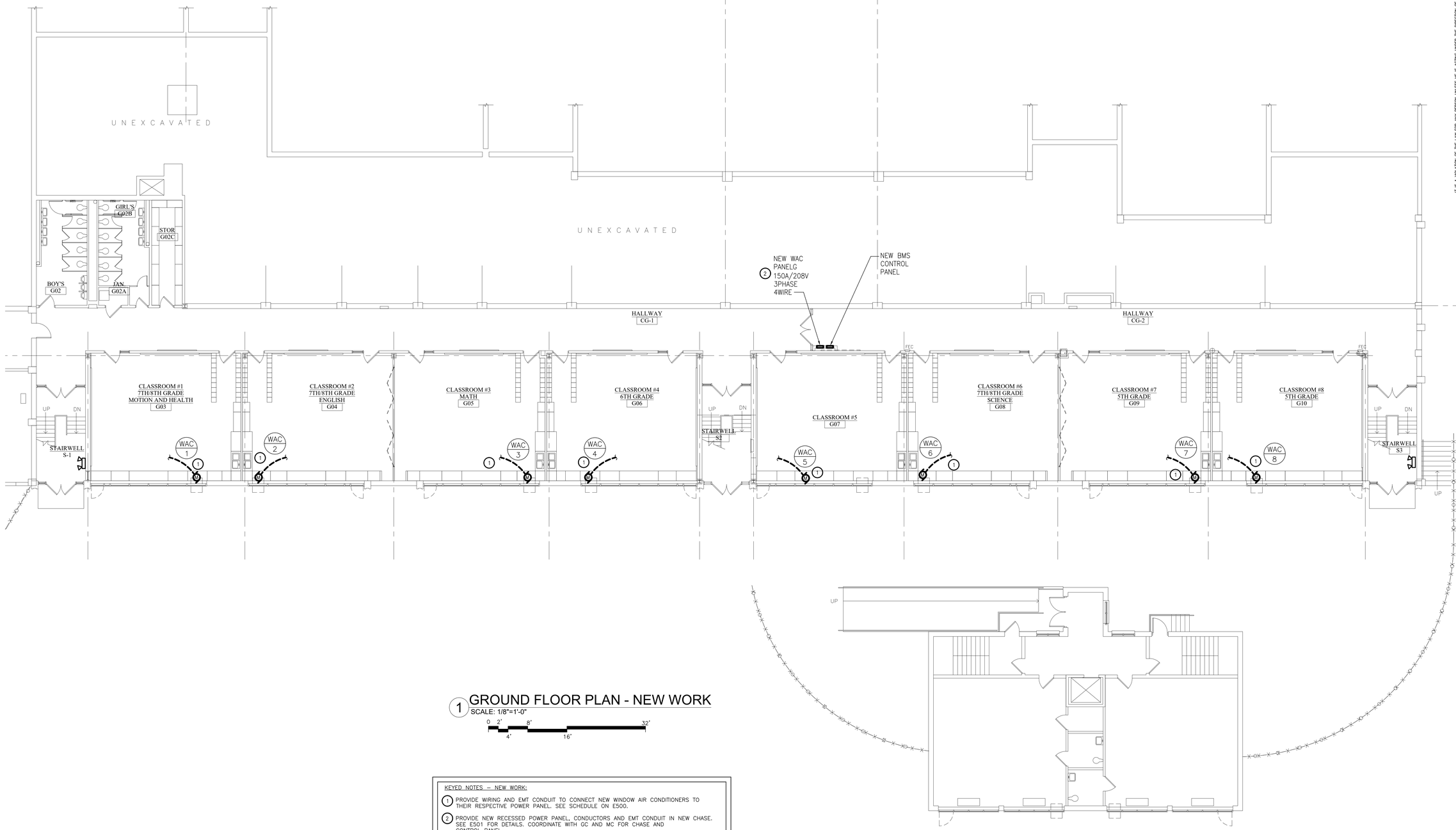
SHEET TITLE

GROUND FLOOR, FIRST FLOOR AND SECOND FLOOR PLANS - DEMOLITION

SHEET NO.

ED-100

FILE PATH - N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.interior\Y19mlk01.ED100.dwg



1 GROUND FLOOR PLAN - NEW WORK

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

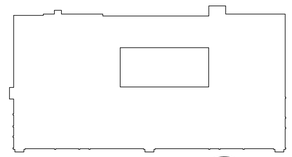
0 2' 4' 8' 16' 32'

KEYED NOTES – NEW WORK:

1. PROVIDE WIRING AND EMT CONDUIT TO CONNECT NEW WINDOW AIR CONDITIONERS TO THEIR RESPECTIVE POWER PANEL. SEE SCHEDULE ON E500.
2. PROVIDE NEW RECESSED POWER PANEL, CONDUCTORS AND EMT CONDUIT IN NEW CHASE. SEE E501 FOR DETAILS. COORDINATE WITH GC AND MC FOR CHASE AND CONTROL PANEL.
3. PROVIDE NEW EMERGENCY LIGHT FIXTURES IN HALLWAYS AND STAIRWELLS WHERE SHOWN.

GENERAL WORK NOTES:

1. EC TO PROVIDE AND INSTALL ALL ELECTRICAL DISTRIBUTION PANELS, CB'S, WIRING, AND CONDUIT UNLESS OTHERWISE NOTED.
2. EC TO VERIFY ALL SERVICE VOLTAGES PRIOR TO MODIFICATION OR INSTALLATION OF ELECTRICAL EQUIPMENT.
3. EC SHALL COORDINATE WITH MECHANICAL CONTRACTOR (MC) FOR LOCATION OF EQUIPMENT.
4. MC SHALL PROVIDE AND INSTALL ALL CONTROL, SENSOR, AND SIGNALING WIRE AND CONDUIT BETWEEN EQUIPMENT AND BMS.
5. EC SHALL COORDINATE WITH MC ALL WORK PRIOR TO COMMENCEMENT TO AVOID DUPLICATION OF SERVICE OR CONFLICTS WITH EXISTING SPACES.
6. EC SHALL LABEL ALL NEW WORK, PANELS, AND CIRCUITS TO CLEARLY IDENTIFY EQUIPMENT, LOADS, AND CIRCUIT NUMBERS.
6. MC SHALL FIELD VERIFY DISTANCE FROM EQUIPMENT TO BMS AND MAKE FINAL CONNECTION TO BMS AND PROGRAM IT'S OPERATION.
7. ALL CONDUCTORS AND GROUNDS SHALL BE COPPER UNLESS OTHERWISE SPECIFIED.
8. CONTACT ENGINEERING FOR DISCREPANCIES OR CONFLICTS BETWEEN DRAWINGS, SPECIFICATION, OR SCHEDULES.
9. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
10. PROVIDE FIRESTOP AT ALL INTERIOR WALL AND FLOOR PENETRATIONS. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS TO BE WEATHER TIGHT. SEAL ROOF PENETRATIONS TO BE WEATHER TIGHT AND TO MAINTAIN ROOF WARRANTY.



KEY-PLAN

SCALE: NONE

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YONKERS PUBLIC SCHOOLS
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BID SET	**12/07/2023**
REVISION	DATE
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CHECKED BY	JIE
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SCALE	AS SHOWN

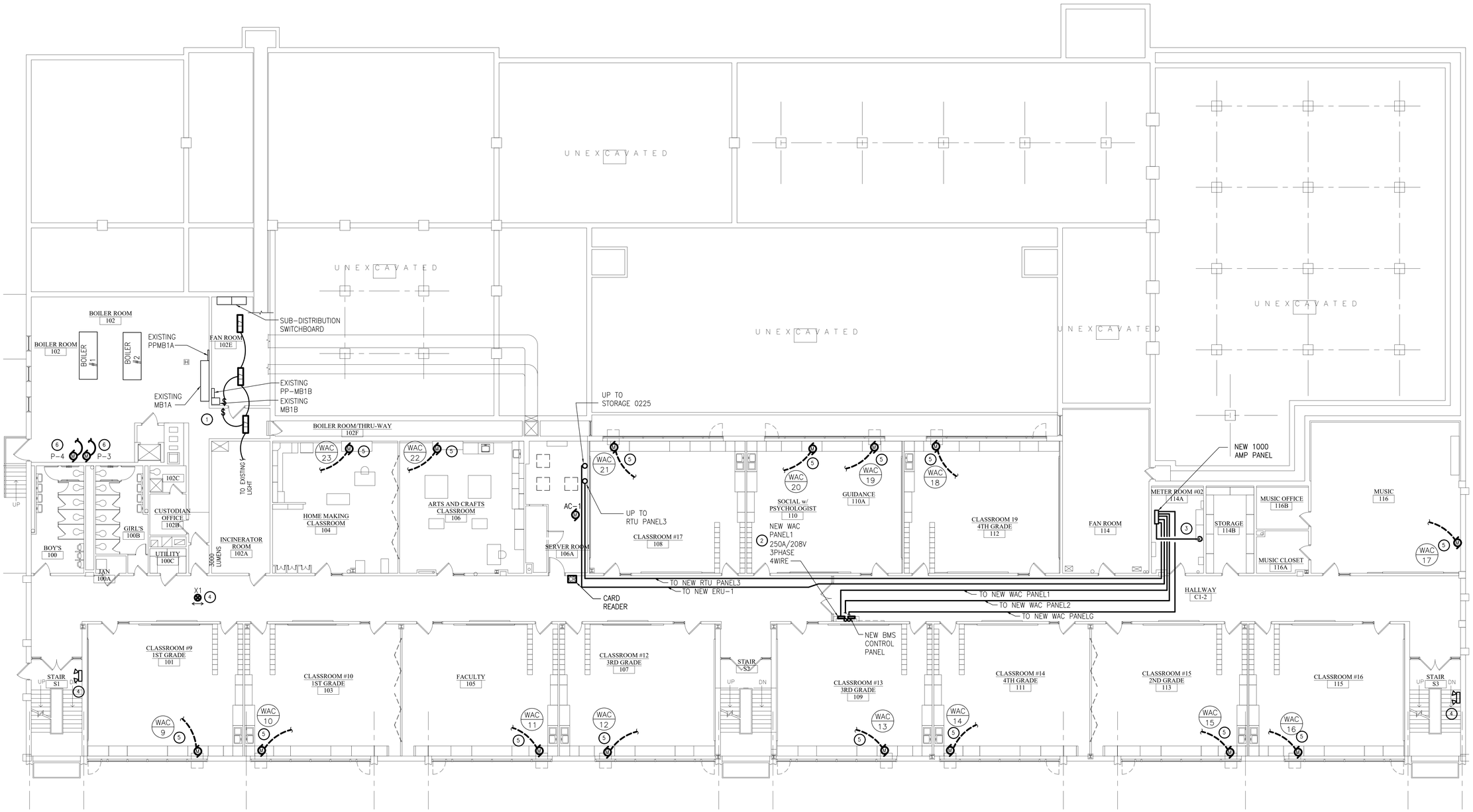
SHEET TITLE

GROUND FLOOR PLAN - NEW WORK

SHEET NO.

E-100

FILE PATH – N:\ – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.Interior\Y19mlk01.E100.dwg



KEYED NOTES – NEW WORK:

1. PROVIDE CONDUCTORS AND EMT CONDUIT TO CONNECT NEW RTU PANEL TO EXISTING 100A BREAKER IN EXISTING PANEL PPMB1B. RELABEL BREAKER AND SCHEDULE SPACE AS "RTU PANEL".
2. PROVIDE NEW RECESSED POWER PANEL, CONDUCTORS AND EMT CONDUIT IN NEW CHASE. SEE E501 FOR DETAILS. COORDINATE WITH GC AND MC FOR CHASE AND CONTROL PANEL.
3. PROVIDE NEW 1000 AMP PANEL, CONDUCTORS AND EMT CONDUIT AS INDICATED. SEE E501 AND E502 FOR DETAILS. CONDUCTORS FOR NEW WAC PANELS TO RUN INSIDE NEW CHASE IN HALLWAY. COORDINATE WITH OTHER TRADES.
4. PROVIDE NEW EMERGENCY LIGHT FIXTURES IN HALLWAYS AND STAIRWELLS WHERE SHOWN.
5. PROVIDE WIRING AND EMT CONDUIT TO CONNECT NEW WINDOW AIR CONDITIONERS TO THEIR RESPECTIVE POWER PANEL. SEE SCHEDULE ON E500.
6. PROVIDE WIRING AND EMT CONDUIT TO CONNECT NEW PUMPS TO THEIR RESPECTIVE POWER PANELS. SEE SCHEDULE ON E500. PROVIDE CONNECTIONS FOR VFD AND DISCONNECT WHEN APPLICABLE.

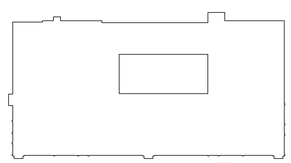
1 FIRST FLOOR PLAN - NEW WORK

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

0 2' 4' 8' 16' 32'

GENERAL WORK NOTES:

1. EC TO PROVIDE AND INSTALL ALL ELECTRICAL DISTRIBUTION PANELS, CB'S, WIRING, AND CONDUIT UNLESS OTHERWISE NOTED.
2. EC TO VERIFY ALL SERVICE VOLTAGES PRIOR TO MODIFICATION OR INSTALLATION OF ELECTRICAL EQUIPMENT.
3. EC SHALL COORDINATE WITH MECHANICAL CONTRACTOR (MC) FOR LOCATION OF EQUIPMENT.
4. MC SHALL PROVIDE AND INSTALL ALL CONTROL, SENSOR, AND SIGNALING WIRE AND CONDUIT BETWEEN EQUIPMENT AND BMS.
5. EC SHALL COORDINATE WITH MC ALL WORK PRIOR TO COMMENCEMENT TO AVOID DUPLICATION OF SERVICE OR CONFLICTS WITH EXISTING SPACES.
6. EC SHALL LABEL ALL NEW WORK, PANELS, AND CIRCUITS TO CLEARLY IDENTIFY EQUIPMENT, LOADS, AND CIRCUIT NUMBERS.
6. MC SHALL FIELD VERIFY DISTANCE FROM EQUIPMENT TO BMS AND MAKE FINAL CONNECTION TO BMS AND PROGRAM IT'S OPERATION.
7. ALL CONDUCTORS AND GROUNDS SHALL BE COPPER UNLESS OTHERWISE SPECIFIED.
8. CONTACT ENGINEERING FOR DISCREPANCIES OR CONFLICTS BETWEEN DRAWINGS, SPECIFICATION, OR SCHEDULES.
9. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
10. PROVIDE FIRESTOP AT ALL INTERIOR WALL AND FLOOR PENETRATIONS. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS TO BE WEATHER TIGHT. SEAL ROOF PENETRATIONS TO BE WEATHER TIGHT AND TO MAINTAIN ROOF WARRANTY.



KEY-PLAN

SCALE: NONE

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YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

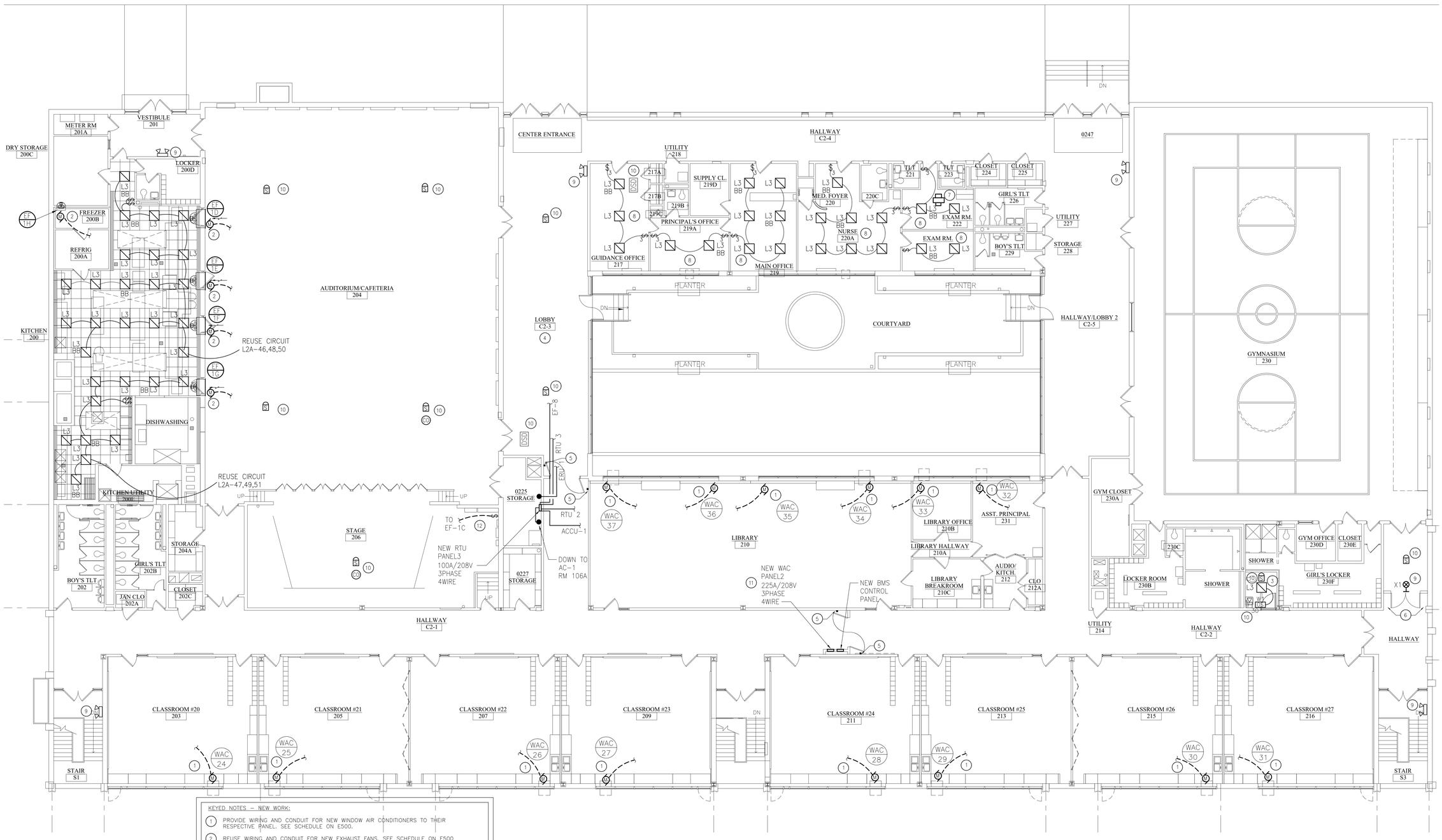
SHEET TITLE

FIRST FLOOR
PLAN - NEW WORK

SHEET NO.

E-101

FILE PATH - N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 (Dir# 10875 YPS MLK\CAD\Part3.Interior\Y19mlk01.E101.dwg



KEYED NOTES – NEW WORK:

1. PROVIDE WIRING AND CONDUIT FOR NEW WINDOW AIR CONDITIONERS TO THEIR RESPECTIVE PANEL. SEE SCHEDULE ON E500.
2. REUSE WIRING AND CONDUIT FOR NEW EXHAUST FANS. SEE SCHEDULE ON E500
3. CONNECT NEW LIGHTING AND HARDWIRE ELECTRIC FLUSHOMETER AND FAUCET TO LOCAL CIRCUIT. PROVIDE SUPPORT, EMT CONDUIT, JUNCTION BOXES, WIRE AND ASSOCIATED MATERIALS. COORDINATE WITH PLUMBING DRAWINGS.
4. EXISTING LIGHTS, FIRE ALARM DEVICES, AND CEILING MOUNTED DEVICES IN CORRIDOR C2-3 ARE TO BE REUSED. REUSE EXISTING CIRCUITS. SEE A200 FOR ADDITIONAL INFORMATION.
5. REINSTALL DOOR HOLD OPEN DEVICES IN SPECIFIED LOCATIONS AND PROVIDE ALL NEW MATERIALS AND ALTERATIONS TO RECONNECT TO EXISTING CIRCUITS.
6. PROVIDE NEW DOOR HOLD OPEN DEVICES. TIE INTO EXISTING CIRCUITS.
7. PROVIDE WIRING, CONDUIT AND NEW CIRCUIT BREAKER FOR NEW ROOFTOP EXHAUST FAN. SEE SCHEDULE ON E500.
8. PROVIDE NEW LIGHT FIXTURES, WIRING, SWITCHES AND EMT CONDUIT AS SHOWN COORDINATE WITH ARCHITECTURAL DRAWINGS FOR PROPOSED CEILING LAYOUT. REINSTALL AND RECONNECT EXISTING FIRE ALARM DEVICES, AND CEILING MOUNTED DEVICES.
9. PROVIDE NEW EMERGENCY LIGHT FIXTURES IN HALLWAYS AND STAIRWELLS WHERE SHOWN.
10. PROVIDE NEW ALARM DEVICES AND DETECTORS AS SHOWN. CONNECT TO EXISTING FIRE ALARM CONTROL PANEL IN ROOM 114A. PROVIDE NEW ¾" CONDUIT AND CONTROL WIRING. INSTALL PER NFPA 72
11. PROVIDE NEW RECESSED POWER PANEL, CONDUCTORS AND EMT CONDUIT IN NEW CHASE. SEE E501 FOR DETAILS. COORDINATE WITH GC AND MC FOR CHASE AND CONTROL PANEL.
12. PROVIDE PILOT-LIGHT STYLE SWITCH, WIRING AND CONDUIT TO PLACE EF-1C ON STANDBY. LABEL SWITCH "EF-1C STAGE EXHAUST". SWITCH TO INDICATE ON/OFF.
13. ALTERNATE EC1: PROVIDE NEW LIGHT FIXTURES, SWITCHES, WIRING AND CONDUIT IN KITCHEN AND SURROUNDING AREAS AS INDICATED. REINSTALL CEILING MOUNTED DEVICES IN SAME LOCATIONS.

NOTE: COORDINATE WITH MECH DRAWINGS FOR DUCT DETECTORS.

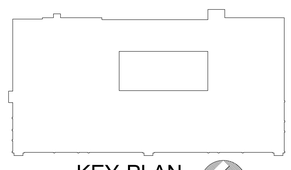
1 SECOND FLOOR PLAN - NEW WORK

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

0 2' 4' 8' 16' 32'

GENERAL WORK NOTES:

1. EC TO PROVIDE AND INSTALL ALL ELECTRICAL DISTRIBUTION PANELS, CB'S, WIRING, AND CONDUIT UNLESS OTHERWISE NOTED.
2. EC TO VERIFY ALL SERVICE VOLTAGES PRIOR TO MODIFICATION OR INSTALLATION OF ELECTRICAL EQUIPMENT.
3. EC SHALL COORDINATE WITH MECHANICAL CONTRACTOR (MC) FOR LOCATION OF EQUIPMENT.
4. MC SHALL PROVIDE AND INSTALL ALL CONTROL, SENSOR, AND SIGNALING WIRE AND CONDUIT BETWEEN EQUIPMENT AND BMS.
5. EC SHALL COORDINATE WITH MC ALL WORK PRIOR TO COMMENCEMENT TO AVOID DUPLICATION OF SERVICE OR CONFLICTS WITH EXISTING SPACES.
6. EC SHALL LABEL ALL NEW WORK, PANELS, AND CIRCUITS TO CLEARLY IDENTIFY EQUIPMENT, LOADS, AND CIRCUIT NUMBERS.
6. MC SHALL FIELD VERIFY DISTANCE FROM EQUIPMENT TO BMS AND MAKE FINAL CONNECTION TO BMS AND PROGRAM IT'S OPERATION.
7. ALL CONDUCTORS AND GROUNDS SHALL BE COPPER UNLESS OTHERWISE SPECIFIED.
8. CONTACT ENGINEERING FOR DISCREPANCIES OR CONFLICTS BETWEEN DRAWINGS, SPECIFICATION, OR SCHEDULES.
9. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
10. PROVIDE FIRESTOP AT ALL INTERIOR WALL AND FLOOR PENETRATIONS. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS TO BE WEATHER TIGHT. SEAL ROOF PENETRATIONS TO BE WEATHER TIGHT AND TO MAINTAIN ROOF WARRANTY.



KEY-PLAN

SCALE: NONE

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YONKERS PUBLIC SCHOOLS
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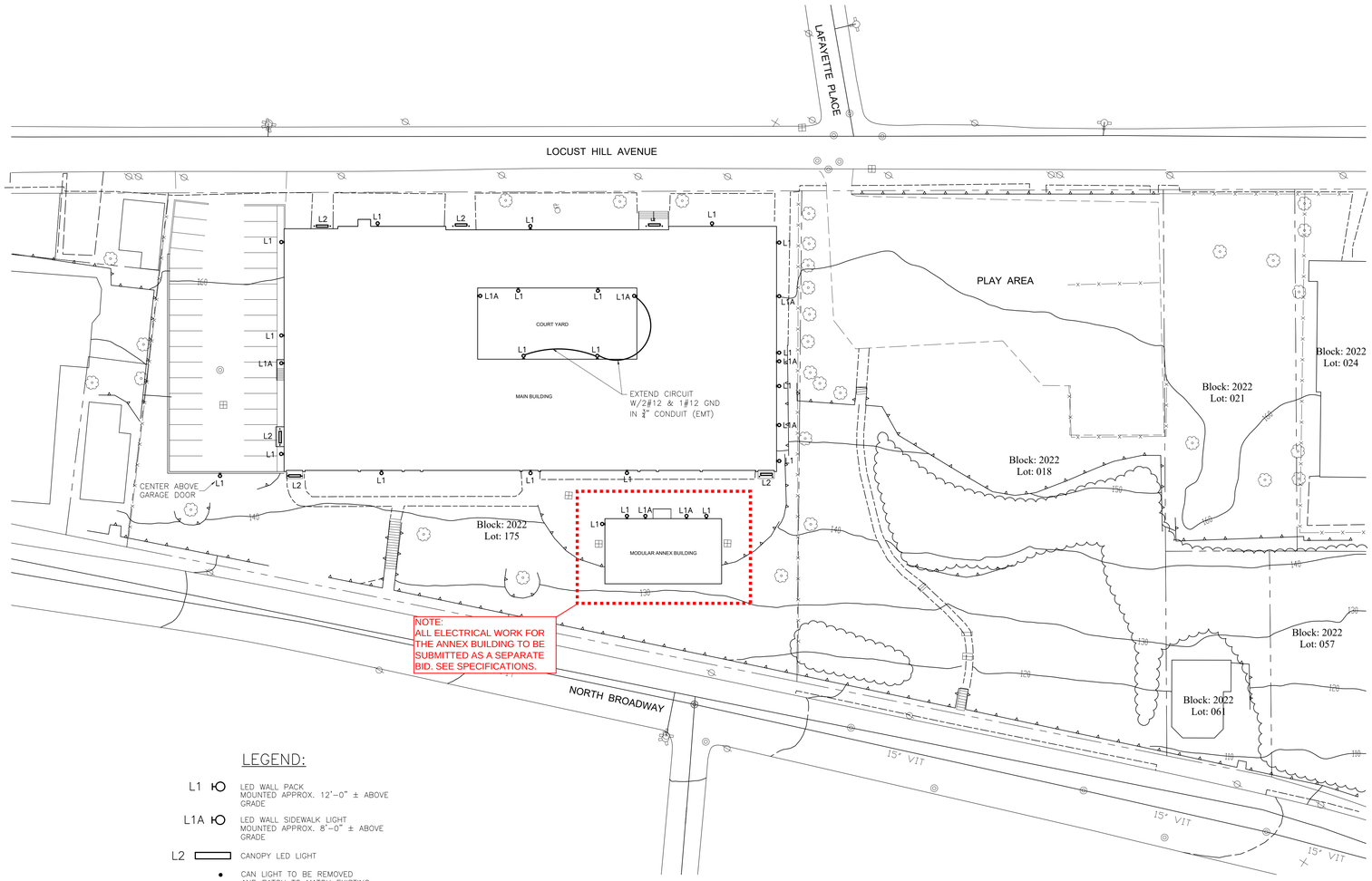
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
SECOND FLOOR PLAN - NEW WORK

SHEET NO.
E-102

FILE PATH - N:\Y – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.Interior\Y19mlk01.E102.dwg



LEGEND:

- L1 — LED WALL PACK MOUNTED APPROX. 12'-0" ± ABOVE GRADE
- L1A — LED WALL SIDEWALK LIGHT MOUNTED APPROX. 8'-0" ± ABOVE GRADE
- L2 — CANOPY LED LIGHT
- • — CAN LIGHT TO BE REMOVED AND PATCH TO MATCH EXISTING

1 SITE PLAN - LIGHTING

SCALE: 1/32"=1'-0"

0 2' 4' 8' 16' 32'

KEYED NOTES – NEW WORK:

1. PROVIDE NEW SITE LIGHTING AS SHOWN. SEE E500 FOR ADDITIONAL INFORMATION.

GENERAL WORK NOTES:

1. EC TO PROVIDE AND INSTALL ALL ELECTRICAL DISTRIBUTION PANELS, CB'S, WIRING, AND CONDUIT UNLESS OTHERWISE NOTED.
2. EC TO VERIFY ALL SERVICE VOLTAGES PRIOR TO MODIFICATION OR INSTALLATION OF ELECTRICAL EQUIPMENT.
3. EC SHALL COORDINATE WITH MECHANICAL CONTRACTOR (MC) FOR LOCATION OF EQUIPMENT.
4. MC SHALL PROVIDE AND INSTALL ALL CONTROL, SENSOR, AND SIGNALING WIRE AND CONDUIT BETWEEN EQUIPMENT AND BMS.
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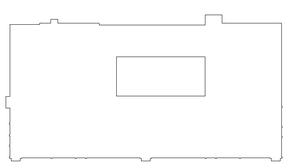
6. EC SHALL LABEL ALL NEW WORK, PANELS, AND CIRCUITS TO CLEARLY IDENTIFY EQUIPMENT, LOADS, AND CIRCUIT NUMBERS.
6. MC SHALL FIELD VERIFY DISTANCE FROM EQUIPMENT TO BMS AND MAKE FINAL CONNECTION TO BMS AND PROGRAM IT'S OPERATION.
7. ALL CONDUCTORS AND GROUNDS SHALL BE COPPER UNLESS OTHERWISE SPECIFIED.
8. CONTACT ENGINEERING FOR DISCREPANCIES OR CONFLICTS BETWEEN DRAWINGS, SPECIFICATION, OR SCHEDULES.
9. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
10. PROVIDE FIRESTOP AT ALL INTERIOR WALL AND FLOOR PENETRATIONS. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS TO BE WEATHER TIGHT. SEAL ROOF PENETRATIONS TO BE WEATHER TIGHT AND TO MAINTAIN ROOF WARRANTY.



KEY-PLAN
SCALE: NONE

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STATE OF NEW YORK — JACK EISENBACH — No. 059445 — LICENSED PROFESSIONAL ENGINEER

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CHECKED BY	JIE
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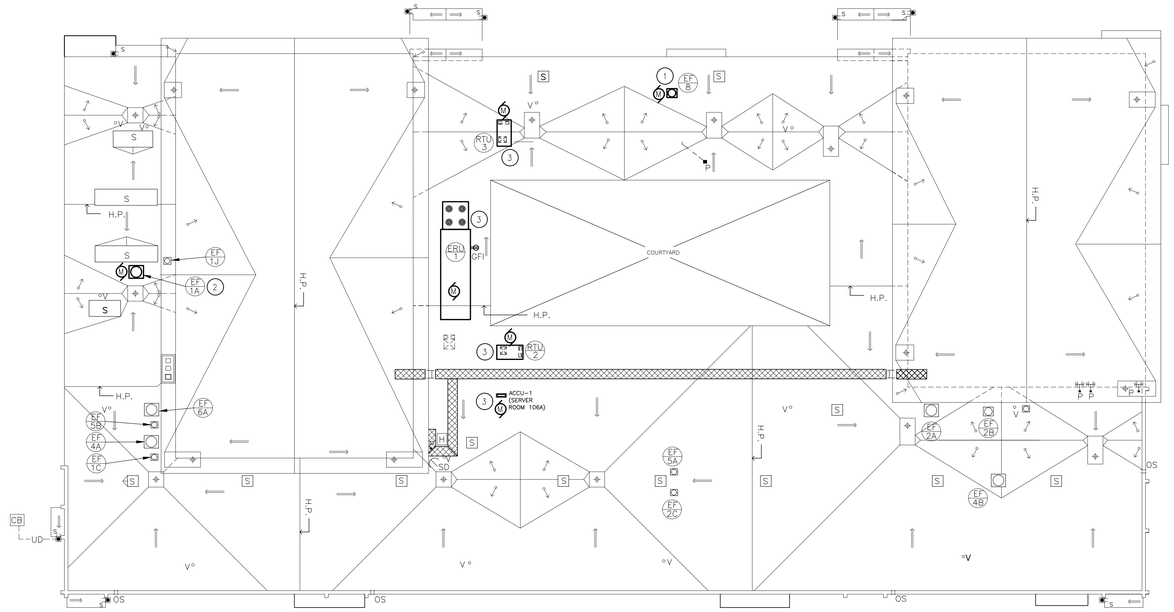
SCALE	AS SHOWN

SHEET TITLE
SITE LIGHTING PLAN

SHEET NO.
E-103

FILE PATH – N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CD#s 10875 YPS MLK\CAD\Part3.Interior\1y19mlk01-e103.dwg



1 ROOF PLAN - NEW WORK
SCALE: 1/16"=1'-0"
0 2' 8' 32'
4' 16'

LEGEND:
(FOR E104 ONLY)

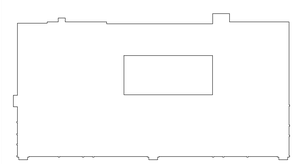
- A — ROOF AREA DESIGNATION
- ROOF DRAIN
- P — SEALANT POCKET
- V — VENT PIPE
- EXISTING EXHAUST FAN
- NEW EXHAUST FAN
- H — ROOF HATCH
- S / S — SKYLIGHTS
- E — EVECO VENTILATORS
- SCUPPER & LEADER
- OS — OVERFLOW SCUPPER
- ROOF LADDER
- AC — AC CONDENSER
- P — ANTENNA
- SD — SATELLITE DISH
- UD — UNDERGROUND DRAIN LINE
- CB — EXISTING CATCH BASIN
- H.P. — INSULATION HIGH POINT
- EXISTING INSULATION SLOPE
- TAPERED ISOCYANURATE INSULATION, SLOPE 1/8" PER FT. SEE R-VALUE CHART FOR MINIMUM THICKNESS
- CRICKET– SLOPE 1/4" PER FT
- WALKWAY PADS

KEYED NOTES – NEW WORK:

1. PROVIDE WIRING AND CONDUIT CONDUIT FOR NEW EXHAUST FAN TO THEIR RESPECTIVE PANEL. SEE SCHEDULE ON E500.
2. REUSE EXISTING CIRCUIT FOR NEW EXHAUST FANS. SEE SCHEDULE ON E500
3. PROVIDE WIRING AND CONDUIT FOR NEW ROOFTOP EQUIPMENT. SEE SCHEDULE ON E500. VFD'S (WHEN APPLICABLE) TO BE INTERNALLY MOUNTED FROM THE MANUFACTURER. ALL DISCONNECTING MEANS SHALL BE INSTALLED TO BE NO HIGHER THAN 6'–0" FROM FINISHED ROOF.

GENERAL WORK NOTES:

1. EC TO PROVIDE AND INSTALL ALL ELECTRICAL DISTRIBUTION PANELS, CB'S, WIRING, AND CONDUIT UNLESS OTHERWISE NOTED.
2. EC TO VERIFY ALL SERVICE VOLTAGES PRIOR TO MODIFICATION OR INSTALLATION OF ELECTRICAL EQUIPMENT.
3. EC SHALL COORDINATE WITH MECHANICAL CONTRACTOR (MC) FOR LOCATION OF EQUIPMENT.
4. MC SHALL PROVIDE AND INSTALL ALL CONTROL, SENSOR, AND SIGNALING WIRE AND CONDUIT BETWEEN EQUIPMENT AND BMS.
5. EC SHALL COORDINATE WITH MC ALL WORK PRIOR TO COMMENCEMENT TO AVOID DUPLICATION OF SERVICE OR CONFLICTS WITH EXISTING SPACES.
6. EC SHALL LABEL ALL NEW WORK, PANELS, AND CIRCUITS TO CLEARLY IDENTIFY EQUIPMENT, LOADS, AND CIRCUIT NUMBERS.
6. MC SHALL FIELD VERIFY DISTANCE FROM EQUIPMENT TO BMS AND MAKE FINAL CONNECTION TO BMS AND PROGRAM IT'S OPERATION.
7. ALL CONDUCTORS AND GROUNDS SHALL BE COPPER UNLESS OTHERWISE SPECIFIED.
8. CONTACT ENGINEERING FOR DISCREPANCIES OR CONFLICTS BETWEEN DRAWINGS, SPECIFICATION, OR SCHEDULES.
9. PROVIDE ALL ALTERATIONS, RESTORATIONS, AND REPLACEMENTS NECESSARY TO ACCOMMODATE NEW WORK.
10. PROVIDE FIRESTOP AT ALL INTERIOR WALL AND FLOOR PENETRATIONS. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS TO BE WEATHER TIGHT. SEAL ROOF PENETRATIONS TO BE WEATHER TIGHT AND TO MAINTAIN ROOF WARRANTY.



KEY-PLAN
SCALE: NONE

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ENGINEER STAMP:

STATE OF NEW YORK · JACK EISENBACH · LICENSED PROFESSIONAL ENGINEER · No. 099145

YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ROOF PLAN - NEW WORK

SHEET NO.
E-104

FILE PATH – N:\ – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.Interior\Y19mlk01-e104.dwg

ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

EQUIPMENT							SUPPLY								CONTROLLER DEVICE TYPE & ACCESSORIES (UNO, PROVIDED BY ELECTRICAL CONTRACTOR)					
DESIGNATION	DESCRIPTION	ROOM LOCATION	SIZE			VOLTAGE/ PHASE	PANEL/CONTROL CENTER	CIRCUIT NUMBER	BREAKER SIZE	POWER WIRING FROM PANEL TO CONTROL UNIT		POWER WIRING FROM CONTROL UNIT TO EQUIPMENT		GROUND WIRE (SIZED PER NEC)	CONTROL DEVICE INSTALL LOCATION	FIRE ALARM FAN SHUTDOWN (DSD)	DISCONNECT SWITCH			REF. NOTES
			HP	WATTS	FLA					WIRE	COND.	WIRE	COND.				FRAME	FUSE	LOCATION	
EF-1A	KITCHEN RANGE	ROOF	2	--	6.8	208/3/60	PPMB1B	SEE E501	RE	RE	RE	BUILT-IN	--	RE	AU	YES	30	N/A	BUILT-IN	
EF-1D	KITCHEN TRANSFER	KITCHEN	½	--	9.8	115/1/60	PPMB1B	SEE E501	RE	RE	RE	BUILT-IN	--	RE	AU	YES	30	N/A	BUILT-IN	REVERSE AIR FLOW
EF-1E	KITCHEN TRANSFER	KITCHEN	½	--	9.8	115/1/60	PPMB1B	SEE E501	RE	RE	RE	BUILT-IN	--	RE	AU	YES	30	N/A	BUILT-IN	REVERSE AIR FLOW
EF-1F	KITCHEN TRANSFER	KITCHEN	½	--	9.8	115/1/60	PPMB1B	SEE E501	RE	RE	RE	BUILT-IN	--	RE	AU	YES	30	N/A	BUILT-IN	REVERSE AIR FLOW
EF-1G	KITCHEN TRANSFER	KITCHEN	½	--	9.8	115/1/60	PPMB1B	SEE E501	RE	RE	RE	BUILT-IN	--	RE	AU	YES	30	N/A	BUILT-IN	REVERSE AIR FLOW
EF-1H	KITCHEN STORAGE TRANSFER	KITCH STOR.	1/10	--	4.4	115/1/60	PPMB1B	SEE E501	RE	RE	RE	BUILT-IN	--	RE	AU		30	N/A	BUILT-IN	
EF-8	NURSE EXAM ROOM	EXAM RM 222	¼	--	5.8	115/1/60	RTU PANEL3	SEE E501	20	2-#6	¾"	BUILT-IN	--	1-#12	AU	YES	30	N/A	BUILT-IN	
P-3	BASE MOUNTED PUMP	BOILER RM	1.5	--	7.8	208/3/60	PPMB1B	SEE E501	20 (RE)	3-#12	¾"	BUILT-IN	--	1-#12	AU		30	N/A	BUILT-IN	
P-4	BASE MOUNTED PUMP	BOILER RM	1.5	--	7.8	208/3/60	PPMB1A	9	20 (RE)	3-#12	¾"	BUILT-IN	--	1-#12	AU		30	N/A	BUILT-IN	
WAC-1	WINDOW AIR CONDITIONER	ROOM G03		3846	18.2	230/1/60	WAC PANELG	SEE E501	30	2-#6	¾"	BUILT-IN	--	1-#10						
WAC-2	WINDOW AIR CONDITIONER	ROOM G04		3846	18.2	230/1/60	WAC PANELG	SEE E501	30	2-#6	¾"	BUILT-IN	--	1-#10						
WAC-3	WINDOW AIR CONDITIONER	ROOM G05		3846	18.2	230/1/60	WAC PANELG	SEE E501	30	2-#8	¾"	BUILT-IN	--	1-#10						
WAC-4	WINDOW AIR CONDITIONER	ROOM G06		3846	18.2	230/1/60	WAC PANELG	SEE E501	30	2-#8	¾"	BUILT-IN	--	1-#10						
WAC-5	WINDOW AIR CONDITIONER	ROOM G07		3846	18.2	230/1/60	WAC PANELG	SEE E501	30	2-#10	¾"	BUILT-IN	--	1-#10						
WAC-6	WINDOW AIR CONDITIONER	ROOM G08		3846	18.2	230/1/60	WAC PANELG	SEE E501	30	2-#10	¾"	BUILT-IN	--	1-#10						
WAC-7	WINDOW AIR CONDITIONER	ROOM G09		3846	18.2	230/1/60	WAC PANELG	SEE E501	30	2-#8	¾"	BUILT-IN	--	1-#10						
WAC-8	WINDOW AIR CONDITIONER	ROOM G10		3846	18.2	230/1/60	WAC PANELG	SEE E501	30	2-#6	¾"	BUILT-IN	--	1-#10						
WAC-9	WINDOW AIR CONDITIONER	ROOM 101		3846	18.2	230/1/60	WAC PANEL1	SEE E501	30	2-#6	¾"	BUILT-IN	--	1-#10						
WAC-10	WINDOW AIR CONDITIONER	ROOM 103		3846	18.2	230/1/60	WAC PANEL1	SEE E501	30	2-#6	¾"	BUILT-IN	--	1-#10						
WAC-11	WINDOW AIR CONDITIONER	ROOM 105		3846	18.2	230/1/60	WAC PANEL1	SEE E501	30	2-#8	¾"	BUILT-IN	--	1-#10						
WAC-12	WINDOW AIR CONDITIONER	ROOM 107		3846	18.2	230/1/60	WAC PANEL1	SEE E501	30	2-#8	¾"	BUILT-IN	--	1-#10						
WAC-13	WINDOW AIR CONDITIONER	ROOM 109		3846	18.2	230/1/60	WAC PANEL1	SEE E501	30	2-#10	¾"	BUILT-IN	--	1-#10						
WAC-14	WINDOW AIR CONDITIONER	ROOM 111		3846	18.2	230/1/60	WAC PANEL1	SEE E501	30	2-#10	¾"	BUILT-IN	--	1-#10						
WAC-15	WINDOW AIR CONDITIONER	ROOM 113		3846	18.2	230/1/60	WAC PANEL1	SEE E501	30	2-#8	¾"	BUILT-IN	--	1-#10						
WAC-16	WINDOW AIR CONDITIONER	ROOM 115		3846	18.2	230/1/60	WAC PANEL1	SEE E501	30	2-#6	¾"	BUILT-IN	--	1-#10						
WAC-17	WINDOW AIR CONDITIONER	ROOM 116		3846	18.2	230/1/60	WAC PANEL1	SEE E501	30	2-#6	¾"	BUILT-IN	--	1-#10						
WAC-18	WINDOW AIR CONDITIONER	ROOM 112		2800	13.4	230/1/60	WAC PANEL1	SEE E501	20	2-#8	¾"	BUILT-IN	--	1-#12						
WAC-19	WINDOW AIR CONDITIONER	ROOM 110A		864	8.6	115/1/60	WAC PANEL1	SEE E501	20	2-#10	¾"	BUILT-IN	--	1-#12						
WAC-20	WINDOW AIR CONDITIONER	ROOM 110		864	8.6	115/1/60	WAC PANEL1	SEE E501	20	2-#12	¾"	BUILT-IN	--	1-#12						
WAC-21	WINDOW AIR CONDITIONER	ROOM 108		2800	13.4	230/1/60	WAC PANEL1	SEE E501	20	2-#6	¾"	BUILT-IN	--	1-#12						
WAC-22	WINDOW AIR CONDITIONER	ROOM 106		3846	18.2	230/1/60	WAC PANEL1	SEE E501	30	2-#6	¾"	BUILT-IN	--	1-#10						
WAC-23	WINDOW AIR CONDITIONER	ROOM 104		3846	18.2	230/1/60	WAC PANEL1	SEE E501	30	2-#6	¾"	BUILT-IN	--	1-#10						
WAC-24	WINDOW AIR CONDITIONER	ROOM 203		3846	18.2	230/1/60	WAC PANEL2	SEE E501	30	2-#6	¾"	BUILT-IN	--	1-#10						
WAC-25	WINDOW AIR CONDITIONER	ROOM 205		3846	18.2	230/1/60	WAC PANEL2	SEE E501	30	2-#6	¾"	BUILT-IN	--	1-#10						
WAC-26	WINDOW AIR CONDITIONER	ROOM 207		3846	18.2	230/1/60	WAC PANEL2	SEE E501	30	2-#8	¾"	BUILT-IN	--	1-#10						
WAC-27	WINDOW AIR CONDITIONER	ROOM 209		3846	18.2	230/1/60	WAC PANEL2	SEE E501	30	2-#8	¾"	BUILT-IN	--	1-#10						
WAC-28	WINDOW AIR CONDITIONER	ROOM 211		3846	18.2	230/1/60	WAC PANEL2	SEE E501	30	2-#10	¾"	BUILT-IN	--	1-#10						
WAC-29	WINDOW AIR CONDITIONER	ROOM 213		3846	18.2	230/1/60	WAC PANEL2	SEE E501	30	2-#10	¾"	BUILT-IN	--	1-#10						
WAC-30	WINDOW AIR CONDITIONER	ROOM 215		3846	18.2	230/1/60	WAC PANEL2	SEE E501	30	2-#8	¾"	BUILT-IN	--	1-#10						
WAC-31	WINDOW AIR CONDITIONER	ROOM 216		3846	18.2	230/1/60	WAC PANEL2	SEE E501	30	2-#6	¾"	BUILT-IN	--	1-#10						
WAC-32	WINDOW AIR CONDITIONER	ROOM 231		492	4.8	115/1/60	WAC PANEL2	SEE E501	15	2-#8	¾"	BUILT-IN	--	1-#12						
WAC-33	WINDOW AIR CONDITIONER	ROOM 210B		492	4.8	115/1/60	WAC PANEL2	SEE E501	15	2-#10	¾"	BUILT-IN	--	1-#12						
WAC-34	WINDOW AIR CONDITIONER	ROOM 210		1140	10.9	115/1/60	WAC PANEL2	SEE E501	20	2-#10	¾"	BUILT-IN	--	1-#12						
WAC-35	WINDOW AIR CONDITIONER	ROOM 210		1140	10.9	115/1/60	WAC PANEL2	SEE E501	20	2-#8	¾"	BUILT-IN	--	1-#12						
WAC-36	WINDOW AIR CONDITIONER	ROOM 210		1140	10.9	115/1/60	WAC PANEL2	SEE E501	20	2-#8	¾"	BUILT-IN	--	1-#12						
WAC-37	WINDOW AIR CONDITIONER	ROOM 210		1140	10.9	115/1/60	WAC PANEL2	SEE E501	20	2-#6	¾"	BUILT-IN	--	1-#12						
ERU-1	ROOF TOP UNIT	ROOF	2@1/10	--	185	208/3/60	RTU PANEL3	SEE E501	250	4-350MCM	3"	BUILT-IN	--	1-#4	AU	YES	400	N/A	BUILT-IN	NOTE 4
RTU-2	ROOF TOP UNIT	ROOF	1	--	4.0	208/3/60	RTU PANEL3	SEE E501	15	4-#12	¾"	BUILT-IN	--	1-#12	AU	YES	30	N/A	BUILT-IN	
RTU-3	ROOF TOP UNIT	ROOF	1	--	27	208/3/60	RTU PANEL3	SEE E501	45	4-#6	1"	BUILT-IN	--	1-#10	AU	YES	30	N/A	BUILT-IN	
AC-1	MINI SPLIT (SOURCE: ACCU-1)	SERVER RM 106A	1/3	--	6.65	230/1/60	ACCU-1	--	--	3-#12	½"	BUILT-IN	--	1-#12	AU		30	N/A	BUILT-IN	WIRED FROM ACCU-1
ACCU-1	CONDENSER (ON ROOF)	ROOF	3	--	23.3	230/1/60	RTU PANEL3	SEE E501	35	3-#10	¾"	BUILT-IN	--	1-#10	AU		30	N/A	BUILT-IN	

(E)-EXISTING EQUIPMENT
AU- AT UNIT (NEW)
N/A- NOT APPLICABLE
RE- REUSE EXISTING
DSD- DUCT SMOKE DETECTOR

GENERAL NOTES (FOR ELECTRIC EQUIPMENT AND CONTROL SCHEDULE:
1. EC SHALL VERIFY ALL MOTOR SIZES BEFORE ORDERING ANY CONTROL DEVICES.
2. ALL CONTROL DEVICES ARE PROVIDED BY ELECTRIC CONTRACTOR UNLESS OTHERWISE NOTED.
3. EC SHALL PROVIDE NEW CIRCUIT BREAKERS FOR EACH EXHAUST FAN CIRCUIT, TYPE AND STYLE TO MATCH EXISTING.
4. PROVIDE GFI OUTLET AT ERU-1 WITH 2-#12 AND 1-#12 GND IN 3/4" CONDUIT TO LOCAL PANEL.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	VOLTAGE/DRIVER	MOUNTING	DESIGN BASIS	ACCEPT. MFR'S.	REMARKS
L1	LED FIXTURE WALL SCONCE	----	MVOLT	WALL	LUMINAIRE BLD36-30W 4000K DIM (BLK)	OR APPROVED EQUAL	
L1A	LED SIDEWALK LIGHT	----	MVOLT	WALL	LUMINAIRE BLD36-15W 4000K DIM (BLK)	OR APPROVED EQUAL	
L2	LED CANOPY LIGHT	----	MVOLT	CEILING	LUMINAIRE VPF44-25W 4000K CP DIM (BLK)	OR APPROVED EQUAL	
L3	LED FLAT PANEL 2'X2'	----	120-277	GRID	WILLIAMS L22-L40-8-40-EM /10WRM	OR APPROVED EQUAL	
L4	LED WALL MOUNTED	----	MVOLT	WALL	LUMINAIRE TSL9-34IN-40W-40K MVOLT-OP-WHT-EMB310	OR APPROVED EQUAL	
L5	LED CEILING	----	MVOLT	CEILING	LUMINAIRE APX13-MIN10-25W -40K-MVOLT-FOP -WHT	OR APPROVED EQUAL	
L6	LED THERMOPLASTIC SIDEWALK LIGHT	----	MVOLT	WALL	LUMINAIRE BLD36-36IN-MIN10 30W-40K-MVOLT-DP-BLK-EMB310-PC	OR APPROVED EQUAL	
L7	LED SURFACE MOUNT	----	MVOLT	CEILING	LITHONIA LIGHTING FEM-L48-6000LM-LPPCL-WD-MVOLT-GZ10 40K-80CRI-E10WMCP	OR APPROVED EQUAL	

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ENGINEER STAMP:

STATE OF NEW YORK JACK EISENBACH No. 059446 LICENSED PROFESSIONAL ENGINEER

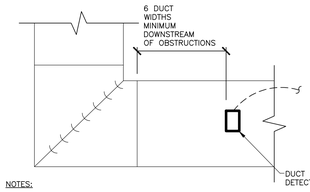
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

SHEET NO.
E-500

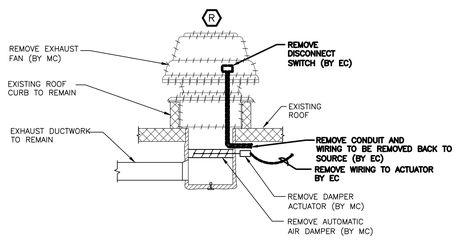
FILE PATH - N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.interior\Y19MLK01-E500.dwg



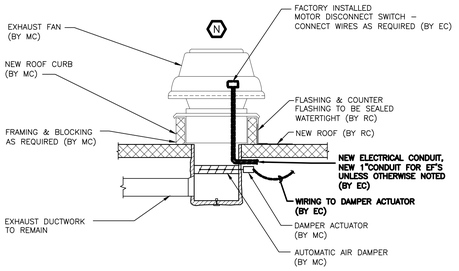
NOTES:

1. DETECTORS SHALL BE FURNISHED/WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR.

3 DUCTWORK SMOKE DETECTOR INSTALLATION
SCALE: NONE



1 ROOF EXHAUST FAN - REMOVALS
SCALE: NONE



2 ROOF EXHAUST FAN - NEW WORK
SCALE: NONE

NEW WORK NOTES:

–PROVIDE NEW CONTROLS AND TIE INTO NEW BMS.

–PROVIDE NEW WIRING AND CONDUIT BACK TO PANEL.

–PROVIDE NEW DUCT SMOKE DETECTORS AND TIE INTO FACP.

–PROVIDE NEW AUTOMATIC AIR DAMPERS AND INTERCONNECT WITH FACP.

LEGEND
(APPLIES ONLY TO E504)

- (R) REMOVE EXHAUST FAN (BY MC) SEE DETAILS 1 & 2 FOR ADDITIONAL INFORMATION
- (N) PROVIDE NEW EF– (BY MC). SEE DETAILS 1 & 2 FOR ADDITIONAL INFORMATION
- (A) ROOF AREA DESIGNATION
- —E— ELECTRICAL CONDUIT
- (#) KEYED NOTES
- (EC) ELECTRICAL CONTRACTOR
- (MC) MECHANICAL CONTRACTOR
- (RC) ROOFING CONTRACTOR
- (CC) CONTROLS CONTRACTOR

PANEL SCHEDULE

PROJECT: MARTIN LUTHER KING SCHOOL
PROJECT NO: CIP#10875 DATE: 5-1-2020 BY: ER

Panel Number **WAC-PANELG** Location GROUND FLOOR
Service: 120 / 208 Volt, 3 Ph. 4 W.
Mains 150 Amp 3 Pole; Circuit Breaker Amp, Pole; Main Lugs Only 150 Amp, 3 Pole
Top X Bottom
Enclosure NEMA 1; X Flush; Surface

NOTES	Ckt.	FOR	lights	recept.	motors	heating	A/C	misc.	C/B P	C/B A	KVA	Ckt.	FOR	lights	recept.	motors	heating	A / C	misc.	C/B P	C/B A	KVA	NOTES
2	1	WINDOW A/C G03							2	30		2	WINDOW A/C G04							2	30		2
	3											4											
2	5	WINDOW A/C G05							2	30		6	WINDOW A/C G06							2	30		2
	7											8											
2	9	WINDOW A/C G07							2	30		10	WINDOW A/C G08							2	30		2
	11											12											
2	13	WINDOW A/C G09							2	30		14	WINDOW A/C G10							2	30		2
	15										0.00	16										0.00	
	17										0.00	18										0.00	
	19										0.00	20										0.00	
	21										0.00	22										0.00	
	23										0.00	24										0.00	
	25										0.00	26										0.00	
	27										0.00	28										0.00	
	29										0.00	30										0.00	
	31										0.00	32										0.00	
	33										0.00	34										0.00	
	35								1	-		36								1	-		
	37	SPACE							1	--	0.00	38	SPACE							1	--	0.00	
	39	SPACE							1	--	0.00	40	SPACE							1	--	0.00	
	41	SPACE							1	--	0.00	42	SPACE							1	--	0.00	

208Y/120V,3 PHASE,4 WIRE 150A MLO, 42 POLE 22KAIC MINIMUM

PANEL SCHEDULE

PROJECT: MARTIN LUTHER KING SCHOOL
PROJECT NO: CIP#10875 DATE: 5-1-2020 BY: ER

Panel Number **WAC PANEL1** Location FIRST FLOOR
Service: 120 / 208 Volt, 3 Ph. 4 W.
Mains 250 Amp 3 Pole; Circuit Breaker Amp, Pole; Main Lugs Only 250 Amp, 3 Pole
Top X Bottom
Enclosure NEMA 1; X Flush; Surface

NOTES	Ckt.	FOR	lights	recept.	motors	heating	A/C	misc.	C/B P	C/B A	KVA	Ckt.	FOR	lights	recept.	motors	heating	A / C	misc.	C/B P	C/B A	KVA	NOTES
2	1	WINDOW A/C RM 101							2	30		2	WINDOW A/C RM 103							2	30		2
	3											4											
2	5	WINDOW A/C RM 105							2	30		6	WINDOW A/C RM 107							2	30		2
	7											8											
2	9	WINDOW A/C RM 109							2	30		10	WINDOW A/C RM 111							2	30		2
	11											12											
2	13	WINDOW A/C RM 113							2	30		14	WINDOW A/C RM 115							2	30		2
	15											16										0.00	
2	17	WINDOW A/C RM 116							2	30		18	WINDOW A/C RM 112							2	20		2
	19											20										0.00	
2	21	WINDOW A/C RM 110A							1	15		22	WINDOW A/C RM 110							1	15		2
	23											24										0.00	
2	25	WINDOW A/C RM 108							2	20		26	WINDOW A/C RM 106							2	30		2
	27											28										0.00	
2	29	WINDOW A/C RM 104							2	30		30										0.00	
	31										0.00	32										0.00	
	33										0.00	34										0.00	
	35								1	-		36								1	-	0.00	
	37	SPACE							1	--	0.00	38	SPACE							1	--	0.00	
	39	SPACE							1	--	0.00	40	SPACE							1	--	0.00	
	41	SPACE							1	--	0.00	42	SPACE							1	--	0.00	

208Y/120V,3 PHASE,4 WIRE 250A MLO, 42 POLE 22KAIC MINIMUM

PANEL SCHEDULE

PROJECT: MARTIN LUTHER KING SCHOOL
PROJECT NO: CIP#10875 DATE: 5-1-2020 BY: ER

Panel Number **WAC PANEL2** Location SECOND FLOOR
Service: 120 / 208 Volt, 3 Ph. 4 W.
Mains 225 Amp 3 Pole; Circuit Breaker Amp, Pole; Main Lugs Only 225 Amp, 3 Pole
Top X Bottom
Enclosure NEMA 1; X Flush; Surface

NOTES	Ckt.	FOR	lights	recept.	motors	heating	A/C	misc.	C/B P	C/B A	KVA	Ckt.	FOR	lights	recept.	motors	heating	A / C	misc.	C/B P	C/B A	KVA	NOTES
2	1	WINDOW A/C RM 203							2	30		2	WINDOW A/C RM 205							2	30		2
	3											4											
2	5	WINDOW A/C RM 207							2	30		6	WINDOW A/C RM 209							2	30		2
	7											8											
2	9	WINDOW A/C RM 211							2	30		10	WINDOW A/C RM 213							2	30		2
	11											12											
2	13	WINDOW A/C RM 215							2	30		14	WINDOW A/C RM 216							2	30		2
	15											16											
2	17	WINDOW A/C RM 231							1	15		18	WINDOW A/C RM 210B							1	15		2
	19											20											
2	21	WINDOW A/C RM 210							2	30		22	WINDOW A/C RM 210							2	30		2
	23											24											
2	25	WINDOW A/C RM 210							2	30		26	WINDOW A/C RM 210							2	30		2
	27										0.00	28										0.00	
	29										0.00	30										0.00	
	31										0.00	32										0.00	
	33										0.00	34										0.00	
	25								1	-		36								1	-	0.00	
	37	SPACE							1	--	0.00	38	SPACE							1	--	0.00	
	39	SPACE							1	--	0.00	40	SPACE							1	--	0.00	
	41	SPACE							1	--	0.00	42	SPACE							1	--	0.00	

208Y/120V,3 PHASE,4 WIRE 225A MLO, 42 POLE 22KAIC MINIMUM

NEW PANEL SCHEDULE

PANEL ID: PP-1 VOLTS/PHASE/WIRE 208Y/120V/3PH/4W PANEL SIZE 1000A MIN SCC 22,000 AIC LOCATION: ELEC ROOM

NOTES	CIR. No.	CIRCUIT DESCRIPTION	BKR.	#	BKR.	CIRCUIT DESCRIPTION	CIR. No.	NOTES
	1			A			2	
2	3	ERU–1	250A	B	250A	WAC PANEL1	4	2
	5			C			6	
	7			A			8	
2	9	WAC PANELG	150A	B	225A	WAC PANEL2	10	2
	11			C			12	
	13			A			14	
2	15	RTU PANEL3	100A	B		SPACE	16	
	17			C			18	
	19			A			20	
	21	SPACE		B		SPACE	22	
	23			C			24	

NOTES:

GENERAL NOTES:
- PANELBOARD BUS RATING 1000 AMPS
- THREE PHASE /208V
- SURFACE MOUNTED 42 POLE

PANEL SCHEDULE

PROJECT: MARTIN LUTHER KING SCHOOL
PROJECT NO: CIP#10875 DATE: 5-1-2020 BY: ER

Panel Number **RTU-PANEL3** Location SECOND FLOOR
Service: 120 / 208 Volt, 3 Ph. 4 W.
Mains 100 Amp 3 Pole; Circuit Breaker Amp, Pole; Main Lugs Only 100 Amp, 3 Pole
Top X Bottom
Enclosure Flush; X Surface

NOTES	Ckt.	FOR	lights	recept.	motors	heating	A/C	misc.	C/B P	C/B A	KVA	Ckt.	FOR	lights	recept.	motors	heating	A / C	misc.	C/B P	C/B A	KVA	NOTES
2	1	RTU 3 (ROOF)					31		3	45		2	RTU 2 (ROOF)					9.0		3	15		2
	3										0.00	4										0.00	
	5										0.00	6										0.00	
2	7	EF 8 (EXAM RM 222)					5.8		1	20		8	ACCU-1 (ROOF)							3	35		2
	9										0.00	10										0.00	
	11										0.00	12										0.00	
	13										0.00	14										0.00	
	15										0.00	16										0.00	
	17										0.00	18										0.00	
	19										0.00	20										0.00	
	21										0.00	22										0.00	
	23										0.00	24										0.00	
	25										0.00	26										0.00	
	27										0.00	28										0.00	
	29										0.00	30										0.00	
	31										0.00	32										0.00	
	33										0.00	34										0.00	
	35								1	-		36								1	-	0.00	
	37	SPACE							1	--	0.00	38	SPACE							1	--	0.00	
	39	SPACE							1	--	0.00	40	SPACE							1	--	0.00	
	41	SPACE							1	--	0.00	42	SPACE							1	--	0.00	

208Y/120V,3 PHASE,4 WIRE 100A MLO, 42 POLE 22KAIC MINIMUM

EXISTING PANEL SCHEDULE

PANEL ID: PPMB1B VOLTS/PHASE/WIRE 208Y/120V/3PH/4W PANEL SIZE 200A LOCATION: ELEC ROOM

NOTES	CIR. No.	CIRCUIT DESCRIPTION	BKR.	#	BKR.	CIRCUIT DESCRIPTION	CIR. No.	NOTES
3	1	EXHAUST FAN 1D	15A	A	30A	SPARE	2	
3	3	EF–1E	15A	B	15A	EF 1 C	4	
	5			C			6	
4	7	SPARE (FORMERLY HV #1)	100A	A		"NEW LP GAR"	8	
	9			B			10	
	11			C			12	
3	13	EF–1A	20A	A	20A	P–3 (FORMER SPARE)	14	3
	15			B			16	
3	17	EF–1F	15A	C	15A	EF 1 H	18	3
3	19	EF–1G	15A	A	15A	EF 1 J	20	
	21	EF–1B	15A	B	15A	EXISTING LOAD	22	

NOTES:

GENERAL NOTES:
- PANELBOARD BUS RATING 200 AMPS
- THREE PHASE /208V
- SURFACE MOUNTED 42 POLE

PANEL SCHEDULE NOTES:
1. REMOVE EXISTING BREAKER AND TURN OVER TO DISTRICT
2. PROVIDE GROUND FAULT TYPE BREAKER. TYPE AND STYLE TO MATCH PANEL.
3. USE PREVIOUSLY INSTALLED BREAKER, VERIFY GROUND FAULT TYPE.
4. DISCONNECT CIRCUIT FROM USE. TURN OFF AND RE–LABEL BREAKER TO "SPARE"

GENERAL NOTES:
- PERMANENTLY LABEL THE PANEL MARK AND CIRCUIT NUMBER ON ALL MECHANICAL EQUIPMENT.
- ALL ELECTRICAL WORK TO BE NEC 2020 COMPLIANT.
- EC SHALL SIZE WIRE FOR ALL BRANCH CIRCUITS TO MEET NEC 2020 REQUIREMENTS.
- FIELD VERIFY ALL BRANCH CIRCUITS FROM RESPECTIVE PANEL TO EQUIPMENT OR FIXTURE FOR NEW WORK, SIZE TO MEET VOLTAGE DROP REQUIREMENTS.

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ENGINEER STAMP:

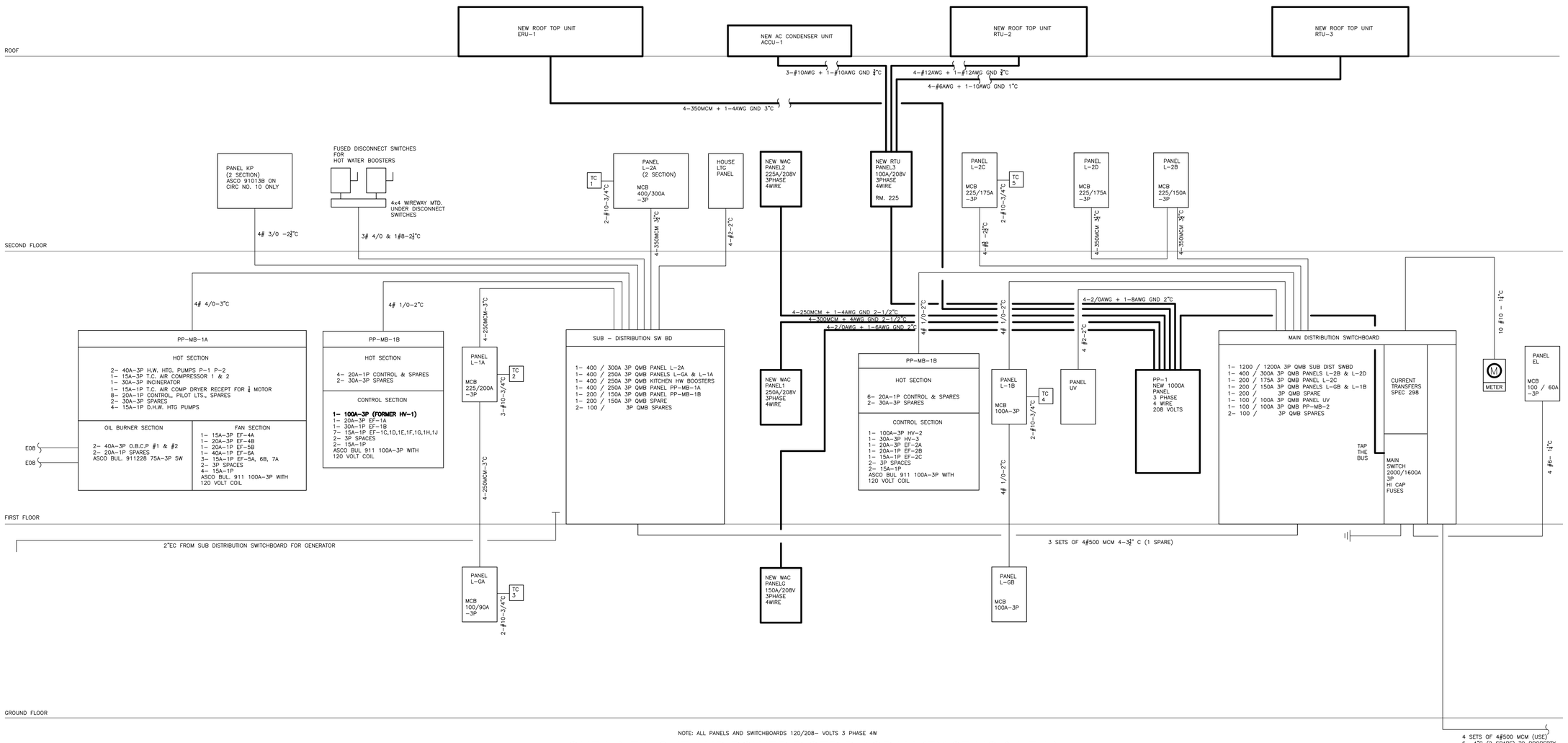
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	**12/07/2023**
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
PANEL SCHEDULES AND DETAILS

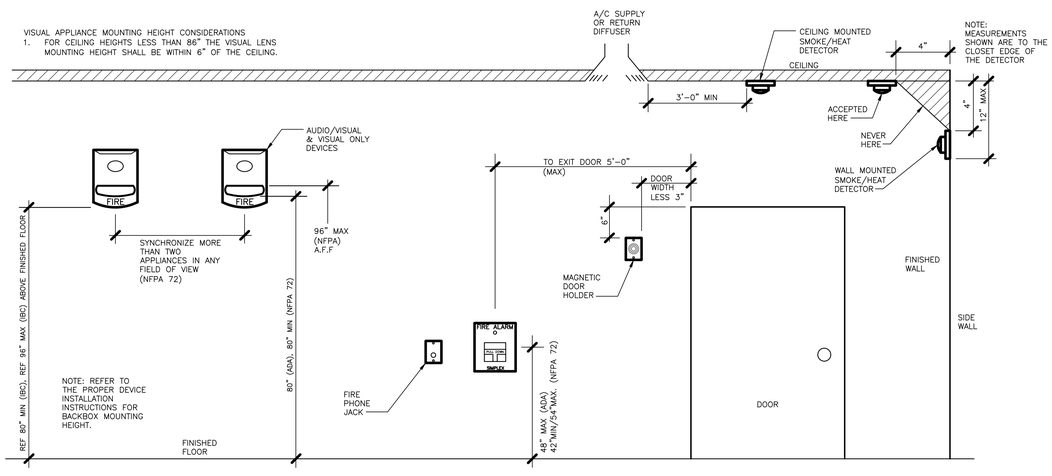
SHEET NO.
E-501

FILE PATH –N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.interior\Y19MLK01-E500.dwg



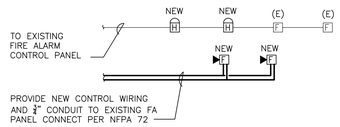
NOTE: ALL PANELS AND SWITCHBOARDS 120/208- VOLTS 3 PHASE 4W

1 ONE LINE LIGHT AND POWER RISER DIAGRAM (EXISTING & NEW)
SCALE: NONE



NOTE: NOT ALL DEVICES MAY BE USED. (SHOWN FOR REFERENCE ONLY)

2 DEVICE LOCATION DETAIL
SCALE: NONE



(NOT ALL DEVICES ARE SHOWN SEE ACTUAL FLOOR PLANS FOR QUANTITIES)

3 PARTIAL FIRE ALARM RISER DIAGRAM
SCALE: NONE

DEVICE/FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	DESIGN BASIS	ACCEPT. MFR'S.
30	AUDIO/VISUAL SIGNALING DEVICE. NUMBER DENOTES CANDELA RATING.	SEE DEVICE LOCATION DETAIL #2 E502	P2RL (RED) (HONEYWELL)	OR APPROVED EQUAL
H	HEAT DETECTOR	SEE DEVICE LOCATION DETAIL #2 E502 & E101	FST-851(A) W/B210LP(A) (HONEYWELL)	OR APPROVED EQUAL
CO	FIRE/CO DETECTOR CARBON MONOXIDE DETECTOR	SEE DEVICE LOCATION DETAIL #2 E502 & E101	FCO-851(A) W/B200S(COA) (HONEYWELL)	OR APPROVED EQUAL
GD	GAS DETECTOR	SEE E101 FOR LOCATION	GDD SERIES GDD-CH4 BY KELE W/ACCESSORIES	OR APPROVED EQUAL
EM	EMERGENCY WALL LIGHT		SURE-LITES SEL50R7WHSD SELF DIAGNOSTIC, ROUND LENSE (WHITE) (COOPER)	OR APPROVED EQUAL

GENERAL NOTES: CANDELA RATINGS SHALL BE BASED ON NFPA 72 TABLE 18.5.5.4.1(a) 2013

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ENGINEER STAMP:

STATE OF NEW YORK — JACK EISENBACH — No. 059445 — LICENSED PROFESSIONAL ENGINEER

YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ONE LINE LIGHT AND POWER RISER DIAGRAM

SHEET NO.
E-502

FILE PATH - N:\ - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.Interior\Y19MLK01 E500.dwg

PLUMBING ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
AD	AREA DRAIN
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION & AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
AWWA	AMERICAN WATERWORKS ASSOCIATION
BFG	BELOW FINISHED GRADE
BHP	BREAK HORSEPOWER
BOR	BASE OF RISER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
C	CELSIUS
CA	COMBUSTION AIR
CA	COMPRESSED AIR
CGA	COMPRESSED GAS ASSOCIATION
CI	CAST IRON
CO	CLEANOUT
CO2	CARBON DIOXIDE
COND	CONDENSATE
CP	CIRCULATING PUMP
CPVC	CHLORINATED POLYVINYL CHLORIDE
CU	COPPER
CW	COLD WATER (DOMESTIC)
D	DRAIN
DIA	DIAMETER
DFU	DRAINAGE FIXTURE UNIT
DN	DOWN
DPCO	DECK PLATE CLEANOUT
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWV	DRAIN WASTE VENT
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
F	FAHRENHEIT
FD	FLOOR DRAIN
FU	FIXTURE UNITS
FV	FLUSH VALVE
G	NATURAL GAS
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H&CW	HOT AND COLD WATER
HB	HOSE BIBB
HC	HEATING & HVAC CONTRACTOR
HD	HUB DRAIN
HP	HORSEPOWER
HS	HAND SINK
HW	HOT WATER (DOMESTIC)
INV	INVERT
IIW	INDIRECT WASTE
IWH	INSTANTANEOUS WATER HEATER
KW	KILOWATT
LAV	LAVATORY
M	METER
MC	MECHANICAL CONTRACTOR
MBH	1000 BTUH
MH	MANHOLE
NC	NORMALLY CLOSED
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NOM	NOMINAL
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
O2	OXYGEN
OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PDI	PLUMBING AND DRAINAGE INSTITUTE
PF	PLUMBING FIXTURE
PG	PRESSURE GAGE
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
RD	ROOF DRAIN
RL	RAIN LEADER
RO	REVERSE OSMOSIS WATER
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
SAN	SANITARY SEWER
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SCFM	STANDARD CUBIC FOOT/MINUTE
SCW	SOFTENED COLD WATER
SP	SUMP PUMP
SQFT	SQUARE FEET
SS	STAINLESS STEEL
ST	STORM SEWER
T&P	TEMPERATURE & PRESSURE (RELIEF VALVE)
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE/TEMPORARY
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TSTAT	THERMOSTAT
TW	TEMPERED WATER
TYP	TYPICAL
UC	UNDERCUT
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UPC	UNIFORM PLUMBING CODE
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTER
WSFU	WATER SUPPLY FIXTURE UNIT
XA	EXHAUST AIR

PLUMBING SYMBOLS

- NEW PIPING AND EQUIPMENT
- EXISTING TO REMAIN PIPING AND EQUIPMENT
- PIPING AND EQUIPMENT FOR REMOVAL
- BALL VALVE
- BALL VALVE (HOSE END & CAP)
- BALANCING VALVE
- CHECK VALVE
- CONTROL VALVE – 2 WAY
- DRAIN VALVE WITH HOSE BIBB
- FLANGED CONNECTION
- FUSIBLE LINK OIL SHUTOFF VALVE
- FCV – FLOW CONTROL VALVE
- GATE VALVE
- GLOBE VALVE
- GAS COCK
- LUBRICATED PLUG VALVE
- PRV – PRESSURE REDUCING VALVE
- RELIEF VALVE
- STRAINER WITH BLOWDOWN
- STRAINER WITH BLOWDOWN
- SOLENOID VALVE
- THREE–WAY CONTROL VALVE
- TRIPLE DUTY GLOBE VALVE
- UNION
- REDUCER OR INCREASER
- BRANCH FROM BOTTOM OF PIPE
- BRANCH FROM TOP OF PIPE
- PIPE ELBOW DN
- PIPE ELBOW UP
- PIPE FLOW ARROW
- BELOW SLAB PIPING
- CW – COLD WATER PIPING
- HW – HOT WATER PIPING
- HWC– HOT WATER RECIRC PIPING
- IW – INDIRECT WASTE PIPING
- SAN – SANITARY PIPING
- D – DRAIN PIPING
- V – VENT PIPING
- G – NATURAL GAS PIPING
- SAN– SANITARY PIPING (BELOW GRADE)
- GAUGE WITH BALL VALVE
- AV – AUTOMATIC AIR VENT
- MV – MANUAL AIR VENT
- THERMOMETER
- BUTTERFLY VALVE
- PIPE CAP
- END OF LINE CLEAN OUT
- HOSE BIBB
- FLOOR DRAIN
- FDC – FLOOR DRAIN WITH P–TRAP
- DECK PLATE CLEAN OUT
- GAS OUTLET
- WATER HAMMER ARRESTOR
- WH – WALL HYDRANT
- VB – VACUUM BREAKER
- INLINE PUMP
- WATER METER
- SUCTION DIFFUSER
- FLEXIBLE CONNECTOR
- PIPE BREAK
- PIPE FLOW ARROW
- REVISION/KEYED NOTE
- KEYED NOTE
- KEYED NOTE
- KEYED NOTE
- POINT OF NEW CONNECTION
- LIMIT OF REMOVAL
- SAW CUT FLOOR

GENERAL PLUMBING NOTES:

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT; HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFICALLY SPECIFIED TO MAKE THE SYSTEMS BEING INSTALLED COMPLETE, CODE COMPLIANT, TESTED AND OPERATIONAL.
2. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
3. ALL MATERIALS, EQUIPMENT, METHODS OF INSTALLATION, REMOVALS AND DISPOSAL SHALL BE IN ACCORDANCE WITH THE STANDARDS, REGULATIONS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES THAT HAVE LAWFUL JURISDICTION.
4. PERFORM WORK, PROVIDE MATERIALS AND EQUIPMENT FOR SYSTEMS SHOWN, SPECIFIED AND DESCRIBED ON DRAWINGS. COMPLETELY COORDINATE ALL TRADES OF THIS CONTRACT AND PROVIDE COMPLETE AND FULLY FUNCTIONAL INSTALLATION. ALL WORK IN THIS SET TO BE COMPLETED UNDER THIS CONTRACT, UNLESS OTHERWISE INDICATED.
5. PROTECT ALL EXISTING AND NEW BUILDING ELEMENTS FROM DAMAGE. CONTRACTOR SHALL RESTORE ALL DAMAGED ELEMENTS TO ORIGINAL OR BETTER CONDITION.
6. WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR APPEARANCE WHEN COMPLETED. MAINTAIN MAXIMUM HEAD ROOM AT ALL TIMES. DO NOT RUN PIPES, DUCTS, AND CONDUIT EXPOSED UNLESS SHOWN AND NOTED TO BE EXPOSED ON DRAWINGS.
7. MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN MANUFACTURER'S EQUIPMENT CLEARANCES.
8. CONTRACTOR IS RESPONSIBLE FOR ALL WORK RELATED TO ISOLATING, SHUTTING DOWN, DRAINING, FILLING AND TESTING SYSTEMS TO ALLOW FOR COMPLETION OF WORK. INTERRUPTIONS TO EXISTING SERVICES AND SYSTEMS SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AND DURATION APPROVED BY THE OWNER AND UTILITY AS APPLICABLE. INCLUDE ALL PREMIUM TIME ASSOCIATED WITH INTERRUPTIONS. ALL SYSTEM INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER, UTILITY AND COORDINATED WITH OTHER TRADE WORK.
9. ALL EQUIPMENT PIPING, WIRING, INSULATION ETC. INSTALLED IN HVAC AIR PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
10. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS AND FLOORS WITH UL RATED MATERIALS/METHODS EQUIVALENT TO FIRE RATING OF ASSEMBLY.
11. PROVIDE PROPER ACCESS TO EQUIPMENT THAT REQUIRES INSPECTION, REPLACEMENT OR REPAIR. ACCESS PANELS/DOORS SHALL BE A MINIMUM OF 12"X12", UNLESS OTHERWISE NOTED.
12. DO NOT SUPPORT EQUIPMENT FROM SUSPENDED CEILINGS. ALL SUPPORT SHALL BE FROM BUILDING STRUCTURE OR FROM CEILING SUSPENSION SYSTEM WHICH HAS BEEN REINFORCED. SUPPORTS SHALL BE SELECTED AND INSTALLED TO PROVIDE A VIBRATION FREE INSTALLATION.
13. PLUMBING CONTRACTOR IS RESPONSIBLE FOR JETTING/SNAKING ALL SANITARY WASTE LINES (ALL FLOOR DRAINS) SHOWN ON THE DRAWINGS TO BE FULLY OPERATIONAL.
14. CLEANING DURING PLUMBING WORK: THE MECHANICAL ROOM AND ROOMS WHERE WORK WILL BE DONE TO MINIMIZE DISTURBANCE IN THE BUILDINGS. WORKERS ARE TO USE PATHWAYS AND FACILITIES AGREED UPON WITH THE DISTRICT DESIGNEE IN WRITING. THE AREA OUTSIDE THE BUILDING WHERE CUTTING, WELDING OR STORAGE IS ALLOWED IS TO BE FENCED AT ALL TIMES. THE CONTRACTOR WILL ON A DAILY BASIS CLEAN THE GROUNDS AND THE BUILDING OF ANY DEBRIS OR GARBAGE GENERATED BY THEIR WORK.

DAMAGE TO WALLS AND/OR CEILINGS DURING YOUR SCHEDULED WORK

1. CONTRACTORS NOT TO DAMAGE EXISTING WALLS THAT ARE TO REMAIN. THIS INCLUDES WALLS WHERE ONLY A PORTION OR SIDE OF THE WALL IS TO REMAIN AND THE OTHER SIDE OF WALLS IS TO BE MODIFIED OR REPLACED. CONTRACTOR IS RESPONSIBLE FOR REPAIR TO DAMAGE WALLS AND TO ANY PORTION OF WALLS THAT ARE EXISTING TO REMAIN, EVEN IF NOT SPECIFICALLY MARKED AS SUCH.
2. CONTRACTOR IS RESPONSIBLE FOR REPAIR TO DAMAGE CEILINGS AND TO ANY PORTION OF CEILINGS THAT ARE EXISTING TO REMAIN, EVEN IF NOT SPECIFICALLY MARKED AS SUCH

CONTRACTORS' COORDINATION NOTE:

ALL CONTRACTORS ARE REQUIRED TO REVIEW THE CONTRACT DRAWINGS FOR ALL TRADES AND DETERMINE NECESSARY COORDINATION BETWEEN TRADES PRIOR TO BIDDING. ANY DISCREPANCIES, COMMENTS, OR QUESTIONS ARE TO BE SUBMITTED TO THE ENGINEER BY RFI.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER TO ALTER ANY ITEM ON THIS PLAN IN ANY WAY. IF ANY ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE PLAN ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND SEAL. COPYRIGHT © 2019

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ENGINEER STAMP:

STATE OF NEW YORK · JACK EISENBACH · LICENSED PROFESSIONAL ENGINEER · NO. 059445

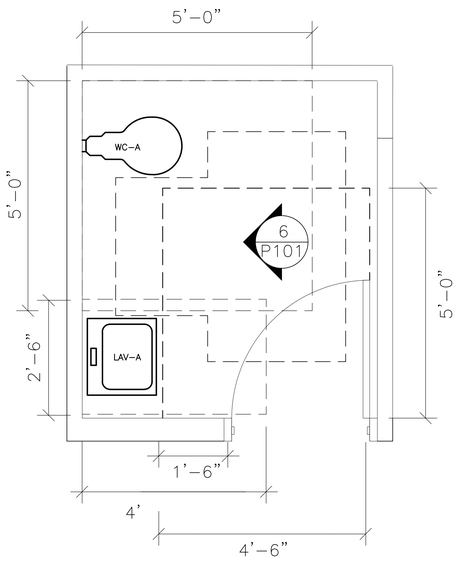
YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF HEATING PLANT, WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	12/07/2023
REVISION	DATE
DRAWN BY	
CHECKED BY	JIE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
ABBREVIATIONS AND SYMBOLS

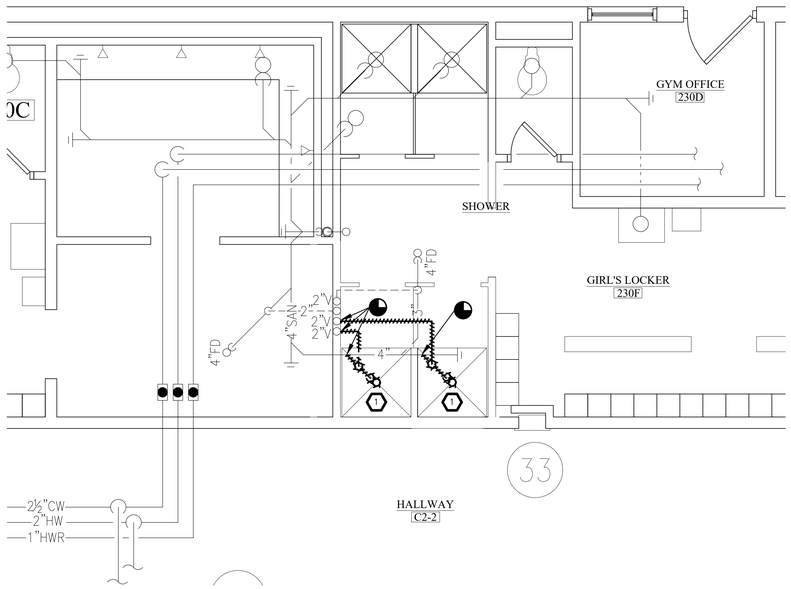
SHEET NO.
P-001

FILE PATH – N:\ – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK\CAD\Part3.Interior\y19mlk01_p001.dwg

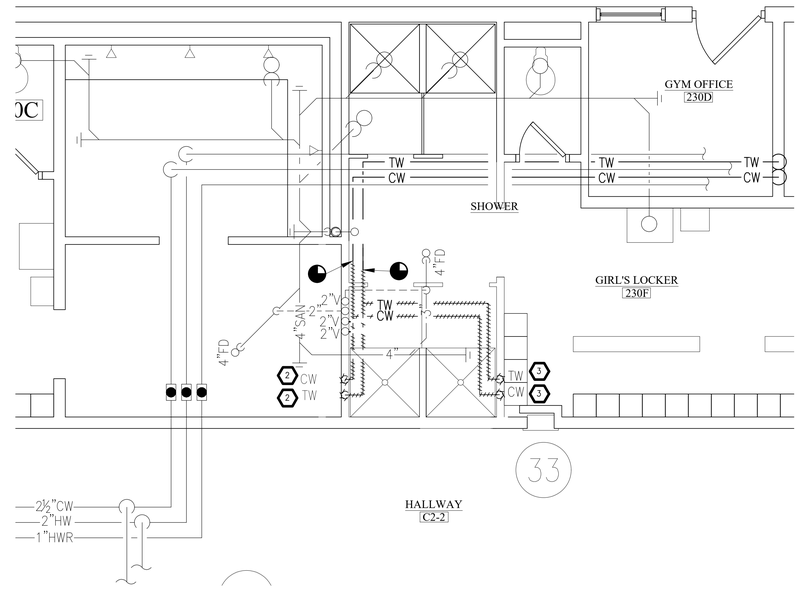


3 NEW BATHROOM DETAIL ADA GUIDELINES
SCALE: 3/4"=1'-0"

NOTE: MEASUREMENTS PROVIDED ARE FOR REFERENCE ONLY AND ARE EITHER APPROXIMATED OR ADAPTED FROM ADA 2010 STANDARDS. CONTRACTORS SHALL VERIFY MEASUREMENTS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL SPECIFY DISCREPANCIES TO THE ENGINEER IN WRITING.



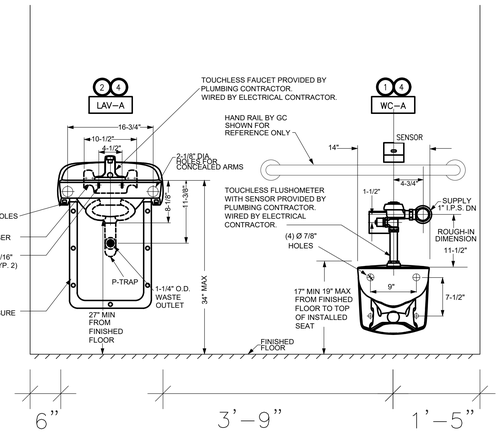
2 FIRST FLOOR NEW BATHROOM - DEMOLITION
SCALE: 3/8"=1'-0"



1 SECOND FLOOR NEW BATHROOM - DEMOLITION
SCALE: 3/8"=1'-0"

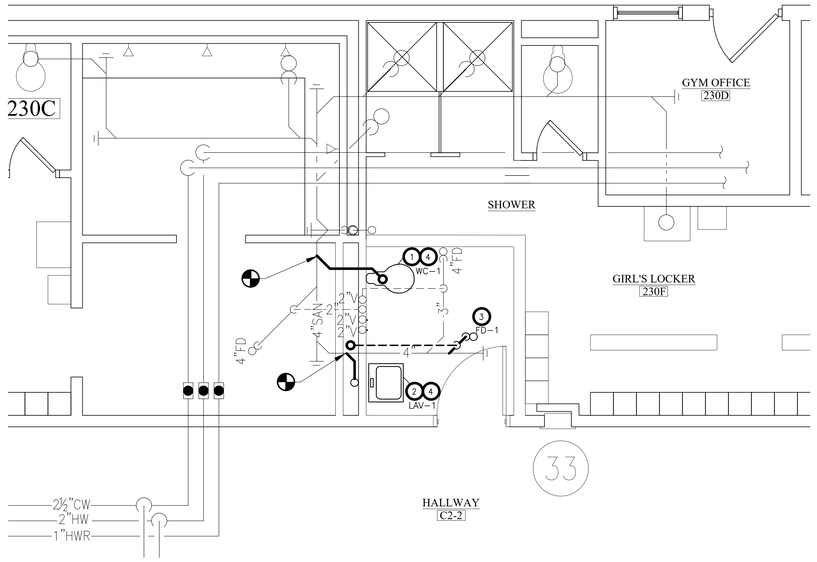
KEYED NOTES – REMOVALS:

1. REMOVE EXISTING FLOOR DRAINS BACK TO MAIN SANITARY LINE. CAP AND SEAL AT THE MAIN SANITARY LINE TO PREVENT ANY LEAKS. VERIFY EXACT LOCATION AND SIZE IN FIELD. REMOVE ADDITIONAL EXISTING FLOOR DRAINS IN THE SHOWER AREA THAT WILL INTERFERE WITH WORK INDICATED ON A103 AND A104. FIELD VERIFY.
2. REMOVE SHOWER HEAD, SHOWER CONTROLS, AND A PORTION OF TW AND CW LINES TO REUSE LINES IN NEW WORK. REFER TO NEW WORK BEFORE STARTING DEMO. VERIFY PIPE LOCATIONS AND MEASUREMENTS IN FIELD AND REPORT DISCREPANCIES TO ENGINEER.
3. REMOVE SHOWER HEAD, SHOWER CONTROLS, AND A PORTION OF TW AND CW LINES AND CAP AND SEAL.
4. COORDINATE REMOVALS WITH GC AND MECH CONTRACTORS AS PLUMBING DEMO SHOULD OCCUR BEFORE NEW MATERIALS ARE INSTALLED BY THESE CONTRACTORS.

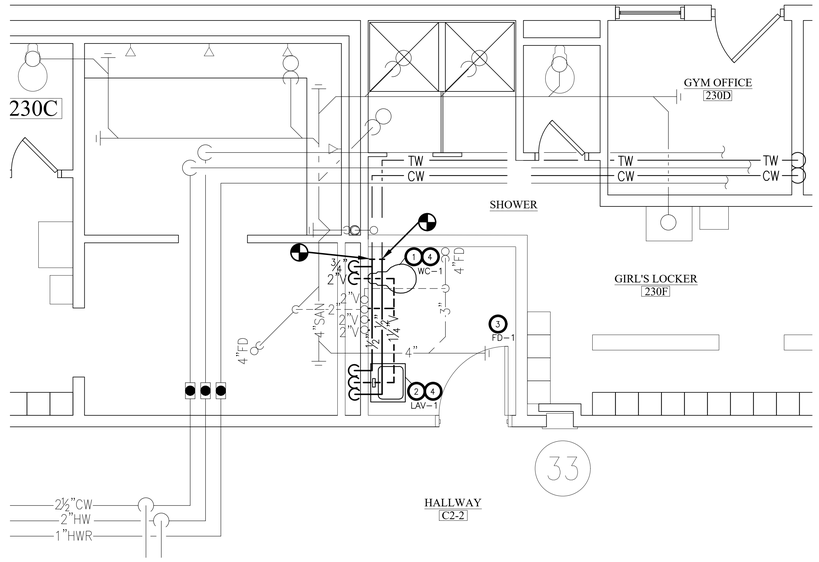


6 NEW BATHROOM ELEVATION
SCALE: NONE

NOTE: MEASUREMENTS PROVIDED ARE FOR REFERENCE ONLY AND ARE EITHER APPROXIMATED, ADAPTED FROM ADA 2010 STANDARDS, OR PROVIDED BY THE MANUFACTURER. CONTRACTORS SHALL VERIFY MEASUREMENTS AND CONDITIONS BEFORE BEGINNING WORK AND SHALL SPECIFY DISCREPANCIES TO THE ENGINEER IN WRITING.



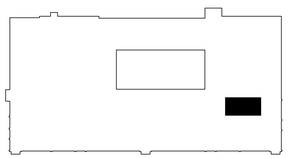
5 FIRST FLOOR NEW BATHROOM - NEW WORK
SCALE: 3/8"=1'-0"



4 SECOND FLOOR NEW BATHROOM - NEW WORK
SCALE: 3/8"=1'-0"

KEYED NOTES – NEW WORK:

1. PROVIDE WALL MOUNTED WATER CLOSET WC-A, TOUCHLESS FLUSHOMETER, SEAT, AND ASSOCIATED TO COMPLY WITH ADA 2010 STANDARDS. VERIFY MEASUREMENTS IN FIELD. CONNECT TO EXISTING CW LINE AND SANITARY LINE. PROVIDE NEW CARRIER. COORDINATE BLOCKING WITH GC. SEE P-500, A-103, AND A-104 FOR MORE INFORMATION.
2. PROVIDE LAVATORY LAV-A, TOUCHLESS FAUCET, P-TRAP, ENCLOSURE AND ASSOCIATED TO COMPLY WITH ADA 2010 STANDARDS. VERIFY MEASUREMENTS IN FIELD. CONNECT TO EXISTING TW LINE, CW LINE, AND SANITARY LINE. PROVIDE NEW CARRIER. COORDINATE BLOCKING WITH GC. SEE P-500, A-103, AND A-104 FOR MORE INFORMATION.
3. PROVIDE NEW FLOOR DRAIN WITH TRAP GUARD BY PROVENT SYSTEMS. PROVIDE WITH CLEAN-OUT ACCESS AND TIE INTO EXISTING SANITARY LINE. SEE P-500, A-103, AND A-104 FOR MORE INFORMATION.
4. PROVIDE WATER SHUT OFFS WITH REMOVABLE HANDLES FOR WC-A AND LAV-A. PROVIDE WATER HAMMER ARRESTORS AND SUPPORT AS NECESSARY. PROVIDE FIRE STOPPING AT WALL PENETRATIONS. EXAMINE NEW AND EXISTING PIPING AND SEAL TO PROTECT AGAINST LEAKS. PROVIDE PIPING AND ASSOCIATED NEEDED TO ROUTE AND CONNECT NEW FIXTURES TO EXISTING PIPING AND VENTS. COORDINATE WITH ELECTRICAL DRAWINGS.



KEY-PLAN
SCALE: NONE

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YONKERS PUBLIC SCHOOLS
ROOF REPLACEMENT AND SELECT INTERIOR UPGRADES - PART 3 OF ROOF REPLACEMENT & INTERIOR UPGRADES
WINDOW REPLACEMENT & INTERIOR UPGRADES
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-23-00-01-0-233-009 (MAIN BUILDING)
S.E.D.# 66-23-00-01-0-322-002 (ANNEX BUILDING)

E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
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REVISION	DATE
DRAWN BY	
CHECKED BY	JJE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
PARTIAL SECOND FLOOR PLAN - DEMOLITION AND NEW WORK

SHEET NO.
P-101

FILE Path - N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 DIR# 10875 YPS MLK\CAD\Part3.Interior\y19mlk01_p101.dwg

FIXTURE AND EQUIPMENT CONNECTION SCHEDULE

DESIGNATION	DESCRIPTION	COLD WATER	HOT WATER	WASTE OR SANITARY	VENT	CARRIERS & ACCESSORIES	NOTES
WC–A	WATER CLOSET	3/4"	––	4"	2"	YES	NOTES 1,4,5
LAV–A	LAVATORY	1/2"	1/2"	1–1/4"	1–1/4"	YES	NOTES 2,4,5
FD–A	FLOOR DRAIN	––	––	3"	2"		NOTE 3,5

NOTES:
1. WALL MOUNTED WATER CLOSET AMERICAN STANDARD AFWALL 3351.101 WITH 5901.110 SEAT AND SLOAN ROYAL 111 ESS–1.6–HW–OR HANDS–FREE FLUSHOMETER INSTALLED PER ADA 2010 STANDARDS.
2. WALL MOUNTED LUCERNE LAVATORY AMERICAN STANDARD 0355.012, AMERICAN STANDARD TOUCHLESS FAUCET 605B.205 WITH PK00.HAC POWER KIT AND MIXING VALVE 605XTMV1070. PROVIDE STAINLESS STEEL BRASSCRAFT FLEXIBLE SUPPLIES CW, TW, AND SHUT–OFF VALVES WITH REMOVABLE HANDLES. PROVIDE CHINA WHITE TRUEBRO LAV SHIELD ENCLOSURE 2018–AS–L1. LAVATORY AND ENCLOSURE MUST BE BARRIER FREE FOR WHEELCHAIRS AND INSTALLED PER ADA 2010 STANDARDS.
3. FLOOR DRAIN JR SMITH 2010–B WITH TRAP GUARD BY PROVENT SYSTEMS
4. PLUMBING FIXTURES TO BE PROVIDED WITH SHUT–OFF VALVES.
5. COORDINATE WITH AND REFER TO DRAWINGS A–103, A–104, AND E–102 FOR MORE INFORMATION.

INSULATION SCHEDULE

TYPE	EQUIPMENT OR SYSTEM SERVED	INSULATION CLASS (a)			JACKETING CLASS (b)			THICKNESS (IN) NOMINAL PIPE SIZE (IN)				
		INTERIOR CONCEALED	INTERIOR EXPOSED	EXTERIOR	INTERIOR GENERAL	EQUIPMENT ROOMS	EXTERIOR	<1"	1"–<1½"	1½"– <4"	4 "– <8"	≥8 & UP
A	DCW, COOLING COIL CONDENSATE	FE	– –	– –	0	– –	– –	0.5	0.5	1.0	1.0	1.0
		– –	FE	– –	– –	0	– –	0.5	0.5	1.0	1.0	1.0
B	DHW/ DHWR	FG	– –	– –	1	– –	– –	1.5	1.5	2	2	2
		– –	FG	– –	– –	1	– –	1.5	1.5	2	2	2
C	IW, SAN, CW EXTERIOR	– –	– –	– –		– –	– –					
		– –	– –	FG	– –	– –	2	1.5	1.5	1.5	1.5	1.5

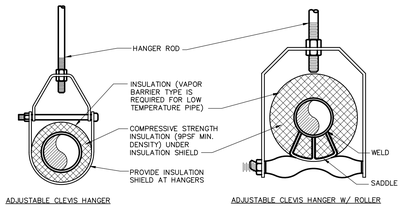
(a) FG – – FIBROUS GLASS
FE – – FLEXIBLE ELASTOMERIC
UR – – URETHANE
CS – – CALCIUM SILICATE
FR – – FIRE RATED

(b) 0 – – NONE
1 – – ALL SERVICE
2 – – POLYVINYL CHLORIDE
3 – – CANVAS
4 – – POLYVINYL CHLORIDE

(d) BLANKET

(e) RIGID BOARD

ALL INSULATION TO COMPLY WITH 2015 NYS ENERGY CONSERVATION CONSTRUCTION CODE

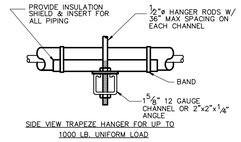


ADJUSTABLE CLEVIS HANGER

ADJUSTABLE CLEVIS HANGER W/ ROLLER

MAXIMUM PIPE/TUBING SUPPORT SPACING								
SIZE IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
PIPE FT.	6	6	6	6	6	6	6	6
TUBING FT.	6	6	6	6	6	6	6	6

NOTE:
1. FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

2 PIPE SUPPORT DETAIL
SCALE: NONE

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ENGINEER STAMP:

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E&R PROJECT NO.	Y19MLK01
YPS NO.	10875
BID SET	**12/07/2023**
REVISION	DATE
DRAWN BY	
CHECKED BY	JE
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
SCHEDULES AND DETAILS

SHEET NO.
P-500

FILE PATH –N:\1 – PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 DIR# 10875 YPS MLK\CAD\Part3.Interior\y19mlk01p500.dwg

MARTIN LUTHER KING Jr. ACADEMY

135 LOCUST HILL AVE
YONKERS, NY 10701

SECURITY UPDATE PROJECT

SECURITY DRAWING LIST

SE-000 COVER SHEET / LEGEND & INDEX

FLOOR PLANS

SE-100 SECURITY UPDATE PROJECT - SITE
SE-101 SECURITY UPDATE PROJECT - FIRST FLOOR
SE-102 SECURITY UPDATE PROJECT - SECOND FLOOR
SE-103 SECURITY UPDATE PROJECT - THIRD FLOOR
SE-104 SECURITY UPDATE PROJECT - FOURTH FLOOR

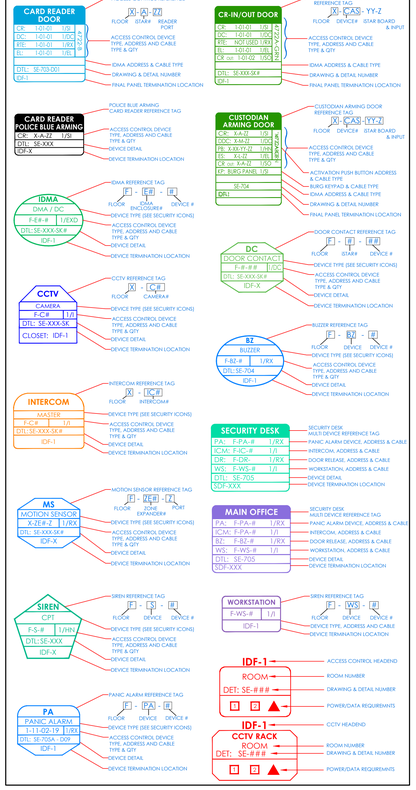
CLOSET DETAILS

SE-300 CLOSET ELEVATIONS - IDF-1 / IDF-2 / IDF-4
SE-301 CLOSET ELEVATIONS - MDF
SE-302 CLOSET ELEVATIONS - IDF-3
SE-303 CCTV ONE LINE DIAGRAM

TYPICALS

SE-701 BURGLAR & ACCESS OVERALL SYSTEMS INTERFACES - ONE LINE
SE-702A ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ MOTION REX - LSP
SE-702B ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ BUILT-IN REX - LSP
SE-703 SECURITY EQUIPMENT DETAIL 1- (DOOR TYPICALS)
SE-703A SECURITY EQUIPMENT DETAIL 1A- (DOOR TYPICALS)
SE-703B SECURITY EQUIPMENT DETAIL 1B- (DOOR TYPICALS)
SE-704 SECURITY EQUIPMENT DETAIL 2- (ACCESS DEVICE TYPICALS)
SE-705 SECURITY EQUIPMENT DETAIL 3- (ILDA DEVICE TYPICALS)
SE-705A SECURITY EQUIPMENT DETAIL 4- (BURG DEVICE TYPICALS)
SE-706 SECURITY EQUIPMENT DETAIL 5- (CCTV TYPICALS)

REFERENCE DEVICE ATTRIBUTE LEGEND



GENERAL NOTES

1. DRAWINGS AND DIVISION 28 DEFINITIONS: YOU ARE THE SECURITY ELECTRICAL CONTRACTOR ("SEC") AKA "CONTRACTOR". THE BASE BUILDING ELECTRICAL CONTRACTOR IS KNOWN AS "EC". OTHER THAN OWNER PROVIDED ELECTRONIC CONTROLLERS AND EQUIPMENT, ALL OTHER SECURITY SYSTEM INSTALLATION WORK IS PART OF YOUR WORK. ALL ITEMS MENTIONED IN THE DIVISION 28 SPECIFICATIONS ARE ALSO PART OF THIS PACKAGE AND INCLUDED IN YOUR SCOPE OF WORK AS WELL.
2. GENERAL NOTES SHALL APPLY TO ALL DRAWINGS.
3. WORK TO COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, NEC, OSHA, AND OTHERS.
4. THE SEC SHALL BE RESPONSIBLE FOR SCHEDULING WITH BUILDING MANAGEMENT THE USE OF ELEVATOR OR OTHER HOISTING FACILITIES FOR HANDLING THE DELIVERY OF MATERIALS.
5. FIRE STOPPING OF ALL PENETRATIONS SHALL BE PROVIDED BY THE INSTALLING SEC AS REQUIRED BY CODE.
6. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND FINAL SYSTEM CONDUITS AND CONDUCTOR LAYOUTS SHALL BE PROVIDED BY THE SEC IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED EQUIPMENT, CONDUIT, AND WIRING SHOP DRAWINGS, AND FIELD CONDITIONS.
7. THE SEC MUST COORDINATE WITH THE DEVICE INSTALLATION DETAILS AND ENSURE THAT DEVICE BACKBOXES ARE APPROPRIATE PER THE FINAL APPROVED SHOP DRAWING, ON A LOCATION-BY-LOCATION BASIS, AND MEET ARCHITECTURAL REQUIREMENTS SURFACE MOUNTING IS ONLY APPROVED IF THERE IS NO OTHER PATHWAY OPTION. NO SURFACE MOUNTING IS APPROVED ON ANY DRYWALL.
8. PROVIDE APPROPRIATE METALLIC RACEWAY FOR THE SECURITY SYSTEM AS NEEDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND SO AS NOT TO EXCEED 40% CONDUIT FILL. WHEN USING SURFACE MOUNTED WIREMOLD, BACK BOX DEPTH SHOULD NOT EXCEED THE ABSOLUTE MINIMUM DEPTH REQUIRED FOR THE DEVICE. FOR EXAMPLE, CARD READERS BACK BOX CANNOT EXCEED ½" IN DEPTH.
9. UNLESS OTHERWISE NOTED, THE SEC SHALL PROVIDE ALL 120/220VAC AS REQUIRED FOR THE SECURITY SYSTEM. FINAL 120 VAC TERMINATIONS IN THE SECURITY EQUIPMENT SHALL BE PERFORMED BY THE SEC AS WELL.
10. THE SEC SHALL PROVIDE AND INSTALL ALL INTERCONNECTING CONDUITS AND RACEWAYS INSIDE THE SECURITY EQUIPMENT AND TERMINATE ALL WIRES AS SHOWN IN THIS DRAWING SET.
11. UNLESS OTHERWISE NOTED, THE SEC SHALL PROVIDE AND INSTALL ALL CABLE PASS-THROUGH HOLES IN HELLWORK.
12. THE SEC SHALL PROVIDE AND INSTALL ALL OVERHEAD CABLE SUPPORTED BY PANDUIT J-HOOKS, CABLE TRAYS, OR EQUIVALENT. CABLE SHALL NOT BE SUPPORTED BY CEILING GRID, DUCTWORK, SPRINKLER PIPES, ELECTRICAL CONDUIT OR GAS PIPES.
13. THE SEC TO PROVIDE GROUNDING OF ALL ELECTRONICS EQUIPMENT, AT MDF/IDF. ON THE PLYWOOD BACKBOARD, USE GROUND BAR. COORDINATE WITH GENERAL CONTRACTOR FOR NEAREST GROUNDING LOCATION.
14. THE SEC SHALL PREP AND WIRE ALL DOORS FOR ELECTRIFIED DOOR HARDWARE. THIS INCLUDES MAGNETIC LOCKS, ELECTRIC LOCKS, DOOR FRAMES FOR ELECTRIC STRIKES, HOLES FOR DOOR CONTACTS AND MAGNETIC LOCK ASSEMBLIES.
15. THESE DRAWINGS INDICATE THE GENERAL INTENT OF WORK AND ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL THE WORK REQUIRED BY THE SEC FOR THE FULL PERFORMANCE AND COMPLETION OF THE CONTRACT.
16. ALL CONDUIT SHALL BE DEBURRED, CLEANED, CAPPED, TAGGED, AND PROVIDED WITH PULL WIRES AND BRUSHINGS. WHERE CONDUITS OR WIREWAYS PASS THROUGH FIRE RATED ASSEMBLIES, THE PENETRATIONS SHALL BE FIRE- STOPPED.
17. PRIOR TO SYSTEM TURN-ON, THE INSTALLING SECURITY CONTRACTOR SHALL REVIEW THE INSTALLATION OF ALL INSTALLED DEVICES WITH OWNER'S REP TO VERIFY CORRECT INSTALLATION & PROPER FUNCTIONING.
18. AT THE TIME OF ACCESS CONTROL SYSTEM TURN ON, THE SEC SHALL PROVIDE THE SAME PERSONNEL WHO PERFORMED & SUPERVISED THE WORK TO TROUBLESHOOT, TEST THE INSTALLATION AND REMEDY ALL RELATED PUNCH LIST ITEMS FOR FINAL COMMISSIONING.
19. THE SEC SHALL ADJUST CAMERA VIEWS TO OWNER'S SATISFACTION TILL FINAL ACCEPTANCE.
20. CLIENTS FIRE ALARM CONTRACTOR SHALL PROVIDE A SET OF NORMALLY CLOSED (N/C) CONTACTS TO RELEASE ON GENERAL ALARM AND BE CONNECTED BY SEC.
21. THE SEC IS RESPONSIBLE FOR PROVIDING A COMPLETE AND ACCURATE SET OF AS-BUILT DRAWINGS.
22. ALL WIRES TO BE MACHINE LABELED VIA SELF LAMINATING LSL-77 TAGS OR SIMILAR. PROVIDE FOR OWNER'S REP REVIEW PRIOR TO USE
23. SECURITY SCREWS TO BE USED ON ALL DEVICES TO MAINTAIN SYSTEM'S INTEGRITY

POWER REQUIREMENTS

1	**POWER (EMERGENCY CIRCUIT)** CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4'x4' BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.
2	**POWER (NON-EMERGENCY CIRCUIT)** CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4'x4' BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.

SECURITY DEVICES LEGEND

CR	CARD READER	LR = LONG RANGE EL = ELEVATOR	BIO = BIOMETRIC BC = BARCODE
DDC	DOUBLE DOOR CONTACTS	R = RECESS S = SURFACE	DPDT = DOUBLE POLE DOUBLE THROW
DC	DOOR CONTACT	R = RECESS S = SURFACE	DPDT = DOUBLE POLE DOUBLE THROW
KP	BURG PANEL KEY PAD		
DO	ELECTRIFIED DOOR OPERATOR (PBO)		
OH	OVERHEAD DOOR CONTACT	DPDT = DOUBLE POLE DOUBLE THROW	
EL	ELECTRIC MORTISE LOCK	REX = REQUEST TO EXIT BUILT IN	
ML	ELECTROMAGNETIC LOCK		
ES	ELECTRIC STRIKE LOCK		
EOL	END OF LINE RESISTOR		
REX	REQUEST TO EXIT MOTION SENSOR		
ILDA	INTELLIGENT LOCAL DOOR ALARM (ILDA) - "D" CABLE		
CRB	ELECTRIC LOCKING CRASH BAR	REX = BUILT IN REQUEST TO EXIT	
MD LR	MOTION SENSOR (LONG RANGE) - "A" CABLE	MOTION SENSORS WILL BE WALL MOUNTED UNLESS MOTION SENSOR IS 360° CEILING TYPE	
MD SR	MOTION SENSOR (SHORT RANGE) - "A" CABLE		
BUZ	BUZZER		
TMP	TEMPERATURE SENSOR		
MON	VIDEO MONITOR		
ICM	INTERCOM	S=SUBSTATION M=MASTER	VS=VIDEO SUBSTATION VM=VIDEO MASTER
S	SIREN		
CAS	CUSTODIAL ARMING STATION		
ADA	ADA PUSHBUTTON DOOR RELEASE		
AO	AUTOMATIC DOOR OPERATOR		
	FIXED MINI DOME OUTDOOR VANDAL CAMERA		
	FIXED MINI DOME INDOOR CAMERA		
	PTZ DOME OUTDOOR CAMERA		
	PTZ DOME INDOOR CAMERA		
360°	360° OUTDOOR CAMERA		
360°	360° INDOOR CAMERA		

CABLE TYPE/IDENTIFICATION SCHEDULE

ID	MANUFACTURER	PART #	DESCRIPTION	CABLE TYPE
A	REMEE	4722A-AMZ	(SI) - COMPONENT 1: CARD READER-IN 1/PR (RS-485) SHIELDED 22AWG STRANDED 2 COND (LED/BZR) 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED (SO) - COMPONENT 2: CARD READER-OUT 1/PR (RS-485) SHIELDED 22AWG STRANDED 2 COND (LED/BZR) 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED (DC) - COMPONENT 3: DOOR CONTACT 2 COND - 22AWG STRANDED (EL) - COMPONENT 4: LOCK POWER 2 COND - 18AWG STRANDED (HN) - COMPONENT 5: HORN/STROBE 2 COND - 20AWG STRANDED	PLENUM
B	REMEE	4722B-AMZ	(SI) - COMPONENT 1: CARD READER-IN 1/PR (RS-485) SHIELDED 22AWG STRANDED 2 COND (LED/BZR) 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED (RX-MO) - COMPONENT 2: REQUEST TO EXIT 4 COND - 2 COND - 22AWG (CONTACT) STRANDED 2 COND - 20AWG (POWER) STRANDED (DC) - COMPONENT 3:DOOR CONTACT 2 COND - 22AWG STRANDED (EL) - COMPONENT 4: LOCK POWER 2 COND - 18AWG STRANDED (HN) - COMPONENT 5: HORN/STROBE 2 COND - 20AWG STRANDED	PLENUM
EXO	REMEE	5465-AMZ	(RX-MO) - COMPONENT 2: REQUEST TO EXIT 4 COND - 2 COND - 22AWG (CONTACT) STRANDED 2 COND - 20AWG (POWER) STRANDED (DC) - COMPONENT 3:DOOR CONTACT 2 COND - 22AWG STRANDED (HN) - COMPONENT 5: HORN 2 COND - 20AWG STRANDED	PLENUM
SI	REMEE	5333-SI	CARD READER-IN 1/PR (RS-485) SHIELDED 22AWG STRANDED 2 COND (LED/BZR) 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED	PLENUM
DC	REMEE	5333-DC	2 COND - 22AWG STRANDED-BARE COPPER	PLENUM
EL	REMEE	5333-EL	2 COND - 18AWG STRANDED-BARE COPPER	PLENUM
HN	REMEE	5333-SI	2 COND - 20AWG STRANDED-BARE COPPER	PLENUM
RX-MO	REMEE	5333-RX-MO	4 COND - 2 COND - 22AWG (CONTACT) STRANDED 2 COND - 20AWG (POWER) STRANDED	PLENUM
BR	PANDUIT	P71950	3 PAIR - 20AWG STRANDED-BARE COPPER, INDIVIDUALLY SHIELDED	BURIAL

ISSUED FOR:	
DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - IDF-2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 5 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 6 - FOR CONSTRUCTION
12/12/2023	REV 8 - FOR BID

ITG Larson, inc.
155 Lafayette Ave
White Plains, NY 10603

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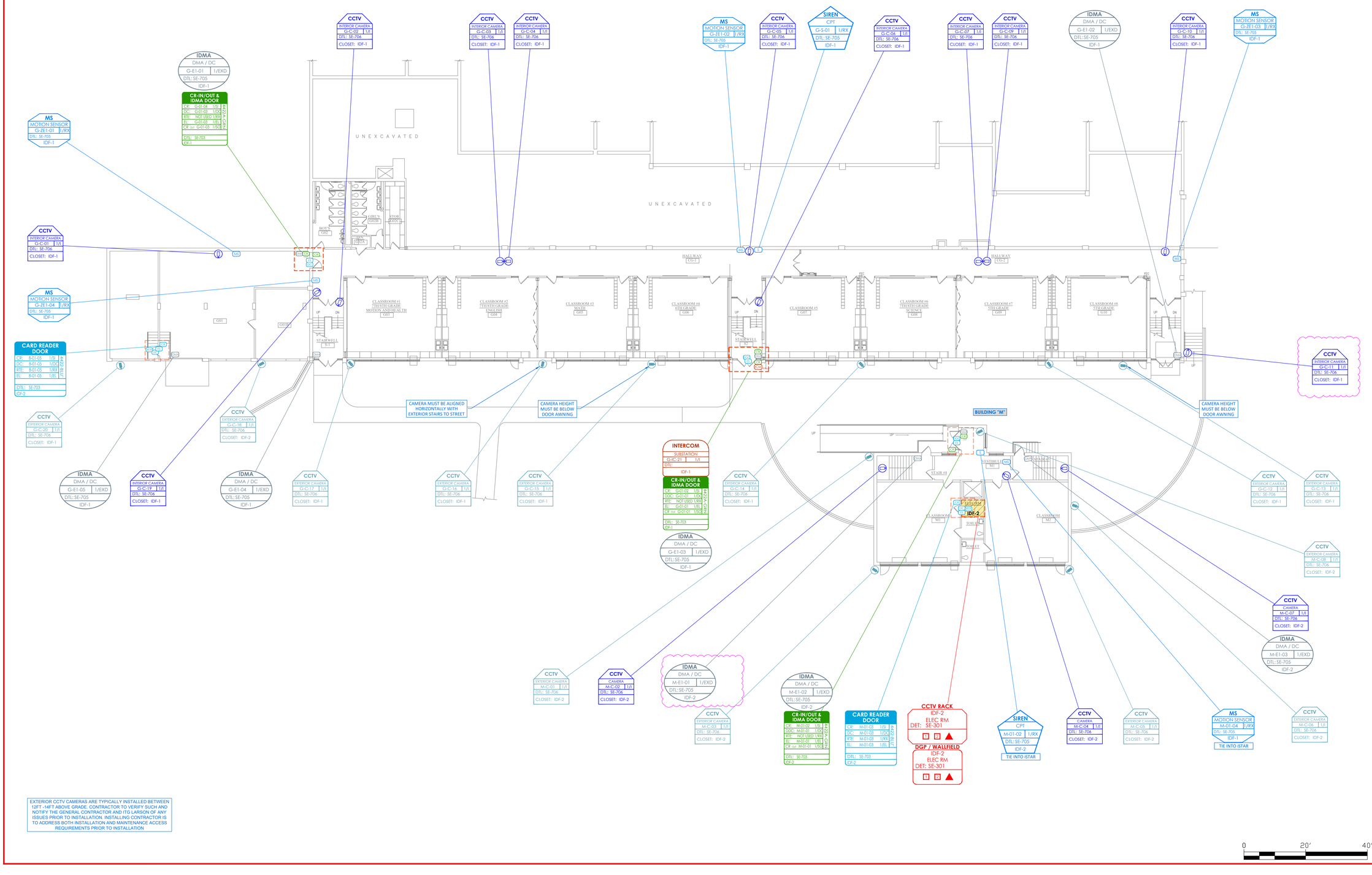
PROJECT:
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:
COVER SHEET / LEGEND & INDEX

XX	XX	XX
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: XXXXXX
DATE: 11/25/2019
SCALE: N.T.S.
S.A. NO: XXXXXX
DRAWING NO: SE-000



EXTERIOR CCTV CAMERAS ARE TYPICALLY INSTALLED BETWEEN 12FT -14FT ABOVE GRADE. CONTRACTOR TO VERIFY SUCH AND NOTIFY THE GENERAL CONTRACTOR AND ITG LARSON OF ANY ISSUES PRIOR TO INSTALLATION. INSTALLING CONTRACTOR IS TO ADDRESS BOTH INSTALLATION AND MAINTENANCE ACCESS REQUIREMENTS PRIOR TO INSTALLATION

ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
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5/24/2021	REV 6 - FOR CONSTRUCTION
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155 Lafayette Ave
White Plains, NY 10603

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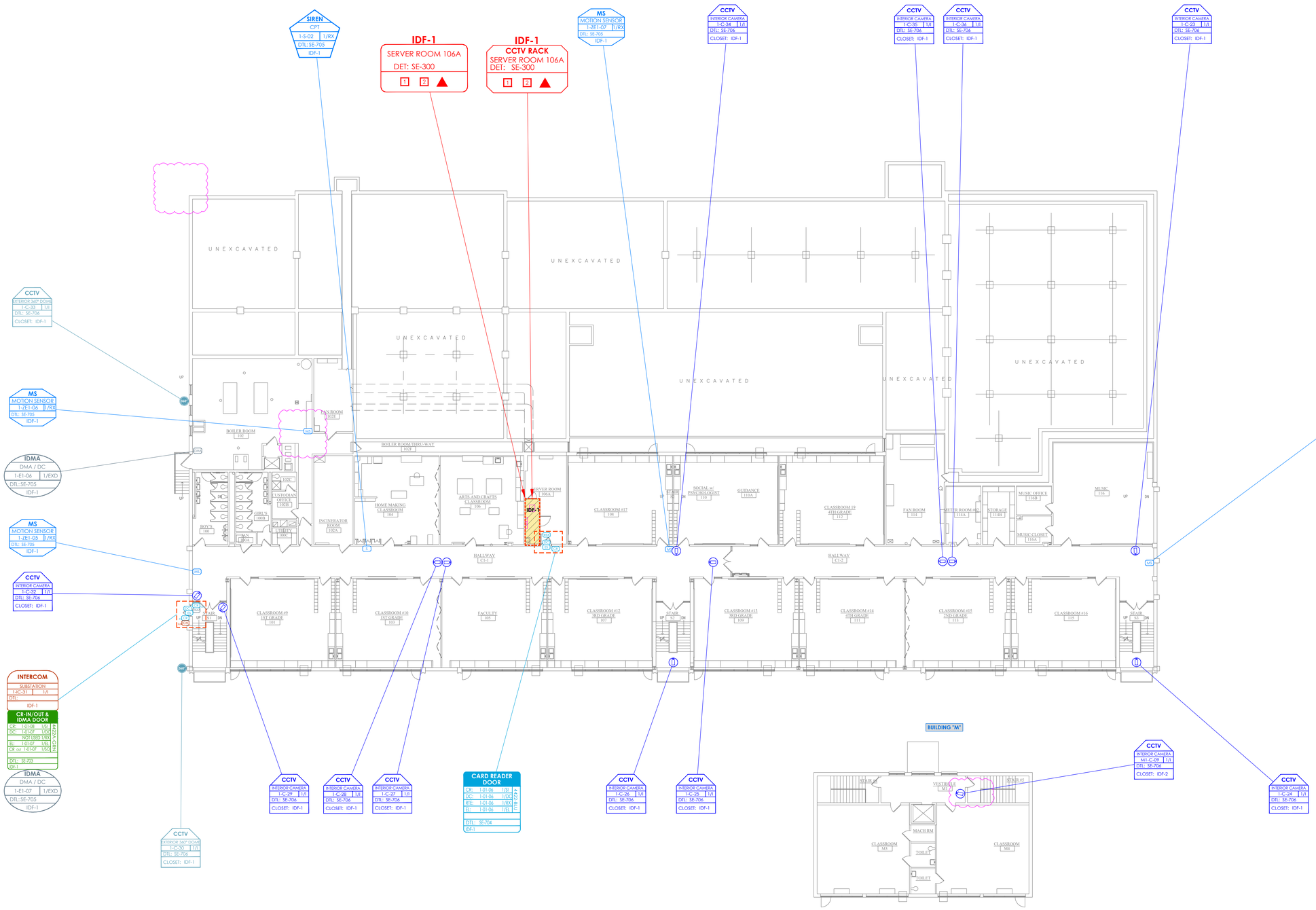
PROJECT:
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:
SECURITY UPDATE PROJECT
GROUND FLOOR

DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

WORK ORDER NO: XXXXXX
DATE: 11/25/2019
SCALE: N.T.S.
S.A. NO: XXXXXX
DRAWING NO: SE-100



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0 20' 40'

ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - IDF-2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 5 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 6 - FOR CONSTRUCTION
12/12/2023	REV 8 - FOR BID

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155 Lafayette Ave
White Plains, NY 10603

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PROJECT:

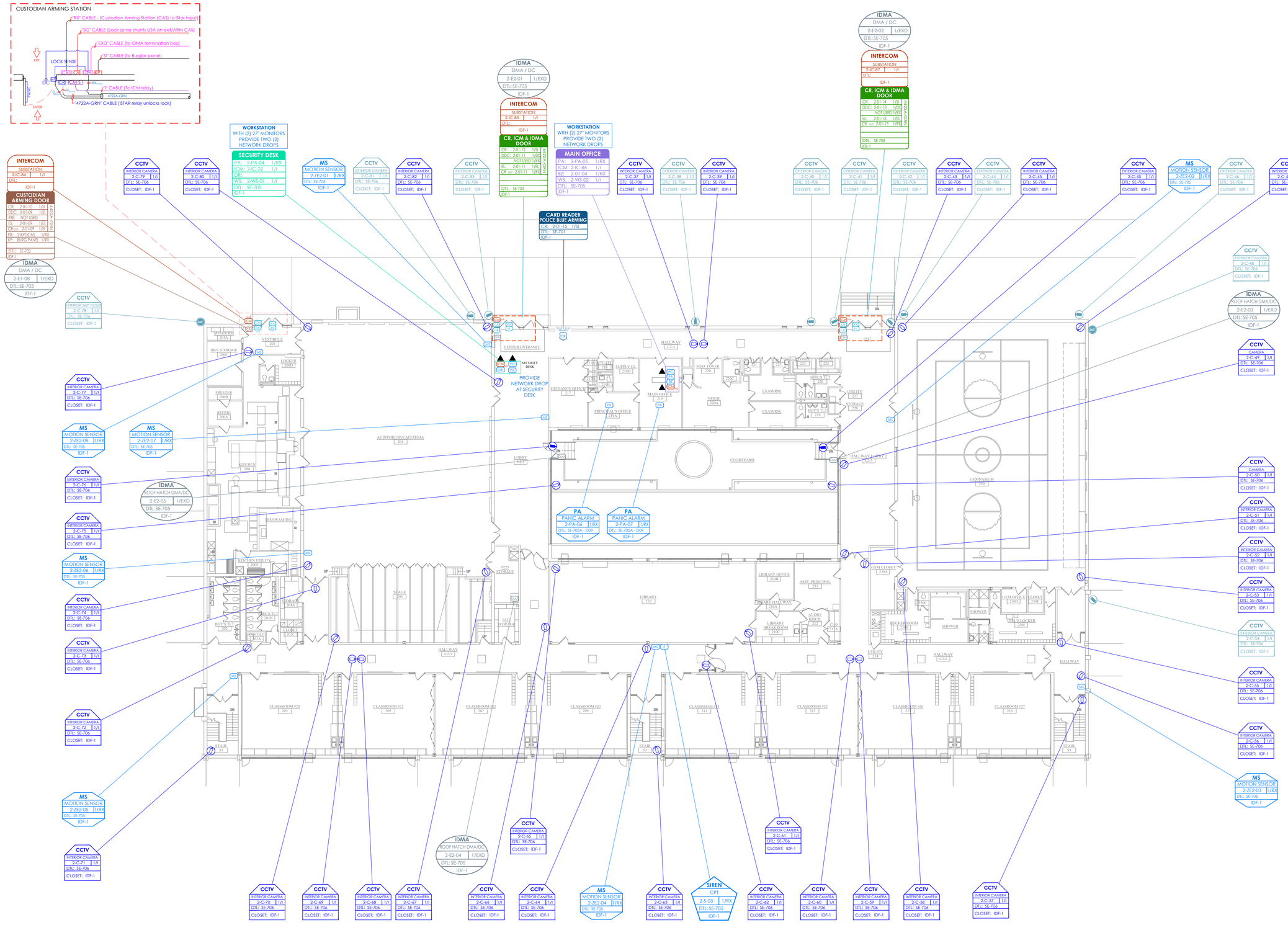
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:

SECURITY UPDATE PROJECT
FIRST FLOOR

DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

WORK ORDER NO: XXXXXX
DATE: 11/25/2019
SCALE: N.T.S.
S.A. NO: XXXXXX
DRAWING NO: SE-101



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ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - IDF-2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 5 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 6 - FOR CONSTRUCTION
12/12/2023	REV 8 - FOR BID

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155 Lafayette Ave
White Plains, NY 10603

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PROJECT:

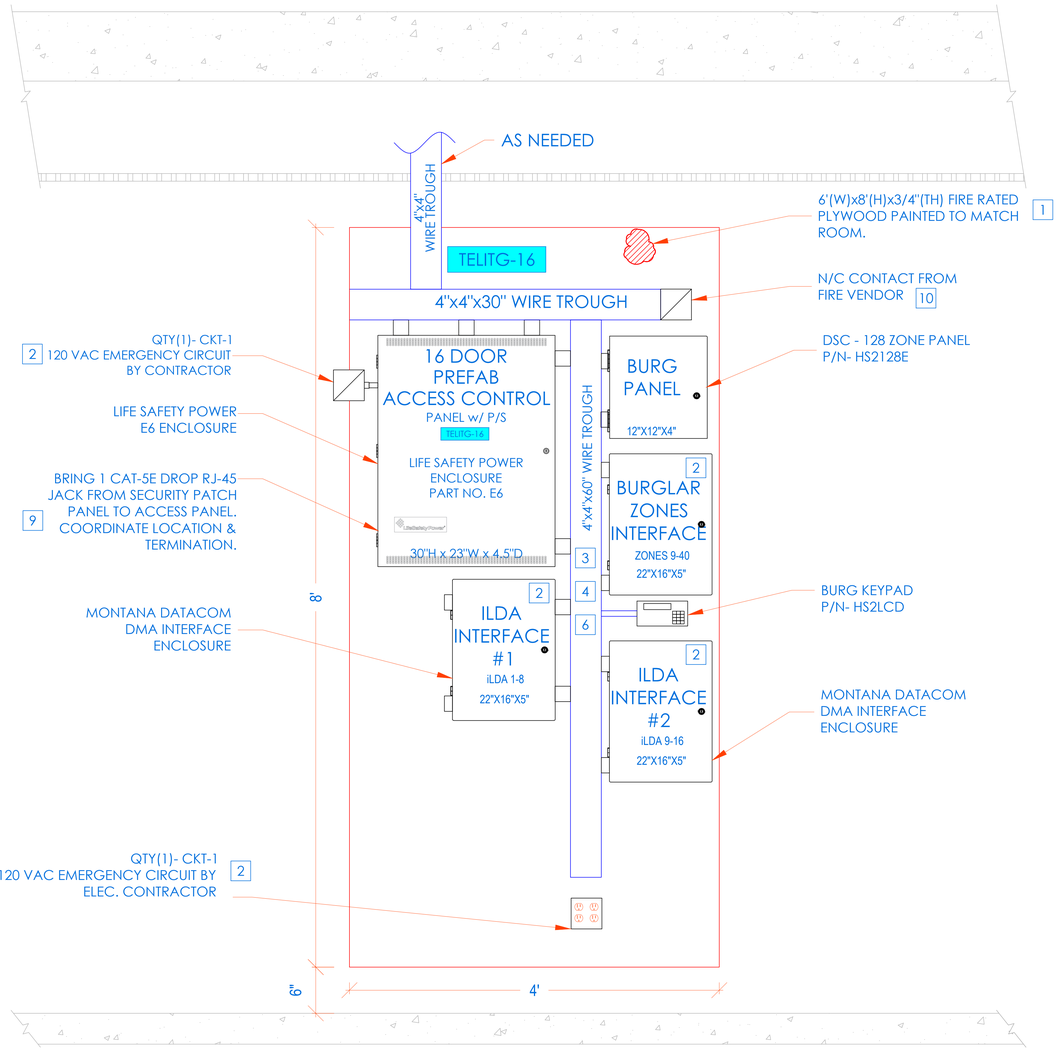
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:

SECURITY UPDATE PROJECT
SECOND FLOOR

DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

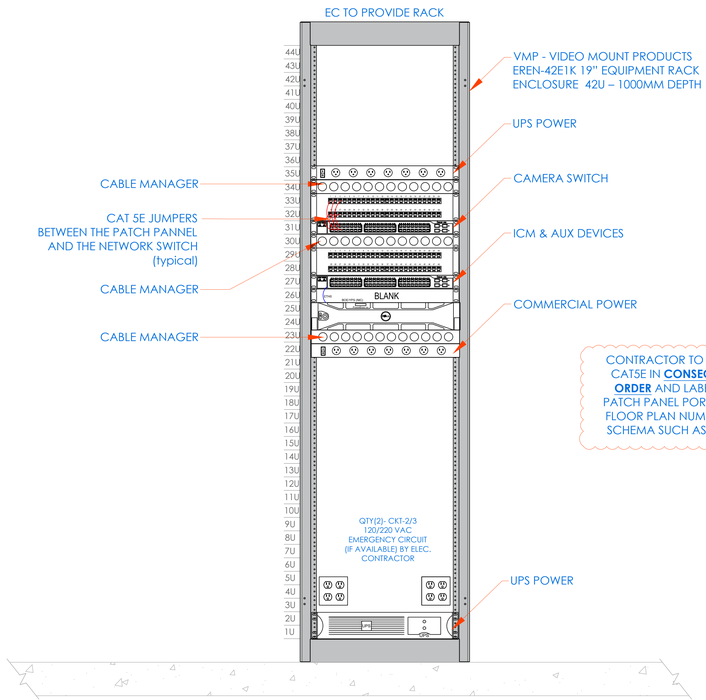
WORK ORDER NO: XXXXXX
DATE: 11/25/2019
SCALE: N.T.S.
S.A. NO: XXXXXX
DRAWING NO: SE-102



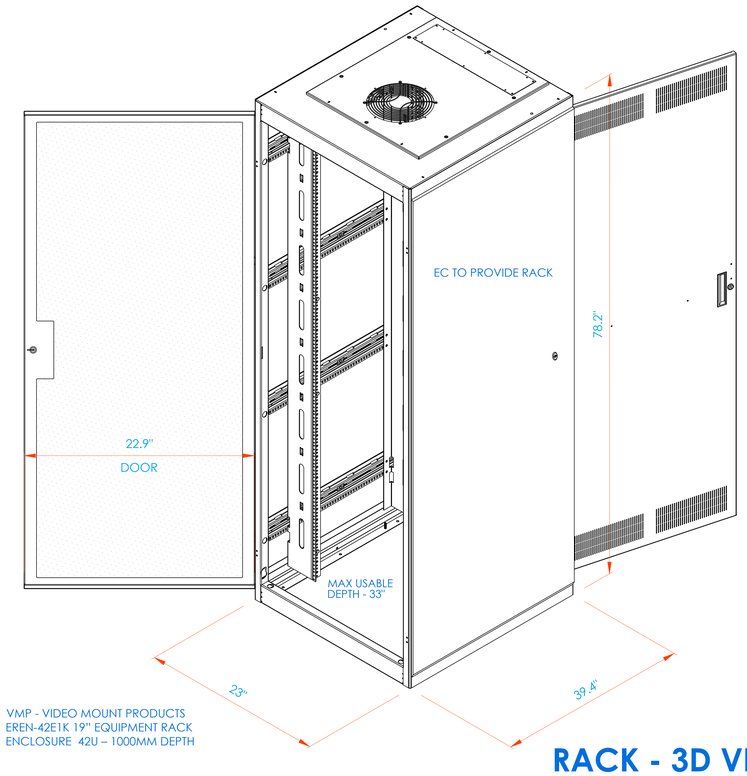
INSTALLATION PROCEDURE
iSTAR ULTRA SE 16 DOORS WITH LSP 12V/24V ACCESS CONTROL HEAD END

1. LAYOUT EQUIPMENT TO BE MOUNTED AT DESIGNATED PLYWOOD (FIRE RATED AND PAINTED TO MATCH ROOM) BOARD IN SDF ROOM IN ACCORDANCE WITH THE PROVIDED ELEVATIONS HERE. STEPS KEYED ON THE DRAWINGS ARE NOTED BELOW.
2. COMPLETE INSTALLATION OF 120VAC/20A DEDICATED CIRCUIT AS SHOWN.
3. FURNISH AND INSTALL A 4"x4"x30" CABLE TROUGH WITH SCREW FASTENED REMOVABLE COVER (NEMA TYPE 1), MOUNTED HORIZONTALLY, ON THE PLYWOOD 4" FROM THE TOP EDGE OF PLYWOOD.
4. FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM THE LOCK POWER SUPPLY (TO THE CENTER TROUGH AS SHOWN. DO NOT ENTER BOTTOM OF P/S (INTERFERES WITH BATTERY).
5. MOUNT [iSTAR ULTRA SE] ENCLOSURE 1" BELOW THE LOCK POWER SUPPLY. FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM [iSTAR ULTRA SE] ENCLOSURE TO THE CENTER TROUGH AS SHOWN.
6. BRING CAT-5 CABLE AND/OR MOUNT AN RJ-45 JACK FOR PANEL DATA COMM, FROM NEAREST NETWORK SWITCH TO HERE. COORDINATE TERMINATION WITH TELECOM VENDOR OR CUSTOMER'S DATA CONSULTANT.
7. COORDINATE WITH MEP/ BLDG MANAGEMENT TO PROVIDE ONE SET OF NORMALLY CLOSED (N/C) DRY CONTACT FROM THE SITE'S FIRE ALARM SYSTEM, TO OPEN ON GENERAL ALARM ACTIVATION. (PROVIDED BY FIRE VENDOR).ELECTRIC LOCKS MUST BE FAIL SAFE FOR THIS FUNCTIONALITY.
8. ALL CONDUITS AND CONNECTIONS SHALL BE INSTALLED TO REQUIRED ENCLOSURES AS NEEDED PER DIAGRAM PROVIDED.
9. ALL CONNECTIONS BETWEEN PANELS & TROUGHS SHOULD BE CHASE NIPPLES & RIGID COUPLINGS.

CCTV NETWORK RACK



FRONT ELEVATION



RACK - 3D VIEW

ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - IDF-2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
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5/24/2021	REV 6 - FOR CONSTRUCTION
12/12/2023	REV 8 - FOR BID

ITG Larson,Inc.
155 Lafayette Ave
White Plains, NY 10603

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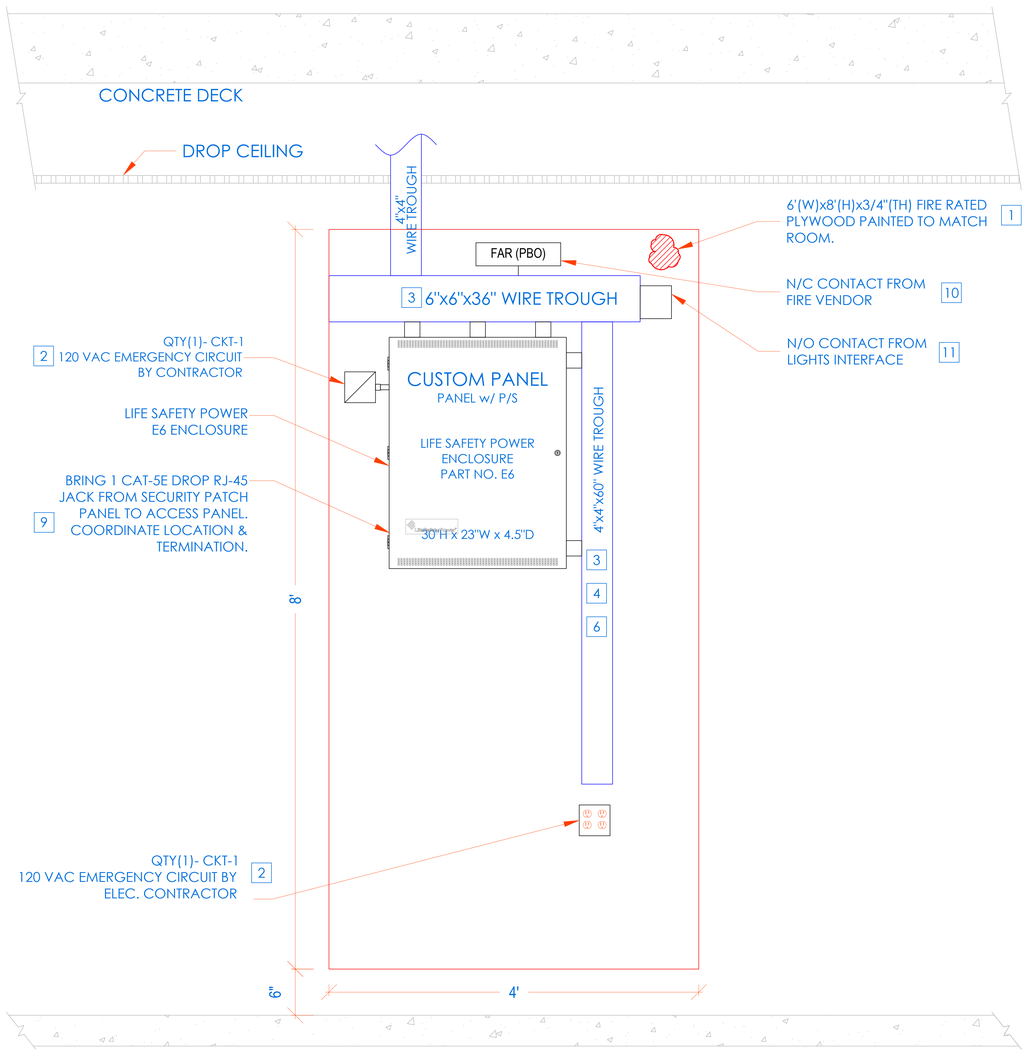
PROJECT:
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:
CLOSET ELEVATIONS
IDF-1

DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

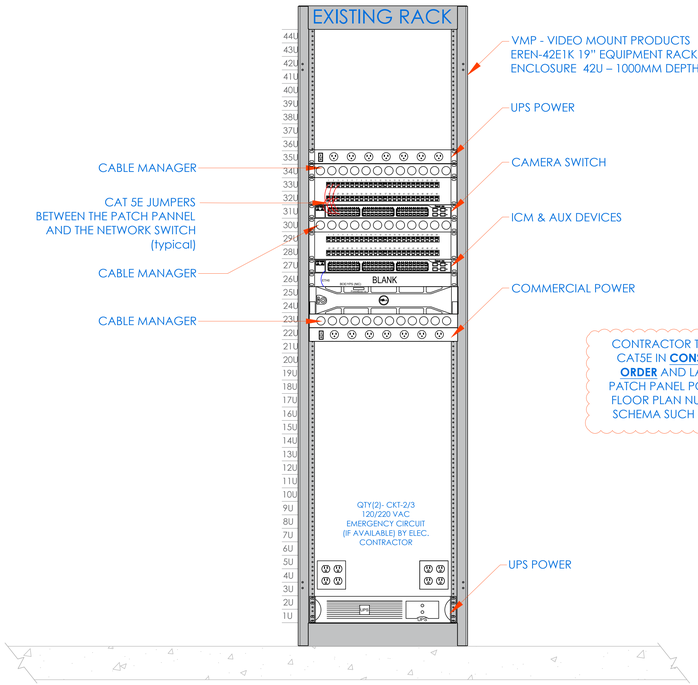
WORK ORDER NO:	DATE:
XXXXXX	11/25/2019
S.A. NO:	SCALE: N.T.S.
XXXXXX	DRAWING NO: SE-300



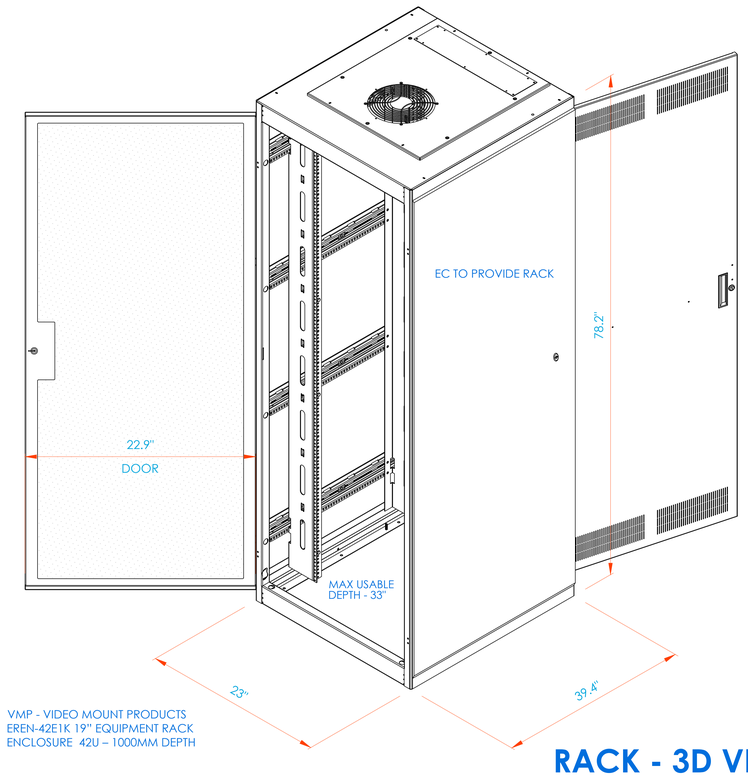
INSTALLATION PROCEDURE
iSTAR 4 DOORS WITH LSP 12V/24V ACCESS CONTROL HEAD END

1. LAYOUT EQUIPMENT TO BE MOUNTED AT DESIGNATED PLYWOOD (FIRE RATED AND PAINTED TO MATCH ROOM) BOARD IN SDF ROOM IN ACCORDANCE WITH THE PROVIDED ELEVATIONS HERE. STEPS KEYED ON THE DRAWINGS ARE NOTED BELOW.
2. COMPLETE INSTALLATION OF 120VAC/20A DEDICATED CIRCUIT AS SHOWN.
3. FURNISH AND INSTALL A 4"x4"x30" CABLE TROUGH WITH SCREW FASTENED REMOVABLE COVER (NEMA TYPE 1), MOUNTED HORIZONTALLY, ON THE PLYWOOD 4" FROM THE TOP EDGE OF PLYWOOD.
4. FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM THE LOCK POWER SUPPLY (TO THE CENTER TROUGH AS SHOWN. DO NOT ENTER BOTTOM OF P/S (INTERFERES WITH BATTERY).
5. MOUNT [iSTAR ULTRA SE] ENCLOSURE 1" BELOW THE LOCK POWER SUPPLY. FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM [ISTAR ULTRA SE] ENCLOSURE TO THE CENTER TROUGH AS SHOWN.
6. BRING CAT-5 CABLE AND/OR MOUNT AN RJ-45 JACK FOR PANEL DATA COMM, FROM NEAREST NETWORK SWITCH TO HERE. COORDINATE TERMINATION WITH TELECOM VENDOR OR CUSTOMER'S DATA CONSULTANT.
7. COORDINATE WITH MEP/ BLDG MANAGEMENT TO PROVIDE ONE SET OF NORMALLY CLOSED (N/C) DRY CONTACT FROM THE SITE'S FIRE ALARM SYSTEM, TO OPEN ON GENERAL ALARM ACTIVATION. (PROVIDED BY FIRE VENDOR).ELECTRIC LOCKS MUST BE FAIL SAFE FOR THIS FUNCTIONALITY.
8. ALL CONDUITS AND CONNECTIONS SHALL BE INSTALLED TO REQUIRED ENCLOSURES AS NEEDED PER DIAGRAM PROVIDED.
9. ALL CONNECTIONS BETWEEN PANELS & TROUGHS SHOULD BE CHASE NIPPLES & RIGID COUPLINGS.

CCTV NETWORK RACK



FRONT ELEVATION



VMP - VIDEO MOUNT PRODUCTS
EREN-42E1K 19" EQUIPMENT RACK
ENCLOSURE 42U – 1000MM DEPTH

RACK - 3D VIEW

ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - IDF-2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
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12/12/2023	REV 8 - FOR BID

ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:
CLOSET ELEVATIONS
IDF-2

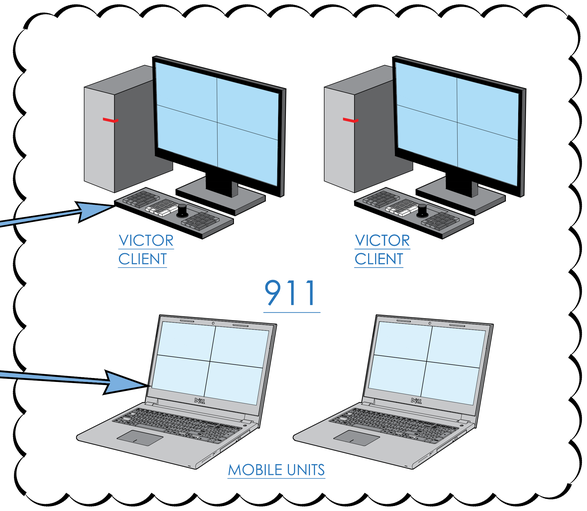
DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

WORK ORDER NO:	DATE:
XXXXXX	11/25/2019
E.A. NO:	SCALE: N.T.S.
XXXXXX	DRAWING NO: SE-301

COY-BOE SECURITY DEVICE NETWORK TOPOLOGY

CCURE / VICTOR
DB

COY
CITY OF YONKERS



* TO UTILIZE VICTOR FOR MAX FUNCTIONALITY
USERS WILL CONNECT TO COY UNIFIED SERVER

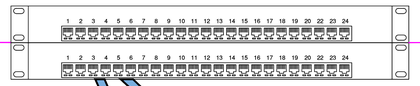
AMERICAN DYNAMICS NVR

ETH0
COY NETWORK

ETH1
BOE NETWORK

ETH2
CAMERA NETWORK

SCHOOL SWITCH



BOARD OF EDUCATION

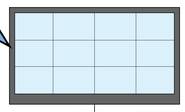
CAMERA
SWITCH 1

TYPICAL

C1 CAT-5 ; 10.100.xx.xxx
C2 CAT-5 ; 10.100.1.135
C3 CAT-5 ; 10.100.1.1XX
C4 CAT-5 ; 10.100.1.137

FIBER
CONNECTION
OR DEDICATED CAT 6e

47" WALL MOUNTED
PRINCIPAL'S OFFICE

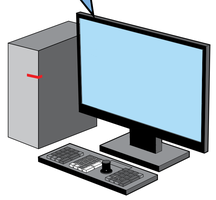


ATLONA X2

KBD & MOUSE

VICTOR CLIENT

VICTOR MONITORING CLIENT



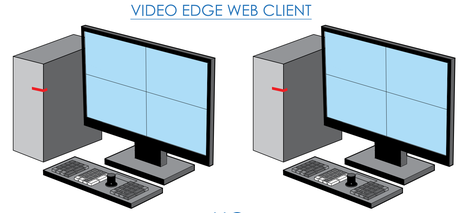
PRINCIPAL'S DESK
WEB CLIENT

CAMERA
SWITCH 2

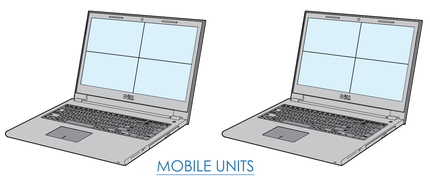
TYPICAL

C1 CAT-5 ; 10.100.1.134
C2 CAT-5 ; 10.100.1.135
C3 CAT-5 ; 10.100.1.1XX
C4 CAT-5 ; 10.100.1.137

VIDEO EDGE WEB CLIENT



HQ
1 LARKIN PLAZA



MOBILE UNITS

ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - IDF-2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
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White Plains, NY 10603

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PROJECT:
YONKERS ~~PUBLIC SCHOOLS~~
ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:
CCTV
ONE LINE DIAGRAM

DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

WORK ORDER NO:	DATE:
XXXXXX	11/25/2019
S.A. NO:	SCALE: N.T.S.
XXXXXX	DRAWING NO: SE-303

BURGLAR & ACCESS - OVERALL SYSTEMS INTERFACES - ONE LINE

DOORS, MOTION DETECTORS ETC:

(typical)

MD MD MD

SIRENS

X-FL 1ST BSMT

SRN SRN SRN

CELLULAR COMM

10/100 TO CCURE-9000 AND CENTRAL STATION

POLICE - FRONT DOOR AREA

"BLUE" ARMING READER FRONT DOOR

CR "IN" KEYPAD

CUSTODIAN ARMING STATION (CAS)

ICM CAS PB CR "OUT" IDMA KEYPAD

BURG PANEL

BY PANEL- FOR SERVICE

CONTRACTOR TO ALSO WIRE:

FROM ISTAR OUTPUT -> TO BURG INPUT:
BURG ZN1 - ARM/FORCE ARM PANEL (momentary)
BURG ZN2 - DISARM PANEL (momentary)
BURG ZN3 - GENERAL PERIMETER DMA/LDA ALARMS (latched)

FOR FURTHER DETAILS SEE SE-705

FROM BURG OUTPUT TO ISTAR INPUT:
OUTPUT 1 - GENERAL BURGLAR ALARM
OUTPUT 2 - N/C CONTACT WHEN "ARMED STATUS" (Light/un-bypass IDMA)
OUTPUT 3 - ZONE TROUBLE (Any zone)
OUTPUT 4 - ALYSSA'S LAW - SILENT PANIC

SOFTWARE HOUSE

ISTAR CC-9000

"EL" BUZZER - ADMINISTRATION OFFICE (IDMA ALARM)

"EL" N/C FIRE ALARM CONTACT(BY EC):
1- TURN "LIGHTS" INTERFACE RELAY ON

"EL" LOW VOLTAGE WIRE FROM LIGHT CONTACTOR(S) TO SECURITY PANEL BY EC

LIGHTS TURN ON:
1- WHEN BURGLAR ALARM IS TRIGGERED
2- WHEN FIRE ALARM IS ACTIVATED

LIGHT CONTROL CONTACTOR (by EC)

TO ISTAR - BURG PANEL "ARM" EVENT

TO DMA/LDA TERMINATION CONTROL PANEL

ILDA TERMINATION BOX
(SEE SE-704 FOR DETAILS)

IDMA-1
IDMA-2
IDMA-3
IDMA-n'

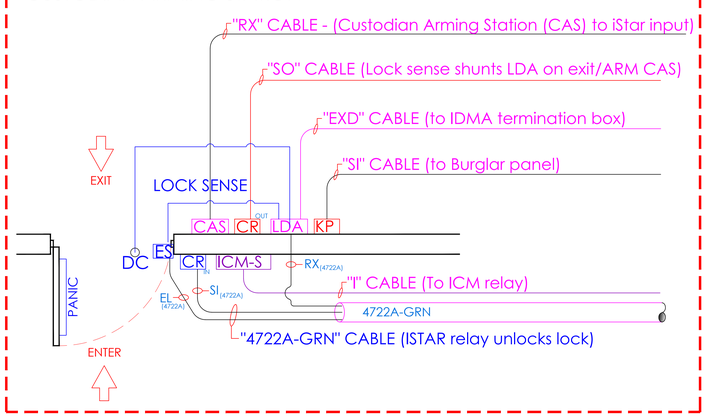
NOTE: PERIMETER "DOOR CONTACT" STATUS IS PROVIDED BY THE LDA/DMA VIA THE CC-9000 AND ISTAR AND IS SENT TO THE BURGLAR PANEL VIA API AND HARD WIRED TO ZONE#3. LDA/DMA ALARMS ARE ANNOUNCED AT ADMIN OFFICE VIA LOCAL BUZZER AND EMAIL NOTIFICATIONS

1. SINGLE SWIPE - UNLOCKS DOOR AND MOMENTARY SHUNTS DMA. (APPROX. 20SEC);
2. EVENT - DOUBLE SWIPE - UNLOCKS DOOR AND SHUNTS THE DMA "FOREVER" (until another double swipe)
3. SINGLE SWIPE AND PUSHING THE CAS ARMING BUTTON - WILL (FORCE) ARM THE SYSTEM;

EVENTS PROGRAMMING:

1. ENTERING FROM OUTSIDE:
   - 1.1. UNLOCK CUSTODIAN DOOR USING THE "M" CABLE PORT /RELAY FOR THE "IN READER" (MUST BE ADA PERSON IN CCURE SOFTWARE)
   - 1.2. EVENT - DISARM BURGLAR ALARM VIA API AND DRY CONTACTS (ZN2)
   - 1.3. EVENT - TURN BUILDING'S HALLWAY LIGHTS
   - 1.4. EVENT - SHUNTS DOOR's LDA/DMA USING THE LOCK SENSE FEATURE
2. EXITING FROM INSIDE - PRESENTING A VALID CARD WILL:
   - 2.1 SHUNTS DOOR's LDA/DMA USING THE LOCK SENSE FEATURE
   - 2.2 EVENT - ARM THE "CAS BURG ARMING BUTTON INPUT" FOR 10 SECONDS. IF CAS ARMING IS PUSHED WITHIN THAT 10 SEC OF PRESENTING A CARD, THE BURG PANEL WILL START ARMING USING ZN1 - FORCED ARM
   - 2.3 WHEN BURGLAR PANEL ARMS - SHUT OFF BUILDING'S LIGHTS

CUSTODIAN ARMING STATION



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ITG Larson, inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:
BURGLAR & ACCESS INTERFACE

DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

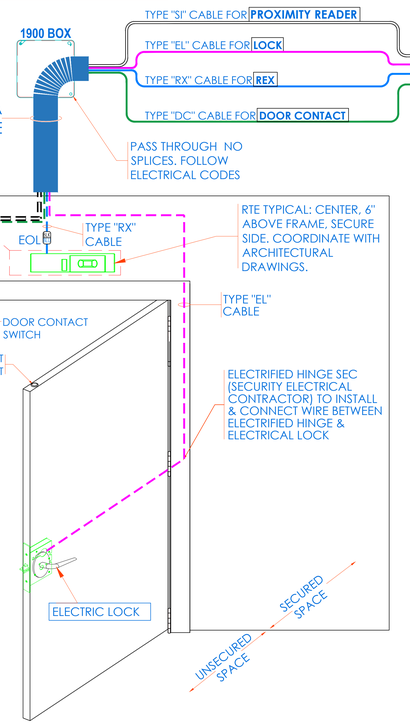
WORK ORDER NO:	DATE:
XXXXXX	11/25/2019
S.A. NO:	SCALE: N.T.S.
XXXXXX	DRAWING NO: SE-701

ULTRA SE TYPICAL WIRING DIAGRAM - MOTION REX

NOTES:

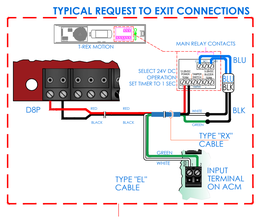
1. THIS DRAWING ASSUMES SOFTWAREHOUSE BOARDS AS WELL AS ELECTRIFIED LOCKS ARE SET AT 24V
2. ELECTRIFIED LOCKS ARE FIELD SELECTABLE AS 12V/ 24V VIA C8P AND D8P
3. DEPENDING ON CONFIGURATION - NUMBER OF B100 CONVERTER, C8P AND D8P WILL VARY. VERIFY SITE SPECIFIC PANEL BUILD FOR EXACT DEVICE TERMINATION LOCATION
4. ***IMPORTANT*** - ANY AND ALL POWER CONSUMING DEVICES SUCH AS MOTION DETECTORS AND ELECTRIFIED LOCKS MUST BE POWERED VIA POWER DISTRIBUTION MODULES SUCH AS LSP PART# C8P FOR LOCKS AND D8P FOR MOTION DETECTORS ETC. DO NOT WIRE DIRECTLY TO SOFTWAREHOUSE BOARDS.

MOTION REX

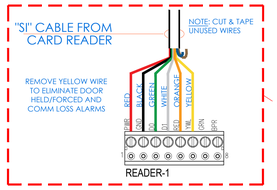


NOTE:
· THIS IS A DEVICE CONNECTION DRAWING SHOWING A TYPICAL DOOR SETUP. THIS MAY OR MAY NOT REPRESENT THE ELECTRIFIED HARDWARE BEING USED ON THIS PROJECT. SEE DOOR TYPICAL FOR MORE INFORMATION AND CONFIRM HARDWARE TYPE FOR EACH SPECIFIC LOCATION PRIOR TO ANY INSTALLATION.
· FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

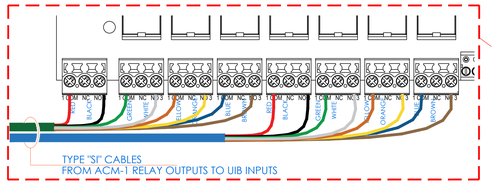
TYPICAL REQUEST TO EXIT CONNECTIONS



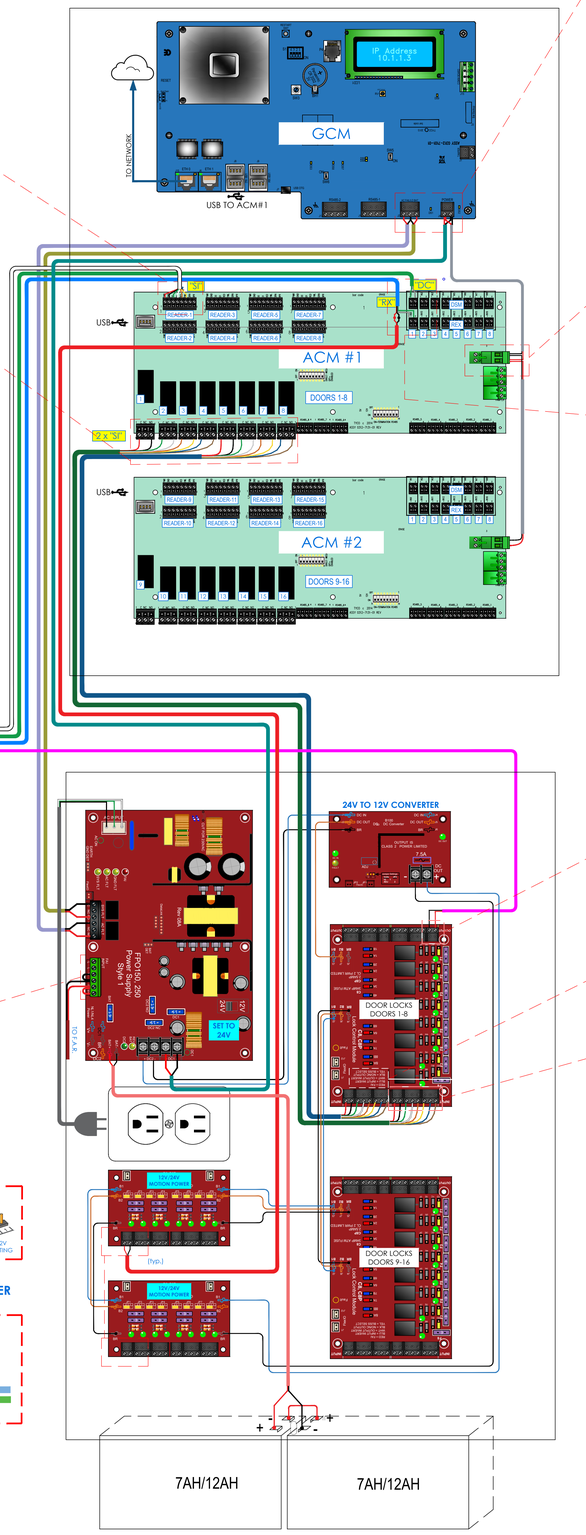
READER CONNECTIONS



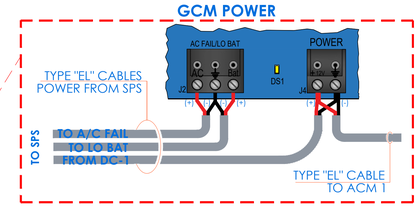
ISTAR OUTPUT RELAYS CONNECTION



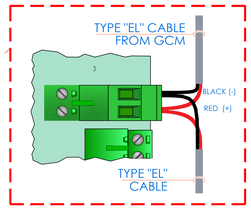
UPPER ENCLOSURE



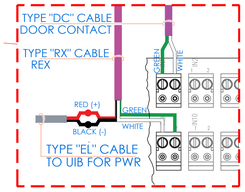
GCM POWER



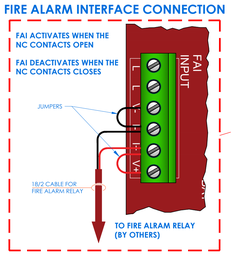
ACM 1 PWR CONNECTION



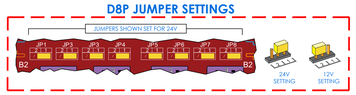
DOOR CONTACT & RTE INPUTS FOR DOOR #1



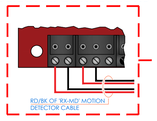
FIRE ALARM INTERFACE CONNECTION



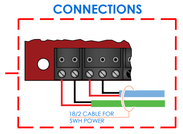
D8P JUMPER SETTINGS



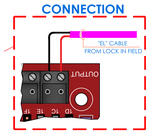
TYP. D8P MOTION DETECTOR CONNECTIONS



TYP. D8 BOARD POWER CONNECTIONS

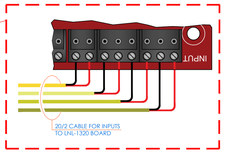


TYP. C8P LOCK CONNECTION



RED = FAI
BLU = INPUT INVERT
WHT = OUTPUT INVERT
BLK = NO/NC OUTPUT
YEL = BUSS SELECT

TYP. C8P INPUT CONNECTIONS



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PROJECT:
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:
ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS w/ MOTION REX

DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

WORK ORDER NO:	DATE:
XXXXXX	11/25/2019
S.A. NO:	SCALE: N.T.S.
XXXXXX	DRAWING NO: SE-702-A

ULTRA SE TYPICAL WIRING DIAGRAM - BUILT-IN REX

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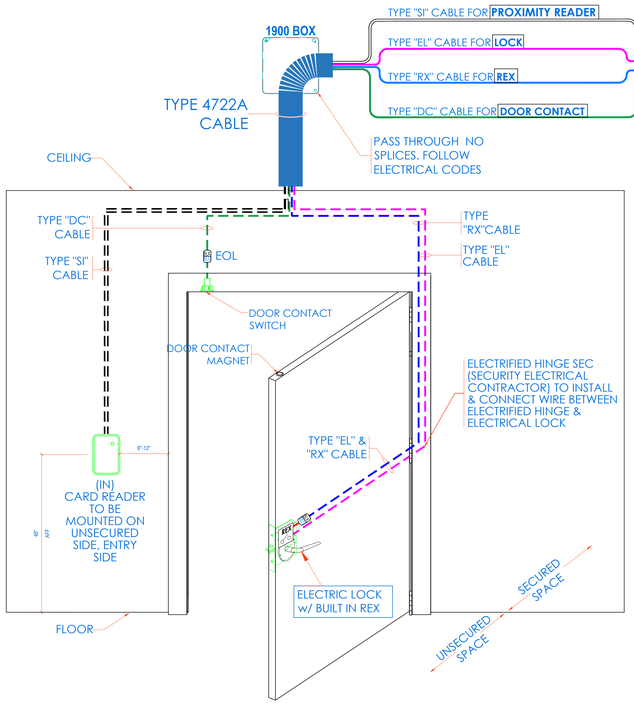
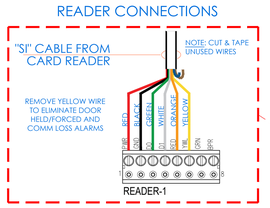
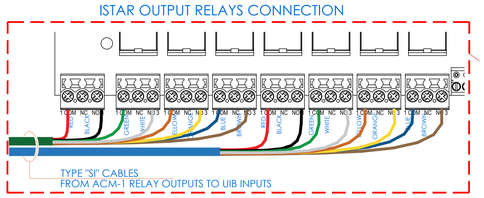
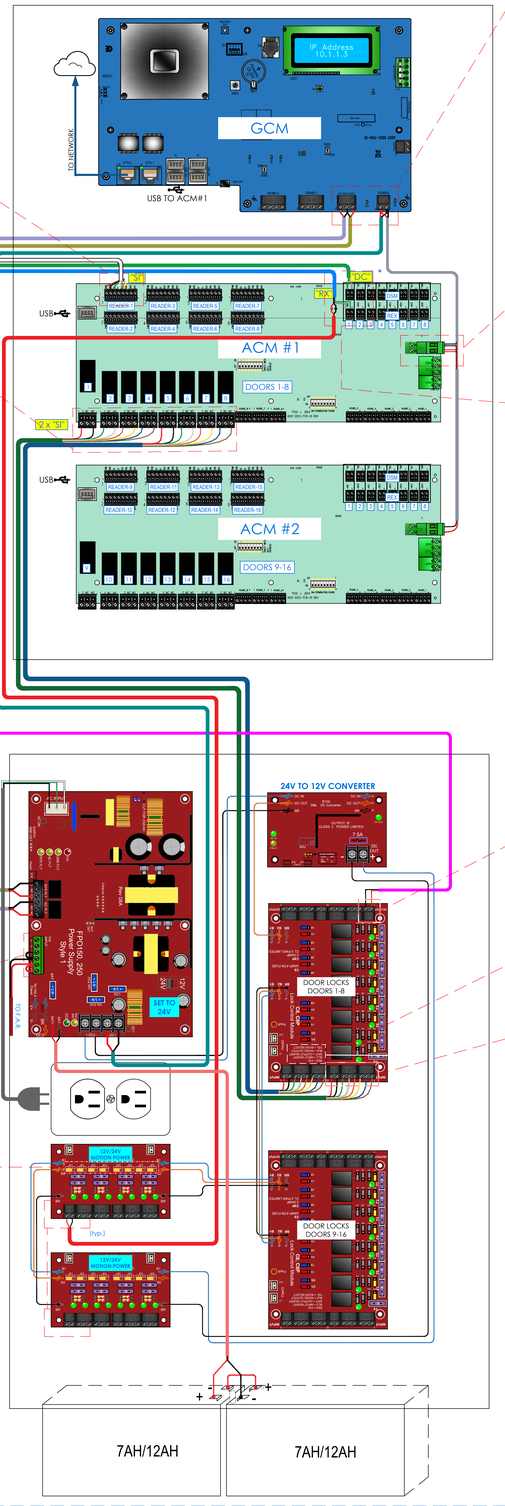
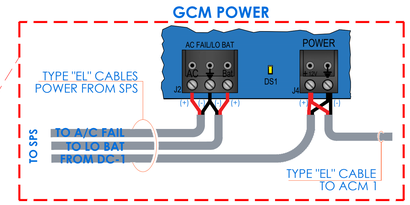
REX IN LOCK

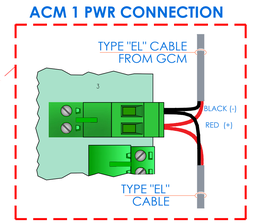


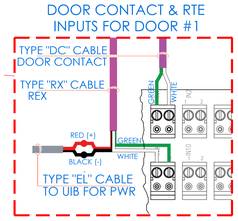


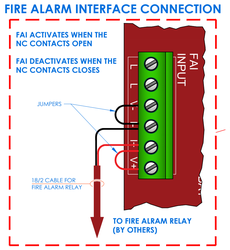


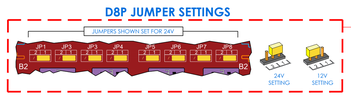


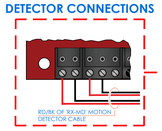


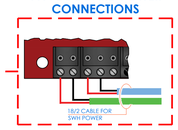


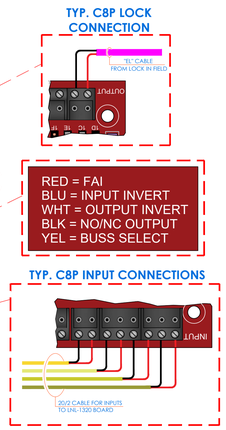












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135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:
ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS w/ BUILT-IN REX

DESIGNED BY	DRAWN BY	CHECKED BY
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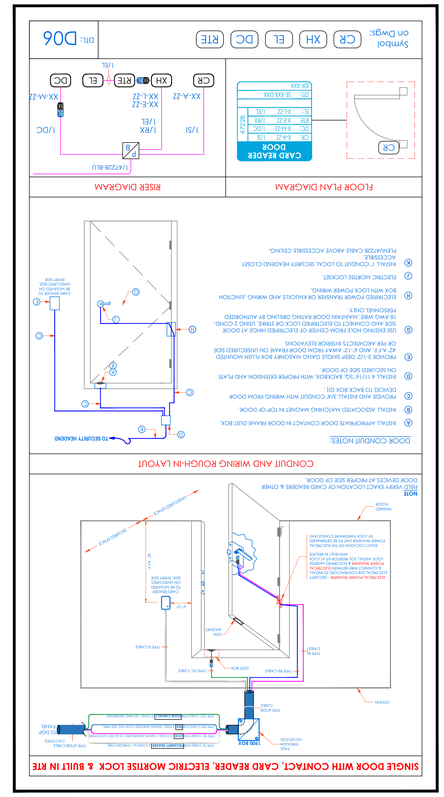

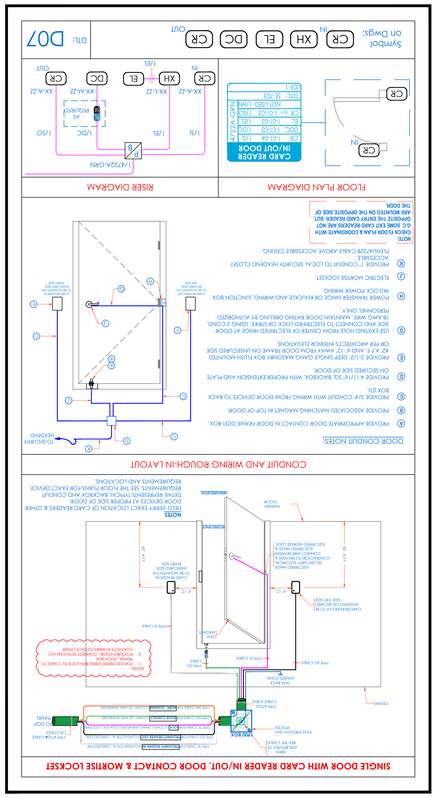

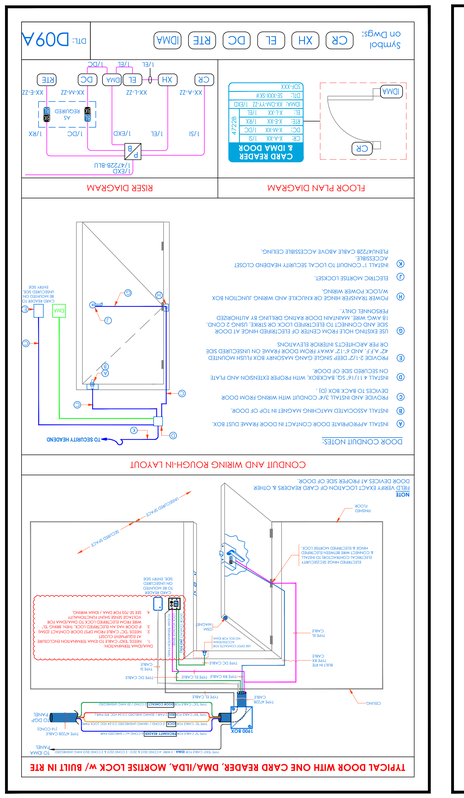

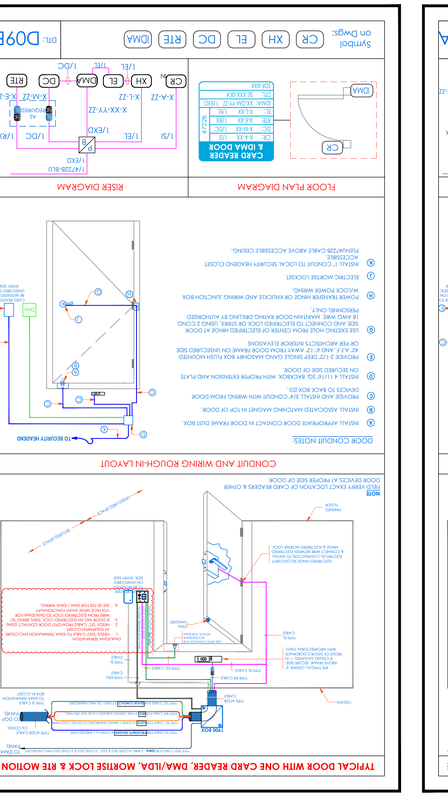

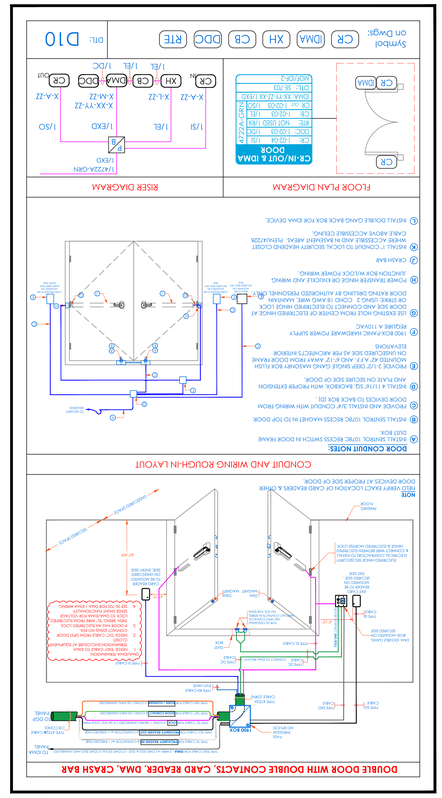

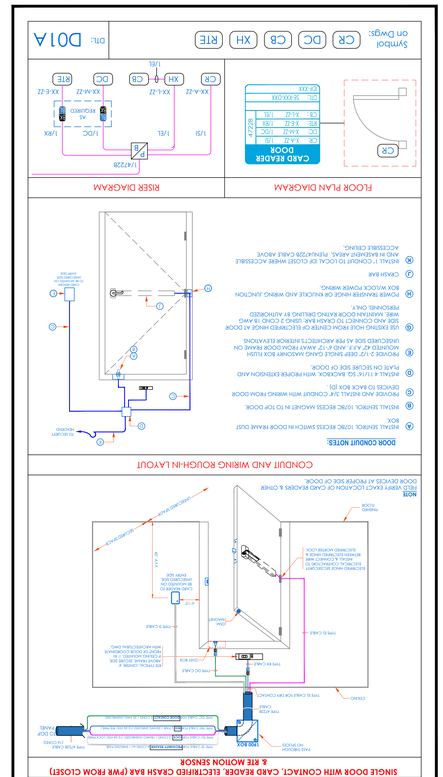

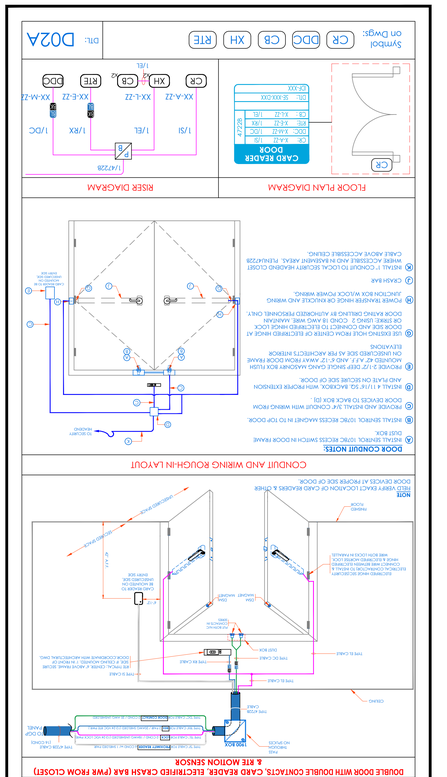

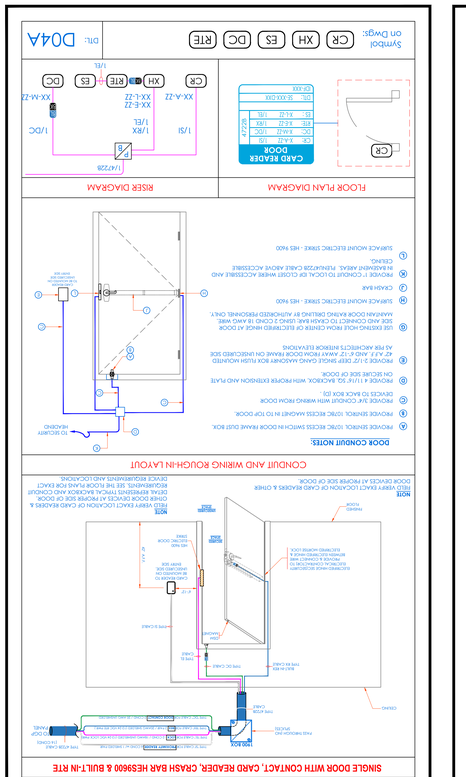

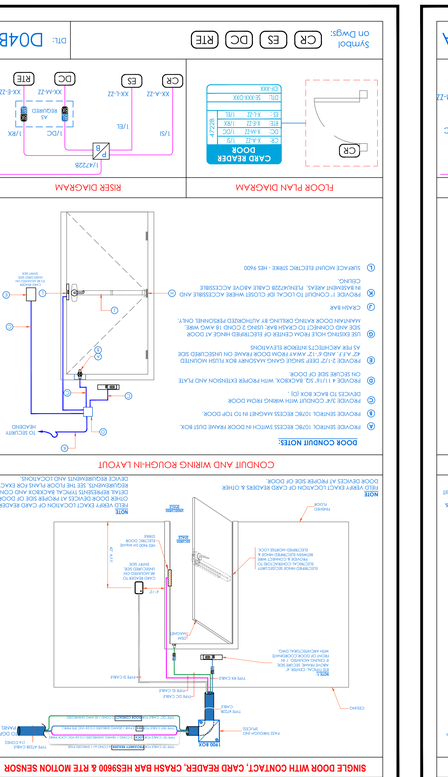

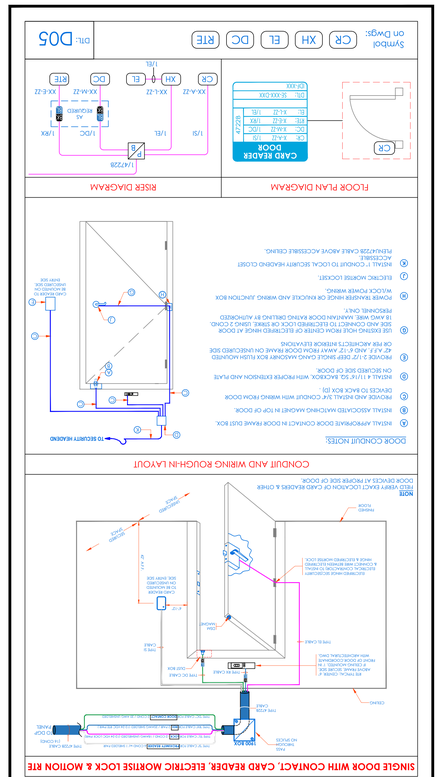

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PROJECT:

MARTIN LUTHER KING JR. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:

SECURITY EQUIPMENT DETAIL 1
DOOR TYPICALS

DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

WORK ORDER NO.:

DATE: 11/25/2019

SCALE: N.T.S.

S.A. NO.: XXXXXX

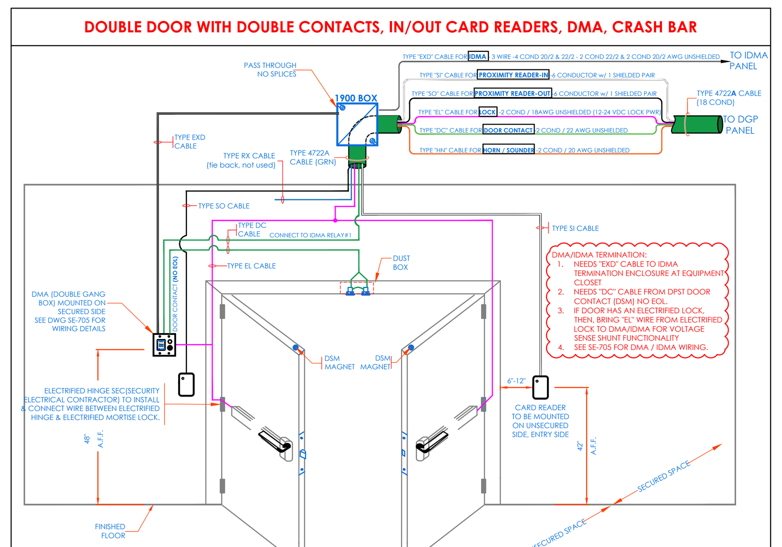
DRAWING NO.: SE-703

ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - ID# 2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 5 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 6 - FOR CONSTRUCTION
12/12/2023	REV 8 - FOR BID

IT&L LIAISON, INC.
155 Corporate Ave
White Plains, NY 10603

DOUBLE DOOR WITH DOUBLE CONTACTS, IN/OUT CARD READERS, DMA, CRASH BAR

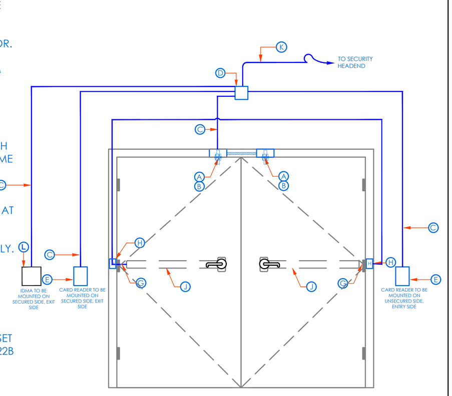


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

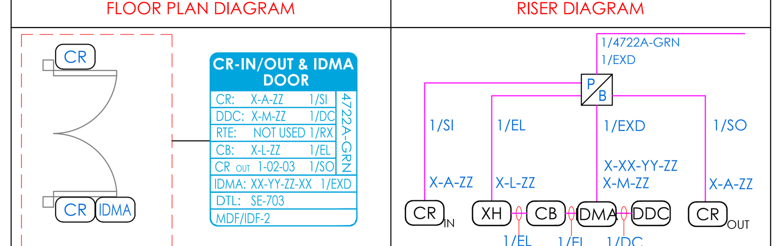
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL SENTROL 1078C RECESS SWITCH IN DOOR FRAME DUST BOX.
- (B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED HINGE LOCK OR STRIKE; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) CRASH BAR
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENU4722B CABLE ABOVE ACCESSIBLE CEILING.
- (L) INSTALL DOUBLE GANG BACK BOX FOR IDMA DEVICE.

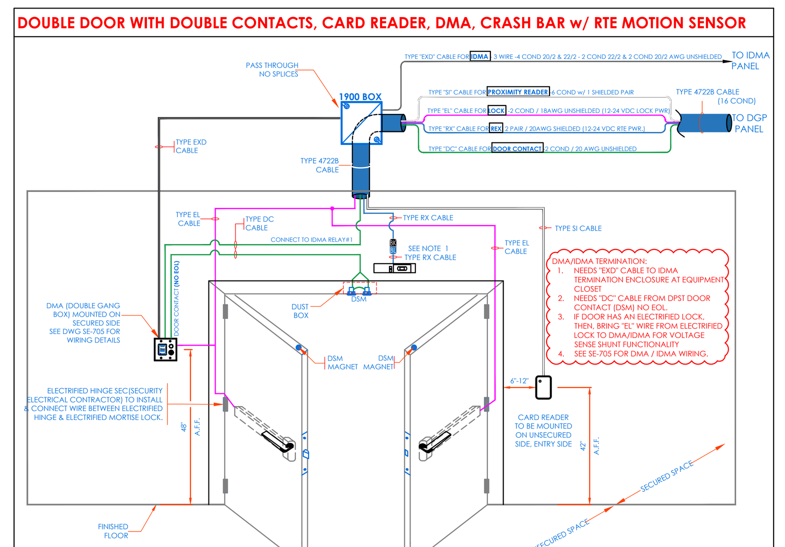


FLOOR PLAN DIAGRAM | RISER DIAGRAM



Symbol on Dwgs: CR IDMA XH CB DDC — DTL: D08A

DOUBLE DOOR WITH DOUBLE CONTACTS, CARD READER, DMA, CRASH BAR w/ RTE MOTION SENSOR

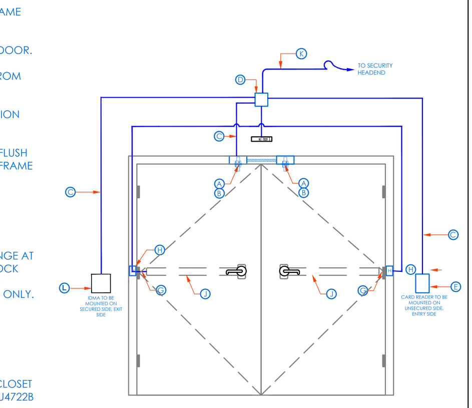


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

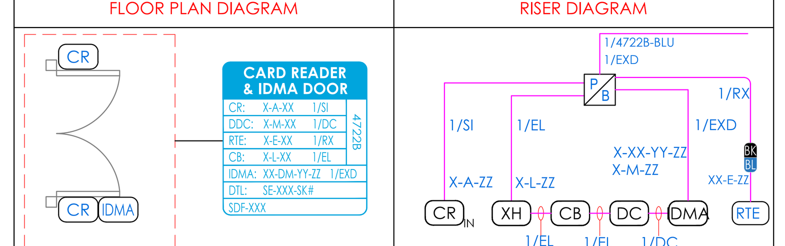
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL SENTROL 1078C RECESS SWITCH IN DOOR FRAME DUST BOX.
- (B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS
- (F) 1900 BOX-PANIC HARDWARE POWER SUPPLY REQUIRE A 110VAC
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED HINGE LOCK OR STRIKE; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) CRASH BAR
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENU4722B CABLE ABOVE ACCESSIBLE CEILING.
- (L) INSTALL DOUBLE GANG BACK BOX FOR IDMA DEVICE.

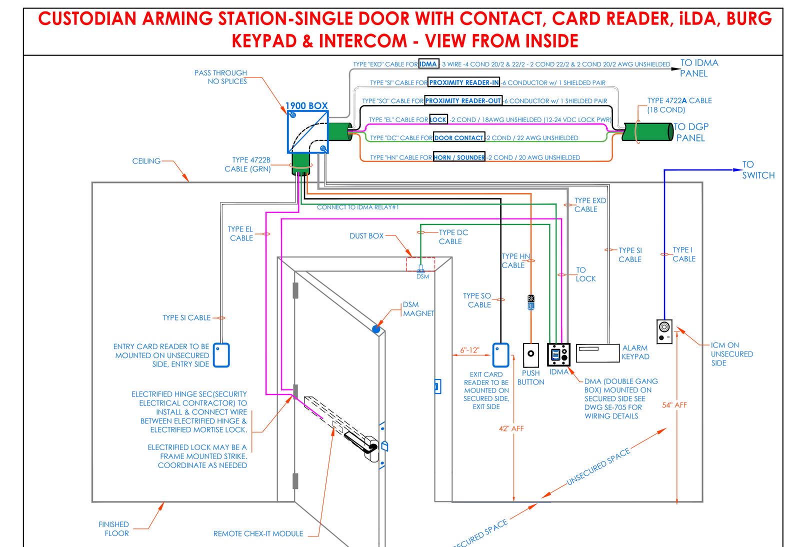


FLOOR PLAN DIAGRAM | RISER DIAGRAM



Symbol on Dwgs: CR IDMA XH CB DDC RTE — DTL: D08B

CUSTODIAN ARMING STATION-SINGLE DOOR WITH CONTACT, CARD READER, iLDA, BURG KEYPAD & INTERCOM - VIEW FROM INSIDE

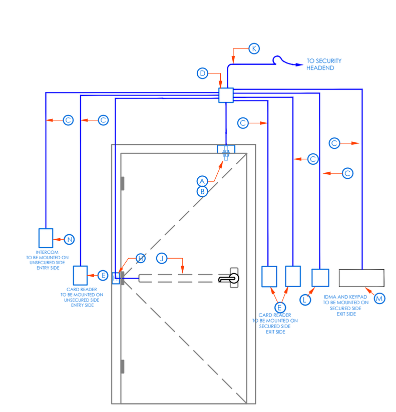


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

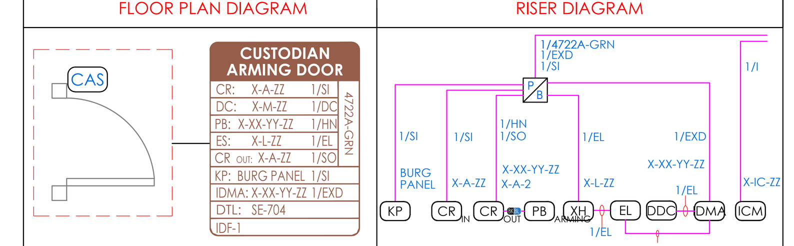
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL SENTROL 1078C RECESS SWITCH IN DOOR FRAME DUST BOX.
- (B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) CRASH BAR
- (K) INSTALL 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENU4722B CABLE ABOVE ACCESSIBLE CEILING.
- (L) INSTALL A DOUBLE GANG BOX FOR THE IDMA
- (M) INSTALL A TRIPLE GANG BOX FOR THE BURG KEYPAD
- (N) INSTALL A TRIPLE GANG BOX FOR THE INTERCOM

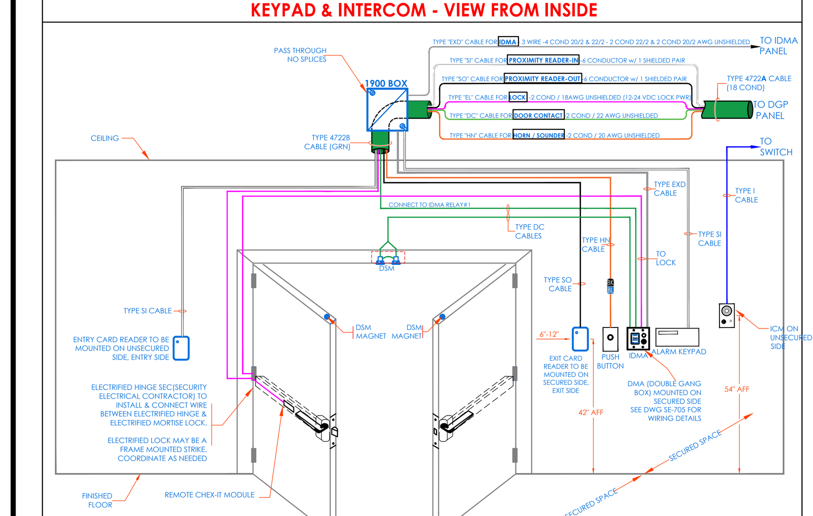


FLOOR PLAN DIAGRAM | RISER DIAGRAM



Symbol on Dwgs: KP CR IN CR OUT PB XH ARMING EL DC DMA ICM — DTL: D11

CUSTODIAN ARMING STATION-DOUBLE DOOR WITH CONTACT, CARD READER, iLDA, BURG KEYPAD & INTERCOM - VIEW FROM INSIDE

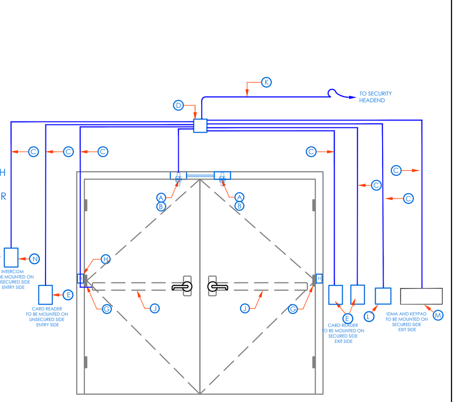


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

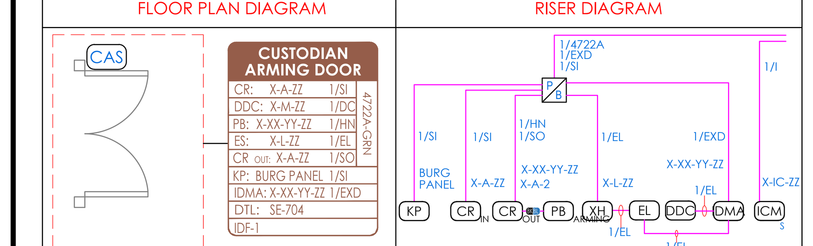
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL SENTROL 1078C RECESS SWITCH IN DOOR FRAME DUST BOX.
- (B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) CRASH BAR
- (K) INSTALL 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENU4722B CABLE ABOVE ACCESSIBLE CEILING.
- (L) INSTALL A DOUBLE GANG BOX FOR THE IDMA
- (M) INSTALL A TRIPLE GANG BOX FOR THE BURG KEYPAD
- (N) INSTALL A TRIPLE GANG BOX FOR THE INTERCOM

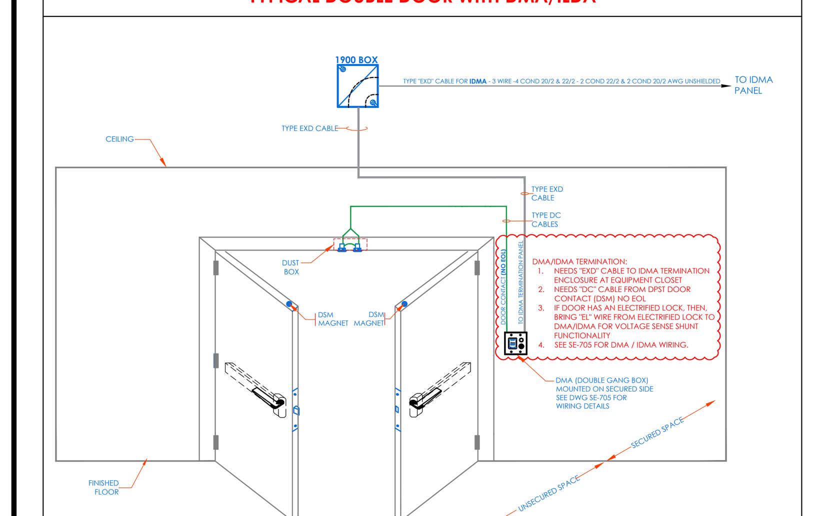


FLOOR PLAN DIAGRAM | RISER DIAGRAM



Symbol on Dwgs: KP CR IN CR OUT PB XH ARMING EL DDC DMA ICM — DTL: D12

TYPICAL DOUBLE DOOR WITH DMA/ILDA

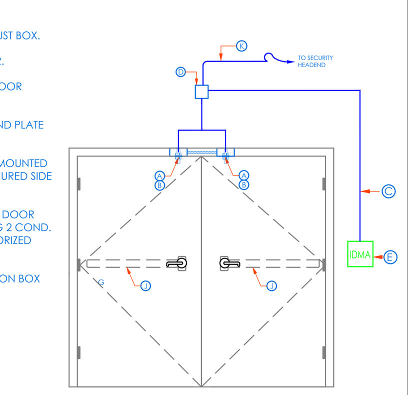


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

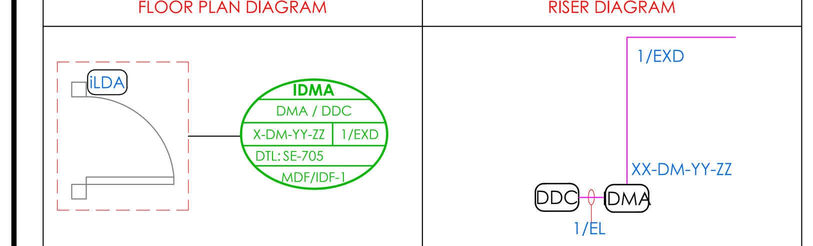
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) INSTALL ASSOCIATED MATCHING MAGNET IN TOP OF DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECT'S INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED LOCK OR STRIKE, USING 2 COND. 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) ELECTRIC MORTISE LOCKSET.
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET ACCESSIBLE. PLENU4722B CABLE ABOVE ACCESSIBLE CEILING.

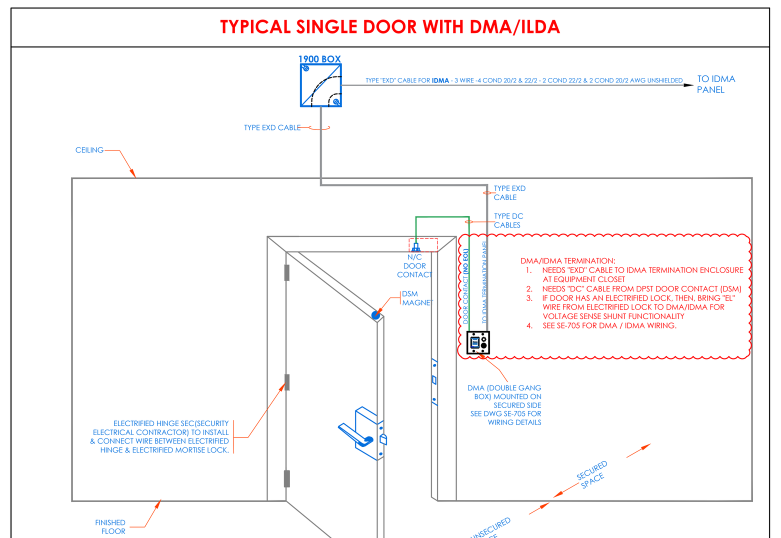


FLOOR PLAN DIAGRAM | RISER DIAGRAM



Symbol on Dwgs: DDC DMA — DTL: D13

TYPICAL SINGLE DOOR WITH DMA/ILDA

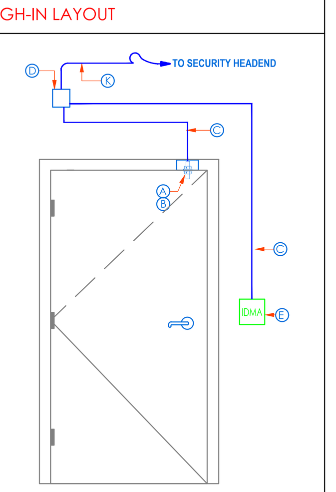


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

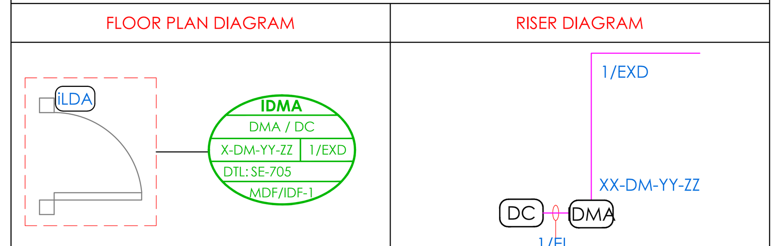
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) INSTALL ASSOCIATED MATCHING MAGNET IN TOP OF DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECT'S INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED LOCK OR STRIKE, USING 2 COND. 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) ELECTRIC MORTISE LOCKSET.
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET ACCESSIBLE. PLENU4722B CABLE ABOVE ACCESSIBLE CEILING.

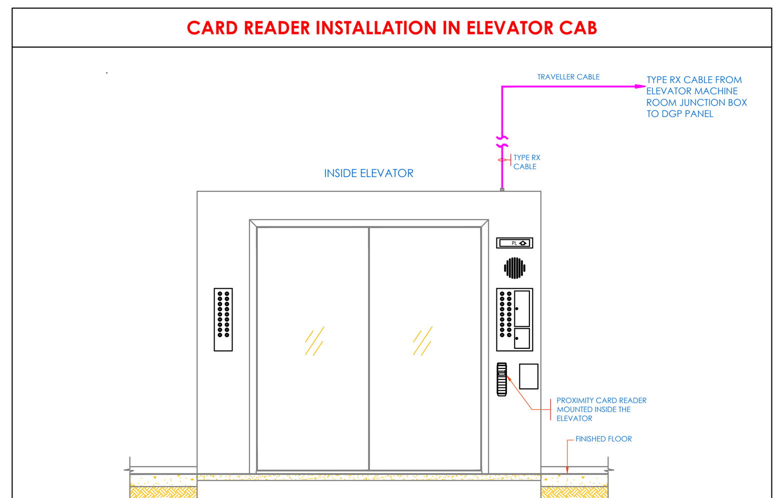


FLOOR PLAN DIAGRAM | RISER DIAGRAM



Symbol on Dwgs: DC DMA — DTL: D14

CARD READER INSTALLATION IN ELEVATOR CAB

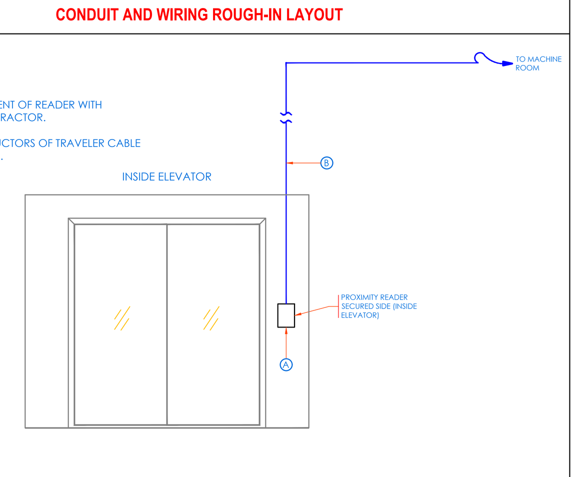


NOTE
-FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT CAB
-COORDINATE WITH ELEVATOR CONTRACTOR FOR FOR MINIMUM OF 3 PR/20AWG IN TRAVELER CABLE.
-COORDINATE CARD READER INSTALLATION INSIDE CAB WITH ELEVATOR CONTRACTOR

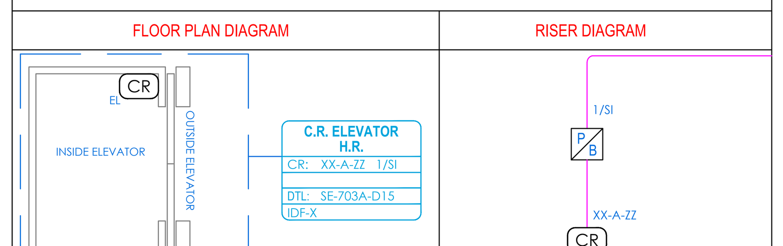
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) COORDINATE EXACT PLACEMENT OF READER WITH ARCHITECT & ELEVATOR CONTRACTOR.
- (B) COORDINATE PROPER CONDUCTORS OF TRAVELER CABLE WITH ELEVATOR CONTRACTOR.

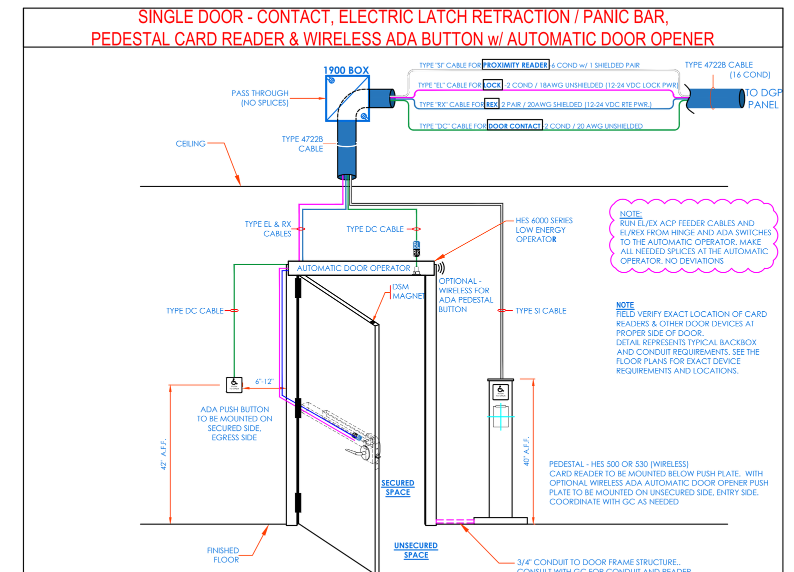


FLOOR PLAN DIAGRAM | RISER DIAGRAM



Symbol on Dwgs: CR EL — DTL: D15

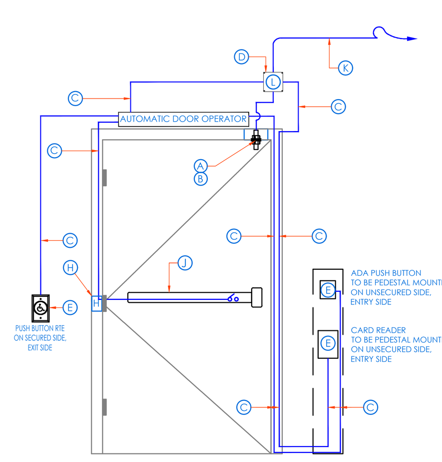
SINGLE DOOR - CONTACT, ELECTRIC LATCH RETRACTION / PANIC BAR, PEDESTAL CARD READER & WIRELESS ADA BUTTON w/ AUTOMATIC DOOR OPENER



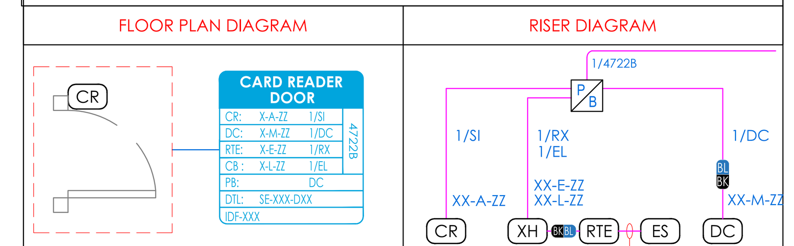
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) PROVIDE SENTROL 1078C RECESS SWITCH IN DOOR FRAME DUST BOX.
- (B) PROVIDE SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) PROVIDE 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) SURFACE MOUNT ELECTRIC STRIKE - HES 9600
- (J) CRASH BAR
- (K) PROVIDE 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENU4722B CABLE ABOVE ACCESSIBLE CEILING.
- (L) SURFACE MOUNT ELECTRIC STRIKE - HES 9600

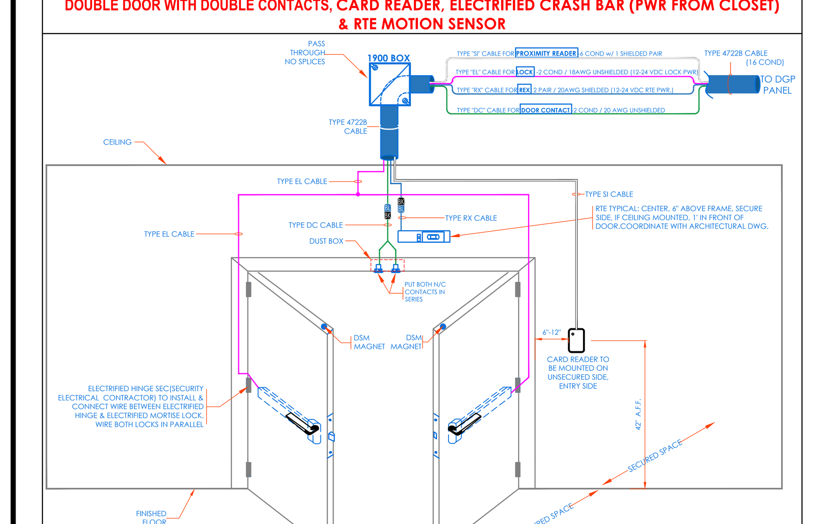


FLOOR PLAN DIAGRAM | RISER DIAGRAM



Symbol on Dwgs: CR XH ES DC AO — DTL: D16

DOUBLE DOOR WITH DOUBLE CONTACTS, CARD READER, ELECTRIFIED CRASH BAR (PWR FROM CLOSET) & RTE MOTION SENSOR



NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL SENTROL 1078C RECESS SWITCH IN DOOR FRAME DUST BOX.
- (B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
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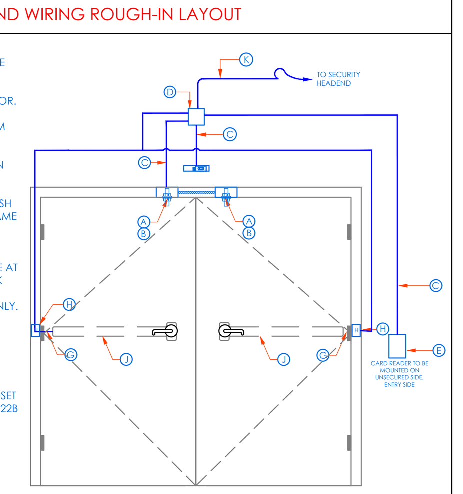
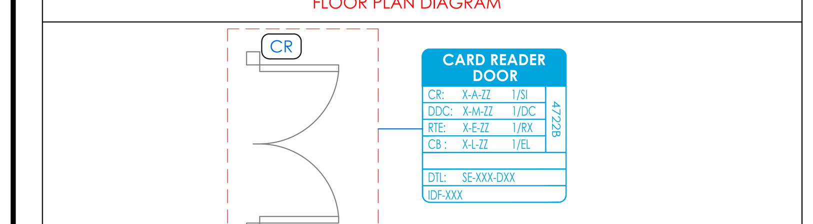
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) CRASH BAR
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENU4722B CABLE ABOVE ACCESSIBLE CEILING.

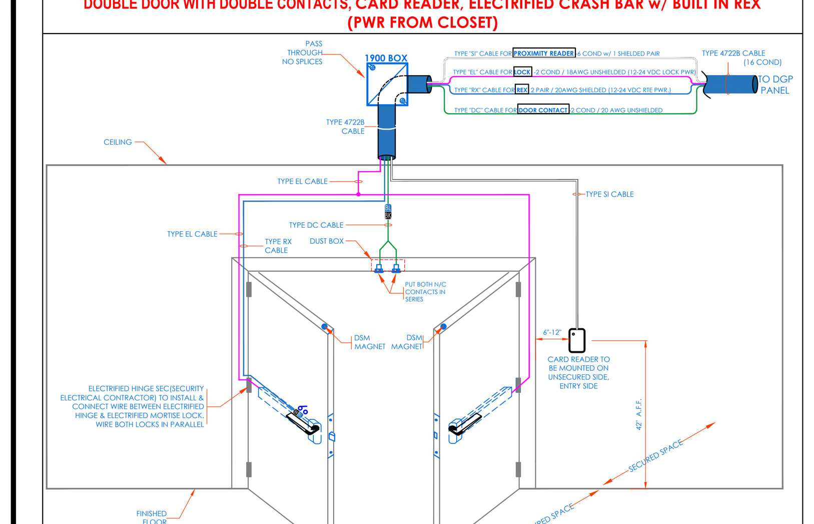


FLOOR PLAN DIAGRAM



Symbol on Dwgs: CR DDC CB XH RTE — DTL: D03

DOUBLE DOOR WITH DOUBLE CONTACTS, CARD READER, ELECTRIFIED CRASH BAR w/ BUILT IN REX (PWR FROM CLOSET)

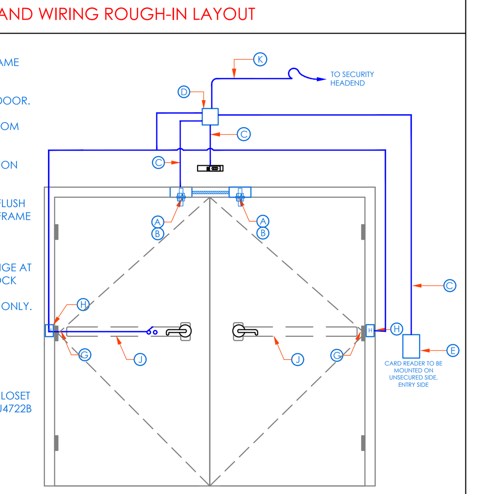


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

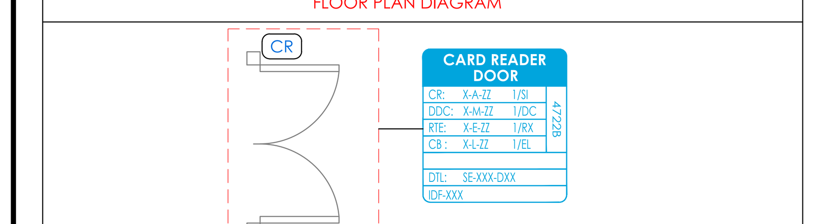
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL SENTROL 1078C RECESS SWITCH IN DOOR FRAME DUST BOX.
- (B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED HINGE LOCK OR STRIKE; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) CRASH BAR
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENU4722B CABLE ABOVE ACCESSIBLE CEILING.



FLOOR PLAN DIAGRAM



Symbol on Dwgs: CR DDC CB XH RTE — DTL: D03

ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - IDF-2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 5 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 6 - FOR CONSTRUCTION
12/12/2023	REV 8 - FOR BID

ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

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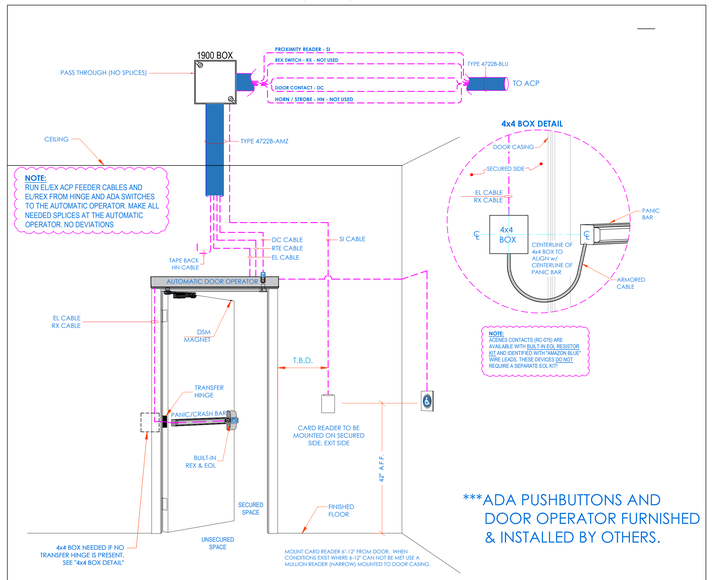
PROJECT:
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:
SECURITY EQUIPMENT DETAIL 1A
DOOR TYPICALS

XX	XX	XX
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: XXXXXX — DATE: 11/25/2019
SCALE: N.T.S.
S.A. NO: XXXXXX — DRAWING NO: SE-703A

SINGLE DOOR - CONTACTS, ELECTRIC LATCH RETRACTION / PANIC BAR, IN/OUT CARD READERS & ADA BUTTONS -IN/OUT w/ AUTOMATIC DOOR OPENER

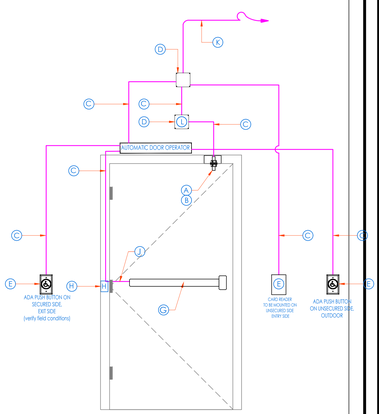


***ADA PUSHBUTTONS AND DOOR OPERATOR FURNISHED & INSTALLED BY OTHERS.

CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

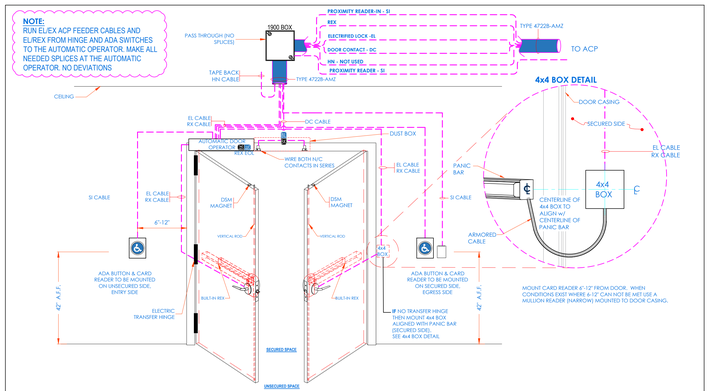
- (A) PROVIDE APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) PROVIDE ASSOCIATED MATCHING MAGNET IN TOP OF DOOR.
- (C) PROVIDE 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
- (D) PROVIDE 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6'-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECTS INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED LOCK OR STRIKE. USING 2 COND. 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) ELECTRIC MORTISE LOCKSET WITH BUILT IN RTE SWITCH.
- (K) 1" [25] EMT CONDUIT TO STRUCTURE OR TO ACCESSIBLE CEILING SPACE. HOME RUN CABLING TO AREA SERVING ACP. PROVIDE OPEN CABLING PATHWAY SUPPORTS AS REQUIRED
- (L) SIREN



Symbol on Dwgs: (CR)IN (CR)OUT (DC) (EL) (ADA)IN (ADA)OUT (AO)

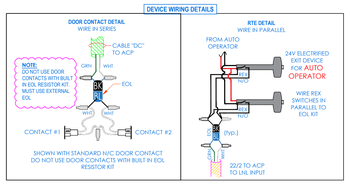
DTL: D16

DOUBLE DOORS - CONTACTS, ELECTRIC LATCH RETRACTION / PANIC BAR, IN CARD READERS & ADA BUTTONS -IN/OUT w/ AUTOMATIC DOOR OPENER



***ADA PUSHBUTTONS AND DOOR OPERATOR FURNISHED & INSTALLED BY OTHERS.

DEVICE WIRING DETAILS



CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) PROVIDE APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) PROVIDE ASSOCIATED MATCHING MAGNET IN TOP OF DOOR.
- (C) PROVIDE 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
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- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
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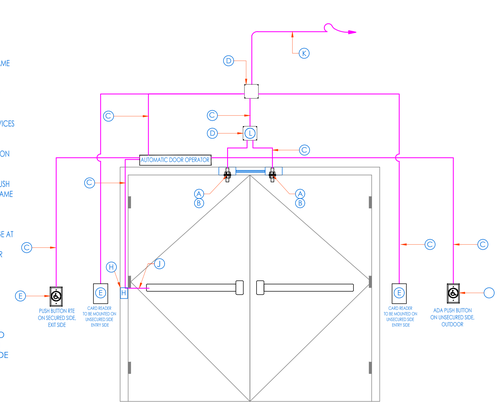
- (L) SIREN



Symbol on Dwgs: (CR)IN (CR)OUT (DDC) (EL) (ADA)IN (ADA)OUT (AO)

DTL: D17

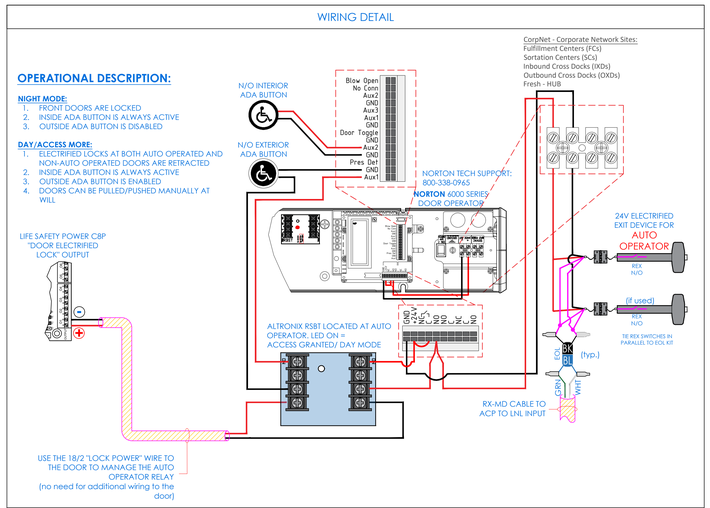
FRONT DOORS EMERGENCY LOCK FOR NON-CORPNET SITES - NORTON 6011/6051 SERIES POWER OPERATOR

WIRING DETAIL

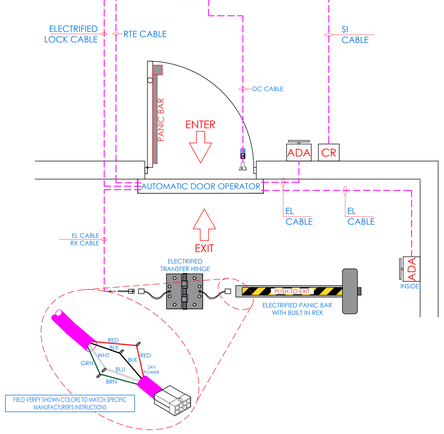
OPERATIONAL DESCRIPTION:

NIGHT MODE:
1. FRONT DOORS ARE LOCKED
2. INSIDE ADA BUTTON IS ALWAYS ACTIVE
3. OUTSIDE ADA BUTTON IS DISABLED

DAY/ACCESS MORE:
1. ELECTRIFIED LOCKS AT BOTH AUTO OPERATED AND NON-AUTO OPERATED DOORS ARE RETRACTED
2. INSIDE ADA BUTTON IS ALWAYS ACTIVE
3. OUTSIDE ADA BUTTON IS ENABLED
4. DOORS CAN BE PULLED/PUSHED MANUALLY AT WILL



MAKE SURE TO FOLLOW THESE WIRING DETAILS. ALL SPLICES TO BE MADE AT THE AUTOMATIC OPERATOR



Symbol on Dwgs: (AO)

DTL: D18

ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - IDF-2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 5 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 6 - FOR CONSTRUCTION
12/12/2023	REV 8 - FOR BID

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PROJECT:

MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

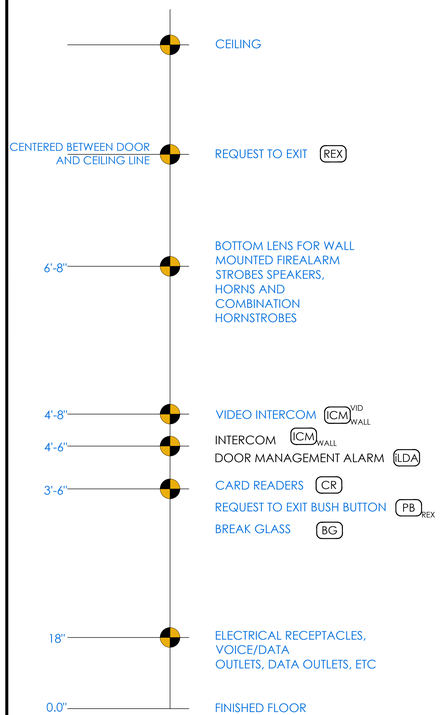
TITLE:

SECURITY EQUIPMENT DETAIL 1B DOOR TYPICALS

DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

WORK ORDER NO: XXXXXX	DATE: 11/25/2019
	SCALE: N.T.S.
S.A. NO: XXXXXX	DRAWING NO: SE-703B

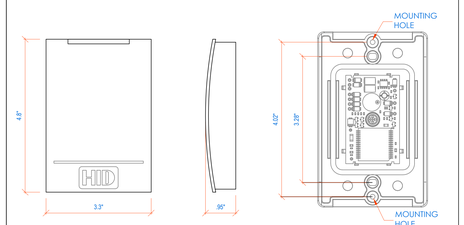
MOUNTING HEIGHT NOTES

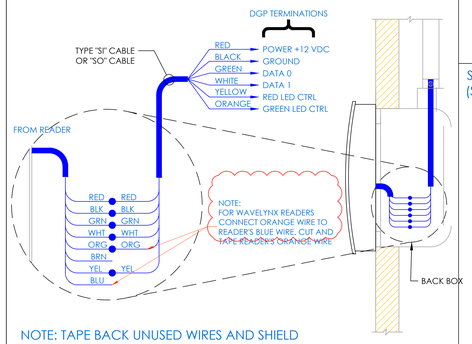


NOTE:
FIELD VERIFY WITH LOCAL ADA REQUIREMENTS

HID RP40-MULTI CLASS CARD READER

DEVICE TERMINATION AND DIMENSION



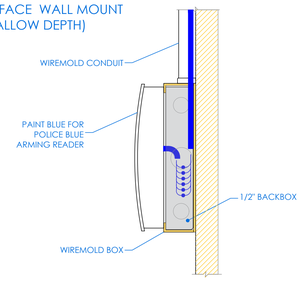


NOTE: TAPE BACK UNUSED WIRES AND SHIELD

SPECIFICATIONS

Typical maximum* read range	: ProxCard II card - up to 5.5" (14 cm) ISOProx II card - up to 5" (12.7 cm) DuoProx II card - up to 5" (12.7 cm) Smart ISO/DuoProx cards - up to 5" (12.7 cm) Proximity & MIFARE card - up to 5" (12.7 cm) ProxCard Plus card - up to 1.5" (3.8 cm) ProxKey II key fob - up to 2" (5.1 cm) Microprox Tag - up to 3" (7.6 cm) *Depending on local installation conditions.
Dimensions	: 4.70" x 3.00" x 0.68" (11.9 x 7.6 x 1.7 cm)
Material	: Polycarbonate UL 94
Power supply	: 5-16 VDC Linear power supplies are recommended.
Current requirements	: Average: 30 mA (5 VDC); 20 mA (12 VDC) Peak: 110 mA (5 VDC); 115 mA (12 VDC)
Operating temperature	: -22° to 150° F (-30° to 65° C)
Operating humidity	: 0-95% relative humidity non-condensing
Weight	: 3.3 oz. (94 gm)
Transmit frequency	: 125 kHz
Excite frequency	: 125 kHz
Cable distance	: Wiegand interface: 500 feet (150 m) Clock-and-data interface: 50 feet (15 m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for LED or beeper control.

SURFACE WALL MOUNT (SHALLOW DEPTH)

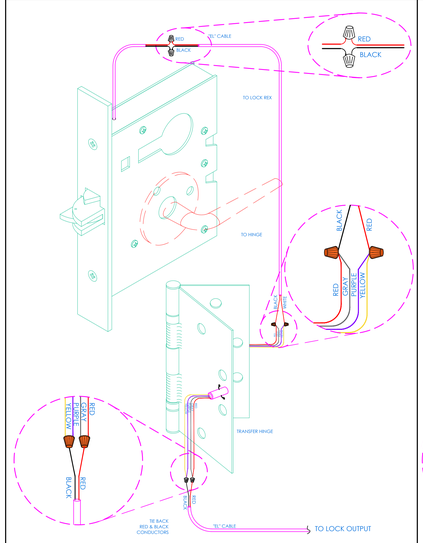


Symbol on Dwgs: (CR) AND (CR POLICE BLUE ARMING)

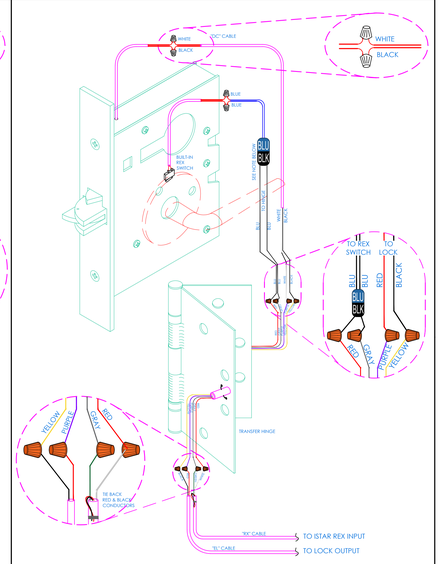
DTL: A01

SCHLAGE - ELECTRIFIED L SERIES

LOCK ONLY



LOCK w/ BUILT IN REX



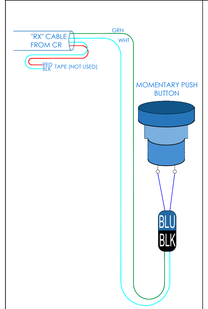
FOR LOCKS EQUIPPED WITH BUILT IN NORMALLY OPEN (N/O) REX SWITCH - ADD EOL RESISTOR, CONNECT GRI EOL KIT SUCH AS THE BLUE WIRES CONNECT TO THE LOCK AND BLACK WIRES CONNECT TO WH/GR OF "A" CABLE

Symbol on Dwgs: EL XH

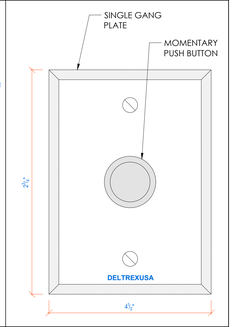
DTL: A03

CAS PUSH BUTTON w/ SINGLE GANG PLATE

DEVICE CONNECTION



DEVICE DETAILS

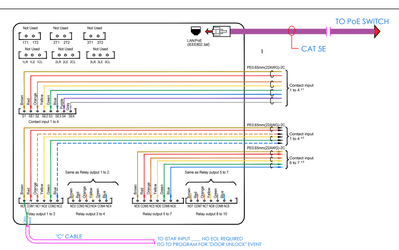


Symbol on Dwgs: CAS

DTL: A05

AIPHONE INTERCOM RELAY P/N: IXW-MA

DEVICE CONNECTION

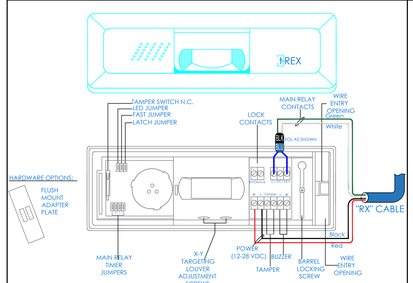


Symbol on Dwgs: ICM

DTL: A06

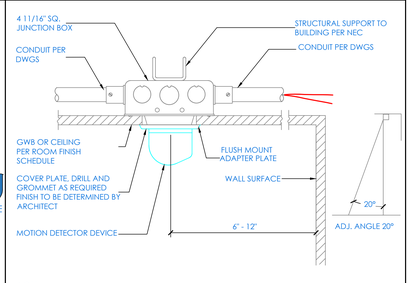
T-REX EXIT DETECTOR

DEVICE DETAIL



NOTE:
USE EOL DEVICE (END OF LINE RESISTOR) AS INDICATED ON RISER DIAGRAM IF APPLICABLE FOR LINE SUPERVISION. LOCATE EOL AT DEVICE END

CEILING MOUNTING

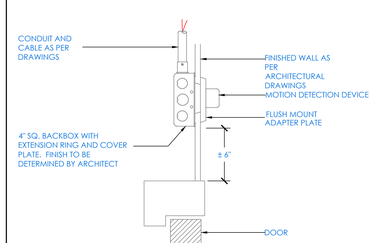


NOTE:
MOUNT REQUEST TO EXIT MOTION DETECTOR IN CEILING, PARALLEL TO DOOR, WHEN DOOR IS IN THE CLOSED POSITION.

SPECIFICATIONS

Detector Type	: Passive Infrared
Filter Technology	: Digital Signal Processing (DSP)
Detector Lens	: Curtain Type Fresnel Lens
Detection Range	: One hand: 3m(10ft) Whole Body :6m(20ft)
Power Consumption	: 12-28 VDC,50mA
Piezo Buffer	: 90 dB at 28VDC,5-28 VDC ,20mA(XL & XL2 only)
Main Relay contacts	: SPDT,1A max. @30VDC max
Main relay recycle time	: Adjustable,1/2 to 60 seconds
Main relay recycle time	: Fixed,3/4 second off
Lock control relay	: Available on LT2 and XL2 models only, solid state relay,N.C: 2A max.@30VDC,Timed at 2seconds fixed
Tamper Switch	: N.C: 100mA max.@30 VDC max.
Dimensions (H.W.D.)cm Dimensions (H.W.D.)in.	: 19x4.5 x4.75 : 7-1/8x1-3/4x1-7/8
Indicator light	: Red/Green LED
Certifications	: UL294,CE,FCC

WALL MOUNTING



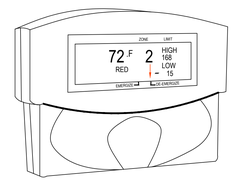
NOTE:
DEVICE CENTERLINE SHALL MATCH CENTERLINE OF DOOR

Symbol on Dwgs: (MS) S= SURFACE

DTL: A02

WINLAND
EA-200-12 & EA-200-24 TEMPERATURE SENSOR

DEVICE DETAIL



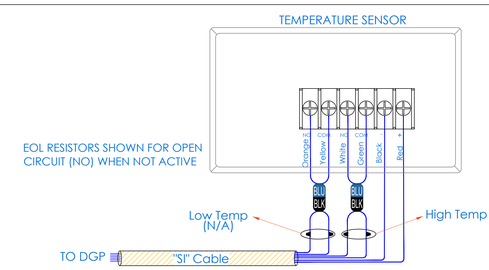
EA200-12 & EA200-24

SPECIFICATIONS

DUAL ZONE MONITORING WITH ON-BOARD TEMPERATURE SENSOR & INPUTFOR ONE OPTIONAL REMOTE TEMPERATURE, HUMIDITY OR WATER SENSOR.

Dimensions:	6.0" x 4.75 x 1.25
Weight: .	55 lb
Lo & Hi Limit Adjust Range:	-58 to 299° F
Input Voltage: EA200-12:	12 VDC @ <120mA
Input Voltage: EA200-24:	24 VDC @ <120mA
Remote sensor inputs:	1
On-Board sensor:	1
Unit Operating Range:	+32 to 122° F
Alarm Outputs: (Configurable)	2 - SPDT Relays
Auxiliary Audible Alarm Output: (Non-configurable)	1 - SPDT Relays
Case Material:	ABS

TERMINATION



Symbol on Dwgs: TMP

DTL: A04

ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - IDF-2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 5 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 6 - FOR CONSTRUCTION
12/12/2023	REV 8 - FOR BID

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PROJECT:
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

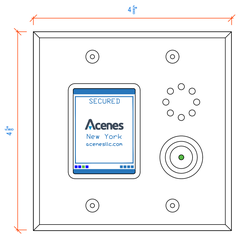
TITLE:
SECURITY EQUIPMENT DETAIL 2
ACCESS DEVICE TYPICALS

DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

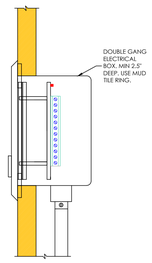
WORK ORDER NO: XXXXXX
DATE: 11/25/2019
SCALE: N.T.S.
S.A. NO: XXXXXX
DRAWING NO: SE-704

ACENES,LLC - IDMA
INTELLIGENT DOOR MANAGEMENT ALARM

DEVICE DETAIL



ELECTRICAL BACKBOX



SPECIFICATIONS

Model: INTELLIGENT DOOR MANAGEMENT ALARM (IDMA)

Input Voltage: Range of 12-24 VDC

Mounting: 2-Gang, min 2 1/2" deep electrical box

Terminal strips: 2 x 12 pin fixed terminal strips accept up to 18 AWG wires

Alarm sounder

Voltage rating: @95 dB or 105dB

Pulsing tones indicate warning alarm

Decibel(dB) level is programmable

Time Delays

Access delay: Shunts the alarm function for the duration of the delay.

Warning delay: Sets the duration of the warning alarm.

Alarm automatic reset delay: Sets the duration of an alarm if the automatic reset feature is enabled.

Operational Functions:The IDMA display will show various device status via the LCD display

GET IT ON Google Play

Download on the App Store

VISIT THE APP STORE - DOWNLOAD **ACENES IDMA APP**

Acenes

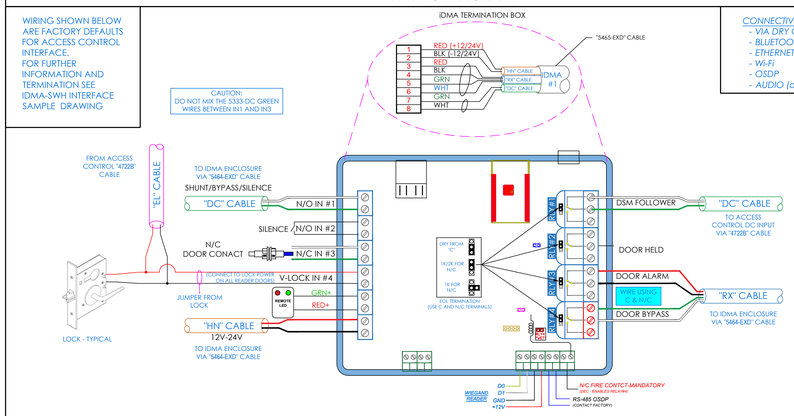
Scan for App

WIRING DIAGRAM

WIRING SHOWN BELOW ARE FACTORY DEFAULTS FOR ACCESS CONTROL INTERFACE. FOR FURTHER INFORMATION AND TERMINATION SEE IDMA-SWH INTERFACE SAMPLE DRAWING

CAUTION: DO NOT MIX THE 5333-DC GREEN WIRES BETWEEN IN1 AND IN3

CONNECTIVITY:
- *VIA DRY CONTACTS*
- *BLUETOOTH*
- *ETHERNET*
- *WI-FI*
- *OSDP*
- *AUDIO (optional)*

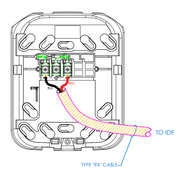


Symbol on Dwgs: IDMA

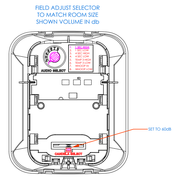
DTL: A06

SYSTEM SENSOR - 60dB
HORN/STROBE - PROFESSIONAL SERIES P/N: CHSWL

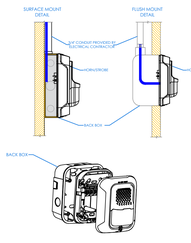
MOUNTING PLATE DETAIL & WIRING



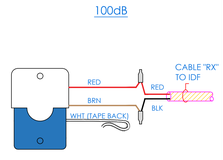
SWITCH SETTINGS



MOUNTING



100dB HORN/STROBE WIRING



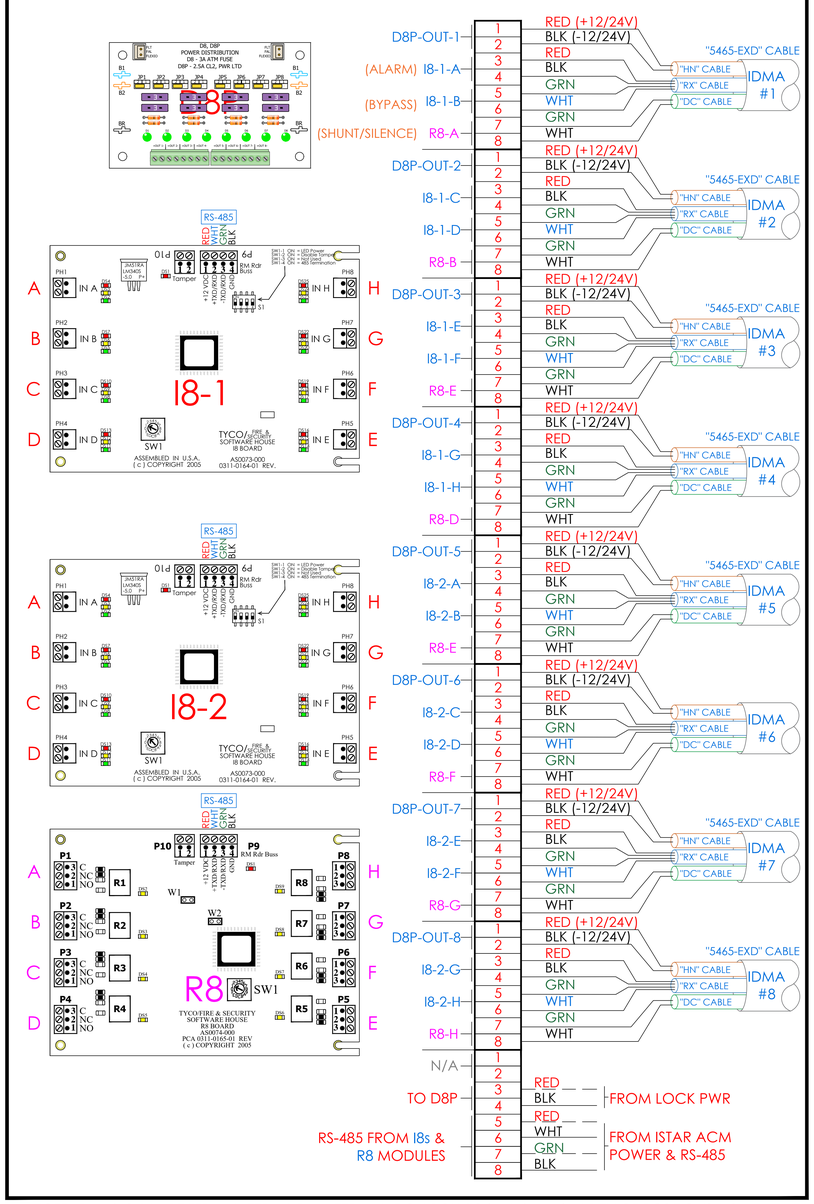
Symbol on Dwgs: BZ S

DTL: A10

IDMA TERMINATIONS
ILDA/ IDMA DOORS 1-8

DM-T

INTERNAL WIRING OF THIS CONTROL TERMINATION BOX WILL BE PERFORMED AND DELIVERED BY ITG. CONTRACTOR TO TERMINATE 8 CONDUCTOR ("5465-EXD") CABLE AS PER SHOWN COLOR CODED TERMINALS



NOTE: IDMA's 9-16 ARE TERMINATED IN IDMA TERMINATION BOX #2 (not shown) IN DEVICE POSITIONS 1-8.
SEE SE-300 CLOSET DETAILS FOR MOUNTING OF BOXES 1&2. SEE ILDA/DMA TERMINATION MATRIX THIS PAGE

IDMA TERMINATION MATRIX

DMA

IDMA TERMINATION MATRIX

CLOSET	BOX	PORT	CAD	LOCATION
IDF - 1	ENCLOSURE - 1	1	G-E1-01	G01 TO HALLWAY GC-1
		2	G-E1-02	EAST ENTRANCE NEAR CLASSROOM #8
		3	G-E1-03	STAIRWELL S2
		4	G-E1-04	STAIRWELL S2
		5	G-E1-05	G01
		6	1-E1-06	BOILER ROOM 102
		7	1-E1-07	STAIR S1
		8	2-E1-08	VESTIBULE 201 (CAS)
	ENCLOSURE - 2	1	2-E2-01	CENTER ENTRANCE
		2	2-E2-02	HALLWAY / LOBBY C2-5
		3	2-E2-03	COURTYARD (EAST)
		4	2-E2-04	0225 STORAGE
		5	2-E2-05	COURTYARD (WEST)
		6	SPARE	
		7	SPARE	
		8	SPARE	

ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - IDF-2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 5 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 6 - FOR CONSTRUCTION
12/12/2023	REV 8 - FOR BID

ITG Larson,Inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

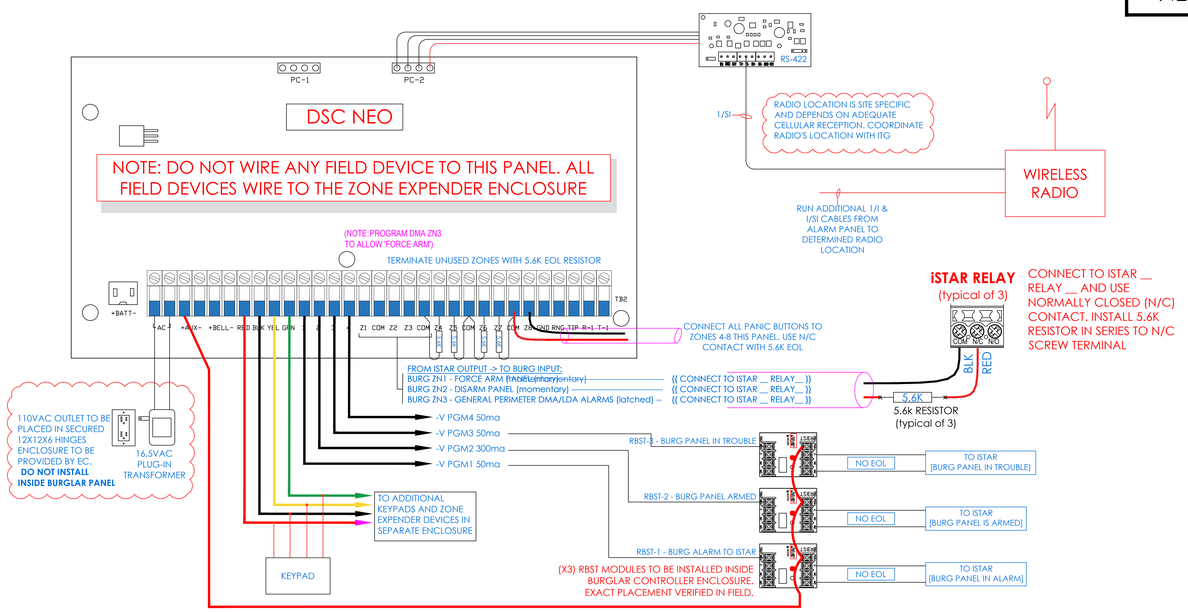
TITLE:
SECURITY EQUIPMENT DETAIL 3
iLDA DEVICE TYPICALS

DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

WORK ORDER NO: XXXXXX
DATE: 11/25/2019
S.A. NO: XXXXXX
SCALE: N.T.S.
DRAWING NO: SE-705

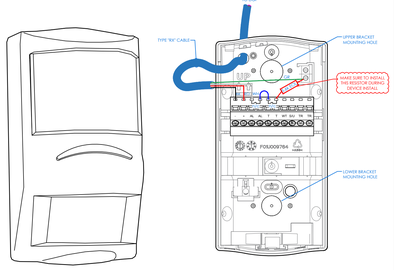
DSC NEO PANEL

NEO

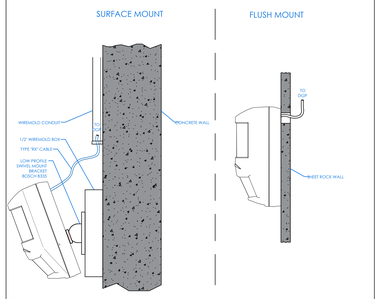


BOSCH
PROFESSIONAL SERIES P/N: ISC-PDL1-W18G

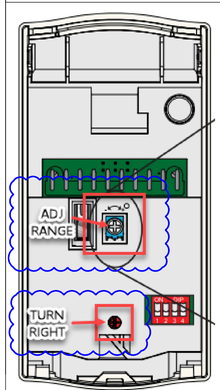
DEVICE DETAIL



MOUNTING



RANGE SETTINGS



3.0 Switch Settings

3.1 Switch 1 - Walk Test

ON / OFF

ON DIP 1 2 3 4

Switch 1	Voltage on WT Terminal	Walk Test
ON	0	ON
ON	+12	OFF
OFF	0	OFF
OFF	+12	ON

The Remote Self Test automatically occurs when the walk test changes from a disabled to enabled by a change in the voltage on the WT terminals.

A passing Remote Self Test responds with an alarm signal.

The Remote Self Test must be connected to 0 or +12 VDC on UL listed Control Panels.

3.2 Switch 2 - Alarm Memory Polarity

ON / OFF

ON DIP 1 2 3 4

Switch 2	Voltage on S/U Terminal	Alarm Memory
ON	+12	ON (Locked)
ON	0	OFF (Unlocked)
OFF	0	ON (Locked)
OFF	+12	OFF (Unlocked)

The Alarm Memory must be connected to 0 or +12 VDC on UL listed control panels.

3.3 Switch 3 - Short Range/ Long Range

ON / OFF

ON DIP 1 2 3 4

Switch 3	Range	Distance
ON	Short	25 ft (8 m)
OFF	Long	60 ft (18 m)

3.4 Switch 4 - Antimask ON/ Antimask OFF

ON / OFF

ON DIP 1 2 3 4

Switch 4	Antimask
ON	ON
OFF	OFF

When Antimask is ON, items placed within 1 ft (30 cm) of the detector are detected. The detector closes the Trouble contact (terminals marked "TR") 30 sec after the detector is blocked.

4.0 LED Indicators

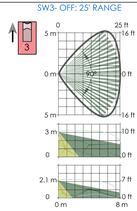
Color	Indication	Function
Blue	Steady ON	New alarm detected
Yellow	Steady ON	Microwave detection
Red	Steady ON	PIR Detection
Blue	Flashing	Detector warming up. (Up to 2 minutes)
Blue	Flashing 1/4 sec ON, 1/4 sec OFF	Alarm Memory
Blue	3 Flashes	Antimask Detected
Blue	4 Flashes	Self Test/ Self Test failure
Blue	5 Flashes	Low Input Power

Mounting
- The recommended mounting height is 2 m to 3 m (7 ft to 10 ft) with no adjustments required.
- Mount the motion detector level, both horizontally and vertically.

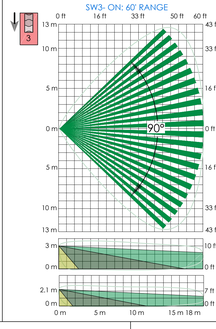
Mounting options:
- On a flat wall with the optional B335-3 Swiveling Low-profile mount, or with the optional B328 Gimbal-mount racket
- In a corner (the junction of two perpendicular walls)
- On the ceiling with the optional B338 Universal Ceiling-mount Bracket

Adjustments:
- Turn 'Walk Test' SW1 on
- Field adjust range (25' or 60') via SW3
- Adjust Microwave range via rotary pot for optimum range
- disable 'pet' detection by rotating red knob to RIGHT
- Turn 'Walk Test' SW1 on

SW3- OFF: 25' RANGE



SW3- ON: 60' RANGE



DEFAULT SETTINGS
ON DIP
1 2 3 4
OFF

Symbol on Dwgs: MS

DTL: A08

BURGLAR ALARM ZONE DETAIL
(TO BE FILLED BY INSTALLING CONTRACTOR)

SEE ZONE TERMINATION ENCLOSURE (BA-X) THIS PAGE

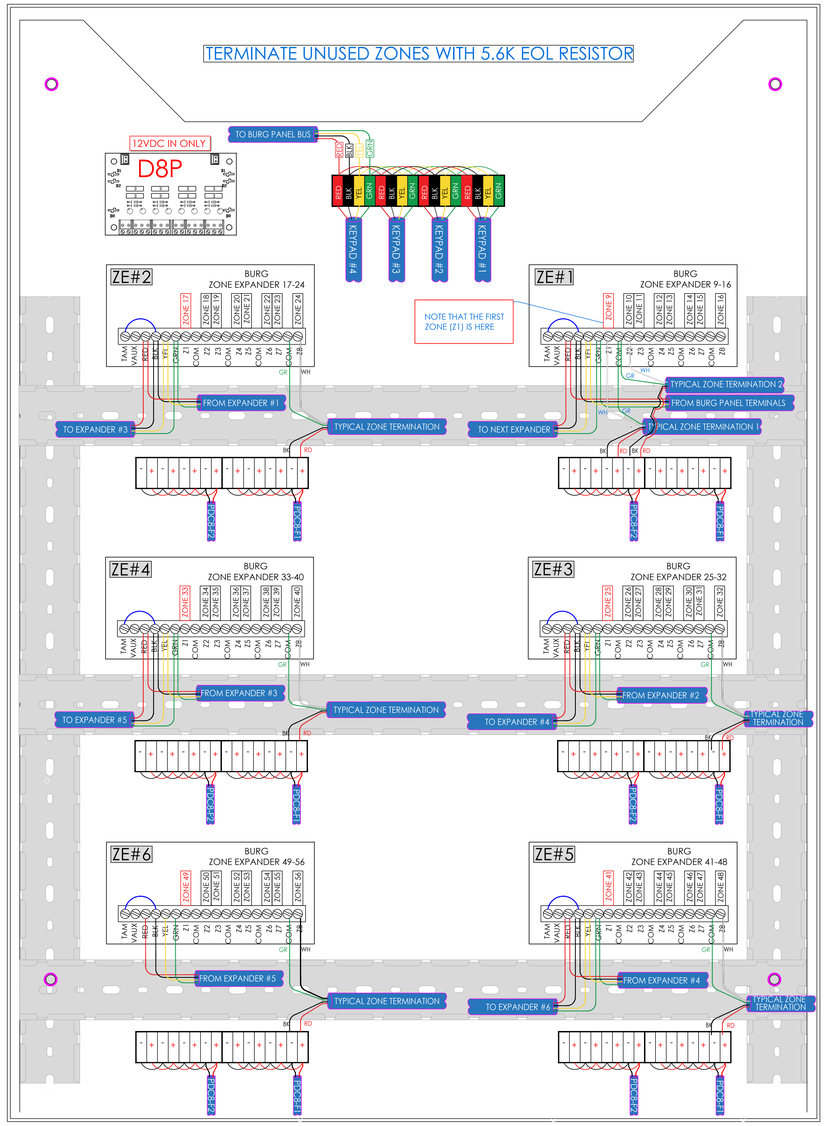
BA-Z

BURGLAR ALARM TERMINATION MATRIX

	PORT	ZONE	DEVICE TAG	LOCATION
PANEL		1	NEED 5.6k	Force-Arm panel. Momentary contact from iStar
		2	NEED 5.6k	Disarm panel. Momentary contact from iStar
		3	NEED 5.6k	IDMA Door Alarm - Dry Contact from iStar
		4	2-PA-04	SECURITY DESK
		5	2-PA-05	MAIN OFFICE
		6	2-PA-06	PRINCIPALS OFFICE
		7	2-PA-07	MAIN OFFICE
		8	SPARE	
		RBST RLY 1	NO EOL	Burg "ALARM" notification to iStar
		RBST RLY 2	NO EOL	"ARMED" Status to iStar (to reset IDMA shunt)
		RBST RLY 3	NO EOL	Burg "TROUBLE" notification to iStar
		SIREN	G-S-01	HALLWAY GC-1
		SIREN	1-S-02	HALLWAY C1-1
		SIREN	2-S-03	HALLWAY C2-1
		SIREN	SPARE	
		SIREN	SPARE	
		KPD PNL		
		KPD CAS	2-KPDCAS	VESTIBULE 201
		5G RADIO	2-5GRAD	
ZE #1	Z1	9	G-ZE1-01	G01
	Z2	10	G-ZE1-02	HALLWAY GC-1
	Z3	11	G-ZE1-03	HALLWAY GC-2
	Z4	12	G-ZE1-04	HALLWAY GC-1 (WEST)
	Z5	13	1-ZE1-05	HALLWAY C1-1 (WEST)
	Z6	14	1-ZE1-06	BOILER ROOM 102
	Z7	15	1-ZE1-07	HALLWAY C1-1
	Z8	16	1-ZE1-08	HALLWAY C1-2
ZE #2	Z1	17	2-ZE2-01	AUDITORIUM/CAFETERIA 204
	Z2	18	2-ZE2-02	HALLWAY / LOBBY C2-5
	Z3	19	2-ZE2-03	HALLWAY
	Z4	20	2-ZE2-04	HALLWAY C2-1
	Z5	21	2-ZE2-05	HALLWAY C2-1 (WEST)
	Z6	22	2-ZE2-06	AUDITORIUM/CAFETERIA 204
	Z7	23	2-ZE2-07	LOBBY C2-3
	Z8	24	2-ZE2-08	VESTIBULE 201

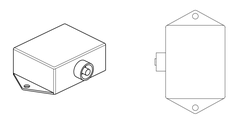
BURGLAR ALARM ZONE EXPANDER MODULE CONFIGURATION & WIRING

BA-X

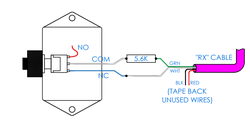


ALARM CONTROLS
HOLD UP BUTTON - P/N: TS-20

DEVICE DETAIL



WIRING DETAIL



NOTE:
USE EOL DEVICE (END OF LINE RESISTOR) AS INDICATED ON RISER DIAGRAM IF APPLICABLE FOR LINE SUPERVISION. LOCATE EOL AT DEVICE END

Symbol on Dwgs: PA

DTL: D09

ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - IDF-2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 5 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 6 - FOR CONSTRUCTION
12/12/2023	REV 8 - FOR BID

ITG Larson, inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

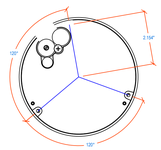
TITLE:
SECURITY EQUIPMENT DETAIL 4
BURG DEVICE TYPICALS

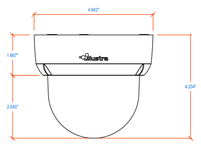
DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

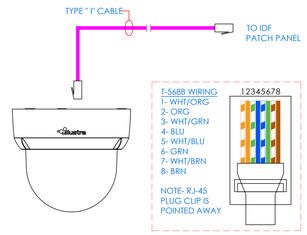
WORK ORDER NO.: XXXXXX
DATE: 11/25/2019
SCALE: N.T.S.
S.A. NO.: XXXXXX
DRAWING NO.: SE-705A

TYCO - ILLUSTRA FLEX 4K MINI DOME
8MP MINI DOME p/n: IFS08D2ICWTT (INDOOR) & IFS08D2OCWTT (OUTDOOR)

DEVICE DETAIL & WIRING





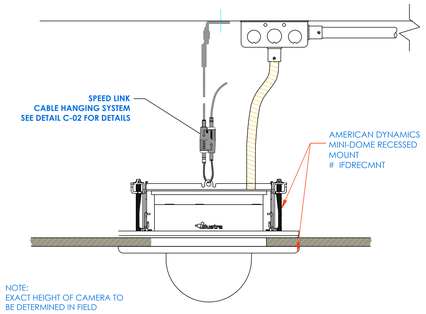


SPECIFICATIONS

	Indoor	Outdoor
Operational		
Video Compression	H.264 / H.265 / IntelliZip / MJPEG	
Max Frame Rate	8MP @ 15 fps	
ONVIF Compliant	Profile S	
Analog Video Output	Yes	
Resolution	3840x2160 (4K) 16:9 3264x1840 16:9 2592x1944 4:3 2688x1520 16:9 2048x1536 (QXGA) 4:3 1920x1080 (1080p) 16:9	1280x960 (SXGA-) 4:3 1280x720 (720p) 16:9 800x600 (SVGA) 4:3 640x480 (640VGA) 4:3 640x360 (nHD) 16:9
Imager	1/2.5"	
Day/Night	True D/N with ICR	
TrickleStor	Yes	
IR Distance	N/A	25m
Motion Detection	3 zones	
Blur Detection	Yes	
Privacy Zones	9 zones	
Alarm Input/Output	1 - 1	
Audio Input/Output	1 - 1	
Video Streams	Triple Streaming with a Maximum of 5 Concurrent Shared Streams	
True Wide Dynamic Range	100dB	
Minimum Illumination		
Color	0.03 Lux	
B/W	0.0003 Lux	
Field of View (H/V)		
Wide Angle	104°/56°	
Telephoto	42°/24°	
Lens Type	Motorized Varifocal and Focus, P-iris control, IR corrective	
Focal length	3.4-9mm	
Aperture	F/1.5(W)-F/2.9(T)	
Supported Languages	Arabic, Czech, Chinese (Simplified), Chinese (Traditional), Danish, Dutch, English (US), French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazilian), Russian, Spanish, Turkish	
Network		
Ethernet Interface Port	IEEE 802.3, 10/100Base-T Ethernet, Female RJ45, Auto-Negotiation	
Support Protocols	TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS-Discovery, DNS, DDNS, RTP, RTCP, RTSP, TLS, Unicast, Multicast, NTP, ICMP, IGMP, SMTP, WS-Security, IEEE 802.1x, PEAP, EAP-TLS, EAPoL, SSH, HTTPS, SOAP, WSAddressing, CIFS, SNMP, UPNP, RTSP, LLDP	
Configuration Management		
Web Browser	Internet Explorer 8.0 or above, Firefox, Safari, Chrome	
Security	TLS - RFC5246 v1.2, HTTPS (HTTP over TLS) - RFC2818, WS-Security, Certificate Management, Multi-Level Password Protection, IP Address Filtering, HTTPS Encryption, One-Click Security Hardening, User Access Log, Validate Complex Credentials, Disabling Unused Protocols, IEEE, 802.1x Including: PEAP, EAP-TLS, EAPoL	
Onboard Storage		
Card Support	Micro SD & SDXC slot up to 128GB; Class 10 or higher; Card not included	
Electrical		
Power Input	24VAC, PoE IEEE 802.3af class 2	24VAC, PoE IEEE 802.3af class 3
Power Draw	6W	12W
Physical		
Dimensions	Ø4.8 x 4.2 in (Ø123 x 107 mm)	
Weight	2.05lbs (0.93kg)	2.14lbs (0.97kg)
Housing Color	White	
Operating Temperature	-4°F to 122°F (-20°C to 50°C) No Heater	-58°F to 122°F (-50°C to 50°C) Extended Temperature: 140°F (60°C) for 5 hours a day with IR Illuminators OFF[1]
Vandal Resistant	IK10	
Environmental Rating	IP66/IP67	
Regulatory		
Emissions	FCC Part 15 Class A; EN55032 Class A; AS/NZS CISPR 32 Class A; ICES-003/NMB-003 Class A	
Immunity	EN55024, EN50130-4	
Safety	EN60950-1; UL60950-1; CAN/CSA-C22.2 No. 60950-1	
Environment	RoHS/WEEE	

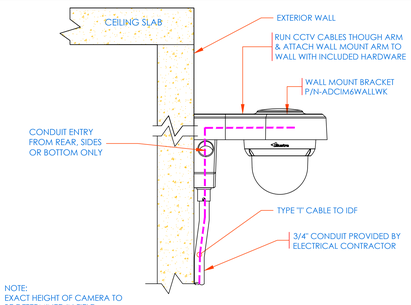
[1]Extended temperature limited to cameras installed in indirect sunlight

CEILING MOUNTING DETAIL



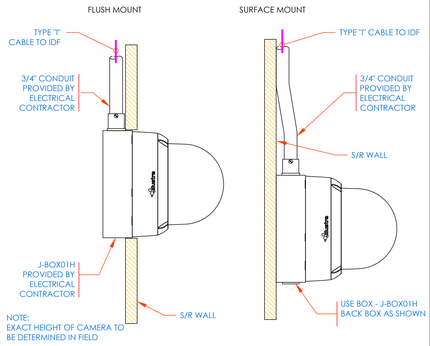
NOTE:
EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

OUTDOOR WALL SURFACE MOUNT DETAIL



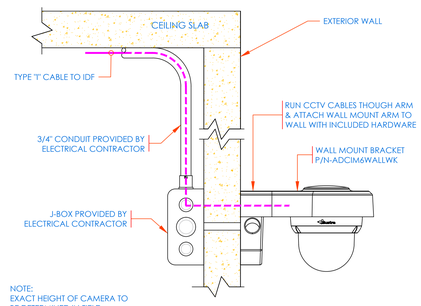
NOTE:
EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

INDOOR (ONLY) WALL MOUNTING DETAIL



NOTE:
EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

OUTDOOR WALL MOUNT DETAIL

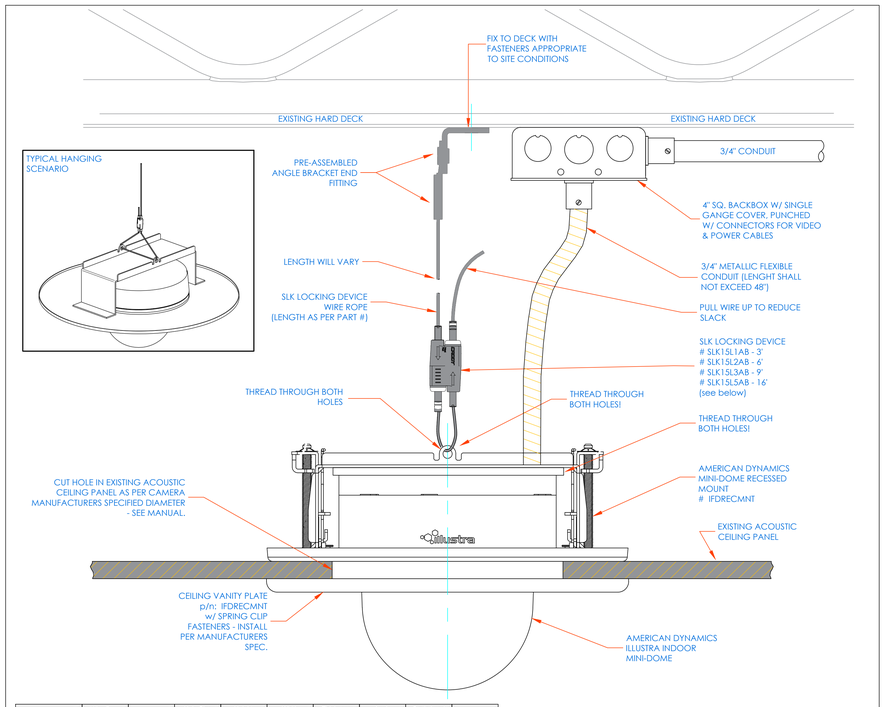


NOTE:
EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

Symbol on Dwgs:

DTL: C01

nVent CADDY
SPEED LINK SLK WITH ANGLE BRACKET



Part Number	Wire Rope Length	A	Hole Size HS	Height H	Width W	Thickness T	Angle a	Static Load F	Certifications
Wire Rope Diameter: 1/16"									
SLK15L1AB	3.3'	0.891"	0.281"	2.15"	0.75"	0.5"	90° Max	44 lb	cULus
SLK15L2AB	6.6'	0.891"	0.281"	2.15"	0.75"	0.5"	90° Max	44 lb	cULus

Symbol on Dwgs:

DTL: C02

ISSUED FOR:

DATE	COMMENTS
12/10/2019	FIRST SUBMISSION
12/13/2019	SECOND SUBMISSION - IDF-2 ADDED
7/9/2020	REV 4 - ADDITIONAL DEVICE PLACEMENT
5/24/2021	REV 5 - ADDITIONAL DEVICE PLACEMENT
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155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
MARTIN LUTHER KING Jr. ACADEMY
135 LOCUST HILL AVE
YONKERS, NY 10701

TITLE:
SECURITY EQUIPMENT DETAIL 5
CCTV TYPICALS

DESIGNED BY	DRAWN BY	CHECKED BY
XX	XX	XX

WORK ORDER NO:	DATE:
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