

NO.	ISSUANCE	DATE	REVISION
1	PROGRESS SET	08/24/2020	
2	S.E.D. SUBMISSION	04/09/2021	
3	ISSUED FOR BID	11.22.2022	

LIST OF DRAWINGS

SITE	
C-100	SITE PLAN
STRUCTURAL	
S-102	PARKING AREA FOUNDATION & FRAMING PLANS, SECTIONS & DETAILS
S-204	PARKING AREA FRAMING SECTIONS & DETAILS
ARCHITECTURAL	
A-100	EXISTING GROUND FLOOR AND REFLECTED CEILING PLANS
A-101	EXISTING INTERIOR ELEVATIONS
A-150	TANK ROOM - NEW ACCESS DOORS
MECHANICAL	
M-001	ABBREVIATIONS AND SYMBOLS
M-110	PARTIAL GROUND FLOOR PLAN - TANK ROOM - DEMOLITION AND NEW WORK
ELECTRICAL	
E-001	ABBREVIATIONS AND SYMBOLS
E-110	PARTIAL GROUND FLOOR PLAN - TANK ROOM - DEMOLITION AND NEW WORK
E-111	PARTIAL FIRST FLOOR PLAN - NEW WORK AND DETAIL
PLUMBING	
P-001	ABBREVIATIONS AND SYMBOLS
P-110	PARTIAL GROUND FLOOR PLAN - TANK ROOM - DEMOLITION AND NEW WORK
P-111	PARTIAL FIRST FLOOR PLAN - NEW WORK, DETAIL AND SCHEDULES

YONKERS PUBLIC SCHOOLS

One Larkin Center, Yonkers, New York 10701

STORAGE AREA RENOVATIONS MARTIN LUTHER KING, JR. ACADEMY



YONKERS PUBLIC SCHOOLS

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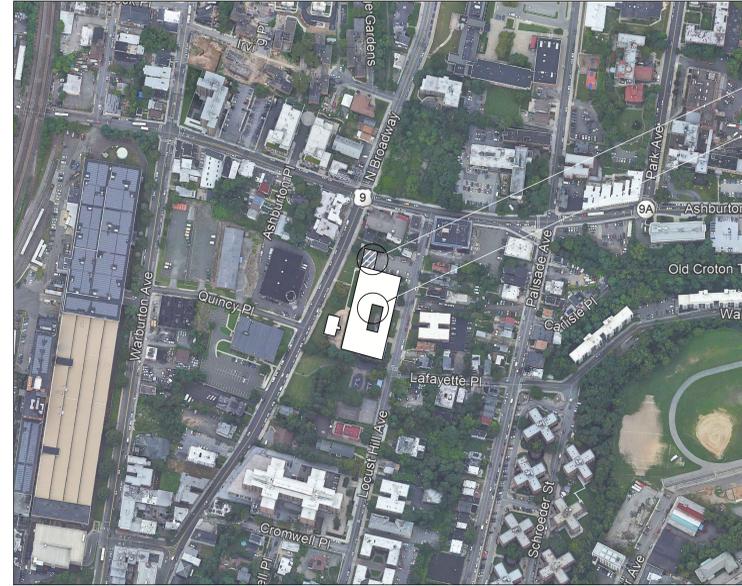
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Sheila Greenwald

Gail Burns

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Superintendent of Schools

John P. Carr
Executive Director
School Facilities Management



TANK ROOM
MARTIN LUTHER KING, JUNIOR ACADEMY
135 LOCUST AVENUE, YONKERS, NY 10701

PROJECT LOCATION MAP
SCALE: N.T.S.

DESIGN TEAM:

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CONSULTANTS:

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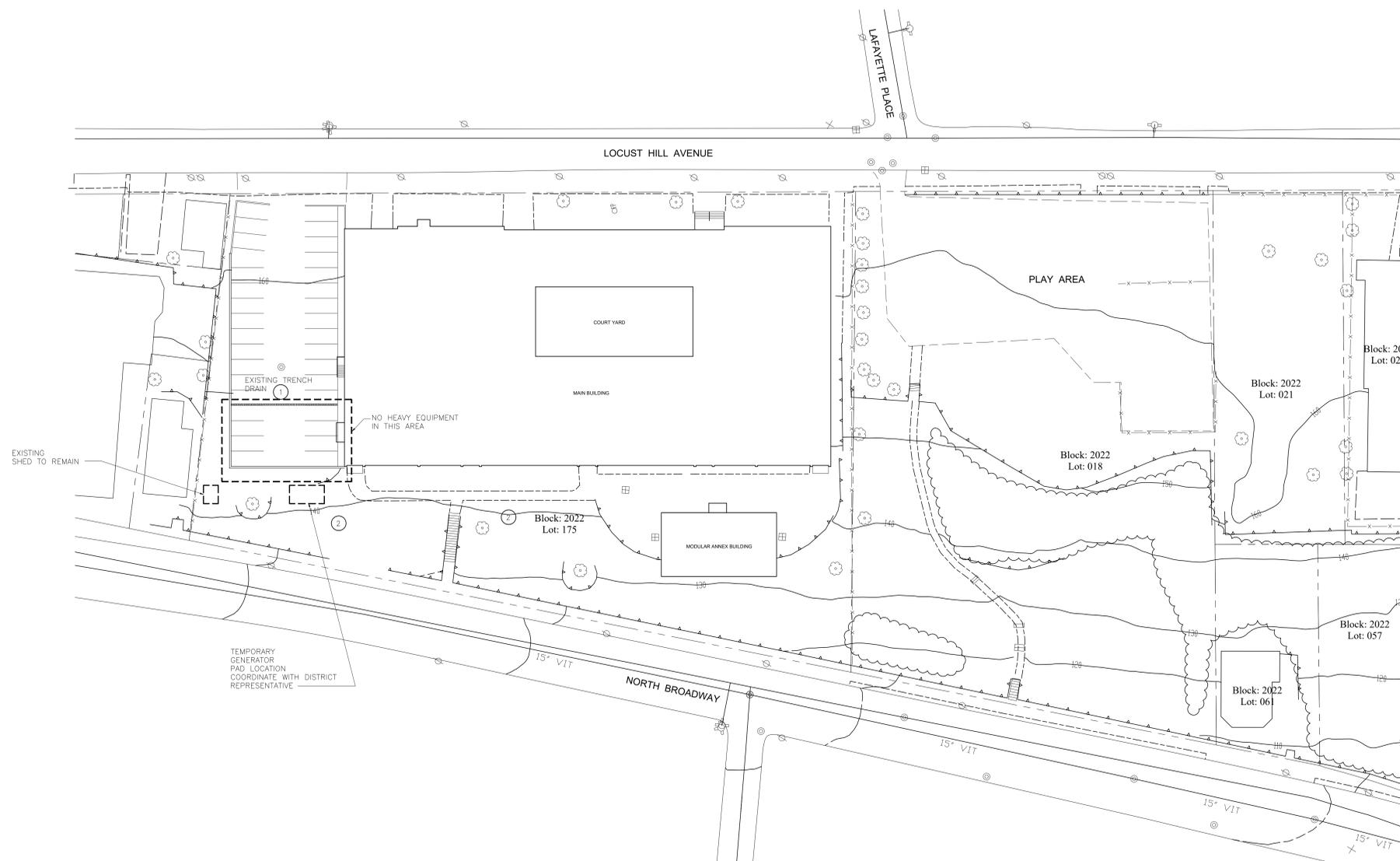
S.E.D. # 66-23-00-01-0-233-009

YPS JOB # 10875

STORAGE AREA RENOVATIONS

BID SET

11-22-2022



EXISTING SHED TO REMAIN

TEMPORARY GENERATOR PAD LOCATION COORDINATE WITH DISTRICT REPRESENTATIVE

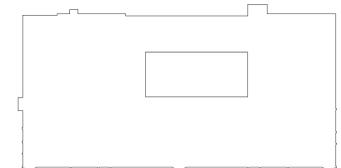
EXISTING TRENCH DRAIN

NO HEAVY EQUIPMENT IN THIS AREA

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



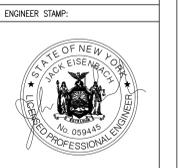
- KEYED NOTES - NEW WORK:
- 1 ALL HEAVY EQUIPMENT ETC MUST STAY EAST OF EXISTING TRENCH DRAIN AT ALL TIMES. THIS IS FOR ALL TRADES. COORDINATE WITH DISTRICT REPRESENTATIVE.
 - 2 MOBILIZATION WILL BE A AREA BEHIND THE BUILDING. COORDINATE WITH DISTRICT REPRESENTATIVE.



KEY-PLAN
SCALE: NONE

I, A MEMBER OF THE FIRM OF FULLER D'ANGELO ARCHITECTS PLANNERS, A PROFESSIONAL ARCHITECT FIRM, HEREBY CERTIFY THAT I AM THE DESIGNER OF THIS PROFESSIONAL ARCHITECTURE DRAWING AND THAT I AM A LICENSED PROFESSIONAL ARCHITECT IN THE STATE OF NEW YORK. I AM NOT PROVIDING ANY SERVICES TO ANY OTHER PARTY IN CONNECTION WITH THIS PROJECT. I AM NOT PROVIDING ANY SERVICES TO ANY OTHER PARTY IN CONNECTION WITH THIS PROJECT. I AM NOT PROVIDING ANY SERVICES TO ANY OTHER PARTY IN CONNECTION WITH THIS PROJECT.

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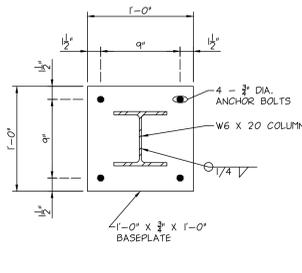


YONKERS PUBLIC SCHOOLS
STORAGE AREA RENOVATIONS
Martin Luther King Elementary School
 135 Locust Hill Avenue, Yonkers N.Y. 10701
 S.E.D.# 66-26-00-01-0-233-009

EMR PROJECT NO.	Y19MLK01
YPS NO.	10875
REV	DATE
1	11.22.2022
2	11.29.2021
3	04.09.2021
DRAWN BY	
CHECKED BY	
SHEET SIZE	30"x42"
SCALE	AS SHOWN

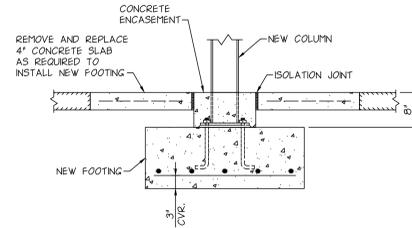
SITE PLAN

SHEET NO.
C-100



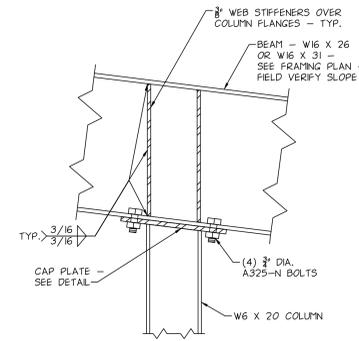
BASEPLATE DETAIL

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



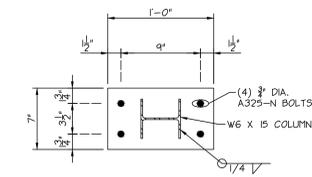
FOOTING AND COLUMN INSTALLATION DETAIL

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



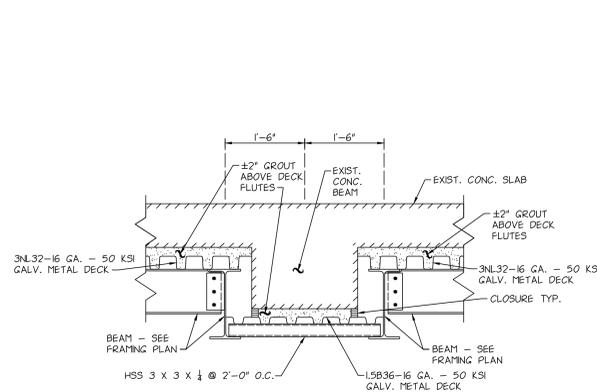
DETAIL AT TOP OF COLUMN

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



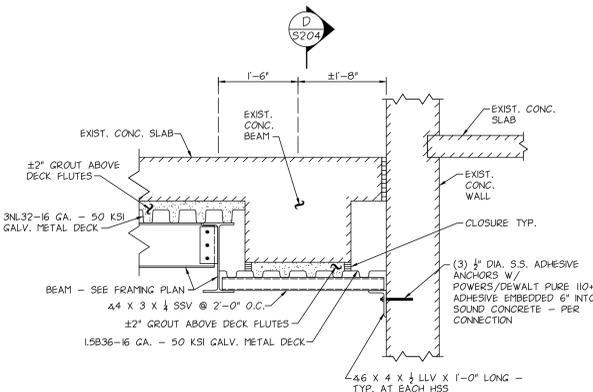
CAP PLATE DETAIL

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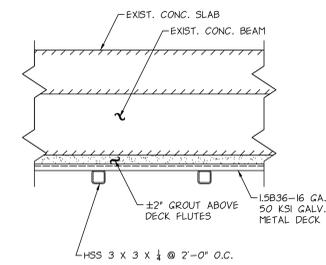
SECTION A
S204

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



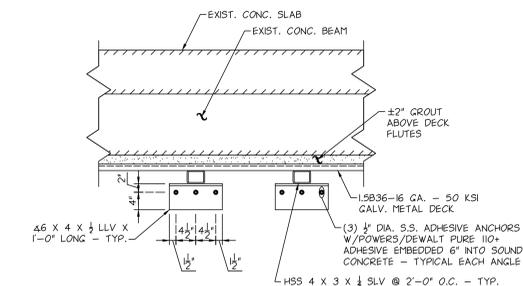
SECTION C
S204

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



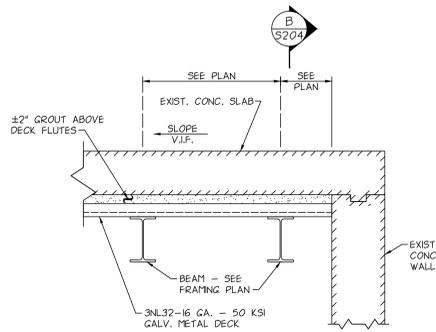
SECTION D
S204

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



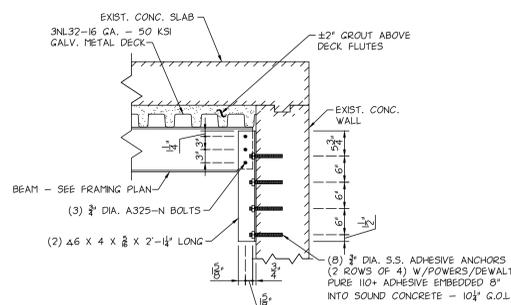
SECTION E
S204

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



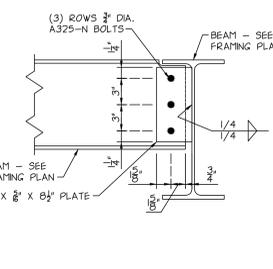
SECTION B
S204

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



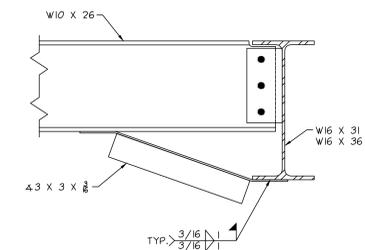
SECTION F
S204

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



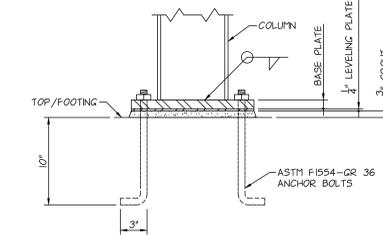
TYPICAL BEAM-BEAM CONNECTION

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



FLANGE BRACE DETAIL

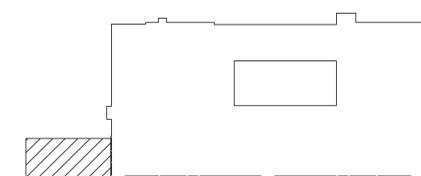
SCALE: 1 1/2" = 1'-0"



ANCHOR BOLT DETAIL

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

NOTE: SLOPE IN EXIST. CONC. SLAB IS NOT SHOWN. VERIFY SLOPE IN FIELD.



KEY-PLAN
SCALE: NONE

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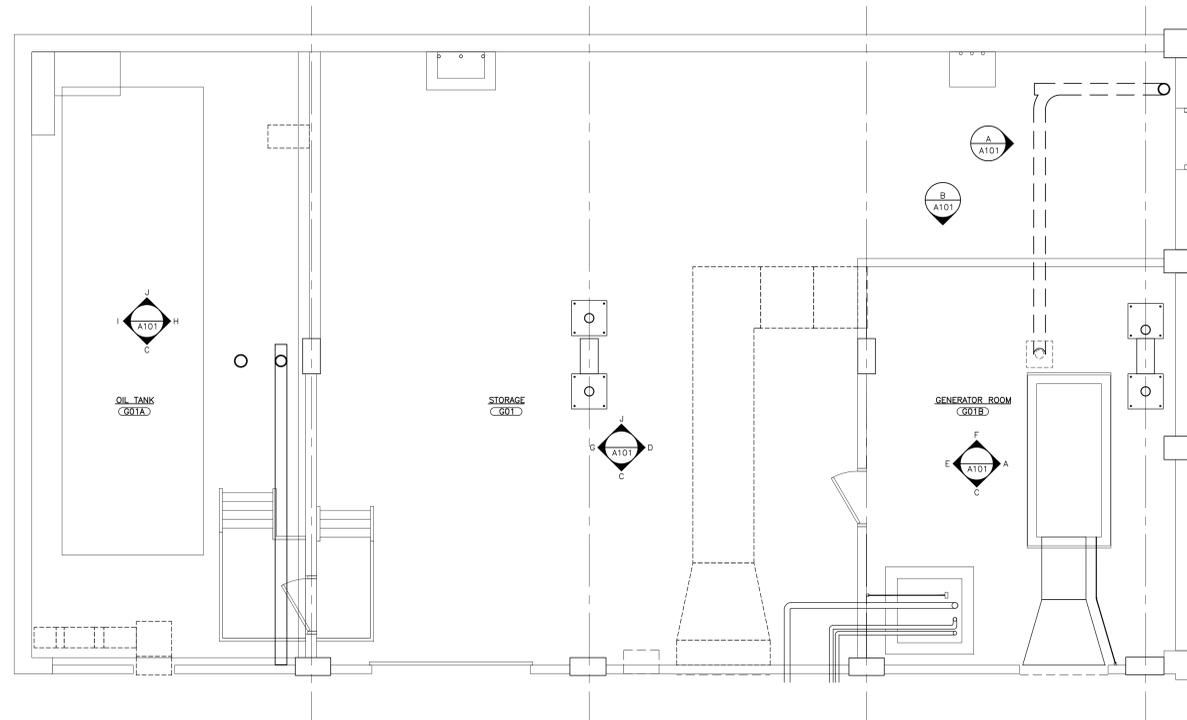
ENGINEER STAMP:

YONKERS PUBLIC SCHOOLS
 STORAGE AREA RENOVATIONS
 Martin Luther King Elementary School
 135 Loudon Hill Avenue, Yonkers, N.Y. 10701
 SED# 6625000149203-609

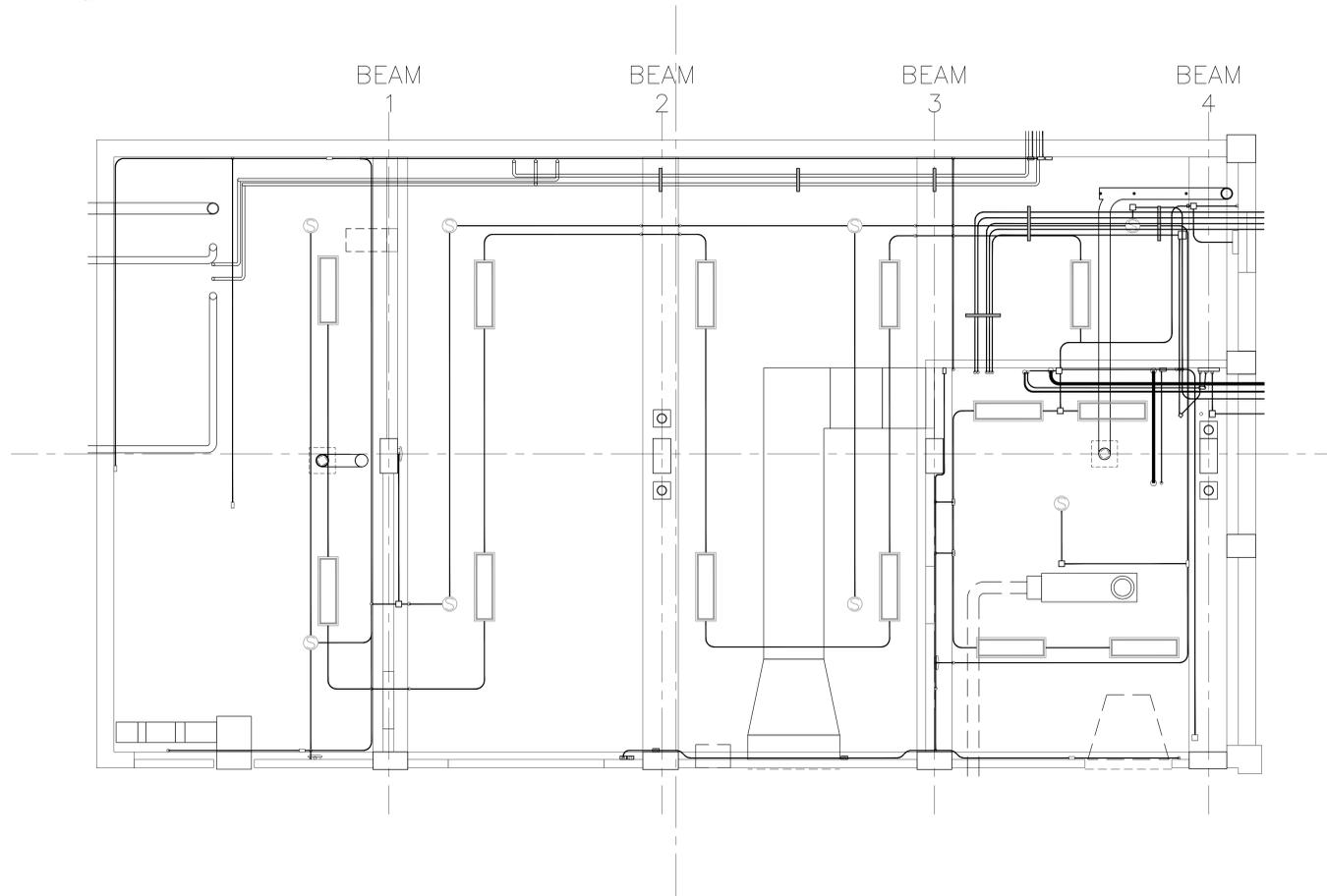
E&R PROJECT NO.	Y19MK01
YPS NO.	10875
BID SET	11.22.2022
S.E.D. ADDENDUM	11.29.2021
S.E.D. SUBMISSION	04.09.2021
REVISION	DATE
DATE	11.22.2022
DRAWN BY	
CHECKED BY	
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
 PARKING AREA
 FRAMING SECTIONS &
 DETAILS

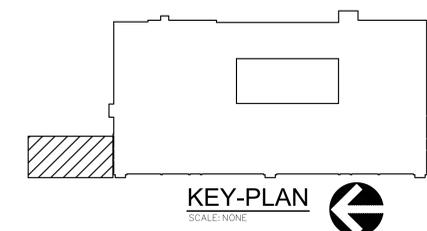
SHEET NO.
S-204



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



2 EXISTING REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

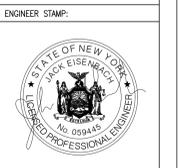


FOR REFERENCE ONLY

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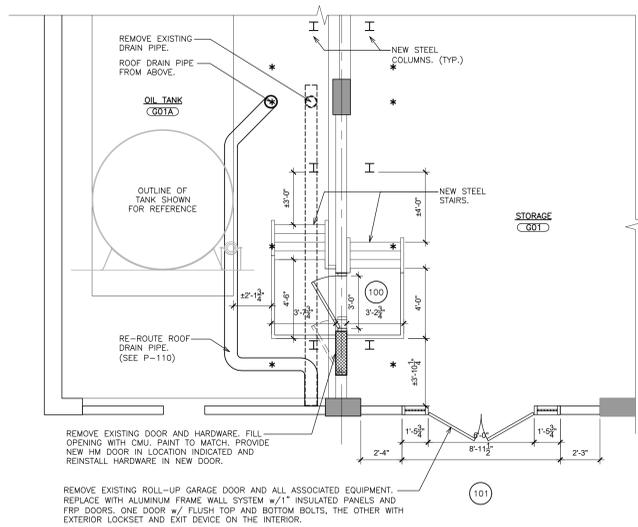


YONKERS PUBLIC SCHOOLS
STORAGE AREA RENOVATIONS
Martin Luther King Elementary School
 135 Locust Hill Avenue, Yonkers N.Y. 10701
 S.E.D.# 66-26-00-01-0-233-009

EMR PROJECT NO.	Y19MLK01
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DRAWN BY	
CHECKED BY	
SHEET SIZE	30"x42"
SCALE	AS SHOWN
SHEET TITLE	
EXISTING GROUND FLOOR AND REFLECTED CEILING PLANS	

SHEET NO.
A-100

FILE PATH: -N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01_CIP# 10875 YPS MLK Roof, Boiler, Window, & Select Interior Upgrades\CAD\Tank Room\Y19mlk01_A100.dwg



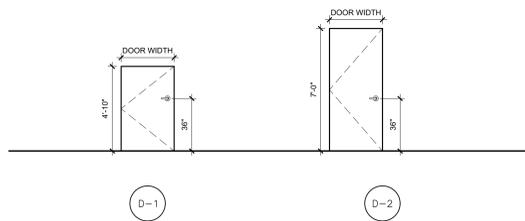
1 PARTIAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL DOOR NOTES:

- ALL DOOR AND FRAME SIZES SHALL BE FIELD VERIFIED.
- 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".
- THE DOOR SURFACE WITHIN 10" OF THE FLOOR MEASURED VERTICALLY SHALL BE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING FULL WIDTH OF DOOR.

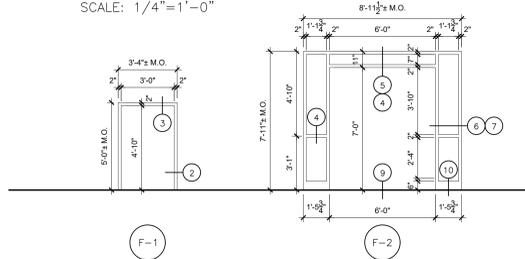
DOOR TYPES

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



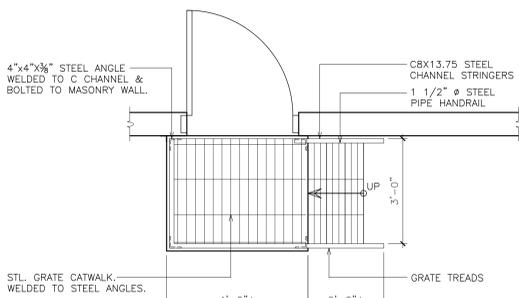
FRAME TYPES

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

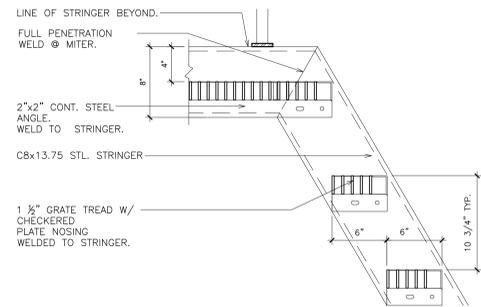


DOOR SCHEDULE

DOOR NUMBER	LOCATION	DOOR	FRAME		HARDWARE		REMARKS
			SIZE	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	
100	OIL TANK ROOM	3'-0" x 4'-10"	D-1	HM	F-1	HM	REINSTALL ALL EXISTING HARDWARE
101	STORAGE ENTRY	6'-0" x 7'-0"	D-2	FRP	F-2	AL	SEE SPECIFICATION



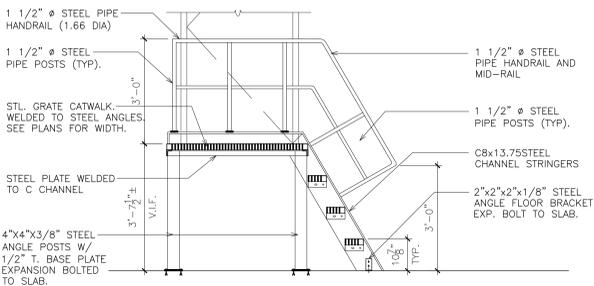
PLAN - STEEL ACCESS LADDER
SCALE: 1/2" = 1'-0"



SECTION THRU STEEL STAIR
SCALE: 1 1/2" = 1'-0"

NOTES:

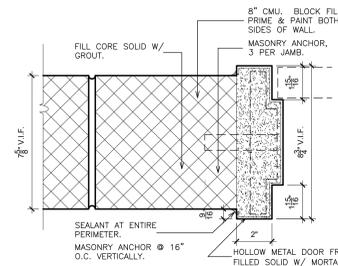
- SHOP FABRICATE THE RAILING ASSEMBLY FROM 1 1/2" O.D. STEEL PIPE.
- ALL MEMBERS SHALL BE CAREFULLY CUT AND COPE TO FIT AND JOINED WITH CONTINUOUS WELDS. CAREFULLY GRIND ALL WELDS AND ADJOINING SURFACES SMOOTH.
- HOT DIP GALVANIZE THE RAILING ASSEMBLY AFTER FABRICATION.
- PRIME AND FINISH PAINT WITH TWO COATS AFTER INSTALLATION.



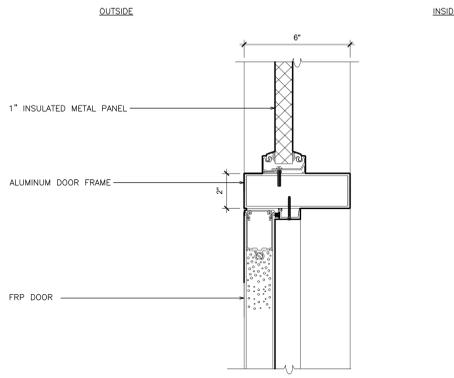
SECTION - STEEL ACCESS LADDER
SCALE: 1/2" = 1'-0"

NOTE:
STAIR FOR STORAGE G01 SHOWN. STAIR FOR OIL TANK G01A SIMILAR OPPOSITE HAND.

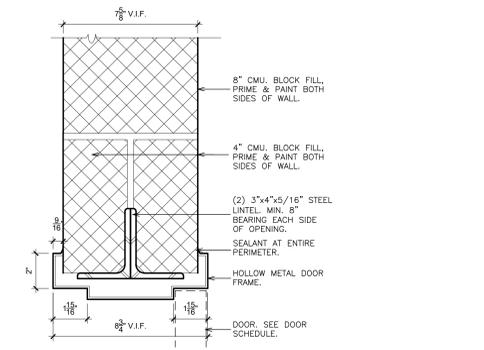
11 DETAIL - METAL STAIRS
SCALE: AS NOTED



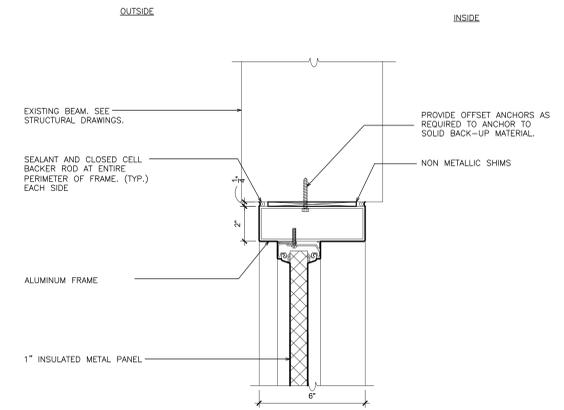
2 DOOR JAMB
SCALE: 3" = 1'-0"



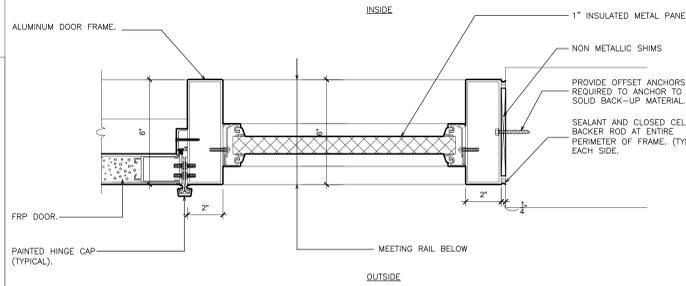
4 DOOR HEAD
SCALE: 3" = 1'-0"



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

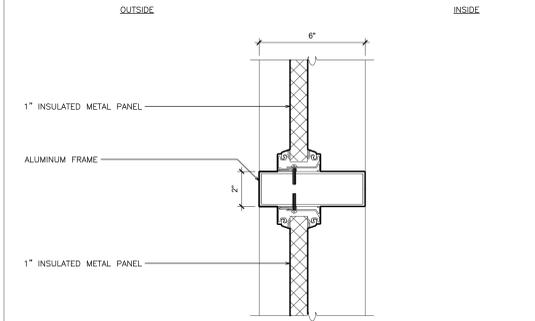


5 HEAD (fixed)
SCALE: 3" = 1'-0"

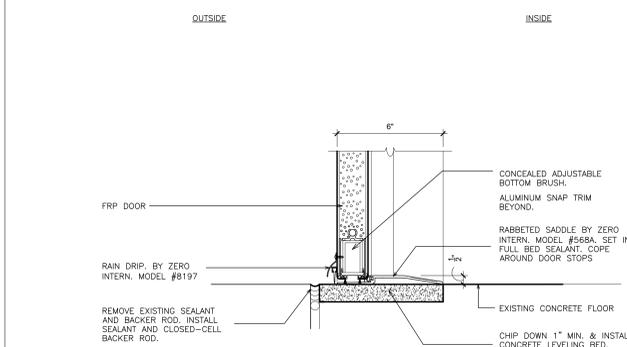


6 DOOR JAMB
SCALE: 3" = 1'-0"

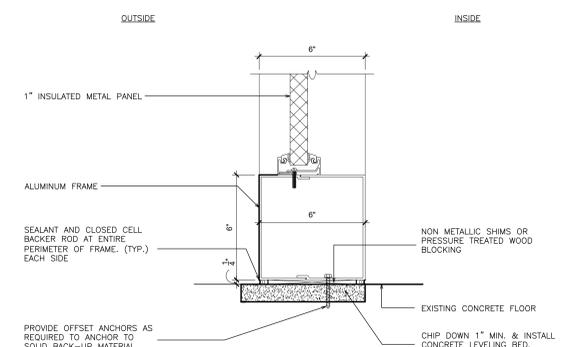
7 JAMB (fixed)
SCALE: 3" = 1'-0"



8 MEETING RAIL (fixed)
SCALE: 3" = 1'-0"



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



10 SILL (fixed)
SCALE: 3" = 1'-0"

ENGINEER:
Fuller D'Angelo P.C.
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ENGINEER STAMP:
STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER
No. 05945

YONKERS PUBLIC SCHOOLS
STORAGE AREA RENOVATIONS
Martin Luther King Elementary School
155 Loudell Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 8625-001-03-03-08

E&R PROJECT NO.	Y19MK01
YPS NO.	10875
RD SET	11.22.2022
S.E.D. ADDENDUM	11.29.2021
S.E.D. SUBMISSION	04.09.2021
REVISION	DATE
DATE	11.22.2022
DRAWN BY	
CHECKED BY	
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
TANK ROOM - NEW ACCESS DOORS

SHEET NO.

A-150

FILE PATH - N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MK01 - 10875 YPS MLK Roof, Bolter, Window, & Select Interior Upgrades\CAD\Tank Room\FROM ADMIN.11.22.2022\20278.01-A150 - Repair.dwg

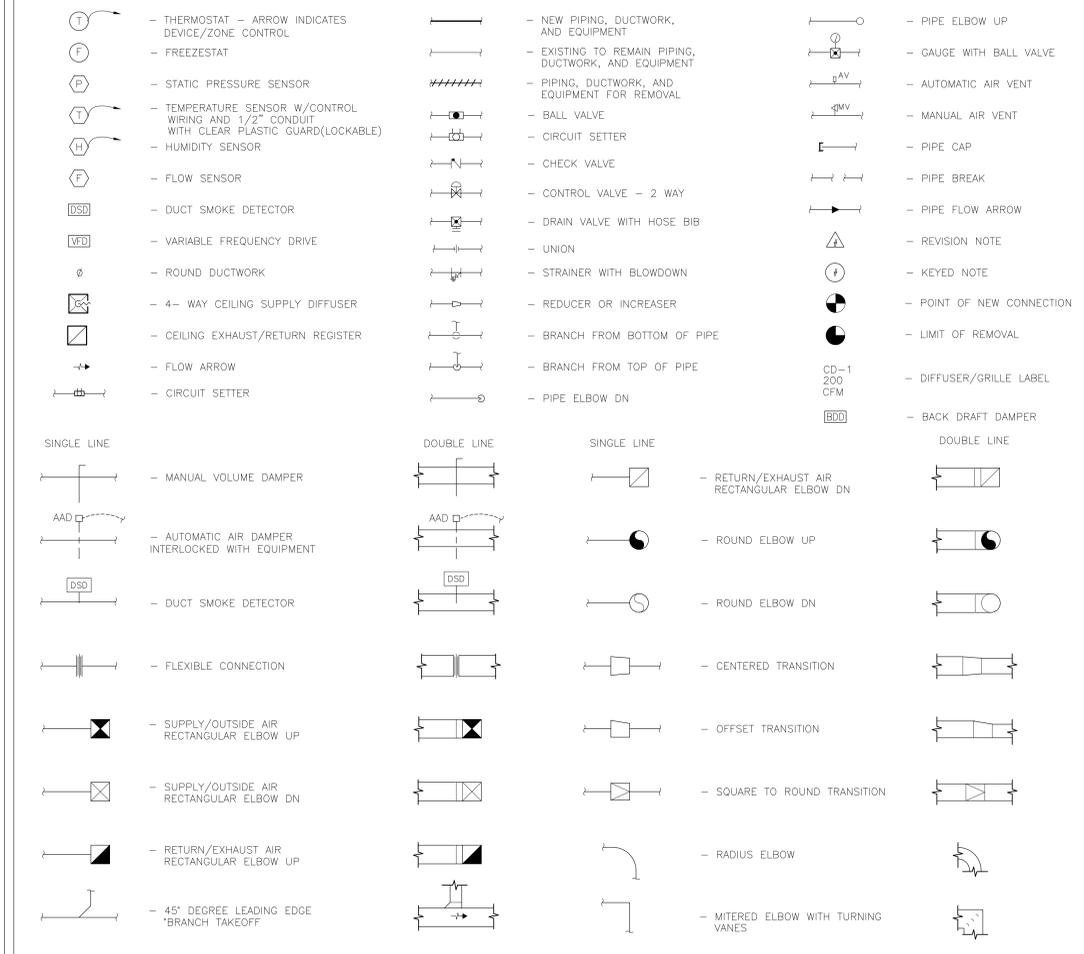
MECHANICAL GENERAL NOTES:

- 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.
- CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- 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.
- 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.
- PROTECT ALL EXISTING AND NEW BUILDING ELEMENTS (INSTALLED BY OTHER CONTRACTS) FROM DAMAGE. CONTRACTOR SHALL RESTORE ALL DAMAGED ELEMENTS TO ORIGINAL OR BETTER CONDITION.
- 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.
- MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN MANUFACTURER'S EQUIPMENT CLEARANCES.
- 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.
- ALL EQUIPMENT PIPING, WIRING, INSULATION ETC. INSTALLED IN HVAC AIR PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
- SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS AND FLOORS WITH UL RATED MATERIALS/METHODS EQUIVALENT TO FIRE RATING OF ASSEMBLY.
- 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).
- PROVIDE PROPER ACCESS TO EQUIPMENT THAT REQUIRES INSPECTION, REPLACEMENT OR REPAIR. ACCESS PANELS/DOORS SHALL BE A MINIMUM OF 12"x12", UNLESS OTHERWISE NOTED.
- 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.
- 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 DESIGNER 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.
- AIR CONDITIONER INSTALLATION TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
- VFDs ARE TO BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

HVAC REMOVAL NOTES:

- 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 ACCOMMODATE NEW WORK.
- 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.
- 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.
- 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



SPECIALIZED INSPECTIONS NOTE:

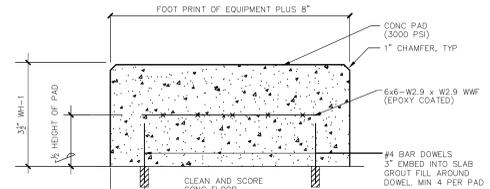
- ORGANIZATION/ SOLICITATION OF SPECIAL INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE DISTRICT.

CONTRACTORS' COORDINATION NOTE:

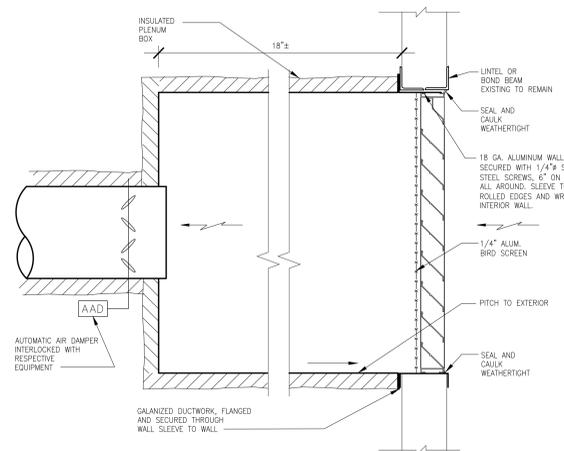
ALL CONTRACTORS ARE REQUIRED TO REVIEW THE CONTRACT DRAWINGS FOR ALL TRADES AND DETERMINE NECESSARY COORDINATION BETWEEN TRADES PRIOR TO BIDDING. ANY DISCREPANCIES, COMMENTS, OR QUESTIONS ARE TO BE SUBMITTED TO THE ENGINEER BY RFI.

DAMAGE TO WALLS AND/OR CEILINGS DURING YOUR SCHEDULED WORK

- 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.
- 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.



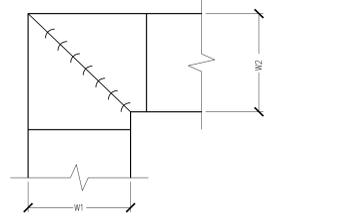
1 CONCRETE PAD DETAIL
SCALE: NONE



2 LOUVER DETAIL
SCALE: NONE

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
RFM	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



- NOTES:**
- ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
 - WHEN W1 DOES NOT EQUAL W2 VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
 - ALL SINGLE THICKNESS VANES SHALL HAVE A 2" RADIUS, 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING EDGE.
 - WHEN W1 EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANES TYPE.

3 DUCTWORK SQUARE VANE ELBOWS DETAIL
SCALE: NONE

E.I.A. NUMBER OF THE PLAN AND ANY OTHER NUMBER IS A SERVICE MARK OF THE ENGINEER OF RECORD. NO PART OF THIS DRAWING OR ANY INFORMATION HEREON IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER OF RECORD. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS DRAWING.

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ENGINEER STAMP:

PROJECT: YONKERS PUBLIC SCHOOLS STORAGE AREA RENOVATIONS
SCHOOL: Martin Luther King Elementary School
 135 Locust Hill Avenue, Yonkers N.Y. 10701
 S.E.D.# 66-05-00-01-0-233-009

EMR PROJECT NO.	Y19M001
YPS NO.	10875
DATE	11.22.2022
S.E.D. ADDENDUM	11.29.2021
S.E.D. SUBMISSION	04.09.2021
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30"x42"
SCALE	AS SHOWN
SHEET TITLE	

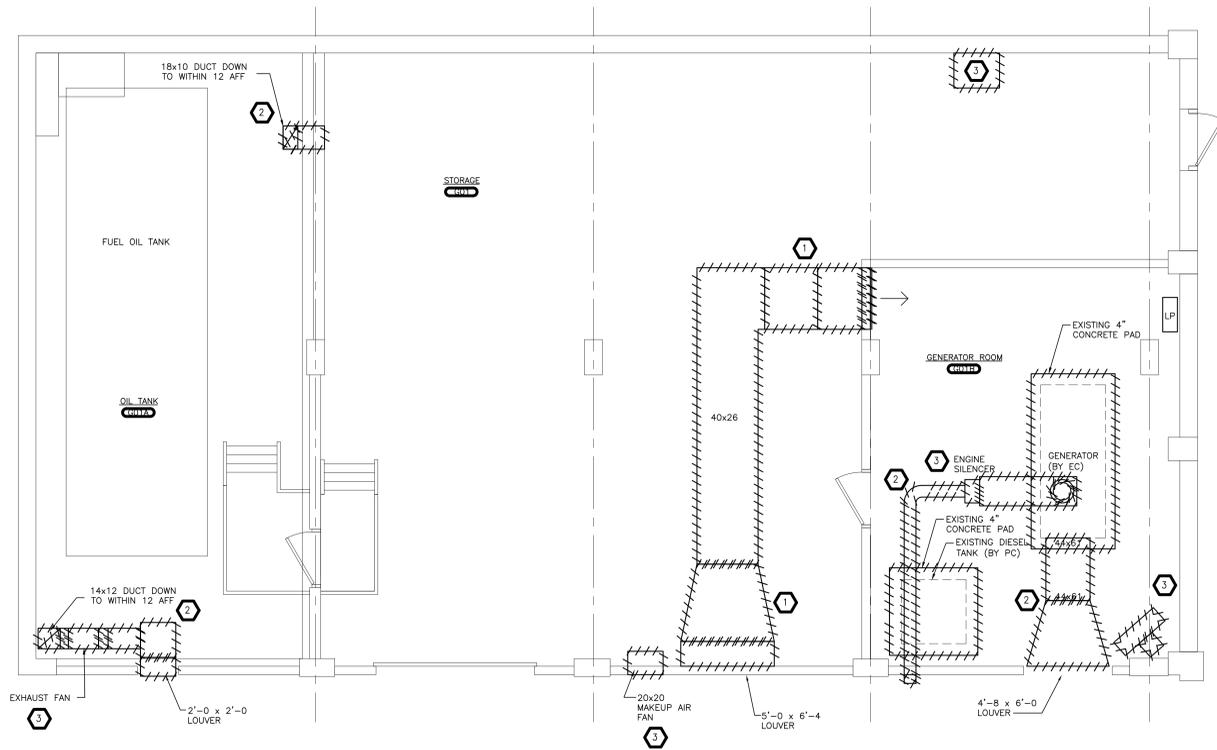
ABBREVIATIONS AND SYMBOLS

BIO SET 11.22.2022
 S.E.D. ADDENDUM 11.29.2021
 S.E.D. SUBMISSION 04.09.2021

FILE PATH: N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19M001_CIP# 10875_YPS MLK Roof, Boiler, Window, & Select Interior Upgrades\CAD\Tank Room\Y19m001.m01.dwg

SHEET NO.
M-001

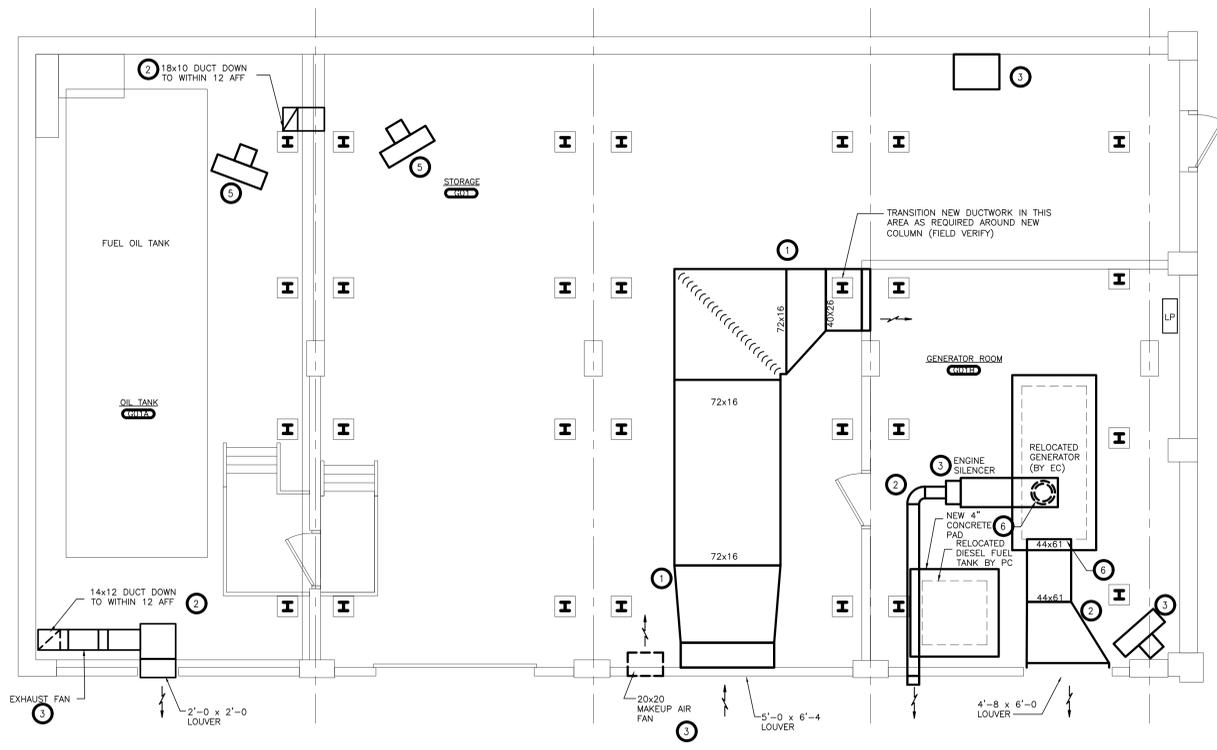
- KEYED NOTES - DEMOLITION:**
- REMOVE EXISTING DUCTWORK, INSECT SCREENS, AND HANGERS. LOUVERS IN EXTERIOR WALLS TO REMAIN. PROVIDE TEMPORARY COVERINGS TO LOUVERS AND PENETRATIONS. ANY EXISTING DAMPERS, DUCT DETECTORS, AND ASSOCIATED CONTROLS ARE TO BE REMOVED. REMOVE INSULATION AND FIRESTOPPING.
 - REMOVE EXISTING DUCTWORK AND ASSOCIATED AND STORE IN OWNER SPECIFIED LOCATION FOR NECESSARY MODIFICATION AND LATER REINSTALLATION.
 - REMOVE EXISTING UNIT HEATER, FANS, ENGINE SILENCER, AND EQUIPMENT ALONG WITH ANY ASSOCIATED CASING, SUPPORTS, AND CONTROLS. SAFELY STORE IN OWNER-SELECTED LOCATION FOR LATER REINSTALLATION.



1 PARTIAL REFLECTED CEILING PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"

- KEYED NOTES - NEW WORK:**
- PROVIDE NEW DUCTWORK AS SHOWN. PROVIDE ASSOCIATED SUPPORTS. PROVIDE INSECT SCREENS AT EXTERIOR WALL PENETRATIONS. FINAL DUCTWORK LAYOUT AND SIZING TO BE DICTATED BY FIELD CONDITIONS AND NEW STRUCTURAL COMPONENTS. TRANSITION DUCTWORK AS NECESSARY TO RECONNECT TO EXISTING EXTERIOR LOUVERS. NEW DUCTWORK SHALL MAINTAIN SAME AFF HEIGHT AS EXISTING WITHIN REASON.
 - REINSTALL EXISTING DUCTWORK. PROVIDE TRANSITIONS AND MODIFY AS NECESSARY TO RECONNECT TO EXISTING EXTERIOR LOUVERS, PENETRATIONS, RELOCATED EQUIPMENT, ETC.
 - REINSTALL UNIT HEATER, FANS AND EQUIPMENT, CONTROLS, DUCT DETECTORS, DAMPERS, AND ASSOCIATED INTO DUCTWORK. PROVIDE TRANSITIONS TO CONNECT TO NEW DUCT SIZING WHEN APPLICABLE.
 - ALL DUCTWORK TO BE MADE AIR TIGHT. PENETRATIONS TO THE EXTERIOR TO BE RE-WEATHERPROOFED. ALL PENETRATIONS IN INTERIOR WALLS TO BE FIRESTOPPED.
 - PROVIDE NEW ELECTRIC UNIT HEATER MODINE MODEL 100- 208-1PHASE WITH ALL APPURTENANCES. HANG FROM STRUCTURE ABOVE.
¾ CONDUIT WITH 2-#10 WITH 1-#10 GRD TO LOCAL PANEL LP. WIRING BY EC
 - PROVIDE NEW DUCTWORK FLEX CONNECTIONS.

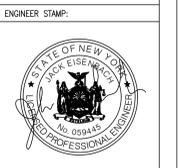
NOTE: MAKE NECESSARY ADJUSTMENTS WHEN REINSTALLING EQUIPMENT, FANS, ETC. SEE P-110 REGARDING STARTUP AND TESTING OF BOILERS AFTER PLUMBING WORK HAS CONCLUDED.



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

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Martin Luther King Elementary School
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DRAWN BY	
CHECKED BY	
SHEET SIZE	30"x42"
SCALE	AS SHOWN
SHEET TITLE	
PARTIAL GROUND FLOOR PLAN - TANK ROOM - DEMOLITION AND NEW WORK	
SHEET NO.	
M-110	



SYMBOLS LIST

GENERAL SYMBOLS:

- # KEYED NOTE
- 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
- (E) ('E') NEXT TO LIGHT LINE-WEIGHT INDICATES EXISTING DEVICES/EQUIPMENT TO REMAIN
- (ER) ('ER') NEXT TO LIGHT LINE-WEIGHT INDICATES EXISTING DEVICES/EQUIPMENT TO BE REMOVED AND RELOCATED. REFER TO DEFINITIONS FOR INFORMATION
- (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

TELEPHONE/DATA SYMBOLS:

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

ONE-LINE SYMBOLS:

- CIRCUIT BREAKER
- FUSE
- FUSED DISCONNECT SWITCH
- GROUND
- PANELBOARD

SPECIAL SYSTEMS SYMBOLS:

- AC SYSTEM CONTROL PANEL
- AC SYSTEM MASTER CONTROL STATION
- CARD READER
- DOOR CONTACT
- ELECTRIC DOOR STRIKE
- REQUEST TO EXIT
- INTERCOM STATION
- 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)
- CEILING MOUNTED CCTV CAMERA
- WALL MOUNTED CCTV CAMERA

LIGHTING SYMBOLS: (REFER TO LIGHT FIXTURE SCHEDULE)

- LIGHT SWITCH
- q, b, x - INDICATES SWITCH LEG
- D - DIMMER SWITCH
- K - KEYS
- 3 - 3-WAY
- 4 - 4-WAY
- OCCUPANCY SENSOR
- C# - INDICATES CEILING SENSOR TYPE (REFER TO OCCUPANCY SENSOR SCHEDULE)
- W# - INDICATES WALL SENSOR TYPE (REFER TO OCCUPANCY SENSOR SCHEDULE)
- C1
- C2
- 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.
- X# - 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.

FIRE ALARM SYMBOLS:

- AUDIO/VISUAL SIGNALING DEVICE. NUMBER DENOTES CANDELA RATING.
- VISUAL SIGNALING DEVICE. NUMBER DENOTES CANDELA RATING.
- PULL STATION
- SMOKE DETECTOR. R SUBSCRIPT: PROVIDE ACCESSORY EQUIPMENT/WIRING/PROGRAMMING FOR ELEVATOR RECALL AND SHUNT TRIP.
- HEAT DETECTOR
- CONTROL MODULE
- MONITOR MODULE
- DUCT SMOKE DETECTOR
- REMOTE TEST STATION
- MAGNETIC DOOR HOLDER
- TAMPER SWITCH
- FAN SHUT-DOWN
- FIRE ALARM CONTROL PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- CARBON MONOXIDE DETECTOR (ELECTROCHEMICAL STYLE) (SYSTEM SENSOR CO1224TR OR EQUAL) (INSTALL PER MANUFACTURERS RECOMMEND. AND PER NFPA 720)
- CARBON DIOXIDE DETECTOR
- GAS DETECTOR

POWER SYMBOLS:

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

GENERAL DEMOLITION NOTES:

- DEMOLITION DRAWINGS ARE BASED ON FIELD OBSERVATION. REPORT ANY CONFLICTS TO THE ENGINEER BEFORE DISTURBING EXISTING EQUIPMENT.
- BEGINNING OF DEMOLITION MEANS THE CONTRACTOR ACCEPTS ALL EXISTING CONDITIONS.
- 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.
- 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.
- UNLESS NOTED OTHERWISE, REMOVE ALL ELECTRICAL ITEMS SHOWN ON THESE PLANS AS INDICATED BY CROSS HATCHED LINES AND/OR KEYS NOTES.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- WHERE REMOVALS OCCUR ON SERVICES THAT ARE TO REMAIN IN OPERATION, CAP OR OTHERWISE TERMINATE THE REMAINING SERVICES BENEATH FINISHED SURFACES.
- 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.
- 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.
- 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.
- 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

- 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.
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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.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	VOLTAGE/DRIVER	MOUNTING	DESIGN BASIS	ACCEPT. MFR'S.	REMARKS
X1	LED EXIT FIXTURE W/ BATTERY BACKUP	RED LED-EXIT	UNIVERSAL 120-277V INPUT	WALL/CEILING	LITHONIA LIGHTING EDGR 2 RMR EL M4	OR APPROVED EQUAL	PROVIDE FIXTURE WITH INTEGRAL BATTERY BACK-UP WITH SELF-PERFORMING DIAGNOSTICS. PROVIDE WIREGUARD WHERE INDICATED WITH 'WG'. REFER TO FLOOR PLANS FOR QUANTITIES/LOCATIONS OF WALL MOUNT AND CEILING MOUNT FIXTURES. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON FLOOR PLANS. CONNECT TO LOCAL CIRCUIT
L1	1x4 LUMINAIRE	LED 4000K	M-VOLT	SURFACE	MERCURY LIGHTING LW25W-4-4700-40K-PF 1%-UNI-VP	OR APPROVED EQUAL	PROVIDE UNISTRUTS AND SUPPORTS AS REQUIRED PROVIDE GALVANIZED FASTENERS

BB- BATTERY BACKUP

FIRE ALARM NOTES:

- CONTRACTOR SHALL VERIFY AND COORDINATE WITH THE BUILDING FIRE ALARM MAINTENANCE VENDOR FOR TYPE OF FIRE ALARM DEVICES TO BE USED.
- 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.
- 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.
- 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.
- 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.
- IN AREAS WHERE DUST AND DIRT WILL BE AIRBORNE DURING DEMOLITION AND CONSTRUCTION THE CONTRACTOR SHALL PROVIDE PLASTIC WRAP OVER 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 ITS ORIGINAL LOCATION OR AS CLOSE TO ITS ORIGINAL LOCATION AS FEASIBLE. REUSE EXISTING WIRING IF POSSIBLE; PROVIDE NEW WIRING IF NECESSARY.
- 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.
- 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 WIRING MOLD V-700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN. 3" CONDUIT.
- STROBES SHALL HAVE A MINIMUM LIGHT OUTPUT OF 75 CANDELA AND A FLASH RATE OF 1-3 HZ.
- 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 OCCURRED. EQUIPMENT RESTART SHALL BE BY BUILDING 'ATC' SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
- AFTER THE SYSTEM MODIFICATIONS ARE COMPLETE TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
- CONTRACTOR REMOVE/TAKE DOWN ALL EXISTING FIRE ALARM DEVICES AND SAVE. REINSTALL IN SAME LOCATIONS AND PROVIDE ANY ADDITIONAL APPURTENANCES.

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 ON CENTER
OC-	ON CENTER
FLA-	FULL LOAD AMPS
A/V-	AUDIO/VISUAL
P-	POLE
FLUOR-	FLUORESCENT
AWG-	AMERICAN WIRE GAUGE
PNL-	PANEL
GC-	GENERAL CONTRACTOR
AU-	AT UNIT
PR-	PRIMARY
GF-	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
LTO-	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
MOP-	MAIN DISTRIBUTION PANEL
XFMR-	TRANSFORMER
ED-	ELECTRICAL CONTRACTOR
MC-	MECHANICAL CONTRACTOR
PC-	PLUMBING CONTRACTOR
WAC-	WINDOW AIR CONDITIONER

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

GENERAL NEW WORK NOTES:

- UNLESS NOTED AS REQUIRED OR PROVIDED BY OTHERS, CONTRACTOR SHALL PROVIDE ALL MATERIALS SHOWN ON DRAWINGS. ALL MATERIALS PROVIDED SHALL BE NEW, UNUSED CONDITION.
- 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 MAINTENANCE CONSENT OF THE OWNER. EXISTING ALARM AND EMERGENCY SYSTEMS SHALL NOT BE DISRUPTED AT ANY TIME DURING THE PROJECT.
- 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).
- 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.
- 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.
- COVERS ASSOCIATED WITH JUNCTION AND PULL BOXES SHALL BE READILY ACCESSIBLE.
- 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.
- PROVIDE SEPARATE RACEWAYS AND BOXES FOR CONDUCTORS OF NORMAL AND EMERGENCY CIRCUITS.
- 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.
- THE USE OF NON-METALLIC SURFACE RACEWAY OR EXPOSED NON-METALLIC RACEWAY IN ASSEMBLY SPACES AND MEANS OF EGRESS AREAS IS PROHIBITED.
- THE USE OF SHARED NEUTRALS IN LIGHTING AND RECEPTACLE BRANCH CIRCUITS IS PROHIBITED. PROVIDE SEPARATE NEUTRAL AND GROUND FOR EVERY CIRCUIT.
- PROTECT EXISTING SURFACES.
- WALK-THRU WITH OWNER REPRESENTATIVE AND VERIFY ALL ELECTRICAL DEVICE LOCATIONS PRIOR TO INSTALLATION.
- INSTALL ALL CIRCUITRY PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, AND CEILING.
- REFER TO ELECTRICAL EQUIPMENT AND CONTROL SCHEDULE FOR HVAC/PLUMBING EQUIPMENT CIRCUITRY, CONTROLS & ADDITIONAL INFORMATION.
- 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.
- 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.
- 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, UNISTRUT, FASTENERS, JOISTS CLAMPS, ETC. MOUNT STARTERS, VFD'S, DISCONNECTS, RELAYS, AND OTHER ELECTRICAL CONTROL DEVICES AND ENCLOSURES AT LOCATION(S) INDICATED IN ELECTRICAL EQUIPMENT & CONTROL SCHEDULE(S). ALLOW MAINTENANCE ACCESS AND SERVICE SPACE AT EACH LOCATION.
- 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, KIC RATINGS, ETC.
- 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.
- 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.
- 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.
- 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.
- VFDS ARE TO BE FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ALL WORKERS ON SITE MUST WEAR HARD HATS AND EYE PROTECTION AT ALL TIMES. (ON SCHOOL GROUNDS)

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YONKERS PUBLIC SCHOOLS STORAGE AREA RENOVATIONS
Martin Luther King Elementary School
 135 Locust Hill Avenue, Yonkers N.Y. 10701
 S.E.D.# 66-25-06-01-0-233-009

E&R PROJECT NO. Y19M001
YPS NO. 10875

BD SET 11.22.2022
S.E.D. ADDENDUM 11.29.2021
S.E.D. SUBMISSION 04.09.2021

REVISION DATE

DATE 11.22.2022

DRAWN BY

CHECKED BY

SHEET SIZE 30"x42"

SCALE AS SHOWN

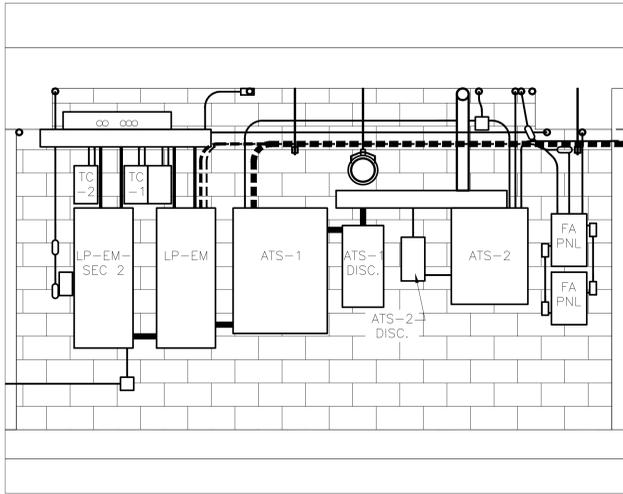
SHEET TITLE

ABBREVIATIONS AND SYMBOLS

SHEET NO. E-001

FILE PATH: N:\1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Yonkers Public Schools\Martin Luther King School\01-001.dwg

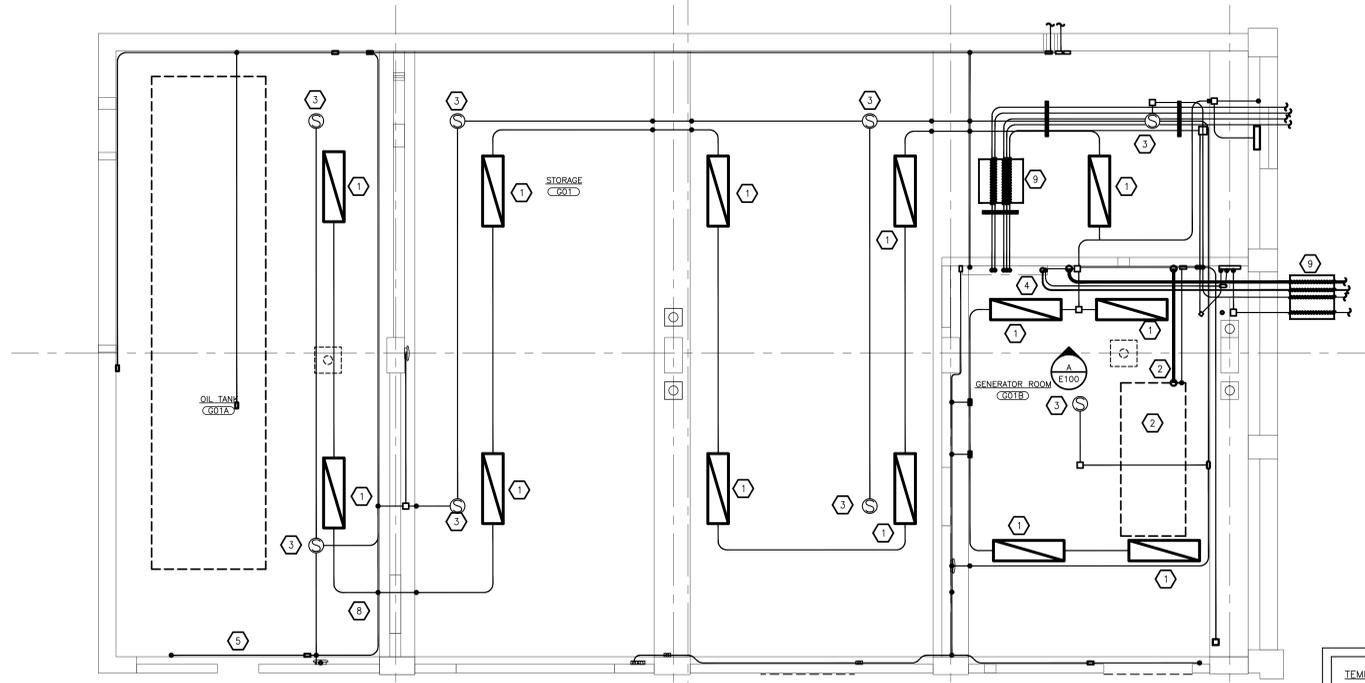
- KEYED NOTES - DEMOLITION**
- REMOVE EXISTING 1'x4' LIGHT FIXTURES. STORE IN SPACE DESIGNATED BY DISTRICT REPRESENTATIVE.
 - DISCONNECT EXISTING GENERATOR APPURTENANCES FROM SERVICE. DISCONNECT FROM FLOOR AND SAFELY MOVE GENERATOR WITHIN THE GENERATOR ROOM AS NEEDED DURING RENOVATIONS. PROVIDE COVER TO PROTECT GENERATOR.
 - REMOVE EXISTING SMOKE DETECTORS, CONDUIT AND ALL APPURTENANCES. STORE IN SPACE DESIGNATED BY DISTRICT REPRESENTATIVE.
 - REMOVE AUTOMATIC TRANSFER SWITCH, PANELS, AND ALL APPURTENANCES. STORE IN SPACE DESIGNATED BY DISTRICT REPRESENTATIVE.
 - DISCONNECT POWER TO EXHAUST FAN.
 - CONDUIT SUPPORTED FROM CEILING FOR EMERGENCY POWER TO BE DISCONNECTED FROM CEILING AND SUPPORTED OFF THE FLOOR DURING CEILING RENOVATIONS.
 - PROVIDE TEMPORARY GENERATOR. SEE GENERATOR NOTES.
 - MOVE EXISTING EXIT SIGN TO NEW LOCATION OF RELOCATED DOOR. COORDINATE WITH GC
 - DISCONNECT WIRING & CONDUIT FROM GENERATOR PANELS AND RELATED BRANCH CIRCUITS. PREPARE FOR SPLICE TO TEMPORARY GENERATOR.



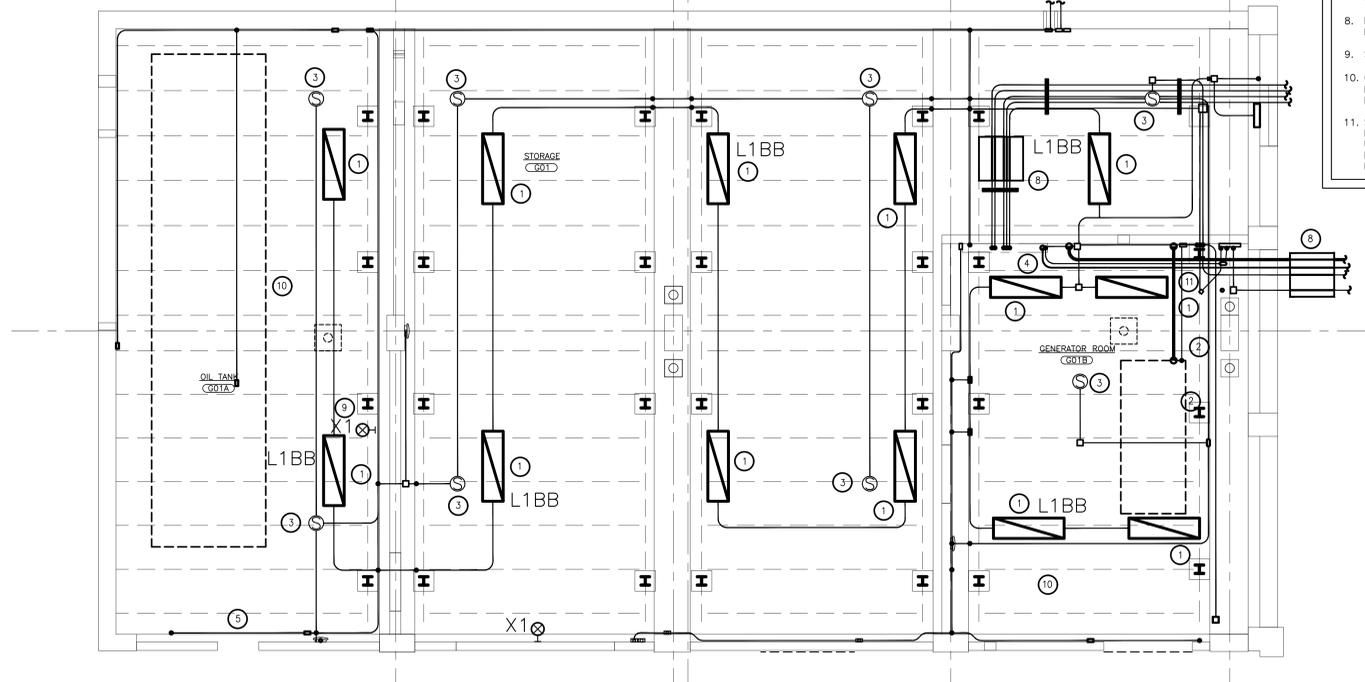
3 ELEVATION A
SCALE: 1/2" = 1'-0"

- KEYED NOTES - NEW WORK**
- SEE E001 FOR NEW LIGHT FIXTURES L-1 AND ALL APPURTENANCES. REUSE CIRCUITS
 - REINSTALL EXISTING 100 KW GENERATOR AND ALL APPURTENANCES. RECONNECT TO FLOOR.
 - REINSTALL EXISTING SMOKE DETECTORS, CONDUIT AND ALL APPURTENANCES.
 - REINSTALL AUTOMATIC TRANSFER SWITCH, PANELS, AND ALL APPURTENANCES.
 - RECONNECT POWER TO EXHAUST FAN.
 - CONDUIT SUPPORTED FROM CEILING FOR EMERGENCY POWER TO BE DISCONNECTED FROM CEILING AND SUPPORTED OFF THE FLOOR DURING CEILING RENOVATIONS.
 - REMOVE TEMPORARY GENERATOR AND RECONNECT PERMANENT (EXISTING) GENERATOR. SEE GENERATOR NOTES.
 - PROVIDE AND INSTALL SPLICE BOXES, LOCATION TO BE COORDINATED WITH OWNER. SIZE TO ACCOMMODATE ASSOCIATED WIRE RUNS. CONNECT TO TEMPORARY GENERATOR AND ENSURE SYSTEM CONTINUITY. UPON COMPLETION OF PROJECT, RECONNECT TO ORIGINAL PANELS. RESTORE SYSTEM TO ORIGINAL CONFIGURATION.
 - REINSTALL EMERGENCY EXIT SIGN IN TANK ROOM AFTER ACCESS DOOR IS MOVED TO NEW LOCATION. PROVIDE NEW EXIT SIGN IF REQUIRED.
 - FIELD VERIFY LOCATION OF MAIN TANK AND GENERATOR TANK ALARMS ON CEILING, AND REINSTALL BELOW DECKING.
 - REMOVE EXISTING FA EQUIPMENT AND RELOCATE TEMPORARILY. COORDINATE WITH OWNER FOR TEMPORARY LOCATION. TEST AND ENSURE FA SYSTEM OPERATES. REINSTALL FA EQUIPMENT AFTER CONSTRUCTION IS COMPLETED. RESTORE & TEST FA SYSTEM TO FULL FUNCTIONALITY.

NOTE: MAKE NECESSARY ADJUSTMENTS WHEN REINSTALLING PANELS, LIGHTS, ETC. SEE P-110 REGARDING STARTUP AND TESTING OF GENERATOR AFTER PLUMBING WORK HAS CONCLUDED.



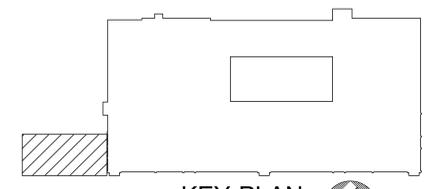
1 PARTIAL GROUND FLOOR PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"



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



- TEMPORARY GENERATOR NOTES**
- WORK TO BE COMPLETED WHEN SCHOOL IS NOT IN SESSION.
 - ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ANY MAINTENANCE OF THE TEMPORARY GENERATOR AND FUELING OF TEMPORARY GENERATOR. INCLUDE 250 GALLONS OF DIESEL FUEL AS PART OF CONTRACT.
 - PROVIDE TEMPORARY 100KW GENERATOR AND TRANSFER SWITCH WITH LOCATION TO BE AGREED UPON BY OWNER. DO NOT PLACE THE TEMPORARY GENERATOR ABOVE THE AREA IN WHICH STRUCTURAL WORK IS TAKING PLACE. (TEMPORARY GENERATOR TO BE LOCATED ON LOWER LEVEL ON THE WEST SIDE OF THE SCHOOL COORDINATE WITH DISTRICT REPRESENTATIVE) PROVIDE TEMPORARY PULL BOX FOR GENERATOR FOR DISCONNECTION. GENERATOR AND ATS SHALL BE CONFIGURED TO AUTOMATICALLY ACTIVATE WHEN UTILITY POWER IS LOST.
 - CONNECT TO EXISTING TRANSFER SWITCH AND CONTROLS FOR AUTOMATIC ACTIVATION.
 - START AND TEST TEMPORARY GENERATOR.
 - ONCE RENOVATIONS HAVE CONCLUDED, EMPTY TEMPORARY GENERATOR TANK(S) AND MOVE FUEL TO MAIN EXISTING DIESEL TANK. COORDINATE WITH PLUMBING CONTRACTOR.
 - DISCONNECT THE TEMPORARY GENERATOR AND RECONNECT PERMANENT (EXISTING) GENERATOR TO SERVICE.
 - RECONNECT GENERATOR TO EXISTING TRANSFER SWITCH AND CONTROLS FOR AUTOMATIC ACTIVATION.
 - START AND TEST PERMANENT (EXISTING) GENERATOR.
 - CONTRACTOR TO VERIFY EXISTING ELECTRICAL LINES/BOXES AT CEILING LEVEL TO SEE IF THEY ARE DEAD OR LIVE. DISCONNECT AND CAP AS REQUIRED.
 - SPLICE TEMPORARY GENERATOR CABLES AS REQUIRED TO NEW SPLICE BOXES. MAINTAIN SYSTEM INTEGRITY FOR DURATION OF CONSTRUCTION. UPON REINSTALLATION OF GENERATOR ELECTRICAL PANEL, RECONNECT FROM SPLICE BOX TO ORIGINAL PANEL. ENSURE AND TEST SYSTEM TO RESTORE TO ORIGINAL STATE.



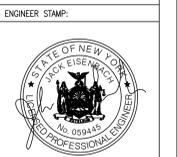
KEY-PLAN
SCALE: NONE

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YONKERS PUBLIC SCHOOLS
STORAGE AREA RENOVATIONS
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-26-00-01-0-233-009

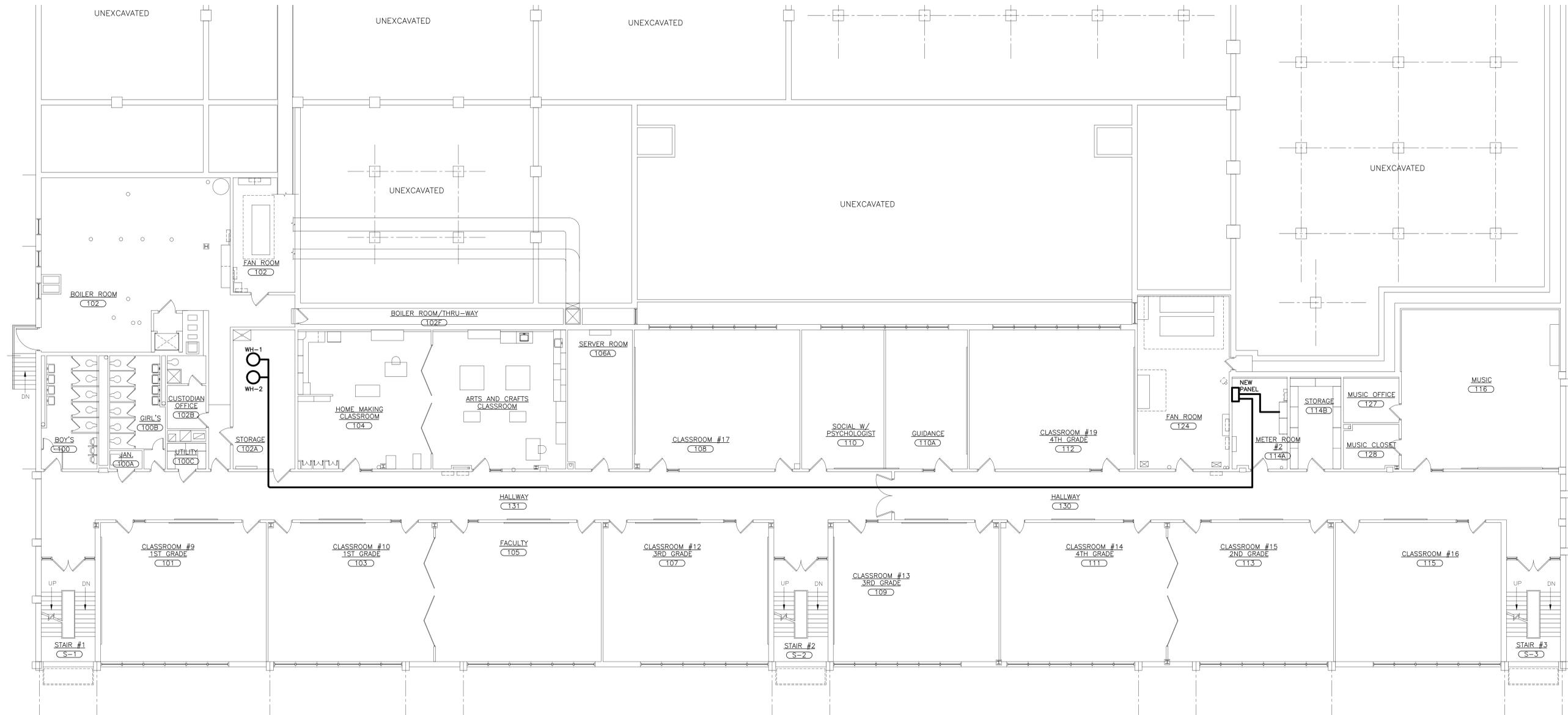
EMR PROJECT NO.	Y19MJK01
YPS NO.	10875

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S.E.D. ADDENDUM	11.29.2021
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DATE	11.22.2022
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CHECKED BY	
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SCALE	AS SHOWN

SHEET TITLE
PARTIAL GROUND FLOOR PLAN - TANK ROOM - DEMOLITION AND NEW WORK

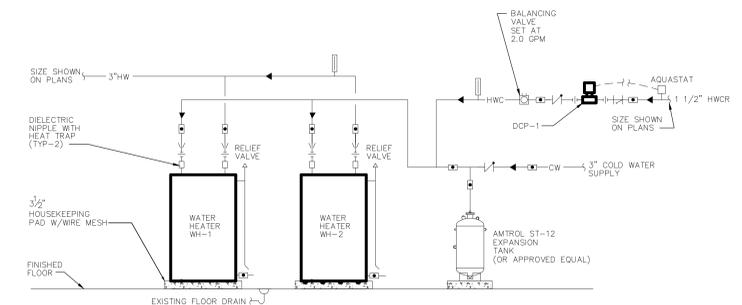
SHEET NO.
E-110

FILE PATH: -N-1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MJK01_CIP# 10875 YPS MLK Roof, Boiler, Window, & Select Interior Upgrades\CAD\Tank Room\Y19mjk01e110.dwg



1 FIRST FLOOR PLAN - NEW WORK

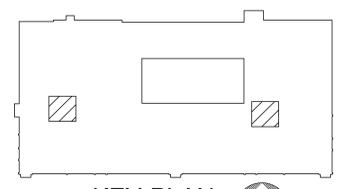
SCALE: 1/8" = 1'-0"
 0 2' 8' 32'
 4' 16'



NOTE: LOCATION OF NEW WATER HEATERS WILL BE IN THE STORAGE ROOM 102A. COORDINATE FINAL LOCATION WITH DISTRICT

PROVIDE 100 AMP PANEL, 208 3 PHASE 4 WIRE IN METER ROOM #02-114A. TAP OFF EXISTING MIP AS REQUIRED.
 PROVIDE 3" #1/2" AND 1" #1/2" GRD IN 2" CONDUIT TO NEW PANEL
 PROVIDE 2-40 AMP BREAKERS FOR NEW WATER HEATERS
 PROVIDE 1-20 AMP BREAKER, AND 1 TC FOR DCP-1 #10/W/GRD
 PROVIDE 2 CIRCUITS WITH #4 AND GRD IN 1 1/2" CONDUIT TO WATER HEATERS
 PROVIDE ALL APPURTENANCES

(WH-1&2) PIPING CONNECTION AT WATER HEATER DETAIL
 SCALE: NONE

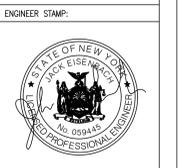


KEY-PLAN
 SCALE: NONE

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YONKERS PUBLIC SCHOOLS
STORAGE AREA RENOVATIONS
Martin Luther King Elementary School
 135 Locust Hill Avenue, Yonkers, N.Y. 10701
 S.E.D.# 66-05-00-01-0-233-009

EMR PROJECT NO.	Y19MK01
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SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE

FIRST FLOOR PLAN - NEW WORK AND DETAIL

SHEET NO.

E-111

FILE PATH: -N-1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Yonkers Public Schools\Y19MK01 DCP# 10875 YPS MLK Roof, Boiler, Window, & Select Interior Upgrades\CAD\Work Room\Y19mk01e110.dwg

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

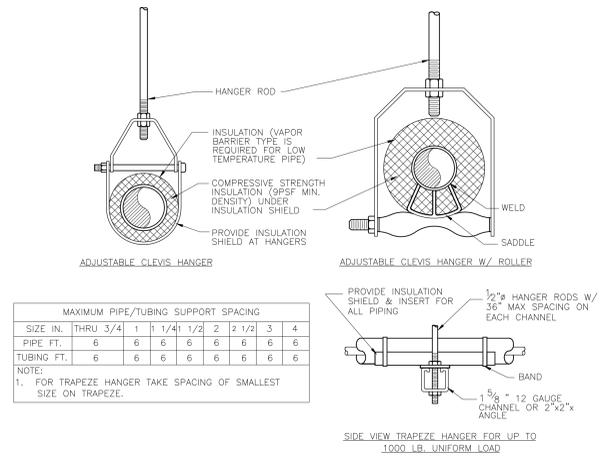
- GENERAL PLUMBING NOTES:**
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT; HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFICALLY SPECIFIED TO MAKE THE SYSTEMS BEING INSTALLED COMPLETE, CODE COMPLIANT, TESTED AND OPERATIONAL.
 - CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
 - 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.
 - 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.
 - PROTECT ALL EXISTING AND NEW BUILDING ELEMENTS FROM DAMAGE. CONTRACTOR SHALL RESTORE ALL DAMAGED ELEMENTS TO ORIGINAL OR BETTER CONDITION.
 - 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.
 - MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN MANUFACTURER'S EQUIPMENT CLEARANCES.
 - 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.
 - ALL EQUIPMENT PIPING, WIRING, INSULATION ETC. INSTALLED IN HVAC AIR PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
 - SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS AND FLOORS WITH UL RATED MATERIALS/METHODS EQUIVALENT TO FIRE RATING OF ASSEMBLY.
 - PROVIDE PROPER ACCESS TO EQUIPMENT THAT REQUIRES INSPECTION, REPLACEMENT OR REPAIR. ACCESS PANELS/DOORS SHALL BE A MINIMUM OF 12"x12", UNLESS OTHERWISE NOTED.
 - 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.
 - PLUMBING CONTRACTOR IS RESPONSIBLE FOR JETTING/SNAKING ALL SANITARY WASTE LINES (ALL FLOOR DRAINS) SHOWN ON THE DRAWINGS TO BE FULLY OPERATIONAL.
 - 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.
 - ALL WORKERS ON SITE MUST WEAR HARD HATS AND EYE PROTECTION AT ALL TIMES. (ON SCHOOL GROUNDS)
 - CONTRACTOR TO EMPTY GENERATOR OIL TANK AND TRANSFER FUEL TO A TEMPORARY TANK AS DESIGNATED AREA BY YPS. ASSUME 500 GALLONS OF DIESEL FUEL FOR BIDDING PURPOSE ONLY. PLUG ALL HOLES IN TANK WHEN PROVIDING DEMO AND NEW WORK. PRESSURE TEST TANK AND RECOMMISSION TANK PER CODES.
 - CONTRACTOR TO EMPTY HEATING OIL TANK AND TRANSFER FUEL TO TEMPORARY TANK AS DESIGNATED AREA BY YPS. ASSUME 100 GALLONS OF HEATING FUEL FOR BIDDING PURPOSE ONLY. PLUG ALL HOLES IN TANK WHEN PROVIDING DEMO AND NEW WORK. PRESSURE TEST TANK AND RECOMMISSION TANK PER CODES.
 - CONTRACTOR TO PROVIDE PLUGS FOR EXISTING PARKING AREA DRAINS AND DIVERT WATER AROUND WORK AREAS. COORDINATE WITH DISTRICT FOR LOCATIONS

DAMAGE TO WALLS AND/OR CEILINGS DURING YOUR SCHEDULED WORK

- 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.
- 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.



1 PIPE SUPPORT DETAIL
SCALE: NONE

ENGINEER:
Eisenbach & Rutke Engineering, P.C.
235 Garden Street - Garden City, NY 11530
Tel: 516.892.4444 Fax: 516.735-1365
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ENGINEER STAMP:
STATE OF NEW YORK
Professional Engineer
No. 058445
Exp. 12/31/2024

YONKERS PUBLIC SCHOOLS STORAGE AREA RENOVATIONS
Martin Luther King Elementary School
135 Locust Hill Avenue, Yonkers N.Y. 10701
S.E.D.# 66-26-00-01-0-233-009

E&R PROJECT NO. Y19MLK01
YPS NO. 10875

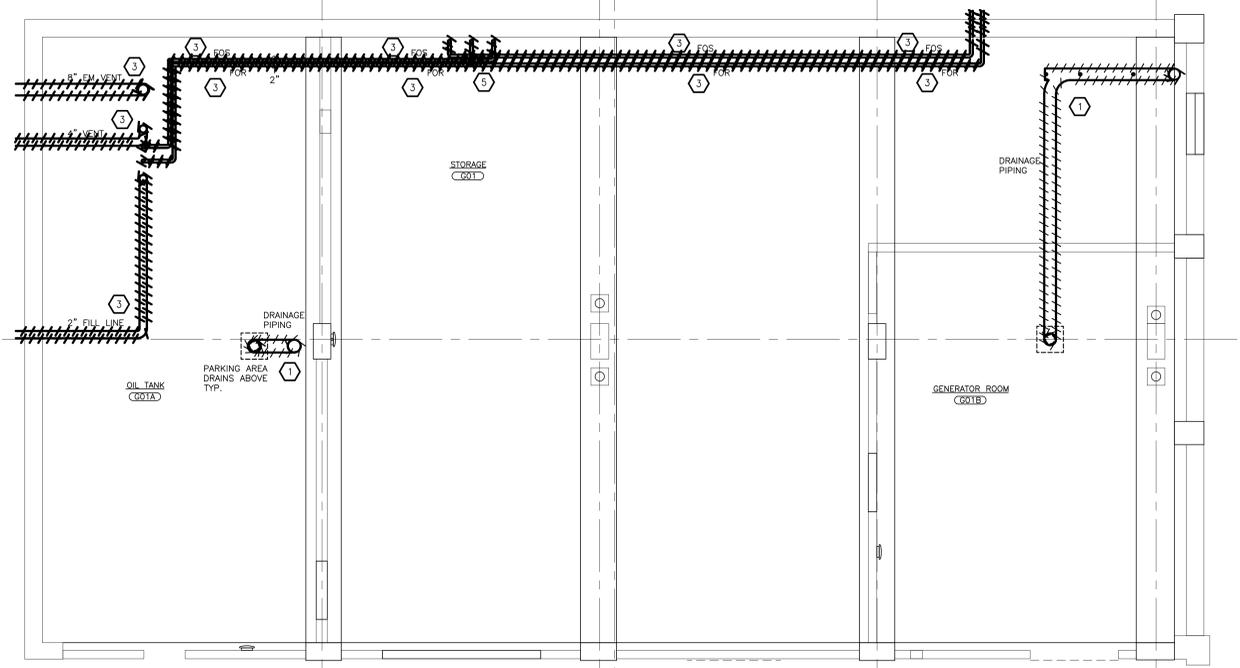
REVISED:
DATE: 11.22.2022
DRAWN BY: [Signature]
CHECKED BY: [Signature]
SHEET SIZE: 30"x42"
SCALE: AS SHOWN

ABBREVIATIONS AND SYMBOLS

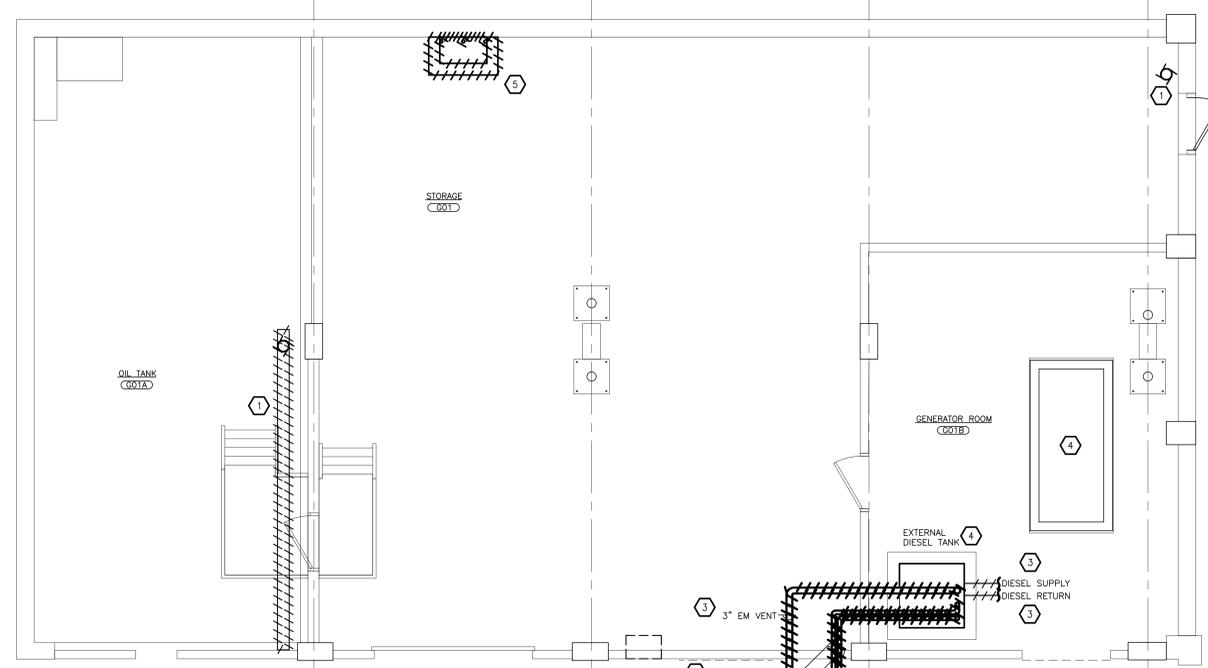
SHEET NO. P-001

FILE PATH: -N-1 - PROJECT DIRECTORIES\Yonkers Public Schools\Martin Luther King School\Y19MLK01 CIP# 10875 YPS MLK Roof, Boiler, Window, & Select Interior Upgrades\CAD\Tank Room\Y19m01.p01.dwg

BD SET 11.22.2022
S.E.D. ADDENDUM 11.29.2021
S.E.D. SUBMISSION 04.09.2021

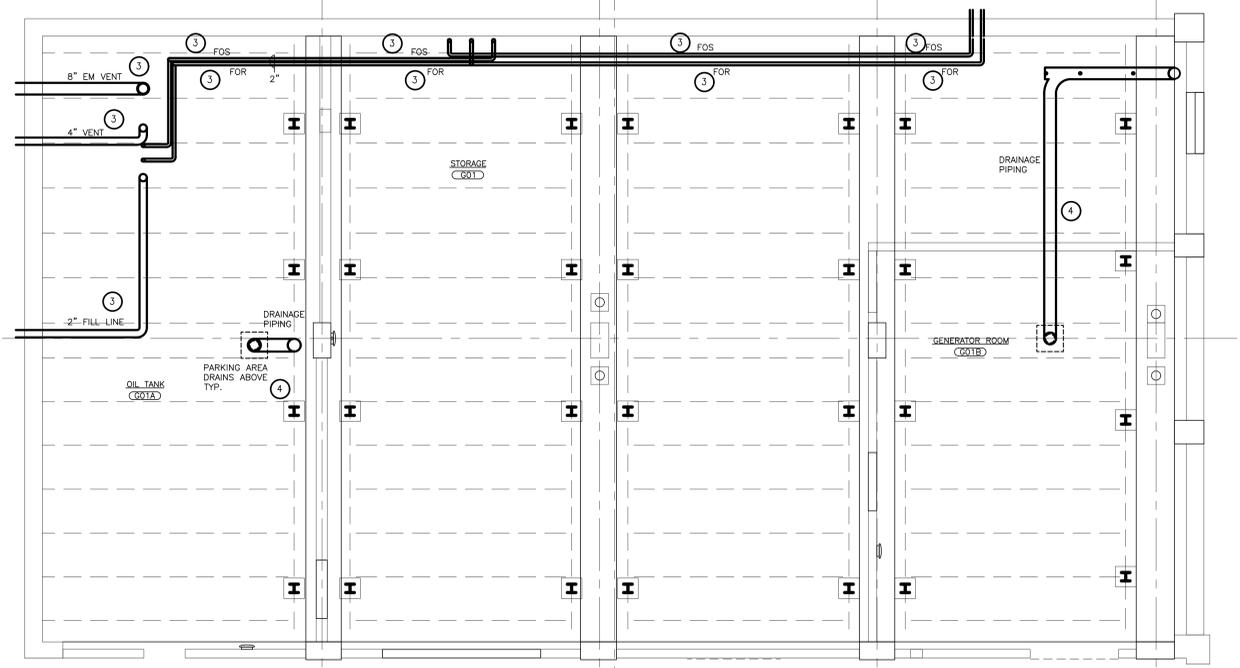


2 PARTIAL REFLECTED CEILING PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"

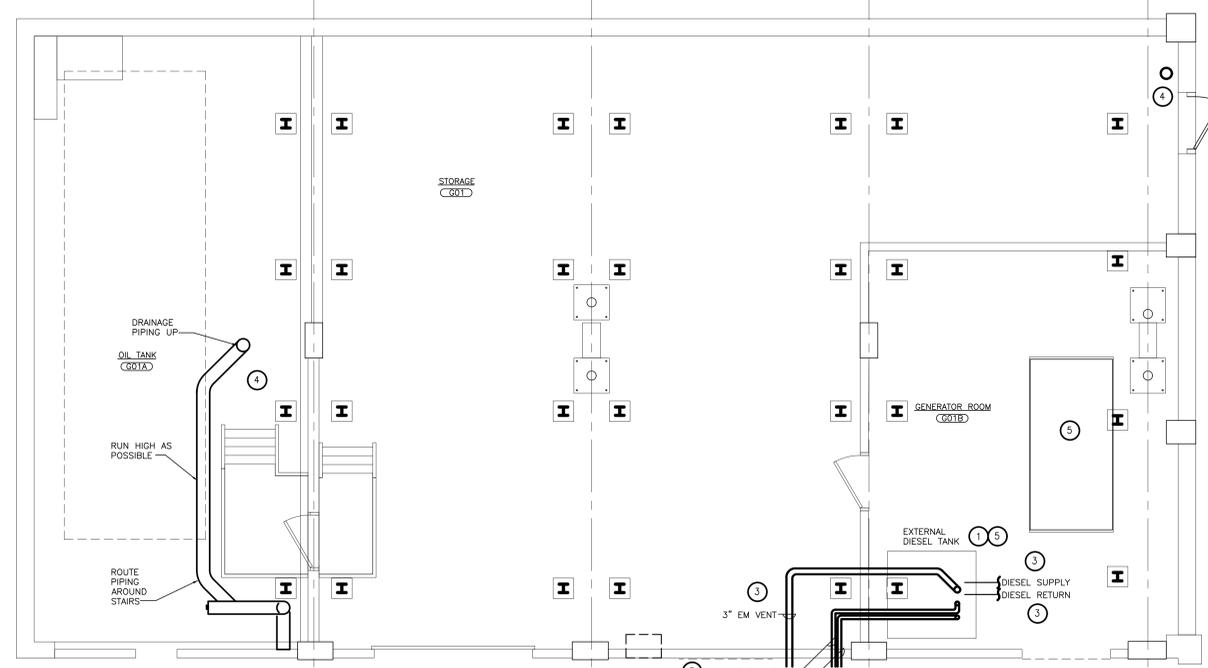


1 PARTIAL GROUND FLOOR PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"

- KEYED NOTES - DEMOLITION**
- 1 REMOVE AND DISPOSE OF DRAIN PIPING. TEMPORARILY CAP AND SEAL DRAINS ABOVE. CONTRACTOR TO PROVIDE PROVISIONS TO PROPERLY DISPOSE OF RAIN WATER FROM PARKING AREA WHILE DRAINS ARE CAPPED.
 - 2 DRAIN FUEL OIL AND DIESEL FUEL FROM EXISTING PIPING INTO SEPARATE CONTAINERS. EMPTY EXTERNAL DIESEL TANK AND DIESEL TANK UNDER GENERATOR AND STORE FUEL FROM BOTH TANKS. STORE FUELS IN NEW AND CLEAN TEMPORARY CONTAINERS. SEAL AND LABEL CONTAINERS ACCORDINGLY. STORE IN VENTILATED OWNER SPECIFIED LOCATION.
 - 3 REMOVE FUEL OIL PIPING, DIESEL FUEL PIPING, AND VENT PIPING. TEMPORARILY CAP REMAINING PIPING.
 - 4 DISCONNECT DIESEL FUEL TANK FROM FLOOR. SAFELY MOVE AROUND GENERATOR ROOM AS NECESSARY DURING RENOVATION. COVER EXTERNAL DIESEL FUEL TANK AND CAP ALL OPEN PIPING CONNECTIONS.
 - 5 REMOVE EXISTING OIL MONITORING EQUIPMENT IN ITS ENTIRETY AND DISCARD.



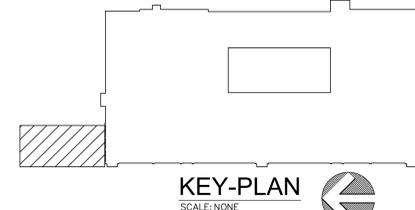
4 PARTIAL REFLECTED CEILING PLAN - NEW WORK
SCALE: 1/4" = 1'-0"



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

- KEYED NOTES - NEW WORK**
- 1 RECONNECT EXTERNAL DIESEL FUEL TANK TO FLOOR. MODIFY CONCRETE PAS AS NEEDED
 - 2 NOT USED
 - 3 PROVIDE NEW FUEL OIL PIPING, DIESEL FUEL PIPING, AND VENT PIPING (FIELD VERIFY SIZE) (PIPING WILL BE CLOSE TO UNDERSIDE OF DECKING)
 - 4 PROVIDE NEW DRAIN PIPING IN SAME LOCATION AS EXISTING, OFFSET AROUND COLUMN AS REQUIRED. CONNECT AND SEAL TO DRAINS ABOVE. REMOVE CAPS FROM DRAINS ABOVE AND RETURN THEM TO SERVICE.
 - 5 RETURN STORED FUEL OIL AND DIESEL FUEL TO THEIR PROPER STORAGE TANKS. PRIME SUPPLY AND RETURN PIPING.
 - 6 COORDINATE WITH ELECTRICAL AND MECHANICAL CONTRACTORS TO INITIATE STARTUP AND TESTING OF BOILERS AND PERMANENT GENERATOR.

NOTE: 1. PROVIDE NECESSARY ADJUSTMENTS WHEN REINSTALLING EQUIPMENT, PIPING, ETC.
2. PROVIDE PROTECTION AROUND TANK AND CONTENTS AS NECESSARY FOR INSTALLATION OF DEMO/NEW WORK



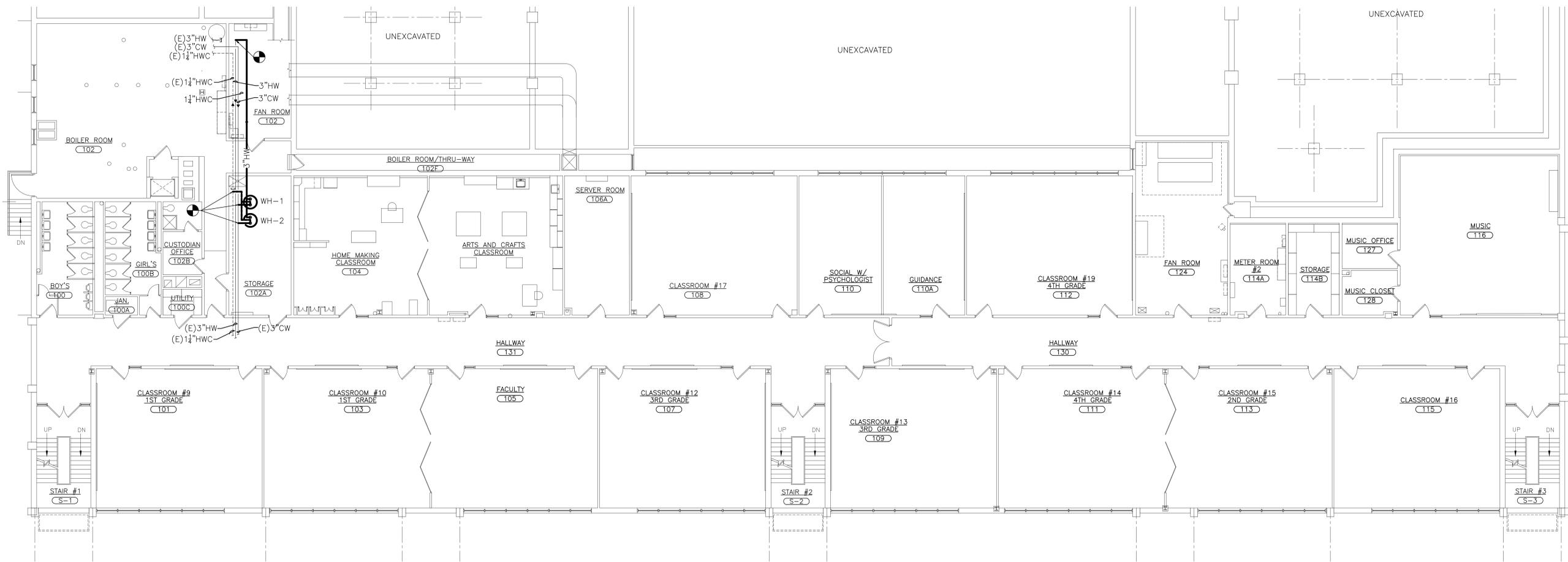
EISENBACH & RAHNKE ENGINEERING, P.C.
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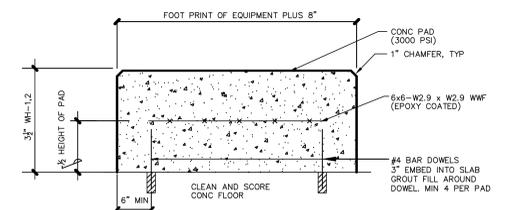
ENGINEER STAMP:

YONKERS PUBLIC SCHOOLS
STORAGE AREA RENOVATIONS
 Martin Luther King Elementary School
 135 Loudon Hill Avenue, Yonkers, N.Y. 10701
 S.E.D.# 8625400149234589

E&R PROJECT NO.	Y19MK01
YPS NO.	10875
BO SET	11.22.2022
S.E.D. ADDENDUM	11.29.2021
S.E.D. SUBMISSION	04.09.2021
REVISION	DATE
DATE	11.22.2022
DRAWN BY	
CHECKED BY	
SHEET SIZE	30"x42"
SCALE	AS SHOWN
SHEET TITLE	
PARTIAL GROUND FLOOR PLAN - TANK ROOM - DEMOLITION AND NEW WORK	
SHEET NO.	
P-110	



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



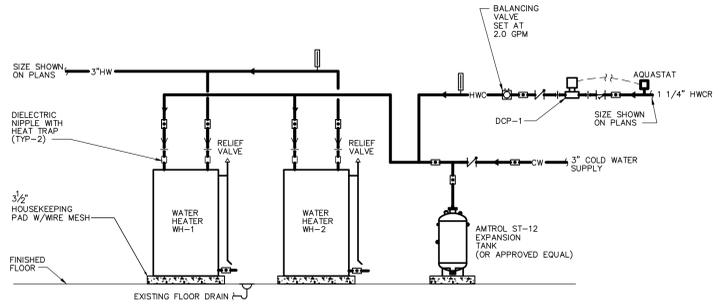
2 CONCRETE PAD DETAIL
SCALE: NONE

PUMP SCHEDULE									
NO.	LOCATION	SERVICE	GPM	HEAD FT WATER	MOTOR			DESIGN MAKE	
					WATTS/HP	VOLTAGE	PHASE		MAX. RPM
DCP-1	MECHANICAL ROOM	CIRCULATING	2	15	1	115	1	3300	BELL & GOSSETT ECCOCIRC 19-16 (STAINLESS STEEL)

NOTE: PROVIDE DCP-1, LEAD FREE MODEL AND AUTOMATIC TIMER AND AQUASTAT.

WATER HEATER SCHEDULE							
NO.	SERVING	TYPE	KW	GAL.	GALLONS/ HOUR RECOVERY	TEMP RISE DEG F	DESIGN MAKE
WH-1	BUILDING	ELECTRIC	11	55	25	90	RUUD PROUE55-T2-RU-CG
WH-2	BUILDING	ELECTRIC	11	55	25	90	RUUD PROUE55-T2-RU-CG

NOTE: PROVIDE DUAL ELEMENTS 5500 WATT TO RUN SIMULTANEOUS



NOTE: LOCATION OF NEW WATER HEATERS WILL BE IN THE STORAGE ROOM 102A. COORDINATE FINAL LOCATION WITH DISTRICT

3 (WH-1&2) PIPING CONNECTION AT WATER HEATER DETAIL
SCALE: NONE

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

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ENGINEER STAMP:

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 STORAGE AREA RENOVATIONS
 Martin Luther King Elementary School
 135 Locust Hill Avenue, Yonkers, N.Y. 10701
 S.E.D.# 662540014923468

E&R PROJECT NO.	Y19MK01
YPS NO.	10875
NO SET	11.22.2022
S.E.D. ADDENDUM	11.29.2021
S.E.D. SUBMISSION	04.09.2021

REVISION	DATE
DATE	11.22.2022
DRAWN BY	
CHECKED BY	
SHEET SIZE	30"x42"
SCALE	AS SHOWN

SHEET TITLE
 PARTIAL FIRST FLOOR
 PLAN - NEW WORK,
 DETAILS AND
 SCHEDULES

SHEET NO.
P-111