APPL. No. A 00-123456

SANTA MONICA - MALIBU UNIFIED SCHOOL DISTRICT

Santa Monica - Malibu Unified School District

Lincoln Middle School
HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

50% Construction Documents
11.27.2019

DSA Stamp

Architect

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1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

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Cover Sheet

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GENERAL NOTES

1. VARIANCES BETWEEN ACTUAL CONDITIONS AND DRAWINGS

A. THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE, AND THE OWNER'S CONSULTANTS WILL ASSUME NO RESPONSIBILITY FOR VARIANCES BETWEEN ACTUAL EXISTING CONDITIONS AND CONDITIONS DEPICTED AS EXISTING ON THE DRAWINGS.

B. THE CONTRACTOR SHALL INSPECT THE SITE AND THE BUILDINGS, AND SHALL VERIFY TO HIS OWN SATISFACTION THE CONDITIONS SHOWN ON THE DRAWINGS, WHICH MATERIALLY AFFECT THE CONTRACTOR'S ABILITY TO EXECUTE THE WORK. HE SHALL IMMEDIATELY INFORM THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE DRAWINGS.

C. THE CONTRACTOR SHALL ASSUME THAT THERE MAY BE MINOR DIFFERENCES BETWEEN ACTUAL FIELD CONDITIONS AND CONDITIONS DEPICTED AS EXISTING ON THE DRAWINGS. THE OWNER WILL NOT CONSIDER REQUESTS FROM THE CONTRACTOR FOR ADDITIONAL CHARGES DUE TO SAID MINOR DISCREPANCIES.

D. IF THE CONTRACTOR ENCOUNTERS MAJOR DIFFERENCES BETWEEN ACTUAL FIELD CONDITIONS AND CONDITIONS DEPICTED AS EXISTING ON THE DRAWINGS, THE CONTRACTOR SHALL STOP WORK IN THE AFFECTED AREA, AND SHALL IMMEDIATELY NOTIFY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE OF SAID DIFFERENCES. THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE WILL PROVIDE INSTRUCTIONS FOR PROCEEDING IN THE AFFECTED AREA. THE CONTRACTOR SHALL PROCEED WITH ALL OTHER WORK ITEMS AS REQUIRED BY THE CONTRACT DOCUMENTS.

2. INTENT OF THE DRAWINGS

A. THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE CONDITIONS THEREON, AND THOROUGHLY ACQUAINT HIMSELF WITH OBSTACLES AND ADVANTAGES FOR PERFORMING THE WORK. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND SPECIFICATIONS, AS THERE ARE REQUIREMENTS SHOWN THEREIN THAT SIGNIFICANTLY AFFECT THE SCOPE OF THE WORK. NO ADDITIONAL CHARGES WILL BE CONSIDERED FOR WORK CAUSED BY THE CONTRACTOR'S UNFAMILIARITY WITH THE SITE, AND THE DRAWINGS AND SPECIFICATIONS, OR FAILURE OF THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE OR OWNER'S CONSULTANTS TO ENUMERATE THE COMPLETE SCOPE OF WORK, AS REQUIRED BY THE CONTRACT DOCUMENTS, IN THE "SCOPE OF WORK" NOTES.

B. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)

3. GENERIC NAMES

THE DRAWINGS IDENTIFY MATERIALS BY GENERIC NAME, UNLESS PREFACED WITH "BASIS OF DESIGN". FOR A DESCRIPTION OF APPROVED MATERIALS AND INSTALLATION PROCEDURES SEE THE SPECIFICATIONS.

4. FINISHES

UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE SELECTION OF COLORS AND TEXTURES FOR FINISH MATERIALS SHALL BE PROVIDED BY THE ARCHITECT PRIOR TO EXECUTION OF THE WORK.

5. PROJECT COORDINATION

SEE THE GENERAL CONDITIONS, THE SUPPLEMENTARY CONDITIONS AND DIVISION 1 OF THE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS RELATED TO PROJECT COORDINATION.

6. CODES AND REGULATIONS

ALL CONSTRUCTION SHALL FULLY COMPLY WITH THE LOCAL BUILDING CODES AND REGULATIONS. ALL WORK SHALL ALSO CONFORM TO TITLE 24, 2016 CALIFORNIA CODE OF REGULATIONS (CCR).

7. PERMITS

A. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY GOVERNING AUTHORITIES FOR THE COMPLETION OF THE WORK. THE FEES, CHARGES OR OTHER COSTS PAID BY THE CONTRACTOR FOR SAID PERMITS WILL BE REIMBURSED TO THE CONTRACTOR BY THE OWNER IN THE AMOUNTS SO PAID.

B. THE CONTRACTOR SHALL PROCURE ALL NOTICES AND LICENSES REQUIRED FOR THE COMPLETION OF THE WORK. THE COST OF THESE NOTICES AND LICENSES IS INCIDENTAL TO OTHER ITEMS OF WORK AND NO ADDITIONAL PAYMENT WILL BE MADE FOR COSTS INCURRED BY OBTAINING NOTICES AND LICENSES OR IN CONFORMING TO THE REQUIREMENTS THEREOF.

C. TRENCHES OR EXCAVATIONS 5 FEET OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND, REQUIRE A SEPARATE PERMIT FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY.

D. PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THE CONTRACTOR SHALL HAVE EVIDENCE OF CURRENT WORKMAN'S COMPENSATION INSURANCE COVERAGE.

8. GENERAL CONDITIONS

THE GENERAL CONDITIONS AND ANY SUPPLEMENTAL CONDITIONS WHICH MAY BE ATTACHED OR INCLUDED AS PART OF OWNER - CONTRACTOR AGREEMENT ARE A PART OF THESE CONTRACT DOCUMENTS.

9. THE SPECIFICATIONS

SPECIFICATIONS, WHICH ARE BOUND SEPARATELY, ARE PART OF THE CONTRACT. REFERENCE TO SECTIONS OF THE SPECIFICATIONS IN THE NOTES DESCRIBING THE SCOPE OF WORK ARE INTENDED AS A GUIDE ONLY AND TO ASSIST THE CONTRACTOR IN UNDERSTANDING THE COMPLETE SCOPE OF WORK.

10. BIDDING

ALL CONTRACTORS, SUB OR GENERAL, BIDDING OR CONSTRUCTING ANY PORTION OF THIS PROJECT, SHALL BE HELD TO BE RESPONSIBLE TO REVIEW AND INCLUDE IN ANY BID SUBMITTED, ALL OTHER DRAWINGS AND SPECIFICATIONS, WHICH FORM A PART OF THESE CONSTRUCTION DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ARCHITECTURAL, GENERAL NOTES, CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND EQUIPMENT PLANS AS MAY APPLY TO SAID TRADE BIDDING.

11. VERIFICATION

THE CONTRACTOR SHALL VERIFY ALL SIZES OR PREPARATORY WORK FOR EQUIPMENT OF OTHERS AND SHALL COORDINATE THE WORK ON THIS CONTRACT WITH ALL WORK FURNISHED BY OTHERS.

12. DISCREPANCIES

A. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND ALL EXISTING CONDITIONS AT THE SITE BEFORE COMMENCING WORK, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE START OF WORK.

B. IF ANY ERRORS OR OMISSION APPEAR IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH ERRORS OR OMISSIONS. IF THE CONTRACTOR FAILS TO GIVE SUCH NOTICE IMMEDIATELY, HE WILL BE HELD RESPONSIBLE FOR THE RESULTS OF SUCH ERRORS OR OMISSIONS AND FOR THE COST OF RECTIFYING SAME.

C. IN CASE OF DISCREPANCIES BETWEEN ARCHITECTURAL AND CONSULTANT DRAWINGS, THE ARCHITECT WILL DETERMINE THE CORRECT INTENT OF THE WORK.

D. SHOULD THE DRAWINGS IN THEMSELVES OR WITH THE SPECIFICATIONS OR SHOULD THE SPECIFICATIONS IN THEMSELVES DISAGREE, THE HIGHER QUALITY AND / OR GREATER QUANTITY OF WORK OR MATERIAL SHALL BE ESTIMATED UPON, AND UNLESS OTHERWISE CLARIFIED IN WRITING BY THE ARCHITECT, SHALL BE FURNISH AND INSTALLED.

13. DESIGN INTENT

THE CONTRACTOR SHALL NOT DEVIATE FROM THE DESIGN INTENT AND CONSTRUCTION DETAILS WITHOUT OBTAINING PRIOR APPROVAL FROM THE OWNER AND THE ARCHITECT.

14. DETAILS

DETAILS ARE NOT INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING THE WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT THE JOB DIMENSIONS OR CONDITIONS AND SHALL BE INCLUDED AS PART OF THE WORK.

15. DIMENSIONS

DIMENSIONS ARE TO FACE OF STUD (FOS), FACE OF CONCRETE (FOC) OR FACE OF MASONRY (FOM) UNLESS NOTED OTHERWISE. DIMENSIONS AS SHOWN TAKE PRECEDENCE OVER ANY CONDITIONS GRAPHICALLY SHOWN ON THE DRAWINGS. DO NOT SCALE THE DRAWINGS. WHEN IN DOUBT, ASK THE ARCHITECT FOR A CLARIFICATION.

16. DEFINITIONS

"TYPICAL" MEANS ALL, EXCEPT AS SPECIFICALLY NOTED. "SIMILAR" MEANS THERE ARE SLIGHT VARIATIONS AMONG CONDITIONS WHERE THE DETAIL OCCURS.

17. DAMAGE AND THEFT

ANY WORK OR MATERIALS OF ONE TRADE DAMAGED BY ANOTHER TRADE BECOMES THE RESPONSIBILITY OF THE OFFENDING TRADE. THE DAMAGED WORK SHALL BE REPAIRED OR REPLACED BY THE ORIGINAL INSTALLER AND THE COSTS BORN E BY THE OFFENDER. ANY MATERIALS STOLEN FROM THE PREMISES OR DAMAGED EITHER BEFORE OR AFTER INSTALLATION SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL TAKEN ALL NECESSARY PRECAUTIONS SUCH AS BARRICADES, GUARDS, ETC., AS REQUIRED TO PREVENT DAMAGE AND THEFT. SPECIAL CARE SHALL BE TAKEN TO PROTECT WORK IN PLACE, MATERIALS AND EQUIPMENT STORED, ETC., FROM THEFT AND VANDALISM.

18. PROTECTION OF EXISTING UTILITIES

THE CONTRACTOR SHALL MAINTAIN THE UTILITIES TO THE EXISTING BUILDING OR PROVIDE TEMPORARY SERVICE CONNECTIONS AS REQUIRED.

19. COORDINATION OF TRADES

A. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY ARRIVAL OF ALL SPECIFIED FINISH MATERIALS, EQUIPMENT, LIGHT FIXTURES AND OTHER SUCH MATERIAL'S) TO BE UTILIZED ON THIS PROJECT. THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING WITHIN 30 DAYS OF THE DATE OF CONTRACT OF THOSE SPECIFIED ITEMS THAT MAY NOT BE READILY AVAILABLE AND OF EQUAL QUANTITY AND DESCRIPTION. IF NOTIFICATION IS NOT RECEIVED BY THE ARCHITECT, THE CONTRACTOR SHALL ACCEPT RESPONSIBILITY FOR THE PROPER ORDERING AND FOLLOW UP ON SPECIFIED ITEMS AND SHALL PURSUE WHATEVER MEANS NECESSARY AT NO ADDITIONAL COST TO THE OWNER, TO INSURE AVAILABILITY OF ALL SPECIFIED ITEMS SO AS NOT TO CREATE A HARDSHIP ON THE OWNER AND NOT TO DELAY PROGRESS OF THE WORK. NO EXTENSION OF TIME TO THE CONTRACT WILL BE ALLOWED FOR THE CONTRACTOR'S INABILITY TO SECURE SPECIFIED ITEMS.

B. CONTRACTOR SHALL PROVIDE AND LOCATE ACCESS PANELS AS REQUIRED AFTER INSTALLATION OF MECHANICAL DUCTS, PLUMBING AND ELECTRICAL WORK. COORDINATE WITH ARCHITECT. CONTRACTOR SHALL PROVIDE A LAYOUT OF ALL ACCESS PANELS TO THE OWNER, OWNER'S REPRESENTATIVE AND ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF EQUIPMENT REQUIRING SAID ACCESS PANELS.

C. WHERE FACTORY FINISHED OR FACTORY PRIMED ITEMS OCCUR, SUCH AS GRILLS, DIFFUSERS, METAL TRIM AND ACCESSORIES, ETC., THEY SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE AS DIRECTED BY THE ARCHITECT.

D. CONTRACTOR SHALL COORDINATE THE WORK AMONG ALL TRADES RELATING TO THE MOUNTING AND ATTACHMENTS OF ALL EQUIPMENT AS REQUIRED.

E. CONTRACTOR SHALL PROVIDE AND COORDINATE THE EXACT DIMENSIONS, SIZES AND POSITIONS OF OPENINGS IN SLABS AND WALLS NECESSARY FOR THE INSTALLATION OF THE WORK.

F. CONTRACTOR SHALL PROVIDE MOUNTING PLATES AS REQUIRED BEHIND ALL WALL-MOUNTED ITEMS SUCH AS HANDRAILS, RESTROOM PARTITIONS, RESTROOM ROOM ACCESSORIES, LIGHT FIXTURES, ETC..

20. DUST CONTROL AND INTERIOR BARRICADES

CONTRACTOR SHALL MAINTAIN CONTINUOUS DUST ABATEMENT PROCEDURES INCLUDING VACUUMING, TRASH REMOVAL AND MATS AT ALL ENTRIES TO THE CONSTRUCTION AREA. PROVIDE EFFECTIVE DUST CONTROL BY MEANS OF FREQUENT SPRINKLING AND WATERING. EXCESSIVE BLOWING OF DUST OR CONCRETE MAY BE PUMPED. THE JOB SITE SHALL BE LEFT CLEAN AND ORDERLY AT THE END OF EACH DAY.

21. CLEANUP

CONTRACTOR SHALL AT ALL TIMES KEEP THE SITE CLEAN AND FREE OF ALL WASTE MATERIAL OR RUBBISH CAUSED BY HIS OPERATIONS. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL WASTE MATERIALS AND RUBBISH FROM AND ABOUT THE PROJECT AS WELL AS ALL TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIALS.

22. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. SEE DSA IR A6

23. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL HAVE CLASS 3 CERTIFICATION AND PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

24. NEW WORK SHALL CONFORM TO THE REQUIREMENTS OF THE EXISTING CONSTRUCTION TYPE.

25. NOT USED

26. DRINKING WATER WELL SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS.

27. AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN CONCRETE WORK WILL BE REQUIRED FOR THIS PROJECT.

28. DO NOT ALTER OR REMOVE ANY EXISTING SHEAR WALLS OR BEARING WALLS UNLESS SO IDENTIFIED ON THE DRAWINGS AND APPROPRIATE DETAILS ARE PROVIDED AND APPROVED BY D.S.A.

29. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

30. FOR FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION COMPLY WITH CFC CHAPTER 14

31. ALL WORK SHALL CONFORM TO 2016 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

32. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

33. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OF NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

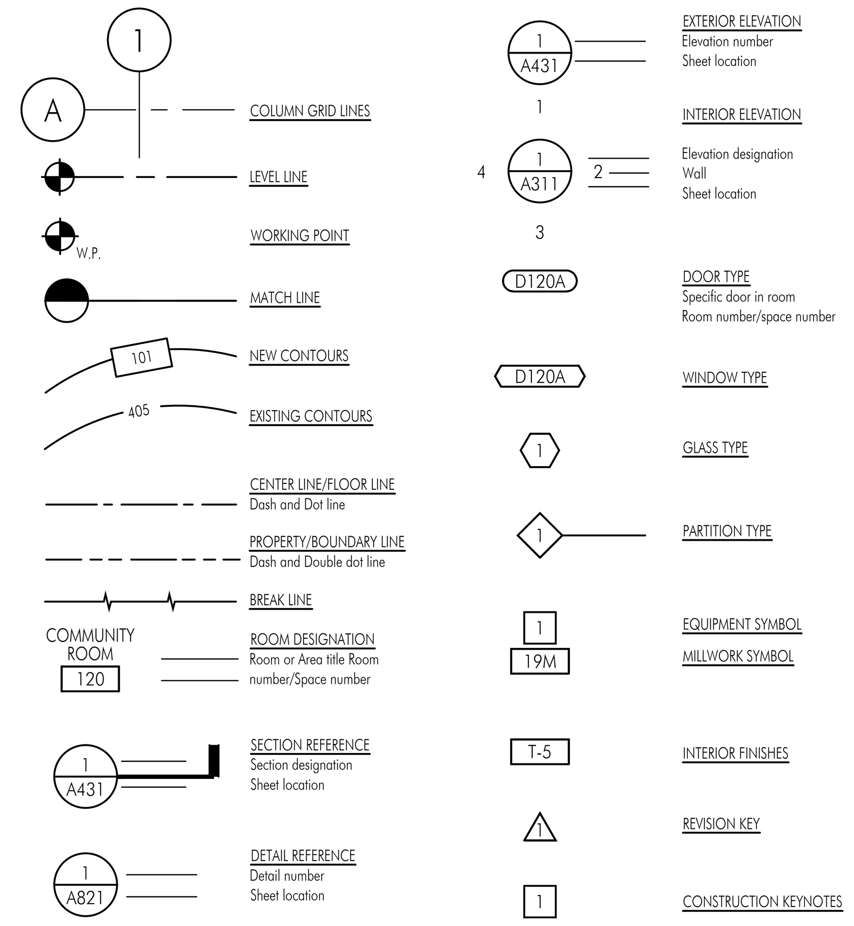
ABBREVIATIONS

&	AND
∠	ANGLE
@	AT
℞	PROPERTY LINE
℄	CENTERLINE
#	NUMBER
(E)	EXISTING
(N)	NEW
A.B.	ANCHOR BOLT
A.C.	ASPHALT CONCRETE
ACOUST.	ACOUSTICAL
A. D.	AREA DRAIN
ADJ. SH.	ADJUSTABLE SHELVING
AGG.	AGGREGATE
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURAL
BD.	BOARD
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
B.A.	BENCH MARK
BOTT.	BOTTOM
B.U.R.	BUILT UP ROOFING
C.B.	CATCH BASIN
CEM.	CEMENT
C.V.	CORNER GUARD
C.I.	CAST IRON
C.J.	CONSTRUCTION JOINT
C.L.	CHAIN LINK
CLKG.	CAULKING
CLR.	CLEAR
COL.	COLUMN
C.O.	CLEAN OUT
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
C.O.T.G.	CLEAN OUT TO GRADE
C.A.	CONTROL POINT
CSK.	COUNTERSUNK
C.T.	CERAMIC TILE
CTR.	CENTER
CW.	CURTAIN WALL
DBL.	DOUBLE
DEPT.	DEPARTMENT
DET.	DETAIL
D.F.	DRINKING FOUNTAIN
DIAM.	DIAMETER
DIM.	DIMENSION
DR.	DRAWER
DS.	DOWNSPOUT
D.S.P.	DRY STANDPIPE
DWGS.	DRAWINGS
EA.	EACH
E.J.	EXPANSION JOINT
ELECT.	ELECTRICAL
ELEV.	ELEVATION
EMER.	EMERGENCY
ENCL.	ENCLOSURE
E.P.	ELECTRICAL PANEL
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.	EACH WAY
E.W.C.	ELECTRIC WATER COOLER
EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F.A.	FIRE ALARM
F.B.	FLAT BAR
F.C.	FACE OF CONCRETE
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FACE
FIN.	FINISH
F.L.	FLOW LINE
FLR.	FLOOR
FLUOR.	FLUORESCENT
FND.	FOUNDATION

F. O. C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUD
F.O.M.	FACE OF MASONRY
F.O.W.	FACE OF WALL
F.P.	FIREPROOF
F.S.	FACE OF STUDS
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
FUT.	FUTURE
F.V.	FIELD VERIFY
G.	GAS
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.I.	GALVANIZED IRON
GLU-LAM.	GLUED LAMINATED
GND.	GROUND
GYP. BD.	GYPSUM WALL BOARD
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
HDBD.	HARDBOARD
HDWD.	HARDWOOD
HDWE.	HARDWARE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
I.D.	INSIDE DIAMETER
I.E.	INVERT ELEVATION
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
KIT.	KITCHEN
LAB.	LABORATORY
LAV.	LAVATORY
MAX.	MAXIMUM
MECH.	MECHANICAL
MEMB.	MEMBRANE
MFR.	MANUFACTURER
M.H.	MAN HOLE
MISC.	MISCELLANEOUS
MRGB.	MOISTURE RESISTANT GYPSUM BOARD
M.T.	METAL THRESHOLD
MTD.	MOUNTED
MTL.	METAL
M.T.P.	METAL TOILET PARTITION
MULL.	MULLION
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
OBSC.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMENTER
O.F..I.	OWNER-FURNISH CONTRACTOR-INSTALLED
OFF.	OFFICE
O.F..I.	OWNER-FURNISHED OWNER-INSTALLED
O.H.	OPPOSITE HAND
OPP.	OPPOSITE
PART.	PARTITION
P.B.	PANIC BOLT
PL.	PLATE
PLAM.	PLASTIC LAMINATE
PLYWD.	PLYWOOD
P.M.F.	PRESSED METAL FRAME
PROP.	PROPERTY
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
PT.	POINT
P.T.W.R.	PAPER TOWEL WASTE RECEPTACLE

R.	RISER
RAD.	RADIUS
R.D.	ROOF DRAIN
R.E.	RIM ELEVATION
R.	REINFORCING BAR
REF.	REFERENCE
REINF.	REINFORCED
REQD.	REQUIRED
RESIL.	RESILIENT
R.F.P.	REINFORCED FIBERGLASS PANEL
RM.	ROOM
R.O.	ROUGH OPENING
RWD.	REDWOOD
R.W.L.	RAIN WATER LEADER
S.B.	SPLASH BLOCK
S.C.	SOLID CORE
SCHED.	SCHEDULE
S.A.	STORM DRAIN
SEC.	SECURITY
SHT.	SHEET
SIM.	SIMILAR
S.M.	SHEET METAL
SPECS.	SPECIFICATIONS
SQ.	SQUARE
S/S	SERVICE SINK
S.S.	SANITARY SEWER
S. ST.	STAINLESS STEEL
STL.	STEEL
STD.	STANDARD
STOR.	STORAGE
STRUCT.	STRUCTURAL
S.T.S.M.S.	SELF-TAPPING SHEET METAL SCREW
SUSP.	SUSPENDED
S.V.F.	SHEET VINYL FLOORING
SYM.	SYMMETRICAL
T.	TREAD
T.C.	TOP OF CONCRETE OR CURB
TEL.	TELEPHONE
TEMP.	TEMPERED
T&G	TONGUE & GROOVE
THK.	THICK
T.O.F.	TOP OF FRAMING
T.O.S.	TOP OF STEEL
TOT.	TOTAL
T.P.	TOP OF PAVEMENT
TS	STRUCTURAL TUBE
T.S.	TRANSITION STRIP
T.V.	TELEVISION
T.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U.O.N.	UNLESS OTHERWISE NOTED
UR.	URINAL
U.S.	URINAL SCREEN
U.C.	UNDER COUNTER / CABINET
V.C.F.	VINYL COATED FABRIC
VERT.	VERTICAL
VEST.	VESTIBULE
W.	WATER
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W.H.	WATER HEATER
WNSCT.	WAINSCOT
W/O	WITHOUT
W.P.	WORKING PONT
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC

SYMBOL LEGEND



APPLICABLE CODES & REGULATIONS

APPLICABLE CODES AS OF JANUARY 1, 2017:

2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2016 CALIFORNIA ADMINISTRATIVE CODE, PART 1 OF TITLE 24

2016 CALIFORNIA BUILDING CODE, PART 2 OF TITLE 24
(BASED ON THE 2015 INTERNATIONAL BUILDING CODE (IBC), VOL. 1 & 2, AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE, PART 3 OF TITLE 24
(BASED ON THE 2014 NATIONAL ELECTRICAL CODE (NEG) AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE, PART 4 OF TITLE 24
(BASED ON THE 2015 UNIFORM MECHANICAL CODE (UMC) AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE, PART 5 OF TITLE 24
(BASED ON THE 2015 UNIFORM PLUMBING CODE (UPC) AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE, PART 6 OF TITLE 24

2016 CALIFORNIA FIRE CODE, PART 9 OF TITLE 24
(BASED ON THE 2015 INTERNATIONAL FIRE CODE (IFC) AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA EXISTING BUILDING CODE, PART 10 OF TITLE 24
(BASED ON THE 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC) AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11 OF TITLE 24

2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12 OF TITLE 24

PARTIAL LIST OF APPLICABLE STANDARDS:

2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	EDITION 2016
NFPA 14	STANDPIPES SYSTEM (CALIFORNIA AMENDED)	EDITION 2013
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	EDITION 2013
NFPA 17A	WET CHEMICAL SYSTEMS	EDITION 2013
NFPA 20	STATIONARY PUMPS	EDITION 2016
NFPA 24	PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED)	EDITION 2016
NFPA 72	NATIONAL FIRE ALARM CODES, (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")	EDITION 2016
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	EDITION 2016
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	EDITION 2015
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	EDITION 2015

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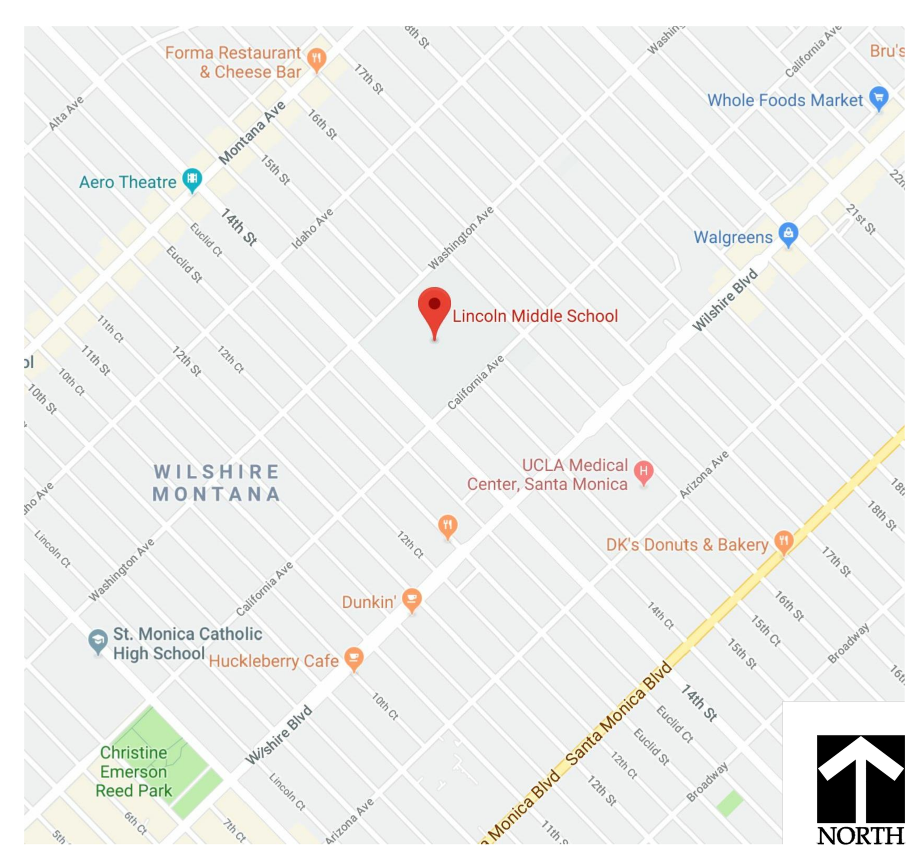

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176.	EF321	FIRE ALARM BUILDING "F" FLOOR PLAN	☐
177.	EG321	FIRE ALARM BUILDING "G" FLOOR PLAN	☐
178.	EH321	FIRE ALARM BUILDING "H" FLOOR PLAN	☐
179.	EJ321	FIRE ALARM BUILDING "J" FLOOR PLAN	☐
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TOTAL = 189 SHEETS

SCOPE OF WORK

THE SCOPE OF WORK FOR LINCOLN MIDDLE SCHOOL IS AS FOLLOWS:

BUILDING A
NEW BUILDING SYSTEMS INCLUDING ELECTRICAL AND MECHANICAL SYSTEMS AS WELL AS NEW FIRE ALARM SYSTEM.

BUIDLING B
NEW BUILDING SYSTEMS INCLUDING ELECTRICAL AND MECHANICAL SYSTEMS AS WELL AS NEW FIRE ALARM SYSTEM.

BUILDING C
NEW BUILDING SYSTEMS INCLUDING ELECTRICAL AND MECHANICAL SYSTEMS AS WELL AS NEW FIRE ALARM SYSTEM.

BUILDING CDC (CHILD DEVELOPMENT CENTER
NEW BUILDING SYSTEMS INCLUDING ELECTRICAL AND MECHANICAL SYSTEMS AS WELL AS NEW FIRE ALARM SYSTEM.

BUILDING D
NEW BUILDING SYSTEMS INCLUDING ELECTRICAL AND MECHANICAL SYSTEMS AS WELL AS NEW FIRE ALARM SYSTEM.

BUILDING E
NEW BUILDING SYSTEMS INCLUDING ELECTRICAL AND MECHANICAL SYSTEMS AS WELL AS NEW FIRE ALARM SYSTEM.

BUILDING F
NEW FIRE ALARM SYSTEM.

BUILDING G
NEW BUILDING SYSTEMS INCLUDING ELECTRICAL AND MECHANICAL SYSTEMS AS WELL AS NEW FIRE ALARM SYSTEM.

BUILDING H
NEW BUILDING SYSTEMS INCLUDING ELECTRICAL AND MECHANICAL SYSTEMS AS WELL AS NEW FIRE ALARM SYSTEM.

BUILDING J
NEW FIRE ALARM SYSTEM.

BUILDING K
NEW BUILDING SYSTEMS INCLUDING ELECTRICAL AND MECHANICAL SYSTEMS AS WELL AS NEW FIRE ALARM SYSTEM.

TOTAL = 113 SHEETS

APPL. No. A 00-123456

DSA Stamp

Architect

RACHLIN PARTNERS
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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

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Consultants

Sheet Title

General Information /Sheet Index

Sheet Number

G101

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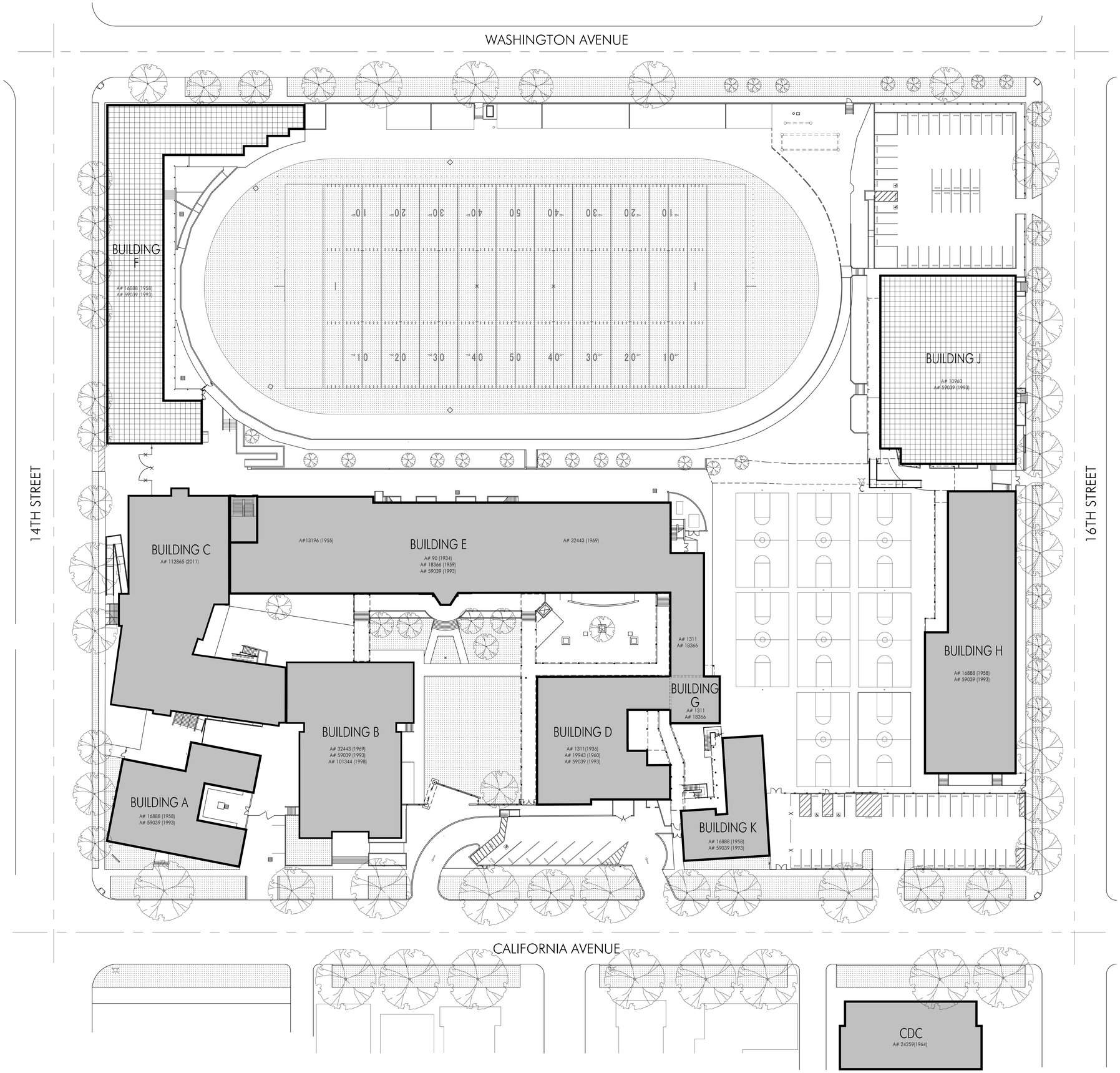

1 CODE ANALYSIS PLAN

SCALE: 1" = 30'-0"

0' 15' 30' 60' 120'

NORTH

CODE ANALYSIS

Building	Name	Occupancy	Construction Type	Sprinklered	DSA Application # (Original, Most Recent)
A					16888, 59039
B					32443, 101344
C					112865
D	Cafeteria	A-3	VA	NO	1311, 59039
E					90, 59039
F					16888, 59039
G	Classroom	E	VA	NO	1311, 18366
H					1688, 59039
K	Classroom	E	VA	NO	1688, 59039
CHILD DEVELOPMENT CENTER (CDC)					24259

NOTE: THIS IS ONLY A REFERENCE TO THE EXITING CONDITION, VERIFIED BY THE ARCHITECT. THIS IS NOT A JUSTIFICATION OF IT PRE CBC 2016. IT IS NOT REVIEWED FOR IT.

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LICENSED ARCHITECT
RICHARD M. INGBRETSEN
NO. C-28029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

Code Analysis
Site Plan

Sheet Number

G201

Plot Date: 11/27/2019 12:13:53 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture_SMMUSD-LMS-G201.dwg

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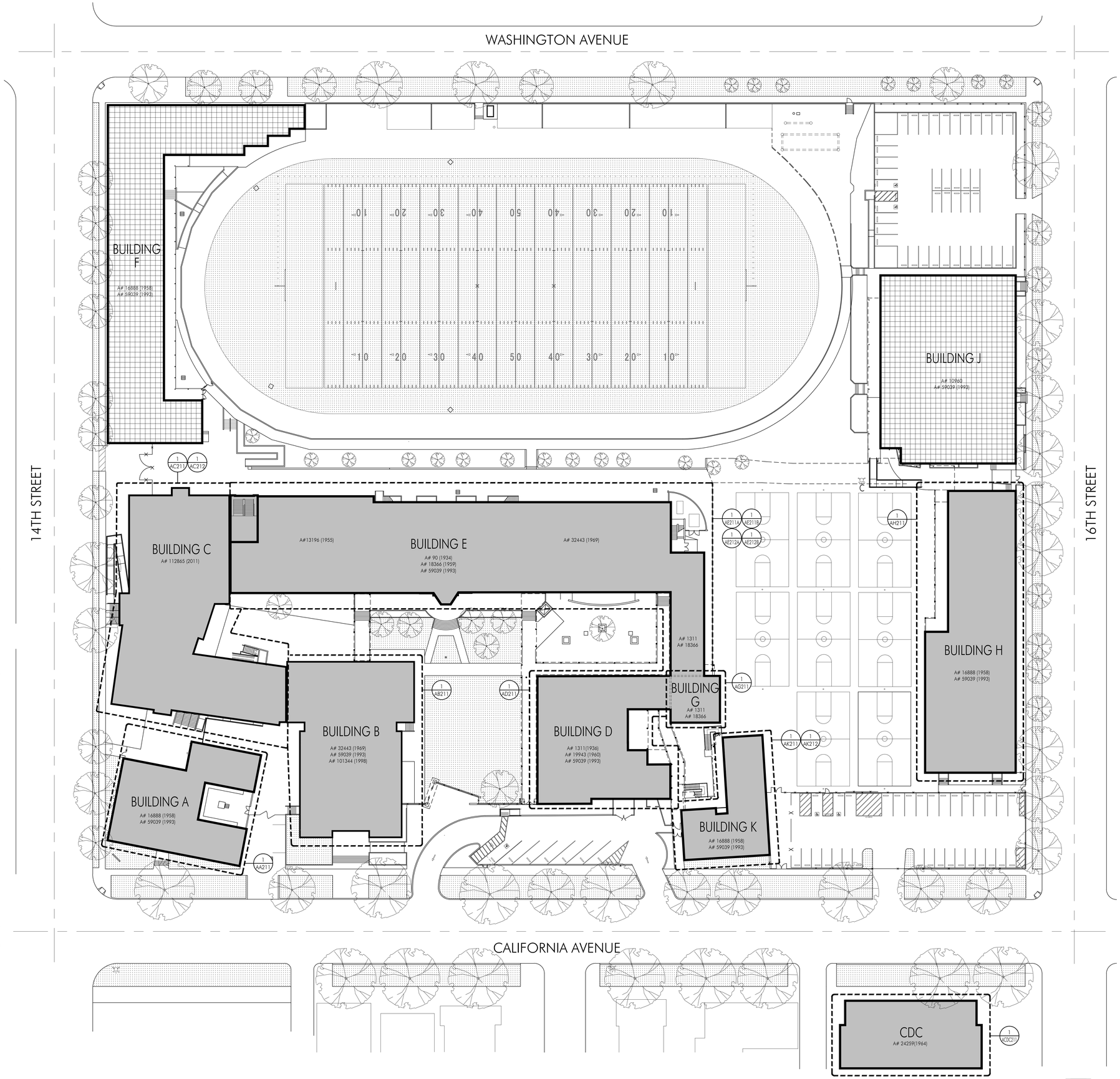

1 OVERALL SITE PLAN

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LICENSED ARCHITECT
RICHARD M. INGBRETSEN
NO. C-26029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

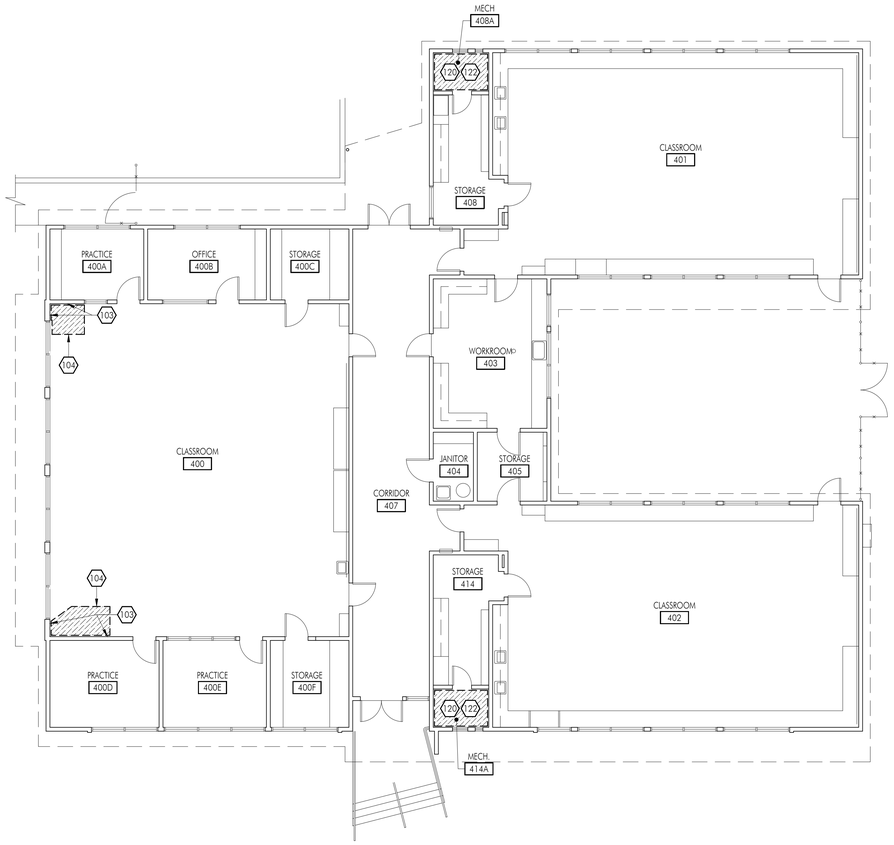
Sheet Title

Overall Site Plan

Sheet Number

A111

Plot Date: 11/27/2019 12:13:57 PM Last Save By: dhamilton Login: Rudy Manica G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-A111.dwg



1 DEMOLITION FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

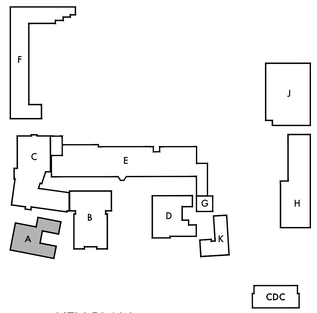
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

DEMOLITION KEYNOTES

NO.	DESCRIPTION
103	REMOVE EXISTING INTERIOR WALL FINISHES (INCLUDING BUT NOT LIMITED TO [SINGULARLY OR IN ANY COMBINATION] PLASTER, GYPSUM BOARD, ACOUSTIC TILE, TACKABLE SURFACE ETC.) DOWN TO STUDS (OR STRUCTURE AS OCCURS) IN PREPARATION FOR INSTALLATION OF NEW WALL AND FINISHES. PROTECT ADJACENT UNAFFECTED FINISHES, PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
104	REMOVE PORTION OF EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL CLOSET FRAMING AND EQUIPMENT. PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
120	REMOVE EXISTING MECHANICAL EQUIPMENT AND APPURTENANCES. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
122	PROTECT EXISTING DUCT IN PLACE TO BE REUSED. SEE MECHANICAL FOR ADDITIONAL INFORMATION.

DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	(E) DOOR TO REMAIN. SAND, CLEAN AND PATCH DOOR IN PREPARATION FOR NEW FINISHES.
	REMOVE EXISTING DOOR AND APPURTENANCES. PROTECT EXISTING FRAME IN PLACE U.N.O. CLEAN AND PATCH FRAME IN PREPARATION FOR NEW FINISHES AND DOOR HARDWARE.



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

RACHLIN
PARTNERS
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Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

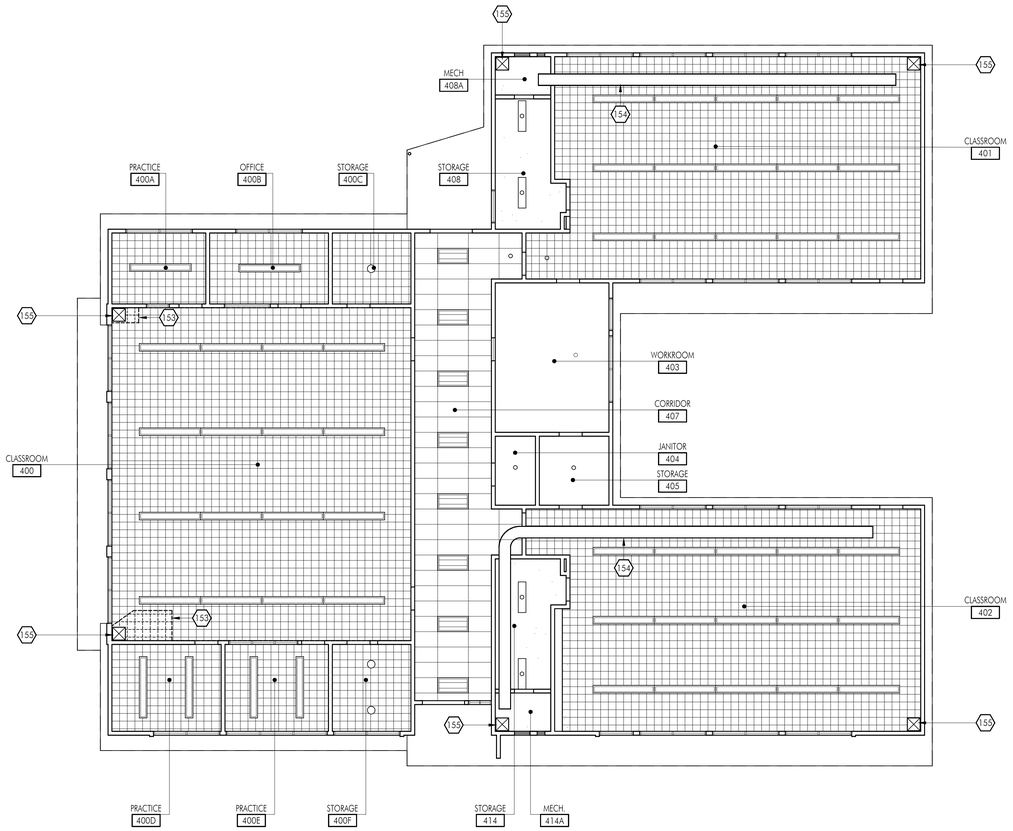
LICENSED ARCHITECT
RICHARD M. INGBRETSEN
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Building 'A'
Demolition Floor Plan

Sheet Number
AA201

Plot Date: 11/27/2019 12:14:01 PM Last Save By: dhamilton Login: Rudy Manico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AA201.dwg



1 DEMOLITION REFLECTED CEILING PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

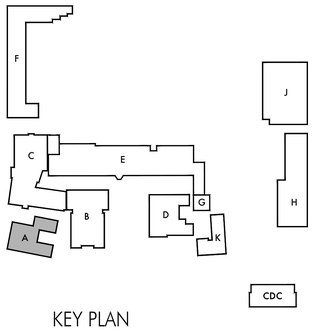
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

DEMOLITION KEYNOTES

NO.	DESCRIPTION
15S	REMOVE PORTION OF (E) CEILING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL CLOSET, MECHANICAL EQUIPMENT AND ALL ASSOCIATED DUCTWORK AND APPURTENANCES. PATCH REPAIR AND PAINT AT ALL REMOVALS TO MATCH EXISTING ADJACENT FINISHES AND IN PREPARATION FOR NEW WORK.
15A	EXISTING MECHANICAL DUCT TO REMAIN, PROTECT IN PLACE TO BE REUSED AND CONNECT TO NEW EQUIPMENT. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
15S	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.

DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	REMOVE EXISTING LIGHT AND APPURTENANCES. SEE ELECTRICAL FOR MORE INFORMATION
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

RACHLIN PARTNERS
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Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

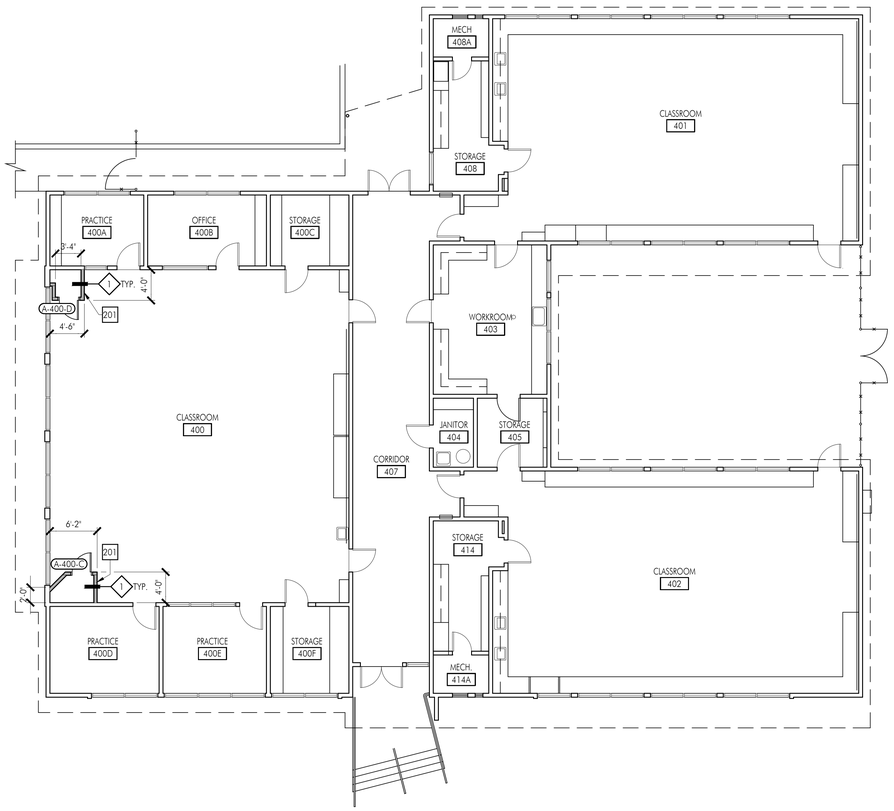
LICENSED ARCHITECT
RICHARD M. INGINSKY
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Building 'A'
Demolition Reflected
Ceiling Plan

Sheet Number
AA202

Plot Date: 11/27/2019 12:14:06 PM Last Save By: dhamilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AA202.dwg



1 FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

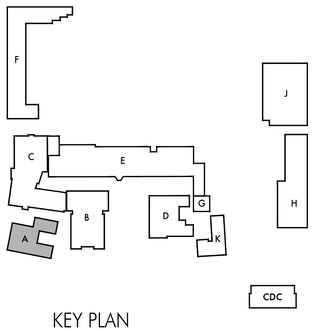
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
201	MECHANICAL CLOSET SEE WALL TYPE AS REFERENCED AND PLAN FOR DIMENSIONS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
220	MECHANICAL CONDENSER UNIT ON CONCRETE PAD. PROVIDE CONCRETE PAD AS REQUIRED FOR NUMBER OF CONDENSER UNITS AT EACH LOCATION. SEE MECHANICAL AND DETAIL X/A811 FOR ADDITIONAL INFORMATION.

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
A-100-A	NEW DOOR AND FRAME. SEE DOOR SCHEDULE ON A611 FOR MORE INFORMATION
1	WALL TYPE. SEE A711 FOR MORE INFORMATION.



KEY PLAN

NORTH

APPL. No. A 00-123456

DSA Stamp

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
CHARLES M. THOMPSON
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

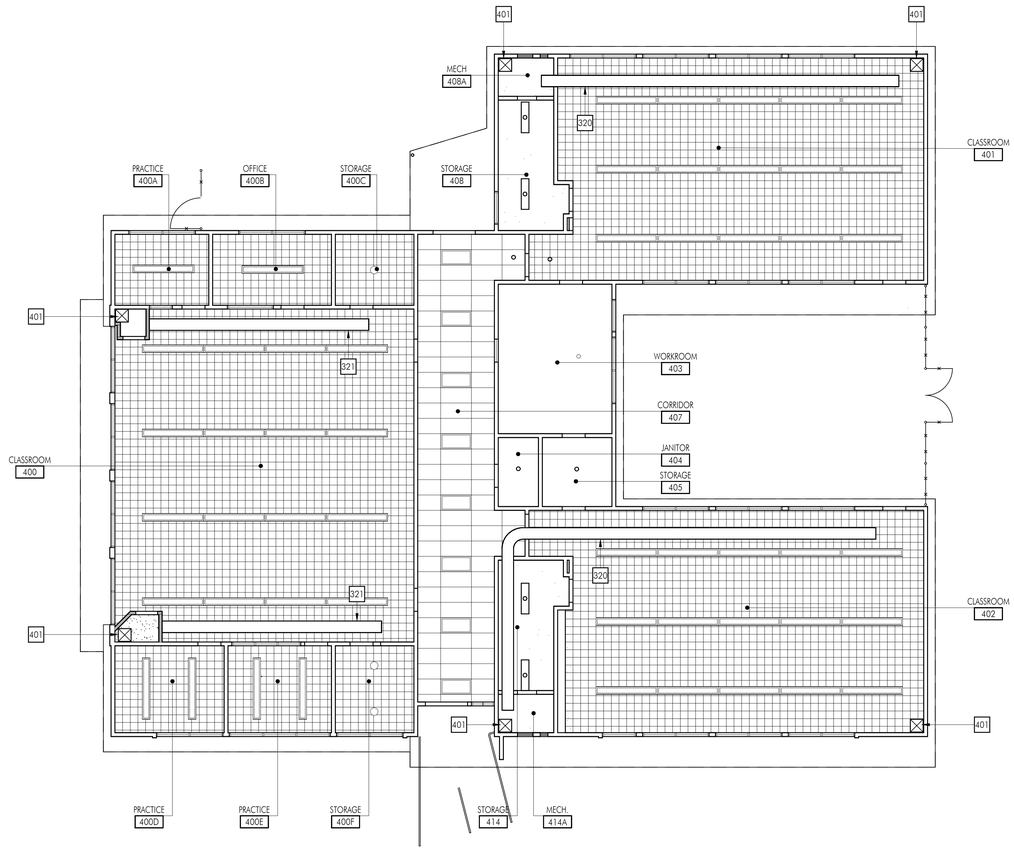
Sheet Title

Building 'A' Floor Plan

Sheet Number

AA211

Plot Date: 11/27/2019 12:14:10 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AA211.dwg



1 REFLECTED CEILING PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

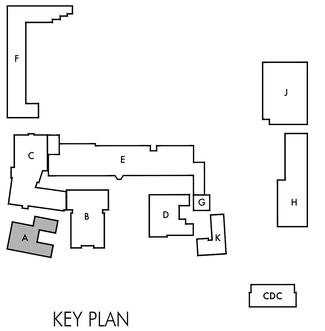
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
320	EXISTING MECHANICAL DUCT TO REMAIN, PROTECT IN PLACE TO BE REUSED AND CONNECT TO NEW EQUIPMENT. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
321	EXPOSED DUCT. SEE MECHANICAL FOR MORE INFORMATION.
401	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION
	RELOCATED LIGHT FIXTURE. SEE ELECTRICAL FOR MORE INFORMATION.
	FRAMED GYPSUM BOARD CEILING SEE X/XXX FOR ADDITIONAL INFORMATION AND REFERENCED DETAIL ON PLAN FOR SOFFIT CONDITIONS AS OCCURS. PAINT P-1
	AIR SUPPLY REGISTER
	RETURN AIR GRILLE
	EXHAUST GRILLE



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. RISHWAIN
NO. C-28229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

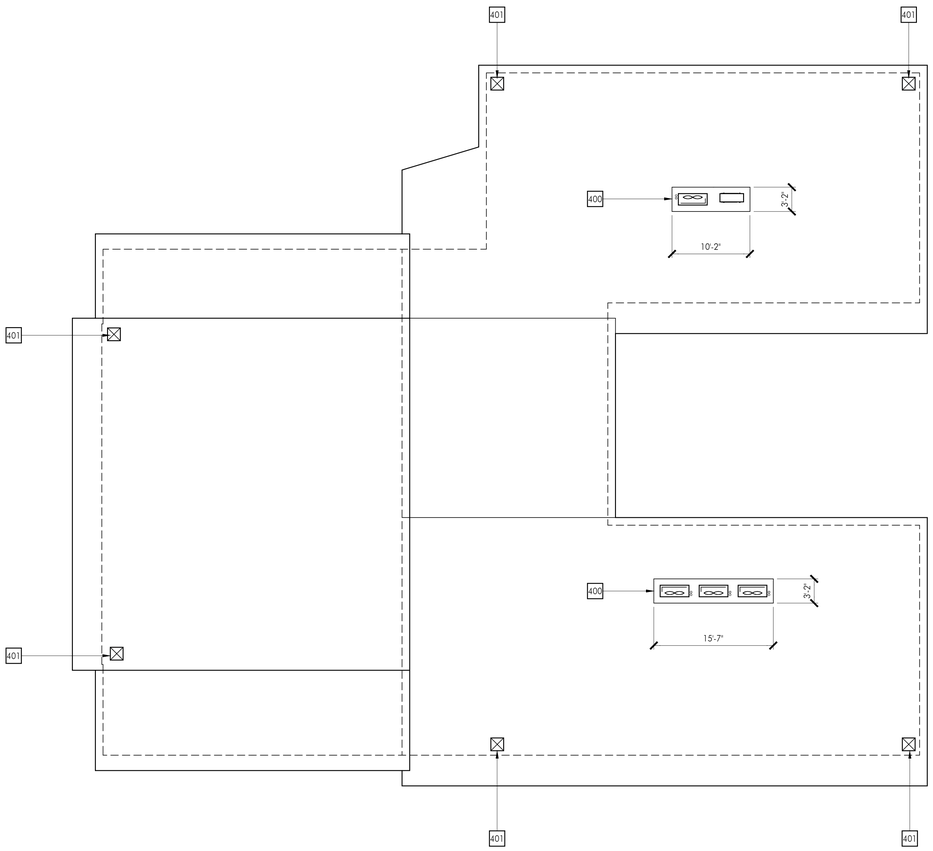
Sheet Title

Building 'A' Reflected Ceiling Plan

Sheet Number

AA231

Plot Date: 11/27/2019 12:14:14 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AA231.dwg



1 ROOF PLAN

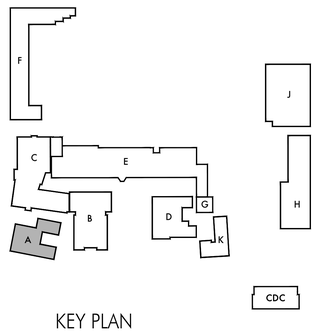
SCALE: 1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
400	ROOF MOUNTED MECHANICAL CONDENSER UNIT ON WOOD PAD. SEE PLAN FOR ROUGH DIMENSIONS, ADJUST PAD SIZE FOR NUMBER OF CONDENSERS AND REQUIRED CLEARANCES. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
401	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.



KEY PLAN

APPL. No. A 00-123456

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Date: 11.27.2019
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Architect / Engineer Stamp

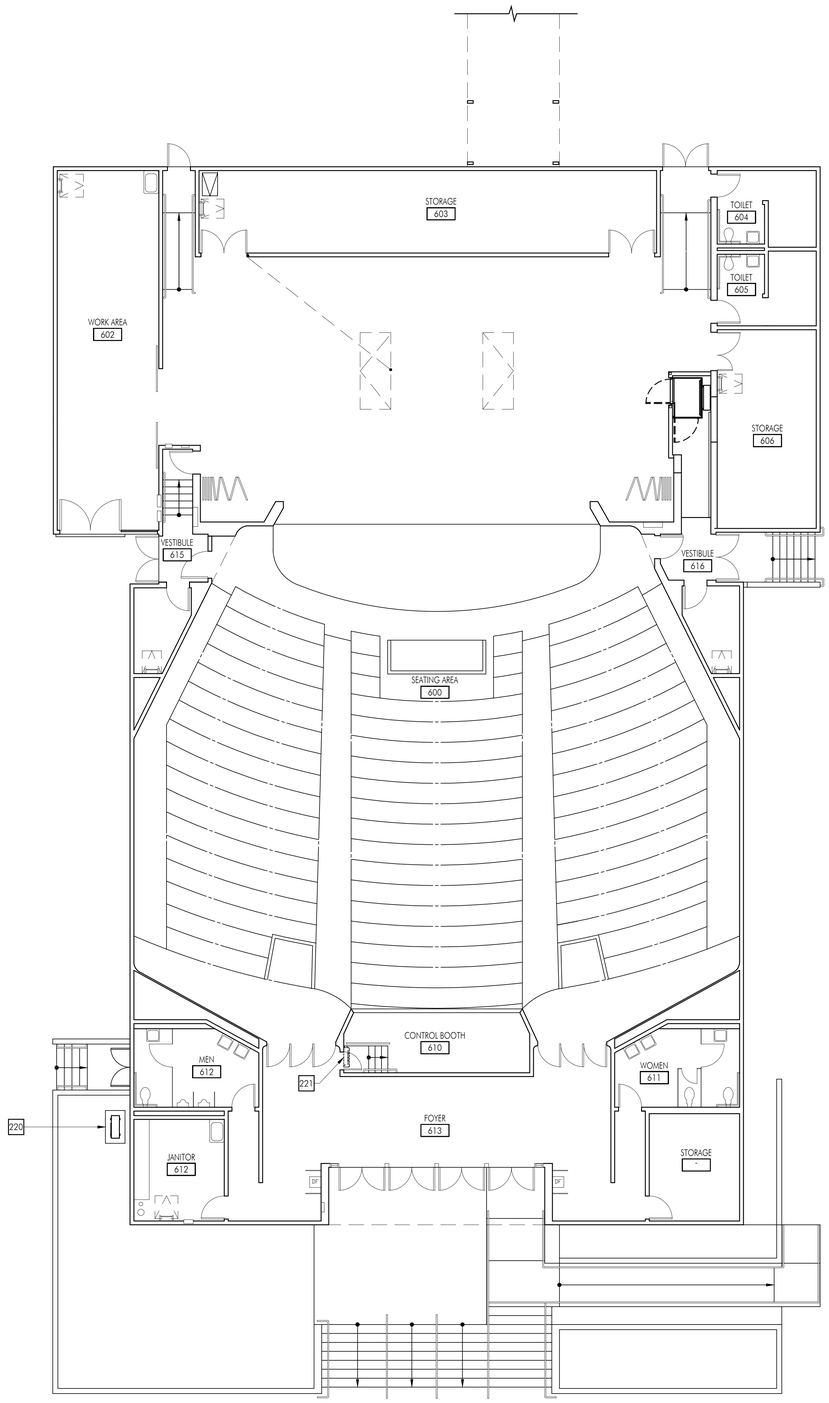
LICENSED ARCHITECT
RICHARD M. HUDNUT
NO. C-26029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Building 'A' Roof Plan

Sheet Number
AA241

Plot Date: 11/27/2019 12:14:18 PM Last Save By: dhamilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AA241.dwg



1 FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

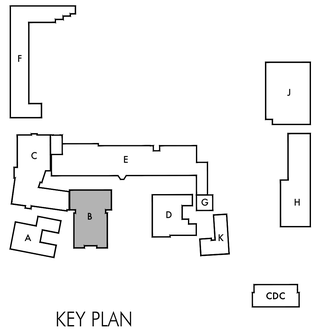
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
220	MECHANICAL CONDENSER UNIT ON CONCRETE PAD. PROVIDE CONCRETE PAD AS REQUIRED FOR NUMBER OF CONDENSER UNITS AT EACH LOCATION. SEE MECHANICAL AND DETAIL X/A811 FOR ADDITIONAL INFORMATION.
221	MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION
222	MECHANICAL REGISTER AT +10'-6' ABOVE FINISH FLOOR. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION. (REVIEW LOCATION IN THE FIELD WITH ARCHITECT PRIOR TO COMPLETING WORK)

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
A-100-A	NEW DOOR AND FRAME. SEE DOOR SCHEDULE ON A611 FOR MORE INFORMATION
1	WALL TYPE. SEE A711 FOR MORE INFORMATION.



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

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Culver City, CA 90232
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Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. INGRASSIA
NO. C-28029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

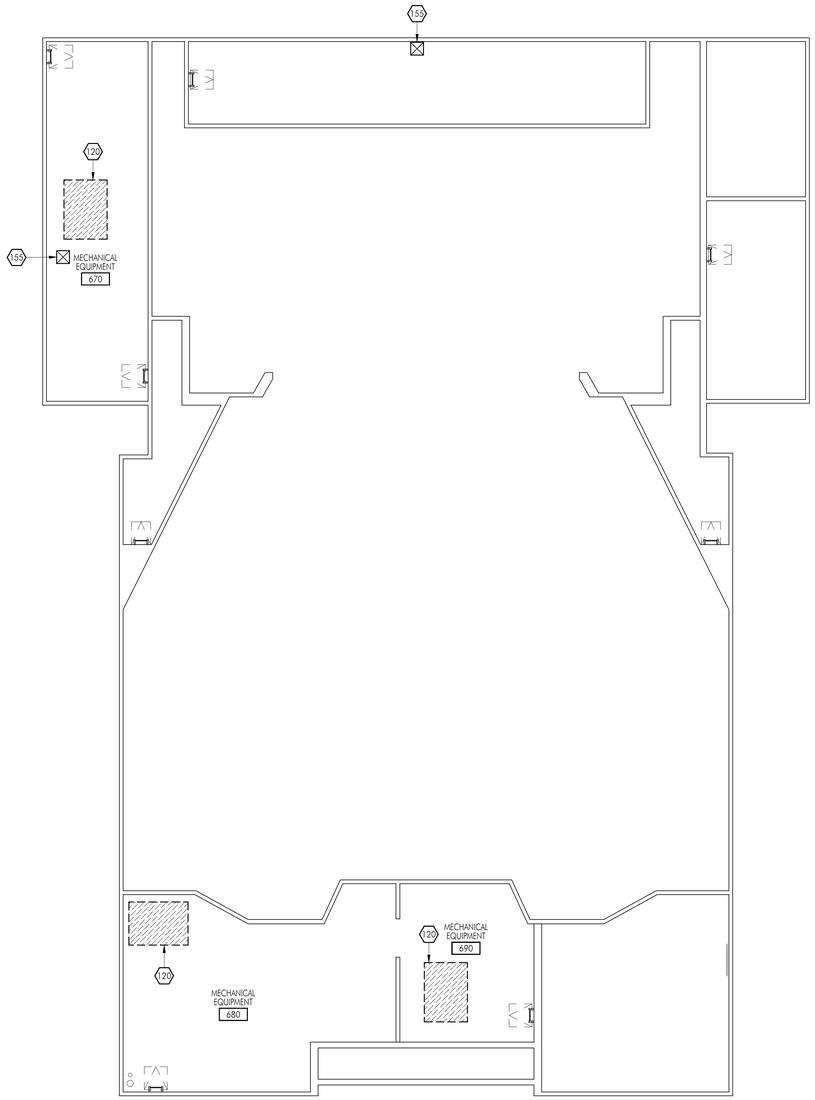
Sheet Title

Building 'B' Floor Plan

Sheet Number

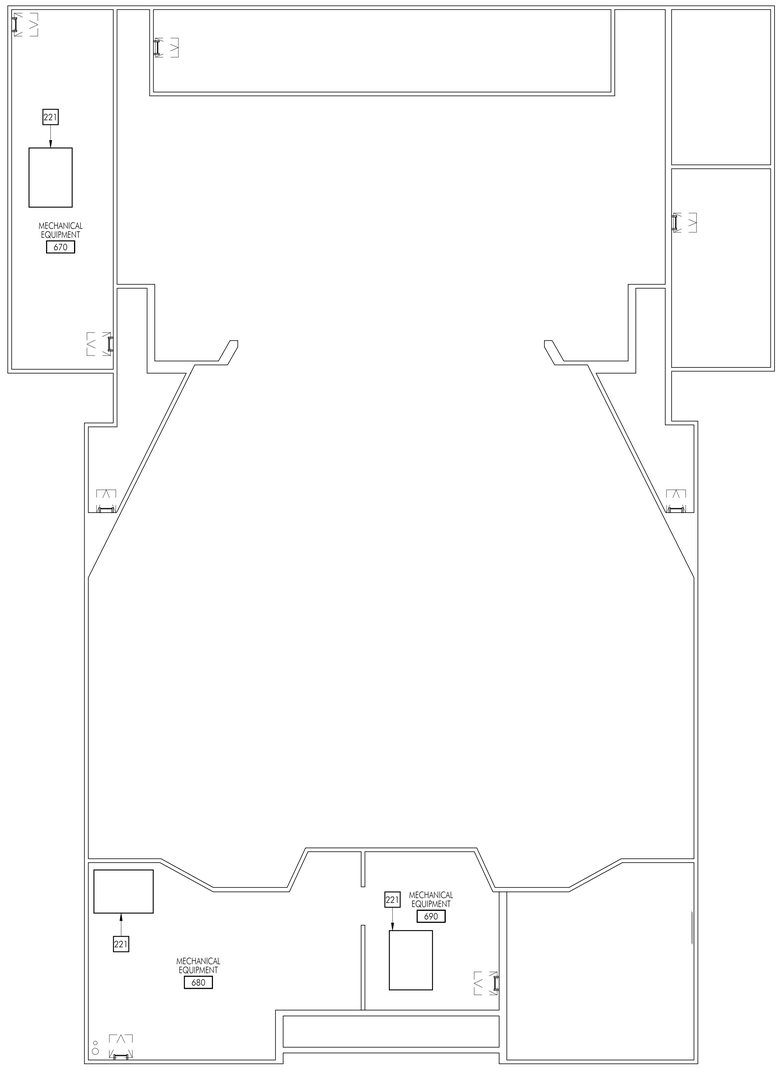
AB211

Plot Date: 11/27/2019 12:14:22 PM Last Save By: dhamilton Login: Rudy Manico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AB211.dwg



2 MEZZANINE LEVEL DEMOLITION FLOOR PLAN

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



1 MEZZANINE LEVEL FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

DEMOLITION KEYNOTES

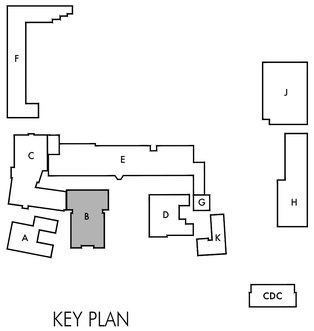
NO.	DESCRIPTION
120	REMOVE EXISTING MECHANICAL EQUIPMENT AND APPURTENANCES. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
155	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.

KEYNOTES

NO.	DESCRIPTION
221	MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
A-100-A	NEW DOOR AND FRAME. SEE DOOR SCHEDULE ON A611 FOR MORE INFORMATION
1	WALL TYPE. SEE A711 FOR MORE INFORMATION.



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

RACHLIN
PARTNERS
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Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. HIGHSMITH
NO. C-26029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

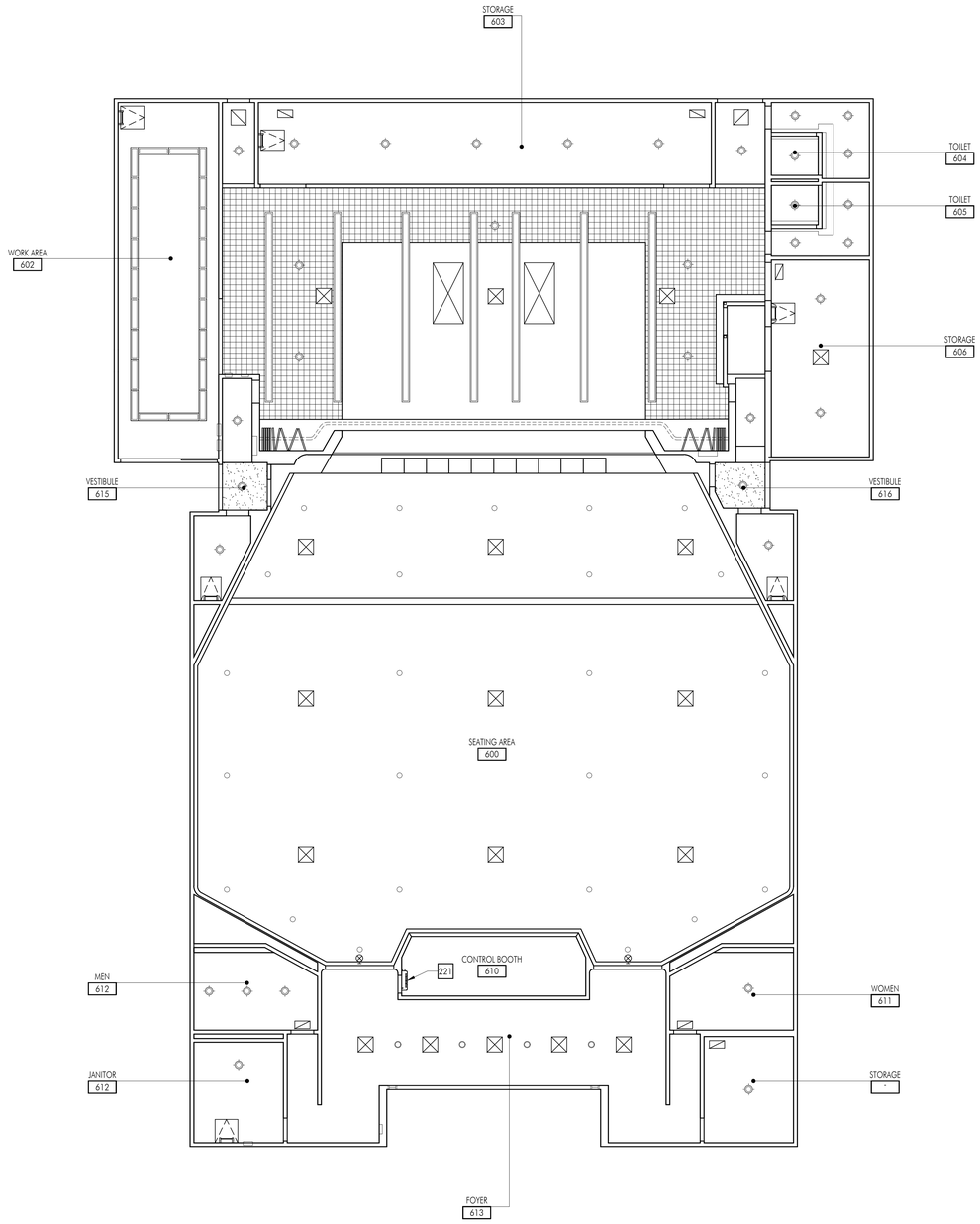
Sheet Title

Building 'B' Mezzanine Floor Plan and Demolition Floor Plan

Sheet Number

AB212

Plot Date: 11/27/2019 12:14:26 PM Last Save By: dhamilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AB212.dwg



1 REFLECTED CEILING PLAN

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

NORTH

FLOOR PLAN GENERAL NOTES

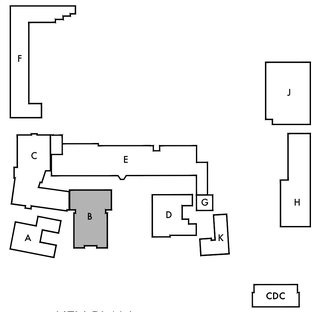
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
221	MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION
	RELOCATED LIGHT FIXTURE. SEE ELECTRICAL FOR MORE INFORMATION.
	FRAMED GYPSUM BOARD CEILING SEE X/XXX FOR ADDITIONAL INFORMATION AND REFERENCED DETAIL ON PLAN FOR SOFFIT CONDITIONS AS OCCURS. PAINT P-1
	AIR SUPPLY REGISTER
	RETURN AIR GRILLE
	EXHAUST GRILLE



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

RACHLIN
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Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. THOMPSON
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

Building 'B' Reflected Ceiling Plan

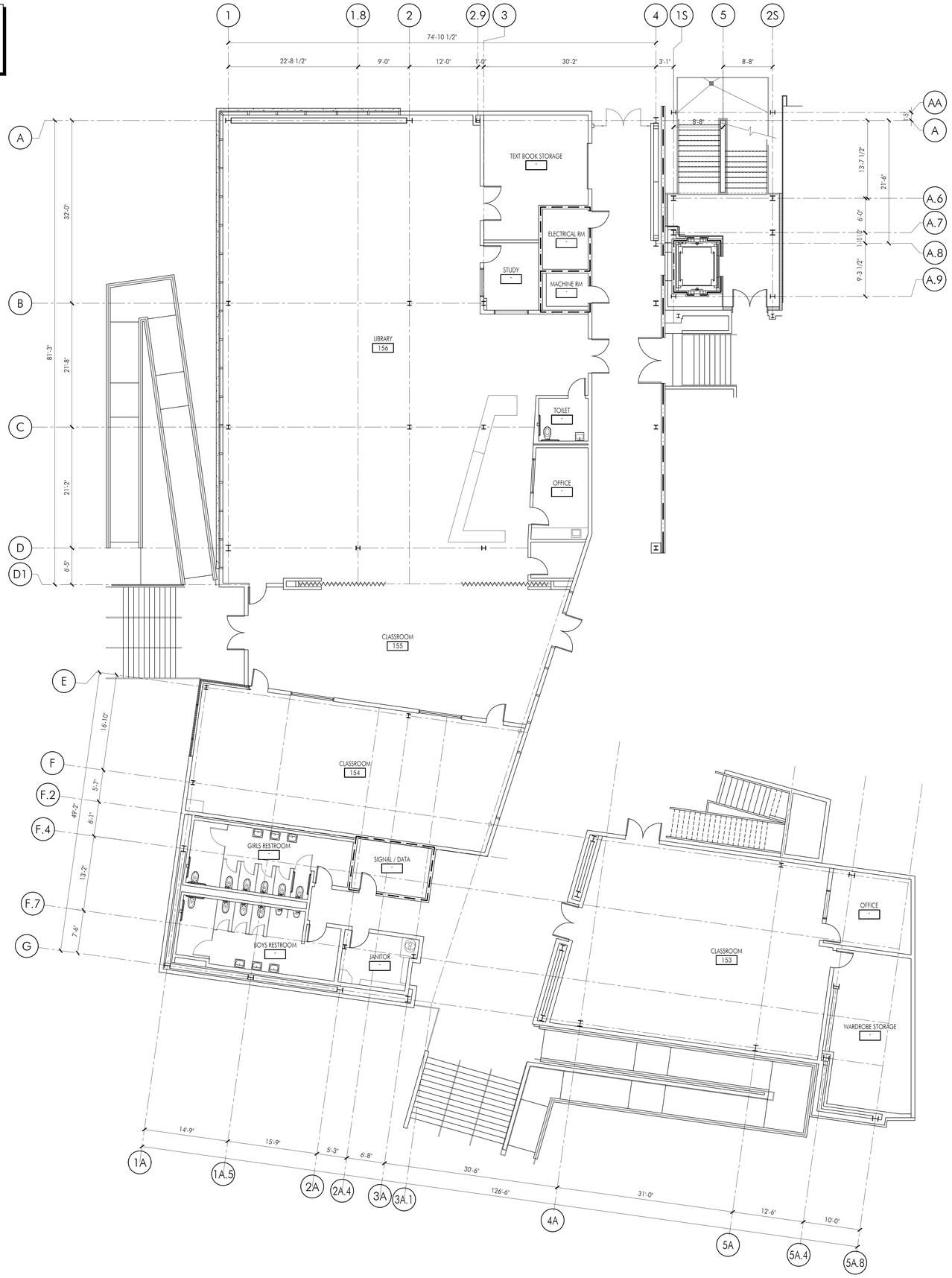
Sheet Number

AB231

Plot Date: 11/27/2019 12:14:31 PM Last Save By: dhamilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AB231.dwg

NOTE:

FIRE ALARM WORK ONLY ON LEVEL-1 OF BUILDING C. SEE ELECTRICAL AND FIRE ALARM DRAWINGS FOR MORE INFORMATION



1 FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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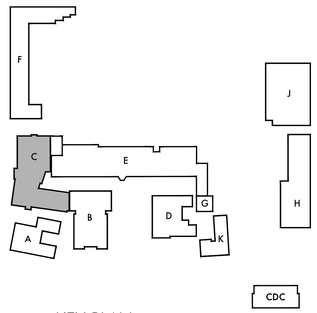

KEY PLAN

APPL. No. A 00-123456

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Architect

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. RISHIKOFF
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

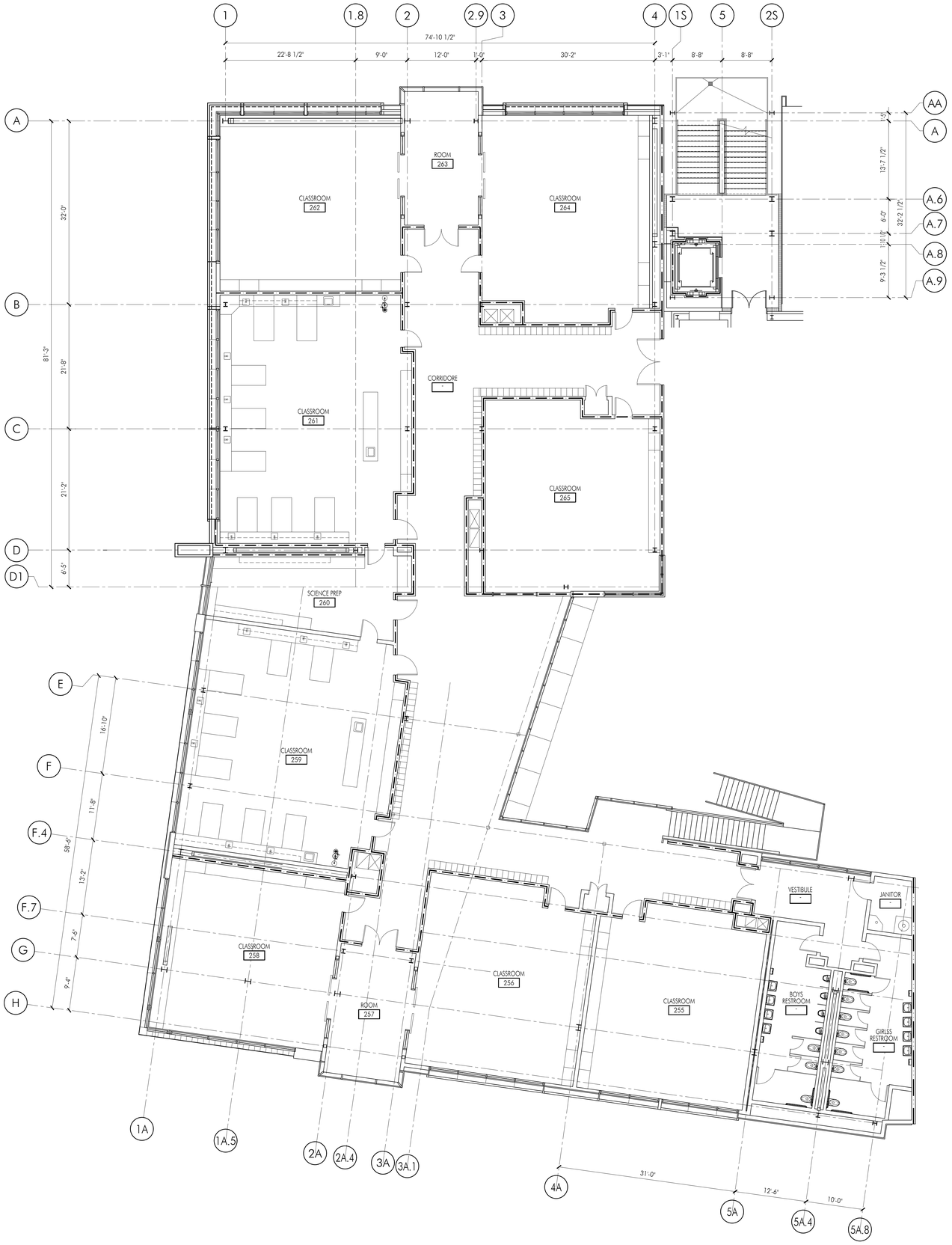
Sheet Title

Building 'C1' First Floor Plan

Sheet Number

AC211

Plot Date: 11/27/2019 12:14:35 PM Last Save By: dthomilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AC211.dwg



1 FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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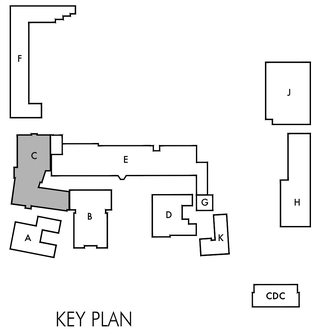
KEYNOTES

NO.	DESCRIPTION
201	MECHANICAL CLOSET SEE WALL TYPE AS REFERENCED AND PLAN FOR DIMENSIONS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
220	MECHANICAL CONDENSER UNIT ON CONCRETE PAD. PROVIDE CONCRETE PAD AS REQUIRED FOR NUMBER OF CONDENSER UNITS AT EACH LOCATION. SEE MECHANICAL AND DETAIL 1/A811 FOR ADDITIONAL INFORMATION.
221	MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION
222	MECHANICAL REGISTER AT +10'-6" ABOVE FINISH FLOOR. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION. (REVIEW LOCATION IN THE FIELD WITH ARCHITECT PRIOR TO COMPLETING WORK)

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
A-100-A	NEW DOOR AND FRAME. SEE DOOR SCHEDULE ON A611 FOR MORE INFORMATION
1	WALL TYPE. SEE A711 FOR MORE INFORMATION.



KEY PLAN

APPL. No. A 00-123456

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Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
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Date: 11.27.2019
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Checked By: RI

Architect / Engineer Stamp

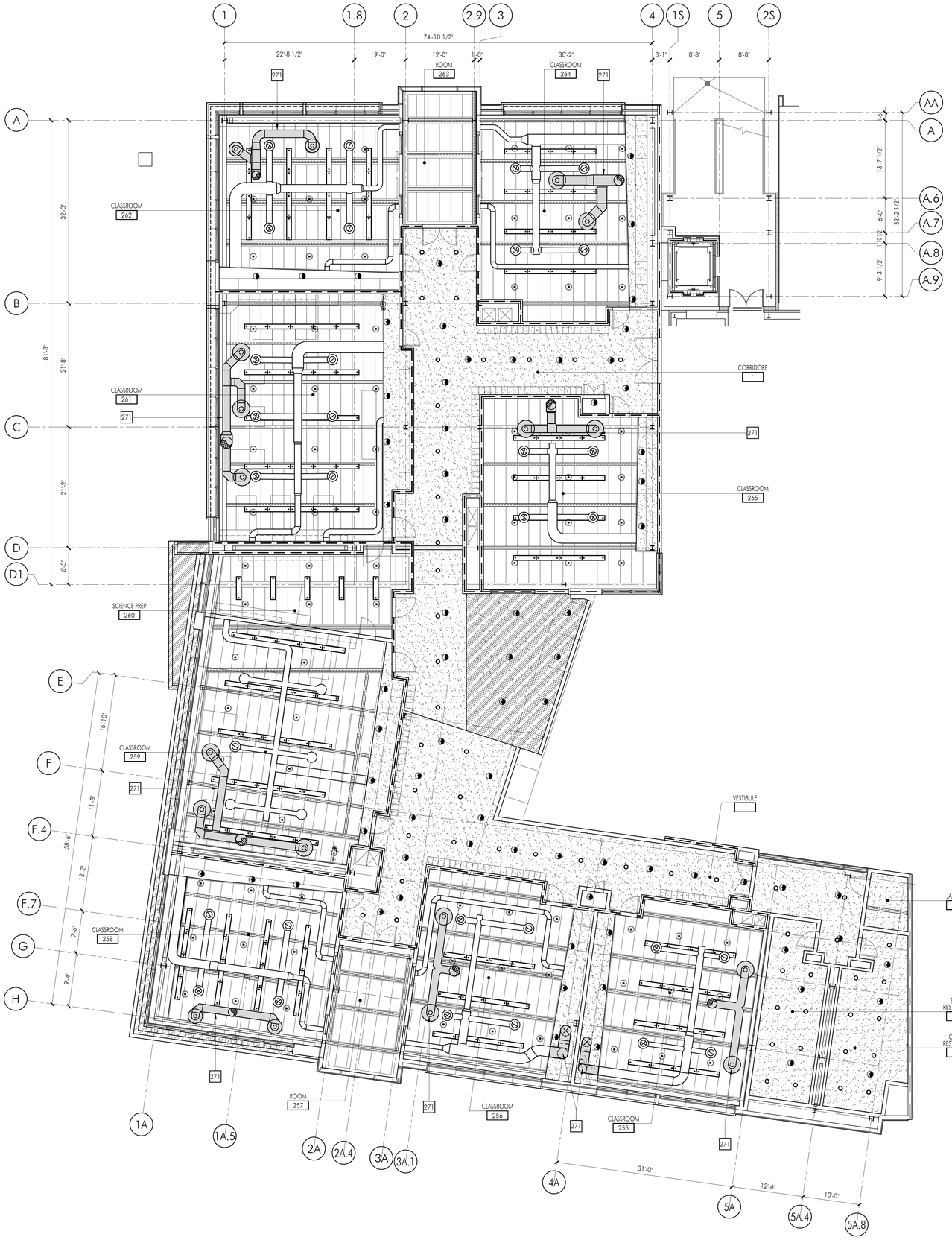
LICENSED ARCHITECT
GEORGE M. THOMPSON
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Building 'C1' Second Floor Plan

Sheet Number
AC212

Plot Date: 11/27/2019 12:14:40 P.M. Last Save By: dhamilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD.LMS-AC212.dwg



1 REFLECTED CEILING PLAN

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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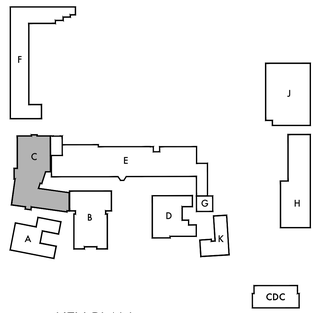
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
321	EXPOSED DUCT. SEE MECHANICAL FOR MORE INFORMATION.



KEY PLAN

APPL. No. A 00-123456

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Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. INGRASSIA
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

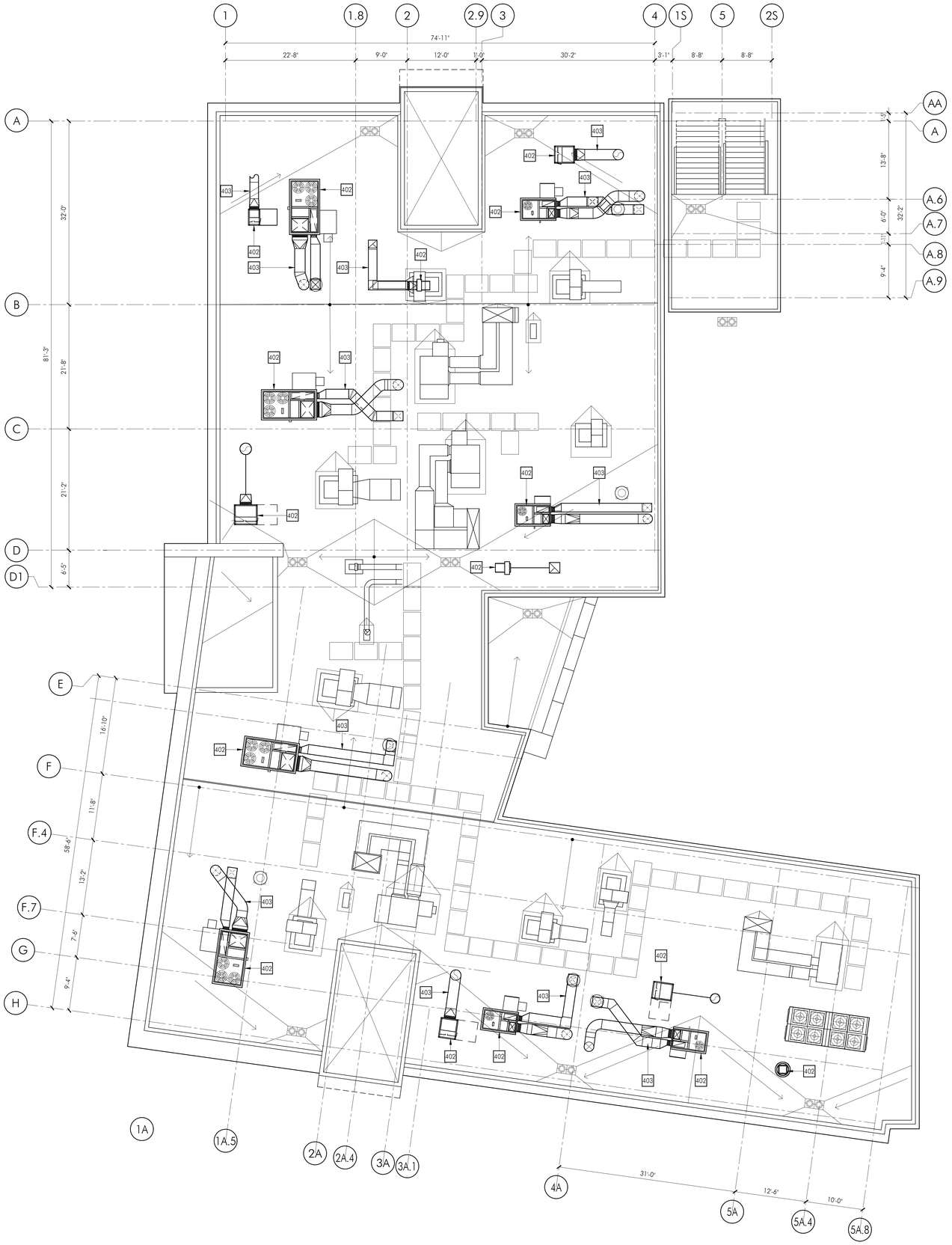
Sheet Title

Building 'C1' Second Floor Reflected Ceiling Plan

Sheet Number

AC232

Plot Date: 11/27/2019 12:14:45 PM Last Save By: jdhamilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AC232.dwg



1 ROOF PLAN

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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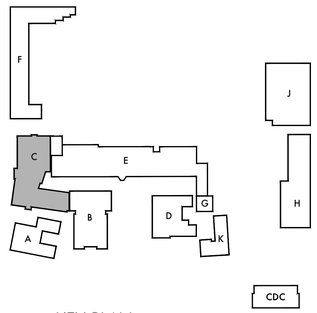
KEYNOTES

NO.	DESCRIPTION
402	ROOF MOUNTED MECHANICAL UNIT. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
403	ROOF MOUNTED MECHANICAL DUCT. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

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Lincoln Middle School
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Santa Monica, California 90403

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Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. INGBRETSEN
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

Building 'C1' Roof Plan

Sheet Number

AC241

Plot Date: 11/27/2019 12:14:49 PM Login: Rudy Manico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AC241.dwg Last Save By: dhamilton

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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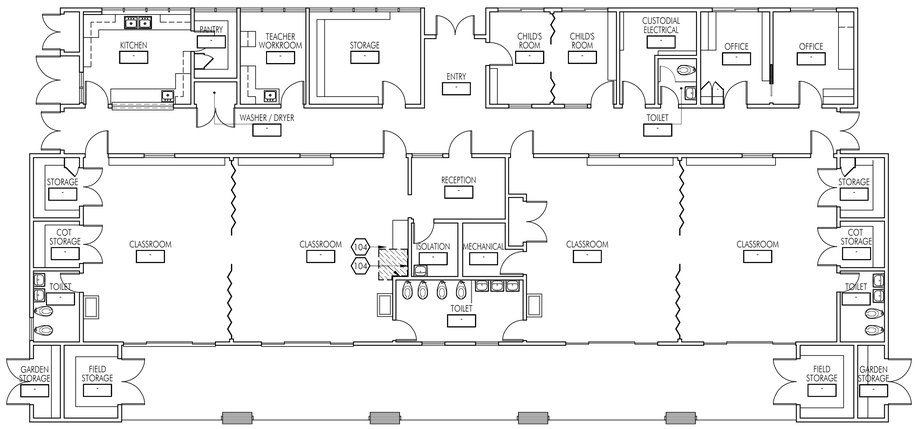
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

DEMOLITION KEYNOTES

NO.	DESCRIPTION
1.02	REMOVE EXISTING INTERIOR WALL FINISHES (INCLUDING BUT NOT LIMITED TO [SINGULARLY OR IN ANY COMBINATION] PLASTER, GYPSUM BOARD, ACOUSTIC TILE, TACKABLE SURFACE ETC.) DOWN TO STUDS (OR STRUCTURE AS OCCURS) IN PREPARATION FOR INSTALLATION OF NEW WALL AND FINISHES. PROTECT ADJACENT UNAFFECTED FINISHES, PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
1.04	REMOVE PORTION OF EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL CLOSET FRAMING AND EQUIPMENT. PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
1.52	REMOVE PORTION OF (E) CEILING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL CLOSET, MECHANICAL EQUIPMENT AND ALL ASSOCIATED DUCTWORK AND APPURTENANCES. PATCH REPAIR AND PAINT AT ALL REMOVALS TO MATCH EXISTING ADJACENT FINISHES AND IN PREPARATION FOR NEW WORK.
1.55	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.

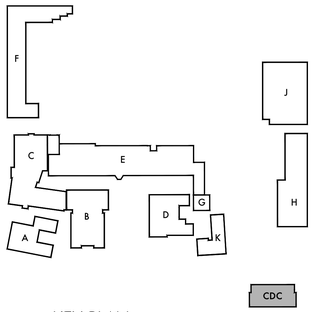


1 FLOOR PLAN

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

2 REFLECTED CEILING PLAN

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



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. TRIBERTI
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Child Development Center (CDC) Demolition Floor and Reflected Ceiling Plans

Sheet Number
ACDC201

Plot Date: 11/27/2019 12:14:54 PM Last Save By: dthomilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-ACDC201.dwg

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
201	MECHANICAL CLOSET SEE WALL TYPE AS REFERENCED AND PLAN FOR DIMENSIONS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
221	MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION
320	EXISTING MECHANICAL DUCT TO REMAIN, PROTECT IN PLACE TO BE REUSED AND CONNECT TO NEW EQUIPMENT. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
401	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
A-100-A	NEW DOOR AND FRAME. SEE DOOR SCHEDULE ON A611 FOR MORE INFORMATION
1	WALL TYPE. SEE A711 FOR MORE INFORMATION.

APPL. No. A 00-123456

DSA Stamp

Architect

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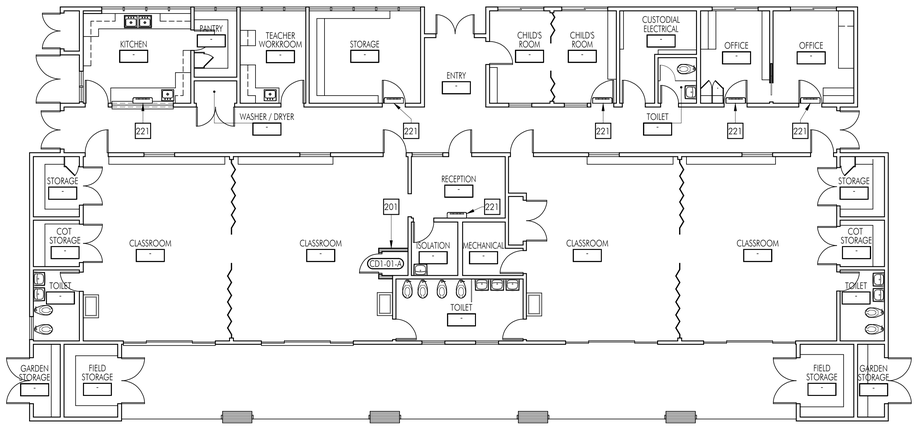
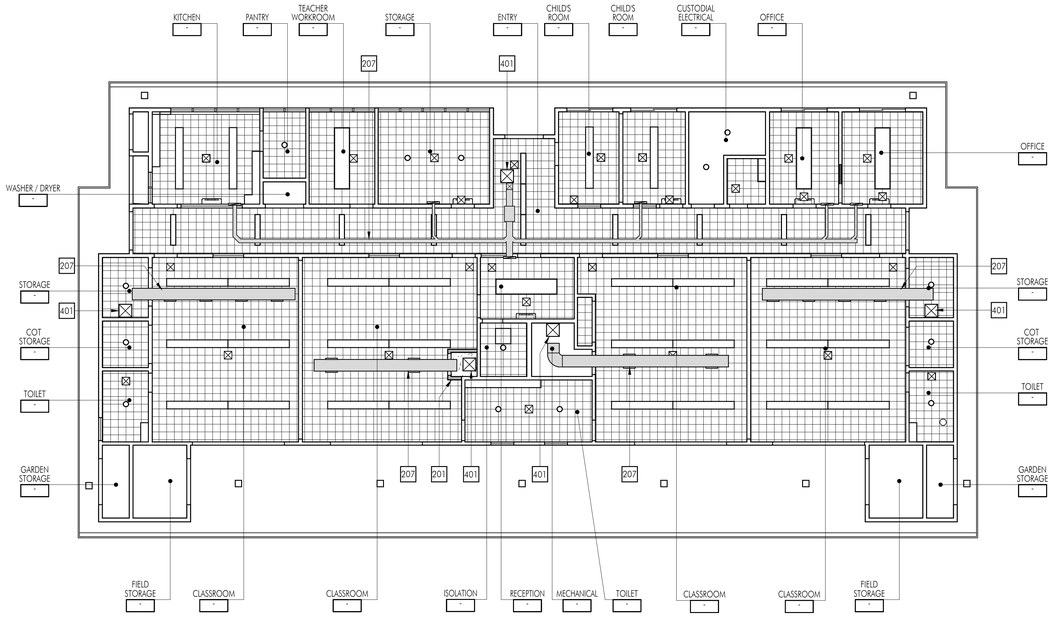


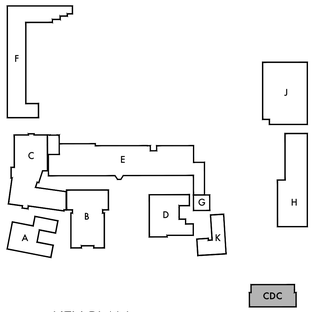
1 FLOOR PLAN

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



2 REFLECTED CEILING PLAN

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



KEY PLAN

Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. TRONSGARD
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

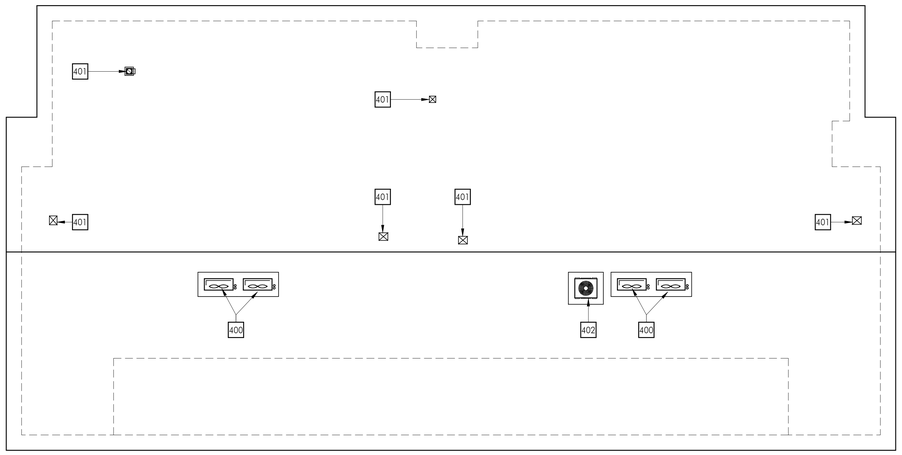
Sheet Title

Child Development Center (CDC) Floor and Reflected Ceiling Plans

Sheet Number

ACDC211

Plot Date: 11/27/2019 12:14:59 PM Last Save By: dthomilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-ACDC211.dwg



1 ROOF PLAN

NORTH

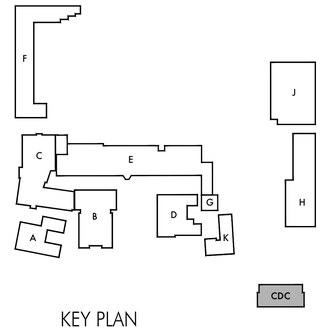
SCALE: 1/8"=1'-0"

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
400	ROOF MOUNTED MECHANICAL CONDENSER UNIT ON WOOD PAD. SEE PLAN FOR ROUGH DIMENSIONS, ADJUST PAD SIZE FOR NUMBER OF CONDENSERS AND REQUIRED CLEARANCES. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
401	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
402	ROOF MOUNTED MECHANICAL UNIT. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.



KEY PLAN

APPL. No. A 00-123456

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Checked By: RI

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LICENSED ARCHITECT
RICHARD M. INGHRIGHT
NO. C-26029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

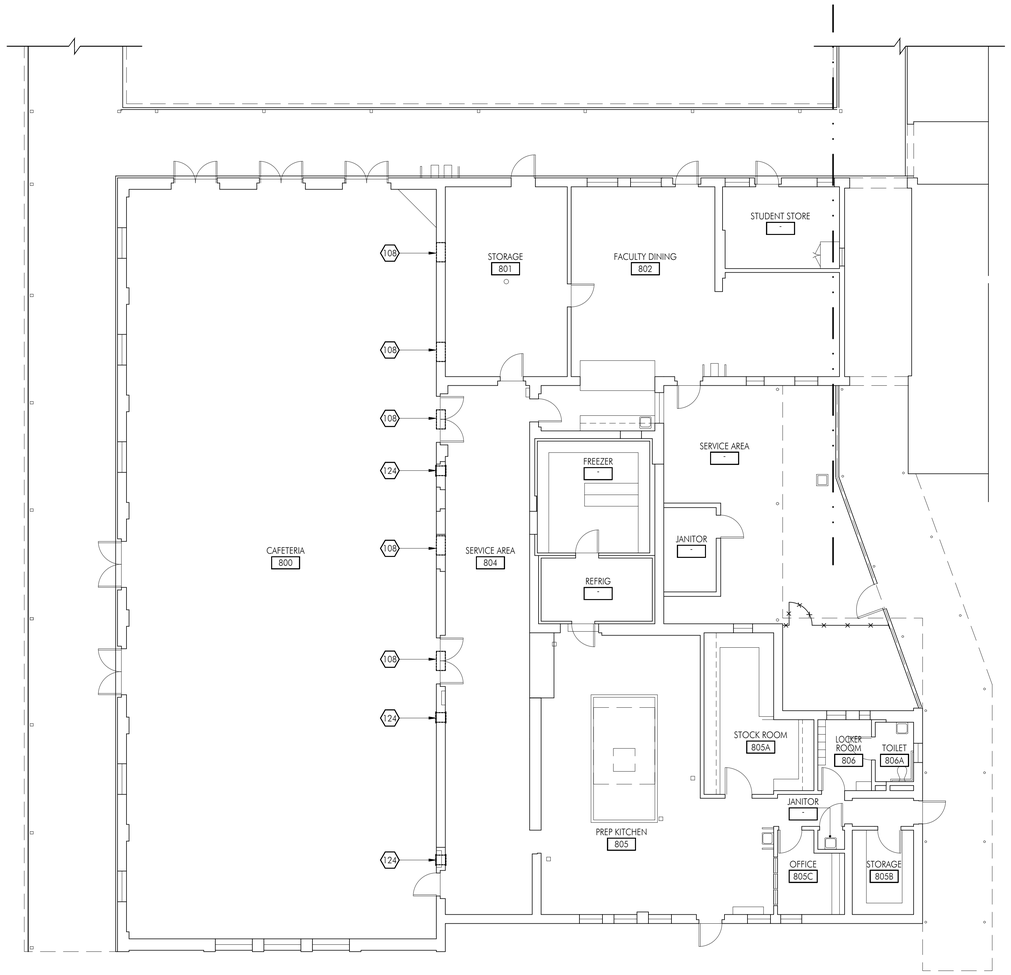
Sheet Title

Child Development Center (CDC) Roof Plan

Sheet Number

ACDC241

Plot Date: 11/27/2019 12:15:03 PM Last Save By: dhamilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-ACDC241.dwg



1 DEMOLITION FLOOR PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

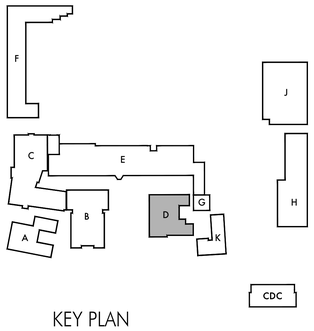
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

DEMOLITION KEYNOTES

NO.	DESCRIPTION
108	REMOVE INDICATED PORTION OF EXISTING WALL AT AN ELEVATION OF +10'-6" IN PREPARATION FOR NEW DUCT PENETRATION AND MECHANICAL REGISTER. SEE MECHANICAL FOR ADDITIONAL INFORMATION. (REVIEW LOCATION IN THE FIELD WITH ARCHITECT PRIOR TO COMPLETING WORK)
124	REMOVE EXISTING WALL MOUNTED MECHANICAL REGISTER AND ALL ASSOCIATED ITEMS. PREPARE EXISTING OPENING FOR NEW REGISTER AND DUCT AT SAME LOCATION. SEE MECHANICAL FOR ADDITIONAL INFORMATION.

DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	(E) DOOR TO REMAIN. SAND, CLEAN AND PATCH DOOR IN PREPARATION FOR NEW FINISHES.
	REMOVE EXISTING DOOR AND APPURTENANCES. PROTECT EXISTING FRAME IN PLACE U.N.O. CLEAN AND PATCH FRAME IN PREPARATION FOR NEW FINISHES AND DOOR HARDWARE.



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

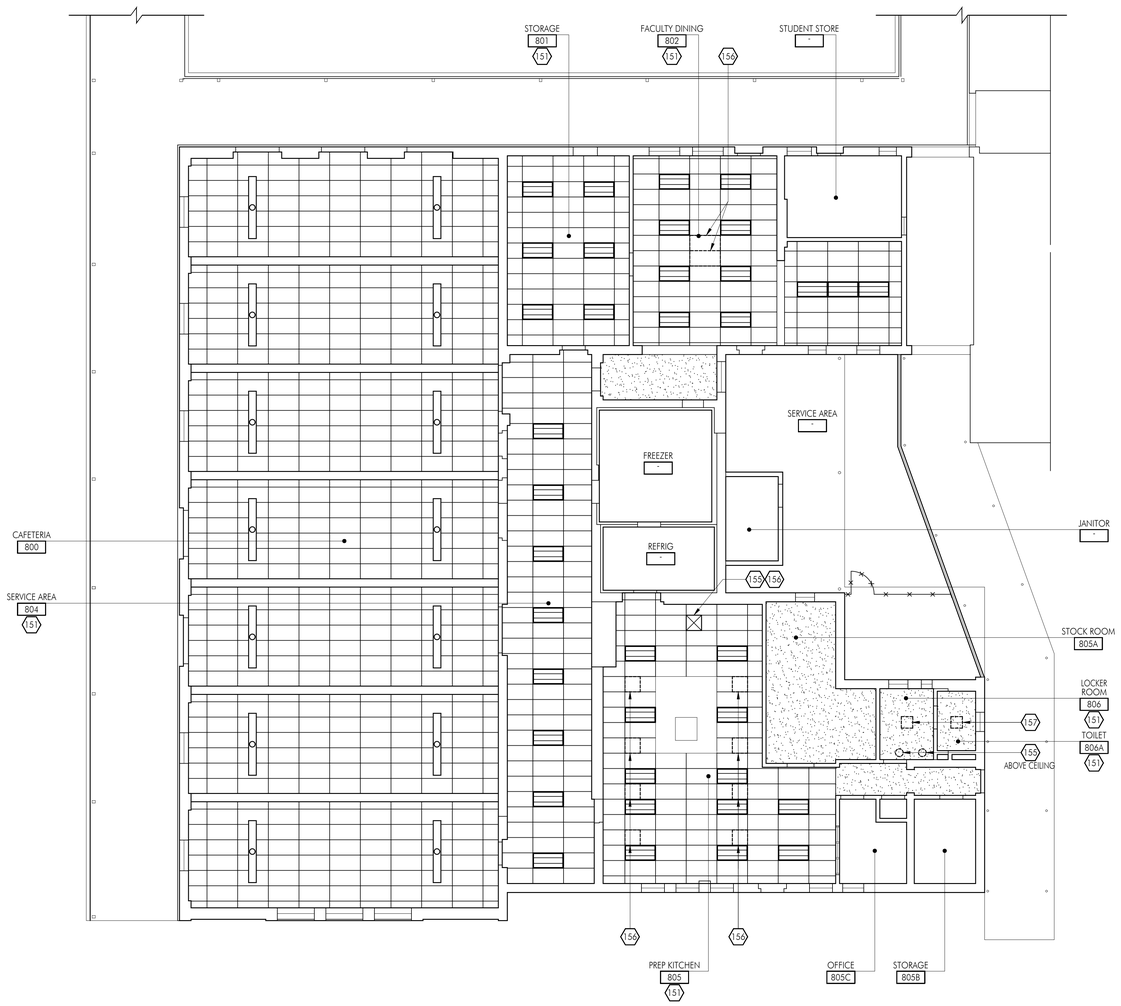
LICENSED ARCHITECT
HOWARD M. INGRASSIA
NO. C-26029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Building 'D'
Demolition Floor Plan

Sheet Number
AD201

Plot Date: 11/27/2019 12:15:08 PM Last Save By: dhamilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AD201.dwg



1 DEMOLITION REFLECTED PLAN

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

NORTH

FLOOR PLAN GENERAL NOTES

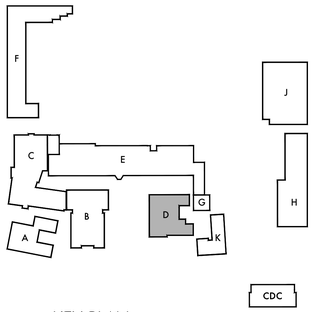
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

DEMOLITION KEYNOTES

NO.	DESCRIPTION
51	REMOVE PORTION OF (E) CEILING AS REQUIRED FOR INSTALLATION OF NEW DUCTWORK, AND UTILITIES AS OCCURS ABOVE CEILING. REPLACE CEILING TILES, PATCH, REPAIR AND PAINT AT ALL REMOVALS TO MATCH EXISTING ADJACENT.
55	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
56	REMOVE PORTION OF (E) CEILING TILES AND SUSPENDED T-BAR SYSTEM IN PREPARATION OF NEW MECHANICAL UNIT, DUCT OR REGISTER. PROTECT EXISTING ADJACENT CEILING AND MODIFY AS REQUIRED FOR TRANSITION TO NEW WORK AND FINISHES. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
57	REMOVE PORTION OF (E) GYPSUM BOARD OR PLASTER CEILING IN PREPARATION OF NEW MECHANICAL EQUIPMENT. PROTECT EXISTING ADJACENT CEILING AND MODIFY AS REQUIRED FOR TRANSITION TO NEW WORK AND FINISHES. **SEE MECHANICAL FOR ADDITIONAL INFORMATION.**

DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	REMOVE EXISTING LIGHT AND APPURTENANCES. SEE ELECTRICAL FOR MORE INFORMATION
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION



KEY PLAN

APPL. No. A 00-123456

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

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Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

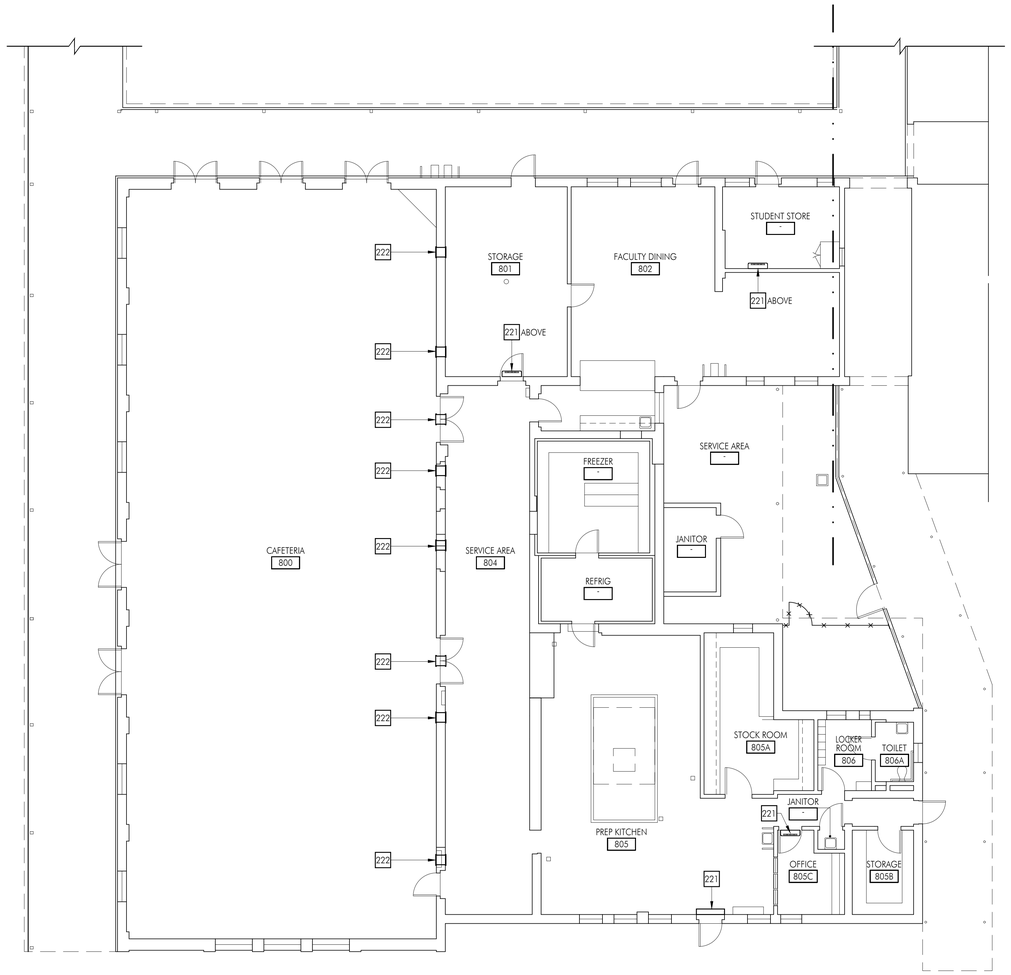
LICENSED ARCHITECT
RICHARD M. INGBRETSEN
NO. C-26220
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Building 'D'
Demolition Reflected
Ceiling Plan

Sheet Number
AD202

Plot Date: 11/27/2019 12:15:13 PM Last Save By: dthomilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AD202.dwg



1 FLOOR PLAN

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

NORTH

FLOOR PLAN GENERAL NOTES

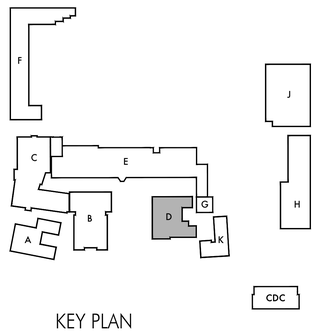
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
221	MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION
222	MECHANICAL REGISTER AT +10'-6" ABOVE FINISH FLOOR. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION. (REVIEW LOCATION IN THE FIELD WITH ARCHITECT PRIOR TO COMPLETING WORK)

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
A-100-A	NEW DOOR AND FRAME. SEE DOOR SCHEDULE ON A611 FOR MORE INFORMATION
1	WALL TYPE. SEE A711 FOR MORE INFORMATION.



KEY PLAN

APPL. No. A 00-123456

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

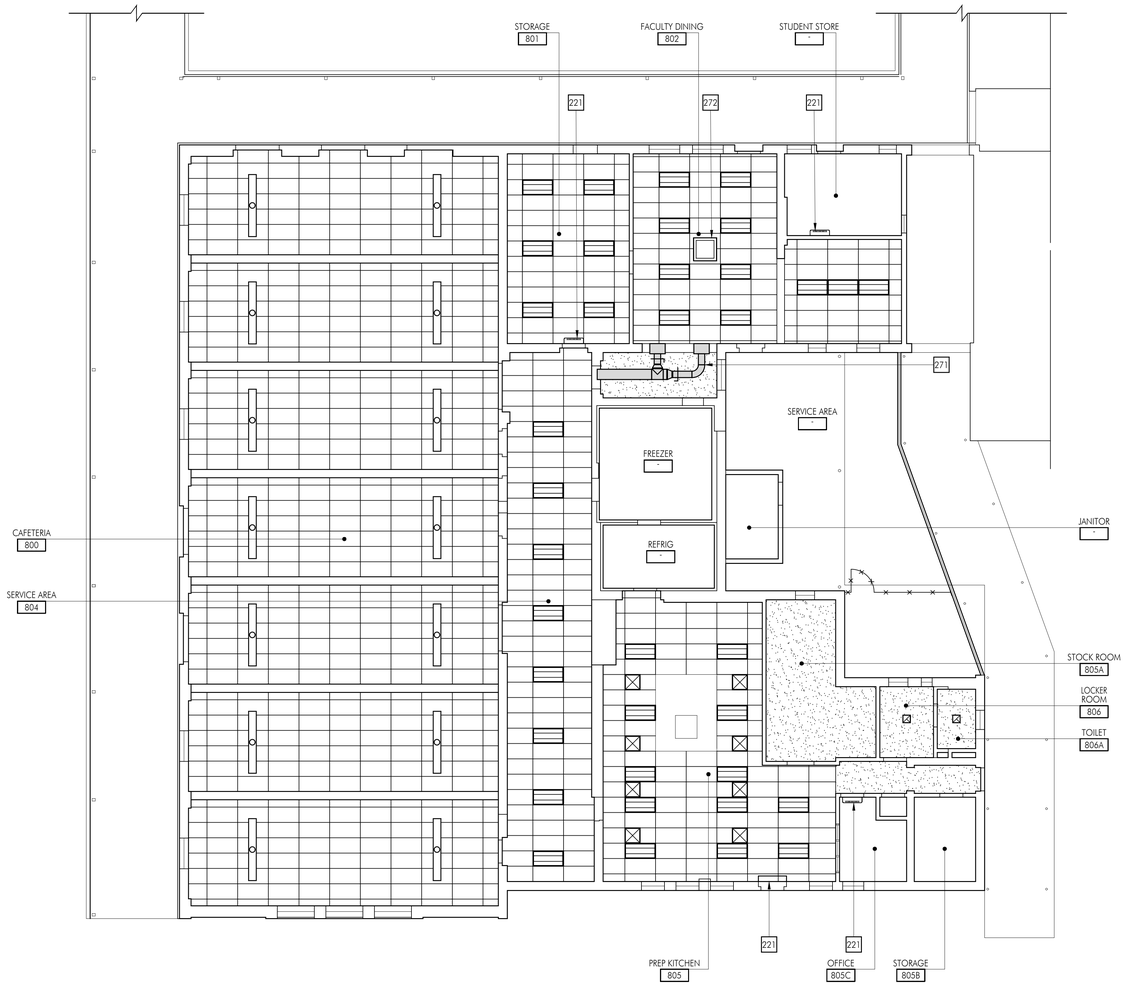
LICENSED ARCHITECT
RICHARD M. INGRASSIA
NO. C-26029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Building 'D' Floor Plan

Sheet Number
AD211

Plot Date: 11/27/2019 12:15:17 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AD211.dwg



1 REFLECTED PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

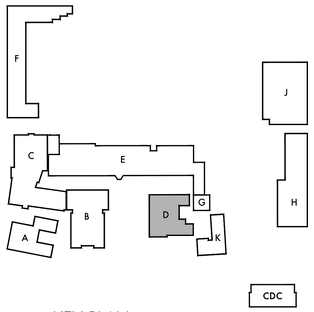
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
221	MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION
321	EXPOSED DUCT. SEE MECHANICAL FOR MORE INFORMATION.
322	CEILING MOUNTED MECHANICAL UNIT OR EQUIPMENT. SEE MECHANICAL FOR MORE INFORMATION.

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION
	RELOCATED LIGHT FIXTURE. SEE ELECTRICAL FOR MORE INFORMATION.
	FRAMED GYPSUM BOARD CEILING SEE X/XXX FOR ADDITIONAL INFORMATION AND REFERENCED DETAIL ON PLAN FOR SOFFIT CONDITIONS AS OCCURS. PAINT P-1
	AIR SUPPLY REGISTER
	RETURN AIR GRILLE
	EXHAUST GRILLE



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

RACHLIN PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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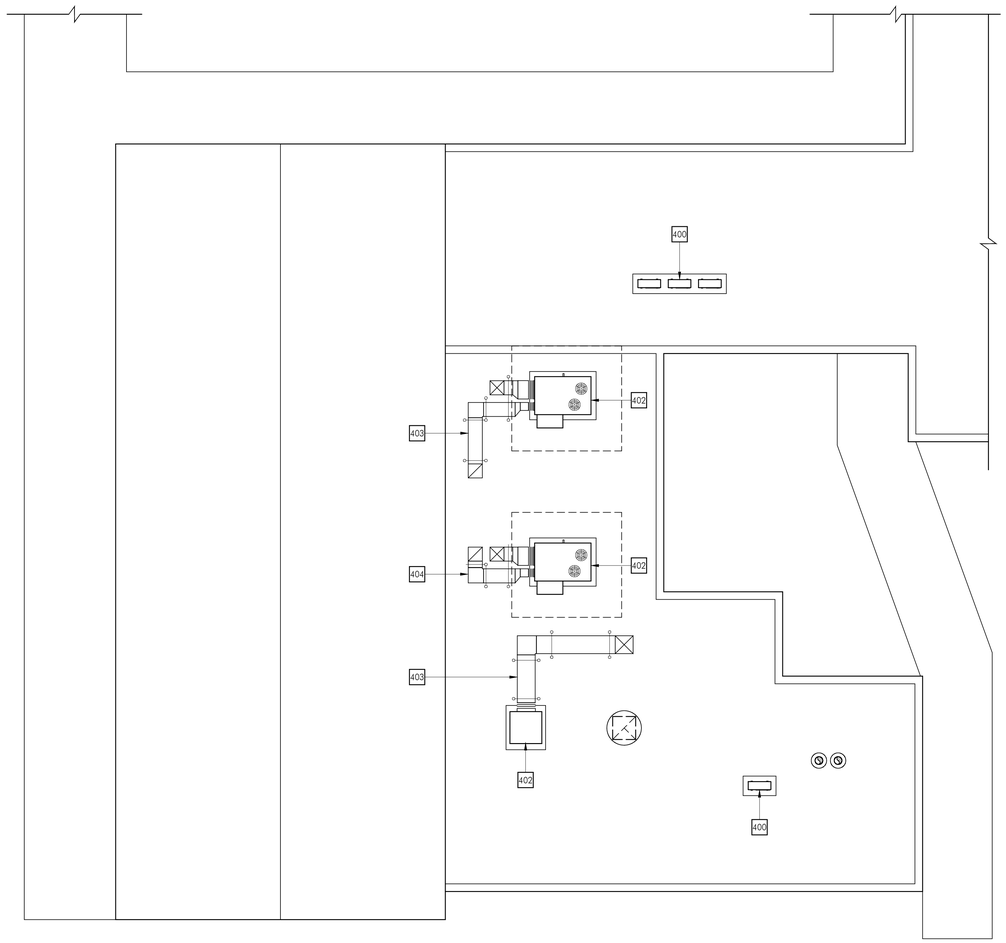
LICENSED ARCHITECT
RICHARD M. TISHBOURN
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Building 'D' Reflected Ceiling Plan

Sheet Number
AD231

Plot Date: 11/27/2019 12:15:22 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AD231.dwg



1 ROOF PLAN

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

NORTH

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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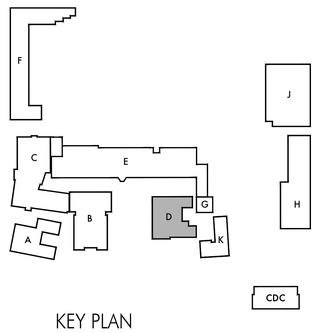
KEYNOTES

NO.	DESCRIPTION
400	ROOF MOUNTED MECHANICAL CONDENSER UNIT ON WOOD PAD. SEE PLAN FOR ROUGH DIMENSIONS, ADJUST PAD SIZE FOR NUMBER OF CONDENSERS AND REQUIRED CLEARANCES. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
401	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
402	ROOF MOUNTED MECHANICAL UNIT. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
403	ROOF MOUNTED MECHANICAL DUCT. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

RACHLIN
PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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LICENSED ARCHITECT
RICHARD M. INGRASSIA
NO. C-26029
REN. 2-28-21
STATE OF CALIFORNIA

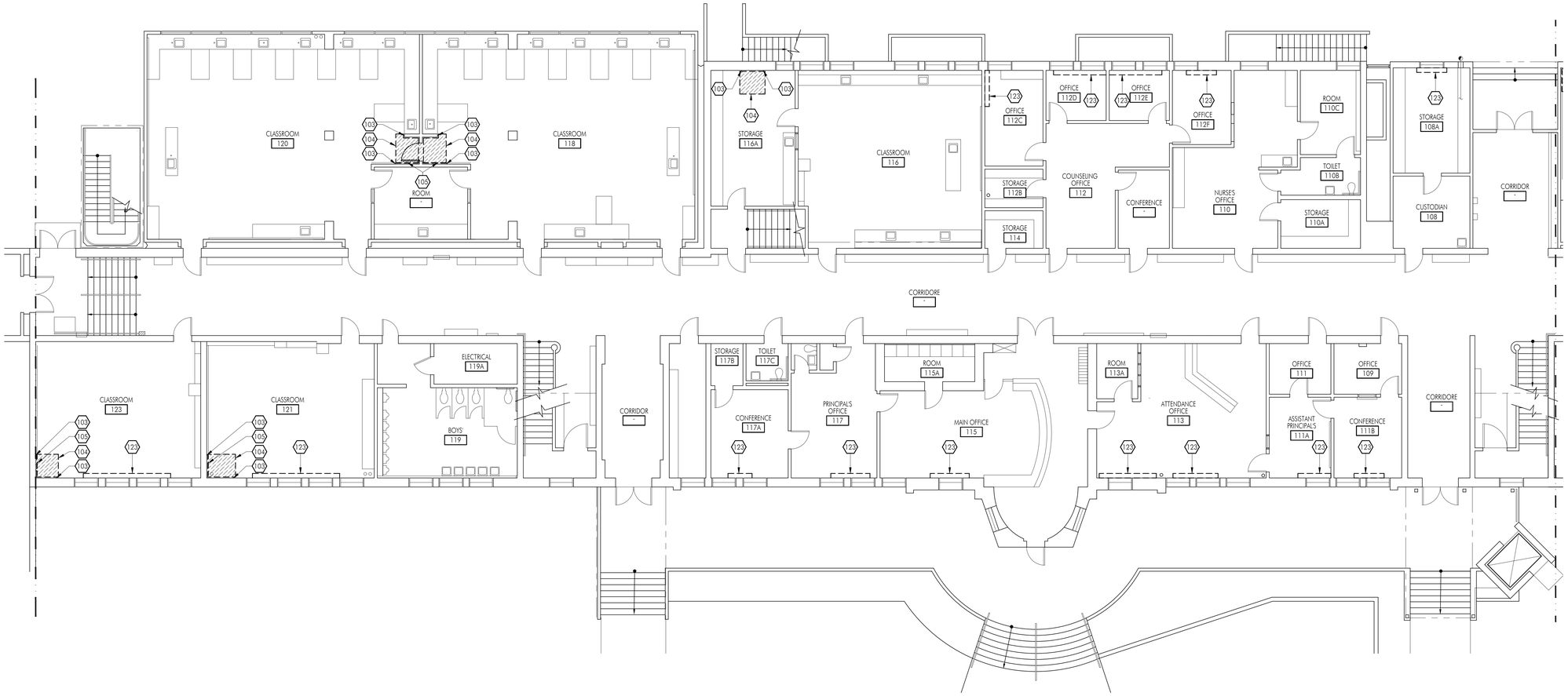
Consultants

Sheet Title
Building 'D' Roof Plan

Sheet Number
AD241

Plot Date: 11/27/2019 12:15:26 PM Last Save By: smonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AD241.dwg

APPL. No. A 00-123456



1 DEMOLITION FLOOR PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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DEMOLITION KEYNOTES

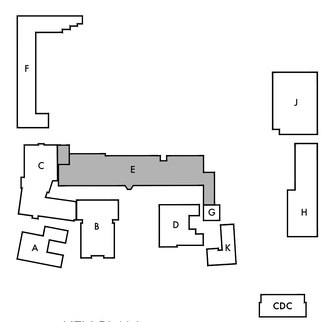
NO.	DESCRIPTION
101	REMOVE EXISTING DOOR AND FRAME. PATCH AND REPAIR ADJACENT WALL AND FLOOR AT REMOVAL AND PREPARE ADJACENT WALL AND FLOOR SURFACES FOR NEW WORK.
102	REMOVE INDICATED PORTION OF EXISTING WALL OR PARTITION. PROTECT ADJACENT UNAFFECTED FINISHES, PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
103	REMOVE EXISTING INTERIOR WALL FINISHES (INCLUDING BUT NOT LIMITED TO)SINGULARLY OR IN ANY COMBINATION) PLASTER, GYPSUM BOARD, ACOUSTIC TILE, TACKABLE SURFACE ETC.) DOWN TO STUDS (OR STRUCTURE AS OCCURS) IN PREPARATION FOR INSTALLATION OF NEW WALL AND FINISHES. PROTECT ADJACENT UNAFFECTED FINISHES, PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
104	REMOVE PORTION OF EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL CLOSET FRAMING AND EQUIPMENT. PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
105	REMOVE PORTION OF EXISTING TACK BOARD (OR MARKER BOARD AS OCCURS) AS REQUIRED FOR INSTALLATION NEW WORK. TACK BOARD SHALL BE CUT IN A STRAIGHT LINE. PROTECT REMAINING TACK BOARD IN PLACE AND PROVIDE NEW TRIM TO MATCH EXISTING TRIM AT CUT EDGE.
106	REMOVE AND PROTECT EXISTING TACK BOARD (OR WHITE BOARD AS OCCURS) FOR RELOCATION IN SAME ROOM. SEE FLOOR PLAN FOR NEW LOCATION. TURN OVER TO DISTRICT WHERE NO NEW LOCATION IS AVAILABLE.
107	REMOVE EXISTING CONTROL CABINET AND ALL ASSOCIATED ITEMS INCLUDING CONDUIT AND. PROTECT EXISTING CONTROL CABINET FOR RELOCATION IN SAME ROOM AS SHOWN ON PLAN. REROUTE ALL EXISTING POWER AND DATA TO NEW LOCATION. SEE ELECTRICAL FOR MORE INFORMATION.
108	REMOVE INDICATED PORTION OF EXISTING WALL AT AN ELEVATION OF +10'-6" IN PREPARATION FOR NEW DUCT PENETRATION AND MECHANICAL REGISTER. SEE MECHANICAL FOR ADDITIONAL INFORMATION. (REVIEW LOCATION

DEMOLITION KEYNOTES

NO.	DESCRIPTION
120	REMOVE EXISTING MECHANICAL EQUIPMENT AND APPURTENANCES. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
121	EXISTING MECHANICAL SOFFIT TO BE REUSED. REMOVE PORTIONS OF EXISTING PLASTER OR GYPSUM BOARD FINISH AS REQUIRED TO PERFORM NEW WORK. PATCH AND REPAIR AT REMOVAL TO MATCH EXISTING ADJACENT FINISH.
122	PROTECT EXISTING DUCT IN PLACE TO BE REUSED. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
123	REMOVE EXISTING RADIATOR AND ALL ASSOCIATED PIPING. SEE MECHANICAL FOR ADDITIONAL INFORMATION. PATCH AND REPAIR AT REMOVAL TO MATCH EXISTING ADJACENT FINISH.
124	REMOVE EXISTING WALL MOUNTED MECHANICAL REGISTER AND ALL ASSOCIATED ITEMS. PREPARE EXISTING **OPENING FOR NEW REGISTER AND DUCT AT SAME LOCATION. SEE MECHANICAL FOR ADDITIONAL INFORMATION.**

DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	(E) DOOR TO REMAIN. SAND, CLEAN AND PATCH DOOR IN PREPARATION FOR NEW FINISHES.
	REMOVE EXISTING DOOR AND APPURTENANCES. PROTECT EXISTING FRAME IN PLACE U.N.O. CLEAN AND PATCH FRAME IN PREPARATION FOR NEW FINISHES AND DOOR HARDWARE.



KEY PLAN

DSA Stamp

Architect

RACHLIN PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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Architect / Engineer Stamp

LICENSED ARCHITECT
RODNEY M. THOMPSON
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

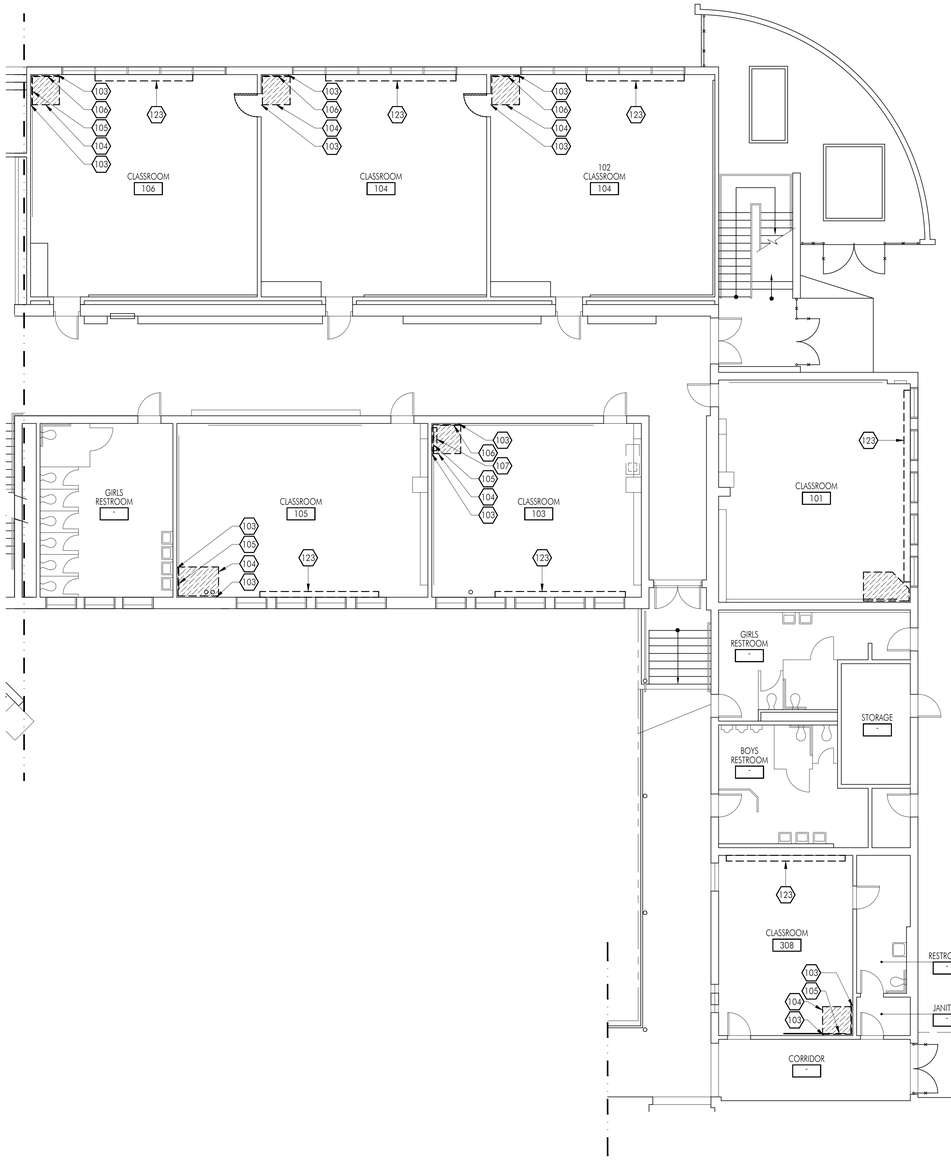
Building 'E First Floor Demolition Plan

Sheet Number

AE210A

Plot Date: 11/27/2019 12:15:31 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE201A.dwg

APPL. No. A 00-123456



1 DEMOLITION FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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DEMOLITION KEYNOTES

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DEMOLITION FLOOR PLAN LEGEND

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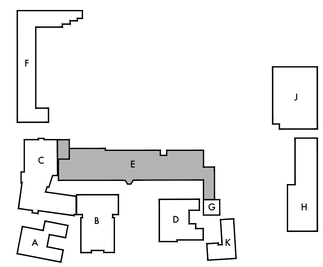

KEY PLAN

CDC

DSA Stamp

Architect

RACHLIN PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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LICENSED ARCHITECT
RODNEY M. RISHOFF
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

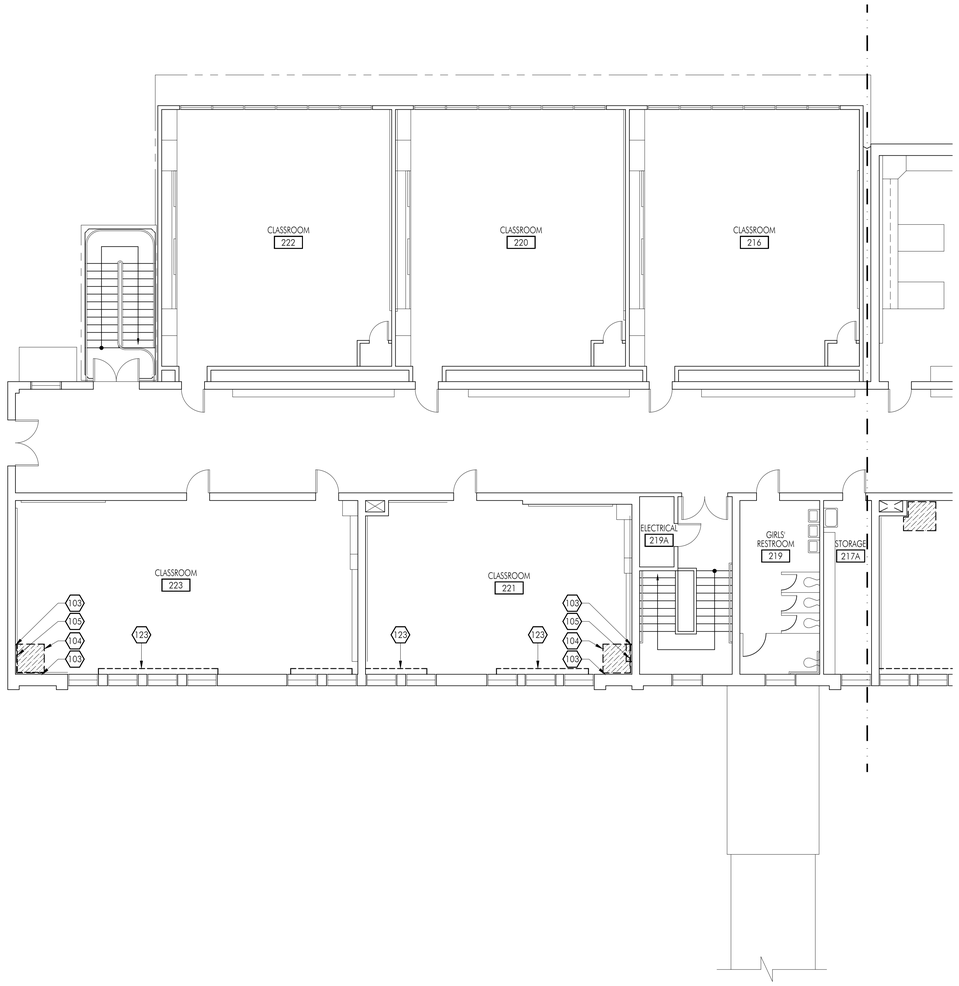
Consultants

Sheet Title
Building 'E First Floor Demolition Plan

Sheet Number
AE201B

Plot Date: 11/27/2019 12:15:35 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE201B.dwg

APPL. No. A 00-123456



1 DEMOLITION FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

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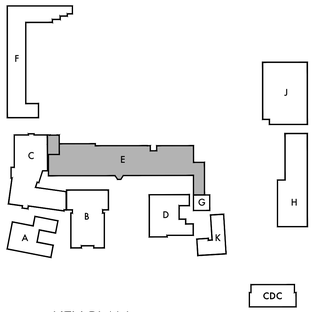
101	REMOVE EXISTING DOOR AND FRAME. PATCH AND REPAIR ADJACENT WALL AND FLOOR AT REMOVAL AND PREPARE ADJACENT WALL AND FLOOR SURFACES FOR NEW WORK.
102	REMOVE INDICATED PORTION OF EXISTING WALL OR PARTITION. PROTECT ADJACENT UNAFFECTED FINISHES, PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
103	REMOVE EXISTING INTERIOR WALL FINISHES (INCLUDING BUT NOT LIMITED TO [SINGULARLY OR IN ANY COMBINATION] PLASTER, GYPSUM BOARD, ACOUSTIC TILE, TACKABLE SURFACE ETC.) DOWN TO STUDS (OR STRUCTURE AS OCCURS) IN PREPARATION FOR INSTALLATION OF NEW WALL AND FINISHES. PROTECT ADJACENT UNAFFECTED FINISHES, PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
104	REMOVE PORTION OF EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL CLOSET FRAMING AND EQUIPMENT. PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
105	REMOVE PORTION OF EXISTING TACK BOARD (OR MARKER BOARD AS OCCURS) AS REQUIRED FOR INSTALLATION NEW WORK. TACK BOARD SHALL BE CUT IN A STRAIGHT LINE. PROTECT REMAINING TACK BOARD IN PLACE AND PROVIDE NEW TRIM TO MATCH EXISTING TRIM AT CUT EDGE.
106	REMOVE AND PROTECT EXISTING TACK BOARD (OR WHITE BOARD AS OCCURS) FOR RELOCATION IN SAME ROOM. SEE FLOOR PLAN FOR NEW LOCATION. TURN OVER TO DISTRICT WHERE NO NEW LOCATION IS AVAILABLE.
107	REMOVE EXISTING CONTROL CABINET AND ALL ASSOCIATED ITEMS INCLUDING CONDUIT AND. PROTECT EXISTING CONTROL CABINET FOR RELOCATION IN SAME ROOM AS SHOWN ON PLAN. REROUTE ALL EXISTING POWER AND DATA TO NEW LOCATION. SEE ELECTRICAL FOR MORE INFORMATION.
120	REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING. CAP AND PROTECT EXISTING PLUMBING PENETRATIONS AND MECHANICAL REGISTER. SEE MECHANICAL FOR ADDITIONAL INFORMATION. (REVIEW LOCATION
121	EXISTING MECHANICAL SOFFIT TO BE REUSED. REMOVE PORTIONS OF EXISTING PLASTER OR GYPSUM BOARD FINISH AS REQUIRED TO PERFORM NEW WORK. PATCH AND REPAIR AT REMOVAL TO MATCH EXISTING ADJACENT FINISH.
122	PROTECT EXISTING DUCT IN PLACE TO BE REUSED. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
123	REMOVE EXISTING RADIATOR AND ALL ASSOCIATED PIPING. SEE MECHANICAL FOR ADDITIONAL INFORMATION. PATCH AND REPAIR AT REMOVAL TO MATCH EXISTING ADJACENT FINISH.
124	REMOVE EXISTING WALL MOUNTED MECHANICAL REGISTER AND ALL ASSOCIATED ITEMS. PREPARE EXISTING OPENING FOR NEW REGISTER AND DUCT AT SAME LOCATION. SEE MECHANICAL FOR ADDITIONAL INFORMATION.

DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	(E) DOOR TO REMAIN. SAND, CLEAN AND PATCH DOOR IN PREPARATION FOR NEW FINISHES.
	REMOVE EXISTING DOOR AND APPURTENANCES. PROTECT EXISTING FRAME IN PLACE U.N.O. CLEAN AND PATCH FRAME IN PREPARATION FOR NEW FINISHES AND DOOR HARDWARE.



KEY PLAN

DSA Stamp

Architect

RACHLIN
PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. INGBRIGT
NO. C-26029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

Building 'E Second Floor Demolition Plan

Sheet Number

AE202A

Plot Date: 11/27/2019 12:15:40 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE202A.dwg

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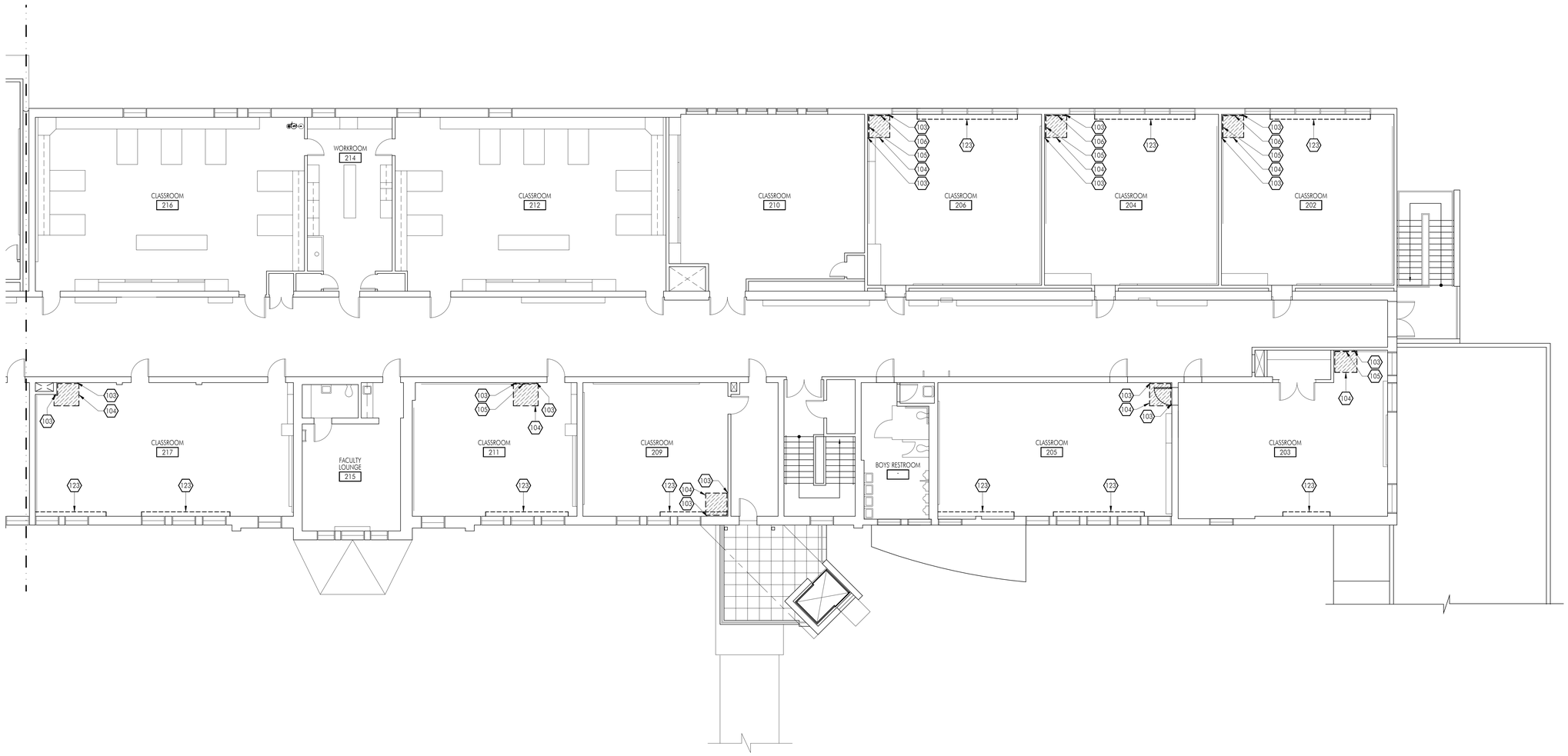


1 DEMOLITION FLOOR PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

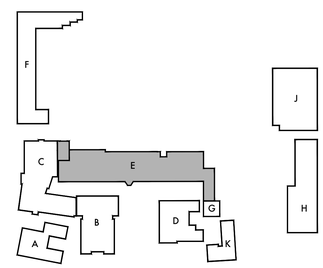
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

DEMOLITION KEYNOTES

NO.	DESCRIPTION
101	REMOVE EXISTING DOOR AND FRAME. PATCH AND REPAIR ADJACENT WALL AND FLOOR AT REMOVAL AND PREPARE ADJACENT WALL AND FLOOR SURFACES FOR NEW WORK.
102	REMOVE INDICATED PORTION OF EXISTING WALL OR PARTITION. PROTECT ADJACENT UNAFFECTED FINISHES, PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
103	REMOVE EXISTING INTERIOR WALL FINISHES (INCLUDING BUT NOT LIMITED TO [SINGULARLY OR IN ANY COMBINATION] PLASTER, GYPSUM BOARD, ACOUSTIC TILE, TACKABLE SURFACE ETC.) DOWN TO STUDS (OR STRUCTURE AS OCCURS) IN PREPARATION FOR INSTALLATION OF NEW WALL AND FINISHES. PROTECT ADJACENT UNAFFECTED FINISHES, PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
104	REMOVE PORTION OF EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL CLOSET FRAMING AND EQUIPMENT. PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
105	REMOVE PORTION OF EXISTING TACK BOARD (OR MARKER BOARD AS OCCURS) AS REQUIRED FOR INSTALLATION NEW WORK. TACK BOARD SHALL BE CUT IN A STRAIGHT LINE. PROTECT REMAINING TACK BOARD IN PLACE AND PROVIDE NEW TRIM TO MATCH EXISTING TRIM AT CUT EDGE.
106	REMOVE AND PROTECT EXISTING TACK BOARD (OR WHITE BOARD AS OCCURS) FOR RELOCATION IN SAME ROOM. SEE FLOOR PLAN FOR NEW LOCATION. TURN OVER TO DISTRICT WHERE NO NEW LOCATION IS AVAILABLE.
107	REMOVE EXISTING CONTROL CABINET AND ALL ASSOCIATED ITEMS INCLUDING CONDUIT AND. PROTECT EXISTING CONTROL CABINET FOR RELOCATION IN SAME ROOM AS SHOWN ON PLAN. REROUTE ALL EXISTING POWER AND DATA TO NEW LOCATION. SEE ELECTRICAL FOR MORE INFORMATION.
120	REMOVE EXISTING MECHANICAL EQUIPMENT AND APPURTENANCES. SEE MECHANICAL FOR ADDITIONAL INFORMATION. REMOVE EXISTING PLUMBING PIPING AT REMOVAL OF EXISTING. SEE MECHANICAL FOR ADDITIONAL INFORMATION. (REVIEW LOCATION DRAWINGS FOR ADDITIONAL INFORMATION)
121	EXISTING MECHANICAL SOFFIT TO BE REUSED. REMOVE PORTIONS OF EXISTING PLASTER OR GYPSUM BOARD FINISH AS REQUIRED TO PERFORM NEW WORK. PATCH AND REPAIR AT REMOVAL TO MATCH EXISTING ADJACENT FINISH.
122	PROTECT EXISTING DUCT IN PLACE TO BE REUSED. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
123	REMOVE EXISTING RADIATOR AND ALL ASSOCIATED PIPING. SEE MECHANICAL FOR ADDITIONAL INFORMATION. PATCH AND REPAIR AT REMOVAL TO MATCH EXISTING ADJACENT FINISH.
124	REMOVE EXISTING WALL MOUNTED MECHANICAL REGISTER AND ALL ASSOCIATED ITEMS. PREPARE EXISTING OPENING FOR NEW REGISTER AND DUCT AT SAME LOCATION. SEE MECHANICAL FOR ADDITIONAL INFORMATION.

DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	(E) DOOR TO REMAIN. SAND, CLEAN AND PATCH DOOR IN PREPARATION FOR NEW FINISHES.
	REMOVE EXISTING DOOR AND APPURTENANCES. PROTECT EXISTING FRAME IN PLACE U.N.O. CLEAN AND PATCH FRAME IN PREPARATION FOR NEW FINISHES AND DOOR HARDWARE.



KEY PLAN

CDC

DSA Stamp

Architect

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8640 National Boulevard
Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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1	11.27.19	50% CD's

Date: 11.27.2019
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Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. TISHBERGER
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

Building 'E Second Floor Demolition Plan

Sheet Number

AE202B

Plot Date: 11/27/2019 12:15:45 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE202B.dwg

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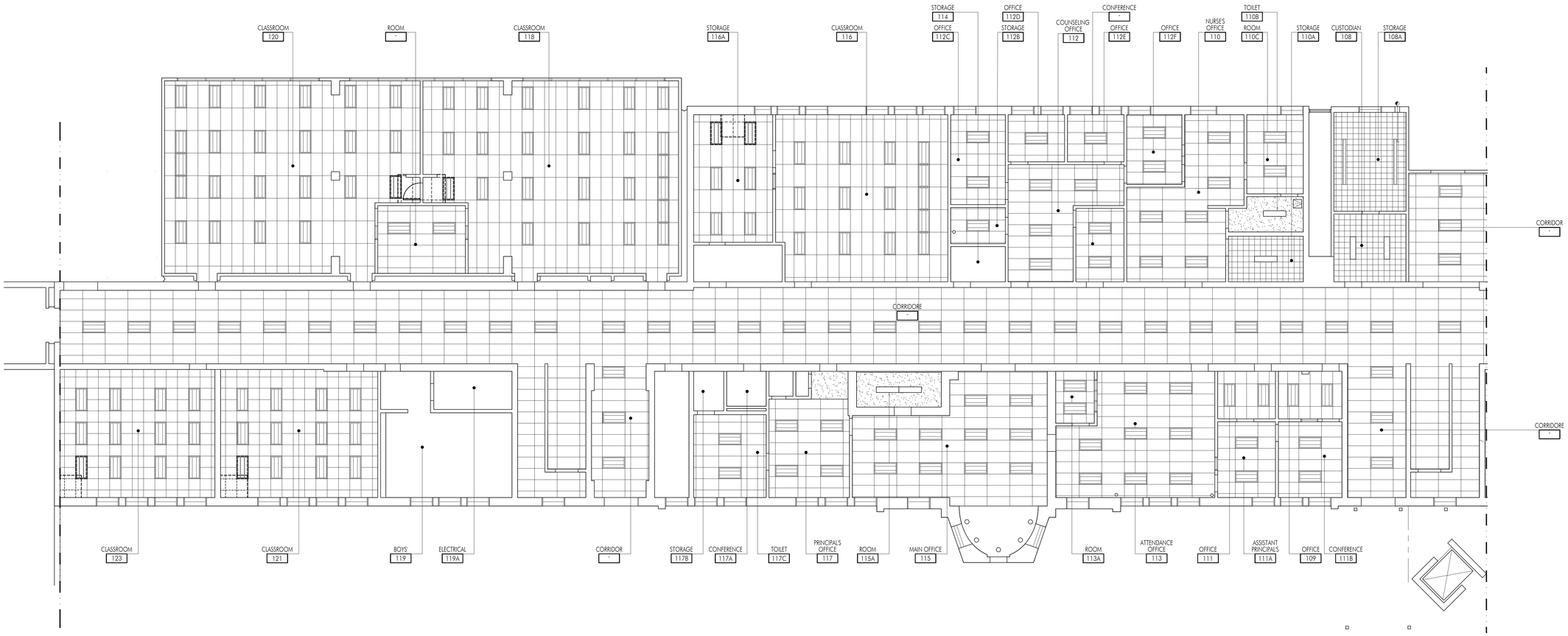


1 DEMOLITION REFLECTED CEILING PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

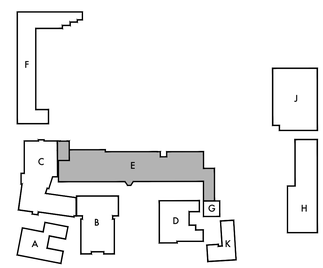
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

DEMOLITION KEYNOTES

NO.	DESCRIPTION
151	REMOVE PORTION OF (E) CEILING AS REQUIRED FOR INSTALLATION OF NEW DUCTWORK, AND UTILITIES AS OCCURS ABOVE CEILING. REPLACE CEILING TILES, PATCH, REPAIR AND PAINT AT ALL REMOVALS TO MATCH EXISTING ADJACENT.
152	REMOVE PORTION OF (E) CEILING TILES AND SUSPENDED T-BAR SYSTEM IN PREPARATION OF NEW SOFFIT. PROTECT EXISTING ADJACENT CEILING AND MODIFY AS REQUIRED FOR TRANSITION TO NEW WORK AND FINISHES.
153	REMOVE PORTION OF (E) CEILING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL CLOSET, MECHANICAL EQUIPMENT AND ALL ASSOCIATED DUCTWORK AND APPURTENANCES. PATCH REPAIR AND PAINT AT ALL REMOVALS TO MATCH EXISTING ADJACENT FINISHES AND IN PREPARATION FOR NEW WORK.
154	EXISTING MECHANICAL DUCT TO REMAIN, PROTECT IN PLACE TO BE REUSED AND CONNECT TO NEW EQUIPMENT. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
155	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
156	REMOVE PORTION OF (E) CEILING TILES AND SUSPENDED T-BAR SYSTEM IN PREPARATION OF NEW MECHANICAL UNIT, DUCT OR REGISTER. PROTECT EXISTING ADJACENT CEILING AND MODIFY AS REQUIRED FOR TRANSITION TO NEW WORK AND FINISHES. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
157	REMOVE PORTION OF (E) GYPSUM BOARD OR PLASTER CEILING IN PREPARATION OF NEW MECHANICAL EQUIPMENT. PROTECT EXISTING ADJACENT CEILING AND MODIFY AS REQUIRED FOR TRANSITION TO NEW WORK AND FINISHES. SEE MECHANICAL FOR ADDITIONAL INFORMATION.

DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	REMOVE EXISTING LIGHT AND APPURTENANCES. SEE ELECTRICAL FOR MORE INFORMATION
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION



KEY PLAN

CDC

DSA Stamp

Architect

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Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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1	11.27.19	50% CD's

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Scale: As Shown
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Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. RIDBERGAT
NO. C-28229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Building 'E First Floor Demolition Reflected Ceiling Plan

Sheet Number
AE203A

Plot Date: 11/27/2019 12:15:50 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE203A.dwg

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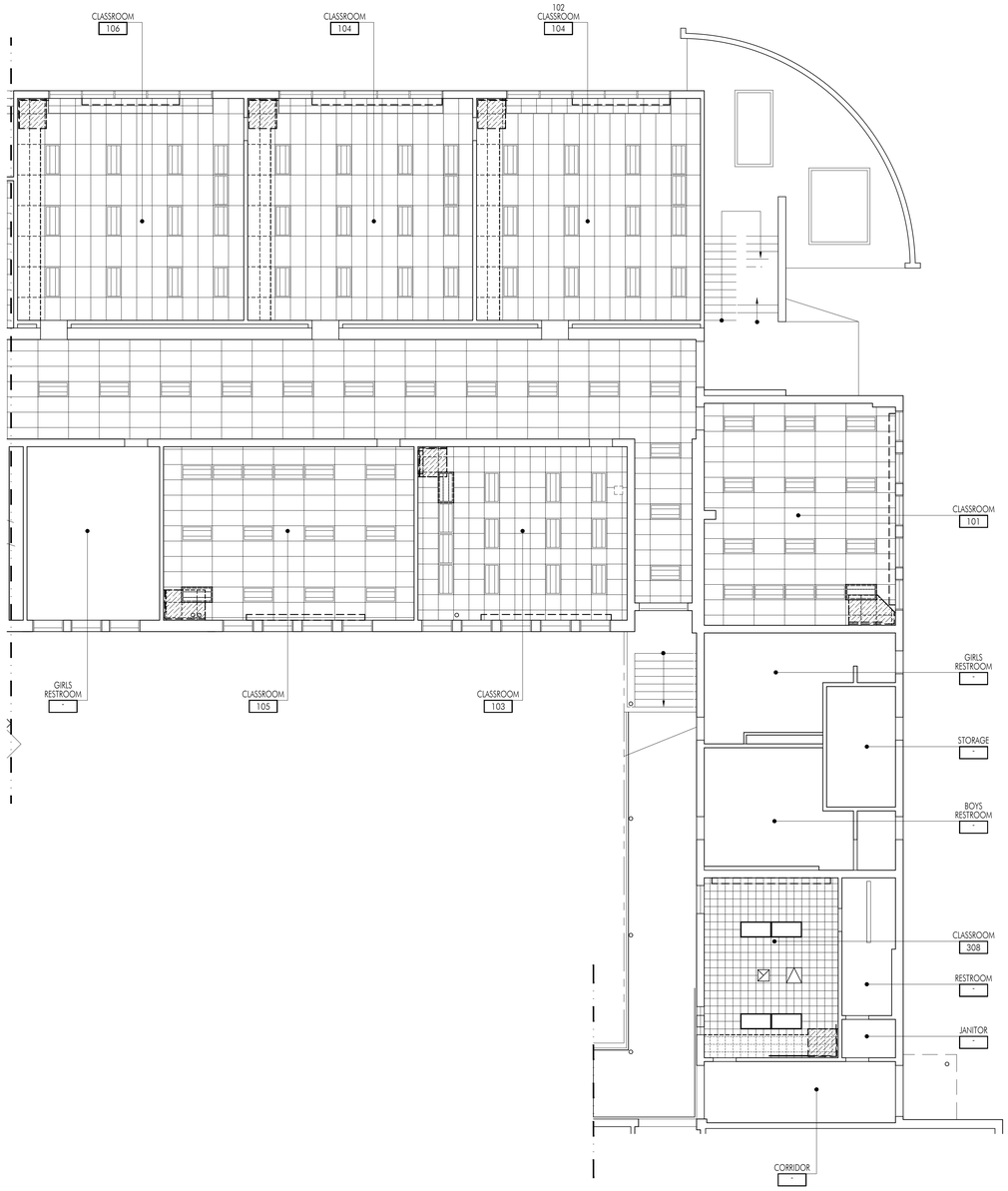
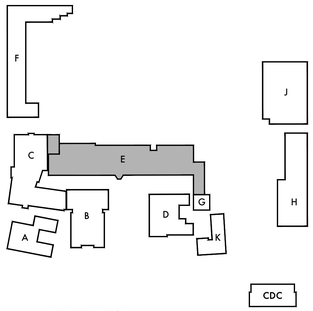


1 DEMOLITION REFLECTED CILING PLAN

NORTH

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



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LICENSED ARCHITECT
RODNEY M. RISHOFF
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

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Building 'E First Floor Demolition Reflected Ceiling Plan

Sheet Number

AE203B

Plot Date: 11/27/2019 12:15:54 PM Last Save By: dhamilton Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD LMS-AE203B.dwg

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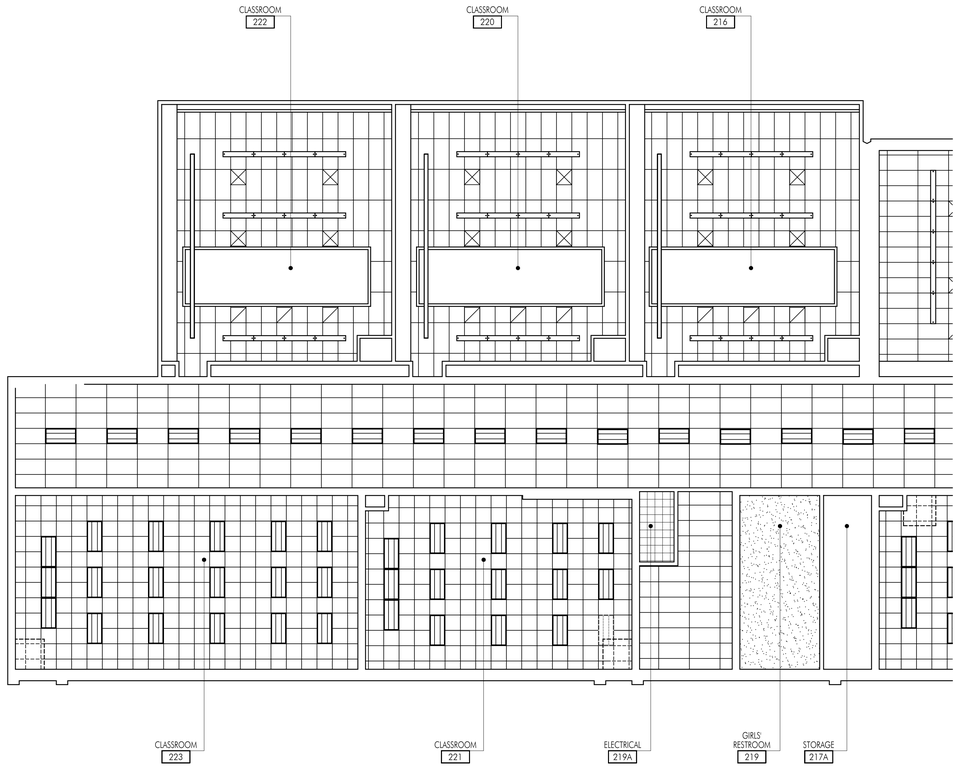
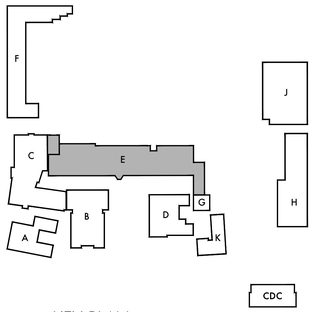


1 DEMOLITION REFLECTED CEILING PLAN

NORTH

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



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LICENSED ARCHITECT
RICHARD M. RIGHTMIRE
NO. C-26029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

Building 'E Second Floor Demolition Reflected Ceiling Plan

Sheet Number

AE204A

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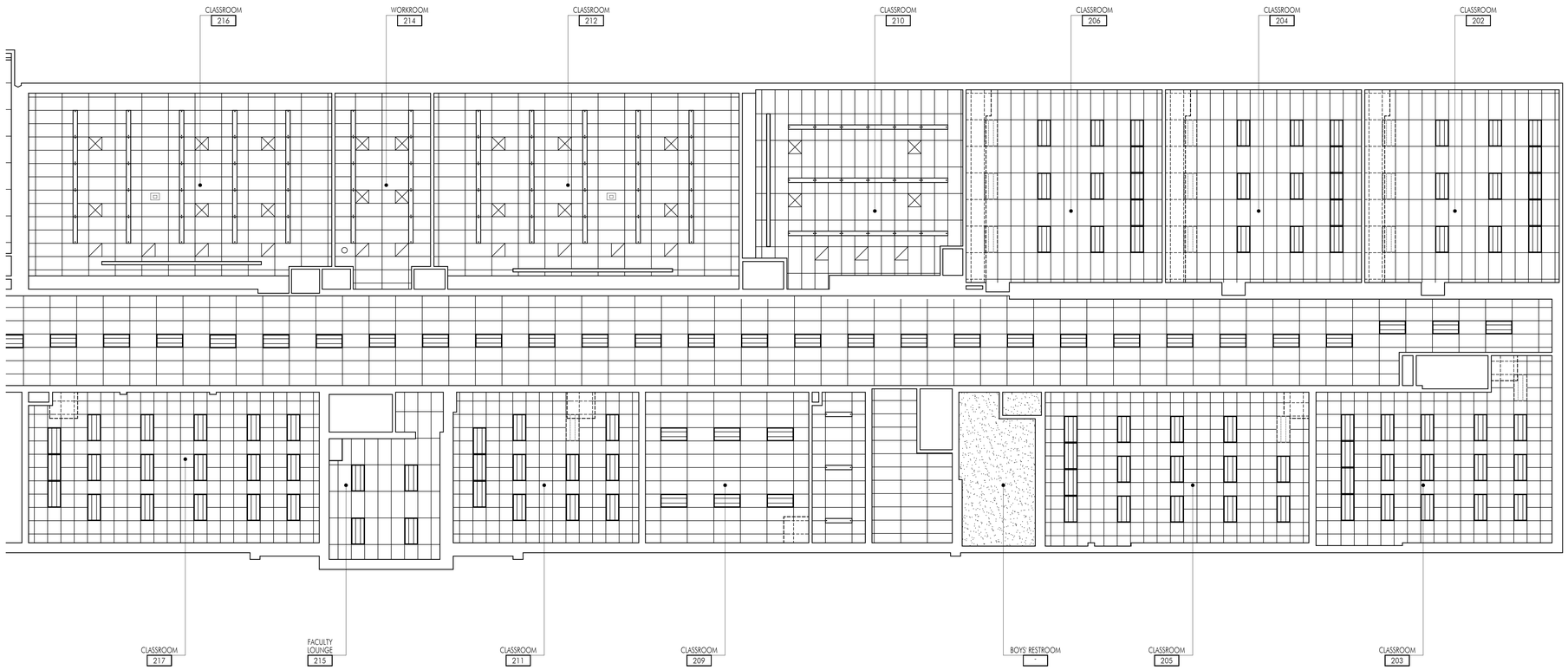
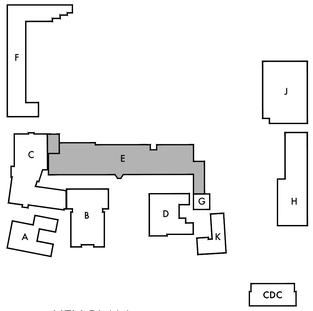


1 DEMOLITION REFLECTED CEILING PLAN

NORTH

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



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Consultants

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Building 'E Second Floor Demolition Reflected Ceiling Plan

Sheet Number

AE204B

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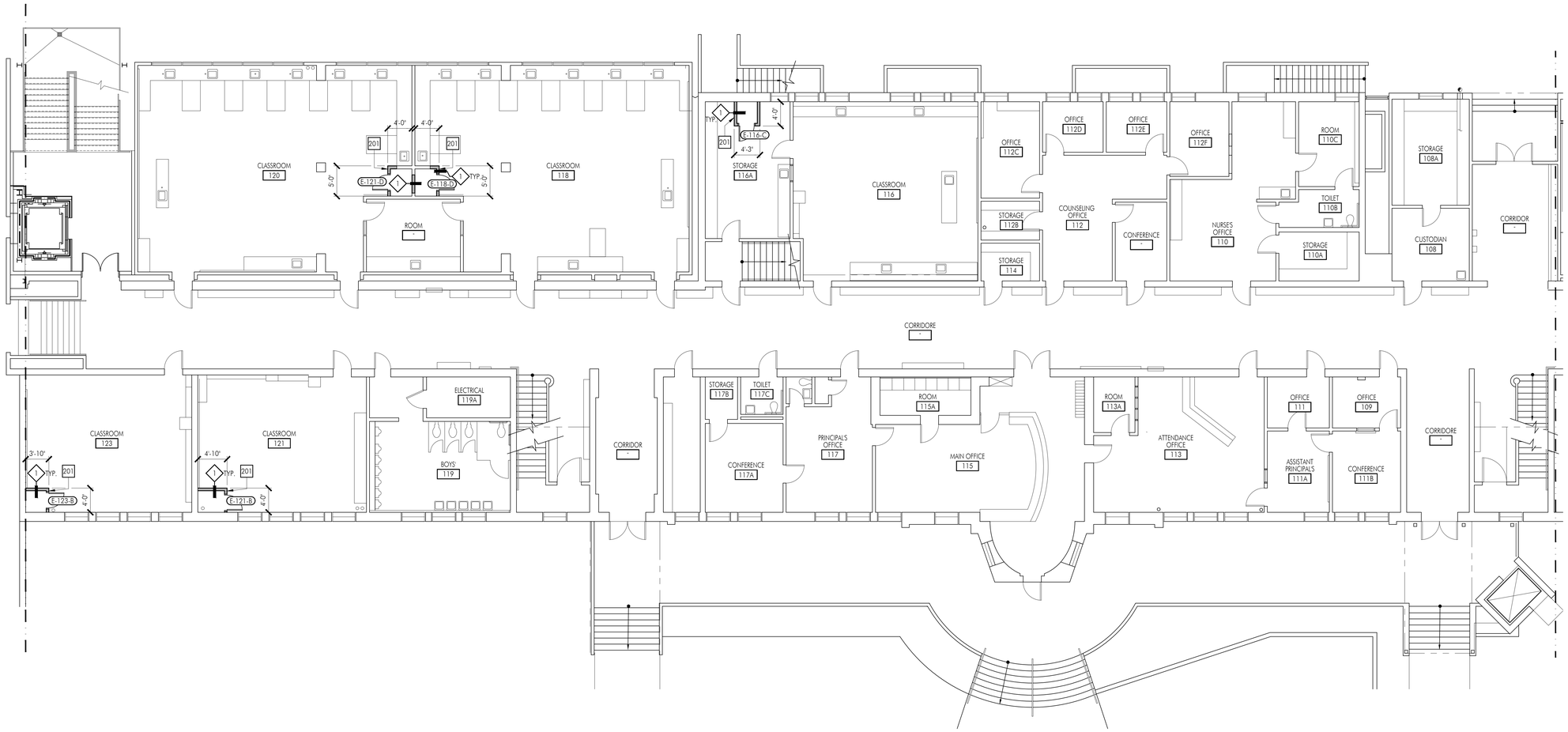
APPL. No. A 00-123456



1 FLOOR PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

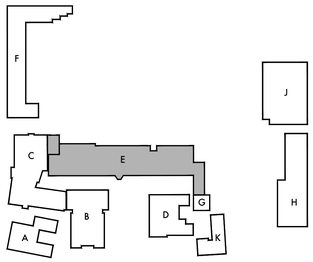
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
201	MECHANICAL CLOSET SEE WALL TYPE AS REFERENCED AND PLAN FOR DIMENSIONS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
221	MECHANICAL EQUIPMENT. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION
222	MECHANICAL REGISTER AT +10'-6" ABOVE FINISH FLOOR. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL INFORMATION. (REVIEW LOCATION IN THE FIELD WITH ARCHITECT PRIOR TO COMPLETING WORK)

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
A-100.A	NEW DOOR AND FRAME. SEE DOOR SCHEDULE ON A611 FOR MORE INFORMATION
1	WALL TYPE. SEE A711 FOR MORE INFORMATION.



CDC

KEY PLAN

DSA Stamp

Architect

RACHLIN PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. INSKEEP
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

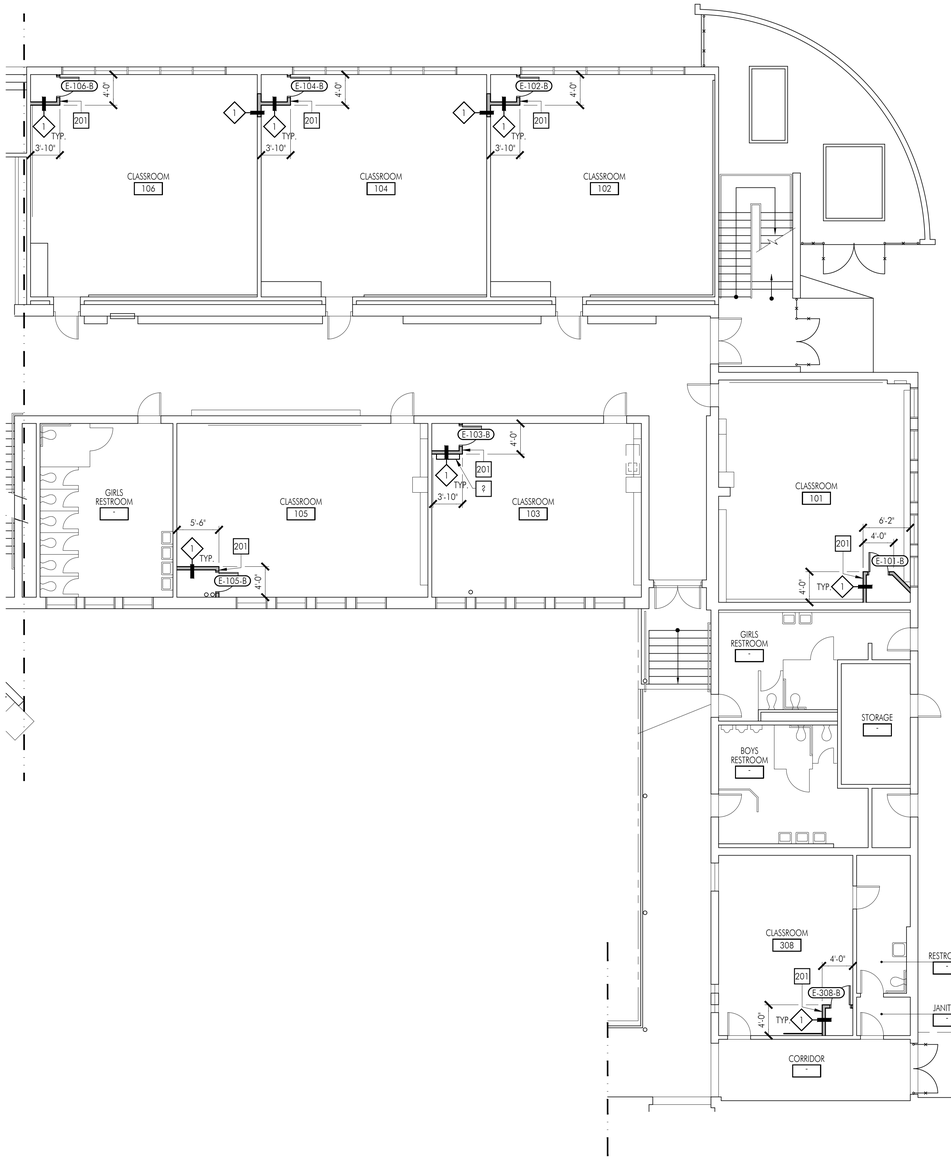
Building 'E First Floor Plan

Sheet Number

AE211A

Plot Date: 11/27/2019 12:16:05 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE211A.dwg

APPL. No. A 00-123456



1 FLOOR PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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KEYNOTES

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FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
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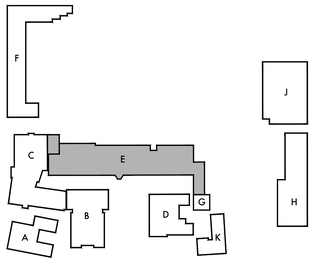

CDC

KEY PLAN

DSA Stamp

Architect

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Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RODNEY M. RABINOVITZ
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

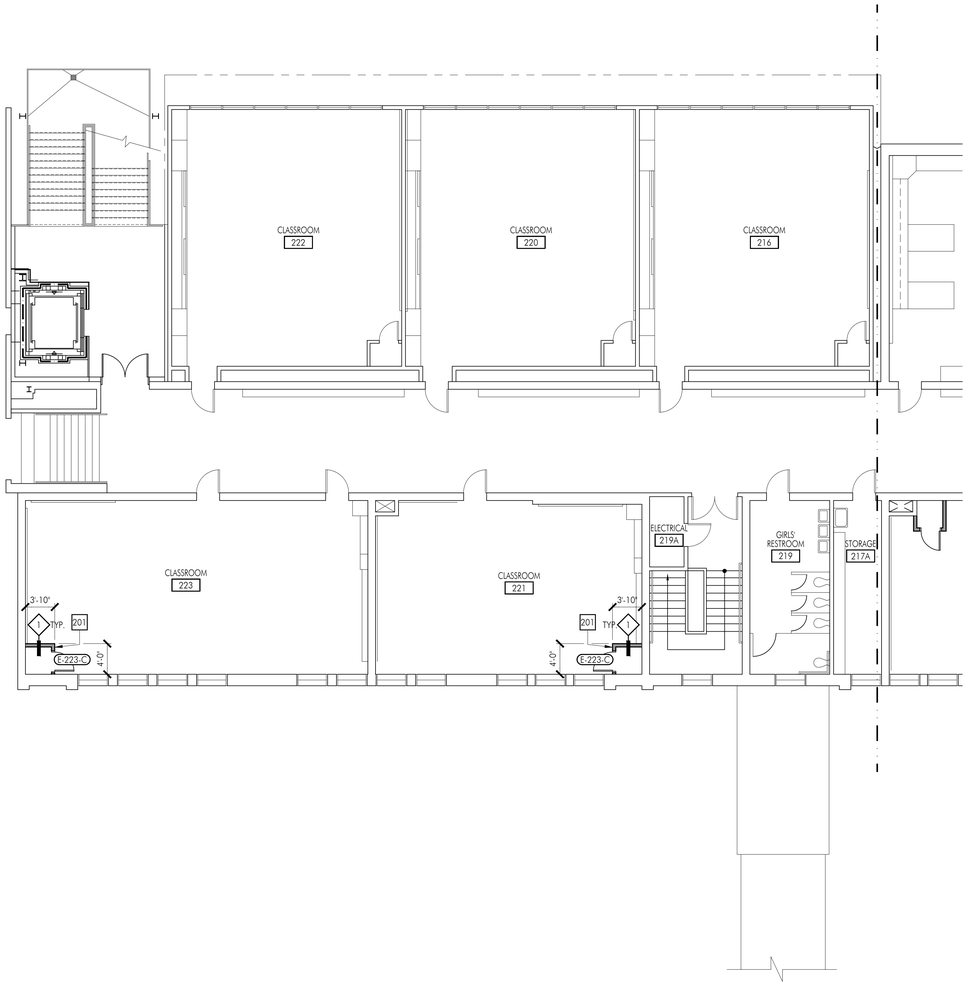
Consultants

Sheet Title
Building 'E First Floor Plan

Sheet Number
AE211B

Plot Date: 11/27/2019 12:16:10 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE211B.dwg

APPL. No. A 00-123456



1 FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

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FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
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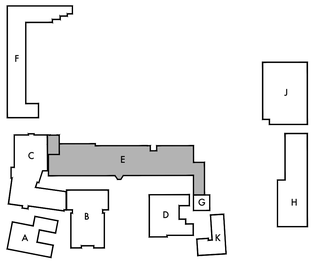

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KEY PLAN

DSA Stamp

Architect

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Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
NOVARO M. TIGRANIAN
NO. C-26029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

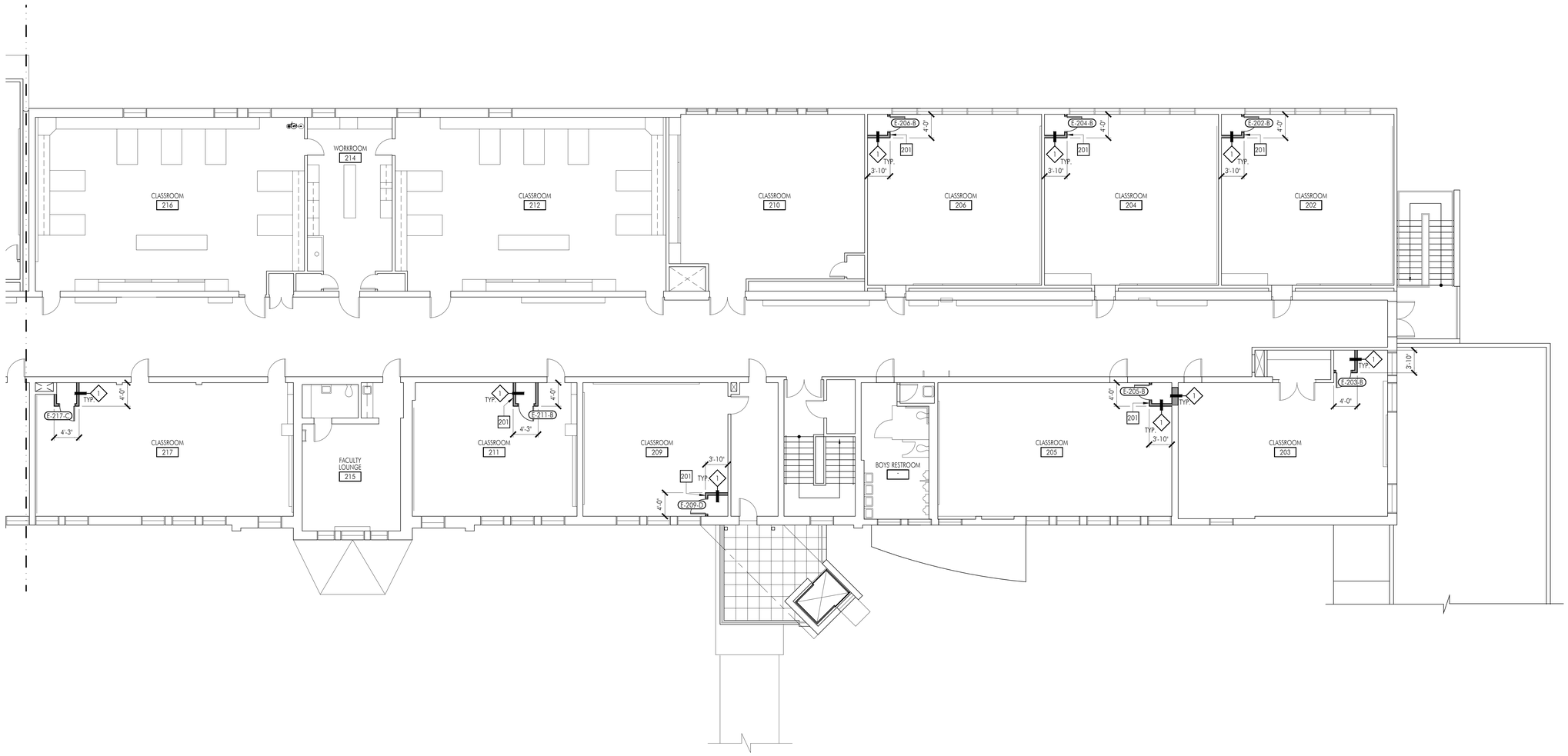
Building 'E Second Floor Plan

Sheet Number

AE212A

Plot Date: 11/27/2019 12:16:14 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE212A.dwg

APPL. No. A 00-123456



1 FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

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FLOOR PLAN LEGEND

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	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
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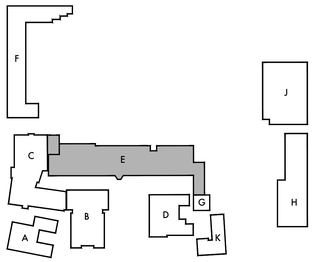

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KEY PLAN

DSA Stamp

Architect

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Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. RISBERGER
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

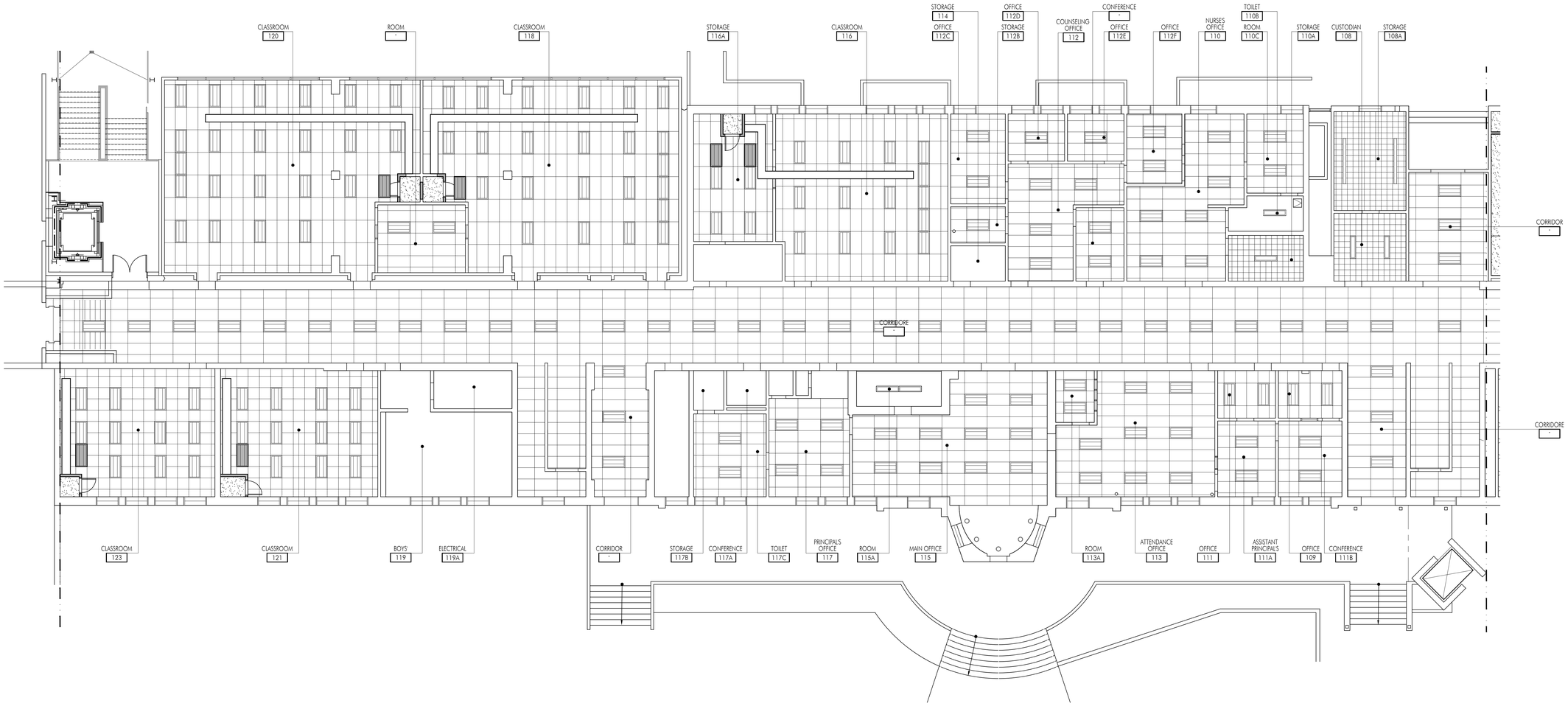
Building 'E Second Floor Plan

Sheet Number

AE212B

Plot Date: 11/27/2019 12:16:18 PM Login: Rudy Monico Last Save By: rmonico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE212B.dwg

APPL. No. A 00-123456



1 REFLECTED CEILING PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

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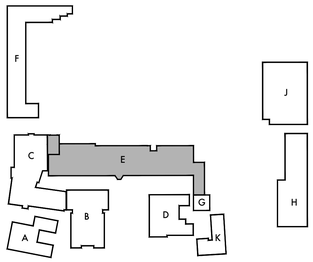
KEYNOTES

NO.	DESCRIPTION
320	EXISTING MECHANICAL DUCT TO REMAIN, PROTECT IN PLACE TO BE REUSED AND CONNECT TO NEW EQUIPMENT. SEE MECHANICAL FOR ADDITIONAL INFORMATION.

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION
	RELOCATED LIGHT FIXTURE. SEE ELECTRICAL FOR MORE INFORMATION.
	FRAMED GYPSUM BOARD CEILING SEE X/XXX FOR ADDITIONAL INFORMATION AND REFERENCED DETAIL ON PLAN FOR SOFFIT CONDITIONS AS OCCURS. PAINT P-1
	AIR SUPPLY REGISTER
	RETURN AIR GRILLE



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KEY PLAN

DSA Stamp

Architect

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Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

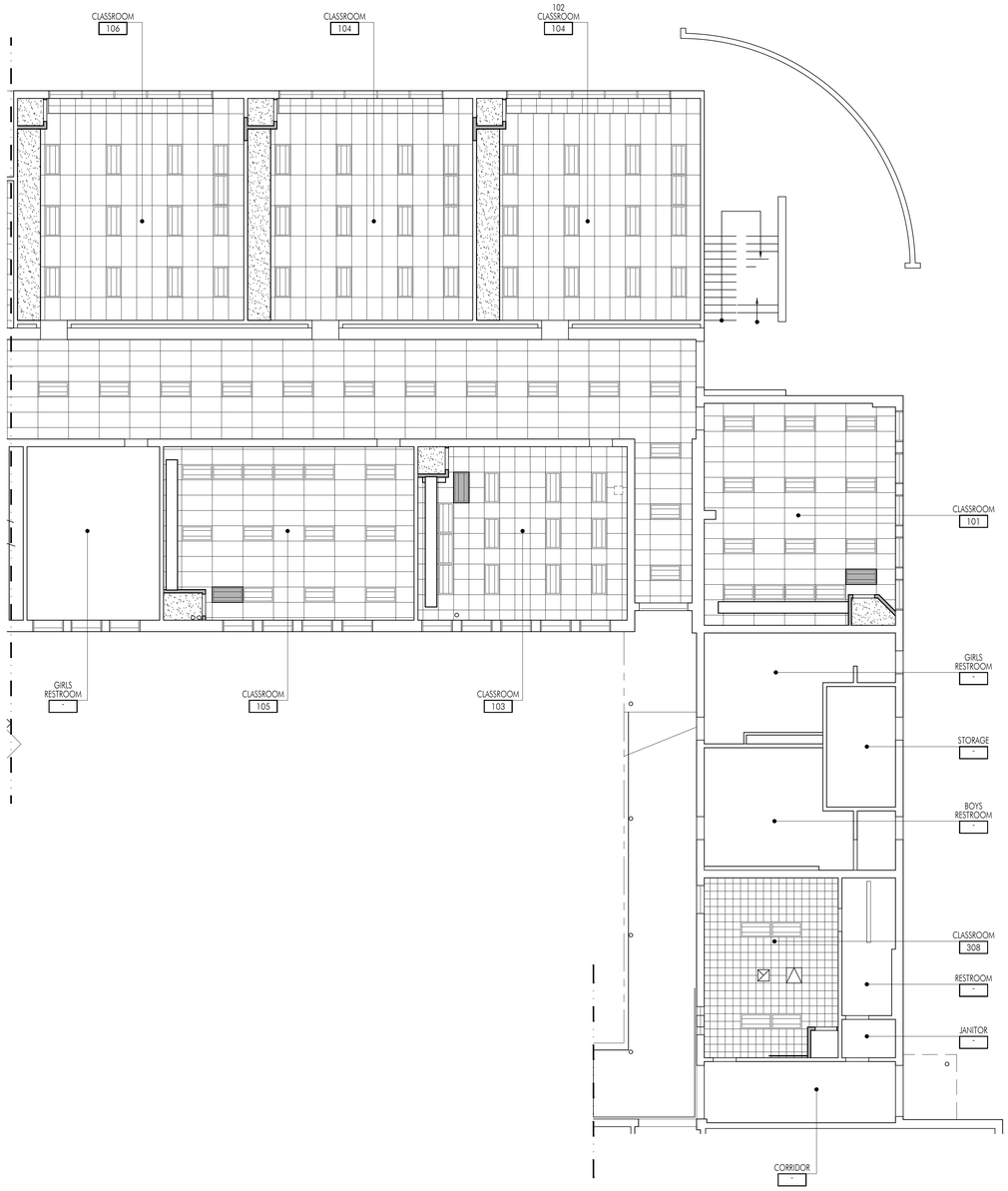
LICENSED ARCHITECT
RICHARD M. RIGNEY
NO. C-26029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Building 'E First Floor Reflected Ceiling Plan

Sheet Number
AE231A

Plot Date: 11/27/2019 12:16:23 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE231A.dwg



1 REFLECTED CILING PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

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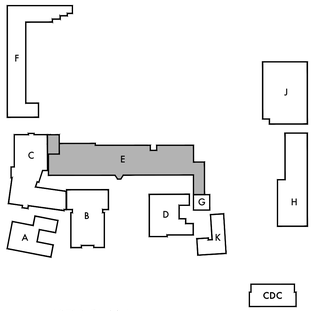
	AIR SUPPLY REGISTER
	RETURN AIR GRILLE



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

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PARTNERS
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Culver City, CA 90232
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LICENSED ARCHITECT
GEORGE M. RACHLIN
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

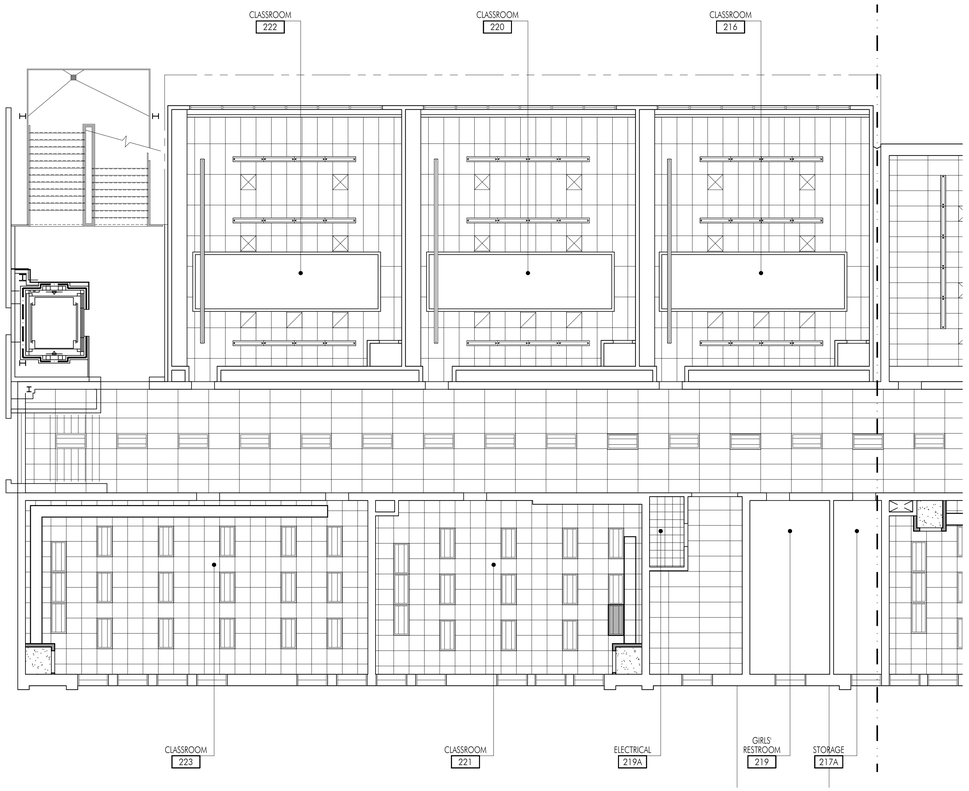
Building 'E First Floor Reflected Ceiling Plan

Sheet Number

AE231B

Plot Date: 11/27/2019 12:16:27 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE231B.dwg

APPL. No. A 00-123456



1 REFLECTED CEILING PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

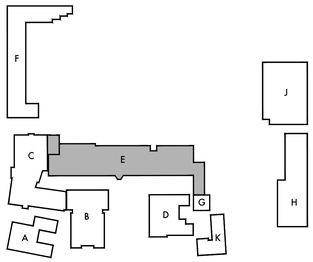
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
320	EXISTING MECHANICAL DUCT TO REMAIN, PROTECT IN PLACE TO BE REUSED AND CONNECT TO NEW EQUIPMENT. SEE MECHANICAL FOR ADDITIONAL INFORMATION.

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION
	RELOCATED LIGHT FIXTURE. SEE ELECTRICAL FOR MORE INFORMATION.
	FRAMED GYPSUM BOARD CEILING SEE X/XXX FOR ADDITIONAL INFORMATION AND REFERENCED DETAIL ON PLAN FOR SOFFIT CONDITIONS AS OCCURS. PAINT P-1
	AIR SUPPLY REGISTER
	RETURN AIR GRILLE
	EXHAUST GRILLE



KEY PLAN

CDC

DSA Stamp

Architect

RACHLIN PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. THOMPSON
NO. C-28229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

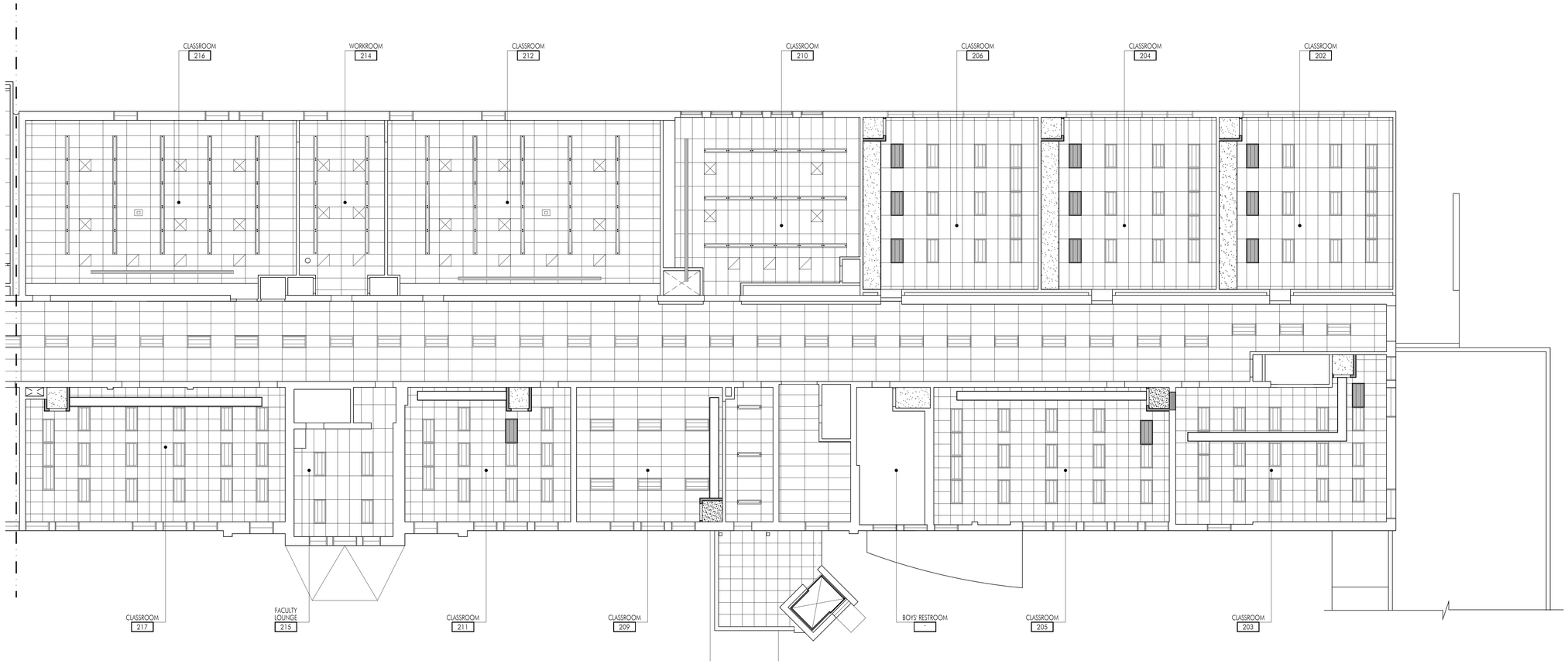
Building 'E Second Floor Reflected Ceiling Plan

Sheet Number

AE232A

Plot Date: 11/27/2019 12:16:32 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE232A.dwg

APPL. No. A 00-123456



1 REFLECTED CEILING PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
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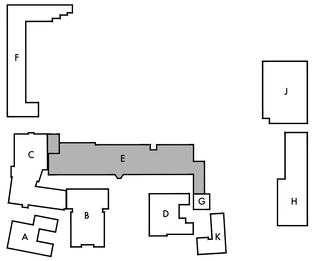
KEYNOTES

NO.	DESCRIPTION
320	EXISTING MECHANICAL DUCT TO REMAIN, PROTECT IN PLACE TO BE REUSED AND CONNECT TO NEW EQUIPMENT. SEE MECHANICAL FOR ADDITIONAL INFORMATION.

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION
	RELOCATED LIGHT FIXTURE. SEE ELECTRICAL FOR MORE INFORMATION.
	FRAMED GYPSUM BOARD CEILING SEE X/XXX FOR ADDITIONAL INFORMATION AND REFERENCED DETAIL ON PLAN FOR SOFFIT CONDITIONS AS OCCURS. PAINT P-1
	AIR SUPPLY REGISTER
	RETURN AIR GRILLE



CDC

KEY PLAN

DSA Stamp

Architect

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310.204.3400

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. RINGSTROM
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

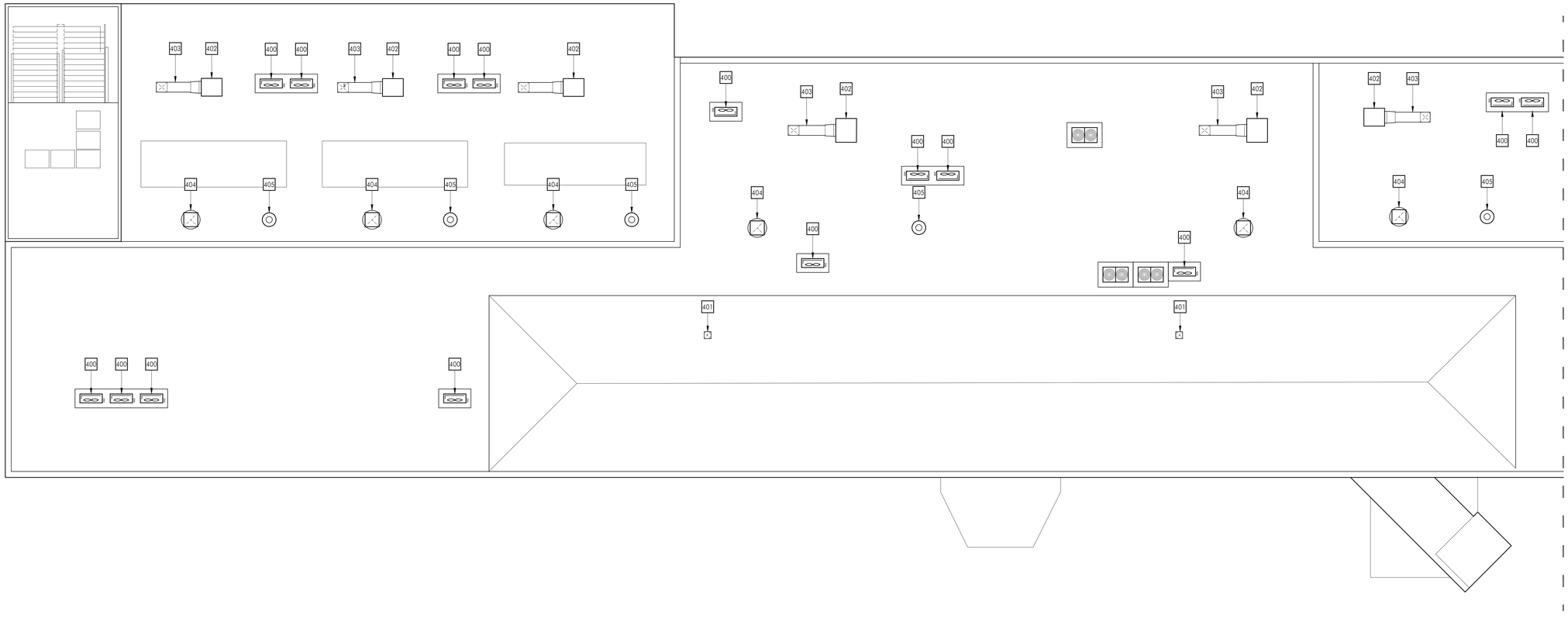
Consultants

Sheet Title
Building 'E Second Floor Reflected Ceiling Plan

Sheet Number
AE232B

Plot Date: 11/27/2019 12:16:37 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE232B.dwg

APPL. No. A 00-123456



1 DEMOLITION FLOOR PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
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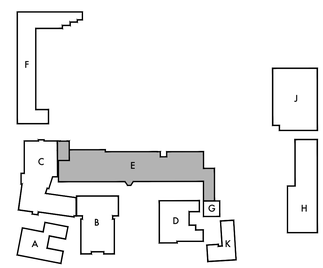
KEYNOTES

NO.	DESCRIPTION
400	ROOF MOUNTED MECHANICAL CONDENSER UNIT ON WOOD PAD. SEE PLAN FOR ROUGH DIMENSIONS, ADJUST PAD SIZE FOR NUMBER OF CONDENSERS AND REQUIRED CLEARANCES. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
401	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
402	ROOF MOUNTED MECHANICAL UNIT. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
403	ROOF MOUNTED MECHANICAL DUCT. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
404	ROOF MOUNTED EXHAUST FAN. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
405	ROOF MOUNTED GRAVITY INTAKE. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.



KEY PLAN

DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. THOMPSON
NO. C-28229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

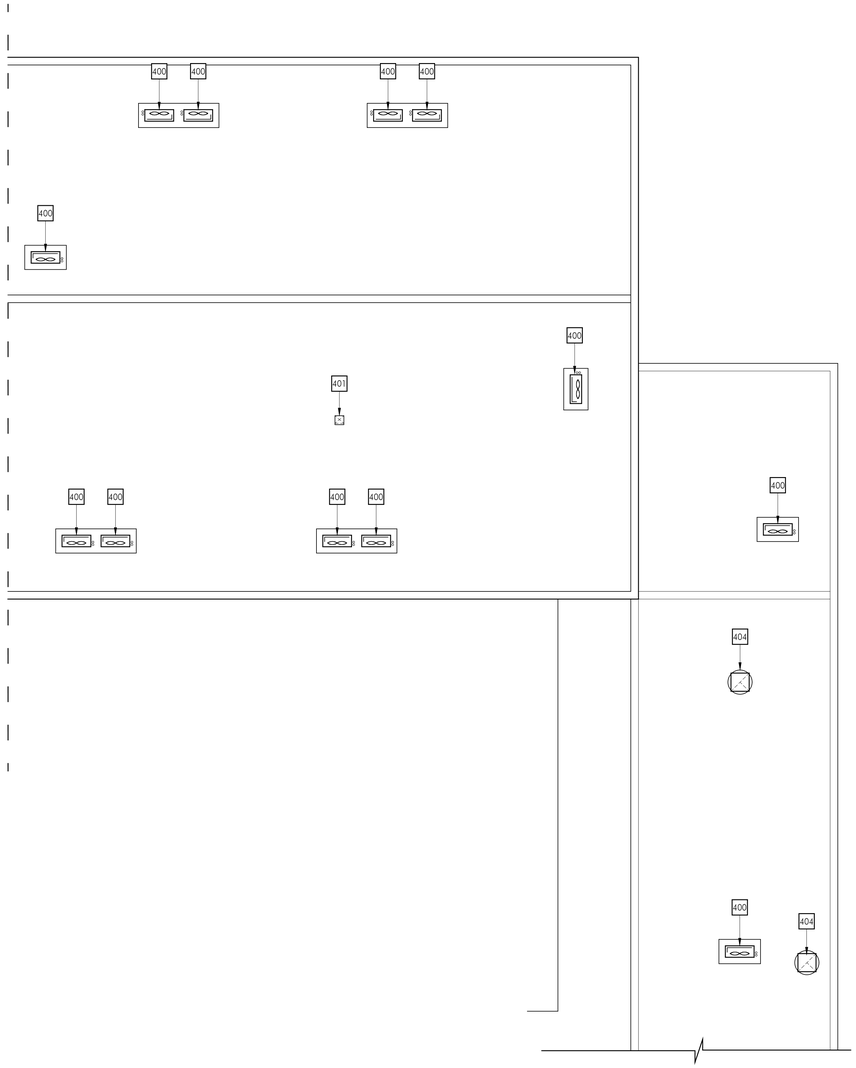
Building 'E' Roof Plan

Sheet Number

AE241A

Plot Date: 11/27/2019 12:16:41 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE241A.dwg

APPL. No. A 00-123456



1 DEMOLITION FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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KEYNOTES

NO.	DESCRIPTION
400	ROOF MOUNTED MECHANICAL CONDENSER UNIT ON WOOD PAD. SEE PLAN FOR ROUGH DIMENSIONS, ADJUST PAD SIZE FOR NUMBER OF CONDENSERS AND REQUIRED CLEARANCES. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
401	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
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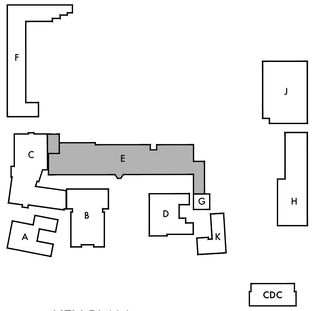
403	ROOF MOUNTED MECHANICAL DUCT. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
404	ROOF MOUNTED EXHAUST FAN. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
405	ROOF MOUNTED GRAVITY INTAKE. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.



KEY PLAN

DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

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Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

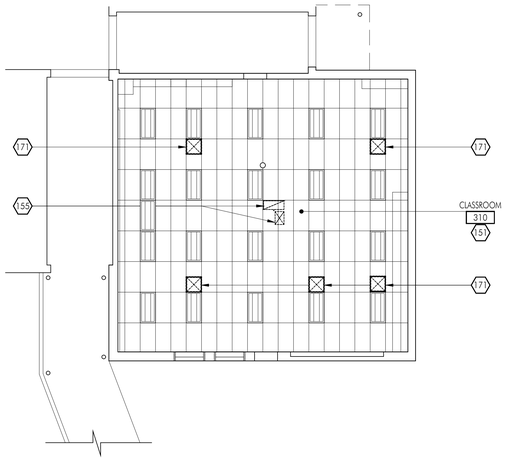
LICENSED ARCHITECT
RICHARD M. INGBRIGT
NO. C-26029
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Building 'E' Roof Plan

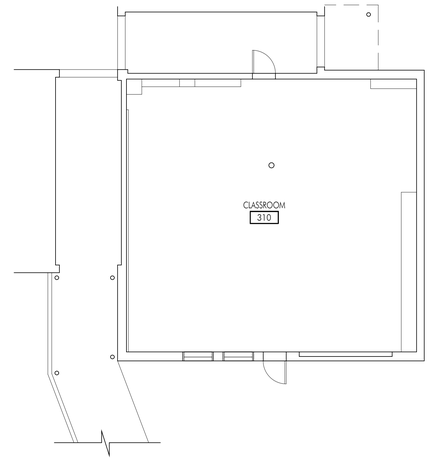
Sheet Number
AE241B

Plot Date: 11/27/2019 12:16:45 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AE241B.dwg



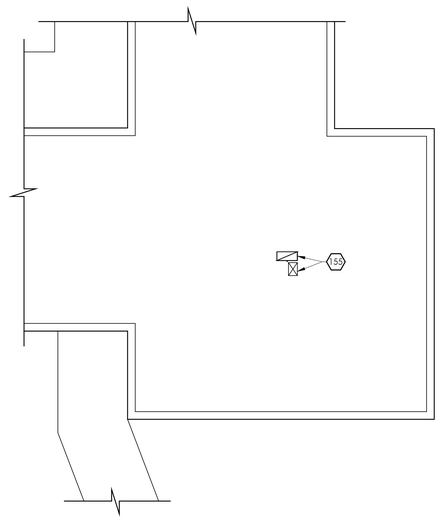
2 DEMOLITION REFLECTED CEILING PLAN

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



1 DEMOLITION FLOOR PLAN

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



3 DEMOLITION FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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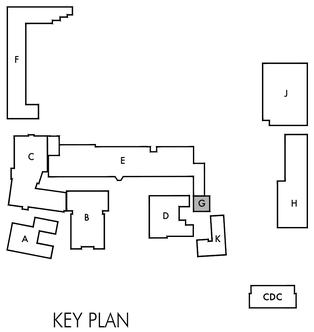
DEMOLITION KEYNOTES

NO.	DESCRIPTION
151	REMOVE PORTION OF (E) CEILING AS REQUIRED FOR INSTALLATION OF NEW DUCTWORK, AND UTILITIES AS OCCURS ABOVE CEILING. REPLACE CEILING TILES, PATCH, REPAIR AND PAINT AT ALL REMOVALS TO MATCH EXISTING ADJACENT.
155	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
171	REMOVE EXISTING MECHANICAL REGISTER AND ALL ASSOCIATED ITEMS. PROTECT EXISTING CEILING IN PLACE AND PREPARE FOR NEW WORK. PATCH AND REPARE AT REMOVAL AND PROVIDE NEW CEILING TILE TO MATCH EXISTING ADJACENT.SEE MECHANICAL FOR ADDITIONAL INFORMATION.

DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	(E) DOOR TO REMAIN. SAND, CLEAN AND PATCH DOOR IN PREPARATION FOR NEW FINISHES.
	REMOVE EXISTING DOOR AND APPURTENANCES. PROTECT EXISTING FRAME IN PLACE U.N.O. CLEAN AND PATCH FRAME IN PREPARATION FOR NEW FINISHES AND DOOR HARDWARE.
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	REMOVE EXISTING LIGHT AND APPURTENANCES. SEE ELECTRICAL FOR MORE INFORMATION
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

RACHLIN
PARTNERS
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Culver City, CA 90232
310.204.3400

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Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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LICENSED ARCHITECT
GEORGE M. THOMPSON
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

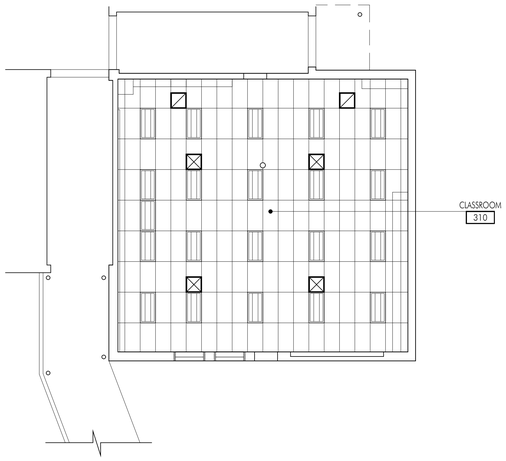
Sheet Title

Building 'G'
Demolition Floor,
Reflected Ceiling and
Roof Plans

Sheet Number

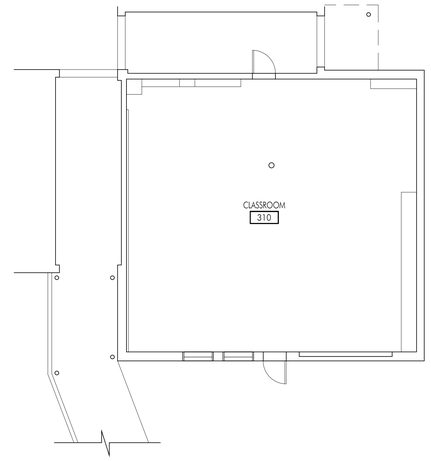
AG201

Plot Date: 11/27/2019 12:16:50 PM Last Save By: dhamilton Login: Rudy Manrico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD LMS-AG201.dwg



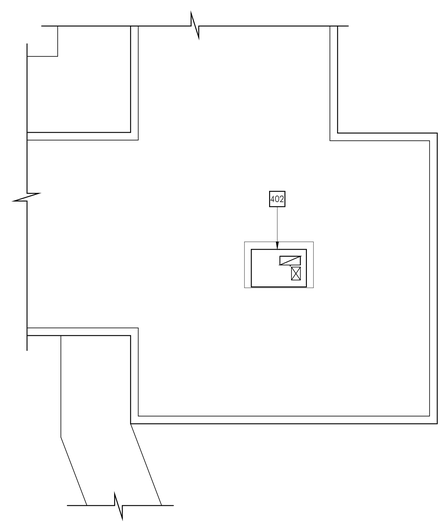
2 REFLECTED CEILING PLAN

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



1 FLOOR PLAN

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



3 ROOF PLAN

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

FLOOR PLAN GENERAL NOTES

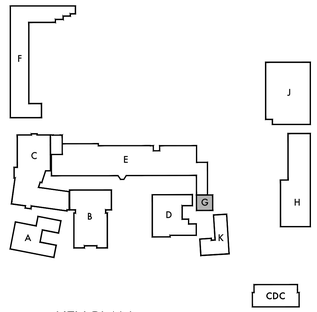
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
402	ROOF MOUNTED MECHANICAL UNIT. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
A-100-A	NEW DOOR AND FRAME. SEE DOOR SCHEDULE ON A611 FOR MORE INFORMATION
1	WALL TYPE. SEE A711 FOR MORE INFORMATION.
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION
	RELOCATED LIGHT FIXTURE. SEE ELECTRICAL FOR MORE INFORMATION.
	FRAMED GYPSUM BOARD CEILING SEE X/XXX FOR ADDITIONAL INFORMATION AND REFERENCED DETAIL ON PLAN FOR SOFFIT CONDITIONS AS OCCURS. PAINT P-1
	AIR SUPPLY REGISTER
	RETURN AIR GRILLE
	EXHAUST GRILLE



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

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Culver City, CA 90232
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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. RISHWAIN
NO. C-28229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

Building 'G' Floor, Reflected Ceiling and Roof Plans

Sheet Number

AG211

Plot Date: 11/27/2019 12:16:54 PM Last Save By: dltomilson Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AG211.dwg

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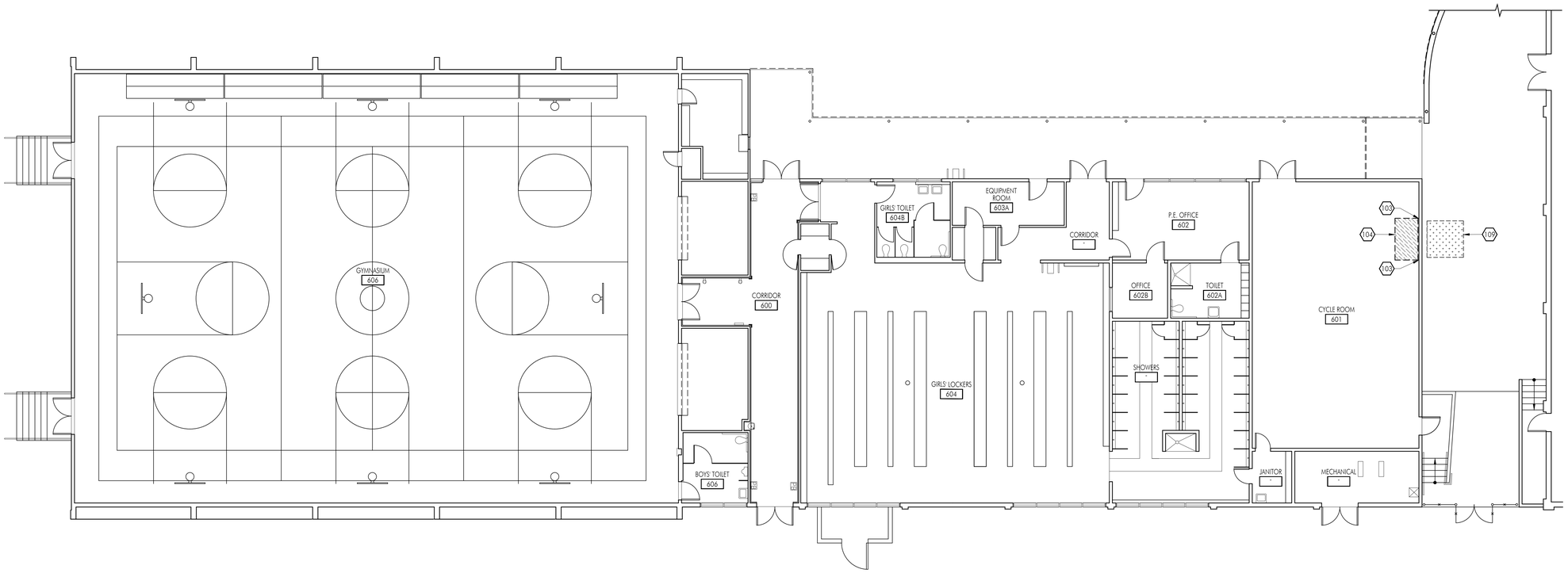


1 DEMOLITION FLOOR PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

DEMOLITION KEYNOTES

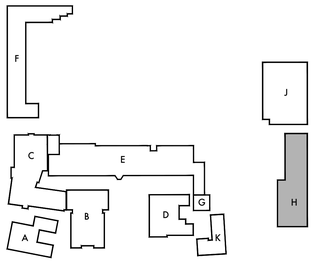
NO.	DESCRIPTION
101	REMOVE EXISTING DOOR AND FRAME. PATCH AND REPAIR ADJACENT WALL AND FLOOR AT REMOVAL AND PREPARE ADJACENT WALL AND FLOOR SURFACES FOR NEW WORK.
102	REMOVE INDICATED PORTION OF EXISTING WALL OR PARTITION. PROTECT ADJACENT UNAFFECTED FINISHES, PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
103	REMOVE EXISTING INTERIOR WALL FINISHES (INCLUDING BUT NOT LIMITED TO [SINGULARLY OR IN ANY COMBINATION] PLASTER, GYPSUM BOARD, ACOUSTIC TILE, TACKABLE SURFACE ETC.) DOWN TO STUDS (OR STRUCTURE AS OCCURS) IN PREPARATION FOR INSTALLATION OF NEW WALL AND FINISHES. PROTECT ADJACENT UNAFFECTED FINISHES, PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
104	REMOVE PORTION OF EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL CLOSET FRAMING AND EQUIPMENT. PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
105	REMOVE PORTION OF EXISTING TACK BOARD (OR MARKER BOARD AS OCCURS) AS REQUIRED FOR INSTALLATION NEW WORK. TACK BOARD SHALL BE CUT IN A STRAIGHT LINE. PROTECT REMAINING TACK BOARD IN PLACE AND PROVIDE NEW TRIM TO MATCH EXISTING TRIM AT CUT EDGE.
106	REMOVE AND PROTECT EXISTING TACK BOARD (OR WHITE BOARD AS OCCURS) FOR RELOCATION IN SAME ROOM. SEE FLOOR PLAN FOR NEW LOCATION. TURN OVER TO DISTRICT WHERE NO NEW LOCATION IS AVAILABLE.
107	REMOVE EXISTING CONTROL CABINET AND ALL ASSOCIATED ITEMS INCLUDING CONDUIT AND. PROTECT EXISTING CONTROL CABINET FOR RELOCATION IN SAME ROOM AS SHOWN ON PLAN. REROUTE ALL EXISTING POWER AND DATA TO NEW LOCATION. SEE ELECTRICAL FOR MORE INFORMATION.
108	REMOVE INDICATED PORTION OF EXISTING WALL AT AN ELEVATION OF +10'-6" IN PREPARATION FOR NEW DUCT PENETRATION AND MECHANICAL REGISTER. SEE MECHANICAL FOR ADDITIONAL INFORMATION. (REVIEW LOCATION

DEMOLITION KEYNOTES

NO.	DESCRIPTION
120	REMOVE EXISTING MECHANICAL EQUIPMENT AND APPURTENANCES. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
121	EXISTING MECHANICAL SOFFIT TO BE REUSED. REMOVE PORTIONS OF EXISTING PLASTER OR GYPSUM BOARD FINISH AS REQUIRED TO PERFORM NEW WORK. PATCH AND REPAIR AT REMOVAL TO MATCH EXISTING ADJACENT FINISH.
122	PROTECT EXISTING DUCT IN PLACE TO BE REUSED. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
123	REMOVE EXISTING RADIATOR AND ALL ASSOCIATED PIPING. SEE MECHANICAL FOR ADDITIONAL INFORMATION. PATCH AND REPAIR AT REMOVAL TO MATCH EXISTING ADJACENT FINISH.
124	REMOVE EXISTING WALL MOUNTED MECHANICAL REGISTER AND ALL ASSOCIATED ITEMS. PREPARE EXISTING **OPENING FOR NEW REGISTER AND DUCT AT SAME LOCATION. SEE MECHANICAL FOR ADDITIONAL INFORMATION.**

DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	(E) DOOR TO REMAIN. SAND, CLEAN AND PATCH DOOR IN PREPARATION FOR NEW FINISHES.
	REMOVE EXISTING DOOR AND APPURTENANCES. PROTECT EXISTING FRAME IN PLACE U.N.O. CLEAN AND PATCH FRAME IN PREPARATION FOR NEW FINISHES AND DOOR HARDWARE.



CDC

KEY PLAN

DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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1	11.27.19	50% CD's

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Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. THOMPSON
NO. C-28229
REN. 2-28-21
STATE OF CALIFORNIA

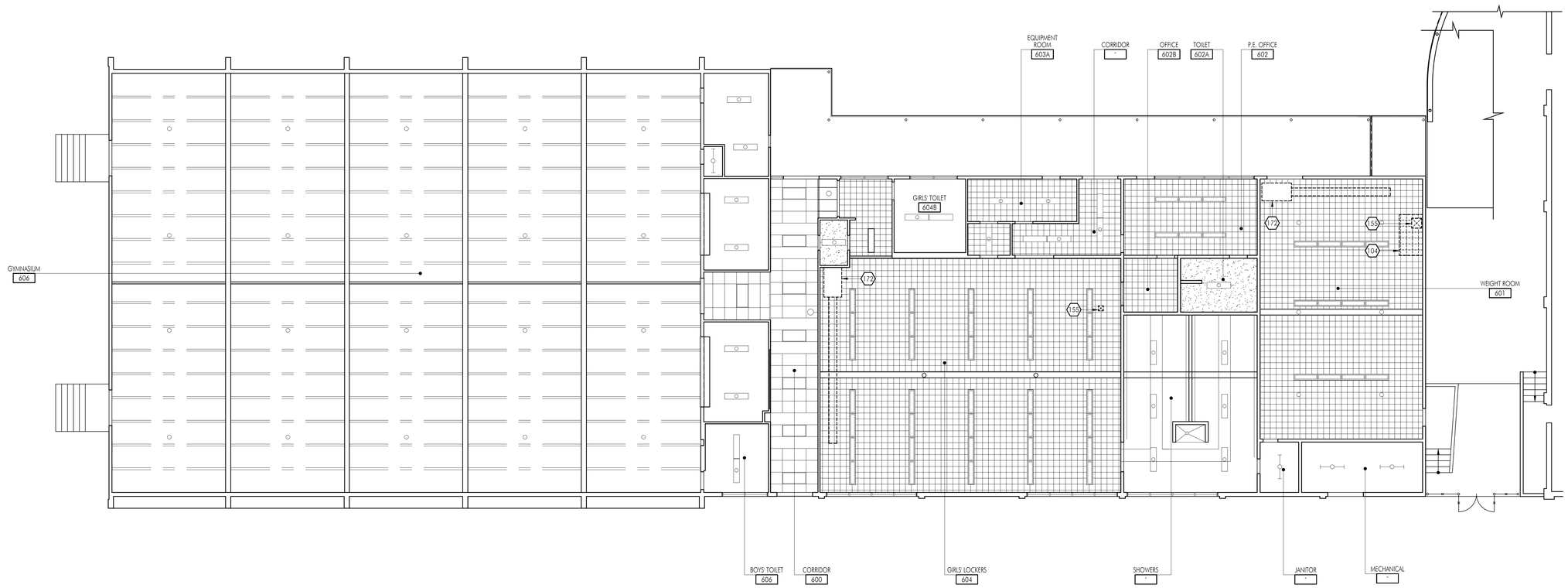
Consultants

Sheet Title
Building 'H'
Demolition Floor Plan

Sheet Number
AH201

Plot Date: 11/27/2019 12:16:59 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AH201.dwg

APPL. No. A 00-123456



1 DEMOLITION RFLEECTED CEILING PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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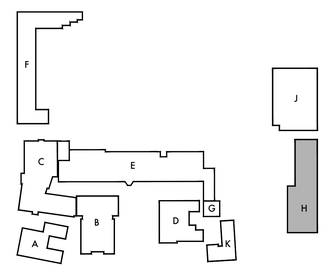
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

DEMOLITION KEYNOTES

NO.	DESCRIPTION
151	REMOVE PORTION OF (E) CEILING AS REQUIRED FOR INSTALLATION OF NEW DUCTWORK, AND UTILITIES AS OCCURS ABOVE CEILING. REPLACE CEILING TILES, PATCH, REPAIR AND PAINT AT ALL REMOVALS TO MATCH EXISTING ADJACENT.
152	REMOVE PORTION OF (E) CEILING TILES AND SUSPENDED T-BAR SYSTEM IN PREPARATION OF NEW SOFFIT. PROTECT EXISTING ADJACENT CEILING AND MODIFY AS REQUIRED FOR TRANSITION TO NEW WORK AND FINISHES.
153	REMOVE PORTION OF (E) CEILING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL CLOSET, MECHANICAL EQUIPMENT AND ALL ASSOCIATED DUCTWORK AND APPURTENANCES. PATCH REPAIR AND PAINT AT ALL REMOVALS TO MATCH EXISTING ADJACENT FINISHES AND IN PREPARATION FOR NEW WORK.
154	EXISTING MECHANICAL DUCT TO REMAIN, PROTECT IN PLACE TO BE REUSED AND CONNECT TO NEW EQUIPMENT. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
155	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
156	REMOVE PORTION OF (E) CEILING TILES AND SUSPENDED T-BAR SYSTEM IN PREPARATION OF NEW MECHANICAL UNIT, DUCT OR REGISTER. PROTECT EXISTING ADJACENT CEILING AND MODIFY AS REQUIRED FOR TRANSITION TO NEW WORK AND FINISHES. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
157	REMOVE PORTION OF (E) GYPSUM BOARD OR PLASTER CEILING IN PREPARATION OF NEW MECHANICAL EQUIPMENT. PROTECT EXISTING ADJACENT CEILING AND MODIFY AS REQUIRED FOR TRANSITION TO NEW WORK AND FINISHES. SEE MECHANICAL FOR ADDITIONAL INFORMATION.

DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	REMOVE EXISTING LIGHT AND APPURTENANCES. SEE ELECTRICAL FOR MORE INFORMATION
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION



KEY PLAN

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DSA Stamp

Architect

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Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. TRONSTAD
NO. C-28229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title
Building 'H' Demolition Reflected Ceiling Plan

Sheet Number
AH202

Plot Date: 11/27/2019 12:17:05 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AH202.dwg

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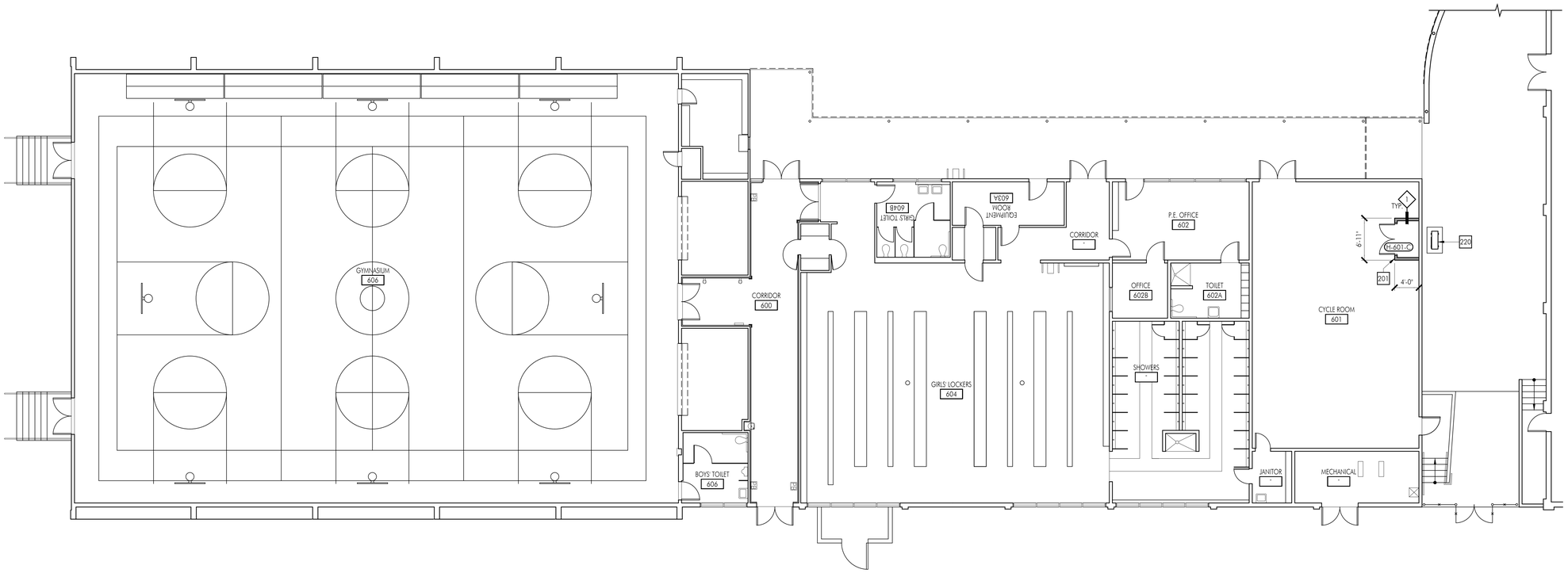


1 FLOOR PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

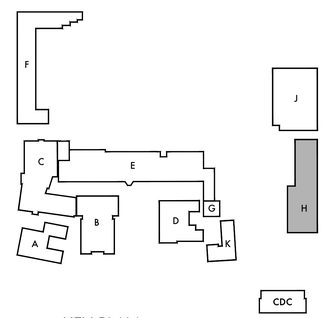
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
201	MECHANICAL CLOSET SEE WALL TYPE AS REFERENCED AND PLAN FOR DIMENSIONS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION
220	MECHANICAL CONDENSER UNIT ON CONCRETE PAD. PROVIDE CONCRETE PAD AS REQUIRED FOR NUMBER OF CONDENSER UNITS AT EACH LOCATION. SEE MECHANICAL AND DETAIL X/A811 FOR ADDITIONAL INFORMATION.

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
A-100-A	NEW DOOR AND FRAME. SEE DOOR SCHEDULE ON A611 FOR MORE INFORMATION
1	WALL TYPE. SEE A711 FOR MORE INFORMATION.



KEY PLAN

Date: 11.27.2019
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Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. THOMPSON
NO. C-28229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

Building 'H' Floor Plan

Sheet Number

AH211

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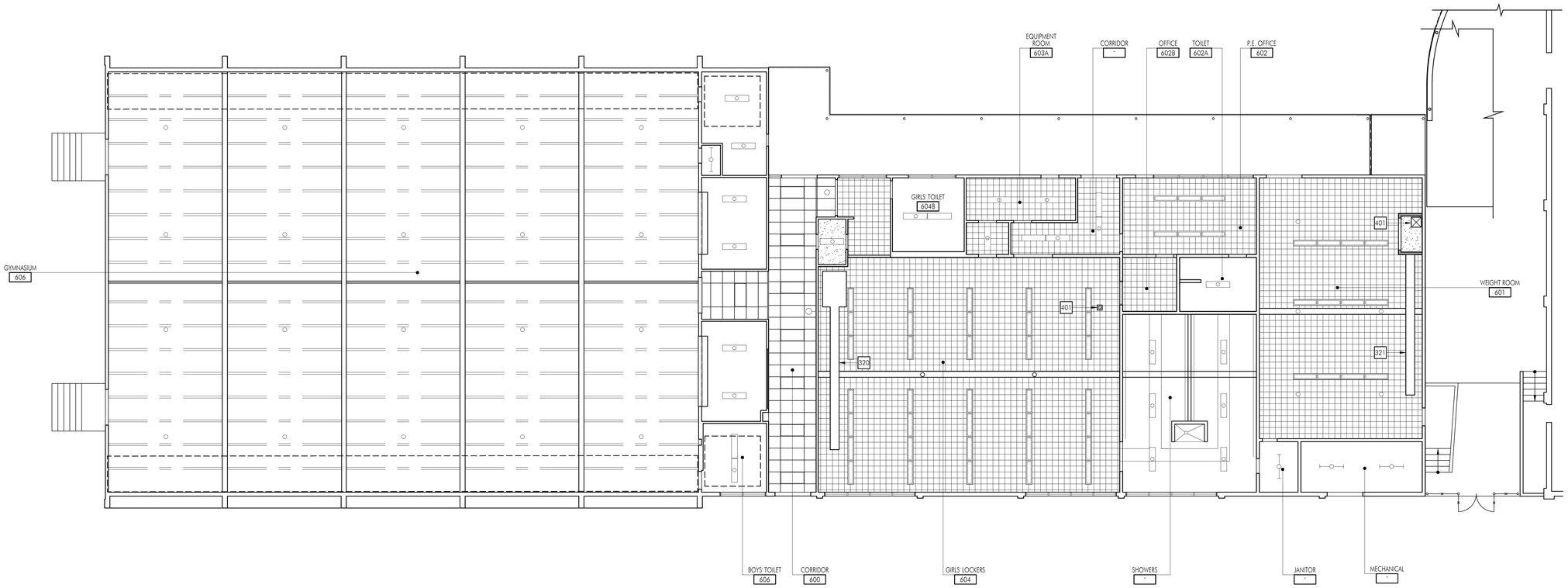

1 RFLEECTED CEILING PLAN

NORTH

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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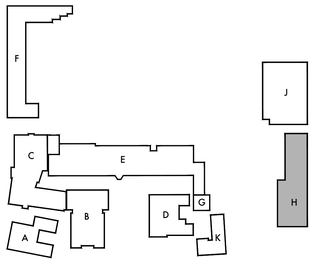
KEYNOTES

NO.	DESCRIPTION
320	EXISTING MECHANICAL DUCT TO REMAIN, PROTECT IN PLACE TO BE REUSED AND CONNECT TO NEW EQUIPMENT. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
321	EXPOSED DUCT. SEE MECHANICAL FOR MORE INFORMATION.
401	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION
	RELOCATED LIGHT FIXTURE. SEE ELECTRICAL FOR MORE INFORMATION.
	FRAMED GYPSUM BOARD CEILING SEE X/XXX FOR ADDITIONAL INFORMATION AND REFERENCED DETAIL ON PLAN FOR SOFFIT CONDITIONS AS OCCURS. PAINT P-1
	AIR SUPPLY REGISTER
	RETURN AIR GRILLE
	EXHAUST GRILLE



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Consultants

Sheet Title

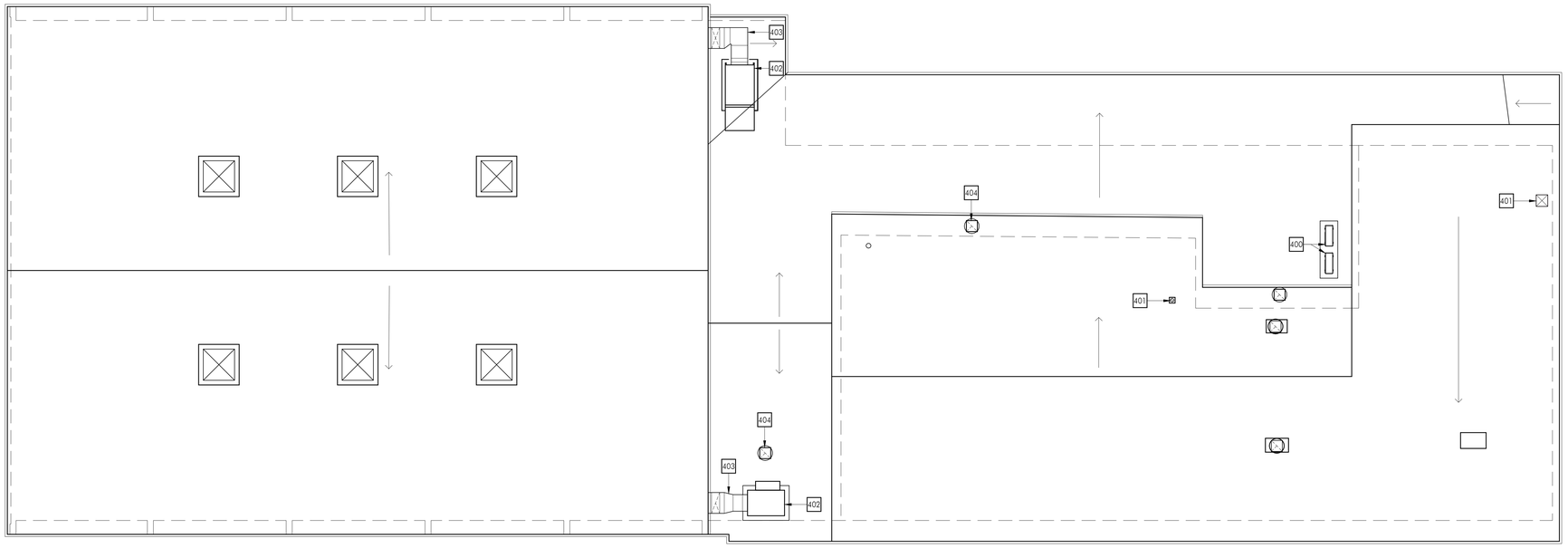
Building 'H' Reflected Ceiling Plan

Sheet Number

AH231

Plot Date: 11/27/2019 12:17:13 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AH231.dwg

APPL. No. A 00-123456



1 ROOF PLAN

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

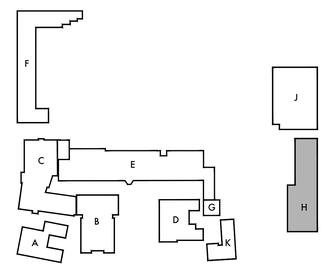
NORTH

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

KEYNOTES

NO.	DESCRIPTION
400	ROOF MOUNTED MECHANICAL CONDENSER UNIT ON WOOD PAD. SEE PLAN FOR ROUGH DIMENSIONS, ADJUST PAD SIZE FOR NUMBER OF CONDENSERS AND REQUIRED CLEARANCES. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
401	MECHANICAL DUCT PENETRATION AT EXISTING ROOF. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
402	ROOF MOUNTED MECHANICAL UNIT. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
403	ROOF MOUNTED MECHANICAL DUCT. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.
404	ROOF MOUNTED EXHAUST FAN. SEE MECHANICAL AND DETAIL X/A831 FOR ADDITIONAL INFORMATION.



KEY PLAN

DSA Stamp

Architect

RACHLIN
PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. RISHOFSKY
NO. C-28229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

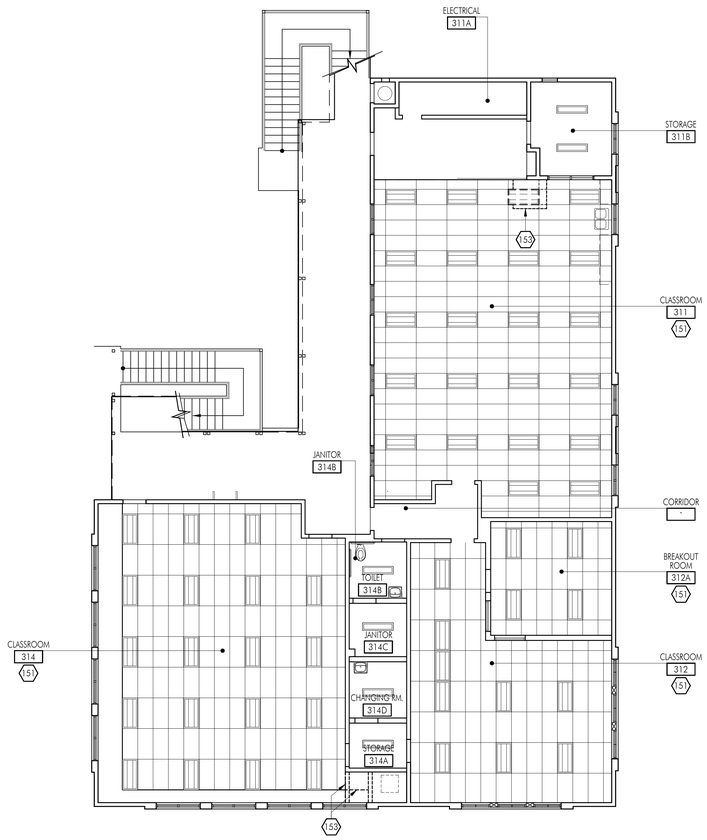
Sheet Title

Building 'H' Roof Plan

Sheet Number

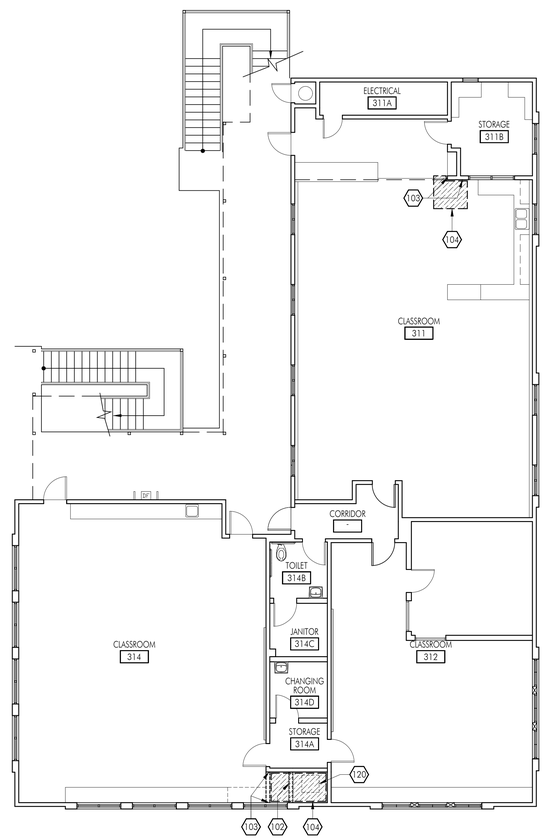
AH241

Plot Date: 11/27/2019 12:17:18 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architectural\SMMUSD-LMS-AH241.dwg



2 DEMOLITION REFLECTED CEILING PLAN

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



1 DEMOLITION FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

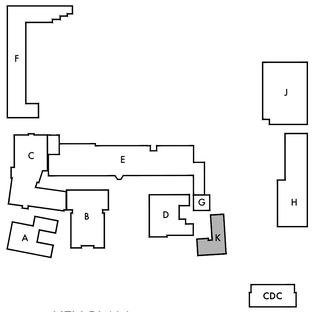
1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
2. REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM DRAWINGS FOR ADDITIONAL SCOPE OF WORK IN EACH ROOM.
3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
4. UNSCHEDULED CUTTING, REMOVING OR TRIMMING OF EXISTING CONCRETE, MASONRY OR WOOD FRAMED WALLS IS NOT PERMITTED. UNLESS NOTED OTHERWISE ALL DOORS SHALL BE FITTED WITHIN EXISTING WALL OPENINGS WITHOUT ENLARGING OR TRIMMING HEAD OR JAMBS.

DEMOLITION KEYNOTES

NO.	DESCRIPTION
102	REMOVE INDICATED PORTION OF EXISTING WALL OR PARTITION. PROTECT ADJACENT UNAFFECTED FINISHES, PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
103	REMOVE EXISTING INTERIOR WALL FINISHES (INCLUDING BUT NOT LIMITED TO [SINGULARLY OR IN ANY COMBINATION] PLASTER, GYPSUM BOARD, ACOUSTIC TILE, TACKABLE SURFACE ETC.) DOWN TO STUDS (OR STRUCTURE AS OCCURS) IN PREPARATION FOR INSTALLATION OF NEW WALL AND FINISHES. PROTECT ADJACENT UNAFFECTED FINISHES, PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
104	REMOVE PORTION OF EXISTING FLOOR AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL CLOSET FRAMING AND EQUIPMENT. PATCH AND REPAIR AT REMOVAL AND PREPARE ADJACENT SURFACES FOR NEW WORK.
120	REMOVE EXISTING MECHANICAL EQUIPMENT AND APPURTENANCES. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
151	REMOVE PORTION OF (E) CEILING AS REQUIRED FOR INSTALLATION OF NEW DUCTWORK, AND UTILITIES AS OCCURS ABOVE CEILING. REPLACE CEILING TILES, PATCH, REPAIR AND PAINT AT ALL REMOVALS TO MATCH EXISTING ADJACENT.
152	REMOVE PORTION OF (E) CEILING AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL CLOSET, MECHANICAL EQUIPMENT AND ALL ASSOCIATED DUCTWORK AND APPURTENANCES. PATCH REPAIR AND PAINT AT ALL REMOVALS TO MATCH EXISTING ADJACENT FINISHES AND IN PREPARATION FOR NEW WORK.

DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	(E) DOOR TO REMAIN. SAND, CLEAN AND PATCH DOOR IN PREPARATION FOR NEW FINISHES.
	REMOVE EXISTING DOOR AND APPURTENANCES. PROTECT EXISTING FRAME IN PLACE U.N.O. CLEAN AND PATCH FRAME IN PREPARATION FOR NEW FINISHES AND DOOR HARDWARE.
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	REMOVE EXISTING LIGHT AND APPURTENANCES. SEE ELECTRICAL FOR MORE INFORMATION
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

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Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. TRONSGARD
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

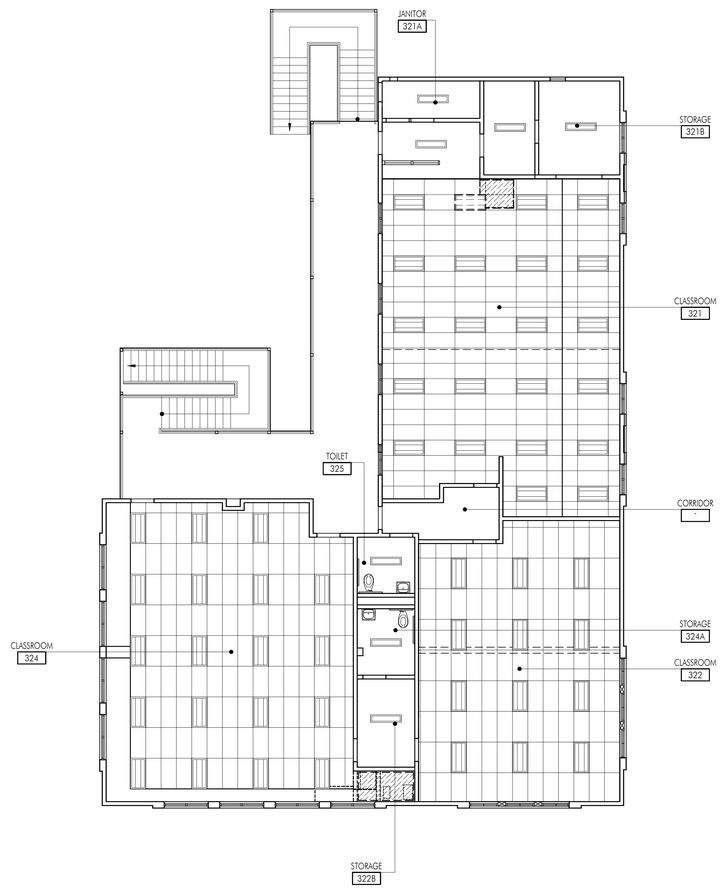
Sheet Title

Building 'K' First Floor Demolition Plan and Demolition Reflected Ceiling Plan

Sheet Number

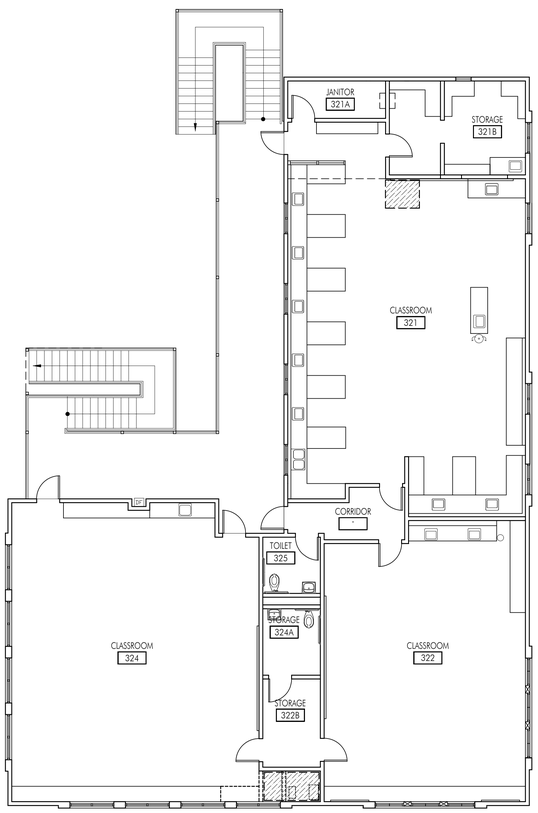
AK201

Plot Date: 11/27/2019 12:17:23 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AK201.dwg



2 DEMOLITION REFLECTED CEILING PLAN

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



1 DEMOLITION FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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DEMOLITION KEYNOTES

NO.	DESCRIPTION
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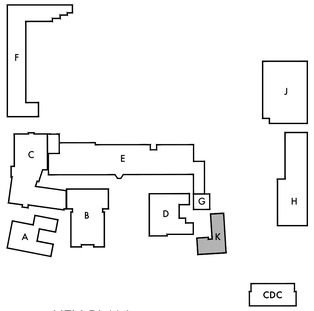
DEMOLITION FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) STUD WALL OR PARTITION TO REMAIN.
	(E) STUD WALL OR PARTITION TO BE REMOVED.
	(E) DOOR TO REMAIN. SAND, CLEAN AND PATCH DOOR IN PREPARATION FOR NEW FINISHES.
	REMOVE EXISTING DOOR AND APPURTENANCES. PROTECT EXISTING FRAME IN PLACE U.N.O. CLEAN AND PATCH FRAME IN PREPARATION FOR NEW FINISHES AND DOOR HARDWARE.
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	REMOVE EXISTING LIGHT AND APPURTENANCES. SEE ELECTRICAL FOR MORE INFORMATION
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION



KEY PLAN

APPL. No. A 00-123456

DSA Stamp

Architect

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310.204.3400

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Santa Monica, California 90403

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Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. THOMPSON
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

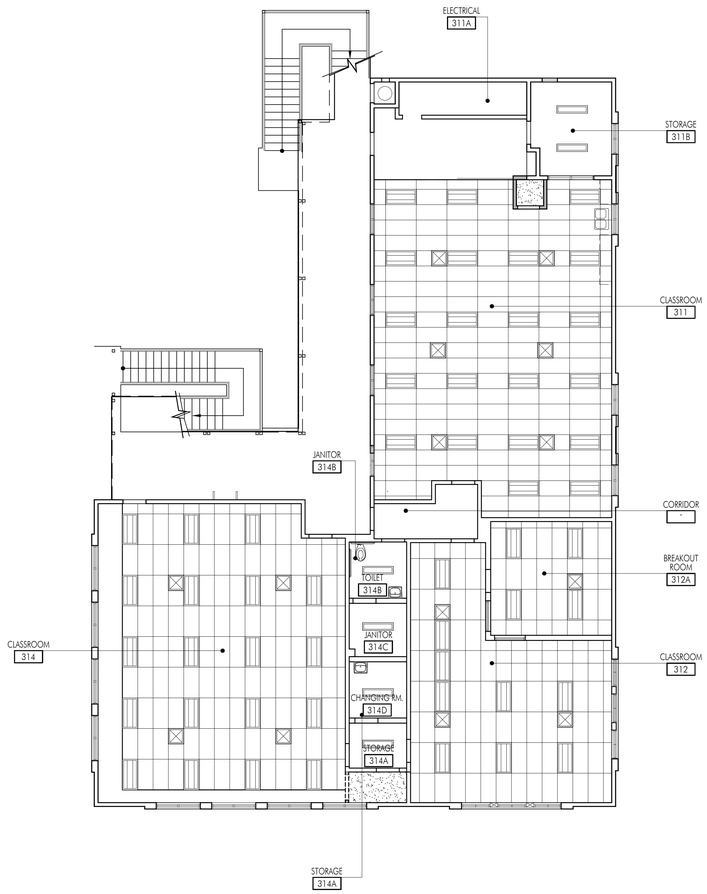
Sheet Title

Building 'K' Second Floor Demolition Plan and Demolition Reflected Ceiling Plan

Sheet Number

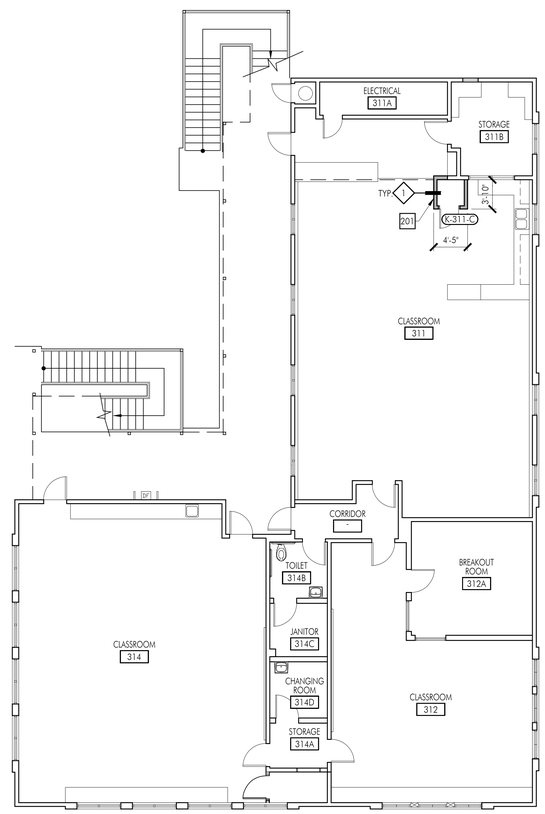
AK202

Plot Date: 11/27/2019 12:17:28 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AK202.dwg



2 REFLECTED CEILING PLAN

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



1 FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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3. ALL WALLS SHALL BE FULL HEIGHT TO THE ROOF DECK UNLESS NOTED OTHERWISE, AND SHALL BE CLOSED AND SEALED PER WALL TYPE AND AS DETAILED ON A711.
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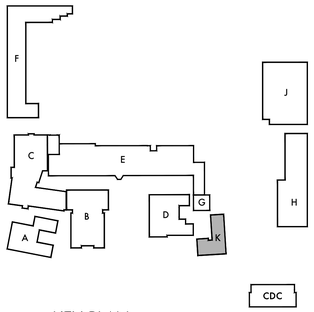
KEYNOTES

NO.	DESCRIPTION
201	MECHANICAL CLOSET SEE WALL TYPE AS REFERENCED AND PLAN FOR DIMENSIONS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION

FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
A-100-A	NEW DOOR AND FRAME. SEE DOOR SCHEDULE ON A611 FOR MORE INFORMATION
1	WALL TYPE. SEE A711 FOR MORE INFORMATION.
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION
	RELOCATED LIGHT FIXTURE. SEE ELECTRICAL FOR MORE INFORMATION.
	FRAMED GYPSUM BOARD CEILING SEE X/XXX FOR ADDITIONAL INFORMATION AND REFERENCED DETAIL ON PLAN FOR SOFFIT CONDITIONS AS OCCURS. PAINT P-1
	AIR SUPPLY REGISTER
	RETURN AIR GRILLE
	EXHAUST GRILLE



KEY PLAN

APPL. No. A 00-123456

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NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

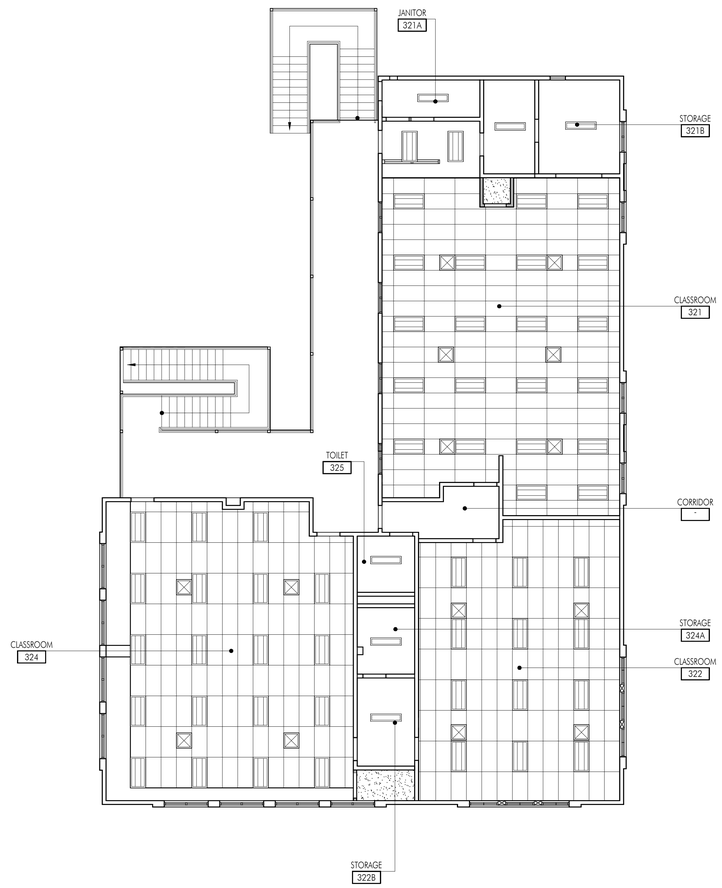
Sheet Title

Building 'K' First Floor Plan and Reflected Ceiling Plan

Sheet Number

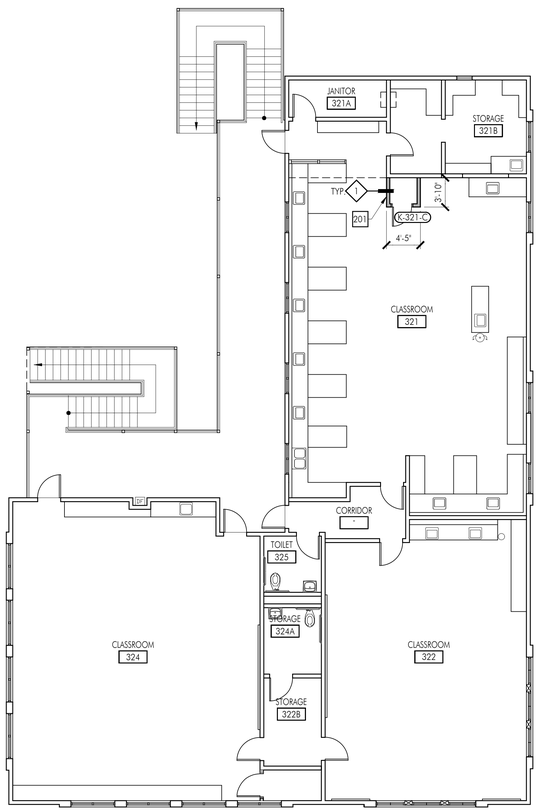
AK211

Plot Date: 11/27/2019 12:17:33 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AK211.dwg



2 REFLECTED CEILING PLAN

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



1 FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

1. REMOVE EXISTING GYPSUM BOARD, TILE AND BACKER BOARD OR PLASTER TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PIPING, ELECTRICAL AND FOR THE INSTALLATION OF SUPPORT BLOCKING AND MECHANICAL EQUIPMENT. PATCH BACK TO MATCH ADJACENT SURFACE.
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KEYNOTES

NO.	DESCRIPTION
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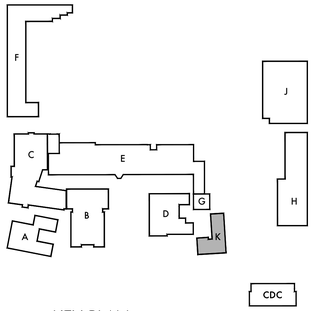
FLOOR PLAN LEGEND

SYMBOL	DESCRIPTION
	(E) WOOD STUD WALL OR PARTITION TO REMAIN.
	METAL STUD WALL ASSEMBLY. REFER TO WALL TYPE AND TYPICAL DETAILS ON A711 FOR MORE INFORMATION
A-100-A	NEW DOOR AND FRAME. SEE DOOR SCHEDULE ON A611 FOR MORE INFORMATION
1	WALL TYPE. SEE A711 FOR MORE INFORMATION.
	EXISTING SUSPENDED T-BAR CEILING SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING GLUE ON ACOUSTIC TILE TO REMAIN, UNLESS NOTED OTHERWISE.
	EXISTING LIGHT FIXTURE TO REMAIN. SEE ELECTRICAL FOR MORE INFORMATION
	RELOCATED LIGHT FIXTURE. SEE ELECTRICAL FOR MORE INFORMATION.
	FRAMED GYPSUM BOARD CEILING SEE X/XXX FOR ADDITIONAL INFORMATION AND REFERENCED DETAIL ON PLAN FOR SOFFIT CONDITIONS AS OCCURS. PAINT P-1
	AIR SUPPLY REGISTER
	RETURN AIR GRILLE
	EXHAUST GRILLE



KEY PLAN

APPL. No. A 00-123456

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	11.27.19	50% CD's

Date: 11.27.2019
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD H. THOMSEN
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

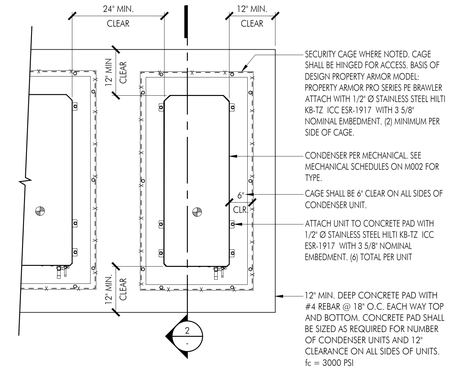
Sheet Title

Building 'K' Second Floor Plan and Reflected Ceiling Plan

Sheet Number

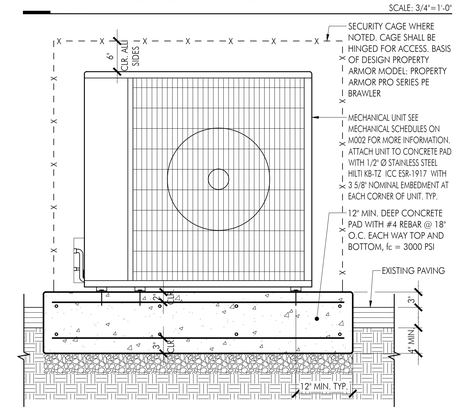
AK212

Plot Date: 11/27/2019 12:17:38 PM Last Save By: rmonico Login: Rudy.Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AK212.dwg



1 CONDENSER UNIT PLATFORM

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



2 CONCRETE PAD AT MECH. CONDENSER

SCALE: 1" = 1'-0"

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Sheet Title

Site Details

Sheet Number

A811

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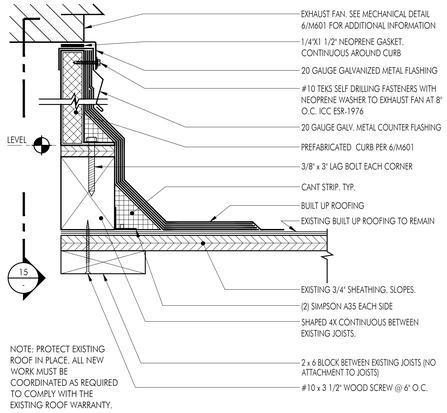
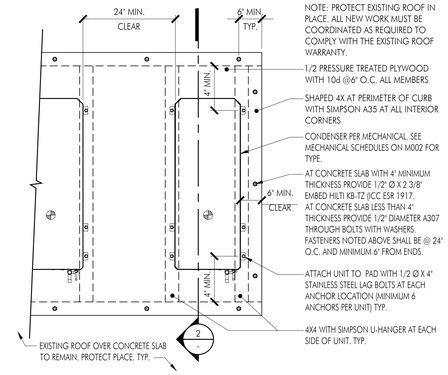


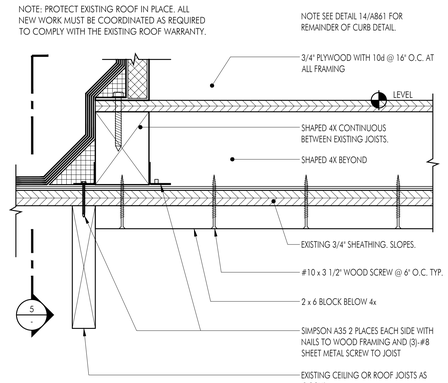
6 EXHAUST FAN CURB

SCALE: 3"=1'-0"



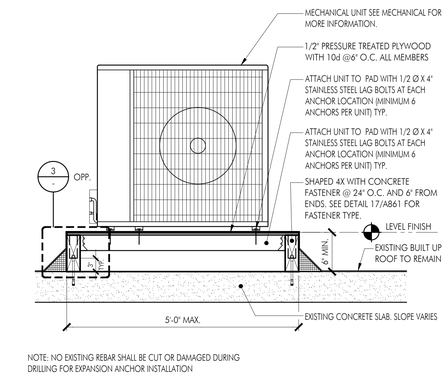
1 CONDENSER UNIT PLATFORM ON ROOF

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



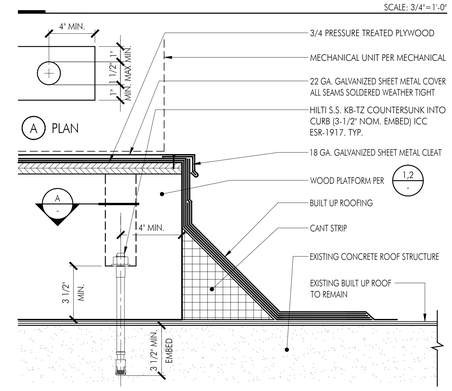
6 EXHAUST FAN CURB

SCALE: 3"=1'-0"



2 CONDENSER UNIT PLATFORM ON ROOF

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



3 ROOFING AT CONCRETE PLATFORM

SCALE: 3"=1'-0"

APPL. No. A 00-123456

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LICENSED ARCHITECT
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REN. 2-28-21
STATE OF CALIFORNIA

Consultants

Sheet Title

Roof Details

Sheet Number

A831

Plot Date: 11/27/2019 12:17:47 PM Last Save By: rmonico Login: Rudy Monico G:\Projects\School Districts\Santa Monica MUSD\SMMUSD - LMS HVAC\SMMUSD LMS Drawings\01 Architecture\SMMUSD-LMS-AZ831.dwg

MEP COMPONENT ANCHORAGE NOTES

MEP Component Anchorage Note

All mechanical, Plumbing and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2016 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10 Chapter 13, 26 and 30.

1) All permanent equipment and components.
2) Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water.
3) Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds aer required to be anchorade with temporary attachements.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork and Electrical Distribution System Bracing Note

Piping, ductwork and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8 and 2016 CBC, Sections 1616A.1.23, 1616A.1.24, 1616A.1.25 and 1616A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hangar and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (e):

MP[ ] MD[ ] PP[ ] E[ ] - Option 1: Detailed on the approved drawings with project specific notes and details.

MP[X] MD[X] PP[ ] E[ ] - Option 2: shall comply with the applicable OSHPD Pre-Approval (OPM #) #_OPM-0043-13 MASON WEST .

MP[ ] MD[ ] PP[ ] - Option 3: Shall comply with the SMACNA Seismic Restraint Manual, OSHPD Edition (2009), Including any addenda. Fasteners and other attachments not specifically identified in the SMACNA Seismic Restraint Manual, OSHPD Edition, are detailed on the approved drawings with project specific notes and details. The details shall account for the applicable Seismic Hazard Level_______and Connection Level______for the project and conditions.

NOTES FOR CCR T24 MANDATORY MEASURES

1. GENERAL: ALL EQUIPMENT AND SYSTEMS INSTALLED IN THIS PROJECT SHALL COMPLY WITH THE 2016 ENERGY EFFICIENCY STANDARDS FOR NON RESIDENTIAL BUILDINGS, HIGH-RISE BUILDINGS, AND HOTELS/MOTELS AS PUBLISHED BY THE STATE OF CALIFORNIA.
2. EQUIPMENT AND SYSTEMS EFFICIENCY
   A ANY CENTRAL AIR CONDITIONERS AND HEATERS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE CALIFORNIA ENERGY COMMISSION, AS SPECIFIED IN THOSE REGULATIONS, THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE.
   B PIPING, EXCEPT THOSE CONVEYING FLUIDS AT TEMPERATURES BETWEEN 60 DEG F AND 105 DEF F, OR WITHIN HVAC EQUIPMENT SHALL BE INSULATED IN ACCORDANCE WITH ENERGY EFFICIENCY STANDARD 123.
   C AIR HANDING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED AND INSULATED AS PROVIDED IN CHAPTER 6 OF THE UNIFORM MECHANICAL CODE.
3. VENTILATION
   A CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.
   B GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.
   C ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FOR COMBUSTION AIR OPENINGS.
   D AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED IN THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE ASSOCIATED AIR BALANCE (AABC) NATIONAL STANDARDS.
   E OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR.
4. BEFORE THE BUILDING MAY BE OCCUPIED, INSTALLATION CERTIFICATES FOR MANUFACTURED DEVICES REGULATED BY THE APPLIANCE STANDARDS OR PART 6, SHALL BE POSTED ADJACENT TO THE BUILDING PERMIT(S). CERTIFICATES SHALL:
   A IDENTIFY FEATURES REQUIRED TO VERIFY COMPLIANCE WITH THE APPLIANCE STANDARDS AND PART 6.
   B INCLUDE A STATEMENT THAT THE INSTALLED DEVICES CONFORM TO THE APPLIANCE STANDARDS AND PART 6 AND THE REQUIREMENTS FOR SUCH DEVICES GIVEN IN THE PLANS AND SPECIFICATIONS ARE APPROVED BY LOCAL ENFORCEMENT AGENCY.
   C STATE THE BUILDING PERMIT NUMBER UNDER WHICH THE CONSTRUCTION OR INSTALLATION WAS PERFORMED.
5. THE BUILDER SHALL PROVIDE THE BUILDING OWNER, MANAGER, AND ORIGINAL OCCUPANTS THE FOLLOWING:
   A A LIST OF THE HEATING, COOLING, WATER HEATING, AND LIGHTING SYSTEM & FEATURES, MATERIALS COMPONENTS, AND MECHANICAL DEVICES, CONSERVATION OR SOLAR DEVICES INSTALLED IN THE BUILDING, AND INSTRUCTIONS ON HOW TO USE THEM EFFICIENTLY.
   B REQUIRED ROUTINE MAINTENANCE ACTION SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL MAY BE LIMITED TO IDENTIFYING MAINTENANCE MANUAL. EXCEPTION: RESIDENTIAL OCCUPANCIES.
   C A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEM IS DESIGN TO PROVIDE TO EACH AREA. EXCEPTION: RESIDENTIAL OCCUPANCIES.

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS AND SPECIFICATIONS SHALL INCLUDE THE FURNISHING AND INSTALLATION OF ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL HVAC SYSTEMS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH ALL CODES, RULES, AND REGULATIONS OF GOVERNING AGENCIES AND SHALL COMPLY WITH THE REQUIREMENTS OF THE SERVING UTILITY COMPANIES.
3. ALL DUCTWORK, INSULATION, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA ADMINISTRATIVE CODE TITLE 24 AND C.M.C. DUCT MATERIALS AND CONSTRUCTION SHALL BE PER CHAPTER 6 OF C.M.C.
4. ALL EQUIPMENT, DUCTWORK AND PIPING INSTALLATION SHALL BE SEISMICALLY BRACED IN ACCORDANCE WITH THE LATEST EDITION OF S.M.A.C.N.A. (SEISMIC HAZARD LEVEL AA AND CONNECTION LEVEL 2), CALIFORNIA BUILDING AND MECHANICAL CODES.
5. PER CALIFORNIA MECHANICAL CODE SECTION 608, CONTRACTOR SHALL PROVIDE SHUTOFF FOR SMOKE CONTROL FOR ALL AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2,000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN BUILDINGS. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR-MOVING EQUIPMENT UPON DETECTION OF SMOKE IN THE MAIN SUPPLY AIR DUCT SERVED BY SUCH EQUIPMENT. SMOKE DETECTORS WHICH WILL DETECT PRODUCTS OF COMBUSTION OTHER THAN HEAT AND WHICH COMPLY WITH THE CALIFORNIA BUILDING CODE, SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR-DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMILITIES OF THE SYSTEM, WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, THE SMOKE DETECTORS REQUIRED BY THIS SECTION SHALL BE SUPERVISED BY SUCH SYSTEMS AND SHALL ACTIVATE THE FIRE ALARM SYSTEM. REFER TO THE DDC CONTROL DOCUMENTS FOR SMOKE CONTROL AND SPECIFIC REQUIREMENTS AND CONTROLS FOR THIS SYSTEM
6. INFORMATION GIVEN ON THE DRAWING IS AS EXACT AS POSSIBLE. ABSOLUTE ACCURACY IS NOT GUARANTEED, AND THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVEL, SPACE REQUIREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL CONDITIONS AT THE BUILDING.
7. COORDINATE AND ADJUST ALL WORK BETWEEN TRADES IN ORDER TO ACCOMPLISH A COORDINATED, INTEGRATED AND EFFICIENT INSTALLATION.
8. COORDINATE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH LIGHTING LAYOUT, CEILING TILE PATTERN AND WITH ARCHITECTURAL REFLECTED CEILING PLANS. IN CASE OF CONFLICT, ARCHITECTURAL REFLECTED CEILING PLANS WILL TAKE PRECEDENCE.
9. WHERE CEILING IS EXTREMELY TIGHT, CAREFULLY COORDINATE DUCT SIZES AND ROUTING WITH ARCHITECTURAL, STRUCTURAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEMS. WHERE INTERFERENCES EXIST TRANSITION TO SUITABLE RECTANGULAR DUCTWORK TO MAINTAIN REQUIRED CEILING HEIGHT.
10. FIELD COORDINATE THE EXACT LOCATION OF ALL TEMPERATURE SENSORS, THERMOSTATS WITH ANY EQUIPMENT, SHELVING, RACKS, CABINETS OR OTHER FACILITY SUPPLIED FURNITURE AND EQUIPMENT, BASED ON THE ARCHITECTURAL DRAWINGS.
11. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED OR NOTCHED WITHOUT WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND ARCHITECT.
12. PROVIDE MANUAL VOLUME DAMPER UPSTREAM OF EACH AIR INLET/OUTLET TO FACILITATE PROPER BALANCE, WHETHER SHOWN OR NOT. VOLUME DAMPER AT DIFFUSERS AND REGISTERS SHALL NOT BE USED FOR AIR BALANCING.
13. SEAL ALL OPENINGS AROUND PIPING AND DUCTWORK PENETRATING FIRE RESISTIVE RATED WALLS AND FLOORS TO MAINTAIN RATING INTEGRITY.
14. CONTRACTOR SHALL COORDINATE DEVICES REQUIRING ACCESS. PROVIDE CEILING, WALL OR FLOOR ACCESS PANELS FOR TERMINAL BOXES, VALVES, COMBINATION SMOKE/FIRE DAMPERS AND VOLUME DAMPERS, ACTUATORS, BACK-DRAFT DAMPERS AS REQUIRED. COORDINATE WITH ARCHITECT FOR EXACT LOCATION OF ACCESS PANELS. MINIMUM SIZE OF ACCESS PANELS SHALL BE 18" X 18".
15. INSTALL EQUIPMENT IN ACCESSIBLE LOCATIONS AND PROVIDE ADEQUATE SERVICE CLEARANCE FOR NORMAL MAINTENANCE WITHOUT REMOVING ARCHITECTURAL, ELECTRICAL OR STRUCTURAL ELEMENTS.
16. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 6"-0". MINIMUM RADIUS SHALL BE 1-1/2 DIAMETER OF DUCT. FLEXIBLE DUCT SHALL NOT BE USED IN SYSTEM UTILIZED AS PART OF THE BUILDING SMOKE CONTROL.
17. PROVIDE ISOLATION VALVES AND UNIONS ON PIPING ADJACENT TO ALL CONTROL VALVES AND OTHER APPURTENANCES OR EQUIPMENT. LOCATE VALVES SO THAT EQUIPMENT CAN BE REMOVED WITHOUT DISMANTLING ANY BRANCH LINES.
18. PROVIDE CONCEALED MANUAL VOLUME DAMPER REGULATOR AT ALL ACCESSIBLE LOCATIONS.
19. ALL CURBS, ROOF JACKS AND EQUIPMENT SUPPORT PADS SHALL BE COMPATIBLE WITH ROOFING SYSTEM.
20. REFER TO PLUMBING DRAWINGS OR ALL CONDENSATE DRAIN PIPING.
21. A MAINTENANCE LABEL SHALL BE AFFIXED TO MECHANICAL EQUIPMENT. A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE. LABEL EACH ROOF MOUNTED EQUIPMENT TO IDENTIFY THE AREA IT SERVES. SEE SPECIFICATIONS.
22. ALL DUCTWORK AND EQUIPMENT WHICH IS EXPOSED SHALL BE APPLIED WITH PRIMER AND ENAMEL PAINT. COLOR SHALL BE SELECTED BY THE ARCHITECT. ALL DUCTWORK EXPOSED UNDER THE CEILING SHALL BE PAINTED WITH PRIMER AND ENAMEL PAINT TO MATCH THE SURROUNDINGS.
23. PROVIDE SHEET METAL WEATHER HOOD COVER FOR ALL DAMPER ACTUATORS, SMOKE DETECTOR, MOTORS LOCATED OUTDOORS.
24. WHERE ATTIC IS TO BE USED AS RETURN PLENUM, IT SHALL CONTAIN NO COMBUSTIBLE MATERIALS LIKE SLEEVES GAS PIPE, PLASTIC PIPE OR RUBBER INSULATION. ALL CEILING MATERIALS SHALL BE NON-COMBUSTIBLE UNLESS APPROVED IN PLENUM INSTALLATION.
25. PROVIDE WALL OPENING ABOVE CEILING LEVEL FOR RETURN AIR IN EACH ROOM AS REQUIRED.
26. FIRE DAMPERS INSTALLED IN DUCTWORK SYSTEM WITHOUT AUTOMATIC SHUT-DOWN SHALL BE U.L. LISTED DYNAMIC TYPE (SPRING LOADED).
27. PROVIDE SECURITY BARS ON ALL EXHAUST FAN OPENINGS AND GRAVITY VENT OPENINGS THROUGH HE ROOF GREATER THAN 16"x16".
28. AIR HANDLING DUCT SYSTEM, EXCEPT GREASE EXHAUST DUCT SYSTEM, SHALL BE CONSTRUCTED, INSTALLED AND INSULATED AS PROVIDED IN CHAPTER 6 OF 2016 CMC.
29. ALL WORK SHALL BE IN ACCORDANCE WITH IAQ GUIDELINES FOR OCCUPIED BUILDINGS UNDER CONSTRUCTION SECOND EDITION.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	EER	ENERGY EFFICIENCY RATIO	(N)	NEW
AHU	AIR HANDLING UNIT	EF	EXHAUST FAN	NC	NOISE CRITERIA
AMB.	AMBIENT	ENT	ENTERING	OA	OUTSIDE AIR
ARCH	ARCHITECT OR ARCHITECTURAL	ESP	EXTERNAL STATIC PRESSURE	OPNG	OPENING
B	BOILER	EXH	EXHAUST	P	PUMP
BHP	BRAKE HORSE POWER	°F OR F	DEGREES FAHRENHEIT	QTY.	QUANTITY
BTUH	BRITISH THERMAL UNIT PER HOUR	FCU	FAN COIL UNIT	RA	RETURN AIR
CAV	CONSTANT AIR VOLUME	FLA	FULL LOAD AMP.	RAG	RETURN AIR GRILLE
CFF	CAPPED FOR FUTURE	FPI	FINS PER INCH	RLA	RUNNING LOAD AMP
CD	CEILING DIFFUSER				
CFH	CUBIC FEET PER HOUR	FPM	FEET PER MINUTE	RPM	REVOLUTIONS PER MINUTE
CFM	CUBIC FEET PER MINUTE	GAL.	GALLON	SA	SUPPLY AIR
CLG	CEILING	HP	HORSEPOWER	SAG	SUPPLY AIR GRILLE
COP	COEFFICIENT OF PERFORMANCE	HZ	HERTZ	S.P.	STATIC PRESSURE
CV	CONSTANT VOLUME	IN. W.C.	INCH OF WATER COLUMN	SF	SQUARE FEET
DB	DRY-BULB	IN. W.G.	INCH OF WATER GAGE	ST	SOUND TRAP
DIFF	DIFFUSER	KBTUH	THOUSAND BTU PER HOUR	TG	TRANSFER GRILLE
DN	DOWN	LBS	POUNDS	TYP	TYPICAL
DS	DUCT SILENCER	MAX.	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
DWG	DRAWING	MCA	MINIMUM CIRCUIT AMP	UTR	UP THROUGH ROOF
(E)	EXISTING	MCC	MOTOR CONTROL CENTER	VAV	VARIABLE AIR VOLUME
EAG	EXHAUST AIR GRILLE	MIN.	MINIMUM	VTR	VENT THROUGH ROOF

LEGEND

SYMBOL DOUBLE	SYMBOL SINGLE	ABBREV.	DESCRIPTION
	SA	C	COLD SUPPLY AIR DUCT
	EXH	E	EXHAUST AIR DUCT
	RA	R	RETURN AIR DUCT
			ROUND RADIUS ELBOW
48X24(L)	48X24(L)		DUCT WITH INTERNAL LINING L= 1" THICK 2L= 2" THICK
			TRANSITION - RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND
			TRANSITION - RECTANGULAR TO ROUND
			ELBOW WITH TURNING VANE
R	R		RISE IN DIRECTION OF AIRFLOW
D	D		DROP IN DIRECTION OF AIRFLOW
48X24 *	48X24 *		48" X 24" DUCT FIRST DIMENSION FACES VIEWER (* MEANS STAINLESS STEEL)
			FLEXIBLE DUCT
			CEILING DIFFUSER 4-WAY THROW
			CEILING DIFFUSER 3-WAY THROW
			CEILING DIFFUSER 2-WAY THROW
			CEILING DIFFUSER CORNER THROW
			THERMAFUSER SUPPLY DIFFUSER (AS NOTED ON DWG.)
			SUPPLY OR OUTSIDE AIR DUCT - SECTION
			RETURN OR RELIEF AIR DUCT - SECTION
			EXHAUST AIR DUCT - SECTION
			ROUND DUCT OR RISER - SECTION
SFD	SFD		COMBINATION SMOKE & FIRE DAMPER
FD			FIRE DAMPER
	M OR MD	M OR MD	MOTORIZED DAMPER
		VD	MANUAL VOLUME DAMPER (QUADRANT BALANCING DAMPER)
BDD		BDD	BACKDRAFT DAMPER
			FLEXIBLE DUCT CONNECTOR
			CAPPED DUCTWORK
			CONICAL TAP W/MANUAL VOLUME DAMPER
		360	CEILING DIFFUSER, ADAPTER FOR ROUND DUCT. 360 CFM
EXHAUST	RETURN		CEILING GRILLE OR REGISTER
		6X6 150	6"X6"WALL REGISTER, 150 CFM
		(4)3/4"X5'-0" LSD 300	NO. & SIZE OF SLOTS, LENGTH, LINEAR SLOT DIFFUSER, CFM
P			PRESSURE TRANSMITTER
T			TEMPERATURE TRANSMITTER
DP			DIFFERENTIAL PRESSURE TRANSMITTER
T			ROOM THERMOSTAT
S			TEMPERATURE SENSOR
CO2			CARBON DIOXIDE SENSOR
DD			DUCT MOUNTED SMOKE DETECTOR (PROVIDE UNDER ELECTRICAL SECTION AND INSTALL UNDER MECHANICAL SECTION)

LEGEND

SYMBOL	ABBREV.	DESCRIPTION
HWS	HWS	HOT WATER SUPPLY
HWR	HWR	HOT WATER RETURN
IW	IW	INDUSTRIAL WATER
V	V	VENT
SCW	SCW	SOFT COLD WATER
		CAPPED PIPE
		PIPE ELBOW UP
		PIPE ELBOW DOWN
		PIPE TEE UP
		PIPE TEE DOWN
		STRAINER
		UNION
		FLANGE
		FLEXIBLE PIPE CONNECTOR
		BALL VALVE
	GV	GATE VALVE
	GLV	GLOBE VALVE
	CV	CHECK VALVE
		GATE VALVE WITH HOSE CONNECTOR
	RV	SAFETY OR PRESSURE RELIEF VALVE
	PRV	PRESSURE REDUCING VALVE
		CIRCUIT SETTER
		2-WAY CONTROL VALVE
		3-WAY CONTROL VALVE
	AAV	AUTOMATIC AIR VENT TO BE PIPED TO NEAREST APPROVED RECEPTOR
	MAV	MANUAL AIR VENT TO BE PIPED TO NEAREST APPROVED RECEPTOR
DP		DIFFERENTIAL PRESSURE
	POC	POINT OF CONNECTION
	POD	POINT OF DEMOLITION
1 M1		DETAIL DESIGNATION / SHEET NUMBER — DETAIL REFERENCE
1		SHEET NOTE
A M-2		SECTION DESIGNATION / SHEET NO. WHERE SECTION DRAWN
1		REVISION TAG
		RETURN / EXHAUST AIR FLOW DIRECTION
E 1	E-1	NEW EQUIPMENT DESIGNATION
VD		RETURN AIR DUCT W/ BELLMOUTH OPENING W/ WIREMESH SCREEN AT AIR INLET
		(E) DUCTWORK TO BE DEMOLISHED
	AP/AD	ACCESS PANEL/ ACCESS DOOR
U/C		UNDERCUT DOOR (UNDER ARCH SECTION)
CFF		CAPPED FOR FUTURE

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE

5.410.4 TESTING, ADJUSTING AND BALANCING: DURING CONSTUCTION TAPE/BLANK OFF AND SEAL HVAC EQUIPMENT OPENINGS FROM CONSTRUCTION DEBRIS, DUST, AND WATER. CLOSE GRILLES, AIR OPENINGS, AND FIN COILS TO PREVENT CONTAMINATION INSIDE/OUITSIDE TO THE EQUIPMENT, TO THE FILTERS, AND THE DUCTWORK. DO NOT OPERATE THE EQUIPMENT AND DUCTWORK DURING THE CONSTRUCTION PERIOD UNTIL AFTER APPROVED CLEAN-UP IS COMPLETE. COVER EQUIPMENT AND PANELS TO PREVENT WEATHER, SPLASH AND WATER ENTRY. ANY ELECTRICAL PANELS AND COMPONENTS EXPOSED TO WATER OR DUST WILL NEED TO BE REPLACED AT NO COST TO THE OWNER.

5.410.4.2 SYSTEMS: PROCEDURE FOR TESTING, ADJUSTING, BALANCING AND COMMISSIONING OF PACKAGED ROOFTOP GAS ELECTRIC AIR CONDITIONERS/AIR ECONOMIZERS AND RESTROOM/JANITOR ROOM EXHAUST, FANS SHALL BE IN ACCORDANCE WITH AABC PUBLISHED STANDARDS.

5.410.4.3 PROCEDURES: VERIFY POINT TO POINT ALL FUNCTIONS ARE OPERATIONAL INCLUDING START/STOP, TEMPERATURE CONTROL SETPOINTS PER T24, AIR ECONOMIZER SETPOINTS LOW/HIGH LIMIT, SMOKE DETECTOR SHUTDOWN AND ALARM, GAS HEATING OPERATION AND FAN CONTROL, COOLING OPERATION WITH EVAPORATOR AIRFLOW AND CONDENSER AIRFLOW AND TEMPERATURE AND REFRIGERANT PRESSURE READINGS. CHECK DUCT STATIC PRESSURE IN/OUT OF UNITS AND FANS. CHECK BACKDRAFT DAMPER OPERATION OPEN/CLOSE ON UNIT START/SHUTDOWN. CHECK CONDENSATE TRAP IS FLOWING WITH NO WATER STANDING IN THE PAN UNDER ALL OPERATING CONDITIONS INCLUDING DIRTY FILTER.

5.410.4.3.1 HVAC BALANCING: CHECK FILTERS ARE INSTALLED PROPERLY AND ARE CORRECT MERV RATING FOR THE APPLICATION PER PLANS. CHECK MOTOR SPEED AND AMPS, FAN SPEED, ADJUSTT ACCORDINGLY. CHECK TIMECLOCK IS FUNCTIONAL AND SET PROPERLY. AC AND EXHAUST FANS SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS 6AM TO 9PM. VERIFY OUTSIDE AIR SETTINGS ARE IN ACCORDANCE WITH DESIGN QUANTITIES ON PLANS. CHECK ALL AIR OUTLETS AND AIR INLETS ARE SET IN ACCORDANCE WITH AIR QUANTITIES ON THE PLANS.

5.410.4.4 REPORTING: DELIVER WRITTEN POINT TO POINT COMMISSIONING FUNCTIONALITY REPORT AND TEST AND BALANCE REPORT.

5.410.4.5 OPERATION AND MAINTENANCE MANUALS: MANUFACTURER'S OPERATION AND MAINTENANCE MANUALS AND SPARE PARTS LISTS ENCLOSED UNDER A SINGLE PROPERLY LABELED LAMINATED BINDER FOR INSPECTOR REVIEW.

5.410.4.5.1 INSPECTIONS AND REPORTS: INSPECTIONS AND REPORTS DOCUMENTING THE ENTIRE SYSTEM HAS BEEN INSPECTIED AND APPROVED BY THE ENFORCING AGENCY.

5.504.1.3 TEMPORARY VENTILATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MERV OF 8, BASED ON ASHRAE 52.2-1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY. APPLIES TO ADDITIONS OR ALTERATIONS.

5.504.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.

5.504.5.3 FILTERS. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MERV OF 8. MERV 8 FILTERS SHALL BE INSTALLED PRIOR TO OCCUPANCY, AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.

EXCEPTIONS:

1. AN ASHRAE 10-PERCENT TO 15-PERCENT EFFICIENCY FILTER SHALL BE PERMITTED FOR AN HVAC UNIT MEETING THE 2016 CALIFORNIA ENERGY CODE HAVING 60,000 BTU/H OR LESS CAPACITY PER FAN COIL, IF THE ENERGY USE OF THE AIR DELIVERY SYSTEM IS 0.4 W/CFM OR LESS AT DESIGN AIR FLOW.
2. EXISTING MECHANICAL EQUIPMENT.

5.504.5.3.1 LABELING. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING.

5.506.1 OUTSIDE AIR DELIVERY. FOR MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS, MEET THE MINIMUM REQUIREMENTS OF SECTION 121 OF THE CA ENERGY CODE AND CHAPTER 4 OF CCR, TITLE 8 OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT.

APPLICABLE CODES

2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2016 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 C.C.R. (2015 INTERNATIONAL BUILDING CODE WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 C.C.R. (2014 NATIONAL ELECTRICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE WITH 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 C.C.R. (2015 UNIFORM PLUMBING CODE WITH 2015 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.

2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R

2016 CALIFORNIA REFERENCE STANDARDS CODE, PART 12, TITLE 24 C.C.R.

MECHANICAL SHEET INDEX

SHEET	DESCRIPTION	SHEET	DESCRIPTION
M001	MECHANICAL COVER SHEET	MH201	BUILDING 'H' MECHANICAL PLAN
M002	MECHANICAL SCHEDULES	MH202	BUILDING 'H' MECHANICAL ROOF PLAN
M003	MECHANICAL SCHEDULES	MK201	BUILDING 'K' MECHANICAL PLANS
M004	MECHANICAL SCHEDULES	MK202	BUILDING 'K' MECHANICAL ROOF PLAN
M005	MECHANICAL SCHEDULES	MAD201	BUILDING 'A' MECHANICAL DEMOLITION PLAN
M006	MECHANICAL SCHEDULES	MBD201	BUILDING 'B' MECHANICAL DEMOLITION PLAN
M007	MECHANICAL SCHEDULES	MCD202	BUILDING 'C' SECOND FLOOR MECHANICAL DEMOLITION PLAN
MA201	BUILDING 'A' MECHANICAL PLAN	MCD203	BUILDING 'C' MECHANICAL ROOF DEMOLITION PLAN
MA202	BUILDING 'A' MECHANICAL ROOF PLAN	MDD202	BUILDING 'D' ROOF MECHANICAL DEMOLITION PLAN
MB201	BUILDING 'B' MECHANICAL PLAN	MED200	BUILDING 'E' BASEMENT MECHANICAL DEMOLITION PLAN
MB202	BUILDING 'B' MECHANICAL MEZZANINE PLAN	MED201A	BUILDING 'E' FIRST FLOOR MECHANICAL DEMOLITION PLAN SEGMENT A
MB203	BUILDING 'B' MECHANICAL ROOF PLAN	MED201B	BUILDING 'E' FIRST FLOOR MECHANICAL DEMOLITION PLAN SEGMENT B
MC202	BUILDING 'C' SECOND FLOOR MECHANICAL PLAN	MED202A	BUILDING 'E' SECOND FLOOR MECHANICAL DEMOLITION PLAN SEGMENT A
MC203	BUILDING 'C' MECHANICAL ROOF PLAN	MED202B	BUILDING 'E' SECOND FLOOR MECHANICAL DEMOLITION PLAN SEGMENT B
MCDC201	BUILDING 'CDC' MECHANICAL PLANS	MED203A	BUILDING 'E' ROOF MECHANICAL DEMOLITION PLAN SEGMENT A
MCDC202	BUILDING 'CDC' MECHANICAL ROOF PLAN	MHD201	BUILDING 'H' MECHANICAL DEMOLITION PLAN
MD201	BUILDING 'D' MECHANICAL PLAN	MHD202	BUILDING 'H' MECHANICAL ROOF DEMOLITION PLAN
MD202	BUILDING 'D' MECHANICAL ROOF PLAN	MKD201	BUILDING 'K' MECHANICAL DEMOLITION PLAN
ME201A	BUILDING 'E' FIRST FLOOR MECHANICAL PLAN SEGMENT A	M601	MECHANICAL DETAILS
ME201B	BUILDING 'E' FIRST FLOOR MECHANICAL PLAN SEGMENT B	M602	MECHANICAL DETAILS
ME202A	BUILDING 'E' SECOND FLOOR MECHANICAL PLAN SEGMENT A	M603	MECHANICAL DETAILS
ME202B	BUILDING 'E' SECOND FLOOR MECHANICAL PLAN SEGMENT B	M604	MECHANICAL DETAILS
ME203A	BUILDING 'E' MECHANICAL ROOF PLAN SEGMENT A		
ME203B	BUILDING 'E' MECHANICAL ROOF PLAN SEGMENT B		
MG201	BUILDING 'G' MECHANICAL PLANS		

DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Drawn By: DH, RM
Checked By: RI

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Sheet Title
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Sheet Number
M001

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AIR HANDLING UNIT SCHEDULE

SYMBOL	MANUFACTURER AND MODEL NO.	SERVICE	TYPE	LOCATION	SUPPLY FAN FAN QTY.	SUPPLY FAN FAN TOTAL CFM	SUPPLY FAN FAN TOTAL SP (IN WC)	SUPPLY FAN FAN EXTERNAL SP (IN WC)	SUPPLY FAN FAN RPM	SUPPLY FAN MOTOR HP	SUPPLY FAN MOTOR BHP	SUPPLY FAN MOTOR POWER V-PH-HZ	RETURN FAN FAN QTY.	RETURN FAN FAN TOTAL CFM	RETURN FAN FAN TOTAL SP (IN WC)	RETURN FAN FAN EXTERNAL SP (IN WC)	RETURN FAN FAN RPM	RETURN FAN MOTOR HP (EA.)	RETURN FAN MOTOR BHP (EA.)	RETURN FAN MOTOR POWER V-PH-HZ	COOLING COIL CAPACITY TOTAL MBH	COOLING COIL CAPACITY SENS MBH	COOLING COIL MIN. AREA SQ. FT.	COOLING COIL AIR VELOCITY FPM	COOLING COIL ROWS / FPI	COOLING COIL EAT DB	COOLING COIL EAT WB	COOLING COIL LAT DB	COOLING COIL LAT WB	COOLING COIL APD IN. WC (MAX)	COOLING COIL WATER TEMP °F ENT	COOLING COIL WATER TEMP °F LVG	COOLING COIL GPM	COOLING COIL WPD FT.	HOT WATER COIL (PRE-HEAT) WATER PD (FT) IN/OUT 180°/137.7°	HOT WATER COIL (PRE-HEAT) AIR TEMP IN/OUT	HOT WATER COIL (PRE-HEAT) AIR APD IN. WC (MAX)	HOT WATER COIL (PRE-HEAT) MBH	HOT WATER COIL (PRE-HEAT) GPM	FILTERS	MINIMUM OSA CFM	MINIMUM RELIEF AIR CFM	OPERATING WEIGHT (LBS)	ANCHORAGE	ACCESSORIES	REMARKS
BUILDING B																																																
AHU 1-1	SEASONS-4 AHXXX/6MGF09	AUDITORIUM	CUSTOM BUILT	FAN ROOM -	1	12,000	2.79	1.5	1,758	10	-	460-3-60	-	-	-	-	-	-	-	-	405	395	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SEE FILTER SCHEDULE	-	-	2,900	-		
AHU 1-2	SEASONS-4 AHXXX/6MCE09	AUDITORIUM	CUSTOM BUILT	FAN ROOM -	1	6,800	2.82	1.5	1,738	7.5	-	460-3-60	-	-	-	-	-	-	-	-	210	207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SEE FILTER SCHEDULE	-	-	2,200	-		

ACCESSORIES:

(1) VAPOR PROOF SERVICE LIGHTS TO A SINGLE SWITCH. (2) SMOKE DETECTOR ON SA & RA MAIN DUCT FOR UNIT SHUT DOWN. MATCH BUILDING FIRE ALARM TYPE. (3) BUILT-IN RETURN, OSA AND RELIEF AIR DAMPER (4) PROVIDE MAGNAHELIC FILTER GAUGE FOR PRE AND FINAL FILTER SECTIONS. (5) MERV 8 PRE-FILTER, 21" BAG WITH MERV 14 FINAL FILTER. (6) WINDOW SAFETY GLASS AT ACCESS DOORS. (7) PROVIDE REMOTE MOUNTED PANELS FOR SA & RA FANS. (8) FAN DOOR SWITCH. (9) 100% FULLY MODULATING ECONOMIZER SYSTEM WITH DIFFERENTIAL TEMPERATURE CONTROLS. ECONOMIZER CONTROLS BY CONTROLS CONTRACTOR.

REMARKS:

(1) AH UNIT MANUFACTURER SHALL PROVIDE AN "AIR FLOW STATION" SA & RA FAN FACTORY INSTALLED AT OSA INLET. (2) WATER COILS SHALL BE ALUMINUM FINS AND COPPER COILS. (3) PROVIDE HIGH PRESSURE CUT-OFF SWITCH FOR SUPPLY AND RETURN FANS. (4) PROVIDE SEPARATE 20 AMP/120V-1PH-60HZ CIRCUITS FOR LIGHTS AND CONTROLS.

ROOF TOP GAS ELECTRIC PACKAGED UNIT SCHEDULE

TAG	MANUFACTURER MAKE	MANUFACTURER MODEL	TONS	ELECTRICAL FOR RTU POWER	ELECTRICAL FOR RTU BHP	ELECTRICAL FOR RTU MCA	ELECTRICAL FOR RTU MOCP	ELECTRICAL FOR POWER EXHAUST (P.E) MAKE, MODEL & TYPE	P.E. INT SP IN.WG.	P.E. MOTOR HP	P.E. MOTOR FLA	P.E. MOTOR MCA	P.E. MOTOR MOCP	P.E. POWER	ECONOMIZER MAKE & MODEL	SUPPLY FAN CFM	SUPPLY FAN TOTAL SP IN.WG.	MIN OSA CFM	COOLING CAPACITY TOTAL (MBH)	COOLING CAPACITY SENSIBLE (MBH)	COOLING CAPACITY EER/IEER	COOLING CAPACITY SEER	EVAPORATOR COIL EDB (°F)	EVAPORATOR COIL EWB (°F)	EVAPORATOR COIL LDB (°F)	EVAPORATOR COIL LWB (°F)	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	HEATING EFF % (AFUE)	WEIGHT (LBS) RTU	WEIGHT (LBS) CURB	WEIGHT (LBS) P.E/ECON	WEIGHT (LBS) TOTAL	MOUNT'G DETAIL	SEISMIC DETAILS	CONTROL DETAIL	REMARKS
BUILDING C																																						
RTU 2-1	CARRIER	48LCD008A2A6-0A0A0	7.5	460V-3Ø-60HZ	1.69	23	25	CANFAB MODEL 1178-MHPE 015	0.75	1.5	3.2	4.0	7.2	460V-3Ø-60	CANFAB MODEL 1178-MHPE 015	3000	1.0	-	-	-	-	-	80.0	67.0	58.3	57.2	150.0	120.0	80.0	1651	475	340	2466	- - - -	- - - - THRU	- - - -	1 2 3 4 5
RTU 2-2	CARRIER	48GCLM06A2A6-0A0A0	5	460V-3Ø-60HZ	0.95	13	15	CANFAB MODEL 1120-MHPE 010	0.75	1.0	2.4	3.0	5.4	460V-3Ø-60	CANFAB MODEL 1120-MHPE 010	2000	1.0	-	-	-	-	-	80.0	67.0	57.6	57.1	60.0	49.0	82.0	600	310	200	1110	- - - -	- - - - THRU	- - - -	1 2 3 4 5
RTU 2-3	CARRIER	48LCD008A2A6-0A0A0	7.5	460V-3Ø-60HZ	1.69	23	25	CANFAB MODEL 1178-MHPE 015	0.75	1.5	3.2	4.0	7.2	460V-3Ø-60	CANFAB MODEL 1178-MHPE 015	3000	1.0	-	-	-	-	-	80.0	67.0	58.3	57.2	150.0	120.0	80.0	1651	475	340	2466	- - - -	- - - - THRU	- - - -	1 2 3 4 5
RTU 2-4	CARRIER	48GCLM05A2A6-0A0A0	4	460V-3Ø-60HZ	0.69	11	15	(NONE)							CANFAB MODEL 1105-HCE	1600	1.0	-	-	-	-	-	80.0	67.0	58.6	57.2	60.0	49.0	82.0	555	310	140	1005	- - - -	- - - - THRU	- - - -	1 2 3 5 6
RTU 2-5	CARRIER	48LCD008A2A6-0A0A0	7.5	460V-3Ø-60HZ	1.69	23	25	CANFAB MODEL 1178-MHPE 015	0.75	1.5	3.2	4.0	7.2	460V-3Ø-60	CANFAB MODEL 1178-MHPE 015	3000	1.0	-	-	-	-	-	80.0	67.0	58.3	57.2	150.0	120.0	80.0	1651	475	340	2466	- - - -	- - - - THRU	- - - -	1 2 3 4 5
RTU 2-6	CARRIER	48LCD008A2A6-0A0A0	7.5	460V-3Ø-60HZ	1.69	23	25	CANFAB MODEL 1178-MHPE 015	0.75	1.5	3.2	4.0	7.2	460V-3Ø-60	CANFAB MODEL 1178-MHPE 015	3000	1.0	-	-	-	-	-	80.0	67.0	58.3	57.2	150.0	120.0	80.0	1651	475	340	2466	- - - -	- - - - THRU	- - - -	1 2 3 4 5
RTU 2-7	CARRIER	48GCLM06A2A6-0A0A0	5	460V-3Ø-60HZ	0.95	13	15	CANFAB MODEL 1120-MHPE 010	0.75	1.0	2.4	3.0	5.4	460V-3Ø-60	CANFAB MODEL 1120-MHPE 010	2000	1.0	-	-	-	-	-	80.0	67.0	57.6	57.1	60.0	49.0	82.0	600	310	200	1110	- - - -	- - - - THRU	- - - -	1 2 3 4 5
RTU 2-8	CARRIER	48GCLM05A2A6-0A0A0	4	460V-3Ø-60HZ	0.69	11	15	(NONE)							CANFAB MODEL 1105-HCE	1600	1.0	-	-	-	-	-	80.0	67.0	58.6	57.2	60.0	49.0	82.0	555	310	140	1005	- - - -	- - - - THRU	- - - -	1 2 3 5 6
BUILDING G																																						
RTU 1-1	CARRIER	48GCLM05A2A5-0A0A0	4	208V-3Ø-60HZ	0.84	26	30	(NONE)							CANFAB MODEL 1178-MHPE030	1600	1.0	-	-	-	-	-	80.0	67.0	58.6	57.2	60.0	49.0	81.0	555	127	185	867	- - - -	- - - - THRU	- - - -	1 2 3 5 6

REMARKS

(1) PROVIDE DUCT SMOKE DETECTOR ON SA DUCT PER FIRE ALARM DRAWINGS. PROVIDE CO MONITORS PER 2016 CBC 915. SEE FA SHEETS E8-3 THROUGH E8-11 AND 2/M701 FOR FURTHER INFORMATION.

(2) PROVIDE 2" MERV 11 FILTER, PROGRAMMABLE THERMOSTAT TIED TO RTU AND 1" ISOLATION ADJUSTABLE / PITCHED ROOF CURB.

(3) PROVIDE ALL NECESSARY CONTROLS, EQUIPMENT, PROGRAMMING, WIRING AND CONDUITS FOR CONNECTION EXISTING CAMPUS EMS.

(4) PROVIDE 0-100% FULLY MODULATING ECONOMIZER AND INTEGRAL POWER EXHAUST WITH DRY-BULB INTEGRATED CONTROL MOUNTED AT THE SHORT END OF THE AC UNIT. PROVIDE DUAL, SEPARATE POWER TO UNIT AND POWER EXHAUST. PROVIDE CARBON DIOXIDE (CO2) SENSOR FOR DCV CONTROL.

(5) PROVIDE ISOLATION ROOF CURB.

(6) PROVIDE 0-100% FULLY MODULATING ECONOMIZER WITH DRY-BULB INTEGRATED CONTROL AND BAROMETRIC RELIEF. PROVIDE CARBON DIOXIDE (CO2) SENSOR FOR DCV CONTROL.

HEAT RECOVERY CHILLER SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	SERVICE	LOCATION	TYPE	AMB. TEMP. (°F)	PERFORMANCE CAPACITY (TONS)	PERFORMANCE EER	PERFORMANCE IPLV (EER)	COOLING GPM	COOLING EWT (°F)	COOLING LWT (°F)	COOLING PD (FT. HD.)	COOLING NO. OF PASSES	HEATING GPM	HEATING EWT (°F)	HEATING LWT (°F)	HEATING PD (FT. HD.)	HEATING NO. OF PASSES	NO. OF CIRCUIT	ELECTRICAL ARP030X NO. OF	ELECTRICAL COMPRESSOR NO. OF	ELECTRICAL COMPRESSOR RLA	ELECTRICAL COMPRESSOR LRA	ELECTRICAL COND. FANS NO. OF	ELECTRICAL COND. FANS FLA	ELECTRICAL MCA	ELECTRICAL MOP	ELECTRICAL V/PH/HZ	OPER. WT (LBS.)	REMARKS
BUILDING B																														
CH 1-1	MULTISTACK (2) ARP030X	BUILDING B AUDITORIUM	BUILDING C ROOF	HEAT RECOVERY CHILLER	95	60	9.7	-	108	56	44	5.547	-	108	109	120	5.55	-	-	2	2	-	-	2	-	150	180	460-3-60	9,400	1 2

REMARK:

(1) SINGLE POINT POWER CONNECTION, VFD, R-410a. (2) OPERATING WEIGHT IS INCLUDED ACCESSORIES, PUMP, TANK, ETC.

RETURN FAN SCHEDULE

SYMBOL	MANUFACTURER AND MODEL NO.	SERVICE	LOCATION	BLOWER CFM	BLOWER TSP IN. WC.	BLOWER RPM	MOTOR HP	MOTOR RPM	MOTOR POWER V-PH-HZ	MOTOR MCA	MOTOR MOCP	MOTOR DRIVE	SONES	OPERATING WEIGHT LBS	SUPPORT DETAIL	ACCESSORIES	REMARKS
BUILDING B																	
RF 1-1	SEASON-4 AH005/6ACE05-13SE	AHU 1-1	MEZZANINE FAN ROOM	12,500	1.25	1722	10.0	1725	460-3-60	17.0	25.0	-	103	1,300	-	1 2 3	-
RF 1-2	SEASON-4 AH005/6ACE05-07SE	AHU 1-2	MEZZANINE FAN ROOM	6,800	1.25	1607	5.0	1724	460-3-60	10.0	15.0	-	76	1,100	-	1 2 3	-

ACCESSORIES:

(1) VARI GREEN EC MOTOR WITH 0-10 VDC INPUT SIGNAL. (2) DISCONNECT BY ELECTRICAL. (3) BACKDRAFT DAMPER.

REMARKS:

SIDEWALL RETURN GRILLE SCHEDULE

SUPPLY AIR GRILLES

MARK OR SYMBOL (3)	TYPE	NECK SIZE (1)	FACE DIM (2)	CFM RANGE	DUCT CONN SIZE (4)	REMARKS
SWR CFM; ONE WAY FLOW; TWO WAY FLOW	MANUFACTURER TITUS 350RS (U.N.O.) VOLUME DAMPER IN BRANCH DUCT. CONSTRUCT FACE DIFFUSERS WITH DIRECTIONAL AIR PATTERN AND	6X6	IN ACOUSTICAL WALL, 30X14 FLUSH MOUNTED. UNLESS OTHERWISE NOTED ON PLANS. IN GYPSUM BOARD CEILING, SURFACE MOUNTED.	UP TO 100	7" DIA	UNLESS OTHERWISE NOTED ON DRAWINGS. (1) TO SUIT SIDE WALL SYSTEMS REFER TO ARCH DRAWINGS FOR FRAME STYLE TYPES. (2) ALL AIR DISTRIBUTION CORES TO PROVIDE EQUAL AIR FLOW IN EACH DIRECTION. (3) FURNISHED WITH SQUARE TO ROUND TRANSITION INLET COLLAR FOR EASY DUCT CONNECTION. (4) NOISE LEVEL NOT TO EXCEED NC 30 (U.N.O.) (5)
		8X8		101-150	8" DIA	
		10X10		151-200	9" DIA	
		12X12		201-300	10" DIA	
		14X12		301-400	11" DIA	
		16X12		401-500	12" DIA	
		18X12		501-700	14" DIA	
		20X12		901-1000	16" DIA	
		42X24		3800-4000	30"x18"	

SIDEWALL SUPPLY REGISTER SCHEDULE

SUPPLY AIR GRILLES

MARK OR SYMBOL (3)	TYPE	NECK SIZE (1)	FACE DIM (2)	CFM RANGE	DUCT CONN SIZE (4)	REMARKS
SWS CFM; ONE WAY FLOW; TWO WAY FLOW	LOUVERED FACE DIFFUSERS WITH DIRECTIONAL AIR PATTERN AND VOLUME DAMPER IN BRANCH DUCT. MANUFACTURER TITUS 300RS (U.N.O.)	6X6	IN ACOUSTICAL WALL, 30X14 FLUSH MOUNTED. UNLESS OTHERWISE NOTED ON PLANS. IN GYPSUM BOARD CEILING, SURFACE MOUNTED.	UP TO 100	7" DIA	UNLESS OTHERWISE NOTED ON DRAWINGS. (1) TO SUIT SIDE WALL SYSTEMS REFER TO ARCH DRAWINGS FOR FRAME STYLE TYPES. (2) ALL AIR DISTRIBUTION CORES TO PROVIDE EQUAL AIR FLOW IN EACH DIRECTION. (3) FURNISHED WITH SQUARE TO ROUND TRANSITION INLET COLLAR FOR EASY DUCT CONNECTION. (4) NOISE LEVEL NOT TO EXCEED NC 30 (U.N.O.) (5)
		8X8		101-150	8" DIA	
		10X10		151-200	9" DIA	
		12X12		201-300	10" DIA	
		14X12		301-400	11" DIA	
		16X12		401-500	12" DIA	
		18X12		501-700	14" DIA	
		20X12		901-1000	16" DIA	
		24X24		1250-1350	18"x14"	

SUPPLY CEILING DIFFUSER SCHEDULE

SUPPLY AIR DIFFUSERS

MARK OR SYMBOL (3)	TYPE	NECK SIZE (1)	FACE DIM (2)	CFM RANGE	DUCT CONN SIZE (4)	REMARKS
CD CFM; ONE WAY FLOW; TWO WAY FLOW; CORNER FLOW	LOUVERED FACE DIFFUSERS WITH DIRECTIONAL AIR PATTERN & VOLUME DAMPER IN BRANCH DUCT. MANUFACTURER TITUS MCD-AA (U.N.O.)	6X6	IN ACOUSTICAL CEILING, 24X24 OR 12x12 FLUSH MOUNTED, UNLESS OTHERWISE NOTED ON PLANS. IN GYPSUM BOARD CEILING, SURFACE MOUNTED.	UP TO 100	7" DIA	UNLESS OTHERWISE NOTED ON DRAWINGS. (1) TO SUIT CEILING GRID SYSTEMS REFER TO ARCH DRAWINGS FOR FRAME STYLE TYPES. (2) ALL AIR DISTRIBUTION CORES TO PROVIDE EQUAL AIR FLOW IN EACH DIRECTION. (3) FURNISHED WITH SQUARE TO ROUND TRANSITION INLET COLLAR FOR EASY DUCT CONNECTION. (4) NOISE LEVEL NOT TO EXCEED NC 30 (U.N.O.) (5)
		8X8		101-150	8" DIA	
		10X10		151-200	9" DIA	
		12X12		201-300	10" DIA	
		14X14		301-400	11" DIA	
		16X16		401-500	12" DIA	
		18X18		501-650	14" DIA	
THREE WAY FLOW; FOUR WAY FLOW		6X6		UP TO 125	8" DIA	
		8X8		126-200	9" DIA	
		10X10		201-300	10" DIA	
		12X12		301-400	11" DIA	
		14X14		401-550	12" DIA	
		16X16		551-700	14" DIA	
		18X18		701-900	14" DIA	

EXHAUST OR RETURN GRILLE SCHEDULE

RETURN & EXHAUST REGISTERS / GRILLES

MARK OR SYMBOL (3)	TYPE	NECK SIZE (1)	FACE DIM (2)	CFM RANGE	DUCT CONN SIZE (4) (5)	REMARKS
EG; OR; RG; EG CFM OR RG CFM	PERFORATED FACE EXHAUST OR RETURN GRILL WITH VOLUME DAMPER IN BRANCH DUCT. MANUFACTURER TITUS 50F (U.N.O.)	6 X 6	UNLESS OTHERWISE NOTED ON PLANS, IN ACOUSTICAL CEILING, 24X24 OR 12x12 FLUSH MOUNTED IN GYP BOARD CEILINGS & WALLS SURFACE MOUNTED.	UP TO 70	6" DIA	UNLESS OTHERWISE NOTED ON DRAWINGS. (1) TO SUIT CEILING GRID SYSTEMS REFER TO ARCH DRAWINGS FOR FRAME STYLE TYPES. (2) ALL AIR DISTRIBUTION CORES TO PROVIDE EQUAL AIR FLOW IN EACH DIRECTION. (3) FURNISHED WITH SQUARE TO ROUND TRANSITION INLET COLLAR FOR EASY DUCT CONNECTION. (4) NOISE LEVEL NOT TO EXCEED NC 30 (U.N.O.) (5)
		8 X 8		71-150	8" DIA	
		10 X 10		151-300	10" DIA	
		12 X 12		301-450	11" DIA	
		14 X 14		451-650	12" DIA	
		16 X 16		651-800	14" DIA	
		18 X 18		801-1000	15" DIA	
		20 X 20		1000-1300	16" DIA	

EXPOSED ROUND SUPPLY & RETURN REGISTER SCHEDULE

MARK OR SYMBOL (3)	TYPE	NECK SIZE (1)	FACE DIM (2)	CFM RANGE	MODULE SIZE (4)	REMARKS
RS; RR	IN BRANCH DUCT. MANUFACTURER TITUS TMR-AA (U.N.O.) EXPOSED ROUND CONE SUPPLY OR RETURN GRILLE WITH VOLUME DAMPER	6" ROUND	IN GYP BD CLG. & WALLS SURFACE MOUNTED. 24X24 OR 12x12 FLUSH MOUNTED. UNLESS OTHERWISE NOTED ON PLANS IN ACCUSTICAL CEILING	0-210	6" ROUND	UNLESS OTHERWISE NOTED ON DRAWINGS. (1) FRAME STYLE TYPES. TO SUIT CEILING GRID SYSTEMS REFER TO ARCH DRAWINGS FOR (2) ALL AIR DISTRIBUTION CORES TO PROVIDE EQUAL AIR FLOW IN EACH DIRECTION. (3) FOR EASY DUCT CONNECTION. FURNISHED WITH SQUARE TO ROUND TRANSITION INLET COLLAR (4) NOISE LEVEL NOT TO EXCEED NC 30 (U.N.O.) (5)
		8" ROUND		211-300	8" ROUND	
		10" ROUND		301-370	10" ROUND	
		12" ROUND		371-550	12" ROUND	
		14" ROUND		551-700	14" ROUND	
		16" ROUND		701-800	16" ROUND	
		18x18		801-1200	18x18	

REMARKS:

(1) MAXIMUM NC NOT TO EXCEED 30 FOR ALL ROOMS OTHER THAN THOSE SERVING OFFICES AND CONFERENCE ROOMS WHICH SHALL NOT EXCEED 25 NC.

(2) ALL EXPOSED DUCTWORK SHALL HAVE FINISHED APPEARANCE. SEE ARCHITECTURAL DRAWINGS FOR EXACT COLOR AND FINISHES.

DSA Stamp

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

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Sheet Title

Mechanical Schedules

Sheet Number

M002

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SPLIT HEAT PUMP SCHEDULE - INDOOR UNIT

SYMBOL	MANUFACTURER AND MODEL NO.	ROOM SERVED	AIRFLOW CFM	ESP IN	AMBIENT DB- °F.	LVG. AIR DB/WB °F.	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MCOP	ELECTRICAL V-Ø-HZ	OPERATING WEIGHT (LBS.)	ANCHORAGE DETAIL	REMARKS
BUILDING A													
FC 1-1	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-2	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-3	CARRIER FV4CNB006L00	-	1840	1.0	80	57.23 / 56.87	6.8	8.5	15	208-1-60	210	- -	1 2 9
FC 1-4	CARRIER FV4CNB006L00	-	1840	1.0	80	57.23 / 56.87	6.8	8.5	15	208-1-60	210	- -	1 2 9
BUILDING B													
FC 1-1	SAMSUNG AR18NSWXCWKNCV	-	550	-	-	- / -	-	-	-	-	32	- -	1 6
BUILDING CDC													
FC 1-1	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-2	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-3	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-4	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
BUILDING D													
FC 1-1	SAMSUNG AR12MSWXCWKNCV	-	350	-	-	- / -	-	-	-	-	23	- -	1 6
FC 1-2	SAMSUNG AC036NN4DCH/AA	-	1020	-	-	- / -	-	-	-	-	55	- -	1 6
FC 1-3	SAMSUNG AR12MSWXCWKNCV	-	350	-	-	- / -	-	-	-	-	23	- -	1 6
FC 1-4	SAMSUNG AR12MSWXCWKNCV	-	350	-	-	- / -	-	-	-	-	23	- -	1 6

SPLIT HEAT PUMP SCHEDULE - OUTDOOR UNIT

SYMBOL	MANUFACTURER AND MODEL NO.	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	SEER	EER	HSPF	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL V-Ø-HZ	REFRIGERANT LINES SUCTION	REFRIGERANT LINES LIQUID	OPERATING WEIGHT (LBS.)	ANCHORAGE DETAIL	REMARKS
BUILDING A															
CU 1-1	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- - - -	2 3
CU 1-2	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- - - -	2 3
CU 1-3	CARRIER 25HHA460A005	58.97	56.94	14	11.0	8.2	-	22.9	40	208-3-60	4 5	4 5	290	- - - -	2 3
CU 1-4	CARRIER 25HHA460A005	58.97	56.94	14	11.0	8.2	-	22.9	40	208-3-60	4 5	4 5	290	- - - -	2 3
BUILDING B															
CU 1-1	SAMSUNG AR18NSWXCWKXCV	18.0	20.6	20.0	13.0	10.0	-	19.0	30	208-1-60	4 5	4 5	124	- - - -	
BUILDING CDC															
CU 1-1	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- - - -	2 3
CU 1-2	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- - - -	2 3
CU 1-3	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- - - -	2 3
CU 1-4	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- - - -	2 3
BUILDING D															
CU 1-1	SAMSUNG AR12MSWXCWKXCV	12.0	13.6	19.5	11.4	9.5	-	11.1	15	208-1-60	4 5	4 5	73	- - - -	
CU 1-2	SAMSUNG AC036JXADCH/AA	36.0	40.0	20.5	12.1	9.5	-	22.08	35	208-1-60	4 5	4 5	194	- - - -	
CU 1-8	SAMSUNG AR12MSWXCWKXCV	12.0	13.6	19.5	11.4	9.5	-	11.1	15	208-1-60	4 5	4 5	73	- - - -	
CU 1-8	SAMSUNG AR12MSWXCWKXCV	12.0	13.6	19.5	11.4	9.5	-	11.1	15	208-1-60	4 5	4 5	73	- - - -	

1. PROGRAMMABLE THERMOSTAT, SECONDARY DRAIN FACTORY KIT
2. COMPLETE WITH DOWNFLOW BASE KIT AND PIPE STRAP
3. GROSS COOLING CAPACITY BASED ON 95° F TEMPERATURE OF AIR ENTERING CONDENSER.
4. REFRIGERANT PIPING SHALL BE INSULATED WITH SHEET METAL JACKETS
5. REFRIGERANT PIPING TO BE SIZED BY HEAT PUMP MANUFACTURER PROVIDE LONG LINE ACCESSORIES AS NEEDED
6. POWERED FROM OUTDOOR UNIT
7. PROVIDE OSA CONNECTION KIT
8. PROVIDE OVERFLOW SWITCH AND CONDENSATE PUMP AND INTERLOCKED WITH FAN COIL UNIT.
8. PROVIDE MIXIGN BOX AT BOTTOM OF THE FAN COIL UNIT. ~~PROVIDE SEPARATE POWER FOR MIXING BOX.~~

ROOF TOP HEAT PUMP PACKAGED UNIT SCHEDULE

TAG	MANUFACTURER MAKE	MANUFACTURER MODEL	TONS	ELECTRICAL FOR RTU POWER	BHP	MCA	MOCP	ELECTRICAL FOR POWER EXHAUST (P.E) MAKE, MODEL & TYPE	INT SP IN.WG.	MOTOR HP	MOTOR FLA	MOTOR MCA	MOTOR MOCP	POWER	ECONOMIZER MAKE & MODEL	SUPPLY FAN CFM	TOTAL SP IN.WG.	MIN OSA CFM	COOLING CAPACITY TOTAL (MBH)	SENSIBLE (MBH)	EER/IEER	SEER	EVAPORATOR COIL EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	HEATING (HEAT PUMP) INPUT (MBH)	OUTPUT (MBH)	EFF % (COP)	WEIGHT (LBS) RTU	CURB	P.E/ECON	TOTAL	MOUNT'G DETAIL	SEISMIC DETAILS	CONTROL DETAIL	REMARKS
BUILDING D (CAFETERIA)																																					
RTU 1-1	CARRIER	50HCQD12A2A5-0A0G0	10	230V-3Ø-60HZ	1.67	49.0	60.0	CANFAB MODEL 1178-MHPE030	0.75	3.0	10.8	13.5	24.3	230V-3Ø-60	CANFAB MODEL 1178-MHPE030	4000	1.00	600	123.51	93.78	12.30/13.6	-	80.0	67.0	57.7	58.3	111.39	148.0	3.5	1455	212	340	2,007	- - - -	- - THRU - -	- -	1 2 3 4 5
RTU 1-2	CARRIER	50HCQD12A2A5-0A0G0	10	230V-3Ø-60HZ	1.67	49.0	60.0	CANFAB MODEL 1178-MHPE030	0.75	3.0	10.8	13.5	24.3	230V-3Ø-60	CANFAB MODEL 1178-MHPE030	4000	1.00	600	123.51	93.78	12.30/13.6	-	80.0	67.0	57.7	58.3	111.39	148.0	3.5	1455	212	340	2,007	- - - -	- - THRU - -	- -	1 2 3 4 5

REMARKS
1. PROVIDE DUCT SMOKE DETECTOR ON SA DUCT PER FIRE ALARM DRAWINGS. PROVIDE CO MONITORS PER 2016 CBC 915. SEE FA SHEETS E8-3 THROUGH E8-11 AND 2/M701 FOR FURTHER INFORMATION.
2. PROVIDE 2" MERV 11 FILTER, PROGRAMMABLE THERMOSTAT TIED TO RTU.
3. PROVIDE ALL NECESSARY CONTROLS, EQUIPMENT, PROGRAMMING, WIRING AND CONDUITS FOR CONNECTION EXISTING CAMPUS EMS.
4. PROVIDE 0-100% FULLY MODULATING COMBO ECONOMIZER AND INTEGRAL POWER EXHAUST WITH DRY-BULB INTEGRATED CONTROL AND BAROMETRIC RELIEF. PROVIDE DUAL, SEPARATE POWER TO UNIT AND COMBO PE/ECONOMIZER. PROVIDE CARBON DIOXIDE (CO2) SENSOR FOR DCV CONTROL.
5. 11" HIGH ADJUSTABLE / PITCHED ROOF CURB.

DSA Stamp

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Mechanical Schedules

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M003

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SPLIT HEAT PUMP SCHEDULE - INDOOR UNIT

SYMBOL	MANUFACTURER AND MODEL NO.	ROOM SERVED	AIRFLOW CFM	ESP IN	AMBIENT DB- °F.	LVG. AIR DB/WB °F.	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MCOP	ELECTRICAL V-Ø-HZ	OPERATING WEIGHT (LBS.)	ANCHORAGE DETAIL	REMARKS
BUILDING E													
FC 1-1	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-2	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-3	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-4	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-5	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-24	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-25	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-26	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-27	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-28	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-29	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-30	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-1	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-2	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-3	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-4	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-5	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-6	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-7	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-8	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-9	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-10	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-11	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-12	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-13	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-14	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-15	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-16	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
BUILDING H													
FC 1-1	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-2	SAMSUNG AR18NSWXCWKNCV	-	550	-	-	- / -	-	-	-	-	32	- -	1 6
FC 1-3	SAMSUNG AR12MSWXCWKNCV	-	350	-	-	- / -	-	-	-	-	23	- -	1 6
BUILDING K													
FC 1-1	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-2	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 1-3	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-1	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-2	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2
FC 2-3	CARRIER FV4CNB006L00	-	1600	0.85	80	58.92 / 57.67	6.8	8.5	15	208-1-60	210	- -	1 2

SPLIT HEAT PUMP SCHEDULE - OUTDOOR UNIT

SYMBOL	MANUFACTURER AND MODEL NO.	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	SEER	EER	HSPF	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL V-Ø-HZ	REFRIGERANT LINES SUCTION	REFRIGERANT LINES LIQUID	OPERATING WEIGHT (LBS.)	ANCHORAGE DETAIL	REMARKS
CU 1-1	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-2	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-3	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-4	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-5	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-24	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-25	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-26	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-27	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-28	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-29	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-30	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-1	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-2	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-3	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-4	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-5	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-6	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-7	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-8	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-9	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-10	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-11	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-12	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-13	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-14	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-15	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-16	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-1	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-2	SAMSUNG AR18NSWXCWKXCV	18.0	20.6	20.0	13.0	10.0	-	19.0	30	208-1-60	4 5	4 5	124	- -	
CU 1-3	SAMSUNG AR12MSWXCWKXCV	12.0	13.6	19.5	11.4	9.5	-	11.1	15	208-1-60	4 5	4 5	73	- -	
CU 1-1	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-2	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 1-3	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-1	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-2	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	
CU 2-3	CARRIER 25HHA448A005	47.66	47.09	15	12.0	8.5	-	18.6	30	208-3-60	4 5	4 5	280	- -	

1. PROGRAMMABLE THERMOSTAT, SECONDARY DRAIN FACTORY KIT
2. COMPLETE WITH DOWNFLOW BASE KIT AND PIPE STRAP
3. GROSS COOLING CAPACITY BASED ON 95° F TEMPERATURE OF AIR ENTERING CONDENSER.
4. REFRIGERANT PIPING SHALL BE INSULATED WITH SHEET METAL JACKETS
5. REFRIGERANT PIPING TO BE SIZED BY HEAT PUMP MANUFACTURER PROVIDE LONG LINE ACCESSORIES AS NEEDED
6. POWERED FROM OUTDOOR UNIT
7. PROVIDE OSA CONNECTION KIT
8. PROVIDE OVERFLOW SWITCH AND CONDENSATE PUMP AND INTERLOCKED WITH FAN COIL UNIT.

DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
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Sheet Title
Mechanical Schedules

Sheet Number
M004

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VARIABLE REFRIGERANT FLOW (VRF) SYSTEM HEAT PUMP INDOOR FAN COIL UNIT SCHEDULE

SYMBOL	MFGR.	MODEL	SERVICE	LOCATION	SERVED BY OUTDOOR UNIT	COOLING CAP. (TOTAL) (BTU/HR)	COOLING INPUT POWER (W)	HEATING CAP. (TOTAL) (BTU/HR)	HEATING INPUT POWER (W)	SUPPLY FAN DATA			OSA (CFM)	ELECTRICAL				WEIGHT (LBS)	ANCHORAGE	ACCESSORIES	REMARKS
										CFM	ESP (INWG)	KW		POWER V-Ø-HZ	TOTAL FLA	MCA	MAX FUSE SIZE				
BUILDING A																					
FC 1-5	SAMSUNG	AM012MNVDCH/AA	-	-	OU 1-1	12,000	20	13,500	28	250	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
FC 1-6	SAMSUNG	AM012MNVDCH/AA	-	-	OU 1-1	12,000	20	13,500	28	250	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
FC 1-7	SAMSUNG	AM012MNVDCH/AA	-	-	OU 1-1	12,000	20	13,500	28	250	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
FC 1-8	SAMSUNG	AM012MNVDCH/AA	-	-	OU 1-1	12,000	20	13,500	28	250	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
BUILDING CDC																					
FC 1-5	SAMSUNG	AM018MNVDCH/AA	-	-	OU 1-1	18,000	27	20,000	37	400	-	-	-	208V-1Ø-60	-	-	-	35	-	1 2	1 2
FC 1-6	SAMSUNG	AM012MNVDCH/AA	-	-	OU 1-1	12,000	20	13,500	28	250	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
FC 1-7	SAMSUNG	AM009MNVDCH/AA	-	-	OU 1-1	9,500	16	10,500	24	200	-	-	-	208V-1Ø-60	-	-	-	20	-	1 2	1 2
FC 1-8	SAMSUNG	AM009MNVDCH/AA	-	-	OU 1-1	9,500	16	10,500	24	200	-	-	-	208V-1Ø-60	-	-	-	20	-	1 2	1 2
FC 1-9	SAMSUNG	AM009MNVDCH/AA	-	-	OU 1-1	9,500	16	10,500	24	200	-	-	-	208V-1Ø-60	-	-	-	20	-	1 2	1 2
FC 1-10	SAMSUNG	AM009MNVDCH/AA	-	-	OU 1-1	9,500	16	10,500	24	200	-	-	-	208V-1Ø-60	-	-	-	20	-	1 2	1 2
FC 1-11	SAMSUNG	AM007MNVDCH/AA	-	-	OU 1-1	7,500	15	8,500	18	190	-	-	-	208V-1Ø-60	-	-	-	20	-	1 2	1 2
BUILDING E																					
FC 1-6	SAMSUNG	AM012MNVDCH/AA	-	-	OU 1-3	12,000	20	13,500	28	250	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
FC 1-7	SAMSUNG	AM012MNVDCH/AA	-	-	OU 1-3	12,000	20	13,500	28	250	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
FC 1-8	SAMSUNG	AM012MNVDCH/AA	-	-	OU 1-3	12,000	20	13,500	28	250	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
FC 1-9	SAMSUNG	AM012MNVDCH/AA	-	-	OU 1-3	12,000	20	13,500	28	250	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
FC 1-10	SAMSUNG	AM012MNVDCH/AA	-	-	OU 1-3	12,000	20	13,500	28	250	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
FC 1-11	SAMSUNG	AM015MNVDCH/AA	-	-	OU 1-3	15,000	31	17,000	41	310	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
FC 1-12	SAMSUNG	AM012MNVDCH/AA	-	-	OU 1-3	12,000	20	13,500	28	250	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
FC 1-13	SAMSUNG	AM007MNVDCH/AA	-	-	OU 1-3	7,500	15	8,500	18	190	-	-	-	208V-1Ø-60	-	-	-	20	-	1 2	1 2
FC 1-14	SAMSUNG	AM024MNVDCH/AA	-	-	OU 1-1	24,000	41	27,000	53	525	-	-	-	208V-1Ø-60	-	-	-	35	-	1 2	1 2
FC 1-15	SAMSUNG	AM018MNVDCH/AA	-	-	OU 1-1	18,000	27	20,000	37	400	-	-	-	208V-1Ø-60	-	-	-	35	-	1 2	1 2
FC 1-16	SAMSUNG	AM018RN4DCH/AA	-	-	OU 1-1	18,000	45	20,000	45	740	-	-	-	208V-1Ø-60	-	-	-	40	-	1 2	1 2
FC 1-17	SAMSUNG	AM018RN4DCH/AA	-	-	OU 1-1	18,000	45	20,000	45	740	-	-	-	208V-1Ø-60	-	-	-	40	-	1 2	1 2
FC 1-18	SAMSUNG	AM018RN4DCH/AA	-	-	OU 1-2	18,000	45	20,000	45	740	-	-	-	208V-1Ø-60	-	-	-	40	-	1 2	1 2
FC 1-19	SAMSUNG	AM018RN4DCH/AA	-	-	OU 1-2	18,000	45	20,000	45	740	-	-	-	208V-1Ø-60	-	-	-	40	-	1 2	1 2
FC 1-20	SAMSUNG	AM007MNVDCH/AA	-	-	OU 1-2	7,500	15	8,500	18	190	-	-	-	208V-1Ø-60	-	-	-	20	-	1 2	1 2
FC 1-21	SAMSUNG	AM007MNVDCH/AA	-	-	OU 1-2	7,500	15	8,500	18	190	-	-	-	208V-1Ø-60	-	-	-	20	-	1 2	1 2
FC 1-22	SAMSUNG	AM012MNVDCH/AA	-	-	OU 1-2	12,000	20	13,500	28	250	-	-	-	208V-1Ø-60	-	-	-	25	-	1 2	1 2
FC 1-23	SAMSUNG	AM018MNVDCH/AA	-	-	OU 1-2	18,000	27	20,000	37	400	-	-	-	208V-1Ø-60	-	-	-	35	-	1 2	1 2

ACCESSORIES:

1. PROVIDE CONDENSATE PUMP (PROVIDE POWER FROM INDOOR UNIT).
2. PROVIDE HARDWIRED THERMOSTAT.

REMARKS:

1. FCU SHALL BE WALL MOUNTED IN ROOM SERVED.
2. PROVIDE ELECTRICAL POWER WIRING, DISCONNECT SWITCH & CONDUIT. PROVIDE CONTROL WIRING & CONDUIT.

VARIABLE REFRIGERANT FLOW (VRF) SYSTEM HEAT PUMP OUTDOOR CONDENSING UNIT SCHEDULE

SYMBOL	MFGR.	MODEL	TONS	SERVICE	LOCATION	COOLING CAPACITY (BTUH)	EER	HEATING CAPACITY (BTUH)	HSPF	ELECTRICAL				SUCTION LINE SIZE	LIQUID LINE SIZE	WEIGHT (LBS)	REF TYPE	ANCHORAGE	ACCESSORIES	REMARKS
										POWER V/Ø-HZ	TOTAL FLA	MCA	MOCP							
BUILDING A																				
OU 1-1	SAMSUNG	AM048FXMDCH/AA	4	FC 1-5 THRU FC 1-8	GROUND	48,000	-	54,000	-	208V-3Ø-60	-	29	50	3	3	220	R410A	-	1	1 2 3
BUILDING CDC																				
OU 1-1	SAMSUNG	AM072FXVAFH2AA	6	FC 1-5 THRU FC 1-11	ROOF	72,000	-	81,000	-	208V-3Ø-60	-	28	35	3	3	450	R410A	-	1	1 2 3
BUILDING E																				
OU 1-1	SAMSUNG	AM096FXVAFH2AA	8	FC 1-14 THRU FC 1-17	ROOF	96,000	-	108,000	-	208V-3Ø-60	-	37.8	50	3	3	685	R410A	-	1	1 2 3
OU 1-2	SAMSUNG	AM096FXVAFH2AA	8	FC 1-18 THRU FC 1-23	ROOF	96,000	-	108,000	-	208V-3Ø-60	-	37.8	50	3	3	685	R410A	-	1	1 2 3
OU 1-3	SAMSUNG	AM096FXVAFH2AA	8	FC 1-6 THRU FC 1-13	ROOF	96,000	-	108,000	-	208V-3Ø-60	-	37.8	50	3	3	685	R410A	-	1	1 2 3

ACCESSORIES:

1. COMPLETE WITH HIGH/LOW PRESSURE SWITCH, START CAPACITOR, COMPRESSOR SHORT CYCLE PROTECTOR, AND LOW AMBIENT CONTROLLER .

REMARKS:

1. COOLING CAP OF OUTDOOR CONDENSING UNIT PER INDOOR UNIT SCHEDULE THIS SHEET.
2. REFER TO SHEET M7.04 FOR REFRIGERANT PIPE SIZE, PIPE QUANTITY AND ROUTING. VRF MANUFACTURER TO CHECK AND APPROVE VRF PIPING LAYOUT, PIPING QUANTITY, SIZING AND CONNECTION PRIOR TO INSTALLATION.
3. WIND BAFFLE ACCESSORIES.

DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

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Sheet Title

Mechanical Schedules

Sheet Number

M005

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EXHAUST AND SUPPLY FAN SCHEDULE

SYMBOL	MANUFACTURER AND MODEL NO.	SERVICE	LOCATION	BLOWER CFM	BLOWER TSP IN. WC.	BLOWER RPM	MOTOR HP	MOTOR RPM	MOTOR POWER V-PH-HZ	MOTOR DRIVE	SONES	OPERATING WEIGHT LBS	SUPPORT DETAIL	ACCESSORIES	REMARKS
BUILDING B															
EF 1-1	COOK GC-542	RESTROOM	CEILING	313	0.5	1600	111 WATTS	-	115-1-60	CEILING FAN	-	37	-	1 2 3	3
EF 1-2	COOK GC-542	RESTROOM	CEILING	313	0.5	1600	111 WATTS	-	115-1-60	CEILING FAN	-	37	-	1 2 3	3
BUILDING C															
EF 2-1	COOK 100C1DEC	ROOM 263	ROOF	450	0.75	1710	1/4	1725	115-1-60	DIRECT	8.8	60	-	1 2 3	-
EF 2-2	COOK 120 CPV	CLASSROOM 262	ROOF	1600	0.5	1783	1/2	1725	115-1-60	BELT	-	330	-	3 9 10 11	2
EF 2-3	COOK 165 CPS	CLASSROOM 264	ROOF	2700	0.5	1264	3/4	1725	115-1-60	BELT	-	490	-	3 9 10 11	2
EF 2-4	COOK 180 CPV	CLASSROOM 261	ROOF	3500	0.5	1059	3/4	1725	115-1-60	BELT	-	530	-	3 9 10 11	2
EF 2-5	COOK 135 CPV	CLASSROOM 265	ROOF	2300	0.5	1756	3/4	1725	115-1-60	BELT	-	380	-	3 9 10 11	2
EF 2-6	COOK 180 CPV	CLASSROOM 259	ROOF	3500	0.5	1059	3/4	1725	115-1-60	BELT	-	530	-	3 9 10 11	2
EF 2-7	COOK 120 CPV	CLASSROOM 258	ROOF	1600	0.5	1783	1/2	1725	115-1-60	BELT	-	330	-	3 9 10 11	2
EF 2-8	COOK 100C1DEC	ROOM 257	ROOF	450	0.75	1710	1/4	1725	115-1-60	DIRECT	8.8	60	-	1 2 3	-
EF 2-9	COOK 150 CPV	CLASSROOM 256	ROOF	2600	0.5	1531	3/4	1725	115-1-60	BELT	-	425	-	3 9 10 11	2
EF 2-10	COOK 150 CPS	CLASSROOM 255	ROOF	2400	0.5	1474	3/4	1725	115-1-60	BELT	-	425	-	3 9 10 11	2
EF 2-11	COOK 120C15D	GIRL'S RESTROOM & BOY'S RESTROOM	ROOF	1440	0.5	1550	1/4	1550	115-1-60	DIRECT	-	78	-	1 2 3	3
SF 2-1	KLEAN AIRE P-2	CLASSROOM 262	ROOF	1600	1.5	-	2	-	460-3-60	DIRECT	-	430	-	5 6	1
SF 2-2	KLEAN AIRE P-3	CLASSROOM 264	ROOF	2700	1.5	-	3	-	460-3-60	DIRECT	-	500	-	5 7	1
SF 2-3	KLEAN AIRE P-4	CLASSROOM 261	ROOF	3500	1.5	-	3	-	460-3-60	DIRECT	-	580	-	5 8	1
SF 2-4	KLEAN AIRE P-3	CLASSROOM 265	ROOF	2300	1.5	-	3	-	460-3-60	DIRECT	-	500	-	5 7	1
SF 2-5	KLEAN AIRE P-4	CLASSROOM 259	ROOF	3500	1.5	-	3	-	460-3-60	DIRECT	-	580	-	5 8	1
SF 2-6	KLEAN AIRE P-3	CLASSROOM 258	ROOF	1600	1.5	-	2	-	460-3-60	DIRECT	-	430	-	5 6	1
SF 2-7	KLEAN AIRE P-3	CLASSROOM 256	ROOF	2600	1.5	-	3	-	460-3-60	DIRECT	-	500	-	5 7	1
SF 2-8	KLEAN AIRE P-3	CLASSROOM 255	ROOF	2400	1.5	-	3	-	460-3-60	DIRECT	-	500	-	5 7	1
BUILDING CDC															
SF 1-1	COOK 90SQN12D	OFFICE & KITCHEN	CORRIDOR	250	0.5	1600	1/6	1200	115-1-60	DIRECT	-	80	-	1 2 3 4	-
EF 1-1	COOK GC-168	LOCKER ROOM	CEILING	150	0.35	1160	55 WATTS	-	115-1-60	CEILING FAN	-	25	-	1 2 3	3
EF 1-2	COOK GC-146	RESTROOM	CEILING	60	0.35	900	35 WATTS	-	115-1-60	CEILING FAN	-	25	-	1 2 3	3
EF 1-3	COOK GC-148	RESTROOM	CEILING	100	0.35	1075	46 WATTS	-	115-1-60	CEILING FAN	-	25	-	1 2 3	3
EF 1-4	COOK GC-148	RESTROOM	CEILING	100	0.35	1075	46 WATTS	-	115-1-60	CEILING FAN	-	25	-	1 2 3	3
BUILDING D															
EF 1-1	COOK 300V08D	KITCHEN HOOD	ROOF	8,600	1.65	799	5.0	0860	208-3-60	DIRECT	19.9	621	-	1 2 3	BMS INTERLOCK WITH EC 1-1.
EF 1-2	COOK GC-148	LOCKER ROOM	CEILING	122	0.5	1075	46 WATTS	-	115-1-60	CEILING FAN	-	29	-	1 2 3	3
EF 1-3	COOK GC-146	RESTROOM	CEILING	79	0.5	900	35 WATTS	-	115-1-60	CEILING FAN	-	29	-	1 2 3	3

ACCESSORIES:
1 VARI GREEN EC MOTOR WITH 0-10 VDC INPUT SIGNAL. 2 DISCONNECT BY ELECTRICAL. 3 BACKDRAFT DAMPER. 4 FILTER BOX. 5 PROVIDE COASTAL ENTIRE UNIT COATING. 6 (1) 24"x24"x2" MERV 13 PANEL FILTER
7 (1) 24"x24"x2", (1) 12"x24"x2" MERV 13 PANEL FILTER 8 (2) 24"x24"x2" MERV 13 PANEL FILTER 9 BIRD SCREEN. 10 ISOLATION SPRINGS. 11 PROVIDE VFD.

REMARKS:
1 NEMA-1 TOOGLE SWITCH 2 SIDE DISCHARGE 3 REPLACE IN KIND; CONTRACTOR TO VERIFY MODEL #, HP, CFM, AND STATIC PRESSURE BEFORE DEMOLITION WORK, AND REBALANCE NEW FAN TO THE PRE-READ CFM QUANTITIES AND STATIC PRESSURES.

EXHAUST AND SUPPLY FAN SCHEDULE

SYMBOL	MANUFACTURER AND MODEL NO.	SERVICE	LOCATION	BLOWER CFM	BLOWER TSP IN. WC.	BLOWER RPM	MOTOR HP	MOTOR RPM	MOTOR POWER V-PH-HZ	MOTOR DRIVE	SONES	OPERATING WEIGHT LBS	SUPPORT DETAIL	ACCESSORIES	REMARKS
BUILDING E															
SF 1-1	COOK 90SQN12D	ADMIN AREA	ADMIN AREA	200	0.5	1600	1/6	1200	115-1-60	DIRECT	-	80	-	1 2 3 4	-
SF 1-2	COOK 90SQN12D	ADMIN AREA	ADMIN AREA	200	0.5	1600	1/6	1200	115-1-60	DIRECT	-	80	-	1 2 3 4	-
SF 1-3	COOK 90SQN12D	ADMIN AREA	ADMIN AREA	200	0.5	1600	1/6	1200	115-1-60	DIRECT	-	80	-	1 2 3 4	-
SF 1-4	COOK 90SQN12D	ADMIN AREA	ADMIN AREA	200	0.5	1600	1/6	1200	115-1-60	DIRECT	-	80	-	1 2 3 4	-
SF 2-1	KLEAN AIRE P-3	CLASSROOM 222	ROOF	3000	1.5	-	3	-	460-3-60	DIRECT	-	500	-	5 7	1
SF 2-2	KLEAN AIRE P-3	CLASSROOM 220	ROOF	3000	1.5	-	3	-	460-3-60	DIRECT	-	500	-	5 7	1
SF 2-3	KLEAN AIRE P-3	CLASSROOM 216	ROOF	3000	1.5	-	3	-	460-3-60	DIRECT	-	500	-	5 7	1
SF 2-4	KLEAN AIRE P-4	CLASSROOM 216	ROOF	3500	1.5	-	3	-	460-3-60	DIRECT	-	580	-	5 8	1
SF 2-5	KLEAN AIRE P-4	CLASSROOM 212	ROOF	3500	1.5	-	3	-	460-3-60	DIRECT	-	580	-	5 8	1
SF 2-6	KLEAN AIRE P-3	CLASSROOM 210	ROOF	2500	1.5	-	3	-	460-3-60	DIRECT	-	500	-	5 7	1
EF 1-1	COOK GC-740	RESTROOM	CEILING	675	0.5	1625	316 WATTS	-	115-1-60	CEILING FAN	-	25	-	1 2 3	3
EF 1-2	COOK GC-146	RESTROOM	CEILING	90	0.25	900	35 WATTS	-	115-1-60	CEILING FAN	-	25	-	1 2 3	3
EF 1-3	COOK GC-128	RESTROOM	CEILING	63	0.25	750	29 WATTS	-	115-1-60	CEILING FAN	-	20	-	1 2 3	3
EF 1-4	COOK GC-148	RESTROOM	CEILING	135	0.25	1075	246 WATTS	-	115-1-60	CEILING FAN	-	25	-	1 2 3	3
EF 1-5	COOK GC-822	RESTROOM	CEILING	770	0.5	910	196 WATTS	-	115-1-60	CEILING FAN	-	102	-	1 2 3	3
EF 1-6	COOK 120C15D	RESTROOM	ROOF	1100	0.5	1322	1/4	1550	115-1-60	DIRECT	-	90	-	1 2 3	3
EF 1-7	COOK 100C15DH	RESTROOM	ROOF	550	0.5	1548	1/8	1550	115-1-60	DIRECT	-	55	-	1 2 3	3
EF 2-1	COOK 180C10D	CLASSROOM 222	ROOF	3000	0.5	990	3/4	1075	115-1-60	DIRECT	-	135	-	1 2 3	
EF 2-2	COOK 180C10D	CLASSROOM 220	ROOF	3000	0.5	990	3/4	1075	115-1-60	DIRECT	-	135	-	1 2 3	
EF 2-3	COOK 180C10D	CLASSROOM 216	ROOF	3000	0.5	990	3/4	1075	115-1-60	DIRECT	-	135	-	1 2 3	
EF 2-4	COOK 180C10D	CLASSROOM 216	ROOF	3500	0.5	1058	3/4	1075	115-1-60	DIRECT	-	155	-	1 2 3	
EF 2-5	COOK 180C10D	CLASSROOM 212	ROOF	3500	0.5	1058	3/4	1075	115-1-60	DIRECT	-	155	-	1 2 3	
EF 2-6	COOK 180C10D	CLASSROOM 210	ROOF	2500	0.5	1374	3/4	1550	115-1-60	DIRECT	-	95	-	1 2 3	
EF 2-7	COOK GC-622	RESTROOM	CEILING	470	0.25	1400	141 WATTS	-	115-1-60	CEILING FAN	-	55	-	1 2 3	3
EF 2-8	COOK GC-148	RESTROOM	CEILING	110	0.25	1075	46 WATTS	-	115-1-60	CEILING FAN	-	30	-	1 2 3	3
EF 2-9	COOK GC-642	RESTROOM	CEILING	520	0.25	1500	183 WATTS	-	115-1-60	CEILING FAN	-	55	-	1 2 3	3
BUILDING H															
EF 1-1	COOK 165 CPV	GYMNASIUM	ROOF	3000	0.5	1339	1	1725	230-1-60	BELT	-	400	-	1 2 3	-
EF 1-2	COOK 120C13D	LOCKER ROOM	ROOF	1100	0.35	1300	1/4	1300	115-1-60	DIRECT	-	75	-	1 2 3	-
EF 1-3	COOK 120C13D	LOCKER ROOM	ROOF	1100	0.35	1300	1/4	1300	115-1-60	DIRECT	-	75	-	1 2 3	-
EF 1-4	COOK 100C10DH	RESTROOM	ROOF	235	0.35	1050	1/25	1050	115-1-60	DIRECT	-	60	-	1 2 3	3
EF 1-5	COOK 90C15DL	RESTROOM	ROOF	300	0.35	1715	1/8	1550	115-1-60	DIRECT	-	60	-	1 2 3	3
EF 1-6	COOK GC-148	JANITOR	CEILING	100	0.25	1075	46 WATTS	-	115-1-60	CEILING FAN	-	25	-	1 2 3	3
EF 1-7	COOK 90C10DM	RESTROOM	ROOF	240	0.25	1100	1/25	1050	115-1-60	DIRECT	-	60	-	1 2 3	3
SF 1-1	COOK 70SQN-B	OFFICES	CEILING	100	0.3	1151	1/6	1140	115-1-60	DIRECT	-	127	-	1 2 3 4	-
BUILDING K															
EF 1-1	COOK GC-138	ELECTRICAL 311A	CEILING	150	0.35	1160	55 W	-	115-1-60	DIRECT	3.5	16	-	1 2 3	-
EF 1-2	COOK GC-146	RESTROOM	CEILING	75	0.35	900	35 WATTS	-	115-1-60	CEILING FAN	-	25	-	1 2 3	3
EF 2-1	COOK GC-148	JANITOR	CEILING	120	0.35	1075	46 WATTS	-	115-1-60	CEILING FAN	-	25	-	1 2 3	3
EF 2-2	COOK GC-146	RESTROOM	CEILING	75	0.35	900	35 WATTS	-	115-1-60	CEILING FAN	-	25	-	1 2 3	3

ACCESSORIES:
VARI GREEN EC MOTOR WITH 0-10 VDC INPUT SIGNAL. 2 DISCONNECT BY ELECTRICAL. 3 BACKDRAFT DAMPER. 4 FILTER BOX. 5 PROVIDE COASTAL ENTIRE UNIT COATING. 6 (1) 24"x24"x2" MERV 13 PANEL FILTER
7 (1) 24"x24"x2", (1) 12"x24"x2" MERV 13 PANEL FILTER 8 (2) 24"x24"x2" MERV 13 PANEL FILTER 9 BIRD SCREEN. 10 ISOLATION SPRINGS. 11 PROVIDE VFD.

REMARKS:
1 NEMA-1 TOOGLE SWITCH 2 SIDE DISCHARGE 3 REPLACE IN KIND; CONTRACTOR TO VERIFY MODEL #, HP, CFM, AND STATIC PRESSURE BEFORE DEMOLITION WORK, AND REBALANCE NEW FAN TO THE PRE-READ CFM QUANTITIES AND STATIC PRESSURES.

DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

Date: .....
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

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Sheet Title
Mechanical Schedules

Sheet Number
M006

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FORCED AIR FURNACE UNIT SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO.	AREA SERVED	LOCATION	BMS INTERLOCK WITH	SUPPLY AIR BLOWER CFM	SUPPLY AIR BLOWER TSP ("WC)	SUPPLY AIR BLOWER TSP ("WC)	SUPPLY AIR BLOWER BHP	SUPPLY AIR BLOWER RPM	MOTOR HP	MOTOR VOLTAGE	MOTOR MCA	MOTOR MOP	HEATING FURNACE INPUT MBH	HEATING FURNACE OUTPUT MBH	HEATING FURNACE GAS CONN	HEATING FURNACE EFF	FILTER	AREA SMOKE DETECTOR SHUT DOWN	OPER. WEIGHT (LBS.)	ANCHORAGE DETAIL REFERENCE	REMARKS
BUILDING H																						
FAU 1-1	REZNOR PDH-125	GIRL'S LOCKER	GIRL'S LOCKER	(N/A)	1,250	0.574	0.5	-	866	1/3	240-1-60	-	-	-	101	-	81%	- -	-	590	- M-	1 2
FAU 1-2	REZNOR RDH-300	GYMNASIUM	ROOF	EF -	3,000	0.82	0.6	-	900	1.5	208-3-60	-	-	-	243	-	81%	- -	-	1,350	- M-	1 2

1 INTERLOCK MAF-1 WITH EF-. SEE KITCHEN DWG K-702 FOR ADDITIONAL PROVISIONS.
2 ROOF CURB ARE BY MANUFACTURE. VERIFY SLOPE OF ROOF WITH ARCHITECTURAL ROOF PLANS.
3 VERTICAL DISCHARGE AND TWO STAGE GAS VALVE.

EVAPORATIVE COOLER SCHEDULE

SYMBOL	MANUFACTURER & MODEL NO.	AREA SERVED	LOCATION	BMS INTERLOCK WITH	SUPPLY AIR BLOWER CFM	SUPPLY AIR BLOWER TSP ("WC)	SUPPLY AIR BLOWER TSP ("WC)	SUPPLY AIR BLOWER BHP	SUPPLY AIR BLOWER RPM	MOTOR HP	MOTOR VOLTAGE	MOTOR AMPS	PUMP 4 MODEL	PUMP 4 VOLTAGE	PUMP 4 AMPS	PUMP 4 WATTS	PUMP 4 GPM	FILTER PAD DIMS (INCHES) NO. REQ'D	FILTER PAD DIMS (INCHES) HEIGHT	FILTER PAD DIMS (INCHES) WIDTH	OPER. WEIGHT (LBS.)	ANCHORAGE DETAIL REFERENCE	REMARKS
BUILDING D																							
EC 1-1	CHAMPION ASPEN COOLER MODEL 10/12 SD	KITCHEN HOOD	ROOF	EF 1-1	7,500	1.00	0.50	1.5	354	1.5	208-3-60	6.6	110467	115-1-60	1.2	73	4.6	3	27	22	769	- M-	1 2 3

1 COMPLETE WITH 1039 INTERFACE CONTROL PANEL FOR BLOWER/EVAPORATIVE COOLER AND MOTOR STARTER.
2 ROOF CURB ARE BY MANUFACTURE. VERIFY SLOPE OF ROOF WITH ARCHITECTURAL ROOF PLANS.
3 SIDE DISCHARGE UNIT.
4 PROVIDE SEPARATE POWER TO PUMP.

GRAVITY RELIEF VENTILATOR SCHEDULE

SYMBOL	MANUFACTURER AND MODEL NO.	SERVICE	LOCATION	VOLUME CFM	SP IN. WC.	CURB (IN.) (W x L)		OPERATING WEIGHT LBS	SUPPORT DETAIL	ACCESSORIES	REMARKS
BUILDING B											
GR 1-1	COOK 12x36GR	AUDITORIUM STAGE/STORAGE	ROOF	1500	0.051	32	32	166	-	1 2 3	
GR 1-2	COOK 20 TR	AUDITORIUM STAGE/STORAGE	ROOF	1586	0.050	31	51	251	-	1 2 3	
BUILDING											

ACCESSORIES:
1 BACKDRAFT DAMPER. 2 ROOF CURB. 3 BIRD SCREEN.

REMARKS:

GRAVITY INTAKE VENTILATOR SCHEDULE

SYMBOL	MANUFACTURER AND MODEL NO.	SERVICE	LOCATION	VOLUME CFM	SP IN. WC.	CURB (IN.) (W x L)		OPERATING WEIGHT LBS	SUPPORT DETAIL	ACCESSORIES	REMARKS
BUILDING C											
GI 2-1	GREENHECK GRSI-24	ROOM 263	ROOF	375	0.002	34	34	57	-	1 2 3	
GI 2-2	GREENHECK GRSI-24	ROOM 257	ROOF	375	0.002	34	34	57	-	1 2 3	
BUILDING E											
GI 2-1	COOK 12 TR	CLASSROOM 222	ROOF	550	0.125	20	20	50	-	1 2 3	
GI 2-2	COOK 12 TR	CLASSROOM 220	ROOF	550	0.125	20	20	50	-	1 2 3	
GI 2-3	COOK 12 TR	CLASSROOM 216	ROOF	550	0.125	20	20	50	-	1 2 3	
GI 2-4	COOK 12 TR	CLASSROOM 216	ROOF	600	0.125	20	20	50	-	1 2 3	
GI 2-5	COOK 12 TR	CLASSROOM 212	ROOF	600	0.125	20	20	50	-	1 2 3	
GI 2-6	COOK 8 TR	CLASSROOM 210	ROOF	500	0.125	20	20	50	-	1 2 3	

ACCESSORIES:
1 BACKDRAFT DAMPER. 2 ROOF CURB. 3 BIRD SCREEN.

REMARKS:

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Architect

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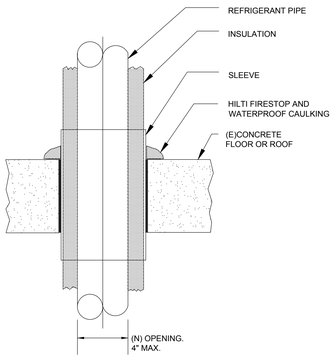
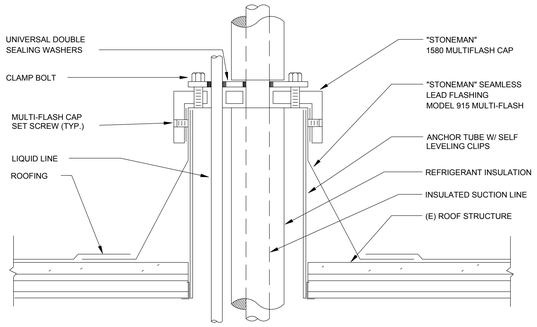


NOTES:

1. PROVIDE 16" MIN. SPACING BETWEEN ADJACENT OPENINGS.
2. DO NOT CUT OR DAMAGE REBAR IN EXISTING SLAB.

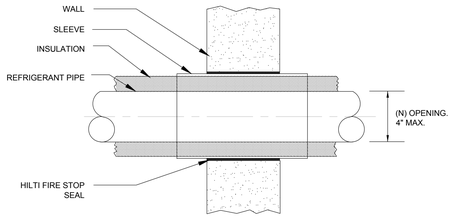
REFRIGERANT PIPE FLOOR PENETRATION — SCALE NONE — 9



NOTE:

1. INSTALL MULTIFLASH ASSEMBLY PER MANUFACTURER'S INSTRUCTIONS
2. CONTROL & POWER WIRING/CONDUIT MAY RUN THRU FLASHING ASSEMBLY (VERIFY).
3. MUTLI-FLASH ASSY.

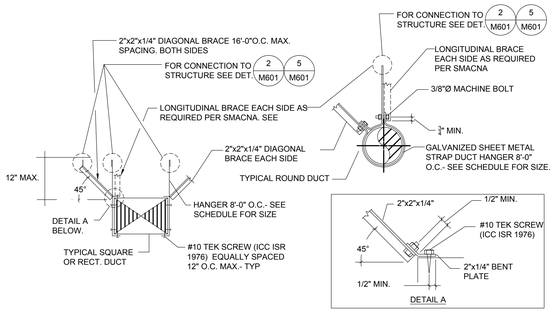
REFRIGERANT PIPING THRU ROOF DETAIL — SCALE NONE — 6



NOTES:

1. PROVIDE 16" MIN. SPACING BETWEEN ADJACENT OPENINGS.
2. DO NOT CUT OR DAMAGE REBAR IN EXISTING CONCRETE WALL.
3. DO NOT CUT OR DAMAGE EXISTING WALL STUDS.

WALL REFRIGERANT PIPE PENETRATION DETAIL — SCALE NONE — 3

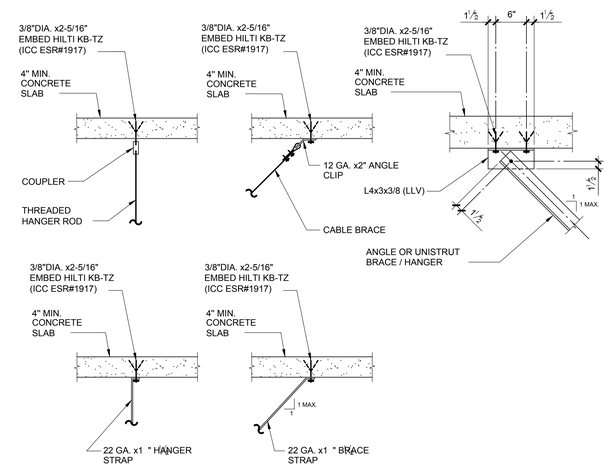


RECTANGULAR DUCT		ROUND DUCT	
MAX. OF DUCT PERIMETER/IN.	STRAP	DIAMETER /INCHES	STRAP
P/2 =72	1"X 20 GA.	UP TO 20"	1"X 20 GA.
P/2 =96	1"X 18 GA.	21" TO 36"	1"X 18 GA.

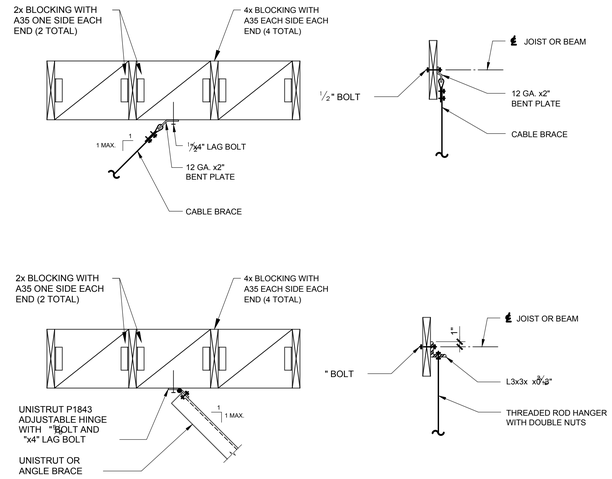
NOTE:

1. INSTALL HANGERS PER TABLE ABOVE (2016 CMC 603.5).
2. STRAP HANGERS ARE PROVIDED AT 8 FOOT SPACING.
3. INSTALL SEISMIC BRACING AS APPLICABLE PER MASON WEST OPM-0043-13.
4. SEE MEP COMPONENT ANCHORAGE NOTES ON SHEET, M001.

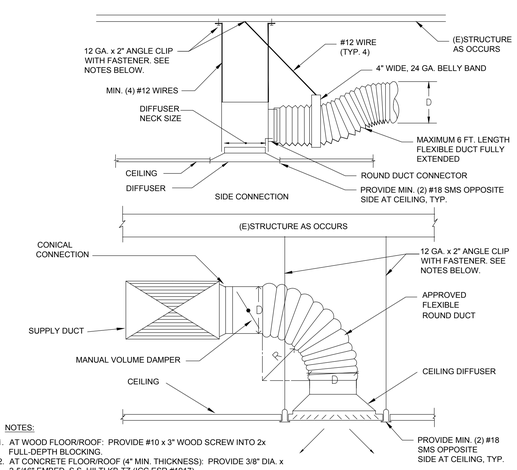
DUCT SUPPORT TO STRUCTURE DETAIL — SCALE NONE — 8



CONNECTION TO CONCRETE STRUCTURE — SCALE NONE — 5



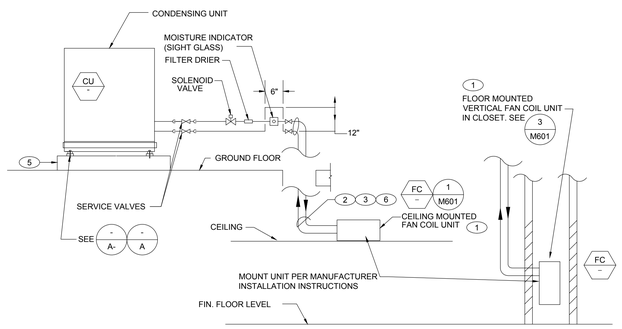
CONNECTION TO WOOD STRUCTURE — SCALE NONE — 2



NOTES:

1. AT WOOD FLOOR/ROOF: PROVIDE #10 x 3" WOOD SCREW INTO 2x FULL-DEPTH BLOCKING.
2. AT CONCRETE FLOOR/ROOF (4" MIN. THICKNESS): PROVIDE 3/8" DIA. x 2-5/16" EMBED. S.S. HILTI KB-TZ (ICC ESR #1917).
3. AT CONCRETE FLOOR/ROOF (LESS THAN 4" THICK): PROVIDE 3/8" DIA. THROUGH BOLTS WITH WASHERS.
4. WHERE HEADROOM PERMITTED (R=D) CONNECTION TO DIFFUSER SHALL BE MADE AS SHOWN.
5. FLEXIBLE DUCTS 6'-0" MAXIMUM IN LENGTH.

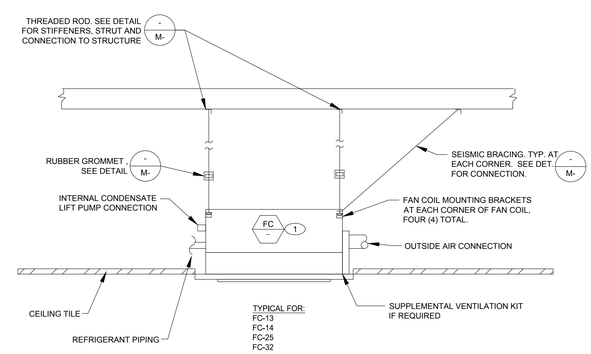
DIFFUSER CONNECTION DETAIL — SCALE NONE — 7



NOTES:

1. FAN COIL UNITS SHALL BE LOCATED SUCH THAT UNIT CAN BE SERVICED AND REMOVED WITHOUT REMOVAL OF PERMANENT CONSTRUCTION. LOCATION SHALL ALSO CONFIRM TO MANUFACTURER'S RECOMMENDATION.
2. INSULATE BOTH REFRIGERANT PIPES SUCTION LINES & LIQUID ON HEAT PUMP UNITS NO PIPE INSULATION IS REQUIRED FOR LIQUID LINE ON COOLING UNITS ONLY, IF APPLICABLE.
3. INSTALL PIPES IN STUD WALL WITH TRISOLATOR PIPE SUPPORT.
4. NOT USED
5. EQUIPMENT PAD. REFER TO ARCHITECTURAL DETAILS 5 AND 6/A811 FOR EQUIPMENT PAD ON GRADE AND DETAILS 17 AND 18/A861 FOR EQUIPMENT PAD ON ROOF.
6. INSTALL AND SIZE REFRIGERANT PIPING PER MF'R RECOMMENDATIONS. APPLY LONG LINE APPLICATION DATA IF VERTICAL LINES ARE ABOVE 50 FT.

SPLIT SYSTEM MOUNTING AND PIPING DETAILS — SCALE NONE — 4



NOTES:

1. MAXIMUM OPERATING WEIGHT OF FAN COIL UNIT IS 125 LBS.

FAN COIL MOUNTING DETAIL — SCALE NONE — 1

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

Date: .....
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT — RICHARD M. INGENHUTT — NO. C-28229 — REN. 2-29-21 — STATE OF CALIFORNIA

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Project No. 19009

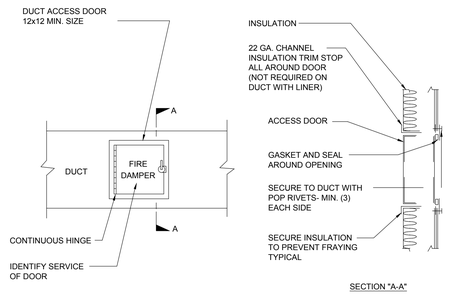
Sheet Title

Mechanical Details

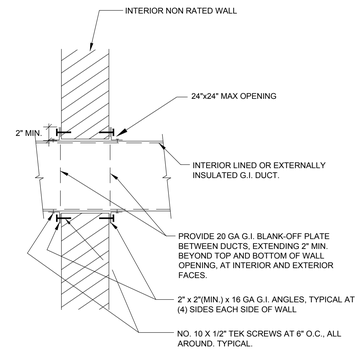
Sheet Number

M601

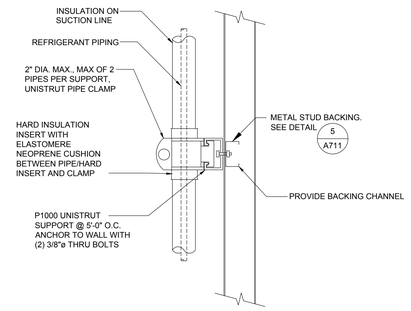
Plot Date: 11/15/2019 2:10:38 PM Last Save By: mzaw Login: Mzn Zaw H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_M601.dwg



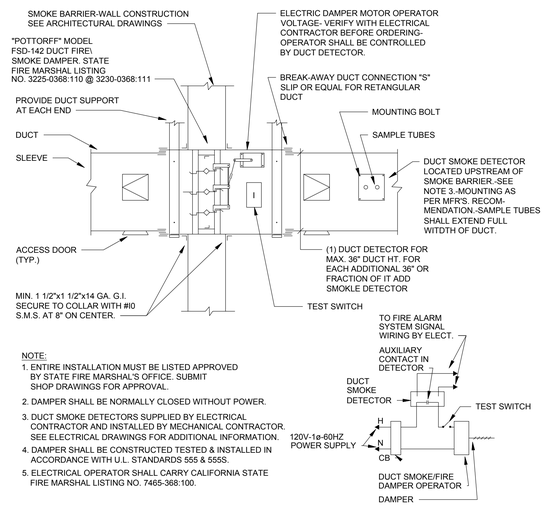
ACCESS DOOR DETAIL | SCALE NONE | 9



DUCT THRU NON-RATED WALL | SCALE NONE | 6



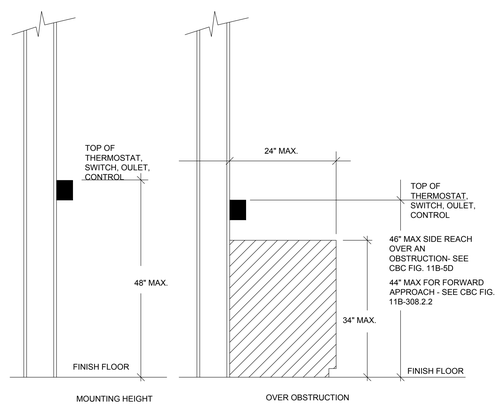
REFRIGERANT PIPE SUPPORT ON WALL | SCALE NONE | 3



NOTE:

1. ENTIRE INSTALLATION MUST BE LISTED APPROVED BY STATE FIRE MARSHAL'S OFFICE. SUBMIT SHOP DRAWINGS FOR APPROVAL.
2. DAMPER SHALL BE NORMALLY CLOSED WITHOUT POWER.
3. DUCT SMOKE DETECTORS SUPPLIED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS FOR ADDITONAL INFORMATION.
4. DAMPER SHALL BE CONSTRUCTED TESTED & INSTALLED IN ACCORDANCE WITH U.L. STANDARDS 555 & 555S.
5. ELECTRICAL OPERATOR SHALL CARRY CALIFORNIA STATE FIRE MARSHAL LISTING NO. 7465-368:100.

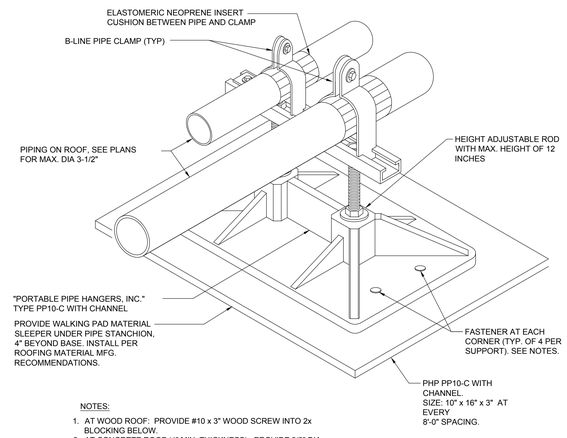
COMBINATION SMOKE FIRE DAMPER DETAIL | SCALE NONE | 8



NOTES:

WOOD BASES WITH PIPE CLAMPS AND/OR PLUMBERS TAPE IS NOT ALLOWED.

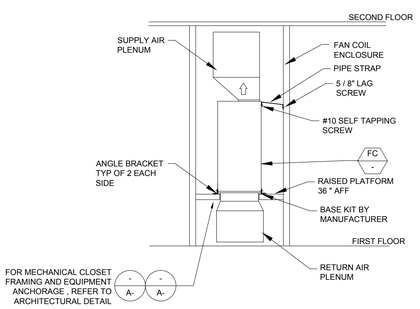
THERMOSTAT MOUNTING DETAIL | SCALE NONE | 5



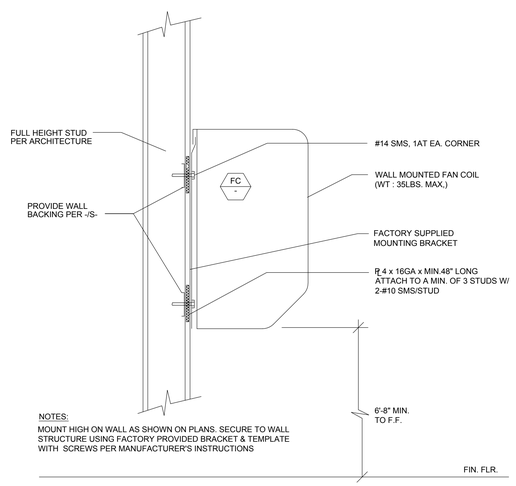
NOTES:

1. AT WOOD ROOF: PROVIDE #10 x 3" WOOD SCREW INTO 2x BLOCKING BELOW.
2. AT CONCRETE ROOF (4" MIN. THICKNESS): PROVIDE 3/8" DIA. x 2-5/16" EMBED. S.S. HILTI KB-TZ (ICC ESR #1917).
3. AT CONCRETE ROOF (LESS THAN 4" THICK): PROVIDE 3/8" DIA. THROUGH BOLTS WITH WASHERS.

REFRIGERANT PIPE ON ROOF SUPPORT | SCALE NONE | 2



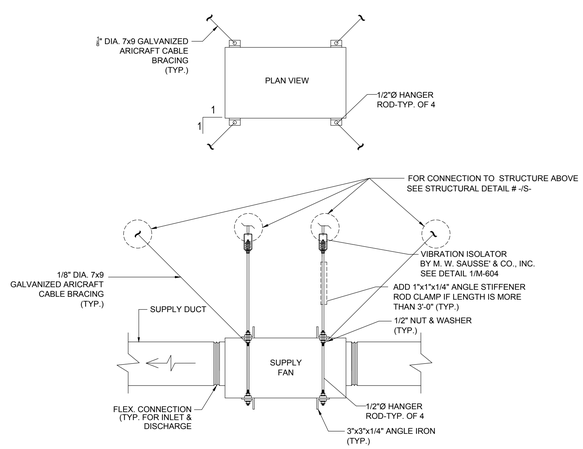
SPLIT SYSTEM INDOOR UNIT MOUNTING DETAIL | SCALE NONE | 7



NOTES:

MOUNT HIGH ON WALL AS SHOWN ON PLANS. SECURE TO WALL STRUCTURE USING FACTORY PROVIDED BRACKET & TEMPLATE WITH SCREWS PER MANUFACTURER'S INSTRUCTIONS

DETAIL | SCALE NONE | 4



SUPPLY FAN (SF) MOUNTING DETAIL | SCALE NONE | 1

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

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NO. C-26229
REN. 3-28-21
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Project No. 19009

Sheet Title

Mechanical Details

Sheet Number

M602

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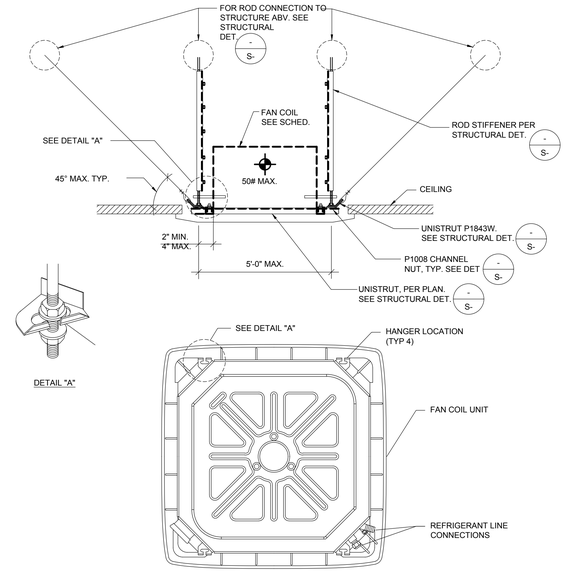
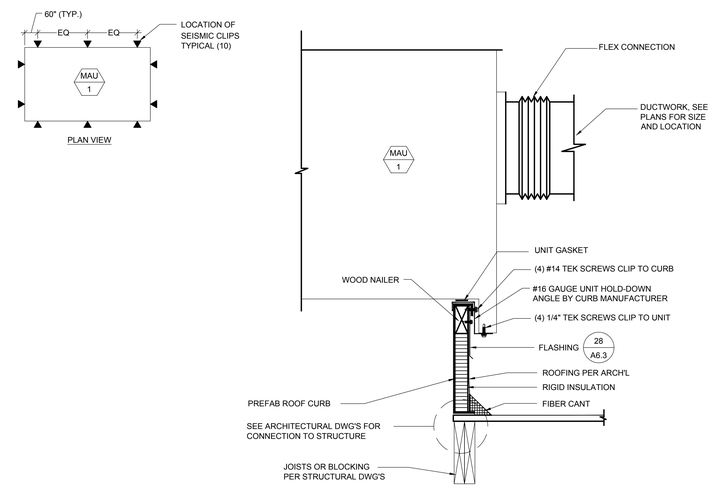
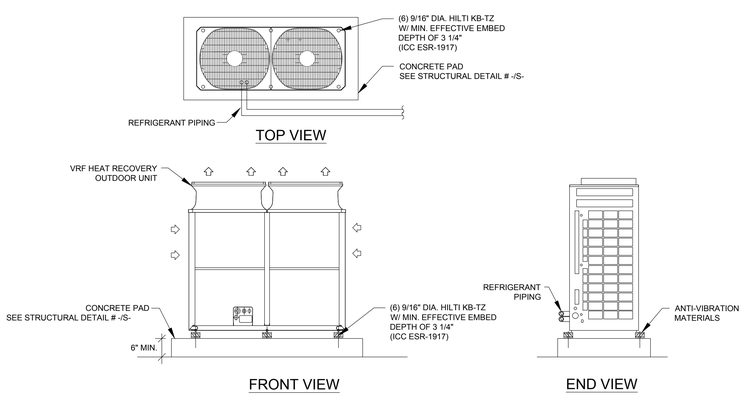


DETAIL	SCALE NONE	3

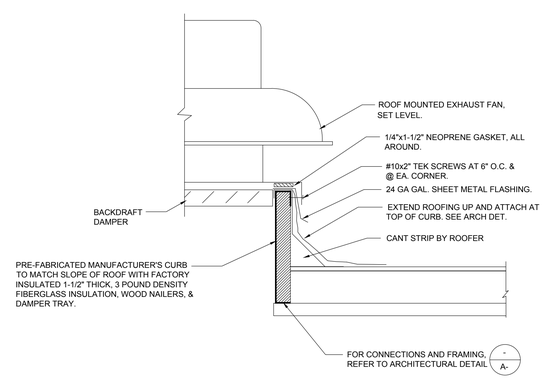


NOTES:
1. FILL ENTIRE VOID SPACE IN ROOF CURB WITH BATT INSULATION.
2. SEE EQUIPMENT SCHEDULE ON M0.2 FOR EQUIPMENT WEIGHTS.

MAKE-UP AIR UNIT ON ROOF SUPPORT DETAIL	SCALE NONE	2



(VRF) SYSTEM HEAT PUMP OUTDOOR CONDENSING UNIT MOUNTING DETAIL	SCALE NONE	4



NOTES:
1. TYPICAL FOR GRAVITY RELIEF/INTAKE & COMBUSTION AIR VENTILATORS.
2. SEE ARCHITECTURAL DETAILS FOR ADDITIONAL ROOF REQUIREMENTS.

ROOF MOUNTED EXHAUST FAN SUPPORT DETAIL	SCALE NONE	1

DETAIL	SCALE NONE	9

DETAIL	SCALE NONE	6

DETAIL	SCALE NONE	8

DETAIL	SCALE NONE	5

DETAIL	SCALE NONE	7

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Architect / Engineer Stamp

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NO. C-26229
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Project No. 19009

Sheet Title

Mechanical Details

Sheet Number

M603

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DETAIL	SCALE NONE	8

DETAIL	SCALE NONE	5

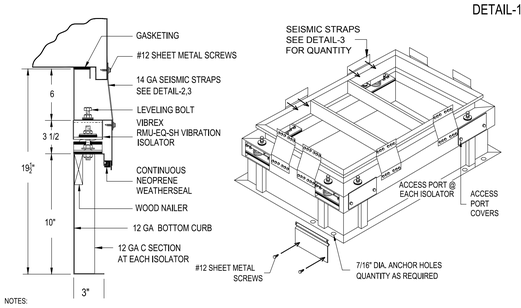
DETAIL	SCALE NONE	3

DETAIL	SCALE NONE	7

DETAIL	SCALE NONE	4

DETAIL	SCALE NONE	2

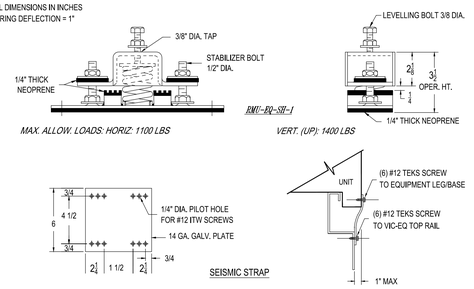
DETAIL-1



NOTES:
1. FOR ANCHOR REQUIREMENTS AND DETAILS OF ISOLATORS AND SEISMIC STRAPS, SEE DETAIL 2, 3.
2. SUBMITTED ROOF CURBS ARE LEVEL. PITCHED ROOF CURBS ARE AVAILABLE UPON REQUEST TO MATCH ROOF SLOPE.
3. NOT FOR CONSTRUCTION, ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT

DETAIL-2

NOTES:
1) ALL DIMENSIONS IN INCHES
2) SPRING DEFLECTION = 1"

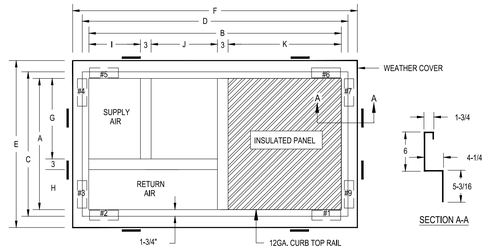


M. W. SAUSSE & CO., INC.

DETAIL-3

NOTES:
1) INDICATES SEISMIC TIE-DOWN PLATE. (2) REQUIRED PER SIDE, SEE DETAIL 2.
2) #1 THRU #8 INDICATE ISOLATOR LOCATIONS. SEE DETAIL 2.

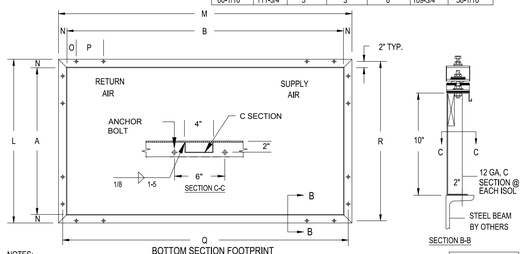
MARK	MAKE	TYPE	SIZE	CURB WT.
RTU-2-1,2-3,2-5,2-6	CARRIER	48LC	08	475#



TOP SECTION PLAN VIEW

A	B	C	D	E	F	G	H	I	J	K
54-1/16	105-3/4	57-9/16	109-1/4	62-9/16	114-1/4	35-7/16	15-15/16	29-7/16	20-15/16	52-7/8

L	M	N	O	P	Q	R
60-1/16	111-3/4	3	3	8	109-3/4	58-1/16

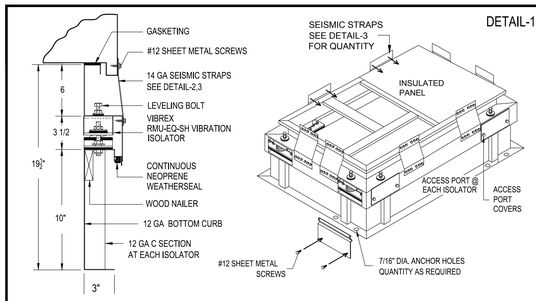


BOTTOM SECTION FOOTPRINT

NOTES:
1. FOR ANCHORAGE, USE 3/8" DIA. A-307 MACHINE BOLTS
2. R & Q DIMENSIONS ARE CENTERLINES OF ANCHOR HOLES IN CURB BOTTOM FLANGE.

ROOF TOP GAS ELECTRIC PACKAGED UNIT MOUNTING DETAIL FOR CARRIER 48LCD008	SCALE NONE	6

DETAIL-1



NOTES:
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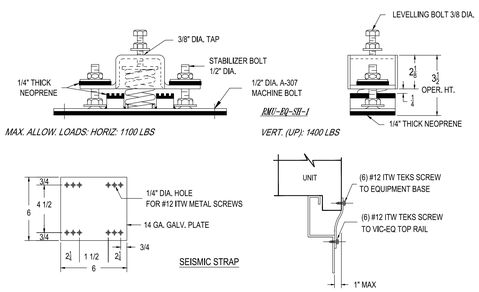
3. NOT FOR CONSTRUCTION, ALL DIMENSIONS REQUIRE FINAL REVIEW AT COMMENCEMENT OF PROJECT

DETAIL-2

NOTES: 1) ALL DIMENSIONS IN INCHES
2) SPRING DEFLECTION = 1"

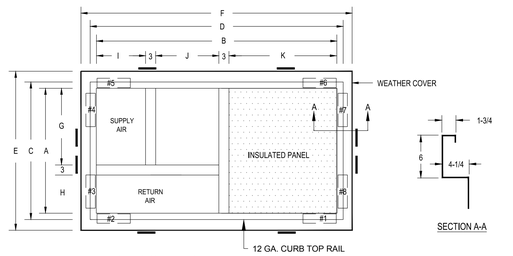


M. W. SAUSSE & CO., INC.

DETAIL-3

NOTES:
1) INDICATES SEISMIC TIE-DOWN PLATE. (2) REQUIRED PER SIDE, SEE DETAIL 2.
2) #1 THRU #8 INDICATE ISOLATOR LOCATIONS. SEE DETAIL 2.

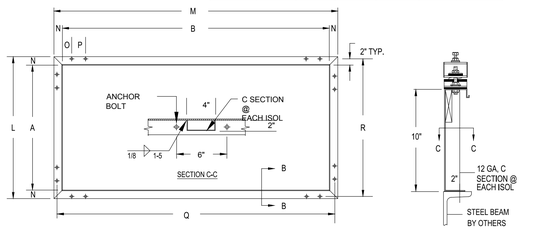
MARK	MAKE	TYPE	SIZE	CURB WT.
RTU-1-1,2-2,2-4,2-7,2-8	CARRIER	48GC	05,06	310#



TOP SECTION PLAN VIEW

A	B	C	D	E	F	G	H	I	J	K
36-15/16	67-1/8	40-7/16	70-5/8	45-7/16	75-5/8	20-1/4	13-11/16	13-7/8	15-3/16	32-1/16

L	M	N	O	P	Q	R
42-15/16	73-1/8	3	3	8	71-1/8	40-15/16



BOTTOM SECTION FOOTPRINT

NOTES:
1. FOR ANCHORAGE, USE 3/8" DIA. A-307 MACHINE BOLTS
2. Q & R DIMENSIONS ARE CENTERLINES OF ANCHOR HOLES IN CURB BOTTOM FLANGE.

ROOF TOP GAS ELECTRIC PACKAGED UNIT MOUNTING DETAIL FOR CARRIER 48GCLM05 & 06	SCALE NONE	1

DSA Stamp

Architect

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REN. 2-28-21
STATE OF CALIFORNIA

Consultants

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Project No. 19009

Sheet Title

Mechanical Details

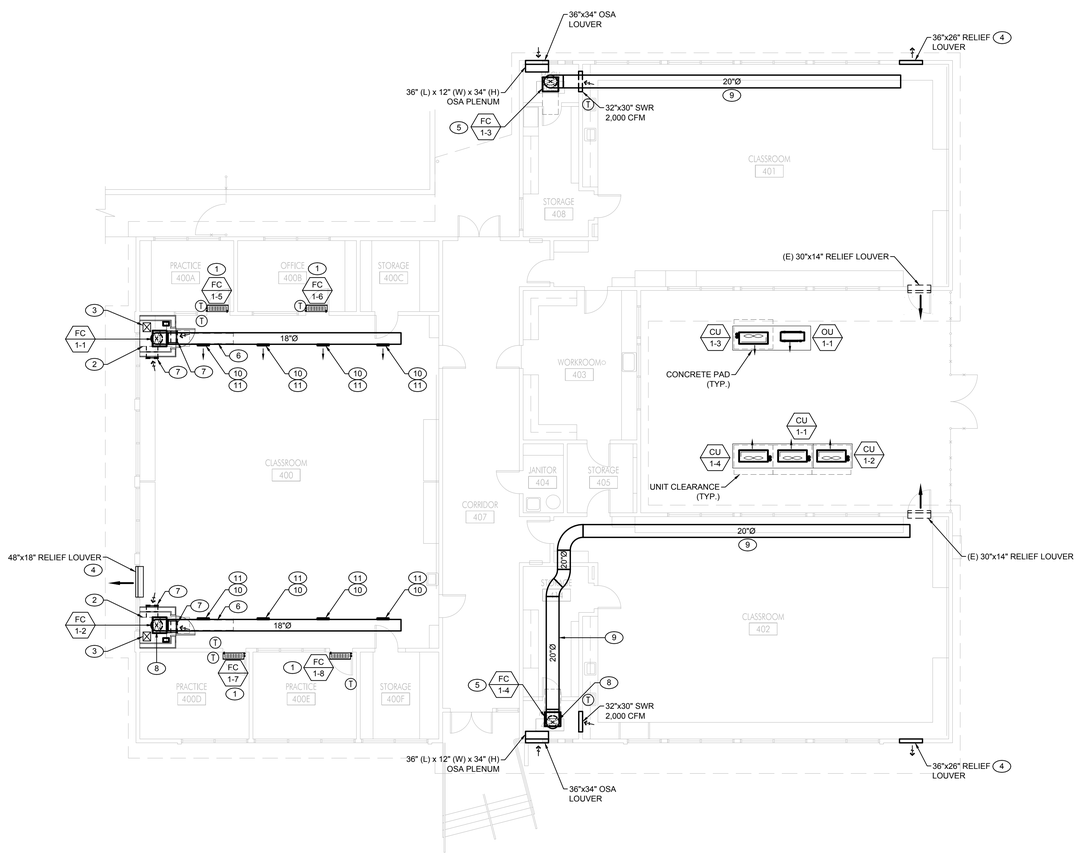
Sheet Number

M604

Plot Date: 11/15/2019 2:10:50 PM Last Save By: mzow Login: Min Zow H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_M604.dwg

KEYNOTES

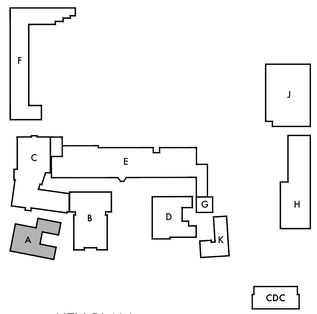
1. WALL MOUNTED FAN COIL UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE LOCATION W/ ALL OTHER TRADES. ENSURE PROPER ACCESS SPACE FOR MAINTENANCE. FOR MOUNTING DETAIL SEE -/M- RUN REFRIGERANT LINES TO CORRESPONDING CONDENSER UNIT PER MANUFACTURER RECOMMENDATION.
2. 3'-4"x3'-6" RETURN AIR PLENUM BELOW FAN COIL UNIT.
3. 12"x10" OSA DUCT W/ 1" LINING UP, DUCT OFFSET & UP THRU ROOF. PROVIDE ROOF JACK WITH WIRE MESH SCREEN.
4. PROVIDE BAROMETRIC RELIEF AIR DAMPER. SET DAMPER TO OPEN AT 0.05" PRESSURE.
5. PROVIDE MIXING BOX AT BOTTOM OF THE UNIT.
6. PROVIDE 1" DUCT LINER FOR FIRST 10'-0".
7. 18x14 SWR AND CONNECT TO RETURN AIR PLENUM BELOW FAN COIL UNIT, PRICE 500, 575 CFM.
8. 20"Ø SA DUCT DN & CONNECT TO FAN COIL UNIT
9. REUSE EXISITING DUCTWORK IN LIEU OF NEW DUCTWORK IF EXISTING DUCTWORK IN ORDER TO ACCOMMODATE WITH NEW UNIT. SEE DEMOLITION PLAN MAD201.
10. 18"x6" SAG 400 CFM (TYP 4.)
11. PRICE SDG MODEL WITH AIR SCOOP (AS), DOUBLE DEFLECTION. (TYP.)



1 MECHANICAL PLAN

NORTH

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



KEY PLAN

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

Date: .....
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Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. INGERSOLL
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Project No. 19009

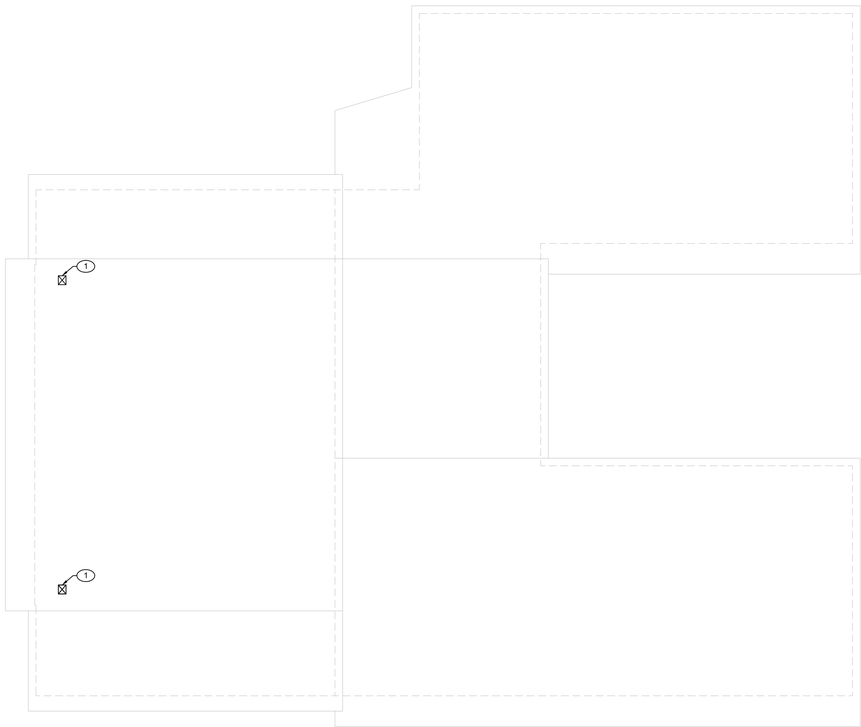
Sheet Title

Building 'A'
Mechanical Plan

Sheet Number

MA201

Plot Date: 11/15/2019 2:10:57 PM Last Save By: sachnabiantafi Login: Min Zaw H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MA201.dwg



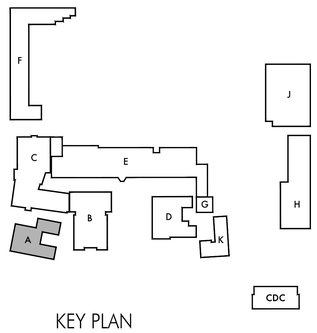
1 MECHANICAL ROOF PLAN

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

NORTH

KEYNOTES

1. 12"x10" OSA DUCT W/ 1" LINING DN THRU ROOF. OFFSET DUCT & CONNECT TO RETURN AIR PLENUM. PROVIDE ROOF JACK WITH WIRE MESH SCREEN.



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Santa Monica, California 90403

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LICENSED ARCHITECT
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Project No. 19009

Sheet Title

Building 'A'
Mechanical
Roof Plan

Sheet Number

MA202

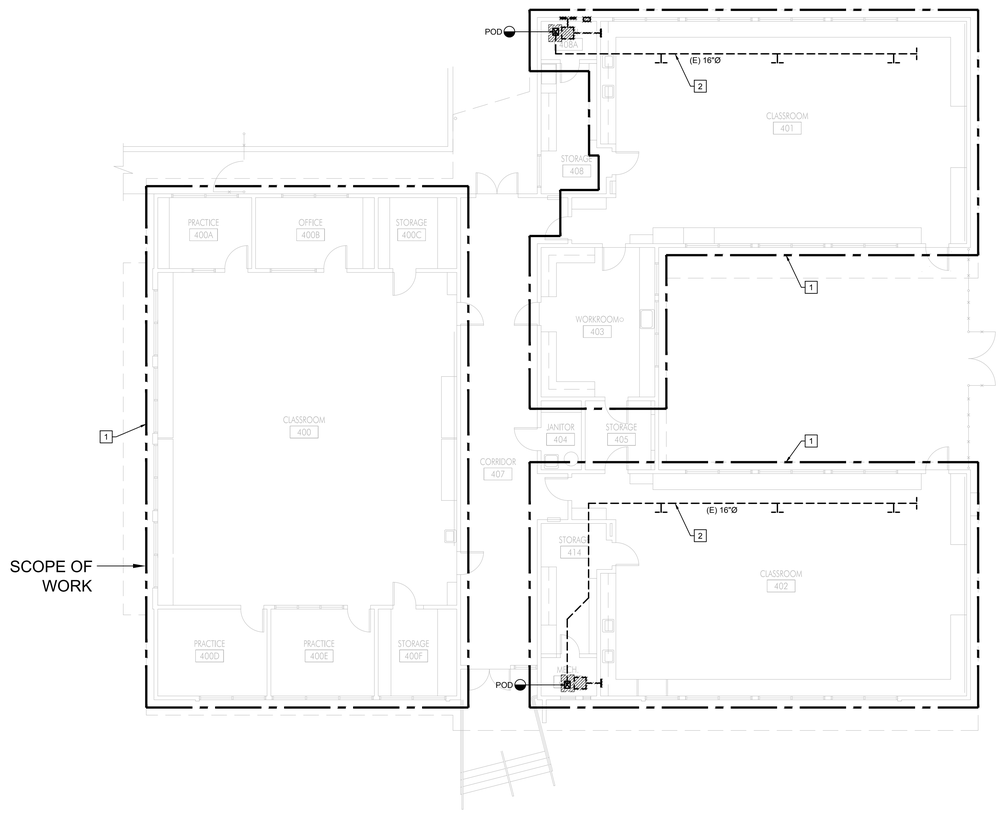
Plot Date: 11/15/2019 2:11:07 PM Last Save By: mzaw Login: Min Zaw H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MA202.dwg

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BID AND CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND BE THOROUGHLY FAMILIAR WITH THE DEMOLITION SCOPE OF WORK. HE SHALL FURNISH ALL LABORS, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO CARRY OUT THIS WORK AND SUBMIT ALL QUESTIONS IN WRITING PRIOR TO BID.
2. ANY EXISTING TO REMAIN EQUIPMENT AND DUCTWORK OUTSIDE OF DASHED LINES SCOPE OF WORK, SHALL BE REPAIRED, CLEANED AND PAINTED BY CONTRACTOR PER DISTRICT'S STANDARDS.
3. CONTRACTOR SHALL REPAIR, PATCH AND SEAL ALL UNUSED OR DAMAGED WALL AND ROOF OPENINGS/ PENETRATIONS TO BUILDING CAUSED BY DEMOLITION OF EQUIPMENT, PIPING, DUCTWORK, SUPPORTS, ETC.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING REGISTERS, DUCTWORK AND RELATED APPURTENANCES SHOWN WITHIN DASHED LINES SCOPE OF WORK. THEY MUST NOT BE ABANDONED IN PLACE UNLESS NOTED OTHERWISE
5. ALL DAMAGED, BROKEN OR INOPERABLE AIR DEVICES OR DAMPERS SHALL BE REPLACED BY CONTRACTOR WITH NEW LIKE SIZED COMPONENTS OR AIR DEVICES. CONTRACTOR SHALL CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. SUBMIT ALL QUESTIONS IN WRITING PRIOR TO BID.
6. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND DEVICES SUCH THAT COMPONENTS WILL BE ACCESSIBLE FOR MAINTENANCE.
7. FIRE PROTECTION DURING DEMOLITION / CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2016 CBC, CHAPTER 33.

DEMOLITION KEYNOTES

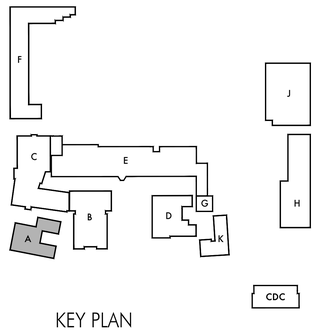
1. REMOVE (E) HEATING SYSTEM, DUCTWORK,SUPPORTS, FLUE, PAD, THERMOSTAT, CONTROL AND ACCESSORIES WITHIN THE SCOPE OF WORK AREA UNLESS OTHERWISE NOTED. ALL ASSOCIATED APPURTENANCES AND DISPOSED OF PER OWNER'S DIRECTION. CONTRACTOR SHALL REPAIR, PATCH AND PAINT ALL ROOF, WALL, CEILING, FLOOR INCLUDING ANY ASSOCIATED OPENINGS OR PENETRATIONS TO MATCH ADJACENT SURFACES PER ARCHITECTURAL DRAWINGS.
2. REMAIN EXISITING DUCTWORK IF EXISTING DUCTWORK IN ORDER TO ACCOMMODATE WITH NEW UNIT.



1 MECHANICAL DEMOLITION PLAN

NORTH

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



KEY PLAN

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Project No. 19009

Sheet Title

Building 'A'
Mechanical
Demolition Plan

Sheet Number

MAD201

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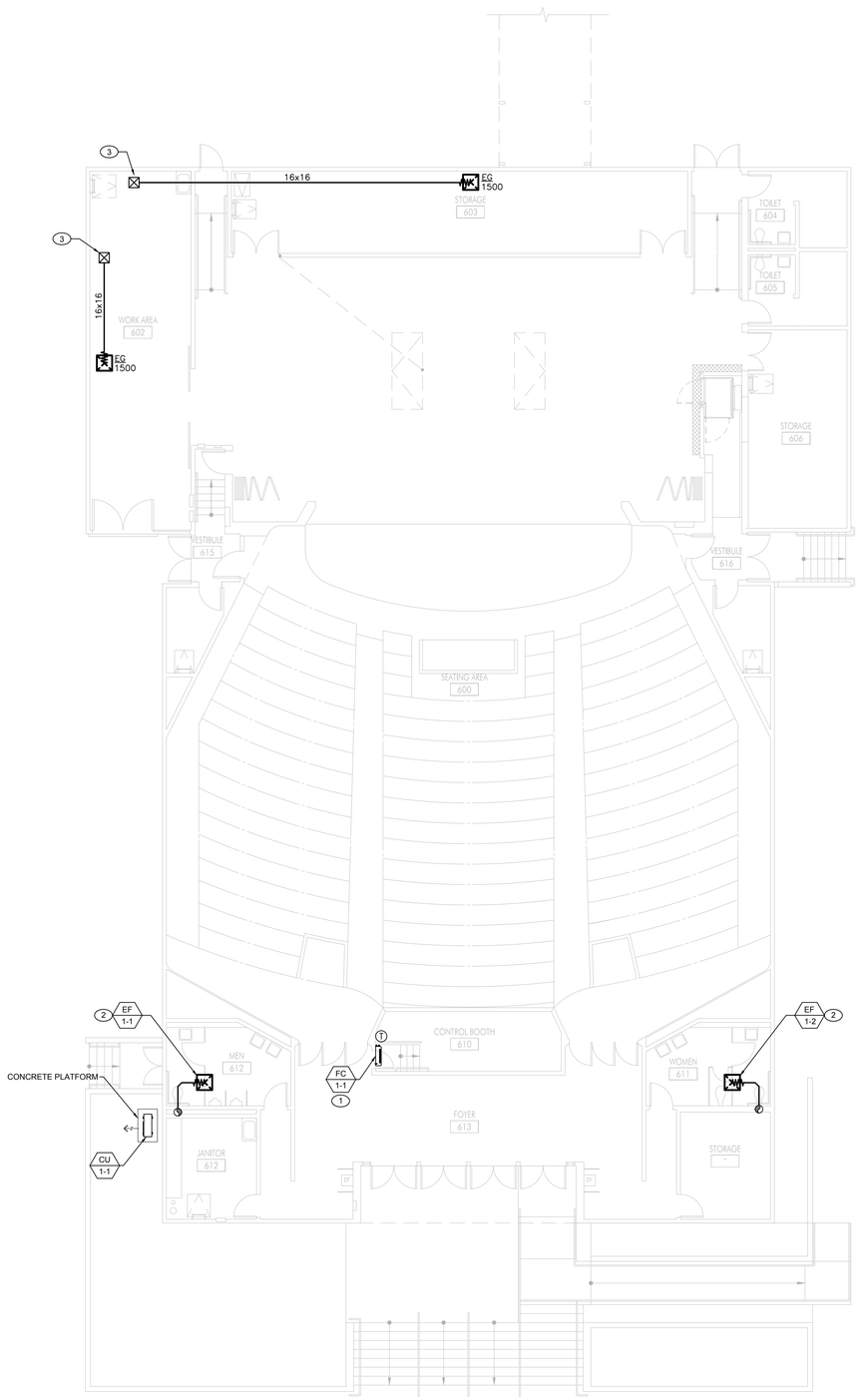


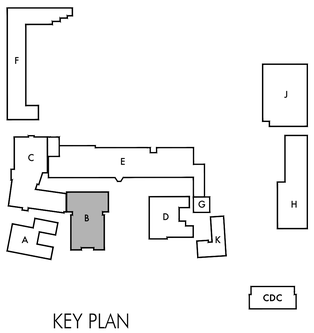
1 MECHANICAL PLAN

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

NORTH

KEYNOTES

1. WALL MOUNTED FAN COIL UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE LOCATION W/ ALL OTHER TRADES. ENSURE PROPER ACCESS SPACE FOR MAINTENANCE. FOR MOUNTING DETAIL SEE -/M-. RUN REFRIGERANT LINES TO CORRESPONDING CONDENSER UNIT PER MANUFACTURER RECOMMENDATION.
2. CEILING EXHAUST FAN WITH 10"Ø DUCT VENT UP THRU ROOF WITH ROOF JACK, 330 CFM).
3. 16x16 RELIEF DUCT VENT UP THRU ROOF TO ROOFTOP RELIEF VENTILATOR, 1500 CFMR.



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Project No. 19009

Sheet Title

Building 'B'
Mechanical Plan

Sheet Number

MB201

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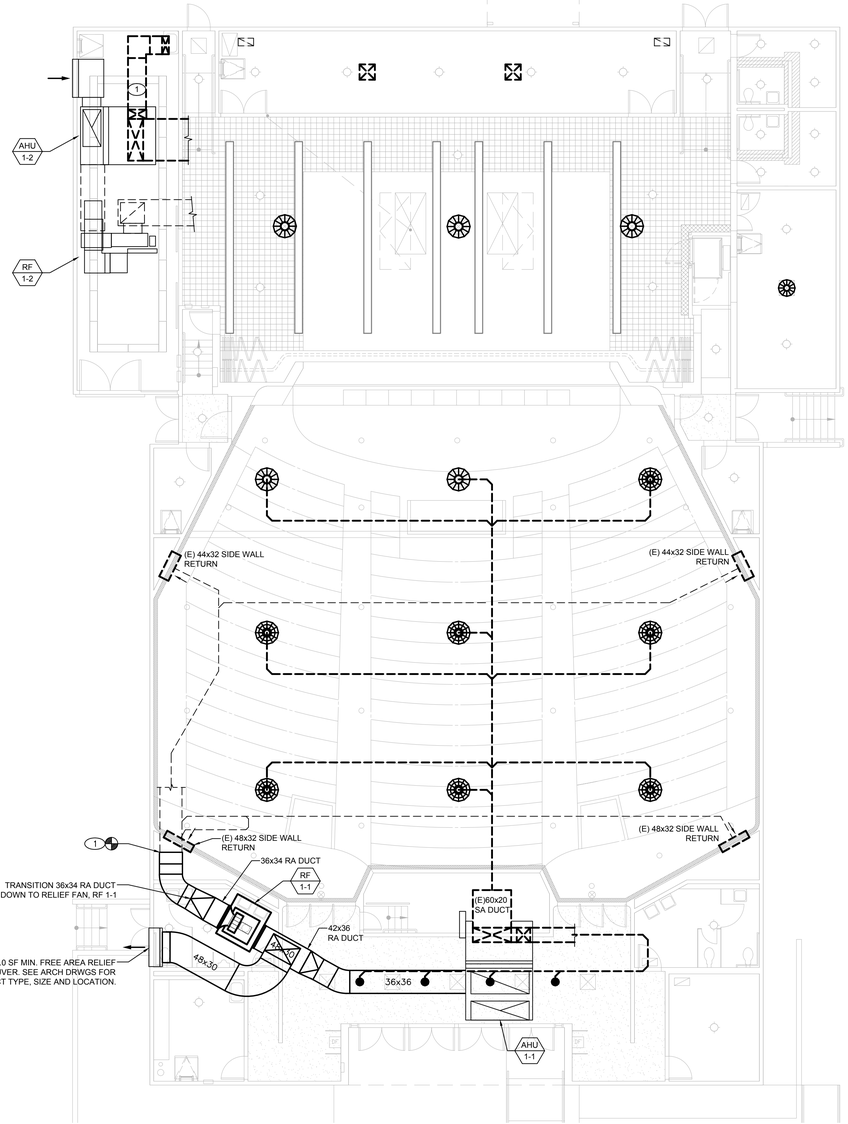
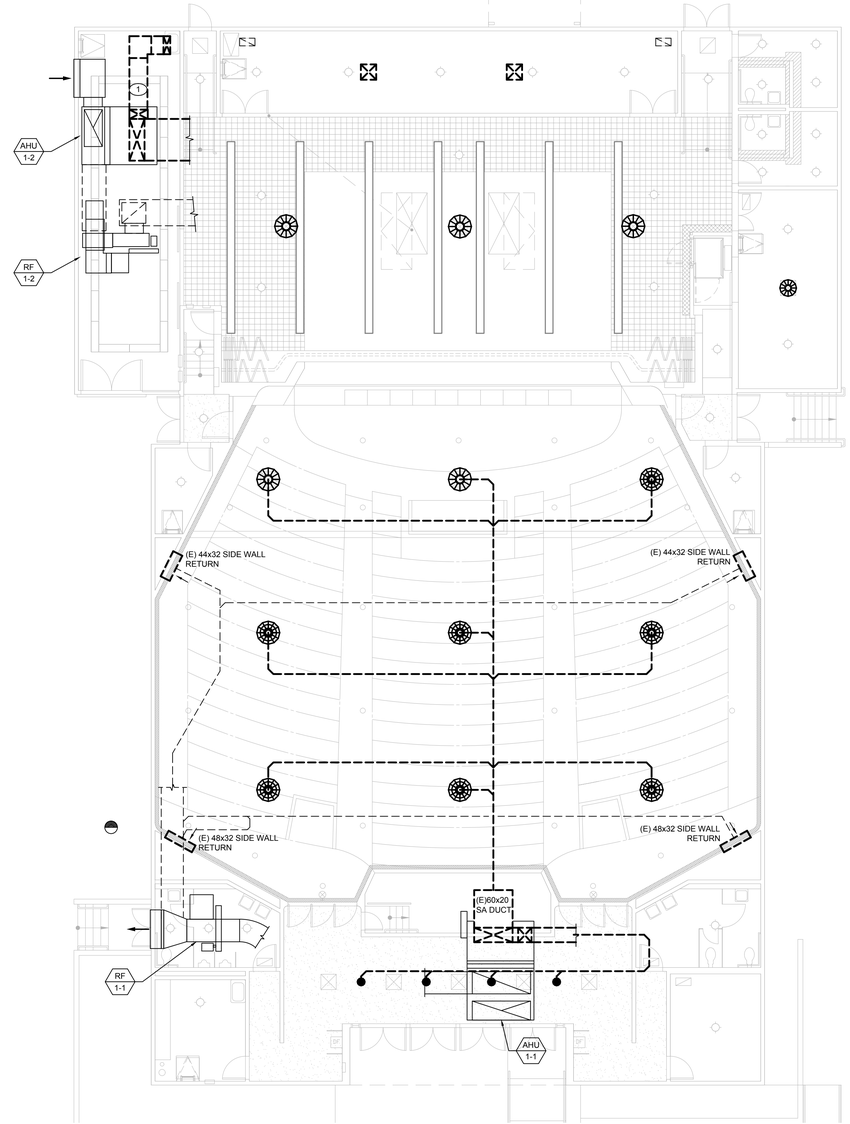


1 MECHANICAL MEZZANINE REMODEL PLAN

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



2 MECHANICAL MEZZANINE DEMOLITION PLAN

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

REMODEL GENERAL NOTES

1. ALL MECHANICAL WORK NEED TO BE COORDINATED WITH ARCHITECTURAL PLANS. SEE ARCH PLANS FOR ADDITIONAL SCOPE OF WORK THAT MAY NOT BE ADDRESSED OR SHOWN ON MECHANICAL PLANS.
2. SEE ARCHITECTURAL DRAWINGS INCLUDING REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS FOR FURTHER DIMENSIONS AND LOCATIONS OF ALL THERMOSTATS, DIFFUSERS, GRILLES, REGISTERS, ETC.
3. FOR CLASSROOMS, AUDITORIUM AND ROOMS WITH NEW HVAC REPLACEMENT, CONTRACTOR TO COORDINATE WITH SCHOOL DISTRICT REPRESENTATIVE FOR THERMOSTAT TYPE AND CONNECTIVITY TO ALLOW FOR SCHEDULING AND UNIT CONTROL.
4. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE BETWEEN ANY EXHAUST OUTLET AND OUTSIDE AIR INTAKE INTO THE BUILDING.
5. FOR INDIVIDUAL EQUIPMENT DETAIL REFERENCE, SEE EQUIPMENT SCHEDULES ON SHEET M002 THRU M007.
6. ALL EXPOSED DUCTWORK IN GYMNASIUM NEEDS TO BE FINISH APPEARANCE. SEE ARCHITECTURAL DRAWINGS FOR EXACT COLOR AND FINISHES.

REMODEL KEYNOTES

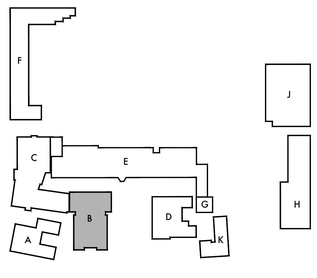
1. WALL MOUNTED FAN COIL UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE LOCATION W/ ALL OTHER TRADES. ENSURE PROPER ACCESS SPACE FOR MAINTENANCE. FOR MOUNTING DETAIL SEE -M-. RUN REFRIGERANT LINES TO CORRESPONDING CONDENSER UNIT PER MANUFACTURER RECOMMENDATION.
2. 22x22(L) SA DUCT UP THRU ROOF TO RTU (4,000 CFMS). COORDINATE DUCT ROUTING BETWEEN EXISTING FRAMING.
3. 22x22(L) RA DUCT UP THRU ROOF TO RTU (4,000 CFMR). COORDINATE DUCT ROUTING BETWEEN EXISTING FRAMING.
4. 24x24 SIDEWALL SA GRILLE (SWS). REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, COLOR AND FINISH.
5. 42(L)x24(H) SIDEWALL RA GRILLE (SWR). REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, COLOR AND FINISH.
6. 24x12 SIDEWALL SA GRILLE (SWS). REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, COLOR AND FINISH.
7. 28x28 SA DUCT UP THRU ROOF TO EC 1-1, 7500 CFMS. COORDINATE DUCT ROUTING BETWEEN EXISTING ROOF FRAMING.
8. 24"Ø KITCHEN EXHAUST DUCT WITH 3M 2-HOUR RATED FIRE WRAP UP THRU ROOF TO EF 1-1. PROVIDE NEW ROOF OPENING AS REQUIRED. PATCH, SEAL AND PAINT ANY UNUSED ROOF OPENING TO MATCH ADJACENT ROOF.
9. EXISTING KITCHEN HOOD TO REMAIN AND REFURBISHED TO LIKE NEW CONDITION.
10. ROUND EXPOSED DIFFUSER (RS) WITH 14"Ø NECK SIZE AND VOL. DAMPER. SET AND BALANCE EACH RS TO 938 CFMS.

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BID AND CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND BE THOROUGHLY FAMILIAR WITH THE DEMOLITION SCOPE OF WORK. HE SHALL FURNISH ALL LABORS, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO CARRY OUT THIS WORK AND SUBMIT ALL QUESTIONS IN WRITING PRIOR TO BID.
2. ANY EXISTING TO REMAIN EQUIPMENT AND DUCTWORK OUTSIDE OF DASHED LINES SCOPE OF WORK, SHALL BE REPAIRED, CLEANED AND PAINTED BY CONTRACTOR PER DISTRICT'S STANDARDS.
3. CONTRACTOR SHALL REPAIR, PATCH AND SEAL ALL UNUSED OR DAMAGED WALL AND ROOF OPENINGS/ PENETRATIONS TO BUILDING CAUSED BY DEMOLITION OF EQUIPMENT, PIPING, DUCTWORK, SUPPORTS, ETC.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING REGISTERS, DUCTWORK AND RELATED APPURTENANCES SHOWN WITHIN DASHED LINES SCOPE OF WORK. THEY MUST NOT BE ABANDONED IN PLACE UNLESS NOTED OTHERWISE
5. ALL DAMAGED, BROKEN OR INOPERABLE AIR DEVICES OR DAMPERS SHALL BE REPLACED BY CONTRACTOR WITH NEW LIKE SIZED COMPONENTS OR AIR DEVICES. CONTRACTOR SHALL CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. SUBMIT ALL QUESTIONS IN WRITING PRIOR TO BID.
6. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND DEVICES SUCH THAT COMPONENTS WILL BE ACCESSIBLE FOR MAINTENANCE.
7. FIRE PROTECTION DURING DEMOLITION / CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2016 CBC, CHAPTER 33.

DEMOLITION KEYNOTES

1. DEMOLISH AND REMOVE ALL EXISTING HVAC EQUIPMENT AS SHOWN WITHIN DASHED LINES SCOPE OF WORK, INCLUDING BUT NOT LIMITED TO ALL EXISTING HVAC EQUIPMENT, DUCTWORK, AIR DEVICES, PIPING, SUPPORT, CONDUITS AND ALL ASSOCIATED APPURTENANCES AND DISPOSED OF PER OWNER'S DIRECTION. CONTRACTOR SHALL REPAIR, PATCH AND PAINT ALL ROOF, WALL AND FLOOR OPENINGS OR PENETRATIONS TO BUILDING TO MATCH ADJACENT SURFACES PER ARCHITECTURAL DRAWINGS.
2. CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO PROVIDE A CLEAR AND OPERABLE AREA FOR FUTURE REMODEL WORK.
3. EXISTING KITCHEN HOOD SHALL BE REPAIRED, CLEANED AND REFURBISHED TO LIKE NEW CONDITION BY CONTRACTOR PER DISTRICT'S STANDARDS.



KEY PLAN

DSA Stamp

Architect

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Culver City, CA 90232
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Sheet Title

Buildings 'B' Mechanical Mezzanine Plan

Sheet Number

MB202

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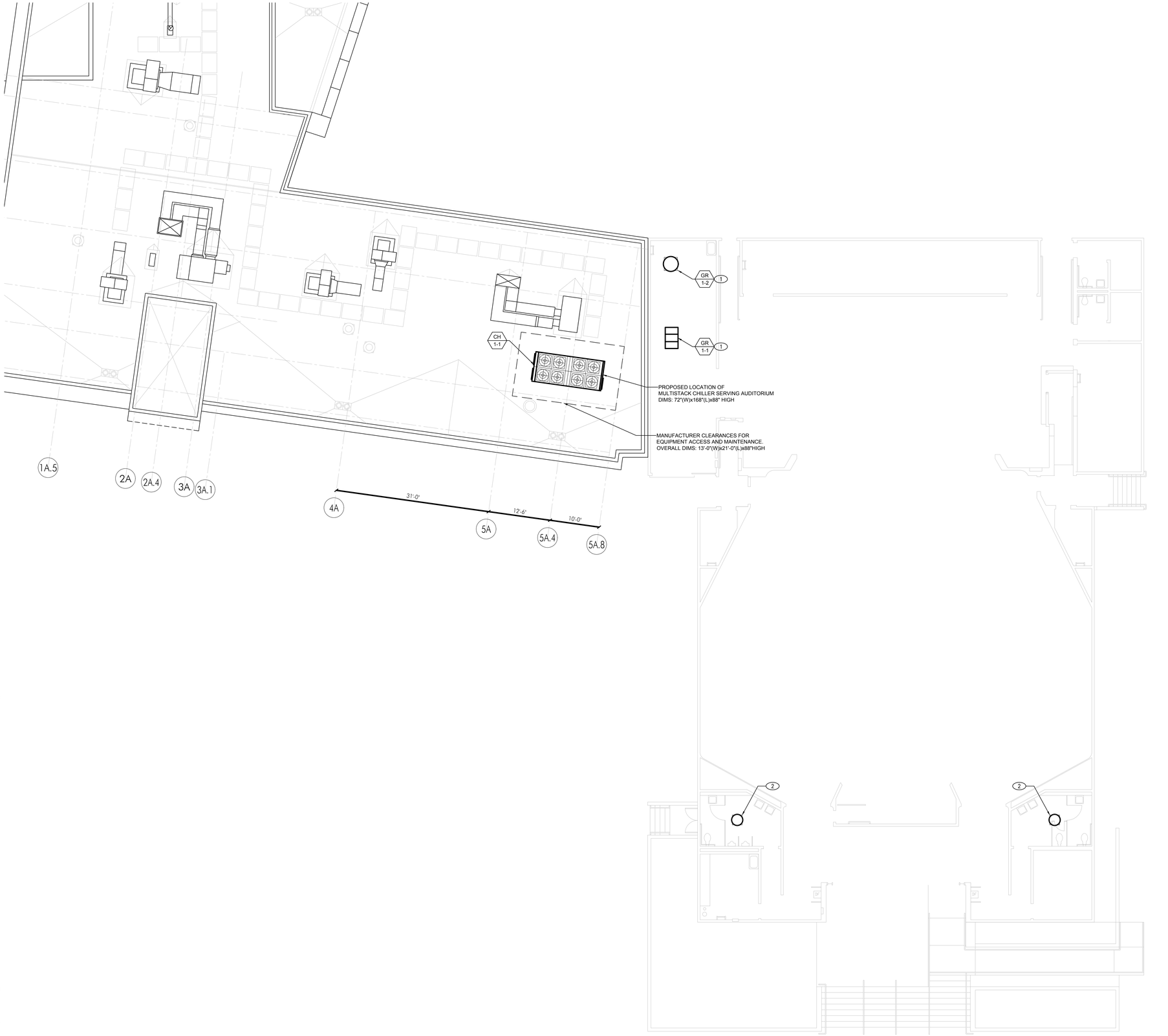
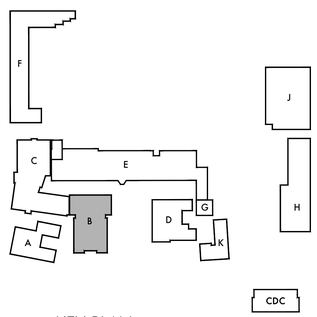


1 MECHANICAL PLAN

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

KEYNOTES

1. GRAVITY RELIEF VENTILATOR TO REPLACE EXISTING UNIT. PROVIDE ALL DUCTWORK TRANSITION, FITTING, ACCESSORY TO CONNECT TO EXISTING VENTILATOR.
2. EXHAUST ROOF JACK SERVING CEILING EXHAUST FAN BELOW. LOCATE EXHAUST JACK MIN. 10'-0" AWAY FROM ANY INTAKE INTO BUILDING.



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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

Date: .....
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. INSPERGO
NO. C-26229
REN. 2-25-21
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Consultants

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Monrovia, California 91016
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Project No. 19009

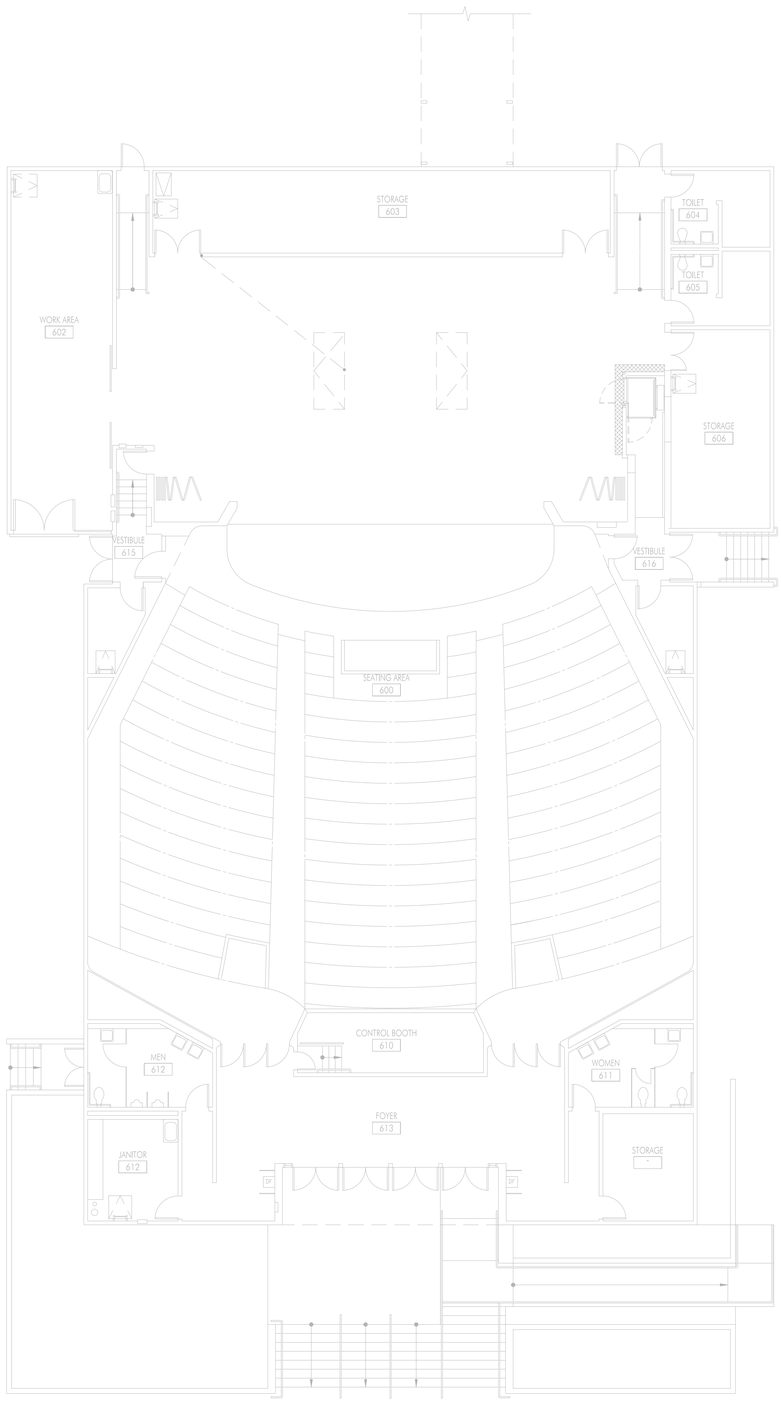
Sheet Title

Buildings 'B' Mechanical Roof Plan

Sheet Number

MB203

Plot Date: 11/15/2019 2:11:33 PM Last Save By: jchan Login: Min Zaw H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MB203.dwg



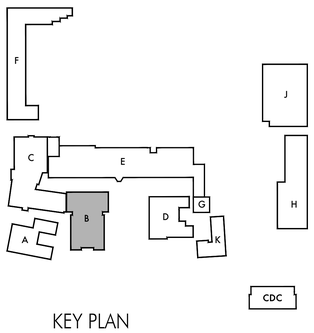
1 MECHANICAL DEMOLITION PLAN

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

NORTH

KEYNOTES

1. REMOVE (E) FURNACE UNITS, SUPPORTS, THERMOSTAT, CONTROL AND ACCESSORIES WITHIN THE SCOPE OF WORK AREA UNLESS OTHERWISE NOTED. PATCH AND REPAIR EXISTING WALLS, CEILING, FLOORING AS NEEDED.
2. REMOVE (E) PORTION OF DUCTWORK TO CONNECT NEW DUCTWORK FROM NEW AHU.



KEY PLAN

DSA Stamp

Architect

RACHLIN PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project

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1501 California Avenue
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LICENSED ARCHITECT
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Project No. 19009

Sheet Title

Building 'B'
Mechanical
Demolition Plan

Sheet Number

MBD201

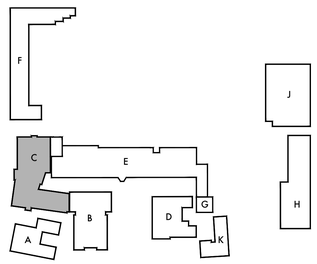
Plot Date: 11/15/2019 2:11:37 PM Last Save By: mzaw Login: Min Zaw H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MBD201.dwg

1 SECOND FLOOR MECHANICAL PLAN

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

KEYNOTES

1. 22"Ø SA DUCT UP THRU ROOF.
2. 20"Ø SA DUCT UP THRU ROOF.
3. 20"x20" RA DUCT UP THRU ROOF.
4. 18"x18" RA DUCT UP THRU ROOF.
5. 18"Ø MAKE-UP AIR DUCT UP THRU ROOF.
6. 18"x16" EA DUCT UP THRU ROOF.
7. 16"x14" EA DUCT OPENING AT TOP OF THE DUCT. PROVIDE ¼" WIRE MESH SCREEN.
8. 18"x24" EA DUCT OPENING AT TOP OF THE DUCT. PROVIDE ¼" WIRE MESH SCREEN.
9. 22"x22" EA DUCT UP THRU ROOF.
10. 22"Ø MAKE-UP AIR DUCT UP THRU ROOF.
11. PROVIDE 1" DUCT LINER THROUGHOUT.
12. 24"Ø MAKE-UP AIR DUCT UP THRU ROOF.
13. 26"x26" EA DUCT UP THRU ROOF.
14. 20"Ø MAKE-UP AIR DUCT UP THRU ROOF.



KEY PLAN

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Architect

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Lincoln Middle School HVAC Replacement Project

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RICHARD M. INSPERGO
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REN. 2-25-21
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Project No. 19009

Sheet Title

Building 'C'
Second Floor
Mechanical Plan

Sheet Number

MC202

Plot Date: 11/15/2019 2:11:44 PM Last Save By: mzow Login: Min Zow H:\2019\19009 - Rachlin - SAMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MC202.dwg

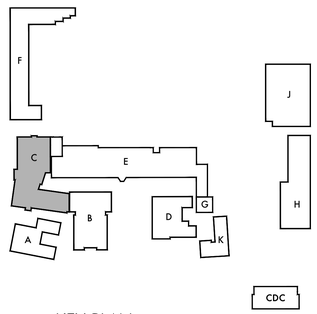
KEYNOTES

1. 22"Ø SA DUCT DN THRU ROOF.
2. 20"Ø SA DUCT DN THRU ROOF.
3. 20"x20" RA DUCT DN THRU ROOF.
4. 18"x18" RA DUCT DN THRU ROOF.
5. 18"Ø MAKE-UP AIR DUCT DN THRU ROOF.
6. 18"x16" EA DUCT DN THRU ROOF.
7. PROVIDE 1" DUCT LINER THROUGHOUT.
8. PROVIDE 2" DUCT LINER THROUGHOUT.
9. 20"Ø MAKE-UP AIR DUCT DN THRU ROOF.
10. 22"Ø MAKE-UP AIR DUCT DN THRU ROOF.
11. 24"Ø MAKE-UP AIR DUCT DN THRU ROOF.
12. 22"x22" EA DUCT DN THRU ROOF.
13. 26"x26" EA DUCT DN THRU ROOF.
14. REPLACE IN KIND; CONTRACTOR TO VERIFY MODEL #, HP, CFM, AND STATIC PRESSURE BEFORE DEMOLITION WORK, AND REBALANCE NEW FAN TO THE PRE-READ CFM QUANTITIES AND STATIC PRESSURES.

1 MECHANICAL ROOF PLAN

NORTH

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



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RICHARD M. INSPERGO
NO. C-26229
REN. 2-25-21
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Project No. 19009

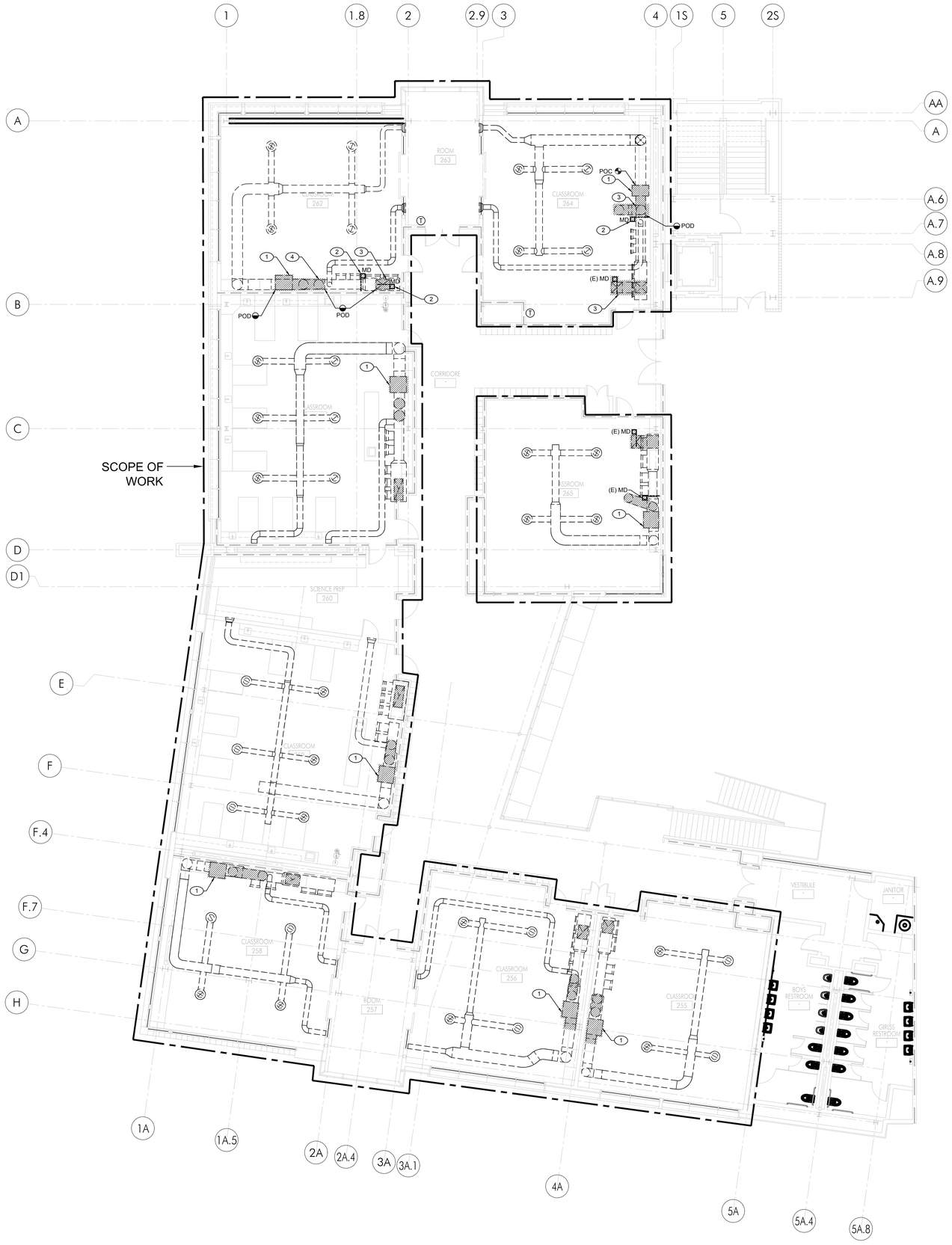
Sheet Title

Building 'C'
Mechanical
Roof Plan

Sheet Number

MC203

Plot Date: 11/15/2019 2:11:51 PM Last Save By: mzaw Login: Min Zaw H:\2019\19009 - Rachlin - SAMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MC203.dwg



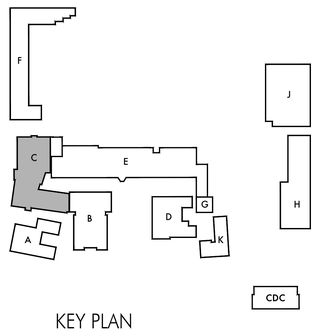
1 SECOND FLOOR MECHANICAL DEMOLITION PLAN

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

NORTH

KEYNOTES

1. REMOVE (E) GAS FURNACE UNITS, GAS PIPES, SUPPORTS, ENTIRE ASSOCIATED COMBUSTION AIR AND FLUE PIPES UP THRU ROOF WITHIN THE SCOPE OF WORK AREA. PATCH AND REPAIR EXISTING WALLS, CEILING, ROOF AS NEEDED.
2. REMOVE (E) MOTORIZED DAMPER. RECONNECT (E) DUCTWORK TO BE REUSED.
3. REMOVE (E) EXHAUST DUCT UP THUR ROOF AND CAP MAIN DUCT TO REUSE.
4. REMOVE (E) OA DUCT UP THUR ROOF.



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1501 California Avenue
Santa Monica, California 90403

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LICENSED ARCHITECT
RICHARD M. INSPERGO
NO. C-26229
REN. 2-25-21
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Project No. 19009

Sheet Title

Building 'C'
Second Floor
Mechanical
Demolition Plan

Sheet Number

MCD202

Plot Date: 11/15/2019 2:11:56 PM Last Save By: mzaw Login: Min Zaw H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MCD202.dwg

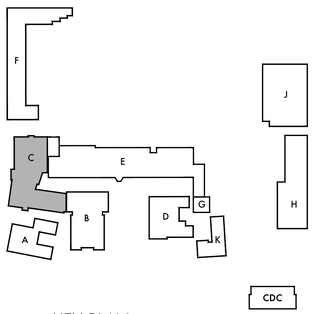
1 MECHANICAL ROOF PLAN

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

NORTH

KEYNOTES

1. REMOVE (E) VENTILATOR, DUCTWORK, SUPPORTS & PAD. (E) ROOF OPENNG WILL BE USED FOR (N) DUCTWORK. PATCH AND REPAIR EXISTING ROOF AS NEEDED.
2. REMOVE (E) VENTILATOR, DUCTWORK,SUPPORTS & PAD. PATCH AND REPAIR EXISTING ROOF AS NEEDED.
3. REMOVE (E) EXHAUST FAN, DUCTWORK, SUPPORTS & PAD. (E) ROOF OPENING WILL BE USED FOR (N) DUCTWORK. PATCH AND REPAIR EXISTING ROOF AS NEEDED.
4. REPLACE IN KIND; CONTRACTOR TO VERIFY MODEL #, HP, CFM, AND STATIC PRESSURE BEFORE DEMOLITION WORK, AND REBALANCE NEW FAN TO THE PRE-READ CFM QUANTITIES AND STATIC PRESSURES.
5. REMOVE (E) ENTIRE ASSOCIATED COMBUSTION AIR, FLUE PIPES & SUPPORTS ON THE ROOF. PATCH AND REPAIR EXISTING ROOF AS NEEDED, REFER TO DEMOLITION PLAN MCD202 FOR REMOVING THE (E) GAS FURNANCE UNIT.



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Santa Monica, California 90403

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LICENSED ARCHITECT
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P: 626.930.1383 F: 626.930.1385
Project No. 19009

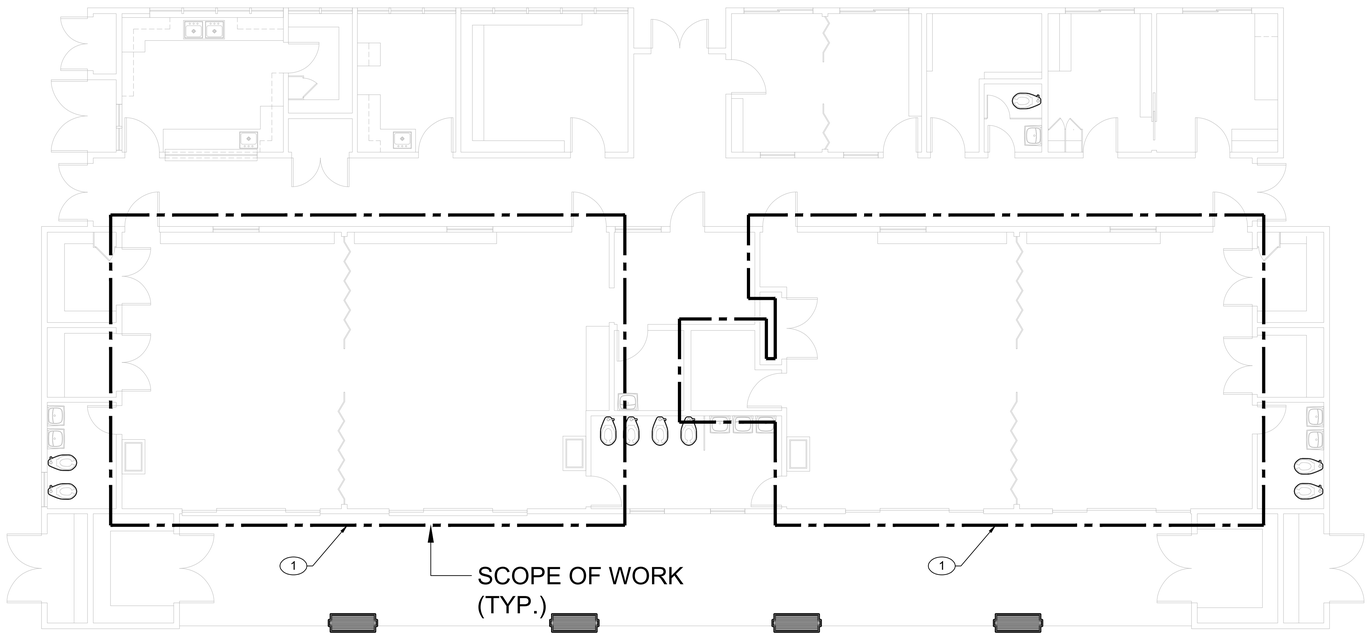
Sheet Title

Building 'C'
Mechanical Roof
Demolition
Plan

Sheet Number

MCD203

Plot Date: 11/15/2019 2:12:02 PM Last Save By: mzaw Login: Min Zaw H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MCD203.dwg



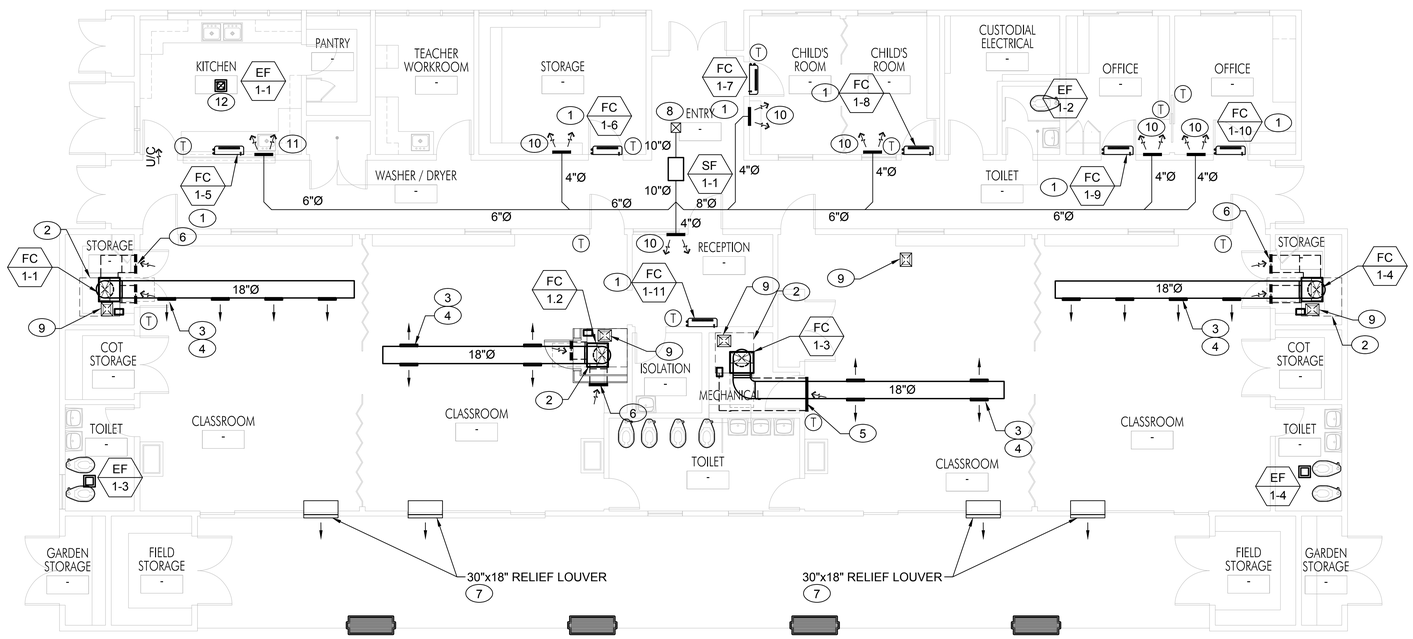
KEYNOTES

1. REMOVE (E) HEATING AND VENTILATION SYSTEM, DUCTWORK, PIPING SUPPORTS, THERMOSTAT, CONTROL AND ACCESSORIES WITHIN THE SCOPE OF WORK AREA UNLESS OTHERWISE NOTED. PATCH AND REPAIR EXISTING WALLS, CEILING, FLOOR AS NEEDED.

NORTH

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

2 MECHANICAL DEMOLITION PLAN



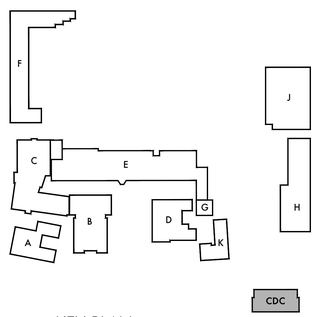
KEYNOTES

1. WALL MOUNTED FAN COIL UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE LOCATION W/ ALL OTHER TRADES. ENSURE PROPER ACCESS SPACE FOR MAINTENANCE. FOR MOUNTING DETAIL SEE -/M-. RUN REFRIGERANT LINES TO CORRESPONDING CONDENSER UNIT PER MANUFACTURER RECOMMENDATION.
2. 3'-4"x3'-6" RETURN AIR PLENUM BELOW FAN COIL UNIT.
3. 18"x6" SAG 400 CFM (TYP 4.)
4. PRICE SDG MODEL WITH AIR SCOOP (AS), DOUBLE DEFLECTION. (TYP.)
5. 36"x14" SWR, PRICE 1000 CFM.
6. 18"x14" SWR, PRICE 500 CFM.
7. PROVUDE BAROMETRIC RELIEF AIR DAMPER. SET DAMPER TO OPEN AT 0.05" PRESSURE.
8. 10"x10" OA DUCT UP THRU ROOF & PROVIDE ROOF CAP.
9. 12"x10" MAKE-UP AIR DUCT UP THRU ROOF.
10. 6"x6" SWS, PRICE 30 CFM.
11. 6"x6" SWS, PRICE 60 CFM.
12. 8"Ø EXHAUST DUCT UP THRU ROOF & PROVIDE ROOF CAP.

NORTH

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

1 MECHANICAL PLAN



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Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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REN. 2-25-21
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Project No. 19009

Sheet Title

Building 'CDC'
Mechanical Plans

Sheet Number

MCDC201

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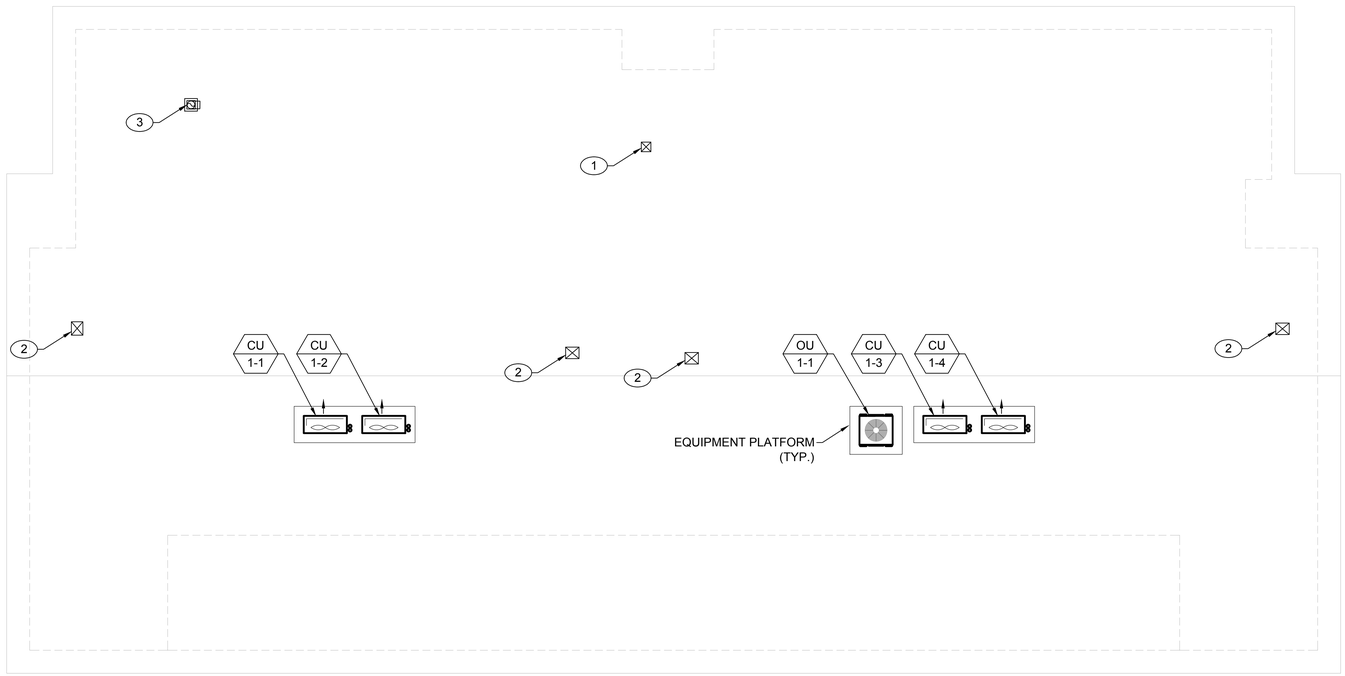


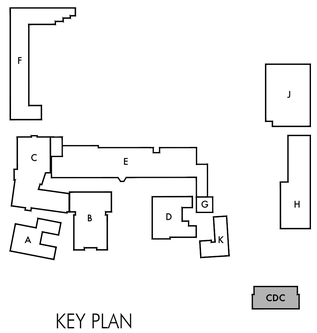
1 MECHANICAL ROOF PLAN

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

NORTH

KEYNOTES

1. 10"x10" OSA DUCT W/ 1" LINING DN THRU ROOF. PROVIDE ROOF JACK WITH WIRE MESH SCREEN.
2. 12"x10" OSA DUCT W/ 1" LINING DN THRU ROOF. OFFSET DUCT & CONNECT TO RETURN AIR PLENUM. PROVIDE ROOF JACK WITH WIRE MESH SCREEN.
3. 8"Ø EXHAUST DUCT DN THRU ROOF. PROVIDE ROOF CAP.



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Project No. 19009

Sheet Title

Building 'CDC'
Mechanical
Roof Plan

Sheet Number

MCDC202

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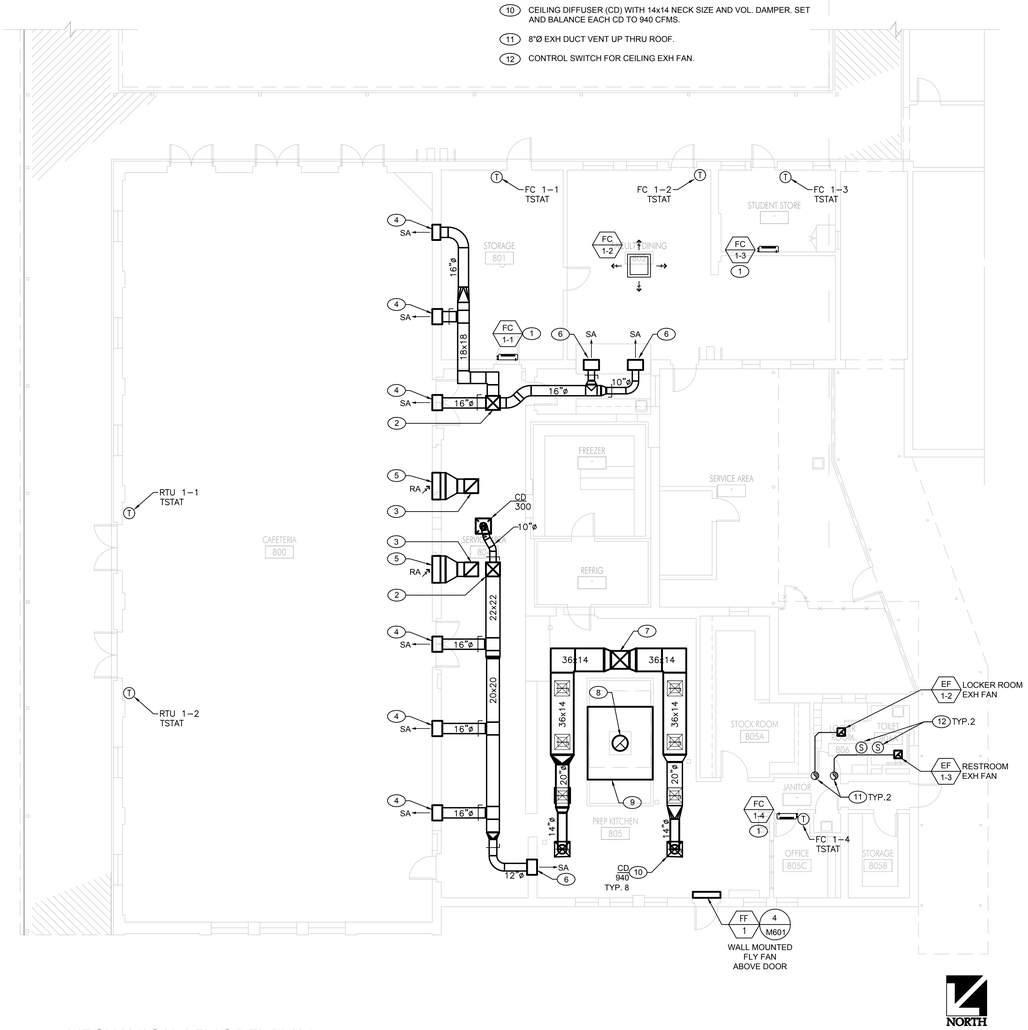
REMODEL GENERAL NOTES

1. ALL MECHANICAL WORK NEED TO BE COORDINATED WITH ARCHITECTURAL PLANS AND ENSURE THAT ALL EQUIPMENT, DUCTWORK, AIR DEVICES, PIPING, ETC SHALL AVOID CONFLICT WITH ANY ARCHITECTURAL ITEMS INCLUDING BUT NOT LIMITED TO LIGHTS, SPEAKERS, SPRINKLERS, ETC AND ADJUST MECHANICAL WORK AND ITEMS AS NEEDED. SEE ARCH PLANS FOR ADDITIONAL SCOPE OF WORK THAT MAY NOT BE ADDRESSED OR SHOWN ON MECHANICAL PLANS.
2. SEE ARCHITECTURAL DRAWINGS INCLUDING REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS FOR FURTHER DIMENSIONS AND LOCATIONS OF ALL THERMOSTATS, DIFFUSERS, GRILLES, REGISTERS, ETC.
3. FOR CLASSROOMS, AND OTHER SPACES WITH NEW HVAC REPLACEMENT, CONTRACTOR TO COORDINATE WITH SCHOOL DISTRICT REPRESENTATIVE FOR THERMOSTAT TYPE AND CONNECTIVITY TO ALLOW FOR SCHEDULING AND UNIT CONTROL.
4. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE BETWEEN ANY EXHAUST OUTLET AND OUTSIDE AIR INTAKE INTO THE BUILDING.
5. FOR INDIVIDUAL EQUIPMENT DETAIL REFERENCE, SEE EQUIPMENT SCHEDULES ON SHEET M002 THRU M007.
6. ALL EXPOSED DUCTWORK IN GYMNASIUM NEEDS TO BE FINISH APPEARANCE. SEE ARCHITECTURAL DRAWINGS FOR EXACT COLOR AND FINISHES.

REMODEL KEYNOTES

1. WALL MOUNTED FAN COIL UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE LOCATION W/ ALL OTHER TRADES. ENSURE PROPER ACCESS SPACE FOR MAINTENANCE. FOR MOUNTING DETAIL SEE -/M- RUN REFRIGERANT LINES TO CORRESPONDING CONDENSER UNIT PER MANUFACTURER RECOMMENDATION.
2. 22x22(L) SA DUCT UP THRU ROOF TO RTU (4,000 CFMS). COORDINATE DUCT ROUTING BETWEEN EXISTING FRAMING.
3. 22x22(L) RA DUCT UP THRU ROOF TO RTU (4,000 CFMR). COORDINATE DUCT ROUTING BETWEEN EXISTING FRAMING.
4. 24x24 SIDEWALL SA GRILLE (SWS). REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, COLOR AND FINISH.
5. 42(L)x24(H) SIDEWALL RA GRILLE (SWR). REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, COLOR AND FINISH.
6. 24x12 SIDEWALL SA GRILLE (SWS). REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, COLOR AND FINISH.
7. 28x28 SA DUCT UP THRU ROOF TO EC 1-1, 7500 CFMS. COORDINATE DUCT ROUTING BETWEEN EXISTING ROOF FRAMING.
8. 24"Ø KITCHEN EXHAUST DUCT WITH 3M 2-HOUR RATED FIRE WRAP UP THRU ROOF TO EF 1-1. PROVIDE NEW ROOF OPENING AS REQUIRED. PATCH, SEAL AND PAINT ANY UNUSED ROOF OPENING TO MATCH ADJACENT ROOF.
9. EXISTING KITCHEN HOOD TO REMAIN AND REFURBISHED TO LIKE NEW CONDITION. SEE DEMO GENERAL NOTES.
10. CEILING DIFFUSER (CD) WITH 14x14 NECK SIZE AND VOL. DAMPER. SET AND BALANCE EACH CD TO 940 CFMS.
11. 8"Ø EXH DUCT VENT UP THRU ROOF.
12. CONTROL SWITCH FOR CEILING EXH FAN.



1 MECHANICAL REMODEL PLAN

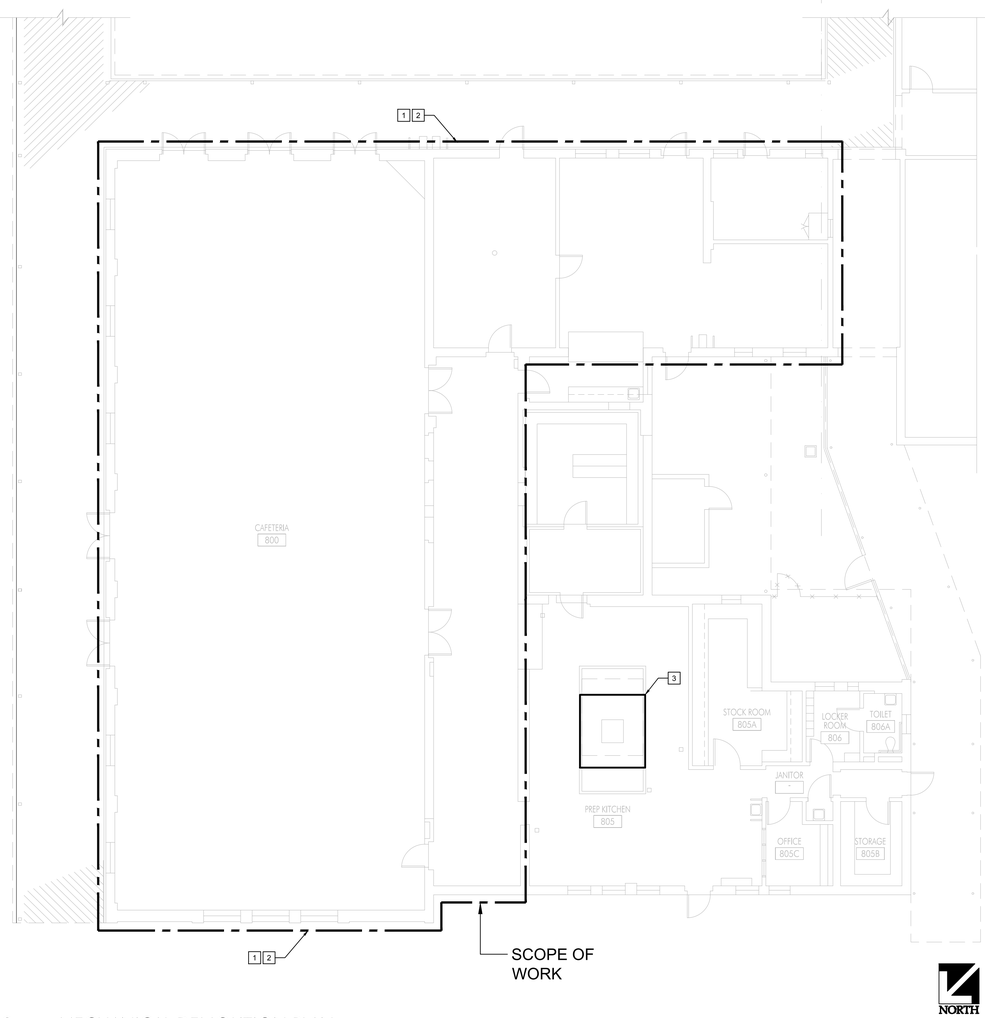
SCALE: 1/8"=1'-0"

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BID AND CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND BE THOROUGHLY FAMILIAR WITH THE DEMOLITION SCOPE OF WORK. HE SHALL FURNISH ALL LABORS, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO CARRY OUT THIS WORK AND SUBMIT ALL QUESTIONS IN WRITING PRIOR TO BID.
2. ANY EXISTING TO REMAIN EQUIPMENT AND DUCTWORK OUTSIDE OF DASHED LINES SCOPE OF WORK, SHALL BE REPAIRED, CLEANED AND PAINTED BY CONTRACTOR PER DISTRICT'S STANDARDS.
3. CONTRACTOR SHALL REPAIR, PATCH AND SEAL ALL UNUSED OR DAMAGED WALL AND ROOF OPENINGS/ PENETRATIONS TO BUILDING CAUSED BY DEMOLITION OF EQUIPMENT, PIPING, DUCTWORK, SUPPORTS, ETC.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING REGISTERS, DUCTWORK AND RELATED APPURTENANCES SHOWN WITHIN DASHED LINES SCOPE OF WORK. THEY MUST NOT BE ABANDONED IN PLACE UNLESS NOTED OTHERWISE
5. ALL DAMAGED, BROKEN OR INOPERABLE AIR DEVICES OR DAMPERS SHALL BE REPLACED BY CONTRACTOR WITH NEW LIKE SIZED COMPONENTS OR AIR DEVICES. CONTRACTOR SHALL CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. SUBMIT ALL QUESTIONS IN WRITING PRIOR TO BID.
6. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND DEVICES SUCH THAT COMPONENTS WILL BE ACCESSIBLE FOR MAINTENANCE.
7. FIRE PROTECTION DURING DEMOLITION / CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2016 CBC, CHAPTER 33.

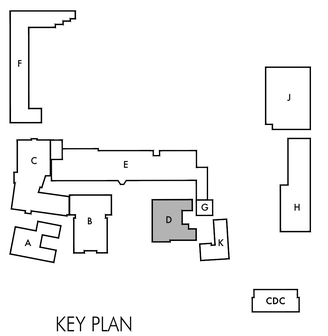
DEMOLITION KEYNOTES

1. DEMOLISH AND REMOVE ALL EXISTING HVAC EQUIPMENT AS SHOWN WITHIN DASHED LINES SCOPE OF WORK, INCLUDING BUT NOT LIMITED TO ALL EXISTING HVAC EQUIPMENT, DUCTWORK, AIR DEVICES, PIPING, SUPPORT, CONDUITS AND ALL ASSOCIATED APPURTENANCES AND DISPOSED OF PER OWNER'S DIRECTION. CONTRACTOR SHALL REPAIR, PATCH AND PAINT ALL ROOF, WALL, CEILING, FLOOR INCLUDING ANY ASSOCIATED OPENINGS OR PENETRATIONS TO MATCH ADJACENT SURFACES PER ARCHITECTURAL DRAWINGS.
2. CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO PROVIDE A CLEAR AND OPERABLE AREA FOR FUTURE REMODEL WORK.
3. EXISTING KITCHEN HOOD SHALL BE REPAIRED, CLEANED AND REFURBISHED TO LIKE NEW CONDITION BY CONTRACTOR PER DISTRICT'S STANDARDS.



2 MECHANICAL DEMOLITION PLAN

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



KEY PLAN

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

Date: .....
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Checked By: RI

Architect / Engineer Stamp

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Project No. 19009

Sheet Title
Building 'D'
Mechanical Plans

Sheet Number
MD201

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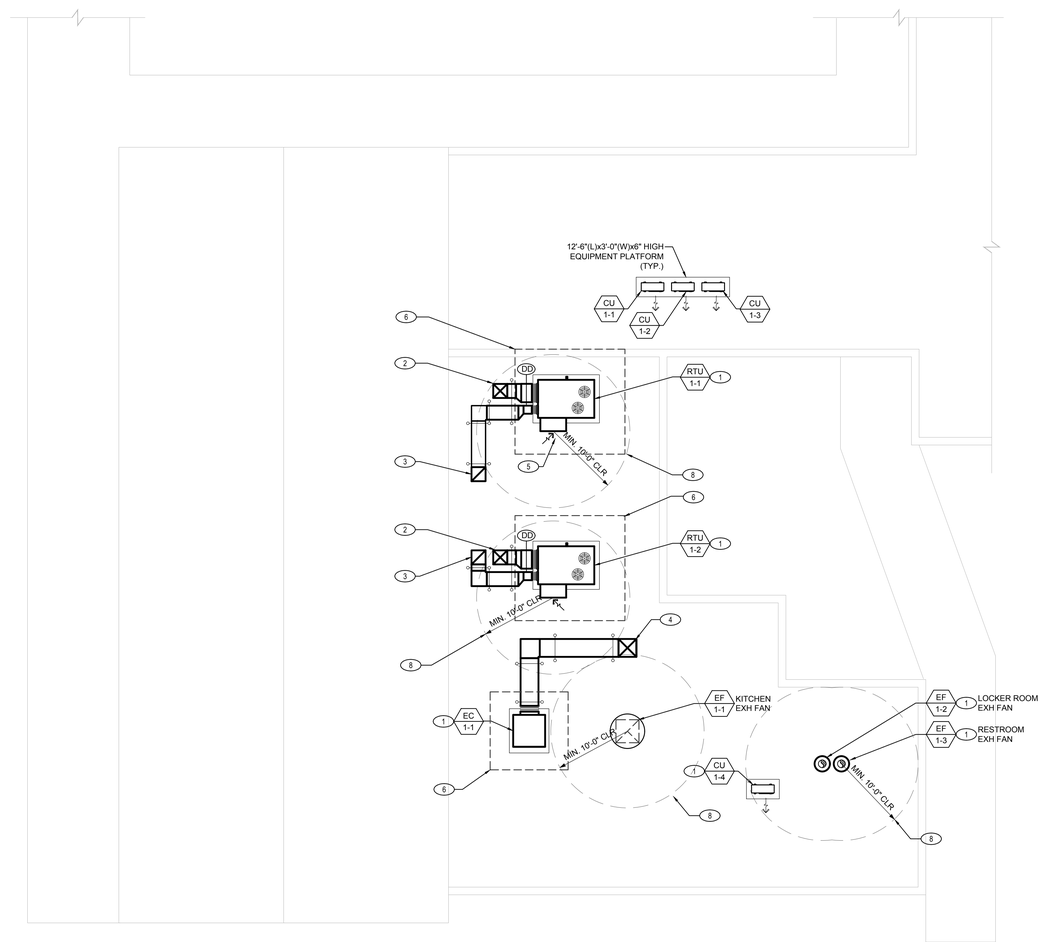


NORTH

1 MECHANICAL ROOF PLAN

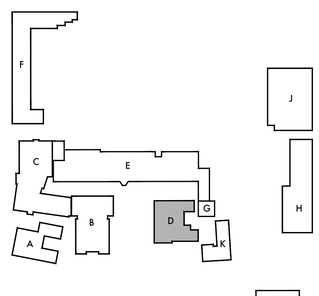
SCALE: 1/8" = 1'-0"

ROOF REMODEL KEYNOTES

1. HVAC EQUIPMENT MUST BE INSTALLED AT LEAST 10'-0" AWAY FROM PARAPET WALL.
2. 22x22(L) SA DUCT DOWN THRU ROOF. COORDINATE DUCT ROUTING BETWEEN EXISTING ROOF FRAMING OR OPENINGS. SEE STRUCTURAL DRAWINGS FOR FRAMING OF OPENINGS.
3. 22x22(L) RA DUCT DOWN THRU ROOF. COORDINATE DUCT ROUTING BETWEEN EXISTING ROOF FRAMING OR OPENINGS. SEE STRUCTURAL DRAWINGS FOR FRAMING OF OPENINGS.
4. 28x28(L) MAKE-UP AIR DUCT DOWN THRU ROOF SERVING KITCHEN BELOW. COORDINATE DUCT ROUTING BETWEEN EXISTING ROOF FRAMING OR OPENINGS. SEE STRUCTURAL DRAWINGS FOR FRAMING OF OPENINGS.
5. RTU OSA INTAKE HOOD. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OSA HOOD AND ANY EXHAUST FROM THE BUILDING. RELOCATE EQUIPMENT AS REQUIRED TO MEET THIS CODE REQUIRED CLEARANCE(S).
6. MINIMUM MANUFACTURER CLEARANCES ALL AROUND EACH RTU FOR EQUIPMENT MAINTENANCE AND ACCESS. REFER TO MANUFACTURER WRITTEN RECOMMENDATIONS FOR EXACT REQUIRED CLEARANCES.
7. SMOKE DUCT DETECTOR IN SUPPLY DUCT FOR RTUs SERVING IN SPACES WITH CUMULATIVE AIR SUPPLY QUANTITY IN EXCESS OF 2000 CFM.
8. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN ANY EXHAUST AND ANY FRESH AIR INTAKE INTO THE BUILDING. RELOCATE EQUIPMENT AS REQUIRED TO MEET THIS CODE REQUIRED CLEARANCE(S).
9. CONNECT REFRIGERANT PIPING BETWEEN FAN COIL AND OUTDOOR CONDENSING UNIT. SEE M0.2 AND DETAILS 3 & 4/M6.2 FOR FURTHER INFORMATION.

ROOF REMODEL GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE REMODEL SCOPE OF WORK. HE SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO CARRY THIS WORK.
2. ALL ROOFTOP EQUIPMENTS MUST BE INSTALLED AT LEAST 10 FEET AWAY FROM ANY PARAPET WALL.
3. SEE ARCHITECTURAL DRAWINGS INCLUDING REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS FOR FURTHER DIMENSIONS AND LOCATIONS OF ALL THERMOSTATS, DIFFUSERS, GRILLES, REGISTERS, ETC.
4. ALL EXPOSED DUCTWORK SHALL BE 26 GAUGE GALVANIZED STEEL WITH DOUBLE DUCT CONSTRUCTION PER SMACNA GUIDELINES.
5. FOR ALL NEW THERMOSTATS, PROVIDE ALL WIRING, CONDUITS, SUPPORT, FITTINGS, CONTROLS AND REQUIRED ACCESSORIES FOR CONNECTIONS BETWEEN TSTAT AND RESPECTIVE ROOFTOP PACKAGE UNIT.
6. FOR INDIVIDUAL EQUIPMENT DETAIL REFERENCE, SEE EQUIPMENT SCHEDULES ON SHEET M002 THRU M007.
7. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE BETWEEN ANY EXHAUST OUTLET AND OUTSIDE AIR INTAKE INTO THE BUILDING.



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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Checked By: RI

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Project No. 19009

Sheet Title

Building 'D'
Mechanical
Roof Plan

Sheet Number

MD202

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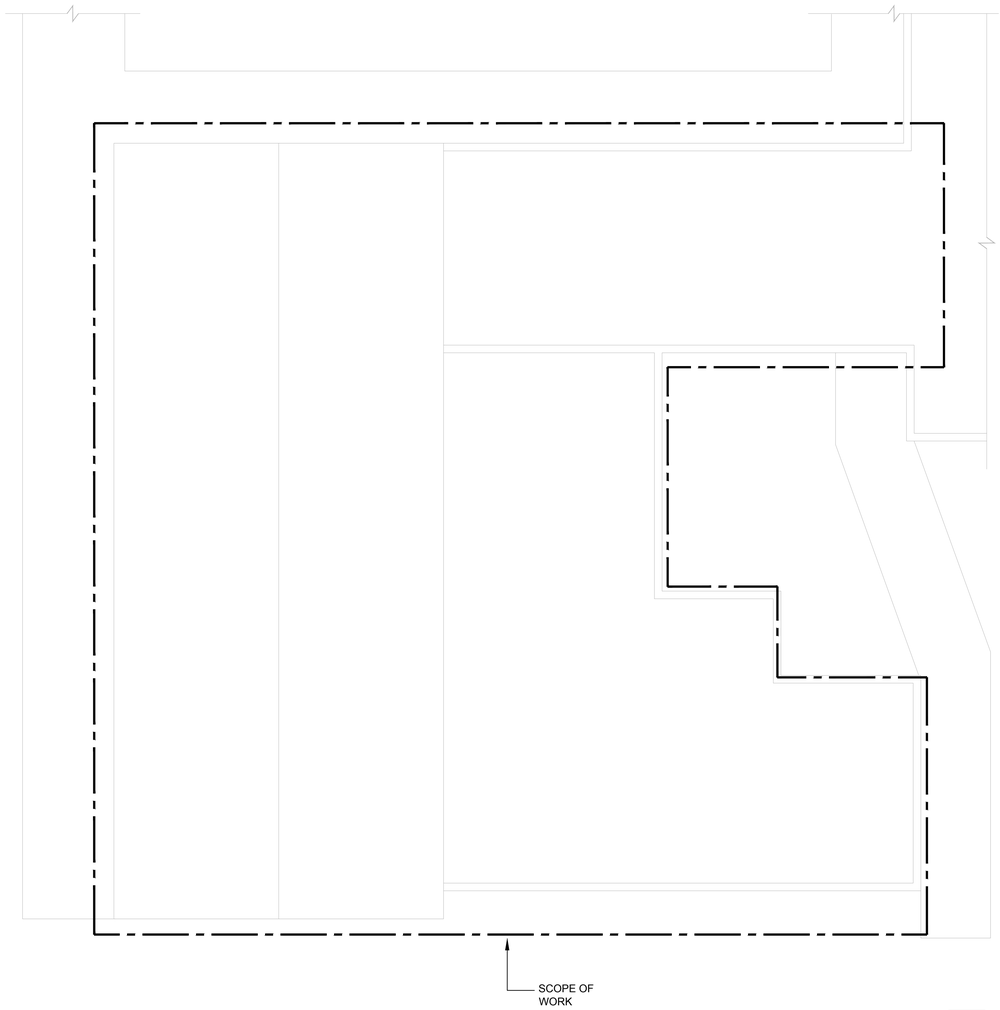
ROOF DEMOLITION NOTES

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BID AND CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND BE THOROUGHLY FAMILIAR WITH THE DEMOLITION SCOPE OF WORK. HE SHALL FURNISH ALL LABORS, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO CARRY OUT THIS WORK AND SUBMIT ALL QUESTIONS IN WRITING PRIOR TO BID.
2. DEMOLISH AND REMOVE ALL EXISTING HVAC EQUIPMENT AS SHOWN WITHIN DASHED LINES, INCLUDING BUT NOT LIMITED TO ALL EXISTING HVAC EQUIPMENT, DUCTWORK, AIR DEVICES, PIPING, SUPPORT, CONDUITS AND ALL ASSOCIATED APPURTENANCES AND DISPOSED OF PER OWNER'S DIRECTION. CONTRACTOR SHALL REPAIR, PATCH AND PAINT ALL ROOF OPENINGS OR PENETRATIONS TO BUILDING TO MATCH ADJACENT SURFACES PER ARCHITECTURAL DRAWINGS.
3. CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO PROVIDE A CLEAR AND OPERABLE AREA FOR FUTURE REMODEL WORK.

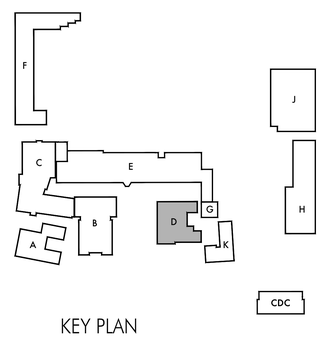


1 MECHANICAL ROOF DEMOLITION PLAN

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

KEYNOTES

1 XX-XX



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1501 California Avenue
Santa Monica, California 90403

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Project No. 19009

Sheet Title

Building 'D'
Mechanical Roof
Demolition Plan

Sheet Number

MDD202

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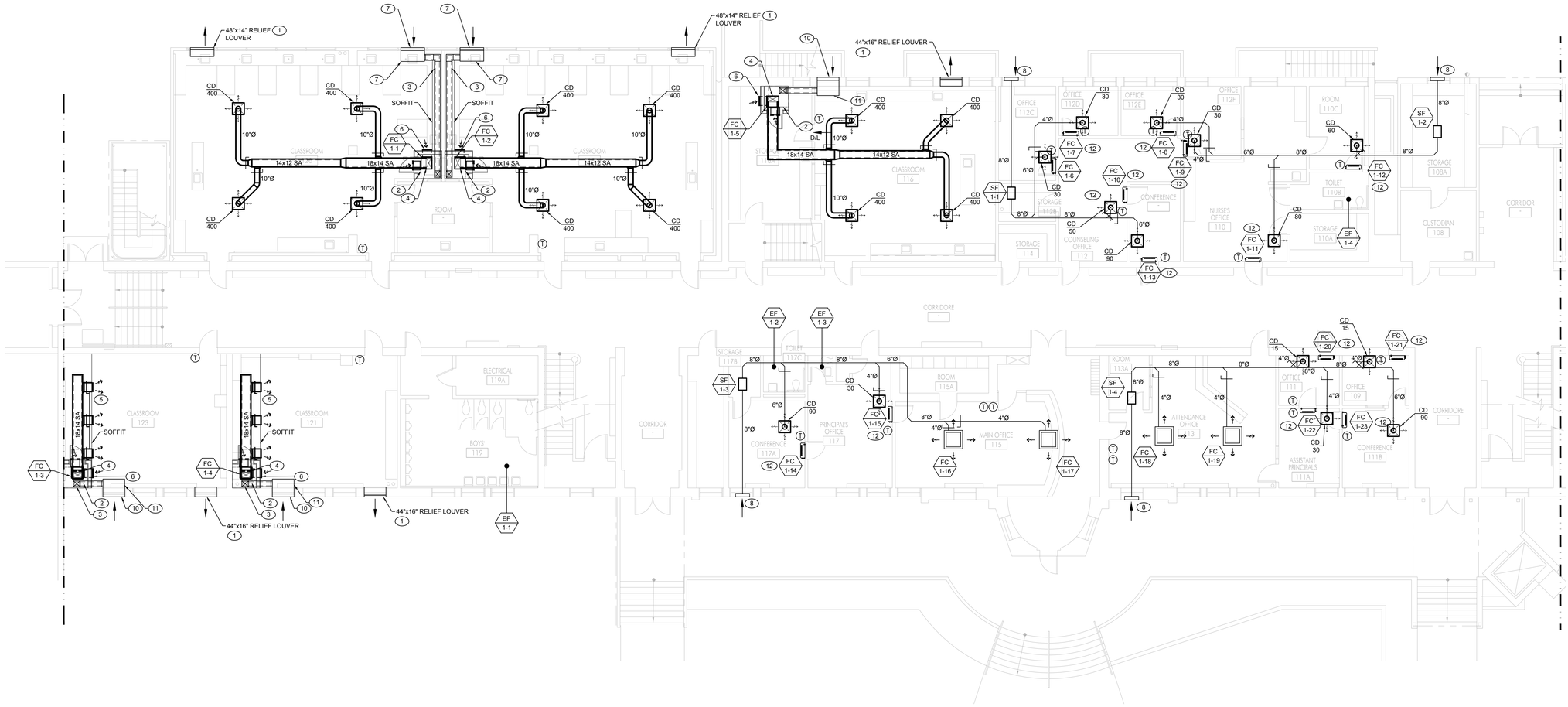
KEYNOTES

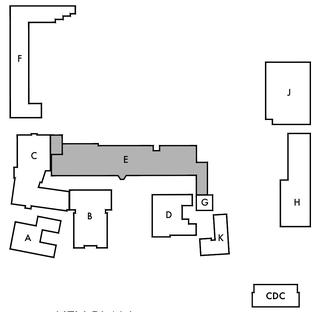
1. PROVIDE BAROMETRIC RELIEF AIR DAMPER. SET DAMPER TO OPEN AT 0.05" PRESSURE.
2. 3'-4"x3'-6" RETURN AIR PLENUM BELOW FAN COIL UNIT.
3. 12"x10" OSA INTAKE DUCT W/ 1" LINING DN & CONNECT TO RETURN AIR PLENUM.
4. 18"x14" SA DUCT W/ 1" LINING DN AND CONNECT TO UNIT'S SUPPLY AIR OPENING. PROVIDE ALL NECESSARY FITTINGS.
5. 18"x10" SWS PRICE 500, DOUBLE DEFLECTION, 535 CFM (TYP 3.)
6. 18"x14" SWR, PRICE 500, 575 CFM, (TYP 2.)
7. 48"x14" OSA INTAKE LOUVER.
8. 12"X12" OSA INTAKE LOUVER W/ PLENUM.
9. 48" (L) x 22" (W) x 14" (H) OSA PLENUM.
10. 44"x16" OSA INTAKE LOUVER.
11. 44" (L) x 30" (W) x 16" (H) OSA PLENUM.
12. WALL MOUNTED FAN COIL UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE LOCATION W/ ALL OTHER TRADES. ENSURE PROPER ACCESS SPACE FOR MAINTENANCE. FOR MOUNTING DETAIL SEE -/M-. RUN REFRIGERANT LINES TO CORRESPONDING CONDENSER UNIT PER MANUFACTURER RECOMMENDATION.



1 FIRST FLOOR MECHANICAL PLAN - SEGMENT A

NORTH

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



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Project No. 19009

Sheet Title

Building 'E'
First Floor
Mechanical Plan
Segment A

Sheet Number

ME201A

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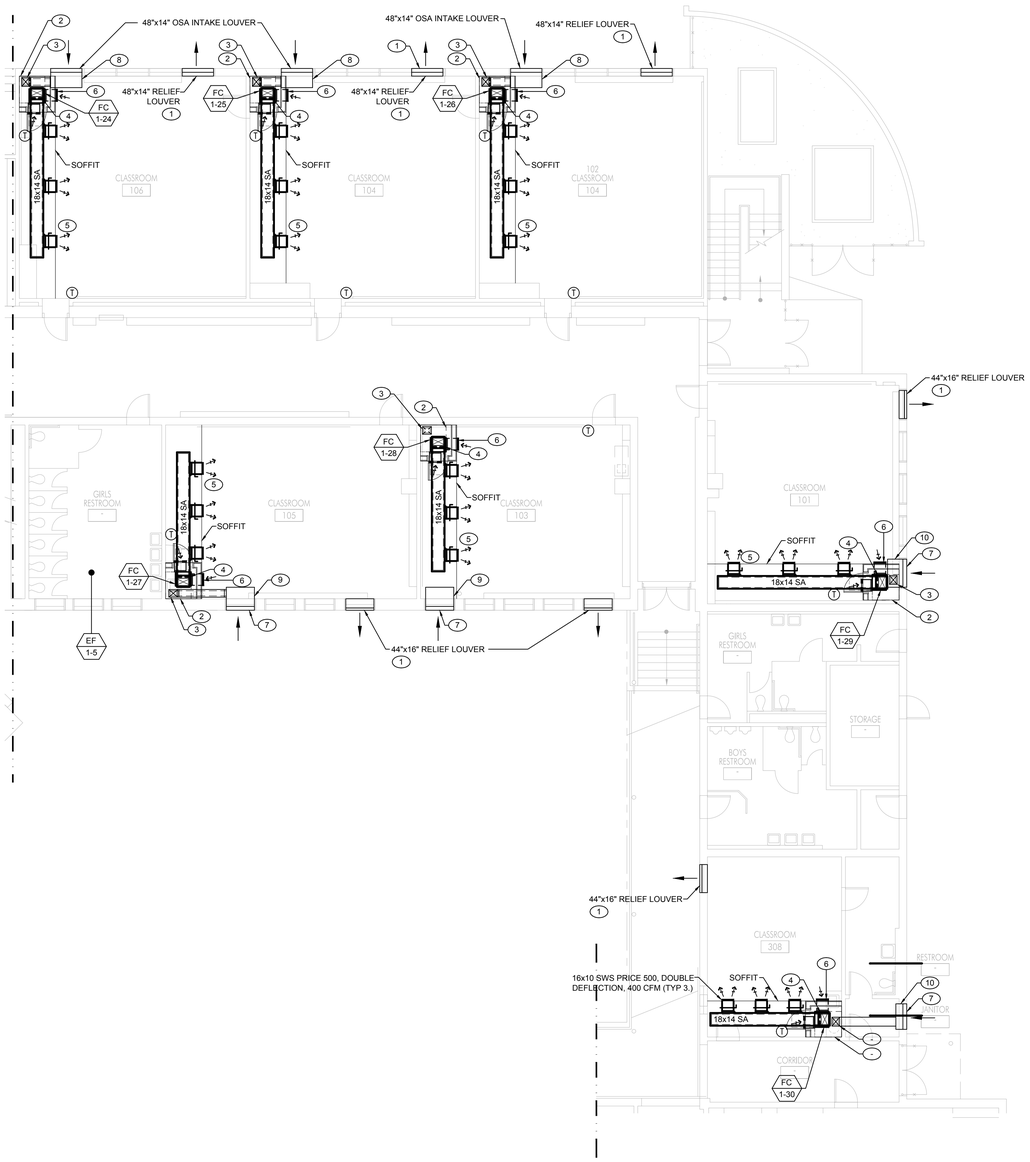


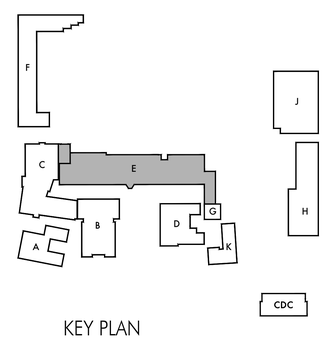
1 FIRST FLOOR MECHANICAL PLAN - SEGMENT B

NORTH

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

KEYNOTES

1. PROVIDE BAROMETRIC RELIEF AIR DAMPER. SET DAMPER TO OPEN AT 0.05" PRESSURE.
2. 3'-4"x3'-6" RETURN AIR PLENUM BELOW FAN COIL UNIT.
3. 12"x10" OSA INTAKE DUCT W/ 1" LINING DN & CONNECT TO RETURN AIR PLENUM.
4. 18x14 SA DUCT W/ 1" LINING DN AND CONNECT TO UNIT'S SUPPLY AIR OPENING. PROVIDE ALL NECESSARY FITTINGS.
5. 18x10 SWS PRICE 500, DOUBLE DEFLECTION, 535 CFM (TYP 3.)
6. 18x14 SWR, PRICE 500, 575 CFM, (TYP 2.)
7. 44"x16" OSA INTAKE LOUVER.
8. 48" (L) x 24" (W) x 14" (H) OSA PLENUM.
9. 44" (L) x 30" (W) x 16" (H) OSA PLENUM.
10. 44" (L) x 24" (W) x 16" (H) OSA PLENUM.



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Building 'E'
First Floor
Mechanical Plan
Segment B

Sheet Number

ME201B

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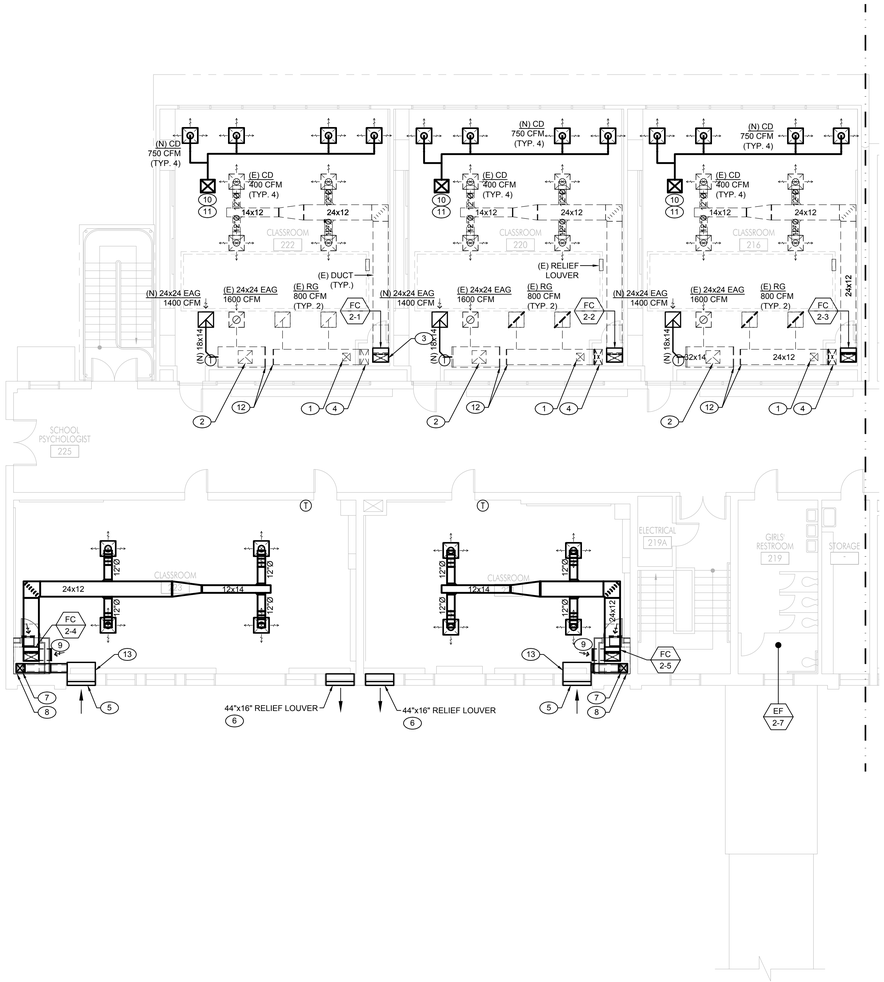


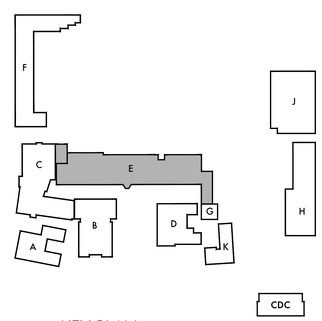
1 SECOND FLOOR MECHANICAL PLAN - SEGMENT A

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

NORTH

KEYNOTES

1. (E) 12x12 OSA DUCT W/ 1" LINING UP THRU ROOF AND CONNECT TO (N) GRAVITY INTAKE VENTILATOR. PROVIDE DUCT FITTING AS NEEDED.
2. (E) 22x20 EA DUCT UP THRU ROOF & CONNECT TO (N) EXHAUST FAN. PROVIDE DUCT FITTING AS NEEDED.
3. 24x12 SA DUCT W/ 1" LINING DN AND CONNECT TO UNIT'S SUPPLY AIR OPENING. PROVIDE ALL NECESSARY FITTINGS.
4. 24x12 RA DUCT W/ 1" LINING DN & CONNECT TO RETURN AIR PLENUM.
5. 44"x16" OSA INTAKE LOUVER.
6. PROVIDE BAROMETRIC RELIEF AIR DAMPER. SET DAMPER TO OPEN AT 0.05" PRESSURE.
7. 12"x10" OSA INTAKE DUCT W/ 1" LINING DN & CONNECT TO RETURN AIR PLENUM.
8. 3'-4"x3'-6" RETURN AIR PLENUM BELOW FAN COIL UNIT.
9. 18x14 SWR, PRICE 500, 575 CFM, (TYP 2.)
10. 22"x20" MAKE-UP AIR DUCT UP THRU ROOF.
11. PROVIDE 1" DUCT LINER THROUGHOUT.
12. PROVIDE CAP.
13. 44" (L) x 30" (W) x 16" (H) OSA PLENUM.



KEY PLAN

DSA Stamp

Architect

RACHLIN PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

Date: .....
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. RUDNICK
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

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421 East Huntington Drive
Monrovia, California 91016
P: 626.930.1383 F: 626.930.1385
Project No. 19009

Sheet Title

Building 'E'
Second Floor
Mechanical Plan
Segment A

Sheet Number

ME202A

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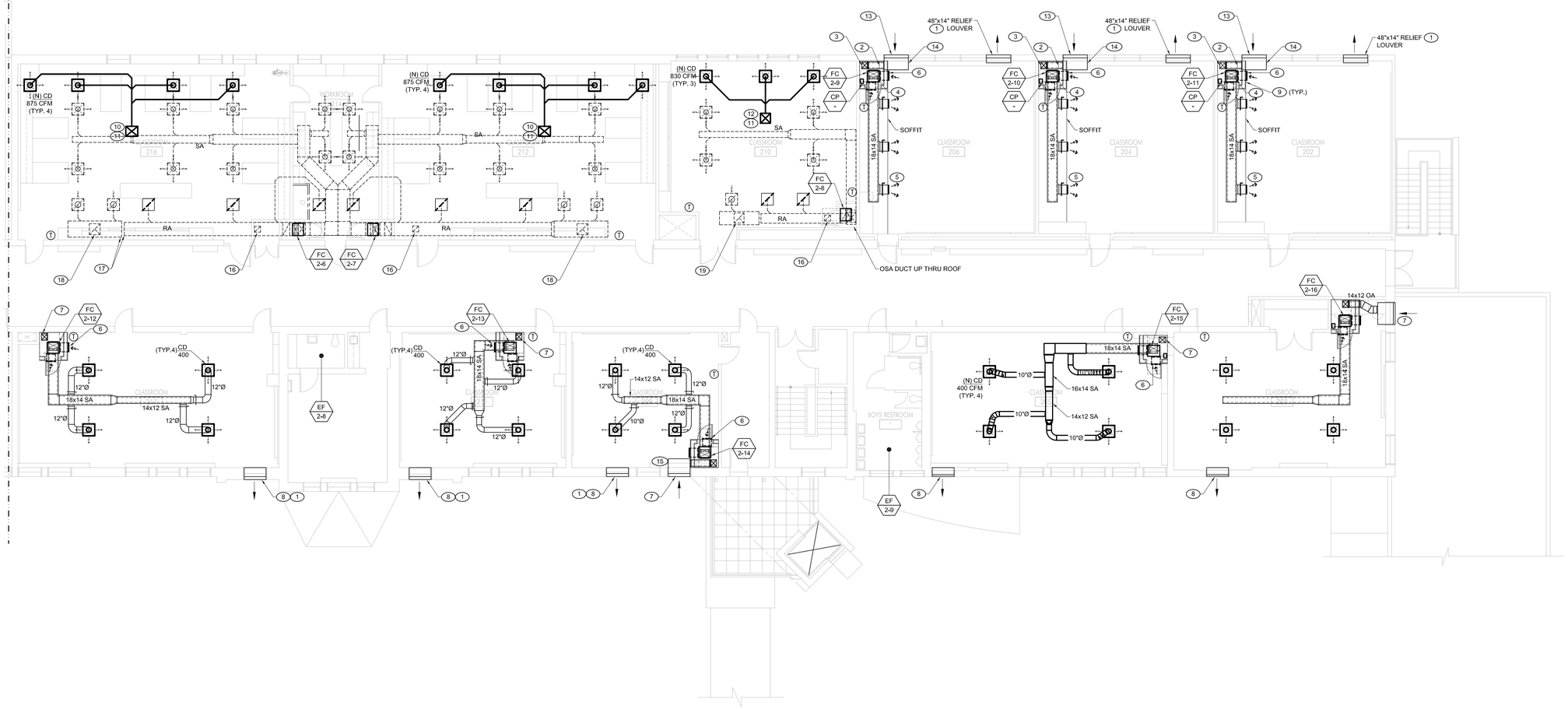
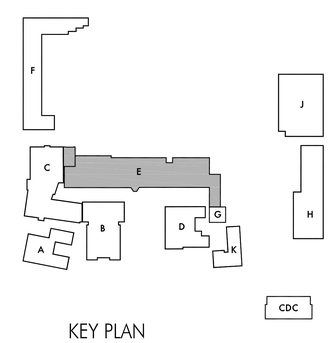
KEYNOTES

1. PROVIDE BAROMETRIC RELIEF AIR DAMPER. SET DAMPER TO OPEN AT 0.05" PRESSURE.
2. 3'-4"x3'-6" RETURN AIR PLENUM BELOW FAN COIL UNIT.
3. 12"x10" OSA INTAKE DUCT W/ 1" LINING DN & CONNECT TO RETURN AIR PLENUM.
4. 18x14 SA DUCT W/ 1" LINING DN AND CONNECT TO UNIT'S SUPPLY AIR OPENING. PROVIDE ALL NECESSARY FITTINGS.
5. 18x10 SWS PRICE 500, DOUBLE DEFLECTION, 535 CFM (TYP 3.)
6. 18x14 SWR, PRICE 500, 575 CFM, (TYP 2.)
7. 12"x10" OSA INTAKE DUCT W/ 1" LINING UP THRU ROOF.
8. 44"x16" RELIEF LOUVER
9. NEW FAN COIL UNIT CLOSET, REFER TO ARCHITECTURAL DRAWING. MIN. 4'-0"x4'-0" CLEAR INSIDE DIMENSION.
10. 24"x20" MAKE-UP AIR DUCT UP THRU ROOF.
11. PROVIDE 1" DUCT LINER THROUGHOUT.
12. 20"x20" MAKE-UP AIR DUCT UP THRU ROOF.
13. 48"x14" OSA INTAKE LOUVER.
14. 48" (L) x 24" (W) x 14" (H) OSA PLENUM.
15. 44" (L) x 30" (W) x 16" (H) OSA PLENUM.
16. (E) 12x12 OSA DUCT W/ 1" LINING UP THRU ROOF AND CONNECT TO (N) GRAVITY INTAKE VENTILATOR. PROVIDE DUCT FITTING AS NEEDED.
17. PROVIDE CAP.
18. (E) 22x22 EA DUCT UP THRU ROOF & CONNECT TO (N) EXHAUST FAN. PROVIDE DUCT FITTING AS NEEDED.
19. (E) 20x20 EA DUCT UP THRU ROOF & CONNECT TO (N) EXHAUST FAN. PROVIDE DUCT FITTING AS NEEDED.



1 SECOND FLOOR MECHANICAL PLAN - SEGMENT B

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



KEY PLAN

Architect

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Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
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Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
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REN. 2-28-21
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Project No. 19009

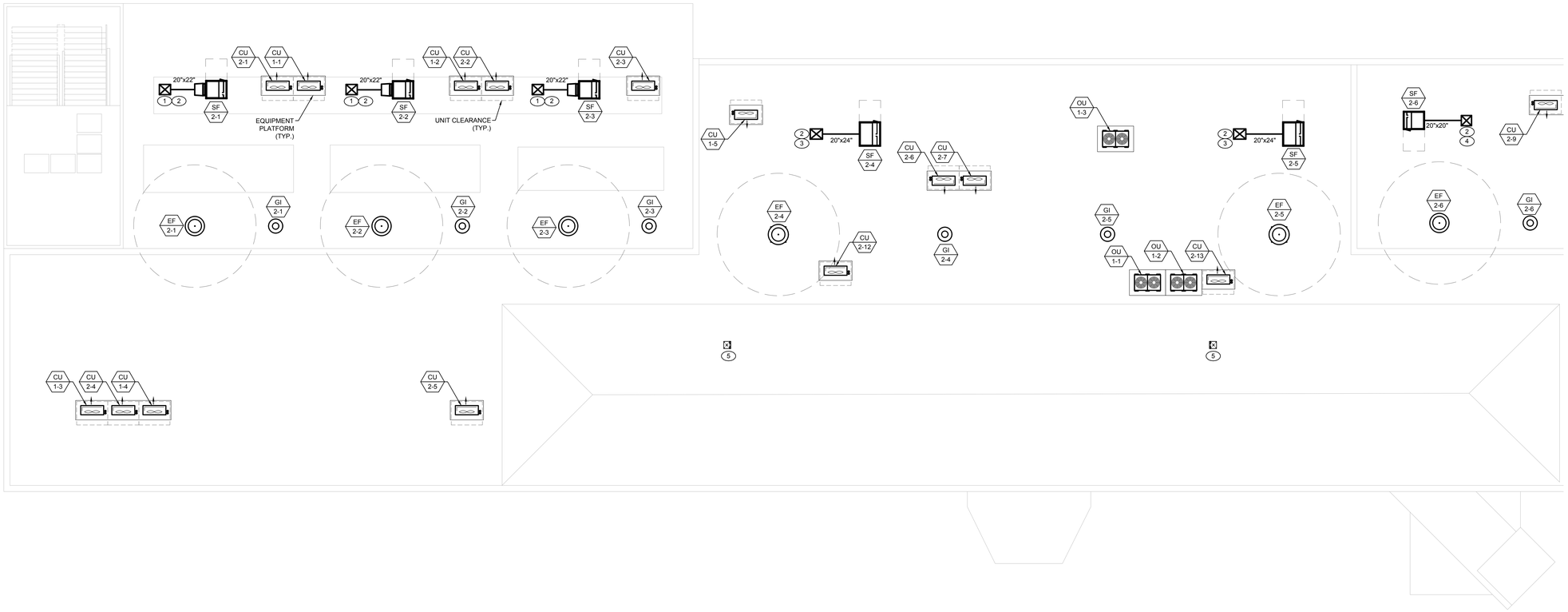
Sheet Title

Building 'E'
Second Floor
Mechanical Plan
Segment B

Sheet Number

ME202B

Plot Date: 11/15/2019 2:44:50 PM Last Save By: szolnbjianhofi Login: Min Zaw H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_ME202B.dwg



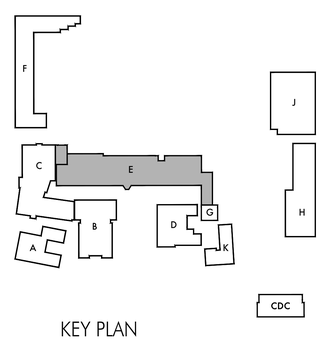
1 MECHANICAL ROOF PLAN - SEGMENT A

NORTH

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

KEYNOTES

1. 22"x20" MAKE-UP AIR DUCT DN THRU ROOF.
2. PROVIDE 1" DUCT LINER THROUGHOUT.
3. 24"x20" MAKE-UP AIR DUCT DN THRU ROOF.
4. 20"x20" MAKE-UP AIR DUCT DN THRU ROOF.
5. 12"x10" OSA DUCT W/ 1" LINING DN THRU ROOF & CONNECT TO RETURN AIR PLENUM. PROVIDE ROOF JACK WITH WIRE MESH SCREEN.



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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Project No. 19009

Sheet Title

Building 'E'
Mechanical
Roof Plan
Segment A

Sheet Number

ME203A

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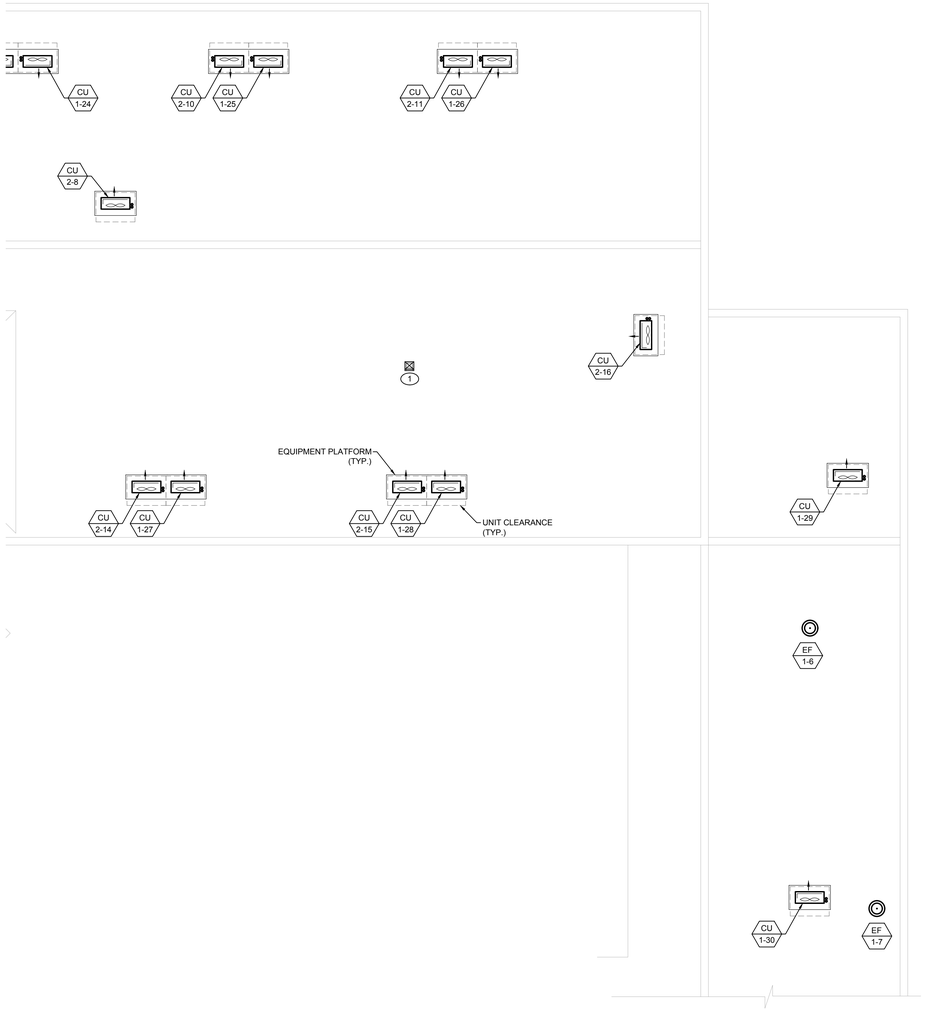


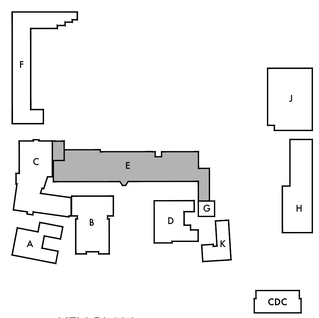
1 MECHANICAL ROOF PLAN - SEGMENT B

NORTH

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

KEYNOTES

1. 12"x10" OSA DUCT W/ 1" LINING DN THRU ROOF & CONNECT TO RETURN AIR PLENUM. PROVIDE ROOF JACK WITH WIRE MESH SCREEN.



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Lincoln Middle School
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Santa Monica, California 90403

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LICENSED ARCHITECT
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Project No. 19009

Sheet Title

Building 'E'
Mechanical
Roof Plan
Segment B

Sheet Number

ME203B

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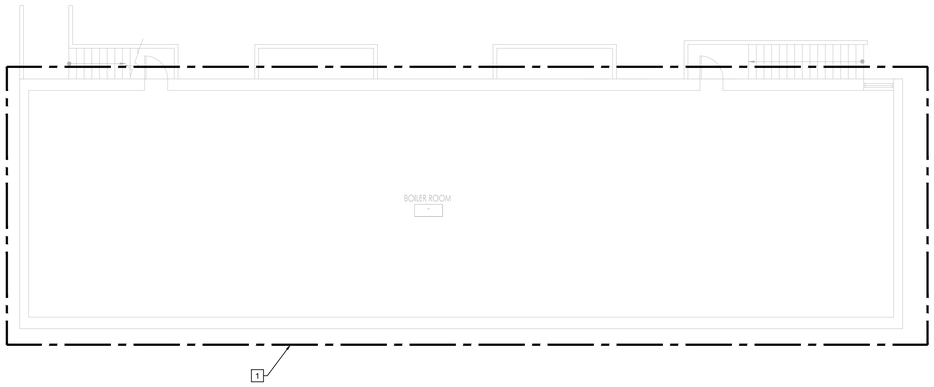
DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BID AND CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND BE THOROUGHLY FAMILIAR WITH THE DEMOLITION SCOPE OF WORK. HE SHALL FURNISH ALL LABORS, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO CARRY OUT THIS WORK AND SUBMIT ALL QUESTIONS IN WRITING PRIOR TO BID.
2. CONTRACTOR SHALL REPAIR, PATCH AND SEAL ALL UNUSED OR DAMAGED WALL AND ROOF OPENINGS/ PENETRATIONS TO BUILDING CAUSED BY DEMOLITION OF EQUIPMENT, PIPING, DUCTWORK, SUPPORTS, ETC.
3. ALL DAMAGED, BROKEN OR INOPERABLE AIR DEVICES OR DAMPERS SHALL BE REPLACED BY CONTRACTOR WITH NEW LIKE SIZED COMPONENTS OR AIR DEVICES. CONTRACTOR SHALL CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. SUBMIT ALL QUESTIONS IN WRITING PRIOR TO BID.
4. FIRE PROTECTION DURING DEMOLITION / CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2016 CBC, CHAPTER 33.

DEMOLITION KEYNOTES

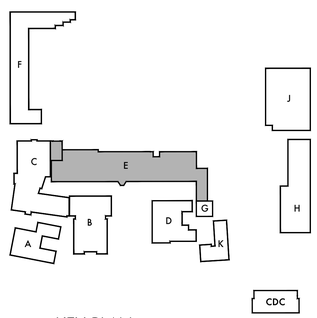
1 REMOVE (E) HEATING SYSTEM IN THE BASEMENT AND ALL RELATED EQUIPMENT, PIPING, PUMPS, PIPE DISTRIBUTION, PIPING SUPPORTS, ELECTRICAL AND CONTROLS. PATCH AND REPAIR EXISTING WALLS, FLOORS, CEILING, ETC AS NEEDED TO MATCH EXISTING. VERIFY WITH THE DISTRICT AND OBTAIN AUTHORIZATION PRIOR TO REMOVAL AND DEMOLITION WORK. DISTRICT TO SALVAGE PARTS OF THE FURNACES SUCH AS BURNERS, ETC. PRIOR TO ANY DEMOLITION WORK.



1 BASEMENT MECHANICAL DEMOLITION PLAN

NORTH

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



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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Date: .....
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Checked By: RI

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LICENSED ARCHITECT
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Project No. 19009

Sheet Title

Building 'E'
Basement
Mechanical
Demolition Plan

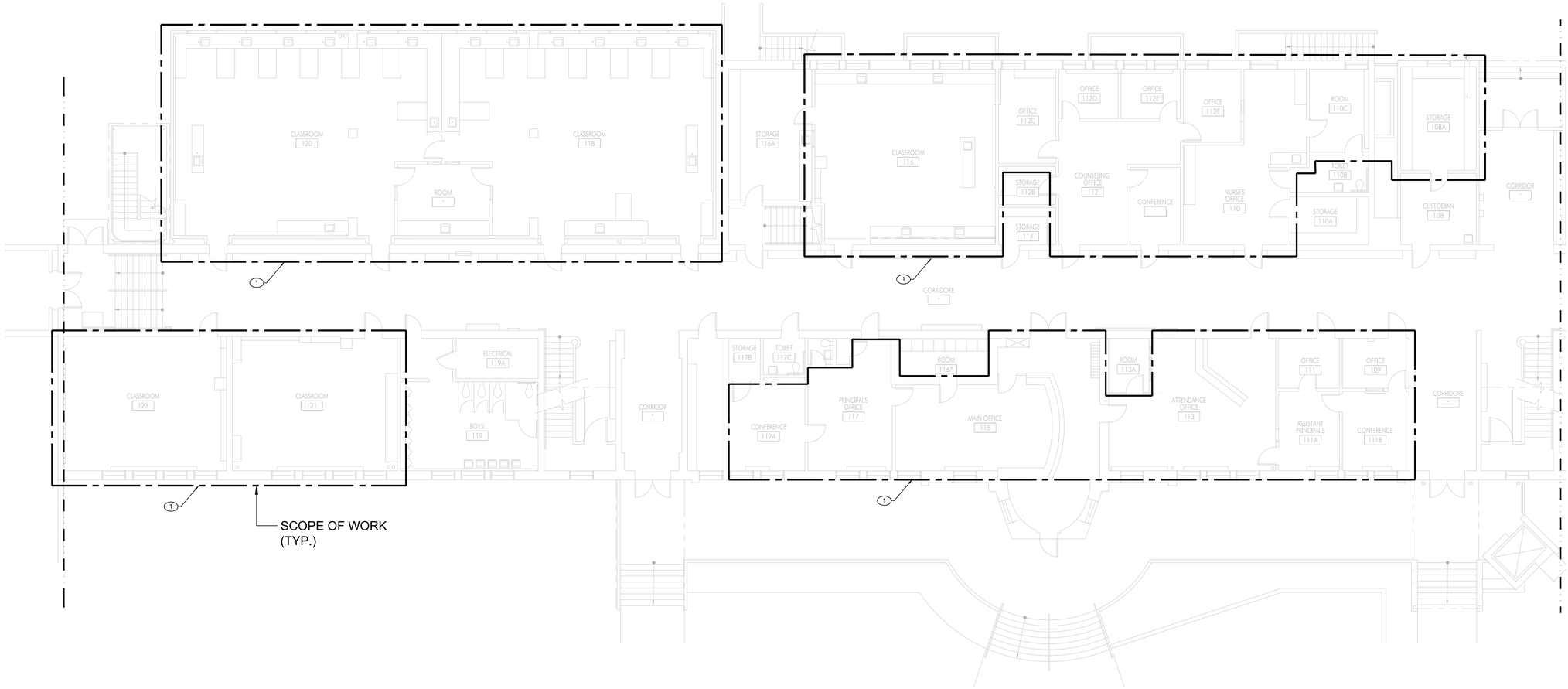
Sheet Number

MED200

Plot Date: 11/15/2019 2:13:21 PM Last Save By: mzaw Login: Min Zaw H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MED200.dwg

KEYNOTES

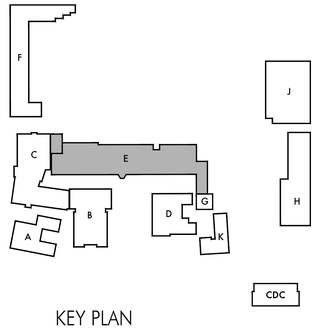
1. REMOVE (E) HEATING AND VENTILATION SYSTEM, DUCTWORK, PIPING SUPPORTS, THERMOSTAT, CONTROL AND ACCESSORIES WITHIN THE SCOPE OF WORK AREA UNLESS OTHERWISE NOTED. PATCH AND REPAIR EXISTING WALLS, CEILING, FLOOR AS NEEDED.



NORTH

1 FIRST FLOOR MECHANICAL DEMOLITION PLAN - SEGMENT A

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



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Project No. 19009

Sheet Title

Building 'E'
First Floor
Mechanical Demo.
Plan Segment A

Sheet Number

MED201A

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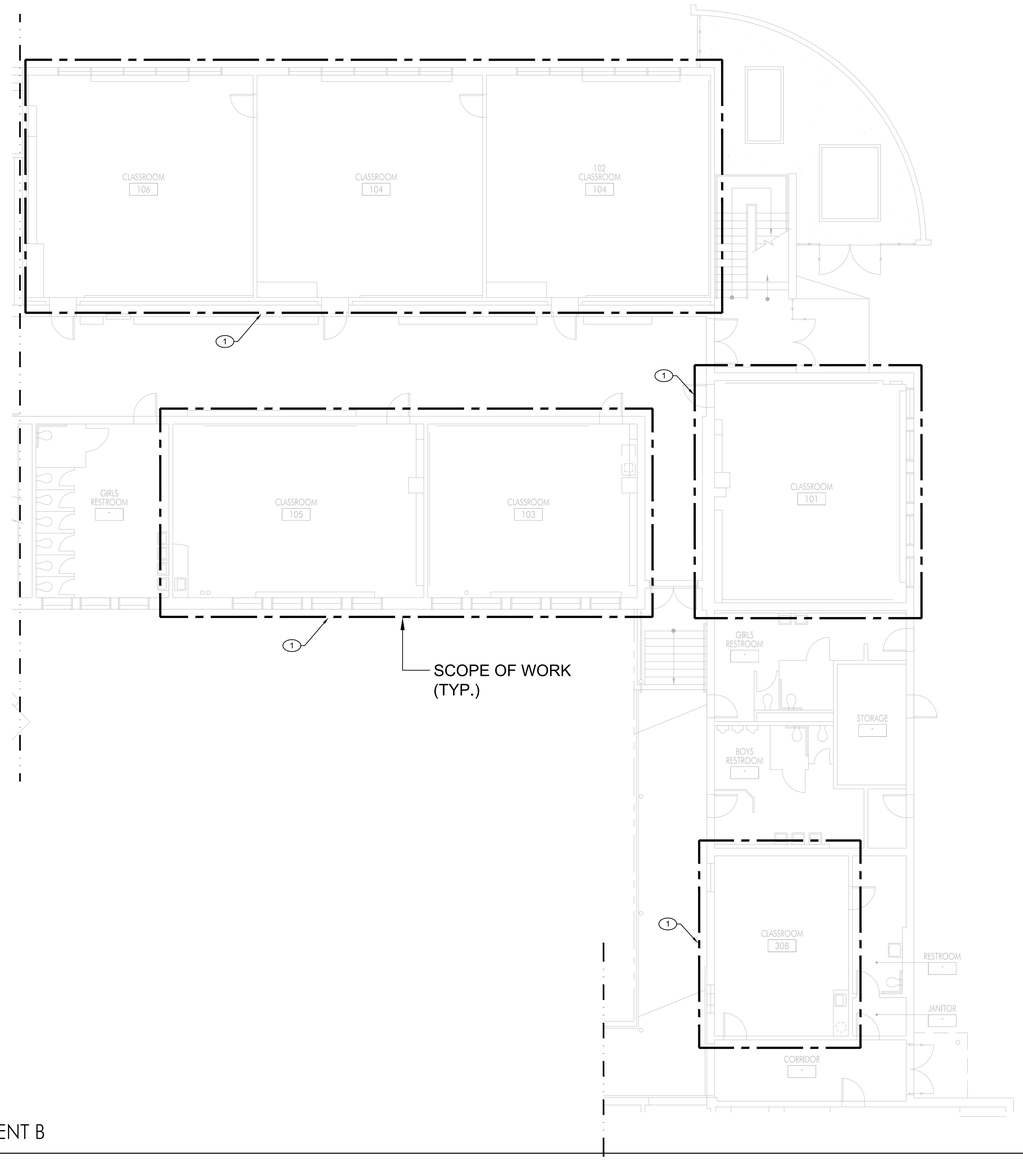


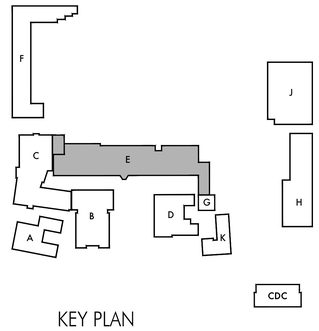
1 FIRST FLOOR MECHANICAL DEMOLITION PLAN - SEGMENT B

NORTH

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

KEYNOTES

1. REMOVE (E) HEATING AND VENTILATION SYSTEM, DUCTWORK, PIPING SUPPORTS, THERMOSTAT, CONTROL AND ACCESSORIES WITHIN THE SCOPE OF WORK AREA UNLESS OTHERWISE NOTED. PATCH AND REPAIR EXISTING WALLS, CEILING, FLOOR AS NEEDED.



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Project No. 19009

Sheet Title

Building 'E'
First Floor
Mechanical Demo.
Plan Segment B

Sheet Number

MED201B

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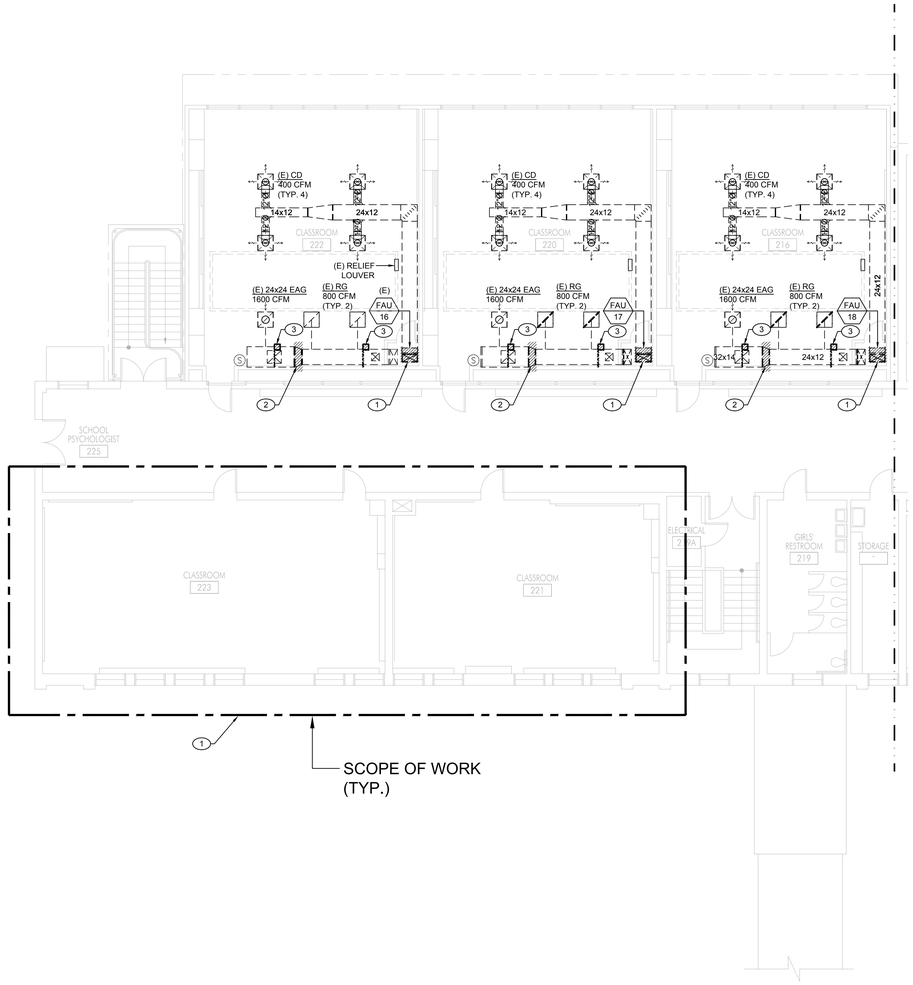


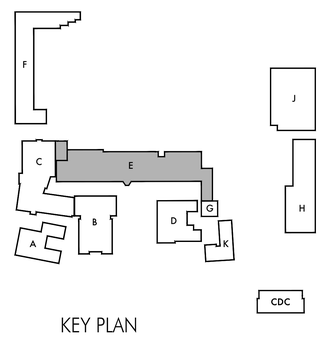
1 SECOND FLOOR MECHANICAL DEMOLITION PLAN - SEGMENT A

NORTH

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

KEYNOTES

1. REMOVE (E) GAS FURNACE UNITS, GAS PIPES, SUPPORTS, ENTIRE ASSOCIATED COMBUSTION AIR AND FLUE PIPES UP THRU ROOF WITHIN THE SCOPE OF WORK AREA. PATCH AND REPAIR EXISTING WALLS, CEILING, ROOF AS NEEDED.
2. REMOVE (E) DUCT TRANSITION & CAPPED FOR NEW SYSTEM.
3. REMOVE (E) MOTORIZED DAMPER. RECONNECT (E) DUCTWORK TO BE REUSED.



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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

Date: .....
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Checked By: RI

Architect / Engineer Stamp

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RICHARD M. INGRASSIA
NO. C-26229
REN. 2-28-21
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Consultants

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421 East Huntington Drive
Monrovia, California 91016
P: 626.930.1383 F: 626.930.1385
Project No. 19009

Sheet Title

Building 'E'
Second Floor
Mechanical Demo.
Plan Segment A

Sheet Number

MED202A

Plot Date: 11/15/2019 2:13:36 PM Last Save By: mzaw Login: Min Zaw H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MED202A.dwg

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KEYNOTES

1. REMOVE (E) GAS FURNACE UNITS, GAS PIPES, SUPPORTS, ENTIRE ASSOCIATED COMBUSTION AIR AND FLUE PIPES UP THRU ROOF WITHIN THE SCOPE OF WORK AREA. PATCH AND REPAIR EXISTING WALLS, CEILING, ROOF AS NEEDED.
2. REMOVE (E) DUCT TRANSITION & CAPPED FOR NEW SYSTEM.
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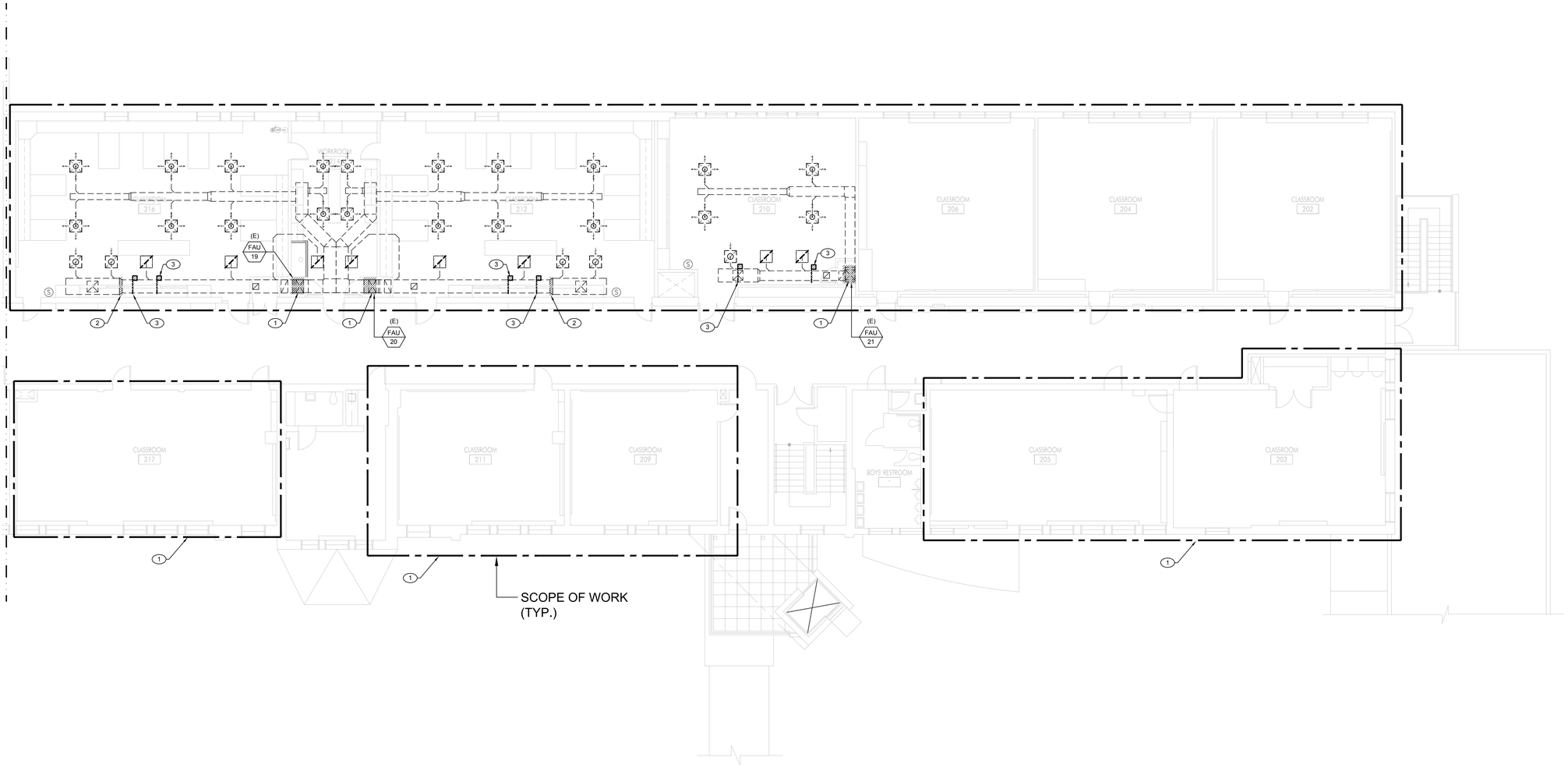
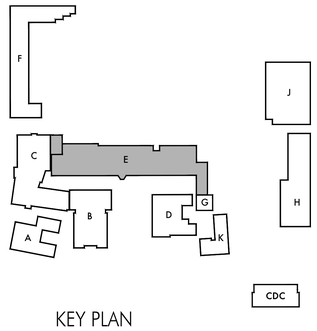


1 SECOND FLOOR MECHANICAL DEMOLITION PLAN - SEGMENT B

NORTH

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



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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Project No. 19009

Sheet Title

Building 'E'
Second Floor
Mechanical Demo.
Plan Segment B

Sheet Number

MED202B

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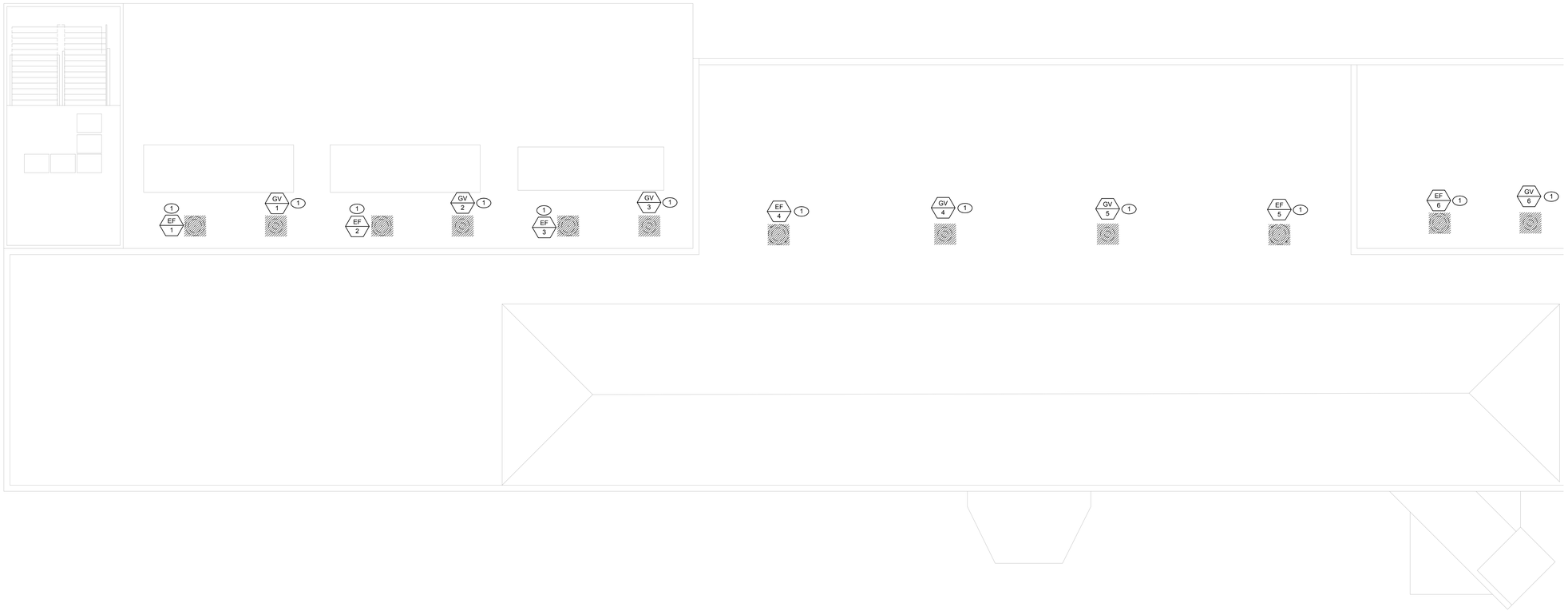
KEYNOTES

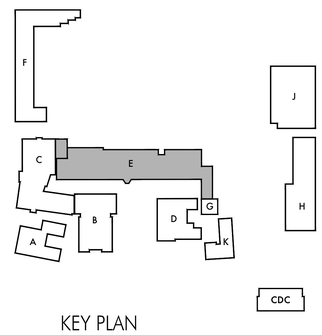
1 REMOVE (E) EQUIPMENT & PAD. (E) ROOF OPENING WILL BE USED FOR (N) EQUIPMENT. PATCH AND REPAIR EXISTING ROOF AS NEEDED.



NORTH

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

1 MECHANICAL ROOF PLAN - SEGMENT A



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Lincoln Middle School HVAC Replacement Project

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1501 California Avenue
Santa Monica, California 90403

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Project No. 19009

Sheet Title

Building 'E'
Roof Mechanical
Demolition Plan
Segment A

Sheet Number

MED203A

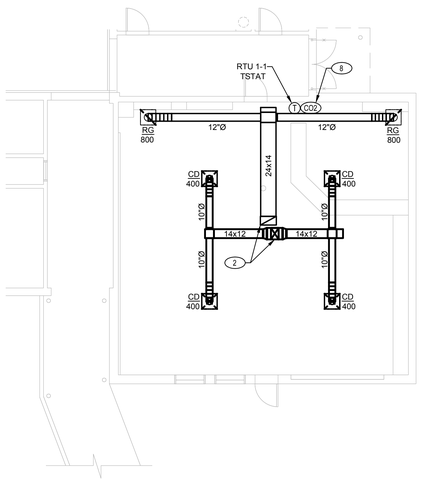
Plot Date: 11/15/2019 2:13:48 PM Last Save By: mzaw Login: Min Zaw H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MED203A.dwg

FLOOR REMODEL GENERAL NOTES

1. ALL MECHANICAL WORK NEED TO BE COORDINATED WITH ARCHITECTURAL PLANS AND ENSURE THCT ALL EQUIPMENT, DUCTWORK, AIR DEVICES, PIPING, ETC SHALL AVOID CONFLICT WITH ANY ARCHITECTURAL ITEMS INCLUDING BUT NOT LIMITED TO LIGHTS, SPEAKERS, SPRINKLERS, ETC AND ADJUST MECHANICAL WORK AND ITEMS AS NEEDED. SEE ARCH PLANS FOR ADDITIONAL SCOPE OF WORK THAT MAY NOT BE ADDRESSED OR SHOWN ON MECHANICAL PLANS.
2. SEE ARCHITECTURAL DRAWINGS INCLUDING REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS FOR FURTHER DIMENSIONS AND LOCATIONS OF ALL THERMOSTATS, DIFFUSERS, GRILLES, REGISTERS, ETC.
3. FOR CLASSROOMS, AND OTHER SPACES WITH NEW HVAC REPLACEMENT, CONTRACTOR TO COORDINATE WITH SCHOOL DISTRICT REPRESENTATIVE FOR THERMOSTAT TYPE AND CONNECTIVITY TO ALLOW FOR SCHEDULING AND UNIT CONTROL.
4. FOR INDIVIDUAL EQUIPMENT DETAIL REFERENCE, SEE EQUIPMENT SCHEDULES ON SHEET M002 THRU M007.

FLOOR REMODEL KEYNOTES

1. INTERLOCK CO2 SENSOR WITH RTU ECONOMIZER. SEE DETAIL 4/M7.1 FOR CONTROLS.
2. 25x11(L) RA & 18x14(L) SA DUCTS UP TO RTU. COORDINATE DUCT AND AIR DEVICE DISTRIBUTION WITH ARCHITECTURAL CEILING PLANS AND PROVIDE ADJUSTMENT TO AVOID CONFLICT WITH STRUCTURAL MEMBERS, LIGHTS, SPEAKERS, SPRINKLERS AND ANY OTHER ARCHITECTURAL FEATURES, ETC.
3. TSTAT AND RTU CONTROLS BY PELICAN CONTROLS. SEE _/M7.1 FOR CONTROL DETAIL.



1 MECHANICAL REMODEL PLAN

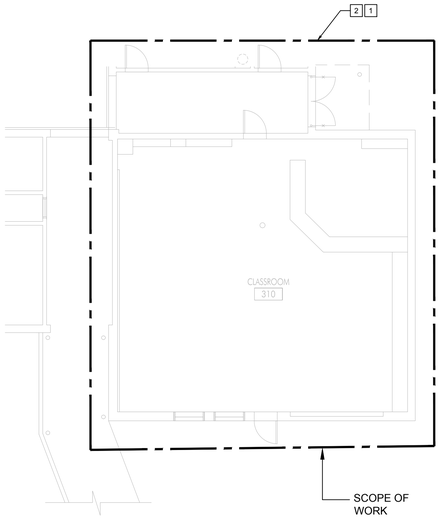
SCALE: 1/8"=1'-0"

FLOOR DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BID AND CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS AND BE THOROUGHLY FAMILIAR WITH THE DEMOLITION SCOPE OF WORK. HE SHALL FURNISH ALL LABORS, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO CARRY OUT THIS WORK AND SUBMIT ALL QUESTIONS IN WRITING PRIOR TO BID.
2. ANY EXISTING TO REMAIN EQUIPMENT AND DUCTWORK OUTSIDE OF DASHED LINES SCOPE OF WORK, SHALL BE REPAIRED, CLEANED AND PAINTED BY CONTRACTOR PER DISTRICT'S STANDARDS.
3. CONTRACTOR SHALL REPAIR, PATCH AND SEAL ALL UNUSED OR DAMAGED WALL AND ROOF OPENINGS/ PENETRATIONS TO BUILDING CAUSED BY DEMOLITION OF EQUIPMENT, PIPING, DUCTWORK, SUPPORTS, ETC.
4. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING REGISTERS, DUCTWORK AND RELATED APPURTENANCES SHOWN WITHIN DASHED LINES SCOPE OF WORK. THEY MUST NOT BE ABANDONED IN PLACE UNLESS NOTED OTHERWISE
5. ALL DAMAGED, BROKEN OR INOPERABLE AIR DEVICES OR DAMPERS SHALL BE REPLACED BY CONTRACTOR WITH NEW LIKE SIZED COMPONENTS OR AIR DEVICES. CONTRACTOR SHALL CONDUCT A THOROUGH FIELD INVESTIGATION TO VERIFY EXISTING CONDITIONS PRIOR TO BIDDING. SUBMIT ALL QUESTIONS IN WRITING PRIOR TO BID.
6. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND DEVICES SUCH THAT COMPONENTS WILL BE ACCESSIBLE FOR MAINTENANCE.
7. FIRE PROTECTION DURING DEMOLITION / CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2016 CBC, CHAPTER 33.

FLOOR DEMOLITION KEYNOTES

1. DEMOLISH AND REMOVE ALL EXISTING HVAC EQUIPMENT AS SHOWN WITHIN DASHED LINES SCOPE OF WORK, INCLUDING BUT NOT LIMITED TO ALL EXISTING HVAC EQUIPMENT, DUCTWORK, AIR DEVICES, PIPING, SUPPORT, CONDUITS AND ALL ASSOCIATED APPURTENANCES AND DISPOSED OF PER OWNER'S DIRECTION. CONTRACTOR SHALL REPAIR, PATCH AND PAINT ALL ROOF, WALL, CEILING, FLOOR INCLUDING ANY ASSOCIATED OPENINGS OR PENETRATIONS TO MATCH ADJACENT SURFACES PER ARCHITECTURAL DRAWINGS.
2. CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO PROVIDE A CLEAR AND OPERABLE AREA FOR FUTURE REMODEL WORK.



2 MECHANICAL DEMOLITION PLAN

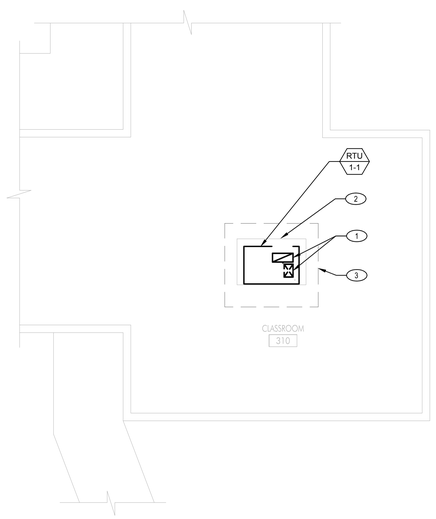
SCALE: 1/8"=1'-0"

ROOF REMODEL GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE REMODEL SCOPE OF WORK. HE SHALL FURNISH ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT AND FACILITIES NECESSARY TO CARRY THIS WORK.
2. ALL ROOFTOP EQUIPMENTS MUST BE INSTALLED AT LEAST 10 FEET AWAY FROM ANY PARAPET WALL.
3. SEE ARCHITECTURAL DRAWINGS INCLUDING REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS FOR FURTHER DIMENSIONS AND LOCATIONS OF ALL THERMOSTATS, DIFFUSERS, GRILLES, REGISTERS, ETC.
4. ALL EXPOSED DUCTWORK SHALL BE 26 GAUGE GALVANIZED STEEL WITH DOUBLE DUCT CONSTRUCTION PER SMACNA GUIDELINES.
5. FOR ALL NEW THERMOSTATS, PROVIDE ALL WIRING, CONDUITS, SUPPORT, FITTINGS, CONTROLS AND REQUIRED ACCESSORIES FOR CONNECTIONS BETWEEN TSTAT AND RESPECTIVE ROOFTOP PACKAGE UNIT.
6. FOR INDIVIDUAL EQUIPMENT DETAIL REFERENCE, SEE EQUIPMENT SCHEDULES ON SHEET M002 THRU M007.
7. MAINTAIN A MINIMUM OF 10'-0" CLEARANCE BETWEEN ANY EXHAUST OUTLET AND OUTSIDE AIR INTAKE INTO THE BUILDING.

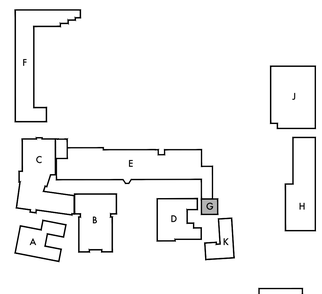
ROOF REMODEL KEYNOTES

1. 25x11(L) RA & 18x14(L) SA DUCTS CONNECTING TO/FROM RTU ON ROOF. COORDINATE DUCT ROUTING BETWEEN EXISTING ROOF FRAMING OR OPENINGS. SEE STRUCTURAL DRAWINGS FOR FRAMING OF OPENINGS.
2. RTU OSA INTAKE HOOD. MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OSA HOOD AND ANY EXHAUST FROM THE BUILDING. RELOCATE EQUIPMENT AS REQUIRED TO MEET THIS CODE REQUIRED CLEARANCE(S).
3. 3'-0" HVAC MANUFACTURER CLEARANCE ALL AROUND EACH RTU FOR EQUIPMENT MAINTENANCE AND ACCESS.
4. RTU MUST BE INSTALLED AT LEAST 10'-0" AWAY FROM PARAPET WALL.



E MECHANICAL ROOF PLAN

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



KEY PLAN

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Lincoln Middle School HVAC Replacement Project
Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Checked By: RI

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Project No. 19009

Sheet Title

Building 'G'
Mechanical Plans

Sheet Number

MG201

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DUCT CLEANING GENERAL NOTES

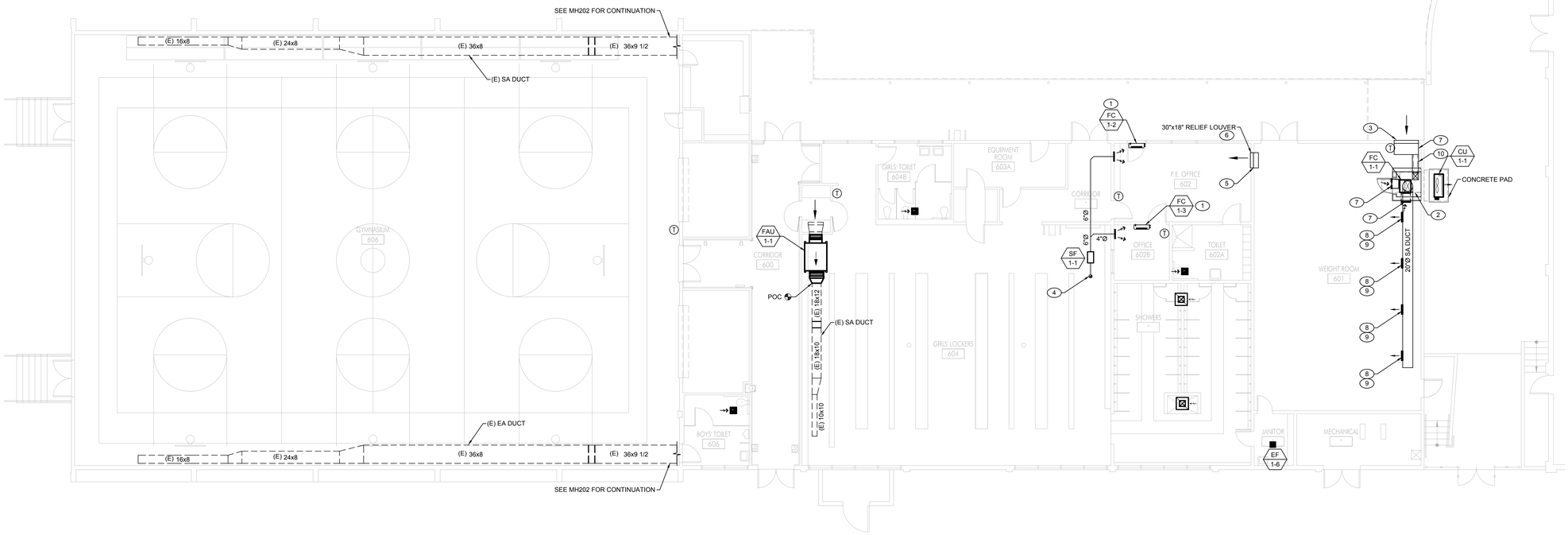
CLEANING ALL DUCT INTERIORS AS FOLLOW :

(1) CLEAN DUCT SYSTEM AND FORCE AIR AT HIGH VELOCITY THROUGH DUCT TO REMOVE ACCUMULATED DUST. TO OBTAIN SUFFICIENT AIR FLOW, CLEAN ONE HALF OF SYSTEM COMPLETELY BEFORE PROCEEDING TO OTHER HALF. PROTECT EQUIPMENT WITH POTENTIAL TO BE HARMED BY EXCESSIVE DIRT WITH TEMPORARY FILTERS, OR BYPASS DURING CLEANING.

(2) CLEAN DUCT SYSTEM WITH HIGH POWER VACUUM MACHINES. PROTECT EQUIPMENT WITH POTENTIAL TO BE HARMED BY EXCESSIVE DIRT WITH FILTERS, OR BYPASS DURING CLEANING. INSTALL ACCESS OPENING INTO DUCTWORK FOR CLEANING PURPOSES.

KEYNOTES

1. WALL MOUNTED FAN COIL UNIT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE LOCATION W/ ALL OTHER TRADES. ENSURE PROPER ACCESS SPACE FOR MAINTENANCE. FOR MOUNTING DETAIL SEE -/M-. RUN REFRIGERANT LINES TO CORRESPONDING CONDENSER UNIT PER MANUFACTURER RECOMMENDATION.
2. 3'-4"x3'-6" RETURN AIR PLENUM BELOW FAN COIL UNIT.
3. 48"x14" OSA INTAKE LOUVER.
4. 6"Ø OSA DUCT W/ 1" LINING UP THRU ROOF. PROVIDE ROOF JACK WITH WIRE MESH SCREEN.
5. REUSE PREVIOUS WALL OPENING FOR NEW LOUVER.
6. PROVIDE BAROMETRIC RELIEF AIR DAMPER. SET DAMPER TO OPEN AT 0.05" PRESSURE.
7. 48" (L) x 22" (W) x 14" (H) OSA PLENUM.
8. 18"x6" SAG 400 CFM (TYP 4.)
9. PRICE SDG MODEL WITH AIR SCOOP (AS), DOUBLE DEFLECTION. (TYP.)
10. 12"x10" OSA INTAKE DUCT W/ 1" LINING DN & CONNECT TO RETURN AIR PLENUM.



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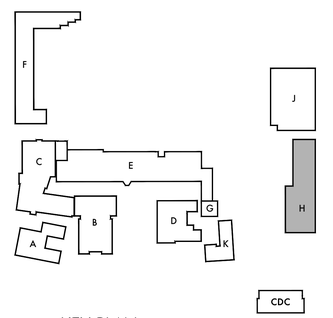
1 MECHANICAL PLAN



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Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Project No. 19009

Sheet Title

Building 'H'
Mechanical Plan

Sheet Number

MH201

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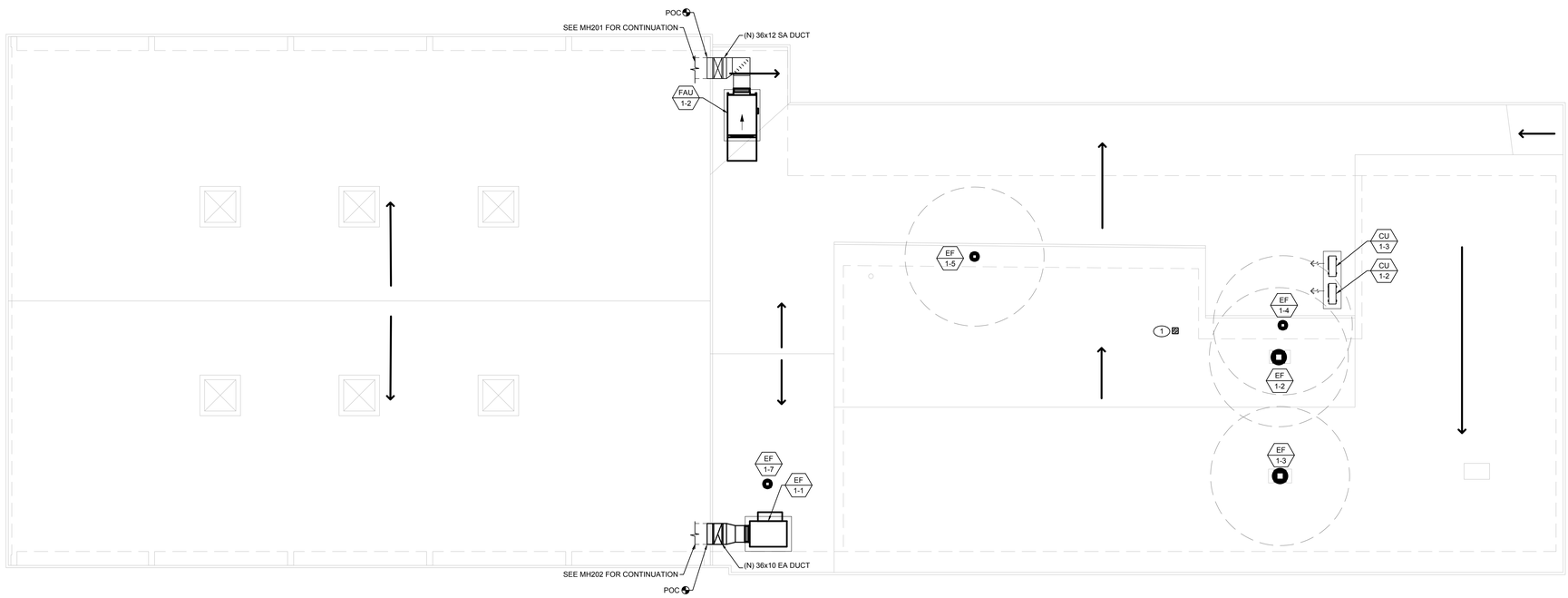
KEYNOTES

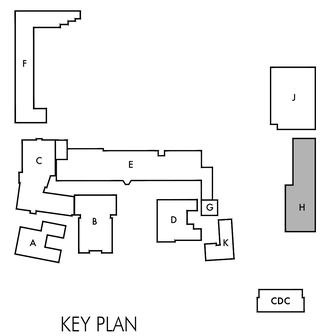
1. 10"Ø OSA DUCT W/ 1" LINING DN THRU ROOF. PROVIDE ROOF JACK WITH WIRE MESH SCREEN.



1 MECHANICAL ROOF PLAN

NORTH

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



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Project No. 19009

Sheet Title

Building 'H' Mechanical Roof Plan

Sheet Number

MH202

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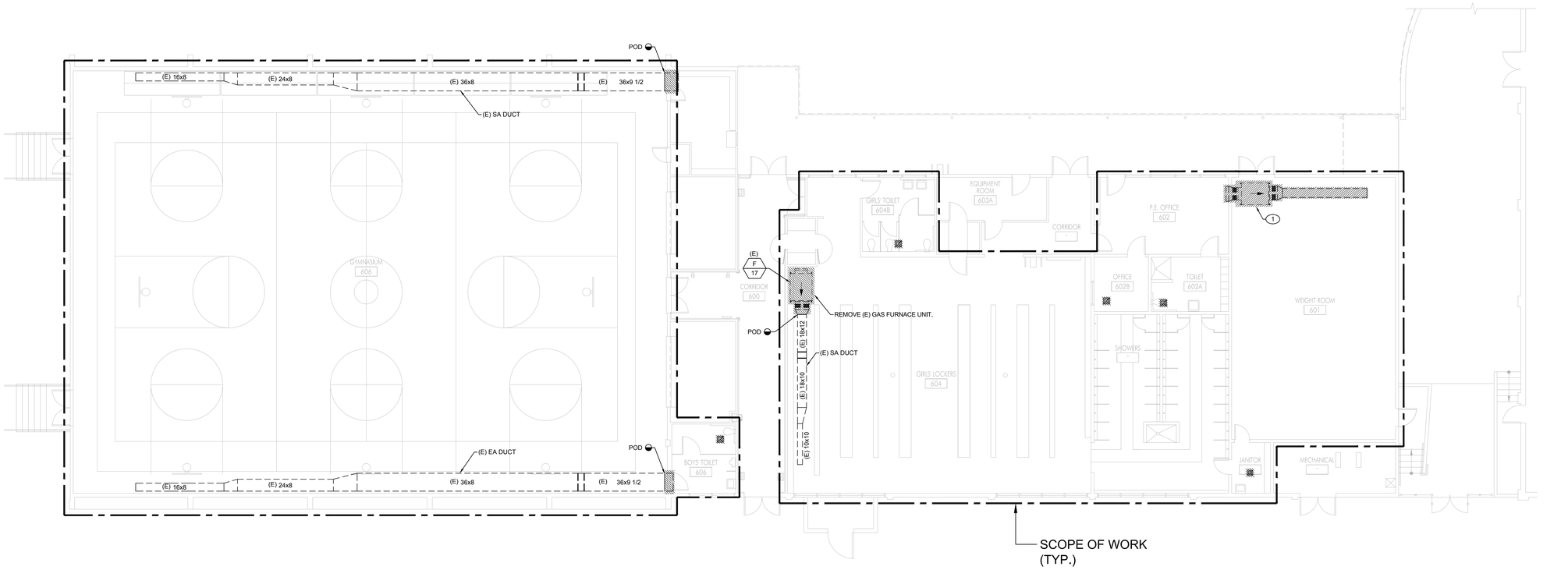
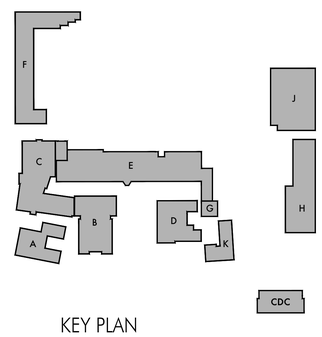
KEYNOTES

1. REMOVE (E) GAS FURNACE UNITS, DUCTWORK, GAS PIPES, SUPPORTS, ENTIRE ASSOCIATED COMBUSTION AIR, OSA INTAKE LOUVER AND FLUE PIPES UP THRU ROOF. PATCH AND REPAIR EXISTING WALLS, CEILING, ROOF AS NEEDED.



1 MECHANICAL DEMOLITION PLAN

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



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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

Date: .....
Scale: As Shown
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Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. INSPERGO
NO. C-26229
REN. 2-25-21
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Consultants

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Project No. 19009

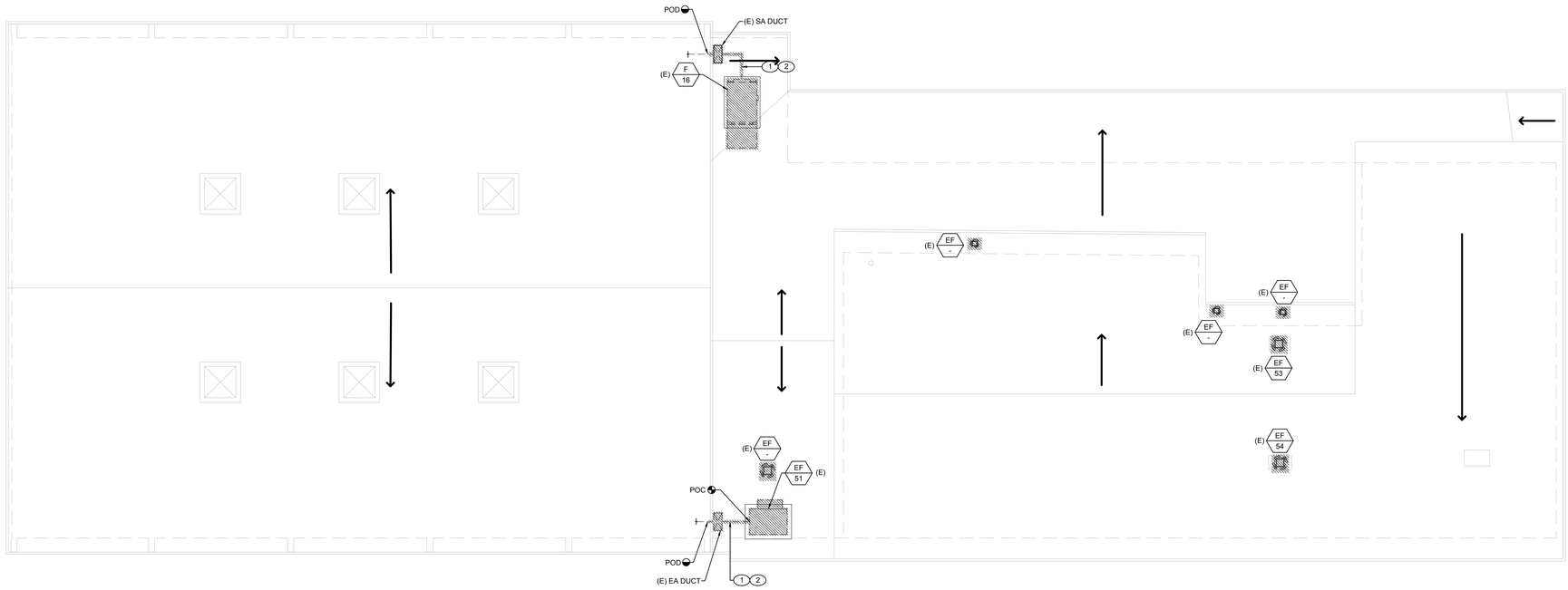
Sheet Title

Building 'H'
Mechanical
Demolition Plan

Sheet Number

MHD201

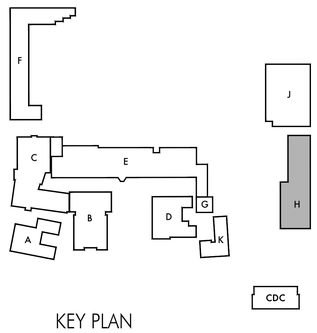
Plot Date: 11/15/2019 2:14:10 PM Last Save By: maxw Login: Min Zaw- H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MHD201.dwg



1 MECHANICAL ROOF DEMOLITION PLAN

NORTH

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



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Project No. 19009

Sheet Title

Building 'H'
Mechanical Roof
Demolition Plan

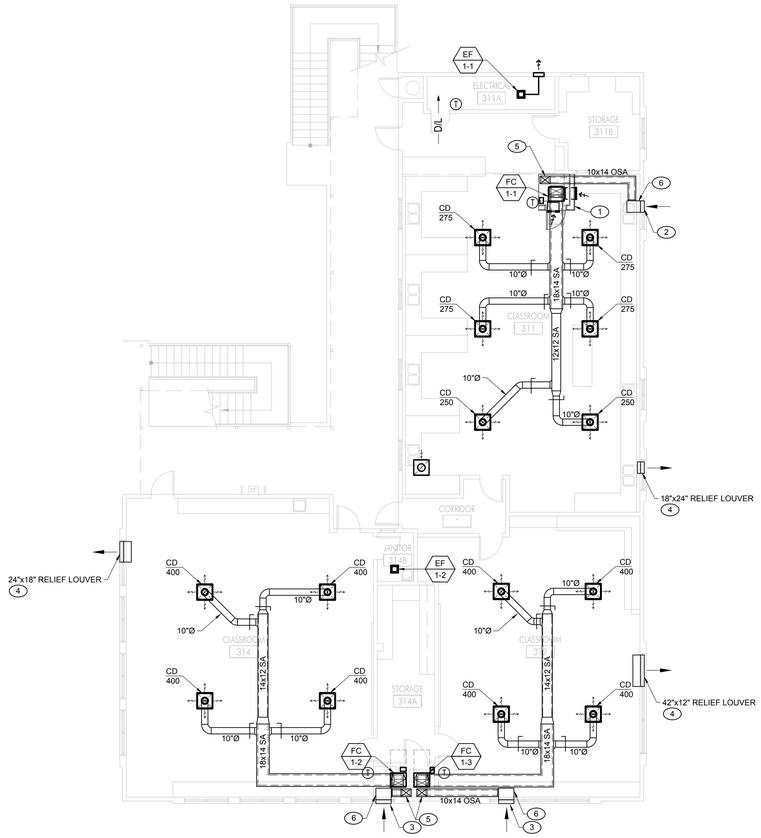
Sheet Number

MHD202

Plot Date: 11/15/2019 2:14:14 PM Last Save By: mzaw Login: Min Zaw- H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MHD202.dwg

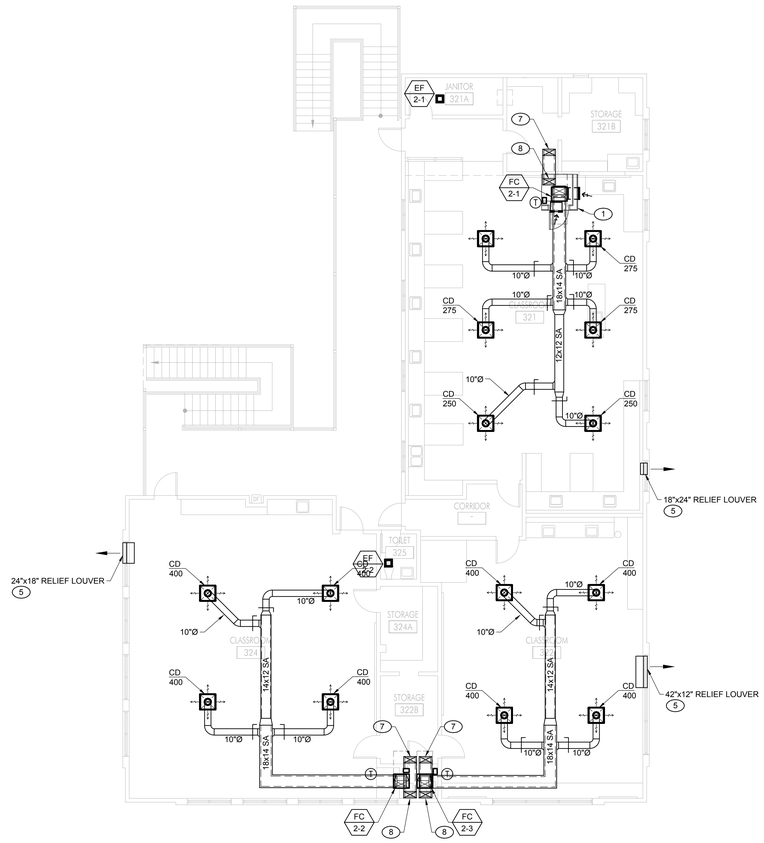
KEYNOTES

1. NEW FAN COIL UNIT CLOSET, REFER TO ARCHITECTURAL DRAWING. MIN. 4'-0"x4'-0" CLEAR INSIDE DIMENSION.
2. 18"x24" OSA INTAKE LOUVER.
3. 24"x18" OSA INTAKE LOUVER.
4. PROVIDE BAROMETRIC RELIEF AIR DAMPER. SET DAMPER TO OPEN AT 0.05" PRESSURE.
5. 14"x10" OSA INTAKE DUCT W/ 1" LINING DN & CONNECT TO RETURN AIR PLENUM.
6. 14" (L) x 18" (W) x 24" (H) OSA PLENUM.
7. 18"x8" MAKE-UP AIR DUCT UP THRU ROOF.
8. 18"x8" OSA INTAKE DUCT W/ 1" LINING DN & CONNECT TO RETURN AIR PLENUM.
9. 3'-4"x3'-6" RETURN AIR PLENUM BELOW FAN COIL UNIT.



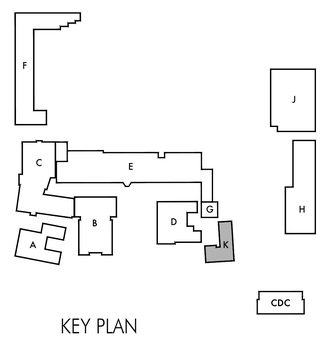
1 FIRST FLOOR MECHANICAL PLAN

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



2 SECOND FLOOR MECHANICAL PLAN

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



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Sheet Title

Building 'K'
Mechanical Plans

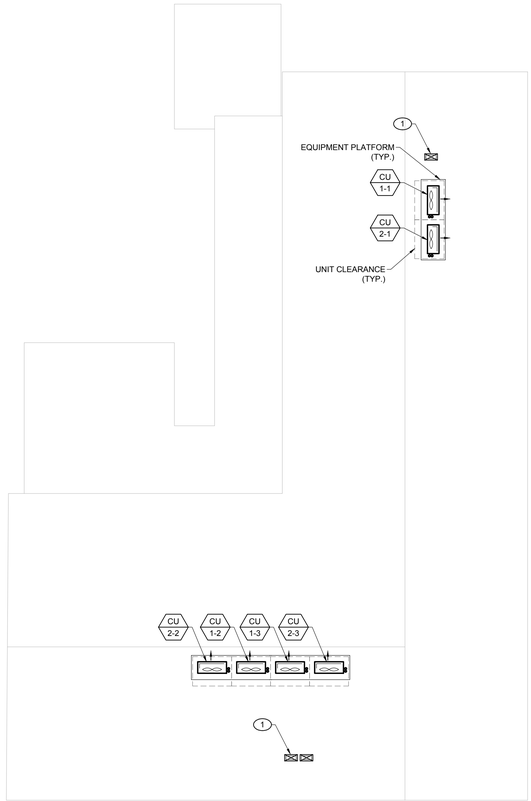
Sheet Number

MK201

Plot Date: 11/15/2019 2:14:20 PM Last Save By: szalvadoszantali Login: Max Zaw H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Mechanical\19009_MK201.dwg

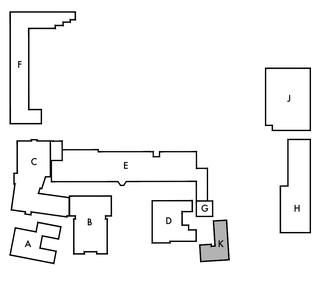
KEYNOTES

(1) - 12"x10" OSA DUCT W/ 1" LINING DN THRU ROOF, OFFSET DUCT & CONNECT TO RETURN AIR PLENUM. PROVIDE ROOF JACK WITH WIRE MESH SCREEN.



1 MECHANICAL ROOF PLAN

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



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Sheet Title

Building 'K'
Mechanical
Roof Plan

Sheet Number

MK202

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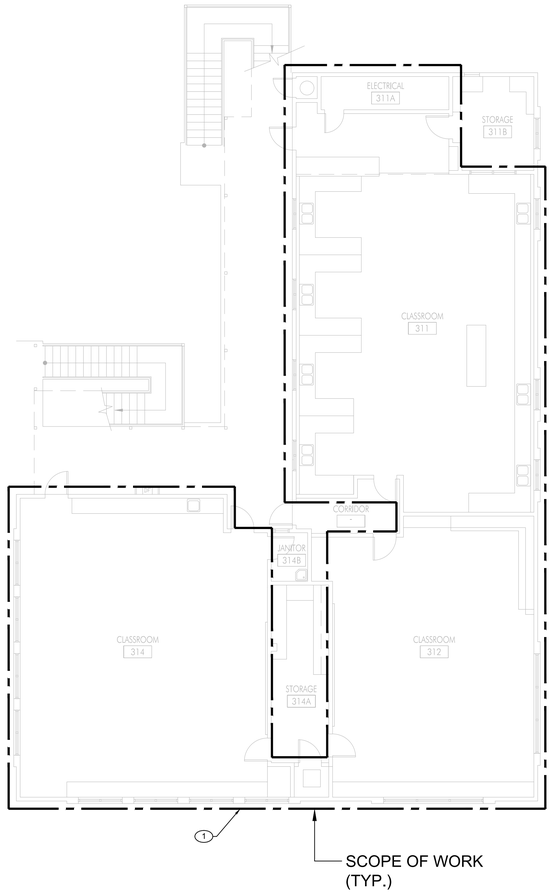
KEYNOTES

1. REMOVE (E) HEATING AND VENTILATION SYSTEM, DUCTWORK, PIPING SUPPORTS, THERMOSTAT, CONTROL AND ACCESSORIES WITHIN THE SCOPE OF WORK AREA UNLESS OTHERWISE NOTED. PATCH AND REPAIR EXISTING WALLS, CEILING, FLOOR AS NEEDED.



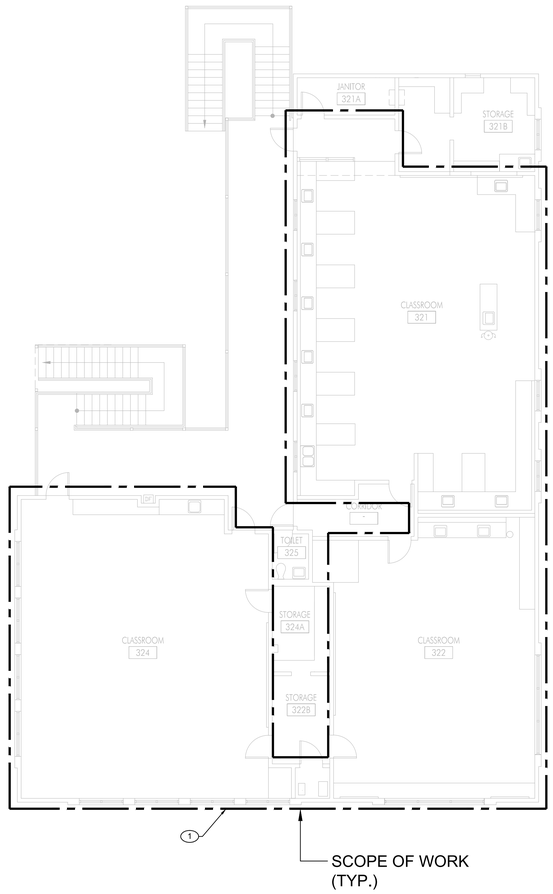
NORTH

1 FIRST FLOOR MECHANICAL DEMOLITION PLAN

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

KEYNOTES

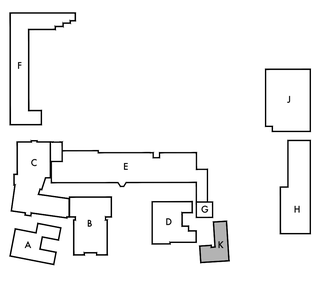
1. REMOVE (E) HEATING AND VENTILATION SYSTEM, DUCTWORK, PIPING SUPPORTS, THERMOSTAT, CONTROL AND ACCESSORIES WITHIN THE SCOPE OF WORK AREA UNLESS OTHERWISE NOTED. PATCH AND REPAIR EXISTING WALLS, CEILING, FLOOR AS NEEDED.



NORTH

2 SECOND FLOOR MECHANICAL DEMOLITION PLAN

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



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Sheet Title

Building 'K'
Mechanical
Demolition Plans

Sheet Number

MKD201

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PLUMBING GENERAL NOTES

1. PRIOR TO THE BID THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, ELEVATIONS, POINTS OF CONNECTIONS AND CHARACTERISTICS OF ALL UTILITY PIPING AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM THE ARCHITECTURAL DRAWINGS.
3. SEE ARCHITECTURAL DRAWINGS FOR ALL DISABLED ACCESS FIXTURE LOCATIONS AND MOUNTING HEIGHTS. INSULATE ALL EXPOSED EDGES, INCLUDING WATER SUPPLY PIPING, LOOSE KEY STOPS, AND DRAIN PIPING BELOW DISABLED ACCESS FIXTURES. ALL DESIGNATED FIXTURES SHALL BE ACCESSIBLE TO INDIVIDUALS WITH DISABILITIES IN ACCORDANCE WITH THE "AMERICANS WITH DISABILITIES ACT OF 2016 – FIXTURES AND THEIR INSTALLATION ANSI A117.1".
4. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID INTERFERENCE WITH OTHER TRADES.
5. CLEANOUTS SHALL BE PROVIDED AS REQUIRED BY CODE AND SHALL BE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL LOCATIONS WITH EQUIPMENT, CABINETS, ETC., WITH THE ARCHITECT PRIOR TO ANY INSTALLATION. ALL CLEANOUTS SHALL BE SIZED PER CODE.
6. EQUIPMENT ANCHORAGE DETAILS FOR EQUIPMENT ARE SUBJECT TO APPROVAL OF THE DSA STRUCTURAL ENGINEER PRIOR TO INSTALLATION AND INSPECTION, UNLESS SPECIFICALLY SHOWN ON THESE PLANS. NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
7. ALL PLUMBING FIXTURES, EQUIPMENT, TRIM AND FITTING SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO WATER AND ENERGY CONSERVATION CODES. THE SCHEDULED AND/ OR SPECIFIED PLUMBING FIXTURES AND EQUIPMENT REPRESENT THE MINIMUM CRITERIA AND SHALL BE THE BASIS FOR THE CONTRACTOR'S BASE BID.
8. ALL WASTE PIPING SHALL SLOPE AT 2% MINIMUM UNLESS OTHERWISE INDICATED OR REQUIRED DUE TO STRUCTURAL CONDITIONS.
9. PROVIDE DIELECTRIC ISOLATION FITTINGS AT POINT OF CONNECTION OF ALL COPPER TUBING AND ANY DISSIMILAR METALS.
10. ALL NEW PIPING, INCLUDING WATER, WASTE, AND GAS, SHALL BE TESTED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.
11. ALL HOT WATER PIPING SHALL BE INSULATED WITH MINIMUM THERMAL RESISTANCE OF R=4.0 PER INCH. THE INSULATION SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND SMOKE DEVELOPED RATING OF NOT MORE THAN 50, TYPE AND THICKNESS PER SPECIFICATIONS.
12. PROVIDE LOOSE CHROME PLATED KEY STOPS AT ALL FIXTURES.
13. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN TEN (10) FEET FROM OR THREE (3) FEET ABOVE ANY WINDOW, DOOR, AIR INTAKE, OR VENT SHAFT, AND SHALL HAVE A VANDAL RESISTANT VENT CAP.
14. ALL HOSE BIBBS HAVE A NON–REMOVABLE VACUUM BREAKER.
15. CONTRACTOR SHALL PAY ALL FEES REQUIRED TO COMPLETELY INSTALL ALL EQUIPMENT, MATERIALS AND PIPING INDICATED IN CONTRACT DRAWINGS.
16. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL EXPOSED PIPING ON ROOF WITH ALL EQUIPMENT, CRICKETS AND RIDGE LINES AS SHOWN ON MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS.
17. CONTRACTOR SHALL PROVIDE WATER HAMMERS, THREADED OR SOLDERED, UPSTREAM OF LAST FIXTURE ON HW & CW SUPPLY PIPING, PER PDI & TD WH–201 STANDARD.
18. ALL BURRED ENDS OF WATER PIPING AND TUBING SHALL BE REAMED TO THE FULL BORE OF THE PIPE OR TUBE AND ALL CHIPS SHALL BE REMOVED (SEE CALIFORNIA PLUMBING CODE, 2016 EDITION, SECTION 310.3, ADDITIONALLY TOOLS USED IN CUTTING OR REAMING SHALL BE KEPT FREE FROM OIL OR GREASE AND WHERE SUCH CONTAMINATION HAS OCCURRED, THE ITEMS AFFECTED SHALL BE REWORKED AND RINSED.
19. FOR PIPE PENETRATIONS THROUGH FIRE RATED FLOOR, WALL, AND PARTITIONS, PROVIDE FIRE STOP DEVICES AND PACKING IN COMPLIANCE WITH U.L. FIRE RESISTANCE DIRECTORY FORTHROUGH – PENETRATION FIRE STOP DEVICES (XHCR), SYSTEMS WL1001, WL1002, WL5001, WL5002 OR CAJ1001, CAJ5001, CAJ5002, CAJ5003 AS APPLICABLE.
20. SEAL ALL PENETRATIONS THROUGH FIRE RESISTIVE CONSTRUCTION WITH APPROVED MATERIALS PER SECTION 714, CBC.
21. PER CODE ALL LAVATORIES, SINKS SHALL HAVE WALL CLEAN–OUTS, URINALS SHALL HAVE WALL CLEAN–OUTS ABOVE THE FLUSH VALVES.
23. CONTRACTOR SHALL COMPLY WITH LOW–LEAD ORDINANCE AB–1953.
24. COORDINATE ACCESS PANEL LOCATIONS WITH ARCHITECTURAL DWG'S.
25. ALL PLUMBING FIXTURES & PLUMBING FITTINGS SHALL COMPLY WITH MAXIMUM FLOW RATE VALUES OF SECTION 5.303.2. AND SECTION 5.303.3. OF CALIFORNIA GREEN BUILDING CODE.
26. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE CALIFORNIA PLUMBING CODE.

SEISMIC BRACING OF PLUMBING SYSTEMS

1. GENERAL CONTRACTOR SHALL ENGINEER, PROVIDE AND INSTALL GRAVITY SUPPORTS (HANGERS, STANDS, ETC.) AND SEISMIC RESTRAINTS (CABLE BRACING, ANGLE BRACING, ETC.) INCLUDING THEIR CONNECTIONS TO THE STRUCTURE, FOR ALL EQUIPMENT AND DISTRIBUTION SYSTEMS (PIPING, DUCTWORK, CONDUIT, ETC.) WHERE SUCH SUPPORTS AND BRACING ARE NOT COVERED IN THE STRUCTURAL DRAWINGS FOR THE PROJECT. GRAVITY SUPPORTS AND SEISMIC RESTRAINTS SHALL MEET THE REQUIREMENTS SET FORTH IN THE 2016 CALIFORNIA BUILDING CODE, IT'S REFERENCE STANDARD ASCE 7–10 (CHAPTER 13), AND ALL OTHER APPLICABLE CODES.
2. GENERAL CONTRACTOR SHALL SUBMIT THE ENGINEERED DESIGN OF THE SEISMIC RESTRAINTS, STAMPED AND SIGNED BY A CALIFORNIA LICENSED CIVIL OR STRUCTURAL ENGINEER, TO THE AHJ REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
3. SEISMIC BRACING SHALL CONSISTS OF ENGINEERED SYSTEMS (SUCH AS ISAT, TOLCO, OR ERICO) CARRYING AN OSHPD OPM CERTIFICATION UNDER THE 2013–CBC OR 2016–CBC.
4. GRAVITY SUPPORTS AND SEISMIC RESTRAINTS SHALL BE LAID OUT AS TO AVOID INDUCING TORSION ON STRUCTURAL STEEL MEMBERS.
5. SHOP DRAWINGS SHOWING ALL BRACING LOCATIONS AND DETAILS OF CONNECTIONS ARE REQUIRED FOR ALL SYSTEMS.

APPLICABLE CODES

2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.

2016 CALIFORNIA BUILDING CODE, PART 2, TITLE 24 C.C.R. (2015 INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 C.C.R. (2015 NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS)

2016 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 C.C.R. (2015 UNIFORM MECHANICAL CODE WITH CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 C.C.R. (2014 UNIFORM PLUMBING CODE WITH CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.

2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2014 INTERNATIONAL FIRE CODE

2016 CALIFORNIA GREEN BUILDING STANDARD CODE, TITLE 24, PART II

2016 NFPA 13 – INSTALLATIONS OF FIRE SPRINKLER SYSTEMS

2016 CALIFORNIA REFERENCE STANDARDS CODE, PART 12, TITLE 24 C.C.R.

PLUMBING LEGEND

SYMBOL	ABBREV	DESCRIPTION
—S/W—	S OR W	SEWER OR WASTE BEL. FLR. OR GRD.
—S/W—	S OR W	SEWER OR WASTE ABV. FLR. OR GRD.
—V—	V	VENT LINE
—SD—	SD	STORM DRAIN ABV. FLR. OR GRD.
—SD—	SD	STORM DRAIN BEL. FLR. OR GRD.
—OD—	OD	OVERFLOW DRAIN ABV. FLR. OR GROUND
—OD—	OD	OVERFLOW DRAIN BEL. FLR. OR GROUND
—PCD—	PCD	PUMP CONDENSATE DRAIN
—CD—	CD	CONDENSATE DRAIN
—CW—	CW	COLD WATER
—HW—	HW	HOT WATER
—HWR—	HWR	HOT WATER RETURN
—MPG—	MPG	MEDIUM PRESSURE GAS (5 PSIG)
—G—	G	GAS LINE (7" W.C)
—TP—	TP	TRAP PRIMER LINE
—(E)S/W—	(E)S OR W	EXISTING SEWER OR WASTE BEL. FLR. OR GRD.
—(E)S/W—	(E)S OR W	EXISTING SEWER OR WASTE ABV. FLR. OR GRD.
—(E)V—	(E)V	EXISTING VENT LINE
—(E)CW—	(E)CW	EXISTING COLD WATER
—(E)HW—	(E)HW	EXISTING HOT WATER
	FD	FLOOR DRAIN
	FS	FLOOR SINK (HALF–GRATE)
	–	PIPE UP
	–	PIPE DOWN
	COYB	CLEANOUT IN YARD BOX
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT BEHIND ACCESS PANEL
	IWR	INDIRECT WASTE RECEPTOR
	CO	CLEANOUT
	TP	TRAP PRIMER
	SOVYB	SHUT–OFF VALVE IN YARD BOX (BALL TYPE)
	SOV	SHUT–OFF VALVE (BALL TYPE)
	SOV	SHUT–OFF VALVE (BUTTERFLY TYPE)
	HB	HOSE BIBB
	GV	GAS VALVE
	GPR	GAS PRESSURE REGULATOR
	U	UNION
	CV	CHECK VALVE
	PG	PRESSURE/VACUUM GAUGE
	TH	THERMOMETER
	–	DIRECTION OF FLOW IN LINE
	–	CAP OR PLUG
	–	KEYNOTE
	–	REFERENCE DETAIL
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECT
	–	EXSITING FIXTURE OR EQUIPMENT TO BE REMOVED
		EXISTING PIPING TO BE REMOVED

PIPE MATERIAL SCHEDULE

PIPE	ABOVE GRADE	BELOW GRADE	REMARKS
SANITARY SOIL, WASTE & VENT, STORM & OVERFLOW DRAINAGE	NO–HUB CAST IRON & COUPLINGS WITH STAINLESS STEEL BAND FITTINGS	NO–HUB CAST IRON W/ HEAVY DUTY M.G. COUPLINGS	WRAP ALL BURIED CAST IRON PIPING W/ 8 MIL THICK LAYER OF POLYETHYLENE PLASTIC WHERE IN CONTACT W/ CORROSIVE SOIL.
DOMESTIC WATER	TYPE "L" COPPER W/WROUGHT COPPER SOLDERED JOINT FITTINGS	TYPE "K" COPPER W/WROUGHT COPPER BRAZED JOINT FITTINGS	PROVIDE FIBERGLASS INSULATION ON HW PIPING
CONDENSATE DRAIN	TYPE "M" COPPER TUBE W/ WROUGHT COPPER SOLDER JOINT FITTINGS	N/A	PROVIDE ARMAFLEX 1" THICK INSULATION

ABBREVIATIONS

@	AT
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECT/ARCHITECTURAL
BEH	BEHIND
BEL	BELOW
BLDG	BUILDING
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONC	CONCRETE
CONN	CONNECT/CONNECTION
CONT	CONTINUED/CONTINUATION
DIA (ø)	DIAMETER
DN	DOWN
DWG(S)	DRAWING(S)
E/EX	EXISTING
EA	EACH
EQUIP	EQUIPMENT
FFE	FINISHED FLOOR ELEVATION
FCO	FLOOR CLEAN–OUT
FCU	FAN COIL UNIT
FIN	FINISH
FLR	FLOOR
FR	FROM
FTG(S)	FITTING(S)
GAL	GALLONS
CO	CLEAN–OUT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRD	GRADE OR GROUND
GPF	GALLONS PER FLUSH
HDR	HEADER
HP	HORSE POWER
HTR	HEATER
IE	INVERT ELEVATION
IW	INDIRECT WASTE
LPG	LOW PRESSURE GAS
MAX	MAXIMUM
MECH.	MECHANICAL
MIN	MINIMUM
PCD	PUMPED CONDENSATE DRAIN
PP	POLYPROPYLENE
PRESS	PRESSURE
P.S.I	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R.I. & C	ROUGH–IN & CONNECT
SHT	SHEET
TEMP	TEMPERATURE
THRU	THROUGH
TYP	TYPICAL
UL	UNDERWRITERS' LABORATORIES
VTR	VENT THRU ROOF
W/	WITH
WCO	WALL CLEAN–OUT
WHA	WATER HAMMER ARRESTOR

PLUMBING SHEET INDEX

P001	PLUMBING GENERAL NOTES, LEGEND & ABBREVIATIONS AND SHEET INDEX
PA201	BLDG. "A" – FIRST FLOOR PLUMBING PLANS
PB201	BLDG. "B" – FIRST FLOOR PLUMBING PLANS
PB202	BLDG. "B" – MEZZANINE LEVEL PLUMBING PLANS
PC202	BLDG. "C" – SECOND FLOOR PLUMBING PLAN
PC203	BLDG. "C" – PLUMBING ROOF PLAN
PCDC201	BLDG. "CDC" – FIRST FLOOR PLUMBING PLAN
PD201	BLDG. "D" – FIRST FLOOR PLUMBING PLANS
PD202	BLDG. "D" – PLUMBING ROOF PLAN
PE201A	BLDG. "E" – FIRST FLOOR PLUMBING PLAN – SEGMENT A
PE201B	BLDG. "E" – FIRST FLOOR PLUMBING PLAN – SEGMENT B
PE202A	BLDG. "E" – SECOND FLOOR PLUMBING PLAN – SEGMENT A
PE202B	BLDG. "E" – SECOND FLOOR PLUMBING PLAN – SEGMENT B
PG201	BLDG. "G" – PLUMBING FIRST FLOOR AND ROOF PLANS
PH201	BLDG. "H" – FIRST FLOOR PLUMBING PLANS
PH202	BLDG. "H" – PLUMBING ROOF PLAN
P601	PLUMBING DETAILS
P602	PLUMBING DETAILS

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Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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LICENSED ARCHITECT
RICHARD M. INSPERGO
NO. C-26229
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Project No. 19009

Sheet Title

Plumbing
Cover Sheet

Sheet Number

P001

Plot Date: 11/15/2019 2:29:15 PM Last Save By: rmanolastas Login: Raul Manolastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_P001.dwg

MISCELLANEOUS EQUIPMENT & DEVICE SCHEDULE

TAG	DESCRIPTION	LOCATION	SERVICE	MANUFACTURER & MODEL NO.	REMARKS
IWR 1	INDIRECT WASTE ROOF RECEPTOR	CHILLER PAD	WASTE	J. R. SMITH #3960Y-R-UDC-T	3" NO HUB OUTLET, CAST IRON RECEPTOR W/SOILD WATER DAM AND CAST IRON DOME BOTTOM STRAINER & STAINLESS STEEL VANDAL PROOF SCREWS.

BACKFLOW PREVENTER SCHEDULE

TAG	LOCATION	SERVICE	MANUFACTURER & MODEL NO.	SIZE	CAPACITY		REMARKS
					GPM	PSI LOSS	
BFP 1	VARIOUS	INDUSTRIAL COLD WATER	WATTS #C-009M3QT	3/4"	3	17	REDUCED PRESSURE PRINCIPLE ASSEMBLY WITH STRAINER, BALL VALVES & AIR GAP FITTING 909AG-A.

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Sheet Title
Plumbing Schedules

Sheet Number
P002

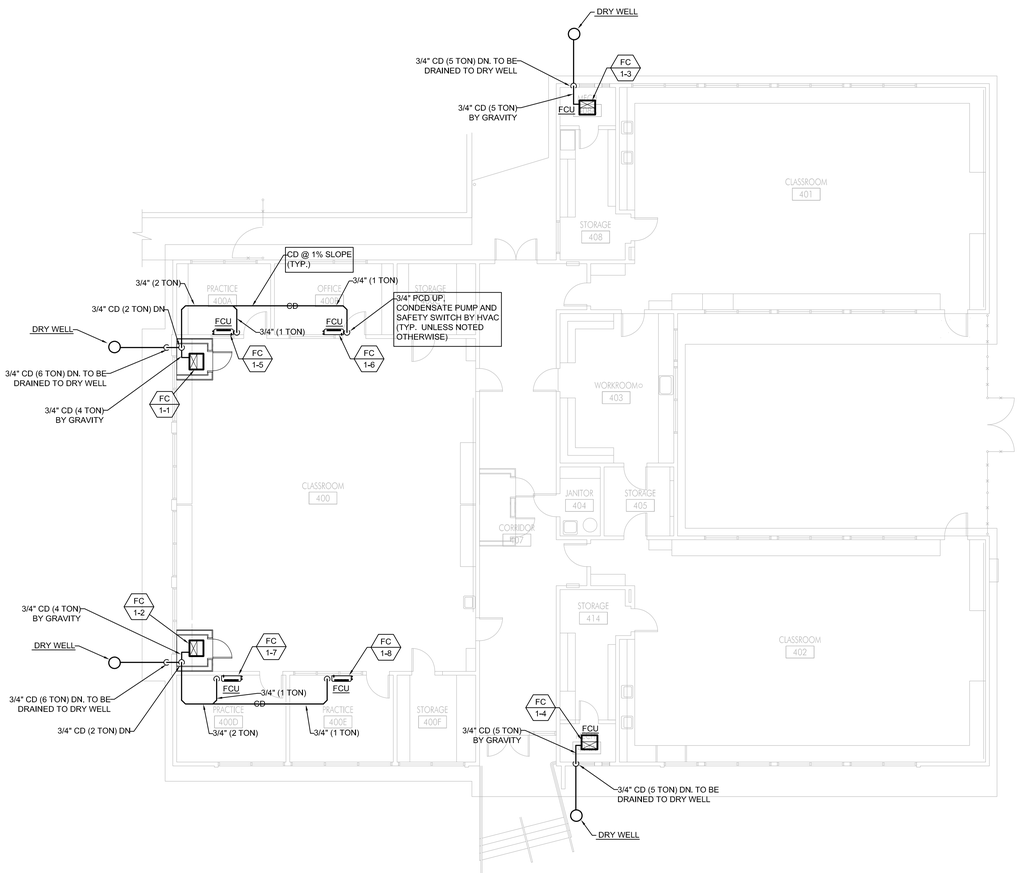
Plot Date: 11/15/2019 2:31:21 PM Last Save By: manolastas Login: Raul Manolastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_P002.dwg

LEGEND

FC #	DENOTES MECHANICAL FANCOIL UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.

KEYNOTES

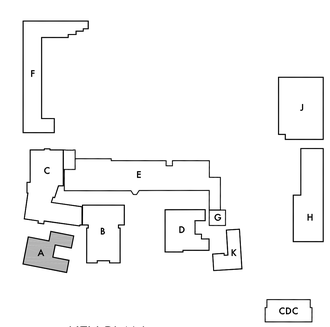
1 XX-XX



1 PLUMBING PLAN

NORTH

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



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Project No. 19009

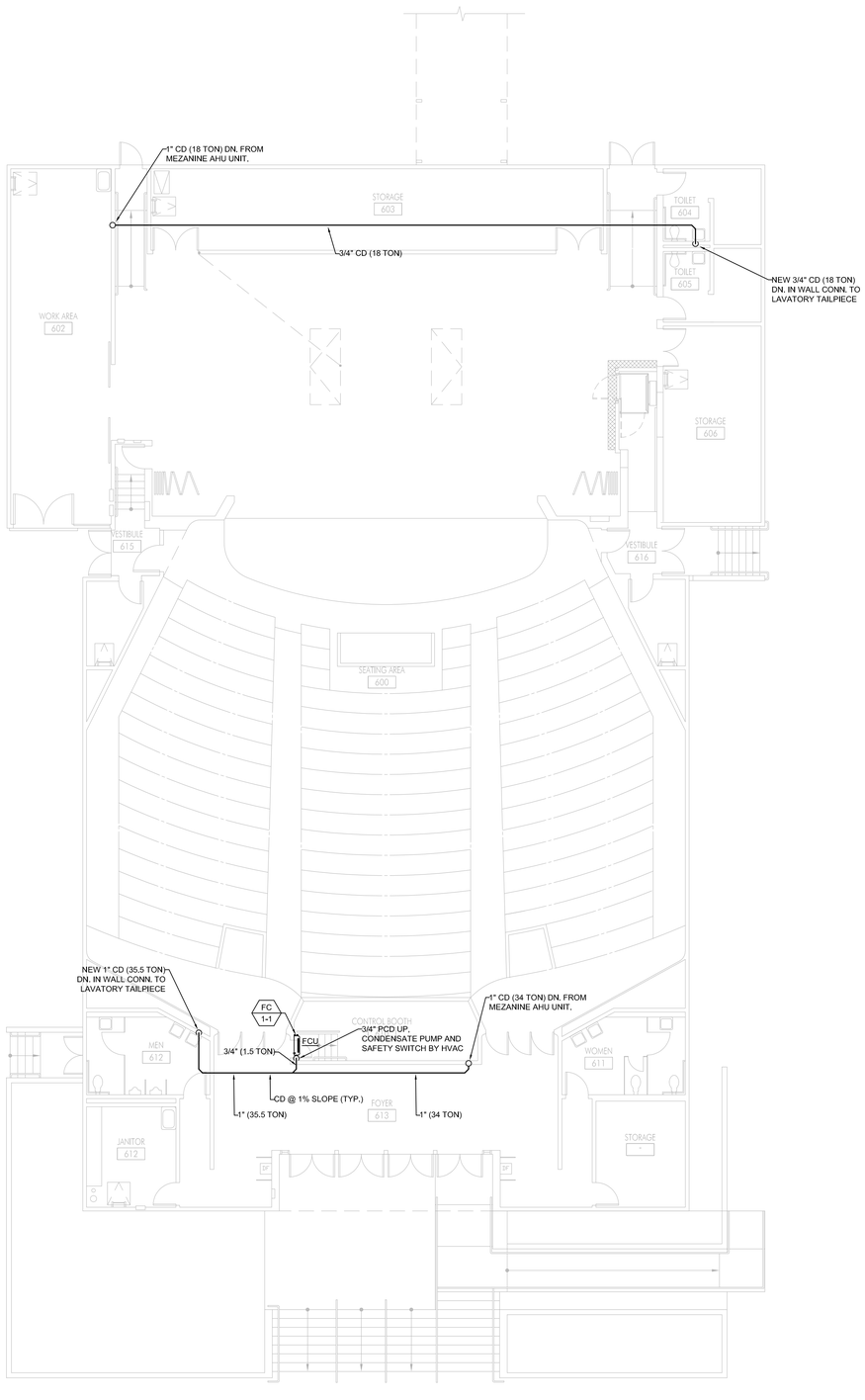
Sheet Title

Building 'A'
First Floor
Plumbing Plan

Sheet Number

PA201

Plot Date: 11/15/2019 2:36:15 PM Last Save By: rmanolastas Login: Raul Manolastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_PA201.dwg



1 PLUMBING PLAN

NORTH

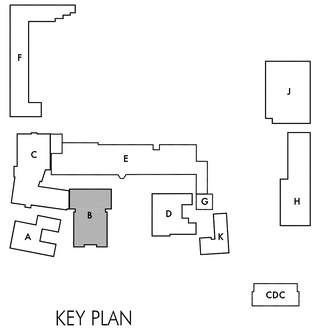
SCALE: 1/8"=1'-0"

KEYNOTES

1 XX-XX

LEGEND

FC #	DENOTES MECHANICAL FANCOIL UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.



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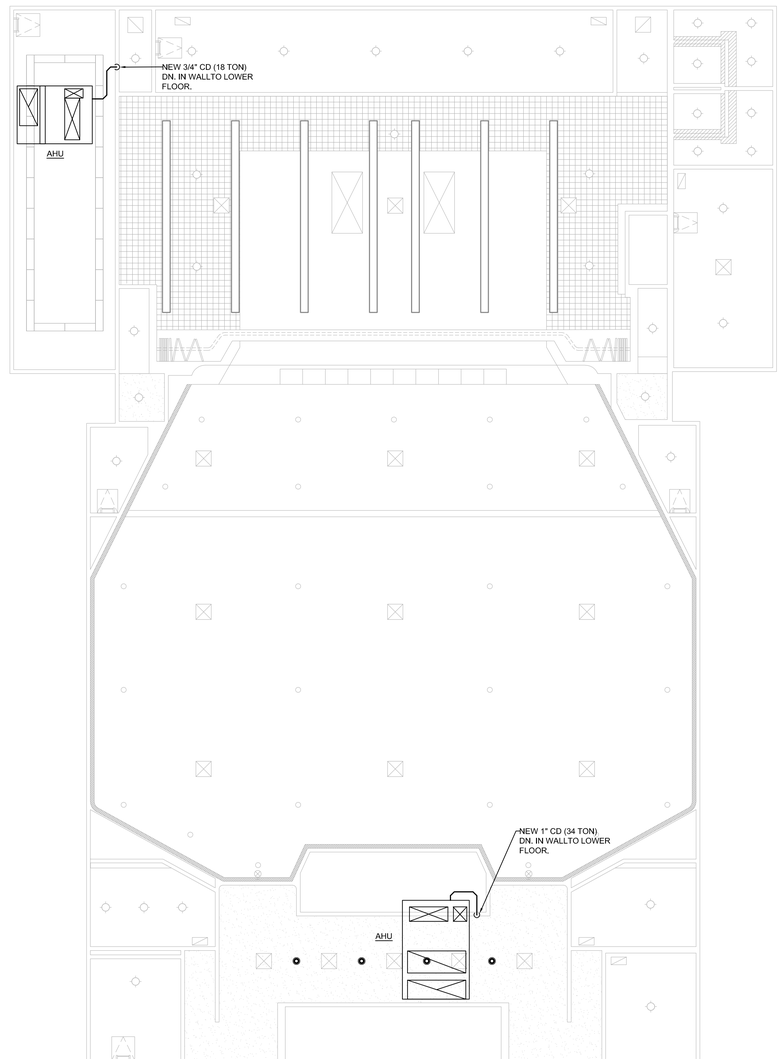
Sheet Title

Building 'B'
First Floor
Plumbing Plan

Sheet Number

PB201

Plot Date: 11/15/2019 2:39:01 PM Last Save By: manolastas Login: Raul Manolastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_PB201.dwg



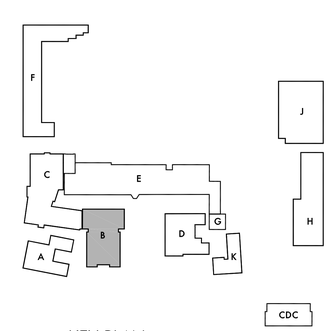
1 PLUMBING MEZZANINE PLAN

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

KEYNOTES

1 -

AHU #	DENOTES MECHANICAL AIR HANDLING UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.



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Sheet Title

Buildings 'B'
Mezzanine Level
Plumbing Plan

Sheet Number

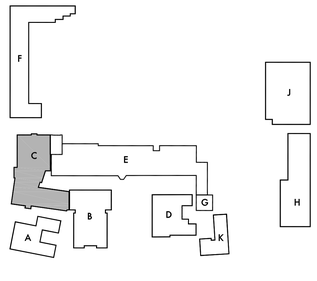
PB202

Plot Date: 11/15/2019 2:42:53 PM Last Save By: jmanolastas Login: Raul Manolastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_PB202.dwg

1 SECOND FLOOR PLUMBING PLAN

KEYNOTES

1. EXISTING GAS LINE TO BE CAPPED AS SHOWN. REMOVE ALL GAS LINE FROM THIS POINT SERVING REMOVED EXISTING FANCOIL UNIT. SEE MECHANICAL DEMOLITION PLANS.
2. EXISTING GAS LINE UP SERVING ROOFTOP HVAC UNIT.
3. EXISTING GAS LINE DOWN IN WALL SERVING SCIENCE LAB .
4. EXISTING GAS LINE DOWN IN WALL SERVING EXISTING WATER HEATER.
5. NEW 1" LPG (60CFH; TDL=475) UP TO SERVE NEW ROOFTOP HVAC UNIT
6. NEW 1-1/4" LPG (150CFH; TDL=465) UP TO SERVE NEW ROOFTOP HVAC UNIT
7. NEW 1" LPG (60CFH; TDL=455) UP TO SERVE NEW ROOFTOP HVAC UNIT
8. NEW 1-1/4" LPG (150CFH; TDL=425) UP TO SERVE NEW ROOFTOP HVAC UNIT
9. NEW 1-1/4" LPG (150CFH; TDL=355) UP TO SERVE NEW ROOFTOP HVAC UNIT
10. NEW 1-1/4" LPG (150CFH; TDL=335) UP TO SERVE NEW ROOFTOP HVAC UNIT
11. NEW 1" LPG (60CFH; TDL=340) UP TO SERVE NEW ROOFTOP HVAC UNIT
12. NEW 1" LPG (60CFH; TDL=370) UP TO SERVE NEW ROOFTOP HVAC UNIT



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Sheet Title

Building 'C'
Second Floor
Plumbing Plan

Sheet Number

PC202

Plot Date: 11/15/2019 2:47:38 PM Last Save By: manolastas Login: Raul Manolastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_PC202.dwg

1 PLUMBING ROOF PLAN

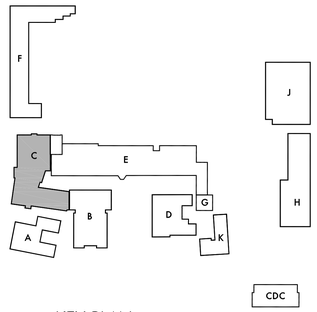
SCALE: 1/8"=1'-0"

KEYNOTES

1 XX-XX

LEGEND

RTU #	DENOTES MECHANICAL ROOFTOP UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.



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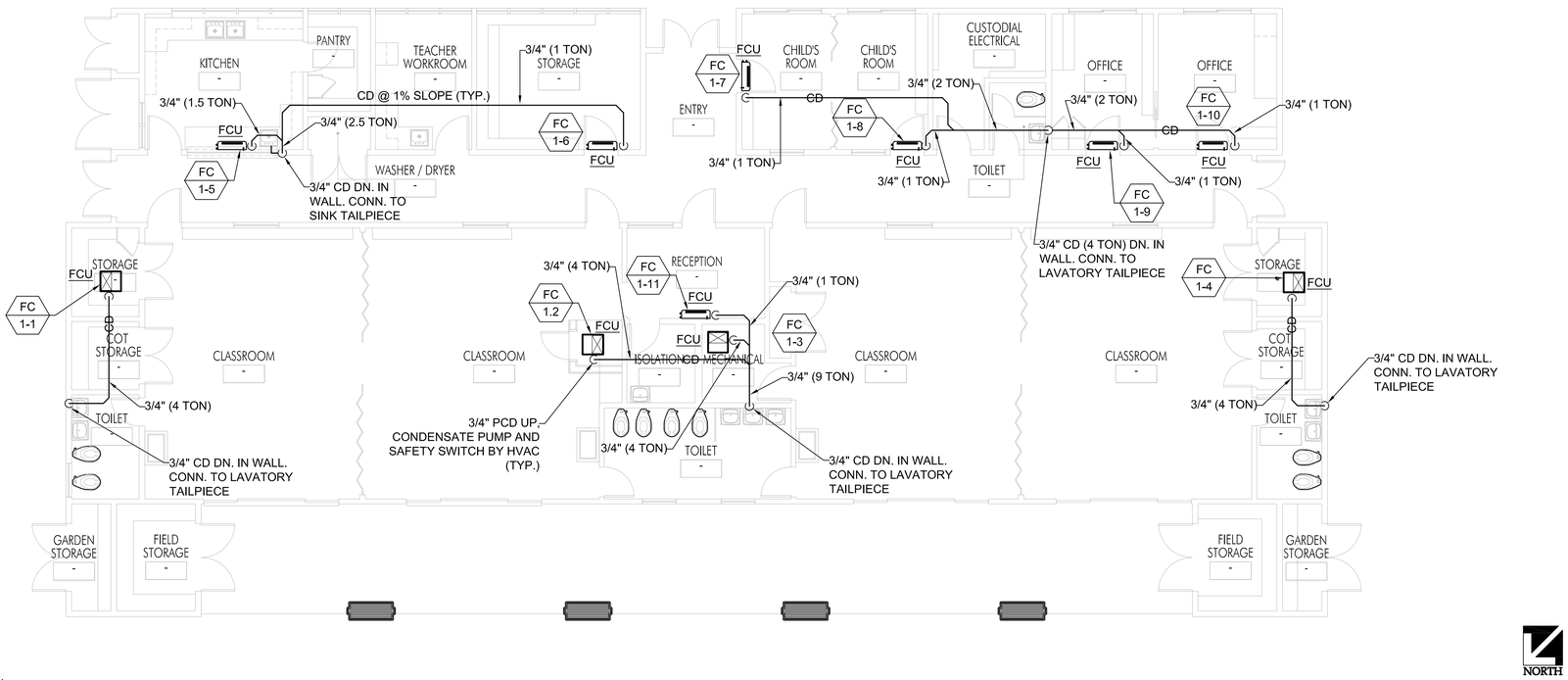
Sheet Title

Building 'C'
Plumbing Roof Plan

Sheet Number

PC203

Plot Date: 11/15/2019 2:49:43 PM Last Save By: manolastas Login: Raul Manolastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_PC203.dwg



1 PLUMBING PLAN

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

KEYNOTES

1 -

LEGEND

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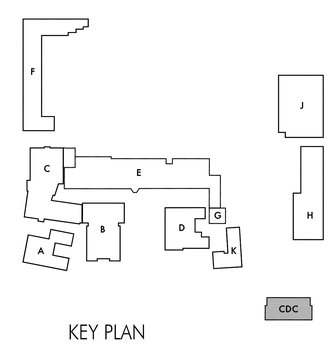

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Project No. 19009

Sheet Title

Building 'CDC'
First Floor
Plumbing Plans

Sheet Number

PCDC201

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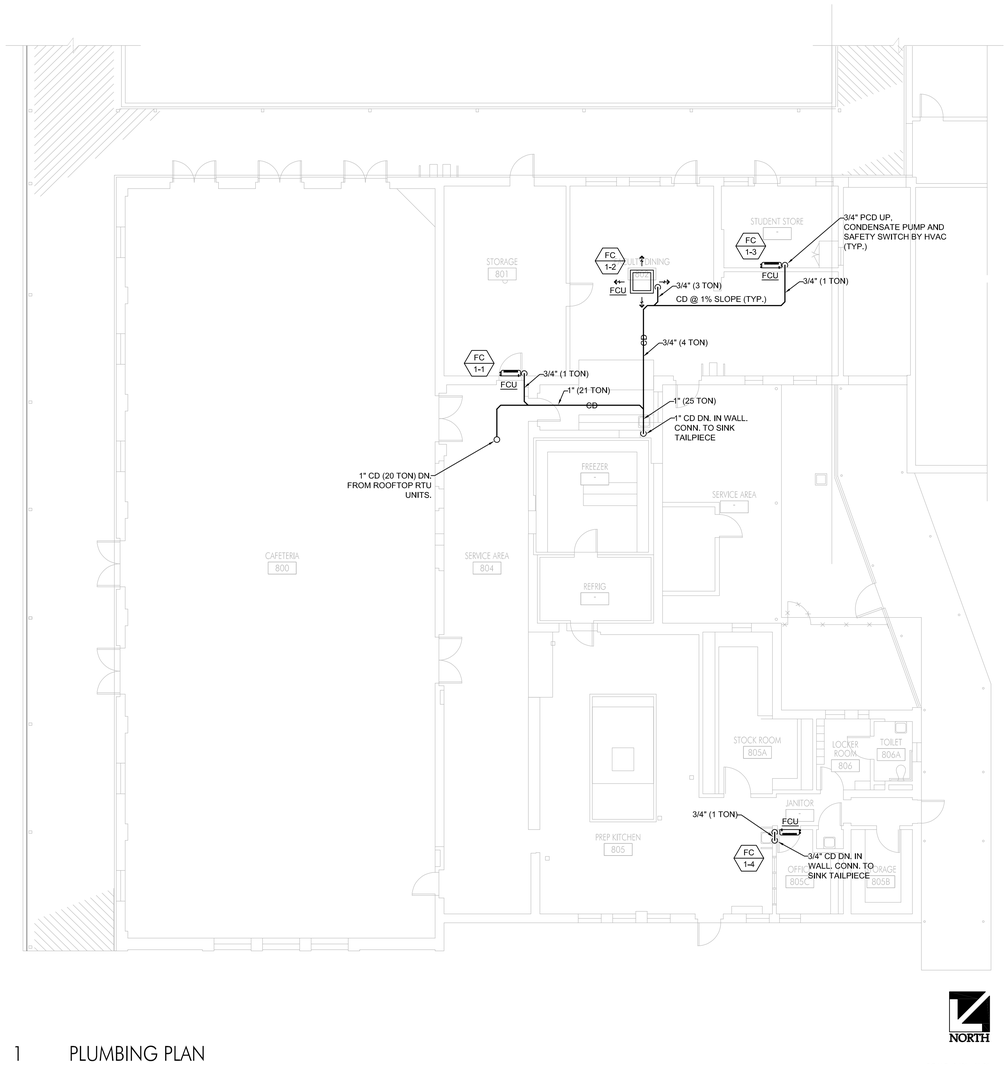
LEGEND

FC #	DENOTES MECHANICAL FANCOIL UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.

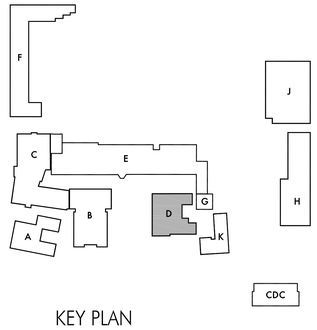
KEYNOTES

1 XX-XX



1 PLUMBING PLAN

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



KEY PLAN

DSA Stamp

Architect

RACHLIN PARTNERS
8640 National Boulevard
Culver City, CA 90232
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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

Date: .....
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. INGERSOLL
NO. C-26229
REN. 2-25-21
STATE OF CALIFORNIA

Consultants

S&K ENGINEERS
421 East Huntington Drive
Monrovia, California 91016
P: 626.930.1383 F: 626.930.1385
Project No. 19009

Sheet Title

Building 'D'
First Floor
Plumbing Plans

Sheet Number

PD201

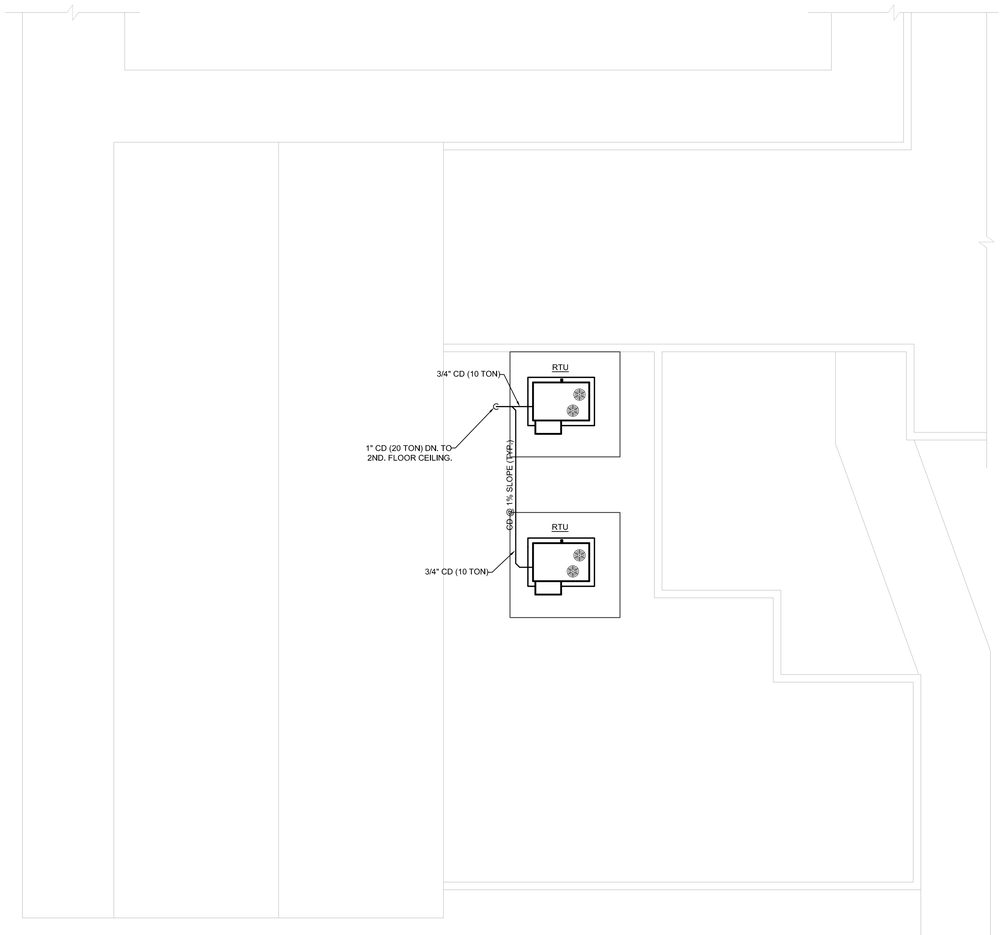
Plot Date: 11/15/2019 2:57:13 PM Last Save By: manolastas Login: Raul Manolastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_PD201.dwg

LEGEND

RTU #	DENOTES MECHANICAL ROOFTOP UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.

KEYNOTES

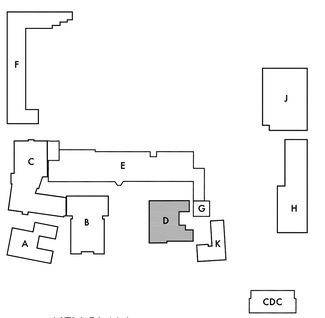
1 XX-XX



NORTH

1 PLUMBING ROOF PLAN

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



KEY PLAN

DSA Stamp

Architect

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Culver City, CA 90232
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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
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Checked By: RI

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LICENSED ARCHITECT
RICHARD M. INSPERGO
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REN. 2-25-21
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Project No. 19009

Sheet Title

Building 'D'
Plumbing
Roof Plan

Sheet Number

PD202

Plot Date: 11/15/2019 2:59:37 PM Last Save By: jmanolastas Login: Raul Manolastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_PD202.dwg

LEGEND

FC #	DENOTES MECHANICAL FANCOIL UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.

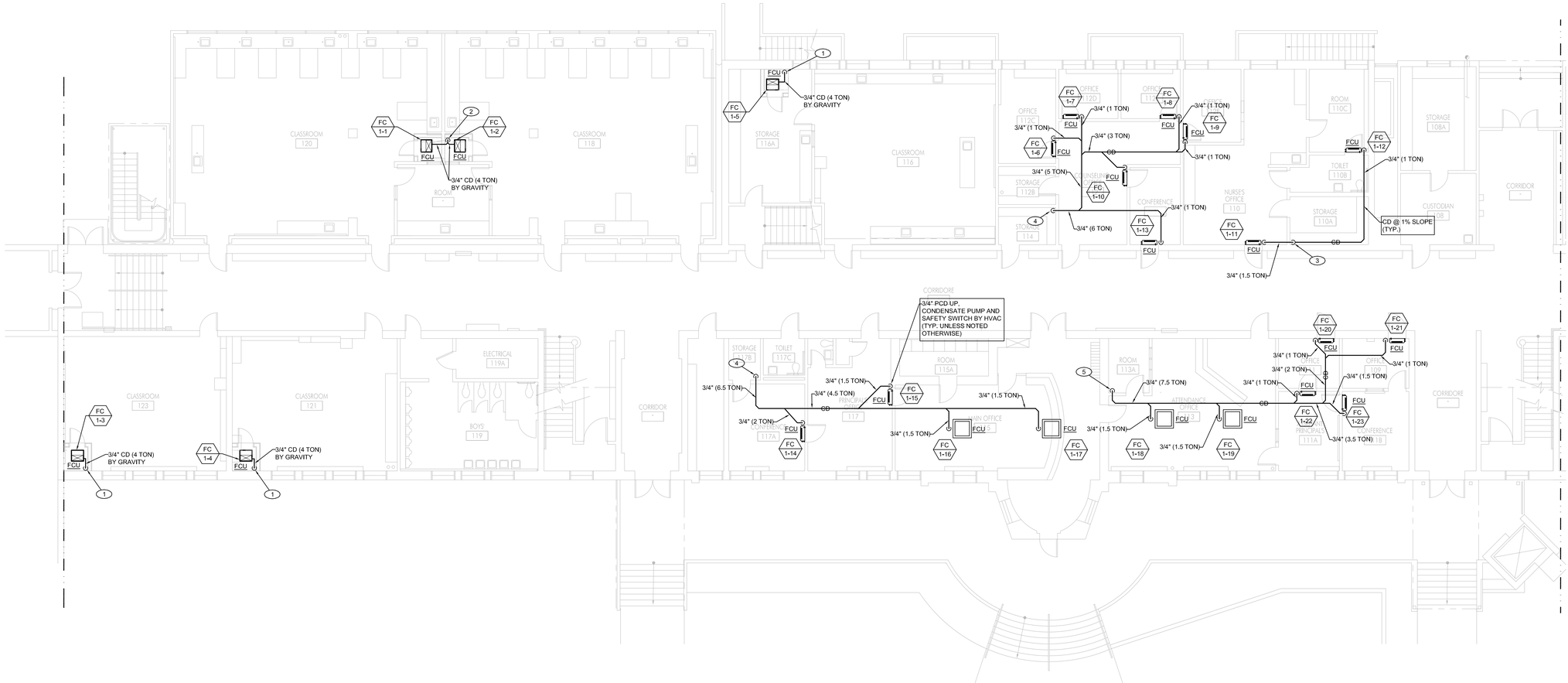
NOTE:

IF CONTRACTOR OPTED TO COMBINE CONDENSATE DRAINS AT BASEMENT BEFORE IT TERMINATES TO AN ACCEPTABLE RECEPTOR, A SIZING TABLE SHOULD BE FOLLOWED AS SHOWN BELOW:

EQUIPMENT CAPACITY (TONS)	MINIMUM CONDENSATE DRAIN SIZE (INCHES)
0 - 20	3/4"
21 - 40	1"
41 - 90	1-1/4"

KEYNOTES

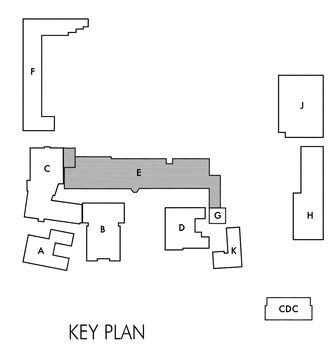
1. 3/4" CD (4 TON) DN. INTO BASEMENT. CD TO BE ROUTED AND DRAINED ONTO EXISTING FLOOR SINK OR ACCEPTABLE RECEPTOR AT BOILER ROOM. CONTRACTOR TO FIELD VERIFY EXISTING LOCATION.
2. 3/4" CD (8 TON) DN. INTO BASEMENT. CD TO BE ROUTED AND DRAINED ONTO EXISTING FLOOR SINK OR ACCEPTABLE RECEPTOR AT BOILER ROOM. CONTRACTOR TO FIELD VERIFY EXISTING LOCATION.
3. 3/4" CD (2.5 TON) DN. ALONG WALL INTO BASEMENT. CD TO BE ROUTED AND DRAINED ONTO EXISTING FLOOR SINK OR ACCEPTABLE RECEPTOR AT BOILER ROOM. CONTRACTOR TO FIELD VERIFY EXISTING LOCATION.
4. 3/4" CD (6 TON) DN. ALONG WALL INTO BASEMENT. CD TO BE ROUTED AND DRAINED ONTO EXISTING FLOOR SINK OR ACCEPTABLE RECEPTOR AT BOILER ROOM. CONTRACTOR TO FIELD VERIFY EXISTING LOCATION.
5. 3/4" CD (7.5 TON) DN. ALONG WALL INTO BASEMENT. CD TO BE ROUTED AND DRAINED ONTO EXISTING FLOOR SINK OR ACCEPTABLE RECEPTOR AT BOILER ROOM. CONTRACTOR TO FIELD VERIFY EXISTING LOCATION.



1 FIRST FLOOR PLUMBING PLAN - SEGMENT A

NORTH

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



KEY PLAN

DSA Stamp

Architect

RACHLIN PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

Date: .....
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD M. INGRASSIA
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Project No. 19009

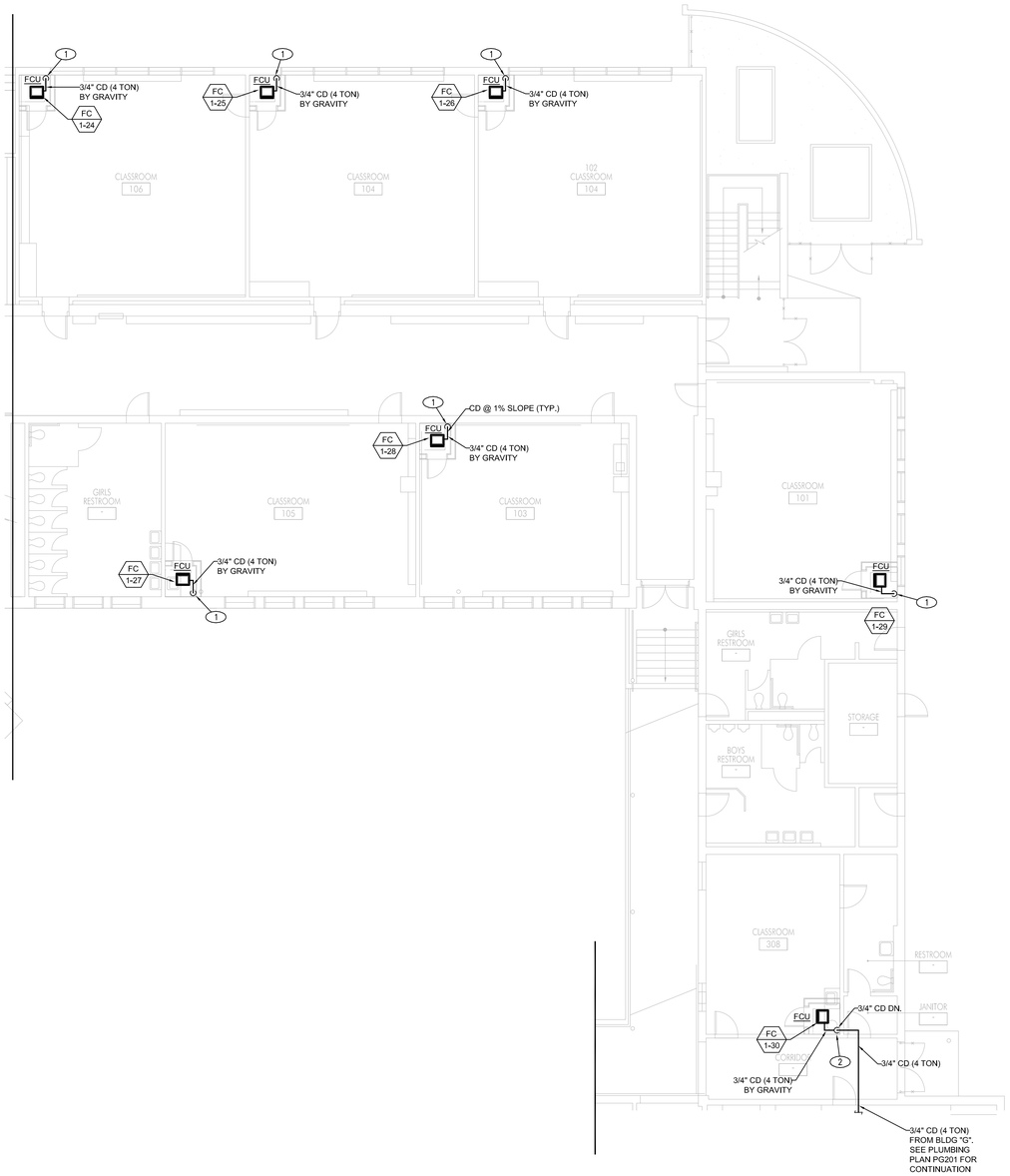
Sheet Title

Building 'E'
First Floor
Plumbing Plan
Segment A

Sheet Number

PE201A

Plot Date: 11/15/2019 3:01:25 PM Last Save By: rmonaliastas Login: Raul Monaliastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_PE201A.dwg



1 FIRST FLOOR PLUMBING PLAN - SEGMENT B

NORTH

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

KEYNOTES

1. 3/4" CD (4 TON) DN. INTO BASEMENT. CD TO BE ROUTED AND DRAINED ONTO EXISTING FLOOR SINK OR ACCEPTABLE RECEPTOR AT BOILER ROOM. CONTRACTOR TO FIELD VERIFY EXISTING LOCATION.
2. 3/4" CD (8 TON) DN. INTO BASEMENT. CD TO BE ROUTED AND DRAINED ONTO EXISTING FLOOR SINK OR ACCEPTABLE RECEPTOR AT BOILER ROOM. CONTRACTOR TO FIELD VERIFY EXISTING LOCATION.

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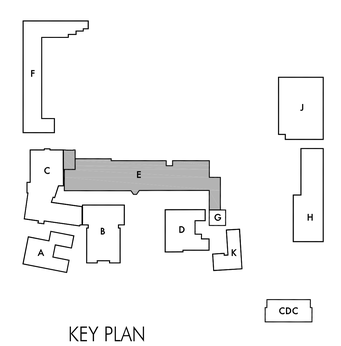
21 - 40	1"
41 - 90	1-1/4"

LEGEND

FC # — DENOTES MECHANICAL FANCOIL UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.



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Architect

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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LICENSED ARCHITECT
RICHARD M. INSPERGO
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

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Project No. 19009

Sheet Title

Building 'E'
First Floor
Plumbing Plan
Segment B

Sheet Number

PE201B

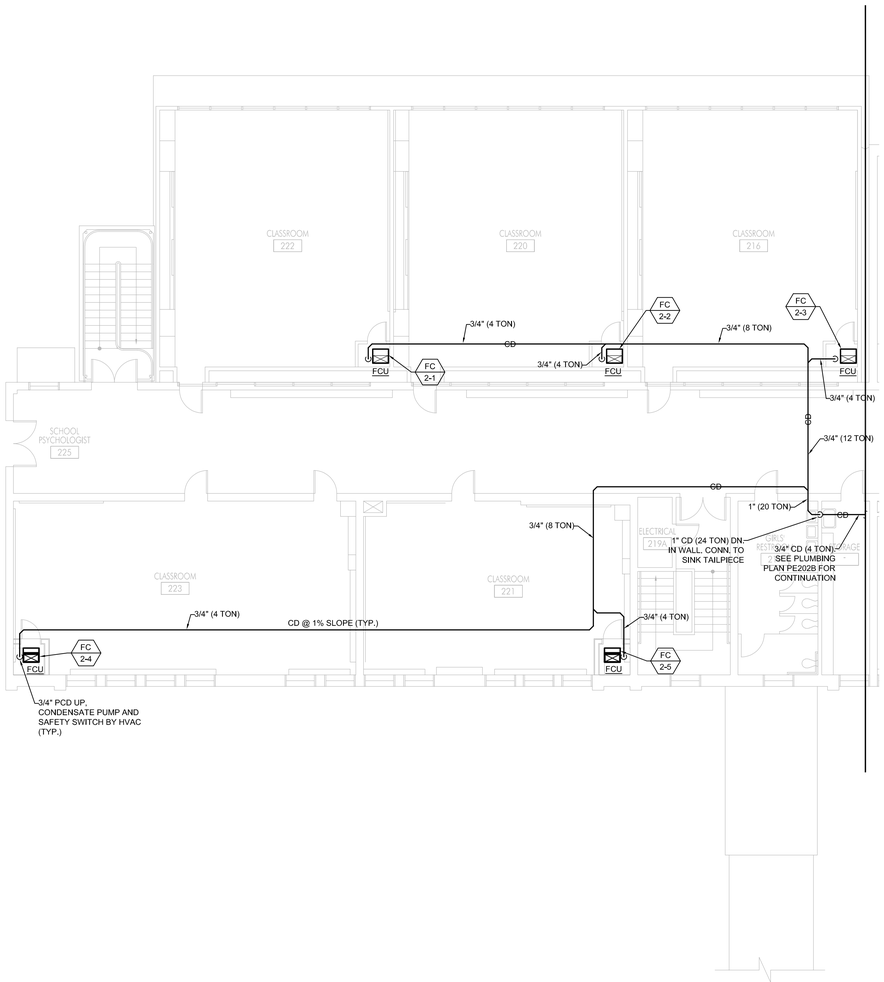
Plot Date: 11/15/2019 3:03:18 PM Last Save By: jmanolastas Login: Raul Manolastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_PE201B.dwg

LEGEND

FC #	DENOTES MECHANICAL FANCOIL UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.

KEYNOTES

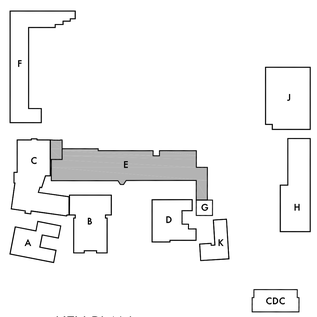
1 XX-XX



1 SECOND FLOOR PLUMBING PLAN - SEGMENT A

NORTH

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



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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
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Date: .....
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LICENSED ARCHITECT
RICHARD M. INGRASSIA
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

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Monrovia, California 91016
P: 626.930.1383 F: 626.930.1385
Project No. 19009

Sheet Title

Building 'E'
Second Floor
Plumbing Plan
Segment A

Sheet Number

PE202A

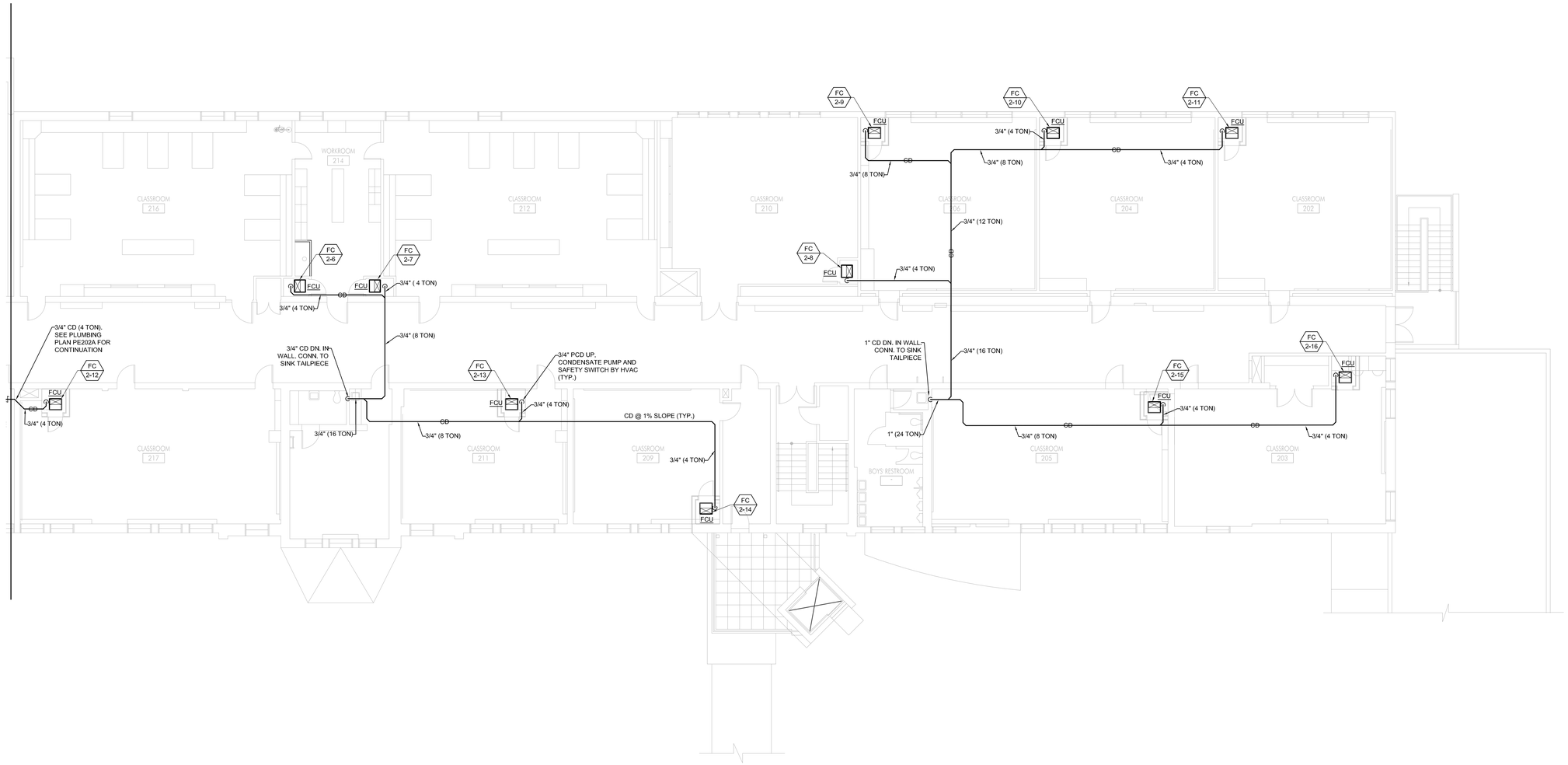
Plot Date: 11/15/2019 3:05:31 PM Last Save By: jmanolastas Login: Raul Manolastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_PE202A.dwg

LEGEND

FC #	DENOTES MECHANICAL FANCOIL UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.

KEYNOTES

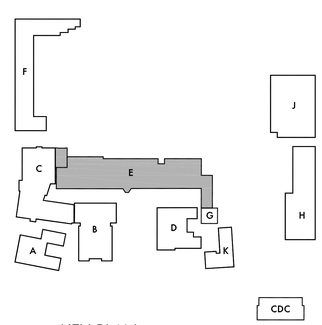
1 XX-XX



1 SECOND FLOOR PLUMBING PLAN - SEGMENT B

NORTH

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



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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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LICENSED ARCHITECT
RICHARD M. INGBRETSEN
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REN. 2-28-21
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Consultants

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Monrovia, California 91016
P: 626.930.1383 F: 626.930.1385
Project No. 19009

Sheet Title

Building 'E'
Second Floor
Plumbing Plan
Segment B

Sheet Number

PE202B

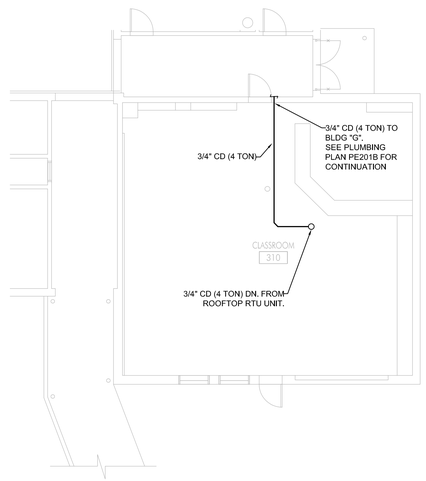
Plot Date: 11/15/2019 3:07:31 PM Last Save By: manolastes Login: Raul Manolastes H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_PE202B.dwg

LEGEND

RTU #	DENOTES MECHANICAL ROOFTOP UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.

KEYNOTES

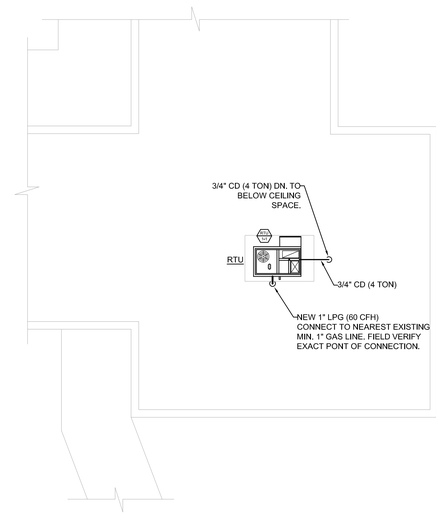
1 XX-XX



1 PLUMBING PLAN

NORTH

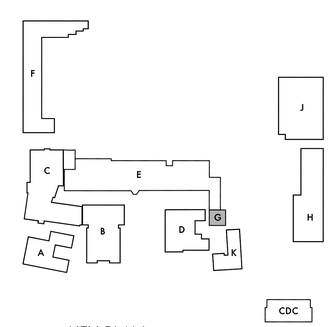
SCALE: 1/8"=1'-0"



E PLUMBING ROOF PLAN

NORTH

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



KEY PLAN

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
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Santa Monica, California 90403

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LICENSED ARCHITECT
RICHARD M. INSPERGO
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

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Monrovia, California 91016
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Project No. 19009

Sheet Title

Building 'G'
Plumbing First Floor
and Roof Plans

Sheet Number

PG201

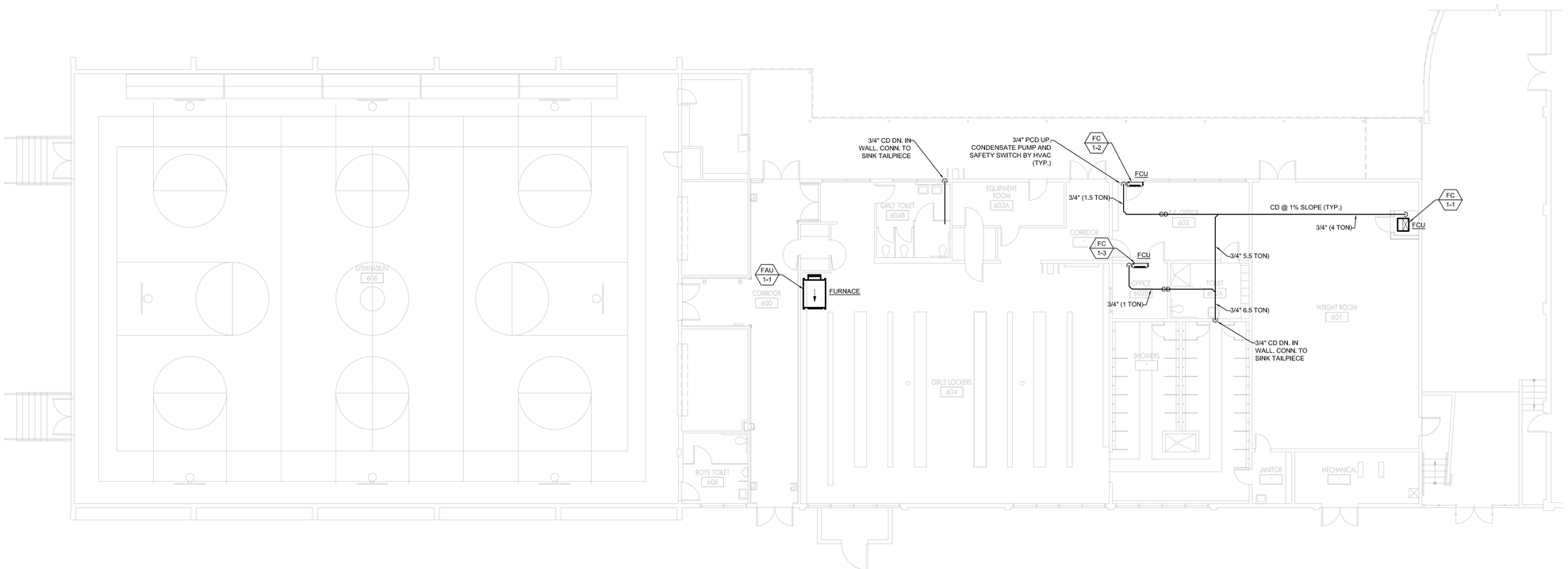
Plot Date: 11/15/2019 3:09:25 PM Last Save By: jmanolastas Login: Raul Manolastas H:\2019\19009 - Rachlin - SMMUSD - Lincoln MS Modernization\Sheet\Plumbing\19009_PG201.dwg

LEGEND

FC #	DENOTES MECHANICAL FANCOIL UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.

KEYNOTES

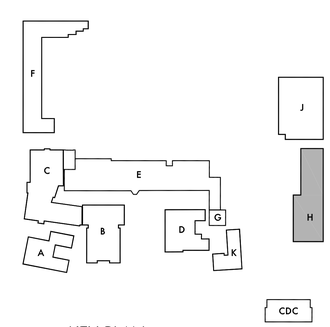
1 XX-XX



NORTH

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

1 PLUMBING PLAN



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Architect

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Culver City, CA 90232
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RICHARD M. INGRASSIA
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REN. 2-28-21
STATE OF CALIFORNIA

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Monrovia, California 91016
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Project No. 19009

Sheet Title

Building 'H'
First Floor
Plumbing Plan

Sheet Number

PH201

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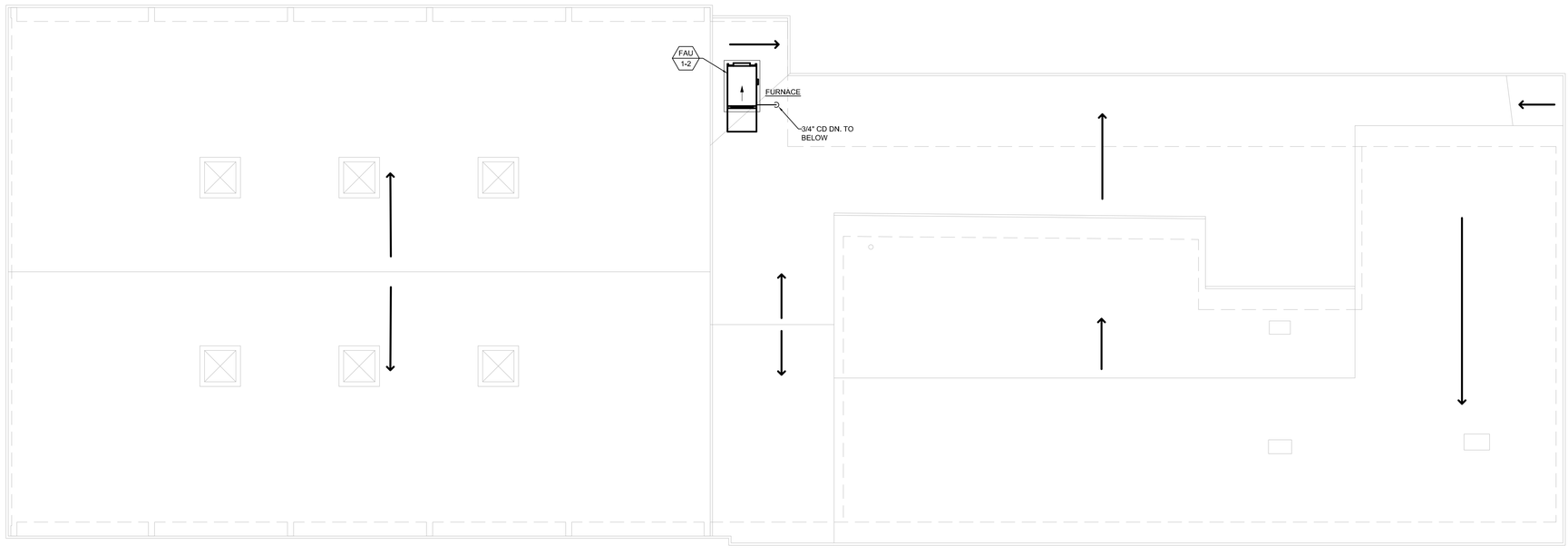
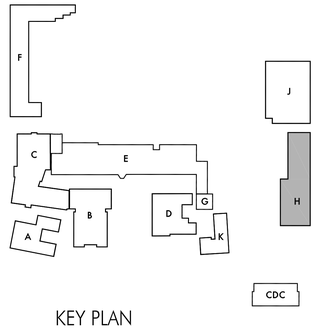


1 PLUMBING ROOF PLAN

NORTH

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



KEY PLAN

KEYNOTES

1 XX-XX

DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
1	07.22.19	-

Date: .....
Scale: As Shown
Drawn By: DH, RM
Checked By: RI

Architect / Engineer Stamp

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Project No. 19009

Sheet Title

Building 'H'
Plumbing Roof Plan

Sheet Number

PH202

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KEYNOTES

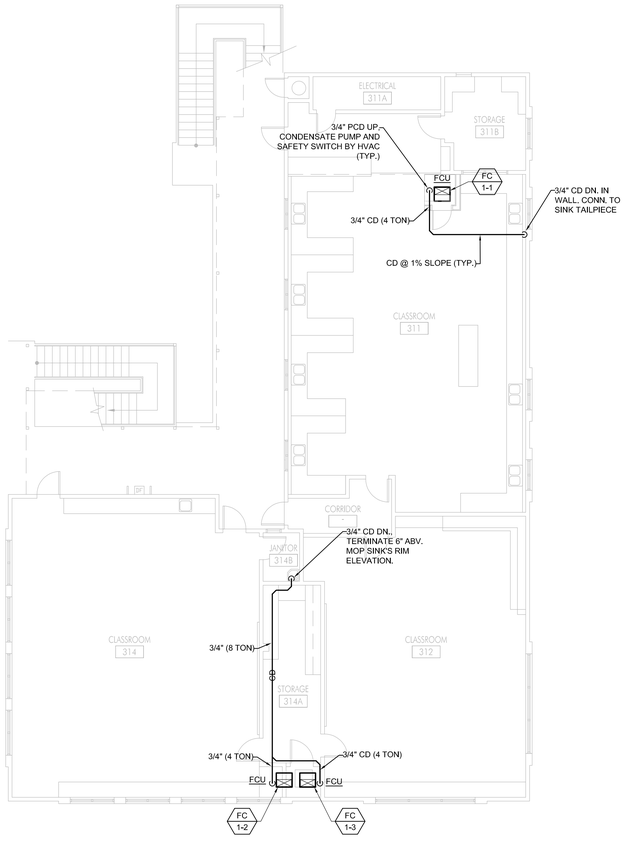
1 XX-XX

LEGEND

FC #	DENOTES MECHANICAL FANCOIL UNIT DESIGNATION. SEE MECHANICAL SHEETS FOR SCHEDULES.

KEYNOTES

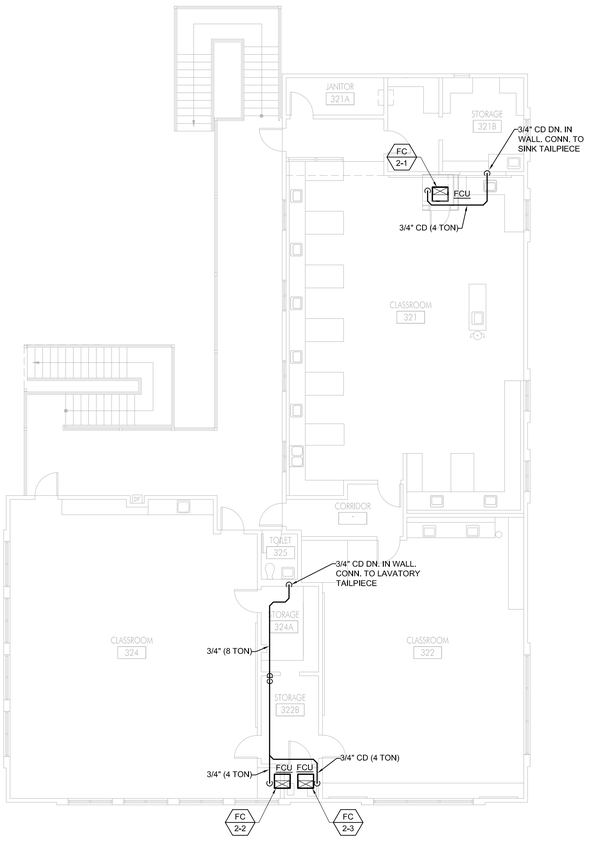
1 XX-XX



1 FIRST FLOOR PLUMBING PLAN

NORTH

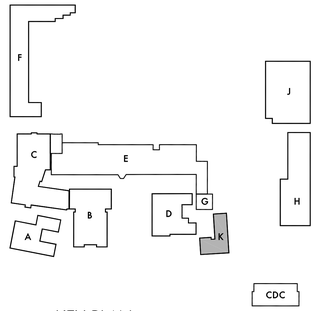
SCALE: 1/8"=1'-0"



2 SECOND FLOOR PLUMBING PLAN

NORTH

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



KEY PLAN

DSA Stamp

Architect

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STATE OF CALIFORNIA

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Project No. 19009

Sheet Title

Building 'K'
Plumbing Plans

Sheet Number

PK201

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ELECTRICAL NOTES

NOTE: THIS DOCUMENT FORMS A PART OF THE SPECIFICATIONS AND SHALL BE CONSIDERED THE SAME AS IF ATTACHED THERETO.

1. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT.FURNISH LABOR AND TOOLS NECESSARY AND INSTALL APPARATUS, MATERIALS, AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NECESSARILY SHOWN, SUCH AS COUPLINGS, HANGERS, BRACKETS, CLAMPS, BOXES, CONNECTORS, AND HARDWARE.

2. BEFORE SUBMITTING THE BID PROPOSAL, VISIT THE JOB SITE AND FULLY ACQUAINT WITH THE EXISTING JOB CONDITIONS, VERIFY EXISTING AND NEW REQUIREMENT, INCLUDING NECESSARY PULL BOXES, SIZE AND NUMBER OF CONDUITS AND CONDUCTORS, PANELS, DISCONNECT SWITCHES CABLES, TIME CLOCKS ETC., WHETHER SHOWN ON DRAWINGS OR NOT, BUT REQUIRED FOR PROVIDING A COMPLETE AND OPERABLE FIRE ALARM SYSTEM, WITHOUT ADDITIONAL COST TO THE DISTRICT.

3. EXAMINE ALL CONTRACT DOCUMENTS AND VERIFY ALL DIMENSIONS AND CONDITIONS, EXISTING AND NEW CEILINGS AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING, ANY WORK.DEVICES, CONTROLS, SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING.

4. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATION OF FIRE ALARM DEVICES AND EQUIPMENT AND THE CIRCUIT ARRANGEMENT OF THE REQUIRED WIRING, AND THOUGH NOT NECESSARILY INDICATING THE ACTUAL ROUTES OF CONDUITS, THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS PROPER COORDINATION WITH THE EXISTING FIELD CONDITIONS AND SPACE WILL PERMIT.SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF THE DISTRICT FOR VISUAL AND STRUCTURAL REASONS.THE DRAWINGS DO NOT SHOW NECESSARY OFFSETS, BENDS, PULL BOXES AND OBSTRUCTIONS.THE DRAWINGS ARE NOT INTENDED TO BE SCALED AND THE CONTRACTOR SHALL REFER TO THE GENERAL CONSTRUCTION DRAWINGS FOR DIMENSIONS. FIELD COORDINATE WITH EXISTING CONDITIONS.

5. ARRANGE FOR INSPECTION WITH IOR AND TESTS IN CONNECTION THEREWITH, COMPLY WITH CODES.BEFORE THE WORK IS ACCEPTED, PRESENT TO THE DISTRICT SIGNED CERTIFICATE OF FINAL INSPECTION.

6. THE ELECTRICAL WORK SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE PREVAILING LATEST ADOPTED CALIFORNIA ELECTRICAL CODE, T-24 PART 3 2016 REGULATION AND ORDINANCES, AND AUTHORITIES HAVING JURISDICTION.

7. ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS WHERE REQUIRED FOR THE PROTECTION OF THE PUBLIC AND EMPLOYEES.

8. UNLESS OTHERWISE SHOWN OR SPECIFIED, CONDUIT SHALL BE CONCEALED IN WALLS OR ABOVE FINISHED CEILING.
   A. CONCEALED CONDUIT SHALL BE RUN IN AS DIRECT A LINE AS POSSIBLE.BENDS SHALL BE OF LONG SWEEP TYPE.
   B. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO, OR AT RIGHT ANGLES WITH THE LINES OF THE BUILDING.BEND SHALL BE FREE FROM DENTS OR FLATTENING.CONDUIT SHALL BE SUPPORTED AND SECURELY FASTENED.
   C. CONDUIT SHALL BE INSTALLED AS A COMPLETE SYSTEM BEFORE WIRE OR CONDUCTORS ARE PULLED IN.
   D. CONDUIT SHALL BE INSTALLED ENTIRELY FREE FROM OTHER PIPING, VALVES OR OTHER MECHANICAL EQUIPMENT, AND SHALL NOT BE INSTALLED WITHIN 6 INCHES OF HOT WATER OR HEATING FLUES.
   E. POCKETS OR TRAPS IN ALL CONDUIT RUNS WHERE MOISTURE MAY COLLECT SHALL BE AVOIDED.WHERE DIPS ARE UNAVOIDABLE, A PULL BOX SHALL BE LOCATED AT EACH LOW POINT IN ORDER TO PROVIDE A MEANS OF DRAINAGE.
   F. THE CONDUIT SYSTEM AND CONDUCTING WIRE ENCLOSURES SHALL BE SECURELY BONDED TOGETHER SO THAT FOR EVERY CONDUCTING COMPONENT IS PROVIDED WITH A LOW RESISTANCE PATH TO GROUND.
   G. DOUBLE LOCKNUTS SHALL BE USED FOR SECURING CONDUIT AT A BOX OR CABINET UNLESS A THREADED HUB IS PROVIDED AS PART OF THE BOX OR CABINET.
   H. RUNNING THREADS SHALL NOT BE USED ON CONDUIT FOR CONNECTION AT COUPLINGS.WHERE 2 LENGTHS OF CONDUIT MUST BE COUPLED TOGETHER, AND IT IS IMPOSSIBLE TO SCREW BOTH LENGTHS INTO AN ORDINARY COUPLING, THEN THE "ERICKSON" TYPE OF COUPLING MUST BE USED IN ORDER TO PROVIDE A RIGID JOINT THAT WILL BE BOTH MECHANICALLY AND ELECTRICALLY EFFECTIVE.
   I. COUPLING AND CONNECTORS USED ON ELECTRIC METALLIC TUBING SHALL BE, COMPRESSION TYPE.
   J. CONDUIT SHALL BE TERMINATED WITH SUITABLE BUSHINGS OR EQUIVALENT DEVICES WHICH SHALL PROTECT THE ENCLOSED WIRES FROM ABRASION AT THE ENDS.
   K. ALL BUILDING INTERIOR CONDUIT SIZES SHALL BE MINIMUM OF 3/4" AND 1" MINIMUM FOR ALL UNDERGROUND CONDUITS IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE "CEC".
   L. PROVIDE SLEEVES, NIPPLES, AND COUPLINGS REQUIRED FOR THE INSTALLATION OF CONDUIT. SLEEVES SHALL PROJECT 2" ABOVE FLOOR.
   M. FLEXIBLE CONDUIT SHALL BE PROVIDED TO CONNECT MOTORS ON SLIDING BASES, TO CONTROLS, AND TO VIBRATING EQUIPMENT.
   N. PROTECT CONDUIT FROM DAMAGE AND THE ENTRANCE OF WATER AND FOREIGN MATTER DURING THE CONSTRUCTION PERIOD.WATERTIGHT STOPPERS OR CAPS SHALL BE INSTALLED IMMEDIATELY AFTER THE CONDUIT IS INSTALLED, REMOVED ONLY WHEN WIRE IS TO BE INSTALLED.
   O. THOROUGHLY CLEAN THE INSIDE OF CONDUITS TO ASCERTAIN FOREIGN MATERIALS ARE REMOVED BEFORE PULLING WIRE OR CABLE.

9. PROVIDE AND INSTALL HANGERS, SUPPORTS AND FASTENERS AS REQUIRED.
   A. INSTALLATION OF HANGERS AND SUPPORTS SHALL BE MADE TO THE WOOD FRAMED STRUCTURE.
   B. FASTENERS FOR SUPPORTS AND HANGERS SHALL BE MADE WITH BEAM CLAMPS, U-BOLTS, OR OTHER APPROVED DEVISES.
   C. INSTALLATION SHALL BE SUCH SO AS TO SUPPORT CONDUIT WITHOUT SAGGING AND SHALL BE CLEAR OF THE WORK OF OTHER TRADES. PROVISION FOR EXPANSION AND CONTRACTION SHALL BE MADE.
   D. SPACING OF SUPPORTS FOR EXPOSED HORIZONTAL CONDUIT RUNS SHALL BE AS FOLLOWS.

SIZE OF CONDUIT (INCHES)	NUMBER OF CONDUITS IN RUN	LOCATION	MAXIMUM SUPPORT SPACING (FEET)
3/4	1 OR 2	ON A FLAT CEILING OR WALL	5
3/4	1 OR 2	WHERE IT IS DIFFICULT TO PROVIDE SUPPORTS EXCEPT AT INTERVALS FIXED BY BUILDING CONSTRUCTION	7
3/4	3 OR MORE	ANY LOCATION	7
1 & 2	1 OR 2	ON A FLAT CEILING OR WALL	6
1 & 2	1 OR 2	WHERE IT IS DIFFICULT TO PROVIDE SUPPORTS EXCEPT AT INTERVALS FIXED BY BUILDING CONSTRUCTION	10
1 & 2	3 OR MORE	ANY LOCATION	10

   E. SPACING OF SUPPORTS FOR EXPOSED VERTICAL CONDUIT RUNS SHALL BE AS FOLLOWS.

SIZE OF CONDUIT (INCHES)	MAXIMUM SUPPORT SPACING (FEET)
3/4	7
1 AND 1¼	8
1½ AND 2	10

   F. ELECTRICAL ENCLOSURES SHALL BE WEATHERPROOF WHEN EXPOSED TO OUTDOORS OR WET AREAS.

10. EXACT LOCATION OF EQUIPMENT AND LIGHTING FOXTURES SHALL BE VERIFIED IN FIELD. COORDINATE INSTALLATION OF ELECTRICAL SYSTEM WITH EXISTING BUILDING STRUCTURES. PRIOR TO COMPLETION OF AFFECTED WORK, CONTRACTOR SHALL INSTRUCT THE DISTRICT ON THE USE AND MAINTENANCE OF THE INSTALLED SYSTEM.

11. SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN. EXCEPT WHERE NOTED TO BE LARGER, MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 2 1/8" DEEP. JUNCTION BOXES SHALL BE LABELED WITH RESPECTIVE CIRCUIT NUMBERS.

12. OUTLET BOXES SHALL BE FLUSH WITH THE FINISHED SURFACE OF WALLS AND CEILINGS OF COMBUSTIBLE MATERIALS.

13. OPENINGS IN BOXES, CONDUIT BODIES AND FITTINGS SHALL BE ADEQUATELY CLOSED.

14. SURFACE MOUNTED BOXES AND CABINETS MOUNTED IN WET AND DAMP LOCATIONS SHALL BE WEATHERPROOF AND SHALL HAVE AT LEAST 1/4 INCH AIR SPACE BETWEEN THE BOX AND MOUNTING SURFACE.

15. ENTRANCE TO ROOMS AND OTHER GUARDED LOCATIONS THAT CONTAIN LIVE PARTS SHALL BE MARKED WITH A CONSPICUOUS WARNING SIGN FORBIDDING UNQUALIFIED PERSONS TO ENTER.

16. CUT FLOORS, CEILINGS AND WALLS AS REQUIRED FOR INSTALLATION OF ELECTRICAL WORK. APPROVED PENETRATION THROUGH CONCRETE WALLS OR CEILINGS SHALL BE PROVIDED BY MEANS OF SLEEVES OR CORE DRILLING, CONTRACTOR SHALL COORDINATE WITH DISTRICT. CONDUITS SHALL NOT PENETRATE STRUCTURAL SLAB AND WALL. ALL WORK SHALL BE PATCHED AND REPAIRED AS DIRECTED BY DISTRICT.

17. CUTTING, BORING, SAW CUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA REPRESENTATIVE.

18. AFTER AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, SIX (6) PRINTS OF ALL REQUIRED SHOP DRAWINGS, BROCHURES AND OTHER SATISFACTORY DESCRIPTIONS INDICATING MANUFACTURER, CATALOG NUMBER, DIMENSIONS AND PERFORMANCE OF THE EQUIPMENT.

19. USE "THNN/THWN" COPPER WIRES OR EQUAL FOR ALL BRANCH CIRCUIT WIRING WITH A SEPARATE GREEN GROUNDING CONDUCTOR. SIZE PER C.E.C 250-122.

20. EQUIPMENT SHALL BE LISTED BY A RECOGNIZED TESTING LABORATORY.

21. THE NON-CURRENT CARRYING METALLIC PARTS OF ALL ELECTRICAL/FIRE ALARM EQUIPMENT AND ENCLOSURES, INCLUDING CONDUITS, SUPPORTS, CABINETS, AND ASSOCIATED EQUIPMENT, WHICH ARE INSTALLED OR CONNECTED UNDER THIS CONTRACT, SHALL BE PROPERLY GROUNDED BY CONNECTION TO THE GROUNDING SYSTEM, REGARDLESS OF WHETHER OR NOT THESE CONNECTIONS ARE SHOWN ON THE DRAWINGS.
   A. THE GROUNDING INSTALLATION SHALL HAVE PROVISIONS FOR BOTH SYSTEM AND EQUIPMENT GROUNDS AS DEFINED BY THE "C.E.C" THESE GROUNDING SYSTEMS ARE TO BE EFFECTIVELY INSULATED FROM EACH OTHER EXCEPT AT THE SERVICE CONNECTION.
   B. GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF "C.E.C" AND THE "NESC". LOCAL REQUIREMENTS OF THE INSPECTION AUTHORITY HAVING JURISDICTION SHALL GOVERN IN ALL MATTERS OF INTERPRETATION.
   C. IF WATER SERVICE IS USED FOR GROUNDING POINT, IT SHALL BE ASCERTAINED THAT THE WATER PIPING IS ELECTRICALLY CONTINUOUS AT JOINTS AND IS OF CONDUCTING MATERIAL. WATER PIPING WITH SWEATED JOINTS IN ELECTRICAL PATH SHALL HAVE SUCH JOINTS BONDED.
   D. WHERE GROUND CABLES ENTER AND LEAVE FERROUS CONDUITS, THEY SHALL BE MECHANICALLY CONNECTED TO THE END OF THE RACEWAY. WHERE GROUND CABLE PASSES THROUGH FERROUS FLOORING OR FRAMING, CONNECTION SHALL BE MADE TO SUCH METAL.

21. THE CONTRACTOR SHALL KEEP ALL PARTS OF THE BUILDING AND SITE FREE FROM ANY ACCUMULATIONS OF RUBBISH OR WASTE MATERIALS CAUSED BY HIS WORKMEN, AND SHALL REMOVE SUCH ACCUMULATIONS FROM THE BUILDING, SITE AND PROPERTY. JOB SITE SHALL BE CLEANED AT THE END OF EACH WORKING DAY.

22. THOROUGHLY CLEAN ALL PARTS OF THE EQUIPMENT AND MATERIAL INSTALLED UNDER THIS DIVISION. SURFACES OF EXPOSED CONDUIT SHALL BE CLEANED OF CEMENT, PLASTER, DIRT, RUST, GREASE, AND OTHER FOREIGN MATTER, AND BE LEFT IN CONDITION SUITABLE TO THE CONTRACTOR AND ACCEPTABLE FOR PAINTING.
   A. EQUIPMENT FURNISHED WITHOUT SHOP APPLIED FINISH SHALL BE FIELD PAINTED.
   B. CONCEALED SURFACES OF METAL RACKS, FRAMES, AND BOXES SHALL BE PAINTED BEFORE MOUNTING.
   C. AFTER TESTS HAVE BEEN COMPLETED, CLEAN ALL EQUIPMENT WITH SOAP AND WATER, LEAVING EVERYTHING IN WORKING ORDER AT THE COMPLETION OF THE WORK.

23. A) WIRING AND CONNECTIONS SHALL BE TESTED FOR CONTINUITY, GROUNDS, SHORT CIRCUITS, AND OTHER DEFECTS BEFORE ANY EQUIPMENT OR FIXTURES ARE CONNECTED THERETO. CABLES SHALL BE CHECKED FOR CONTINUITY, SHORTS, INSULATION RESISTANCE, AND PROPER PHASING.
   B) CONTRACTOR SHALL TERMINATE ALL CABLES & WIRES WITH TERMINAL LUGS (SUPPLIED BY CONTRACTOR)

24. INSULATION SHALL BE TESTED BEFORE AND AFTER INSTALLATION, AND BEFORE ENERGIZING.
   A. RUBBER INSULATION SHALL BE TESTED FOR ACCEPTANCE BY APPLYING DIRECT CURRENT POTENTIAL NOT OVER 3 TIMES THE RATIO OF DIRECT CURRENT TO 60% OF EQUIVALENT "RMS" ALTERNATING CURRENT FACTORY TEST VOLTAGE FOR 5 MINUTES.
   B. VARNISHED CAMBRIC, PAPER, AND OTHER INSULATION SHALL BE TESTED IN THE MANNER DIRECTED BY AND UP TO THE LIMITS RECOMMENDED BY THE MANUFACTURER.
   C. INSULATION RESISTANCE SHALL BE TESTED BY MEGGER OF NOT LESS THAN 600 VOLTS OUTPUT FOR CIRCUITS 480 VOLTS AND LESS. ANY CIRCUIT SHOWING AN INSULATION RESISTANCE OF LESS THAN 1 MΩ SHALL BE INVESTIGATED AND THE WEEK POINT CORRECTED. CORRECT OR REPLACE ANY CIRCUIT DEFECTIVE OR GROUNDED AND MAKE WIRE-BY-WIRE TEST.

25. THE ENTIRE SYSTEM SHALL BE PLACED IN PROPER OPERATING CONDITION.
   A. ALL CHANGES SHALL BE MADE THAT ARE NECESSARY FOR ADJUSTING, SETTING AND BALANCING.
   B. GROUND TESTS SHALL BE MADE WITH THE 3 ELECTRODE "AC" OR "DC" VOLTAGE DROP METHOD TO ESTABLISH INITIAL READINGS FOR RECORDS, AND TO ASCERTAIN THAT THEY MEET DESIGN AND CODE REQUIREMENTS.
   C. CONTROL CIRCUITS SHALL BE CHECKED OUT FOR PROPER

26. ELECTRICAL COMPONENT ANCHORAGE NOTE
   ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26 AND 30.
   A. ALL PERMANENT EQUIPMENT AND COMPONENTS.
   B. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
   C. MOVABLE EQUIPMENT THAT IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS IS REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

   THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT.
   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

   FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

   ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

   ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1615A.1.23, 1615A.1.24, 1615A.1.25, AND 1615A.1.26.

   THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #).

   COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE ELECTRICAL DISTRIBUTION SYSTEMS.

   THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

27. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE REGULATION (C.C.R).

28. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE APPROVED BY DSA, AS REQUIRED BY SEC 4-338, PART 1, TITLE 24, C.C.R.

29. A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART1, TITLE 24, C.C.R).

30. A DSA INSPECTOR WITH MINIMUM CLASS 3 CERTIFICATION OR AS SHOWN ON ON ARCHITECTURAL DRAWINGS IS REQUIRED FOR THIS PROJECT. SEE ARCHITECTURAL DRAWWINGS.

31. A DSA ACCEPTED TESTING LAB DIRECTLY EMPLOYED BY THE SCHOOL DISTRICT SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THIS PROJECT.

32. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK. SECTION 4-317, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, C.C.R).

33. ALL NEW ROOF/ CANOPY CONDUITS SHALL BE SUPPORTED USING COOPER B-LINE DURA-BLOK ROOFTOP SUPPORT SYSTEM.

34. SEE DETAIL E402 FOR ELECTRICAL DEVICE MOUNTING HEIGHTS.

GENERAL NOTES

1. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHALL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.

2. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.

3. THE FOLLOWING GENERAL NOTES ARE APPLICABLE AS STATED BELOW, EXCEPT WHERE SPECIFICALLY INDICATED AND NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION REQUIREMENTS AND SCOPE OF WORK.

4. DEVICE LOCATIONS, ELEVATIONS, RISER DIAGRAMS, SCHEMATICS AND DETAILS SHOWN ON PLANS ARE CONCEPTUAL AND ILLUSTRATE ONLY THE FUNCTIONAL RELATIONSHIPS BETWEEN COMPONENTS OF THE SYSTEM AND THE DESIGN INTENT OF THE PROJECT. CONTRACTOR SHALL INSTALL DEVICES AS SITE CONDITIONS REQUIRE AND AS APPROVED BY THE IOR.

5. PROVIDE ADDITIONAL BOXES AND ADAPTER PLATES AS REQUIRED FOR ALL SURFACE MOUNTED DEVICES. USE SURFACE MOUNTED WIREMOLD IN AREA WHERE NO ACCESSIBLE CEILING SPACE IS AVAILABLE.

6. ALLOW FOR RELOCATION OF DEVICES WITHIN THE SAME ROOM WHERE OBSTRUCTION ARE ENCOUNTERED (PROJECTOR SCRENES/EDUCATIONAL MATERIALS) THAT WILL PREVENT INSTALLING FIRE ALARM AND MASS NOTIFICATION DEVICES (STROBE, SPEAKER/STROBE) IN THE LOCATIONS SHOWN ON PLANS, SUBJECT TO REQUIRED DEVICE COVERAGE. DOOR DETAILS ILLUSTRATE FUNCTIONAL RELATIONSHIPS, ACTUAL ARCHITECTURAL CONDITIONS (DIRECTION OF SWING, HAND OF DOOR) MAY VARY AND SHALL BE FIELD VERIFIED.

7. DOOR DETAILS ILLUSTRATE FUNCTIONAL RELATIONSHIPS, ACTUAL ARCHITECTURAL CONDITIONS (DIRECTION OF SWING, HAND OF DOOR) MAY VARY AND SHALL BE FIELD VERIFIED.

8. ANY FIELD CONDITION MISREPRESENTED IN THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ENGINEER OF THE PROJECT.

9. ANY DEVIATION FROM THESE PLANS NECESSARY DUE TO FIELD CONDITIONS MUST BE APPROVED BY DSA AND THE ENGINEER OF THE PROJECT. DETAILED AND RECORDED ON FIELD "AS-BUILT" DRAWINGS.

10. ALL DEVICES IN THE FIRE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED TO MANUFACTURER'S SPECIFICATION, AND SHALL ALSO BE INSTALLED IN COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF CURRENT TITLE 24, PART 9, CFC CHAPTER 9, CEC ARTICLE 760, AND NFPA 72, 2016 EDITION WITH CALIFORNIA AMENDMENT.

11. WORKMANSHIP AND MATERIALS SHALL CONFORM TO MOST CURRENT CALIFORNIA BUILDING CODE (CBC) STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AS FURNISHED BY THE CONTRACT DRAWINGS. WORKMANSHIP AND MATERIALS NOT IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE SUBJECT TO REMOVAL AND/OR REPLACEMENT AT CONTRACTOR'S EXPENSE.

12. CONTRACTOR TO PROVIDE ALL NECESSARY COMPONENTS WHETHER SHOWN OR NOT ON THE DRAWINGS OR SPECIFIED ON THE CONTRACT TO MAKE THE FIRE ALARM SYSTEM FUNCTIONALLY OPERATIVE AND ACCEPTABLE TO ALL CONCERNED AUTHORITIES.

13. PROVIDE ALL PATCHING, PAINTING AND FINISHES, INCLUDING BUT NOT LIMITED TO CEILING/WALL TILE REPLACEMENT, GYP BOARD ETC., FOR ALL DEVICES LOCATED IN EXISTING AREAS TO RESTORE TO ORIGINAL CONDITIONS AND MUST BE APPROVED AND COORDINATED WITH THE DISTRICT. EXISTING CONDITIONS SHALL BE DOCUMENTED WITH DIGITAL PHOTOGRAPHY PRIOR TO START OF WORK AND DELIVERED TO DISTRICT.

14. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.

15. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, INSTALLING CONTRACTOR SHALL SUBMIT STATEMENT OF COMPLIANCE AND REQUEST FINAL INSPECTION. PER CFC 901.2.1. A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR AND DISTRICT PERSONNEL.

16. DSA, I.O.R., ENGINEER AND OWNER (SCHOOL DISTRICT) SHALL BE NOTIFIED A MINIMUM OF 48 HR. PRIOR TO THE FINAL INSPECTION AND/OR TESTING.

17. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION, TESTING ALL DEVICES AND APPLIANCES PER NFPA 72, FIGURE 10.18.2.1.1, AND SYSTEM PROGRAMING FOR SUPERVISORY MONITORING PER CBC, SECTION 901.6.2. PROVIDE A COPY OF THE COMPLETED RECORD OF COMPLETION TO DSA, ENGINEER, OWNER, AND LOCAL FIRE AUTHORITY VIA THE PROJECT INSPECTOR.

18. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE ALARM SYSTEM MONITORING CONTRACT OR PROVISIONS.

19. EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED UNTIL NEW FIRE ALARM HAS BEEN INSTALLED AND TESTED. UNLESS FIRE WATCH IS PROVIDED.

20. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL BE IN COMPLIANCE WITH CFC 2016, CHAPTER 9, 11 AND 33 & CBC 2016, CHAPTER 33. PROVIDE FIRE WATCH UNTIL THE NEW SYSTEM IS IN OPERATION AND APPROVED BY I.O.R., DSA, LOCAL FIRE AUTHORITY, AND DISTRICT.

21. PROVIDE FIRE STOPPING AND CAULKING TO MAINTAIN INTEGRITY OF THE EXISTING RATING.

22. ALL WORK SHALL CONFORM TO 2016 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS. TITLE 24 C.C.R., PARTS 1-5 MUST BE KEPT ON SITE DURING CONSTRUCTION.

23. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

24. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).

25. A "DSA CERTIFIED" INSPECTOR WITH CLASS (3) CERTIFICATION IS REQUIRED FOR THIS PROJECT.

26. AN INSPECTOR WHO IS SPECIALLY QUALIFIED IN MECHANICAL AND ELECTRICAL WORK WILL BE REQUIRED FOR THIS PROJECT. OR INDICATE NAME OF MECHANICAL AND ELECTRICAL ENGINEERS ON LINE 25b AND 25c OF PROJECT APPLICATION (DSA-1).

27. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHERE IN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK. SECTION 4-317, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, C.C.R).

LIST OF CALIFORNIA CODE OF REGULATIONS (C.C.R.)

APPLICABLE CODES AS OF JANUARY 1, 2017

TITLE 24 C.C.R., PART1 2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE.
TITLE 24 C.C.R., PART2 2016 CALIFORNIA BUILDING CODE (CBC)
(2015 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH CALIFORNIA AMENDMENTS)
TITLE 24 C.C.R., PART3 2016 CALIFORNIA ELECTRICAL CODE (CEC)
(2014 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)
TITLE 24 C.C.R., PART4 2016 CALIFORNIA MECHANICAL CODE (CMC)
(2015 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
TITLE 24 C.C.R., PART5 2016 CALIFORNIA PLUMBING CODE (CPC)
(2015 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
TITLE 24 C.C.R., PART6 2016 CALIFORNIA ENERGY CODE
TITLE 24 C.C.R., PART7 (NO LONGER PUBLISHED IN TITLE 24. SEE TITLE 8, CCR)
TITLE 24 C.C.R., PART8 2016 CALIFORNIA HISTORICAL BUILDING CODE
TITLE 24 C.C.R., PART9 2016 CALIFORNIA FIRE CODE (CFC)
(2015 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL)
TITLE 24 C.C.R., PART10 2016 CALIFORNIA EXISTING BUILDING CODE
(2015 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL, WITH AMENDMENTS)
TITLE 24 C.C.R., PART11 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE)
TITLE 24 C.C.R., PART12 2016 CALIFORNIA REFERENCED STANDARDS CODE
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

FIRE ALARM NOTES

1. ALL WIRING SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MINOR AS DEDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. CONDUIT FILL SHALL BE PER TABLE 3B OF ELECTRICAL CODE. PROVIDE PVC SCHEDULE 40 FOR CONDUITS UNDERGROUND, EMT CONDUIT FOR INTERIOR EXPOSED AREAS, AND GALVANIZED RIGID STEEL FOR EXPOSED EXTERIOR AREAS. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE APPROVED FOR WET LOCATIONS.

2. MINIMUM CONDUIT SIZE SHALL BE 3/4" UON CONTRACTOR TO ADJUST SIZE FOR FIELD CONDITIONS (I.E. NO. OF BENDS, ETC.) BUT SHALL NOT BE SMALLER THAN 3/4". MAXIMUM CONDUIT SIZE SHALL BE 2"

3. FIRE ALARM JUNCTION BOX COVER SHALL BE PAINTED RED AND LABELED "FIRE ALARM". ALL FIRE ALARM CONDUITS SHALL HAVE A RED STRIPE EVERY 10FT.

4. ALL FIRE ALARM WIRING SHALL BE FIRE POWER LIMIT OR FIRE POWER LIMITED PLENUM AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE UNDERGROUND MAY BE THHN OR THWN. CONDUIT FILL SHALL BE PER TABLE 3B OF ELECTRICAL CODE

5. ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECT DIRECTLY TO EACH FIRE ALARM DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6 FT OF LEAD WIRE FROM BOX TO THE DEVICE. ALL BOX TO BE SIZED PER CEC. WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT FOR IN AND OUT AT DEVICE JUNCTION BOX.

6. POINT AND COMMON ANNUNCIATION AND T-TAPPING PROHIBITED. (EXCEPT WITH ADDRESSABLE CLASS B DEVICES)

7. ALL WIRING, INITIATING DEVICE AND ANNUNCIATOR PANEL SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION (FIRE ALARM PANEL TO SUPERVISE THE ANNUNCIATOR PANEL, ALL CIRCUITS AND INITIATING DEVICES).

8. ALL PENETRATIONS OF FIRE-RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER LAB TESTING CRITERIA. APPROVE TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN A FIRE ALARM SECTION. INSTALLATION AND APPLICATION, PER MANUFACTURER'S INSTRUCTIONS. REFER TO FIRE ALARM DETAIL DRAWING THROUGH-PENETRATION FIRE STOPPING FOR ALL FIRE RATED WALLS.

9. CONDUIT AND JUNCTION BOXES ARE NOT TO BE USED FOR UNRELATED WIRING.

10. ALL TERMINATION ON MAIN PULL BOXES AND TERMINAL CABINETS SHALL BE ON BOX MOUNTED TERMINAL BLOCKS

11. THE FIRE ALARM CONTROL PANEL IS NOT TO BE USED AS A TERMINAL CABINET. PROVIDE SEPARATE TERMINAL CABINET.

12. FIRE ALARM LOCKED PANEL SHALL BE ACCESSIBLE ONLY TO FIRE DEPT. PERSONNEL, AUTHORIZED MAINTENANCE PERSONNEL AND SHALL BE MARKED "FIRE ALARM CONTROL PANEL".

13. PROVIDE SIGNAGE "FIRE ALARM CONTROL PANEL INSIDE" ON DOORS OF THE ROOM WHERE FACP/FCPS IS LOCATED TO INDICATE LOCATION OF FACP/FCPS. PROVIDE SIGNAGE AT THE INSPECTORS TEST VALVE, RISER, AND SUPERVISORY DEVICE INDICATING THAT THE FIRE SPRINKLER SYSTEM IS BEING MONITORED. THE LOCATION OF THE INSPECTORS TEST IS TO BE LABELED ON THE INTERIOR OF THE FACP DOOR.

14. BATTERIES ARE TO BE LABELED WITH THE MONTH AND YEAR OF INSTALLATION.

15. FIRE ALARM PANEL, REMOTE ANNUNCIATOR, AND COMPONENTS SHALL BE SECURE TO MOUNTING SURFACE PER MANUFACTURES SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.

16. All ELECTRICAL CONTROLS AND SWITCHES SHALL BE INSTALLED NO MORE THAN +48" ABOVE FINISH FLOOR FROM THE TOP OF THE OUTLET BOX AND NO LESS THAN +15" ABOVE FINISH FLOOR FROM THE BOTTOM OF THE OUTLET BOX, PER CBC 11B-308.

17. FIRE ALARM EQUIPMENTS AND POWER SUPPLIES SHALL BE CONNECTED TO A DEDICATED 120 V CIRCUIT. CIRCUIT BREAKER SHALL MATCH BY TYPE/STYLE/AIC RATING. PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, IDENTIFIED AS "FIRE ALARM CIRCUIT", AND LOCATION OF CIRCUIT BREAKER PERMANENTLY IDENTIFIED AT FIRE ALARM CONTROL UNIT IN COMPLIANCE WITH NFPA 72, 10.6.5.2.

18. ALL EQUIPMENT, I.E. AUTOMATIC DETECTION DEVICES, MANUAL PULL STATIONS, AUDIO/VISUAL DEVICES, DUCT DETECTORS, ETC., SHALL BE INSTALLED AND LOCATED IN ACCORDANCE WITH LISTINGS AND APPLICABLE PROVISIONS OF TITLE 24, PARTS 2,3,4 & 9 STANDARDS. ALL EXTERIOR DEVICES SHALL BE LISTED FOR OUTDOOR USE AND MOUNTED IN APPROVED WEATHERPROOF BOXES AND IN ACCORDANCE WITH TITLE 19, CHAPTER 1.5, ARTICLE 1, SECTION 200.

19. ALARM SIGNALS SHALL BE DISTINCTIVE FROM ANY OTHER SIGNAL AND SHALL NOT BE USED FOR ANY OTHER PURPOSE. (NFPA 72, 2016 EDITION) SUPERVISORY SIGNALS AND TROUBLE SIGNALS SHALL ACTIVATE THE SAME SOUND AT THE CONTROL PANEL AND WILL BE DISTINCTIVELY ANNUNCIATED ON THE LCD DISPLAY OF THE CONTROL UNIT (AND REMOTE ANNUNCIATOR WHERE PROVIDED) THE GAMEWELL (FCI) PANELS HAVE SEPARATE DISPLAY QUEUES FOR ALARM, SUPERVISORY AND TROUBLE. (NFPA 72, 2016 EDITION)

20. THE FIRE ALARM SYSTEM SHALL BE ADDRESSABLE TYPE FOR GAMEWELL (FCI) FIRE ALARM SYSTEM AND COMPONENTS. EACH INITIATING DEVICE SHALL BE INDIVIDUALLY ANNUNCIATED AS ONE ADDRESS.

21. AUDIBLE NOTIFICATION APPLIANCES SHALL HAVE SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5 FT ABOVE THE FLOOR IN THE AREA REQUIRED TO BE SERVED BY THE SYSTEM USING THE A-WEIGHTED SCALE (dBA). BUT NOT LESS THAN 75 dBA AT 10 FT, THROUGHOUT AREA OF ALARM. ACCORDANCE WITH CFC 907.5.2.1.1 AND NFPA 72, 18.4 WITH CALIFORNIA AMENDMENTS.

22. THE ALARM AUDIBLE SIGNAL PATTERN SHALL BE THE STANDARD ALARM EVACUATION SIGNAL CONSISTING OF THREE-PULSE TEMPORAL PATTERN. (NFPA 72, 18.4.2.1)

23. VOICE EVACUATION MESSAGES SHALL BE INSTALLED PER NFPA 72, 2016 EDITION, 24.4.2.2. (18.4.10.2.1, UNLESS SPECIFICALLY SHOWN INTELLIGIBILITY SHALL NOT BE REQUIRED: PRIVATE BATHROOMS, MECHANICAL/ELECTRICAL/ELEVATOR EQUIPMENT ROOMS, INDIVIDUAL OFFICES, KITCHENS, STORAGE ROOMS, CLOSETS, AND ROOMS/AREAS WHERE INTELLIGIBILITY CANNOT REASONABLY BE PREDICTED)

24. WALL MOUNTED AUDIBLE NOTIFICATION APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOOR AT HEIGHTS OF NOT LESS THAN 90" (MAXIMUM 100") AND BELOW THE FINISHED CEILINGS AT DISTANCE OF NOT LESS THAN 6". (NFPA 72, 18.4.8)

25. WALL MOUNTED VISIBLE NOTIFICATION APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE THE FINISH FLOOR. WHERE LOW CEILING HEIGHTS DO NOT PERMIT MOUNTING AT A MINIMUM 80", APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING. (NFPA 72, 18.5.5)

26. VISIBLE NOTIFICATION APPLIANCES SHALL BE RATED NOT LESS THAN 15 CD AND SHALL NOT EXCEED TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH PER SECOND. (NFPA 72, 18.5.5). WHERE THERE ARE MORE THAN TWO APPLIANCES IN A FIELD OF VIEW, THEY NEED TO BE SYNCHRONIZED.
   IN ROOMS: VISIBLE NOTIFICATION APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, 18.5.5.4, EITHER TABLE 18.5.5.4.1(A) OR TABLE 18.5.5.4.1(B).
   IN CORRIDORS: VISIBLE NOTIFICATION APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72, 18.5.5.5. VISIBLE NOTIFICATION APPLIANCES SHALL BE LOCATED NOT MORE THAN 15 FT FROM THE END OF THE CORRIDOR WITH SEPARATION NOT GREATER THAN 100 FT BETWEEN APPLIANCES.

27. ALL AREAS REQUIRED TO BE "STROBE" MUST HAVE A DIRECTION LINE OF SIGHT TO AT LEAST ONE STROBE LIGHT.

28. THE OPERABLE PART OF A MANUALLY ACCURATE ALARM-INITIATING DEVICE SHALL BE NOT LESS THAN 42"AFF AND NOT MORE THAN 48"AFF. (NFPA72, 17.14.5)

29. DETECTOR LOCATIONS ARE BASED ON SMOOTH CEILING. ALL POINT ON THE CEILING SHALL HAVE A DETECTOR WITHIN A DISTANCE EQUAL TO OR LESS THAN 0.7 TIMES THE LISTED SPACING. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND INSTALL ACCORDINGLY.
   a. SPACING FOR HEAT DETECTOR (ATTIC) SHALL BE INSTALLED MAXIMUM 35 FT RADIUS SPACING (NON-PLENUM/NON-SPRINKLER).
   b. SPACING FOR SMOKE DETECTORS SHALL BE INSTALLED MAXIMUM 21 FT RADIUS SPACING.

30. SMOKE DETECTOR SHALL NOT BE ANY CLOSER THAN 12" FROM FIRE SPRINKLER/LIGHTING FIXTURE OR 36" FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURN OVER TO THE OWNER.

31. OPERATION OF NON-FIRE SYSTEM FUNCTION(S) ORIGINATING WITHIN A CONNECTED NON-FIRE SYSTEM SHALL NOT INTERFERE WITH THE REQUIRED OPERATION OF FIRE ALARM SYSTEM UNLESS OTHERWISE PERMITTED BY NFPA.

32. SHORT CIRCUITS, OPEN CIRCUITS, OR GROUNDS IN THE EQUIPMENT OR BETWEEN THIS EQUIPMENT AND THE FIRE ALARM SYSTEM WIRING SHALL NOT INTERFERE WITH THE MONITORING FOR INTEGRITY OF THE FIRE ALARM SYSTEM OR PREVENT ALARM, SUPERVISORY, OR FIRE SAFETY CONTROL SIGNAL TRANSMISSIONS.

33. ALL NON-FIRE ALARM COMPONENTS OF A COMBINATION SYSTEM SHALL BE LISTED FOR FIRE ALARM USE UNLESS REMOVAL, REPLACEMENT, FAILURE, OR MAINTENANCE PROCEDURE ON ANY NON-FIRE ALARM HARDWARE, SOFTWARE, OR CIRCUITS DOSE NOT IMPAIR THE REQUIRED OPERATION OF THE FIRE ALARM SYSTEM.

34. IN COMBINATION SYSTEMS, FIRE ALARM SIGNALS SHALL BE DISTINCTIVE, CLEARLY RECOGNIZABLE, AND, WITH WITH THE EXCEPTION OF MASS NOTIFICATION INPUTS, TAKE PRECEDENCE OVER ANY OTHER SIGNAL EVEN WHEN A NON-FIRE ALARM SIGNAL IS INITIATED FIRST AND SHALL BE INDICATED AS FOLLOWS IN DESCENDING ORDER OF PRIORITY UNLESS OTHERWISE PERMITTED BY THIS CODE:
   1) SIGNALS ASSOCIATED WITH LIFE SAFETY
   2) SIGNALS ASSOCIATED WITH PROPERTY PROTECTION
   3) TROUBLE SIGNALS ASSOCIATED WITH LIFE AND/OR PROPERTY PROTECTION
   4) ALL OTHER SIGNALS

35. LIVE VOICE INSTRUCTIONS ORIGINATING FROM THE PROTECTED PREMISES FIRE OR MASS NOTIFICATION SYSTEMS SHALL OVERRIDE ALL PREVIOUSLY INITIATED SIGNALS AND SHALL HAVE PRIORITY OVER BOTH OF THE FOLLOWING;
   1) ANY SUBSEQUENT AUTOMATICALLY INITIATED SIGNALS ON THAT CHANNEL
   2) REMOTELY GENERATED MASS NOTIFICATION MESSAGE

36. PROVIDE HVAC/AIR HANDLING UNIT SHUT DOWN UPON ACTIVATION OF AREA/DUCT SMOKE DETECTION SYSTEM INCLUDING ANY DAMPER, FAN CONTROL WIRING.

37. PROVIDE CONNECTION TO FIRE SUPPRESSION SYSTEM (ANSUL) INCLUDING POWER AND FIRE ALARM SYSTEM MONITORING AND SHUT DOWN FUNCTIONS.

38. PROVIDE ACCESS PANEL WHERE REQUIRED TO ACCESS ATTIC HEAT DETECTORS.

39. THE ACCESSIBLE PORTION OF ABANDON FIRE ALARM CABLES SHALL BE REMOVED (2016 CEC, 760.25)

PARTIAL LIST OF APPLICABLE STANDARDS

2016 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

NFPA 13	SPRINKLER SYSTEMS	2016 EDITION
NFPA 14	STANDPIPE AND HOSE SYSTEMS	2013 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2013 EDITION
NFPA 20	STATIONARY PUMPS FOR FIRE PROTECTION	2016 EDITION
NFPA 22	WATER TANKS OF PRIVATE FIRE PROTECTION	2013 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES	2016 EDITION
NFPA 70	NATIONAL ELECTRICAL CODE	2014 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE	2016 EDITION
NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 EDITION
NFPA 92	SMOKE CONTROL SYSTEMS	2015 EDITION
NFPA 101	LIFE SAFETY CODE	2015 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION
ICC 300	BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRAND STANDS	2012 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION	2005 EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS	2016 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION

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ECDC311	FIRE ALARM DEMOLITION CHILD DEVELOPMENT CENTER (CDC) FLOOR PLAN		

DEMOLITION NOTES

1. REFER TO HVAC/PLUMBING DRAWINGS FOR DEMOLITION OF EQUIPMENT AND DEVICES. DISCONNECT AND REMOVE ALL ELECTRICAL ITEMS INCLUDING POWER CONNECTIONS, DISCONNECTS AND CONTROLS FOR TOTAL DEMOLITION, AS INDICATED ON HVAC/PLUMBING DRAWINGS. BRANCH CIRCUIT/FEEDER, CONDUITS (EXPOSED) TO EQUIPMENT SHALL BE COMPLETELY REMOVED, ALONG WITH CONDUITS BACK TO SOURCE. LABEL BREAKERS AS SPARES AT SOURCE.

2. BEFORE COMMENCING DEMOLITION WORK, THE CONTRACTOR SHALL REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND WORKING DRAWINGS AND FIELD VERIFY ALL EXISTING CONDITIONS AND ANY QUESTIONABLE WORK ASSOCIATED WITH DISCONNECTING AND/OR REMOVAL OF EXISTING FIRE ALARM DEVICES AND EQUIPMENT SHOWN FOR DEMOLITION; COORDINATE DEMOLITION WORK WITH CONSTRUCTION SCHEDULE.

3. CONTRACTOR SHALL NOTIFY THE DISTRICT, CONSTRUCTION MANAGER AND ENGINEER IMMEDIATELY WHEREVER REMOVAL OF EXISTING CONDUIT AND/OR EQUIPMENT WILL INTERFERE WITH EQUIPMENT THAT IS TO REMAIN OR INTERFERE WITH THE NEW EQUIPMENT INSTALLATION. IN SUCH SITUATIONS CONTRACTOR SHALL EXTEND PATHWAYS AND WIRING TO MATCH EXISTING BY TYPE & SIZE TO PROVIDE OPERABLE SYSTEM.

4. THESE DRAWINGS INDICATE EXISTING CONDITIONS WHICH WERE TAKEN FROM RECORD DRAWINGS/FIELD VISUAL VERIFICATIONS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THESE CONDITIONS. THE CONTRACTOR SHALL VERIFY AND INVESTIGATE ALL EXISTING FIELD CONDITIONS AND EXERCISE CAUTION IN THE DEMOLITION PROCESS, AND PROMPTLY NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES ENCOUNTERED.

5. EXISTING DEVICES AND EQUIPMENT NOT INDICATED TO BE REMOVED OR ABANDONED ARE TO REMAIN IN USE, PER PROVISIONS OF CFC SECTION 104.7.1. EXCEPT FOR SHORT DESIGNATED INTERVALS DURING WHICH CONNECTIONS ARE MADE, SHUT-DOWN TIME OF THE EXISTING ELECTRICAL EQUIPMENT SHALL BE AT A TIME CONVENIENT AND AGREEABLE TO THE DISTRICT. EXISTING EQUIPMENT REMOVED FOR PROTECTION SHALL BE PLACED BACK TO ITS ORIGINAL LOCATION. EXISTING EQUIPMENT DAMAGED DURING THE PROCESS SHALL BE REPAIRED AND/OR REPLACED AS REQUIRED TO MAINTAIN A COMPLETE AND OPERABLE SYSTEM. NO ADDITIONAL CHARGES WILL BE ALLOWED FOR REPAIRING, REPLACING AND/OR RECONNECTING THE EXISTING SYSTEM DISTURBED DURING CONSTRUCTION.

6. UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL DEVICES ASSOCIATED WITH THE EXISTING EQUIPMENT BEING REMOVED.

7. THE CONTRACTOR, ACCOMPANIED BY THE DISTRICT, SHALL TAKE INVENTORY OF THE EXISTING MATERIAL AND EQUIPMENT. ALL MATERIAL AND EQUIPMENT WHICH ARE SELECTED BY THE DISTRICT FOR SALVAGE SHALL REMAIN THE PROPERTY OF THE DISTRICT. THE CONTRACTOR SHALL DELIVER SUCH SALVAGED EQUIPMENT AND MATERIAL TO THE LOCATION(S) CHOSEN BY THE DISTRICT. THE EQUIPMENT AND DEVICES SHALL BE NEATLY PILED, STORED AND PROTECTED FROM DAMAGE. ALL MATERIAL AND EQUIPMENT NOT SELECTED BY THE DISTRICT SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM PREMISES, AND DISPOSED OF.

8. COORDINATE ALL DEMOLITION WITH THE NEW REQUIREMENTS TO ASSURE THAT NEW INSTALLED SYSTEM IS COMPLETE AND OPERABLE.

9. CAREFULLY PROTECT ALL EXISTING WALLS, TRIM, FLOORS, EQUIPMENT, UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES LIMIT DAMAGE TO THE CONFINED SPACE AND RESTORE TO ORIGINAL CONDITION.

10. THE PATCHING AND PAINTING OF FLOORS, WALLS, CEILINGS, ETC SHALL MATCH EXISTING FINISHES.

11. PRIOR APPROVAL MUST BE OBTAINED FROM THE ENGINEER BEFORE NOTCHING, CORING AND/OR CUTTING OF EXISTING STRUCTURE IS DONE.

12. CONTRACTOR TO REMOVE ALL FIRE ALARM & ASSOCIATED CONDUIT & WIRING IN THE WAY OF SCOPE OF NEW WORK. CONTRACTOR TO DISPOSE OF ALL REMOVED DEVICES AND EQUIPMENT.

13. PROVIDE BLANK COVER PLATES TO REMOVED DEVICES. COLOR WHITE OR AS SELECTED BY DISTRICT. TYPICAL U.O.N.

14. ALL REMOVED EQUIPMENT SHALL BE DISPOSED OF BY CONTRACTOR UNLESS OTHERWISE SALVAGED AS DIRECTED BY DISTRICT.

15. ALL EXISTING FIRE ALARM DEVICES, CONTROL PANEL AND RELATED EQUIPMENT SHALL BE REMOVED, INCLUDING ALL CONDUIT, WIRING, DEVICES. PROVIDE BLANK COVER PLATES TO REMOVED DEVICES, COLOR AS SELECTED BY ARCHITECT. EXISTING SYSTEM SHALL REMAIN IN PLACE AND OPERATIONAL UNTIL NEW SYSTEM IS OPERATIONAL, TESTED, AND ACCEPTED BY THE IOR AND THE DISTRICT. THE NEW FACP, FIRE ALARM LOOP WITH NEW CABLE SHALL BE CONNECTED AND CONFIGURED AND PROGRAMMED, SEE FIRE ALARM DRAWINGS AND SPECIFICATIONS.

16. THE NEW FIRE ALARM AND EMERGENCY VOICE/ALARM COMMUNICATION (EVAC) SYSTEM, FIRE ALARM LOOP WITH NEW CABLE SHALL BE CONNECTED AND CONFIGURED AND PROGRAMMED, INSTALLED PER FIRE ALARM DRAWINGS AND SPECIFICATIONS.

17. THE PROVISIONS OF CFC 2016, CHAPTER 9, 11 AND 33 & CBC 2016, CHAPTER 33 SHALL BE ENFORCED ON THIS PROJECT.

18. PROVIDE FIRE WATCH PER CFC 901.7 SYSTEM OUT OF SERVICE. REFER TO SPECIFICATION SECTION 16721 ATTACHMENT B FOR CSFM FIRE WATCH GUIDE LINE.

ABBREVIATION

AFF	- ABOVE FINISH FLOOR	PNL	- PANEL BOARD
C.O.	- CONDUIT ONLY.	PEC	- PHOTO ELECTRIC CELL
D.P.	- DISTRIBUTION PANEL.	(R)	- RELOCATED
EM	- EMERGENCY.	SA	- SATIN ALUMINUM.
EF	- EXHAUST FAN	SSS	- SATIN STAINLESS STEEL.
(E)	- EXISTING.	TEL	- TELEPHONE
(ER)	- EXISTING DEVICE TO BE REPLACED	TSC	- TIME SWITCH CONTROL.
FA	- FIRE ALARM.	TRANSF	- TRANSFORMER
GND	- GROUND.	TL	- TWIST-LOCK CONSTRUCTION
HP	- HORSEPOWER RATING.	TTB	- TELEPHONE TERMINAL BOARD.
J-BOX	- JUNCTION BOX.	TYP	- TYPICAL.
KA	- KILO AMPERES.	UON	- UNLESS OTHERWISE NOTED.
KW	- KILOWATT.	V	- VOLTS.
KVA	- KILO-VOLT AMPS.	W.P.	- WEATHERPROOF CONSTRUCTION.
LCL	- LONG CONTINUOUS LOAD	WT	- WEATHERTIGHT CONSTRUCTION.
LCP	- LIGHTING CONTROL PANEL	WBE	- WHITE BAKED ENAMEL.
LTG	- LIGHTING.	WPE	- WHITE PORCELAIN ENAMEL.
L.O.	- LUGS ONLY.	(X)	- EXISTING FIRE ALARM DEVICE/EQUIPMENT TO BE REMOVED EXISTING DEVICE MOUNTING BOX AND WIRING MAY BE REUSED AS JUNCTION BOX WHERE POSSIBLE. ELECTRICAL CONTRACTOR TO PROVIDE J-BOX COVER PLATE AND HANGING STRAP TO COMPLY WITH C.E.C., 2001.
LV	- LOW VOLTAGE.		
MH	- MOUNTING HEIGHT (TO BOTTOM OF FIXTURE)		
MC	- MOMENTARY CONTACT ACTION.		
(N)	- NEW		
NEC	- NATIONAL ELECTRICAL CODE.		
NL	- NIGHT LIGHT.	(XR)	- REMOVE RELOCATE AS SHOWN
NIC	- NOT IN CONTRACT	(+)X'-Y"	- MOUNTING HEIGHT (TO CENTER OF DEVICE)
NTS	- NOT TO SCALE.		

ELECTRICAL SYMBOLS LIST

NOTE:
- SYMBOLS REPRESENT EQUIPMENT AND OUTLET BOXES TO WHICH CONDUIT AND WIRE IS RUN FOR CONNECTION TO FIXTURES AND DEVICES.
- NOT ALL SYMBOLS APPLY TO THIS PROJECT; DISREGARD THOSE NOT USED ON PLANS AND IN DETAILS.
- MOUNTING HEIGHTS IN SYMBOL LIST APPLY UNLESS OTHERWISE NOTED ON DRAWINGS.

DUPLEX RECEPTACLE, WEATHER PROOF, WITH GROUND FAULT INTERRUPTER, WALL MOUNTED (20 AMP. 120 VOLT, 3W)
J — JUNCTION BOX, WITH COVER (4" SQUARE, DEEP, WITH PLASTER RING)
DUPLEX RECEPTACLE, WALL MOUNTED, GROUNDING TYPE (20 AMP, 120 VOLT, COVER PLATE SPECIFIED)
DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED, GROUNDING TYPE (20 AMP, 120 VOLT, COVER PLATE SPECIFIED)
ELECTRICAL PANEL, FLUSH WALL MOUNTED
ELECTRICAL PANEL, SURFACE WALL MOUNTED
FUSED DISCONNECT SWITCH, MANUAL EXO, H.P. RATED (FUSE AND SWITCH SIZE AS INDICATED)
S^M — SWITCH, MOTOR RATED, S.P.S.T.
S^M_{2P} — SWITCH, MOTOR RATED, D.P.S.T.
MOTOR STARTER
FACP — FIRE ALARM CONTROL PANEL
EVAC — EMERGENCY EVACUATION SYSTEM (INTELLIGENT NETWORK TRANSPONDER)
FCPS — FIRE ALARM REMOTE POWER SUPPLIES
FATC — FIRE ALARM TERMINAL CABINET
ANN — ANNUNCIATOR
FSD — FIRE SMOKE DAMPER
FSCP — UL 300 LISTED FIRE SUPPRESSION SYSTEM
ALSIG — ASSISTIVE LISTENING SIGNAGE
F — FIRE ALARM PULL STATION
SD — SMOKE DETECTOR
HD — HEAT DETECTOR
HD A — HEAT ATTIC DETECTOR
CD CO — COMBINATION SMOKE/HEAT DETECTOR WITH CO SENSOR
MULTI CANDELA STROBE (15/30/75/110CD), WALL MOUNTED
MULTI CANDELA SPEAKER/STROBE (15/30/75/110CD), WALL MOUNTED
MULTI CANDELA STROBE (15/30/75/95CD), CEILING MOUNTED
MULTI CANDELA SPEAKER/STROBE (15/30/75/95CD), CEILING MOUNTED
H — HORN, WALL MOUNTED
S — EXTERIOR SPEAKER, WEATHERPROOF WALL MOUNTED
M — ADDRESSABLE MONITOR MODULE
C — ADDRESSABLE SUPERVISED CONTROL MODULE
R — ADDRESSABLE RELAY CONTROL MODULE
RIBUIC — MULTI-VOLTAGE RELAY MODULES
B — FIRE ALARM BELL
FS TS — SPRINKLER FLOW
PIV — POST INDICATOR VALVE (PIV)
SRD — SYSTEM RECORD DOCUMENT (SRD) CABINET

CONDUIT FOR CIRCUIT

CONDUIT STUB-UP WITH COUPLING FLUSH IN FLOOR (TO PERMIT FUTURE REMOVAL)
CONDUIT CONCEALED IN OR UNDER FLOOR: OR UNDERGROUND (CONFIRM DEPTH; GRADE TO DRAIN INTO PULL BOXES)
BRANCH CIRCUIT WITH GREEN INSOLATED GROUND CONDUCTOR, SAME SIZE WIRE
3/4" CONDUIT WITH 2#12 WIRES AND 1#12 GND.
3/4" CONDUIT WITH 3#12 WIRES AND 1#12 GND.
3/4" CONDUIT WITH 4#12 WIRES AND 1#12 GND.
3/4" CONDUIT WITH 5#12 WIRES AND 1#12 GND.
3/4" CONDUIT WITH 6#12 WIRES AND 1#12 GND.
(ALL WIRING TO BE CU. THHN INSULATION & GROUND PER NEC 250-122 CONCEALED IN WALL OR CEILING)
#10 — NUMBER INDICATES GAUGE OF WIRE IN CODE SIZED CONDUIT.
C.O. — CONDUIT-ONLY WITH #12 TW COPPER PULL-WIRE (3/4" MINIMUM SIZE, UNLESS NOTED OTHERWISE)
A-1,3 — HOMERUN TO CIRCUITS #1 & #3 IN PANEL "A" (CROSSMARKS INDICATE NUMBER OF WIRES)
GROUND CONNECTION WITH ACCESSIBLE CLAMP (TO COLD WATER PIPE OR DRIVEN GROUND ROD)
STUB CONDUIT
CONDUIT DROPPING DOWN FROM RUN (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)
CONDUIT RISING UP FROM RUN (IF CONDUIT IS USED, KEEP COVER ACCESSIBLE)
END OF LINE FIRE ALARM WIRE
REFER TO SPECIFICATION SECTION 16130, RACEWAYS AND BOXES FOR PERMITTED TYPES OF RACEWAYS.

GENERAL SYMBOLS

1A — NUMBERED NOTE FOR SHEET WHERE SHOWN
A / E1.0 — DETAIL DESIGNATION FOR ITEM & DRAWING NUMBER

NOTES:
1. INITIATING DEVICE CIRCUITS TO BE WIRED CLASS "B".
2. NOTIFICATION DEVICE CIRCUITS TO BE WIRED CLASS "B".

SCOPE OF WORK

1. UPGRADE ELECTRICAL POWER DISTRIBUTION TO EACH BUILDING AND MAIN SERVICE
2. PROVIDE A NEW OR UPGRADED ELECTRICAL FOR NEW HVAC EQUIPMENT
3. NEW FIRE ALARM AND EMERGENCY VOICE/ALARM COMMUNICATION (EVAC) SYSTEM

DSA APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED AS THE CERTIFICATION OF COMPLIANCE FOR THE FOLLOWING BUILDING(S) AS REQUIRED BY THE FIELD ACT, EDUCATION CODE SECTION 17280-17316 AND SECTIONS 81130-81147.

BUILDING NAME	CONSTRUCTION TYPE	OCCUPANCY TYPE	DSA#	LAST CLOSE DATE	CERTIFIED	HVAC SHUT DOWN	SPRINKLER	ELEVATOR
BUILDING "A"	V-B	E	03-112865	3/22/2017	YES, #1	YES	NO	NO
BUILDING "B"	V-B	E	03-112865	3/22/2017	YES, #1	YES	YES	NO
BUILDING "C"	V-B	E	03-112865	3/22/2017	YES, #1	YES	YES	YES
BUILDING "D"	V-B	E	03-112865	3/22/2017	YES, #1	YES	NO	NO
BUILDING "E"	V-B	E	03-112865	3/22/2017	YES, #1	YES	YES	YES
BUILDING "F"	V-B	E	03-112865	3/22/2017	YES, #1	NO	NO	NO
BUILDING "G"	V-B	E	03-112865	3/22/2017	YES, #1	YES	NO	NO
BUILDING "H"	V-B	E	03-112865	3/22/2017	YES, #1	NO	NO	NO
BUILDING "J"	V-B	E	03-112865	3/22/2017	YES, #1	NO	NO	NO
BUILDING "K"	V-B	E	-	-	-	NO	NO	YES
BUILDING "CDC"	V-B	E	-	-	-	NO	YES	NO

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Sheet Title
Electrical Notes and Symbol List

Sheet Number
E001

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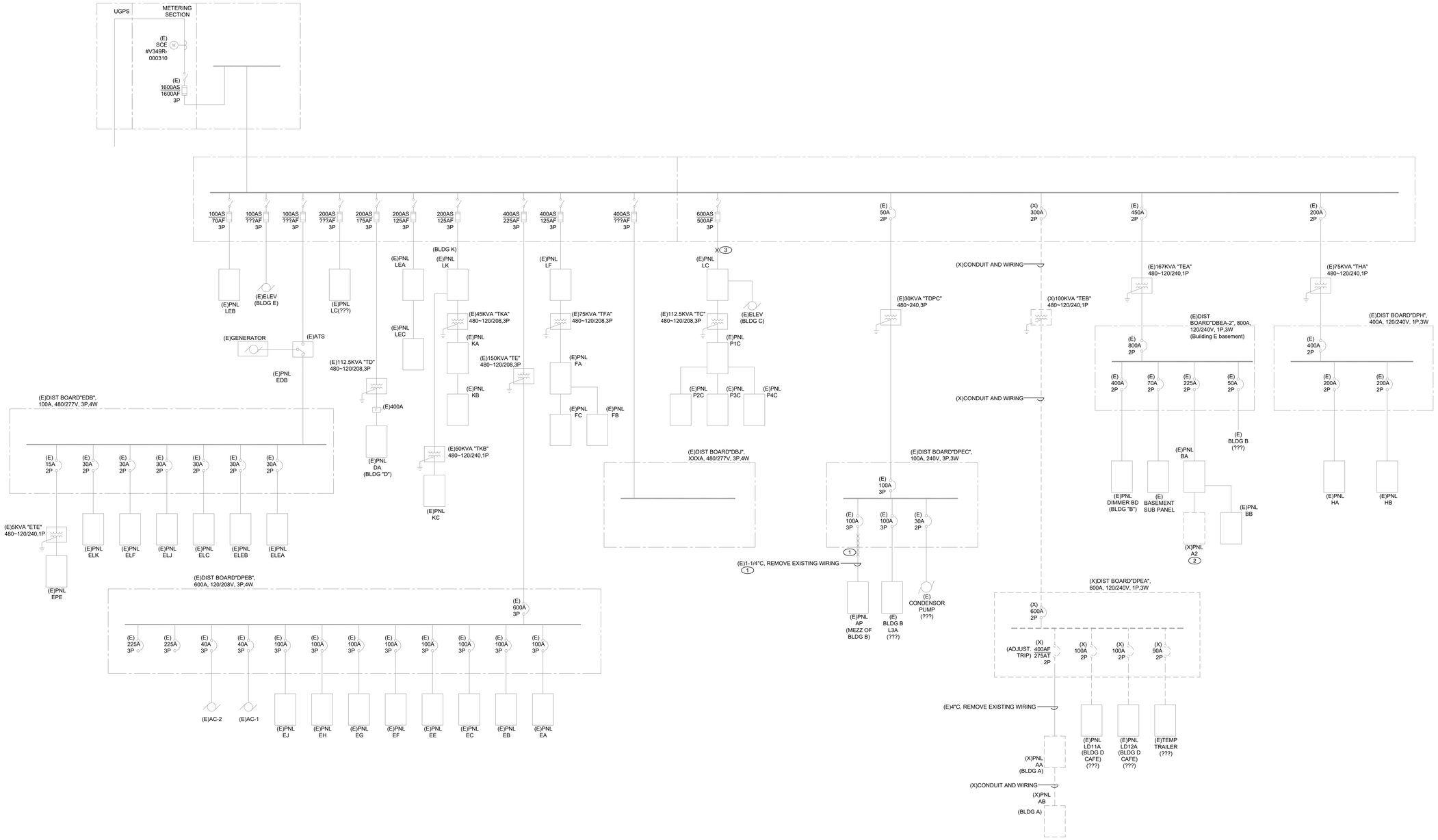

REFERENCE NOTES

1. DISCONNECT (E)FEEDER FROM (E)DIST. BD. "DPEC" IN BASEMENT OF BLDG E, AND EXTEND CONDUIT AND WIRING TO NEW SWITCHBOARD (AS SHOWN ON E003) FOR (E)PATHWAY TO BLDG "B" MEZZANINE.
2. REPLACE (E)PANEL WITH NEW PANEL. SALVAGE (E)CONTROLS IN CABINET SPACE OF PANEL, AND RELOCATE TO NEW PANEL CABINET SPACE. RECONNECT FEEDER AND ALL EXISTING BRANCH CIRCUITS/CONTROL WIRING TO REMAIN.
3. INTERCEPT (E)(2)4"C AND EXTEND TO NEW DISTRIBUTION BOARD AS SHOWN ON SHEET E003. EXISTING WIRING TO PANEL LC MAY BE PULLED BACK AND CONNECTED TO NEW DISTRIBUTION BOARD "HPC" 500A BREAKER. NEW WIRING TO BE PROVIDED FROM MAIN SERVICE "MS" AS SHOWN ON SHEET E003.

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Sheet Title

Electrical Demolition Single Line Diagram

Sheet Number

E002

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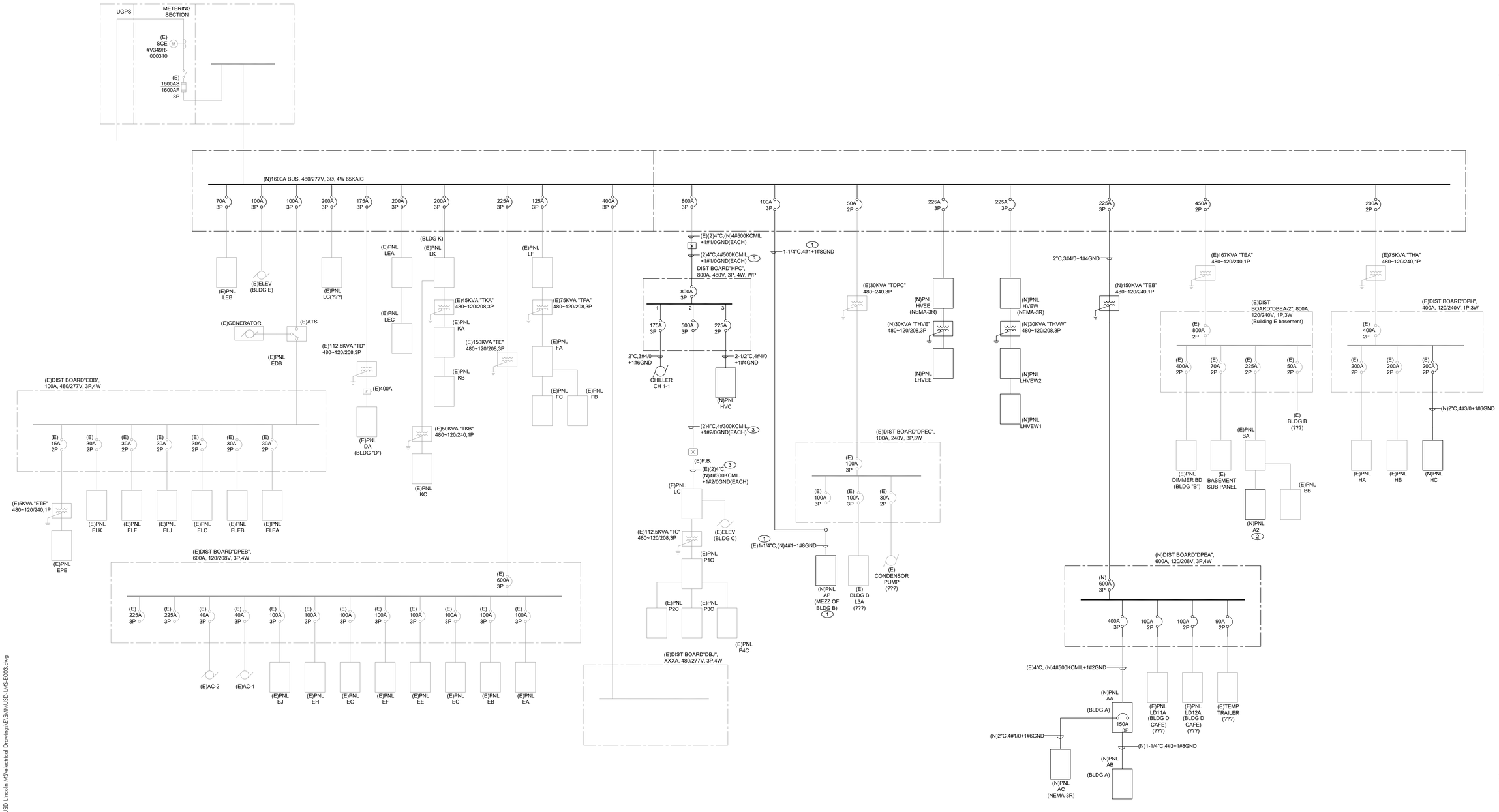

REFERENCE NOTES

1. PROVIDE (N)CONDUIT AND WIRING TO INTERCEPT (E)FEEDER (IN BASEMENT OF BLDG E) TO MEZZANINE OF BLDG B. REPLACE (E)PANEL 240V,3P,3W PANEL "AP" WITH (N)480V,3P,3W PANEL "AP"
2. PROVIDE NEW PANEL WITH CABINET TO SPACE TO MATCH EXISTING PANEL BEING REMOVED. SALVAGE (E)CONTROLS IN CABINET SPACE OF (E)PANEL, AND RELOCATE TO NEW PANEL CABINET SPACE. RECONNECT FEEDER AND ALL EXISTING BRANCH CIRCUITS/CONTROL WIRING TO REMAIN.
3. INTERCEPT (E)(2)4"C AND EXTEND TO NEW DISTRIBUTION BOARD "HPC". EXISTING WIRING TO PANEL LC MAY BE PULLED BACK AND CONNECTED TO NEW DISTRIBUTION BOARD "HPC" 500A BREAKER. NEW WIRING TO BE PROVIDED FROM MAIN SERVICE "MS" AS SHOWN.

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Sheet Title

Electrical
New Single Line
Diagram

Sheet Number

E003

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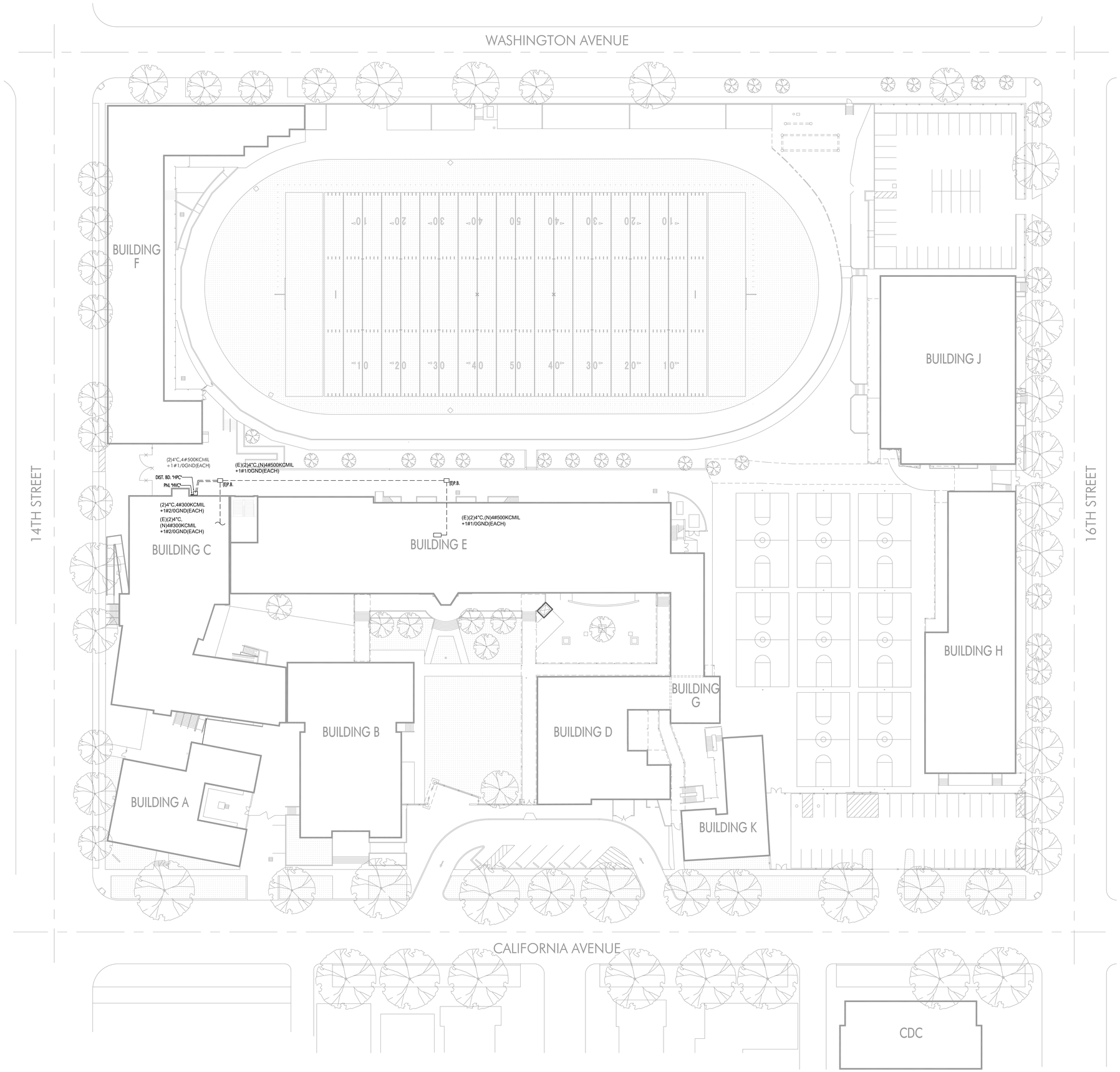

1 OVERALL SITE PLAN

SCALE: 1" = 30'-0"

0' 15' 30' 60' 120'

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Sheet Title

Electrical
Site Plan

Sheet Number

E111

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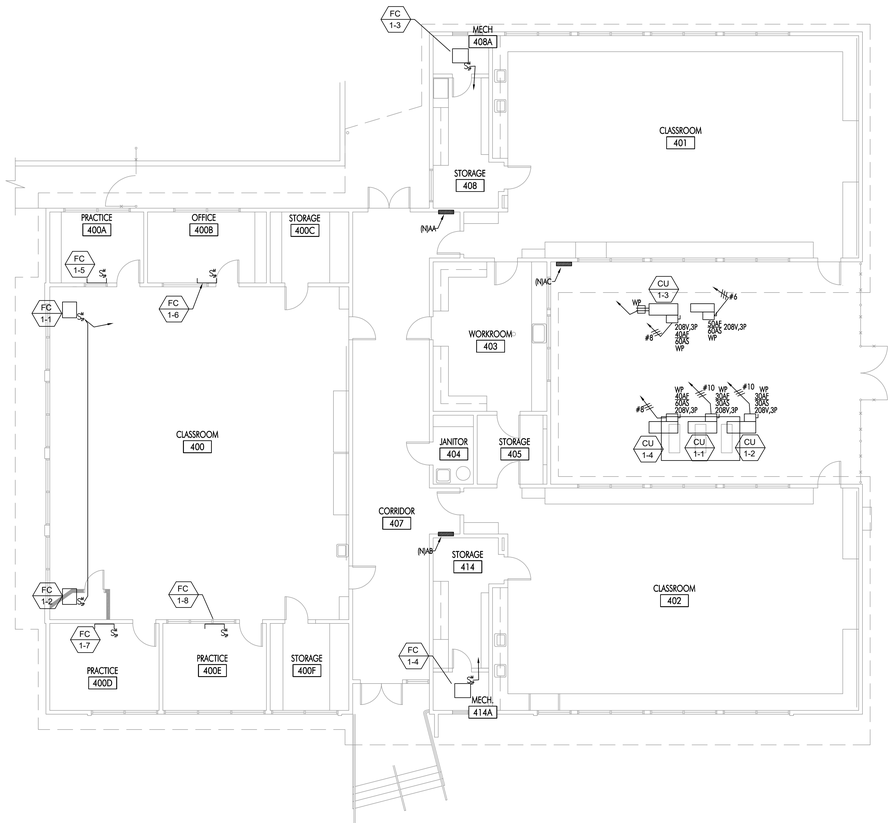
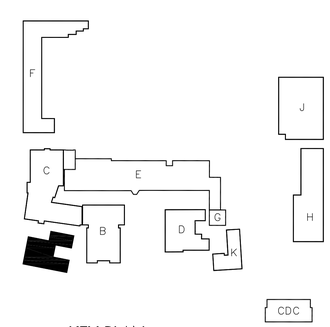


1 FLOOR PLAN

NORTH

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



KEY PLAN

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Sheet Title

Building 'A'
Power Plan

Sheet Number

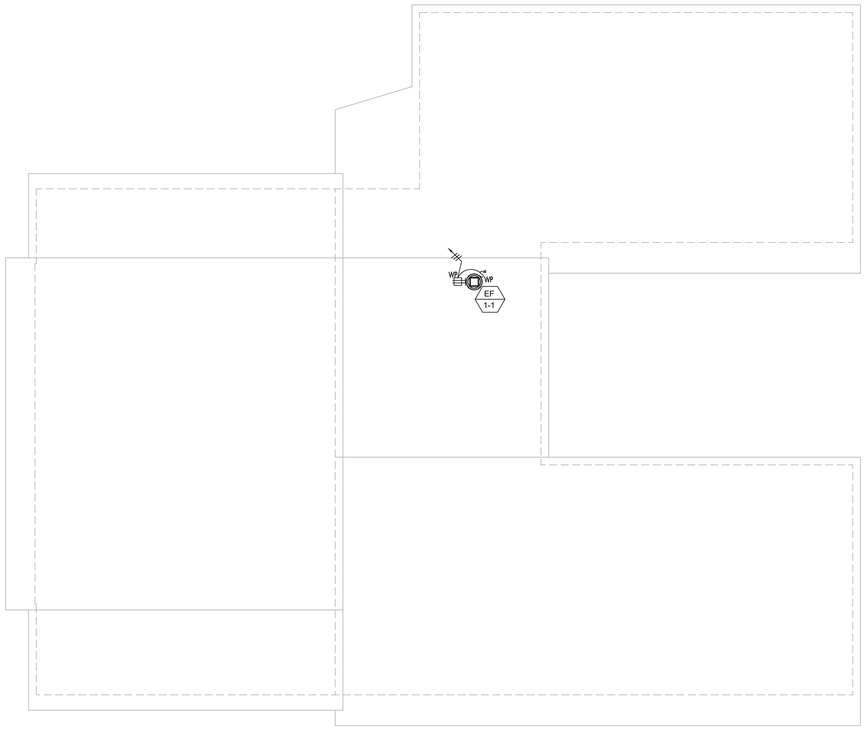
EA211

Plot Date: 11/26/2019 11:26:35 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-E-A211.dwg

APPL. No. A 00-123456

REFERENCE NOTES

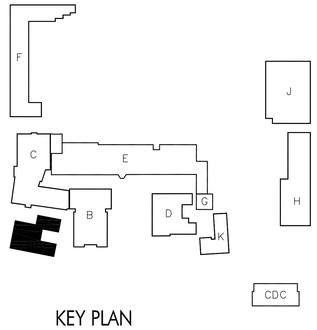
1. INDOOR UNIT POWERED FROM CORRESPONDING ROOFTOP UNIT. PROVIDE 3/4"C,2#12+1#12GND BETWEEN UNITS.



1 ROOF PLAN

NORTH

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



KEY PLAN

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Architect

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310.204.3400

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Date: .....
Scale: As Shown
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Checked By: BA

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LICENSED ARCHITECT
BOARD FOR ARCHITECTS
NO. C-26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LAU
No. E 17255
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Building 'A'
Roof Power Plan

Sheet Number

EA212

Plot Date: 11/26/2019 11:26:49 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files\2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-EA212.dwg

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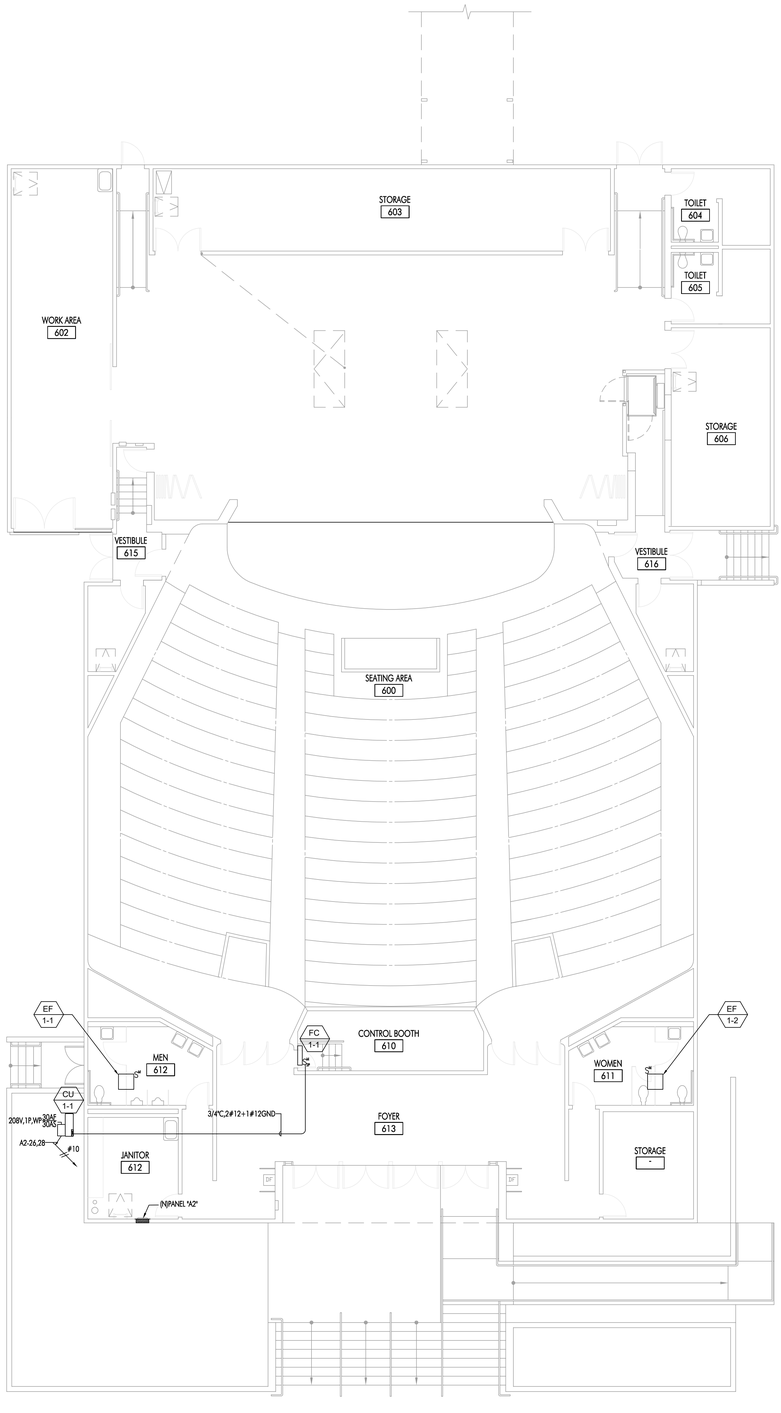
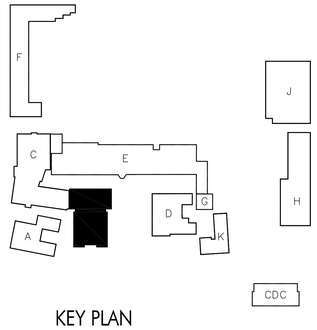


1 FLOOR PLAN

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

NORTH



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Architect

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
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Santa Monica, California 90403

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Checked By: BA

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LICENSED ARCHITECT
RICHARD W. SCHMIDT
NO. C26229
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STATE OF CALIFORNIA

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THOMAS W. LAU
No. E 17255
Exp 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Building 'B'
Power Plan

Sheet Number

EB211

Plot Date: 11/26/2019 11:27:03 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files\2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-EB211.dwg

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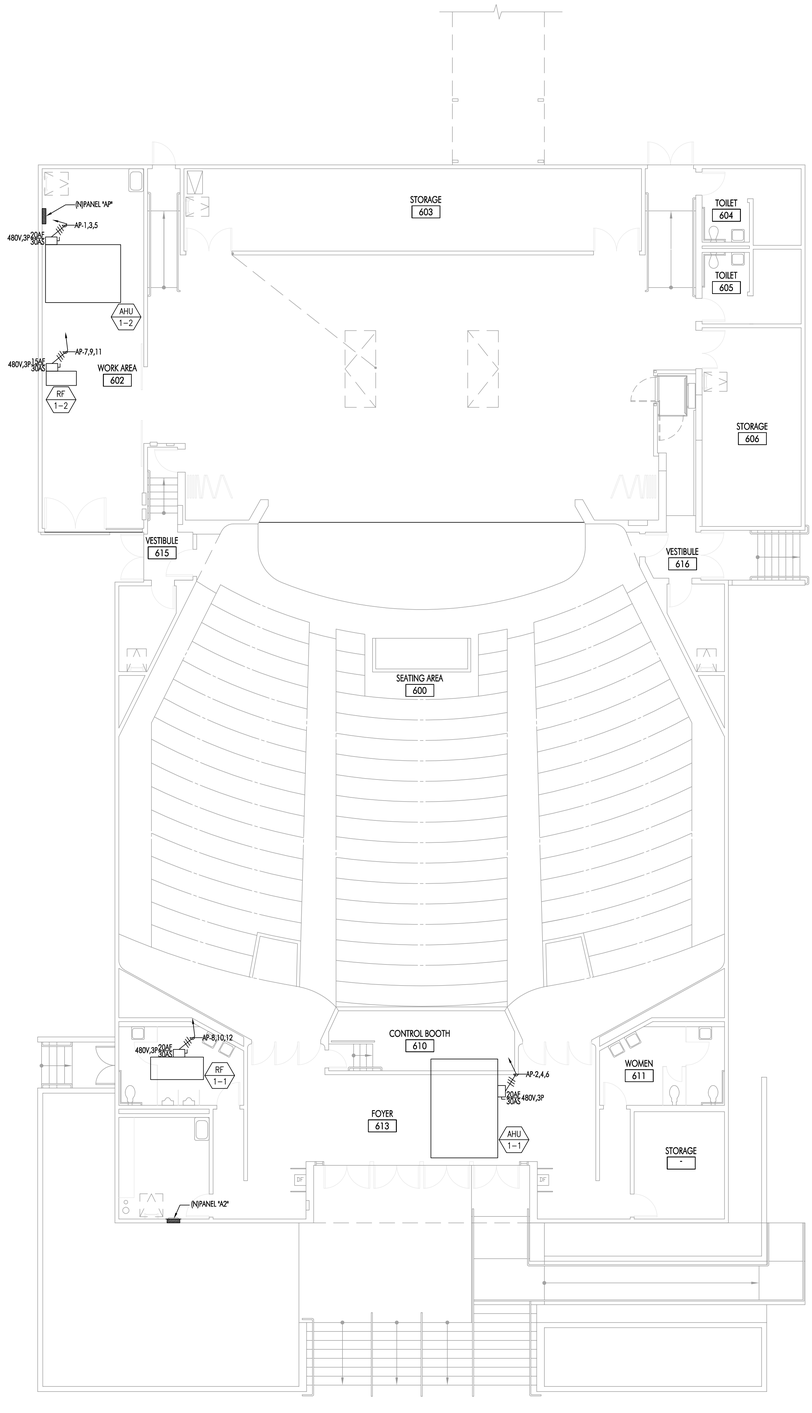
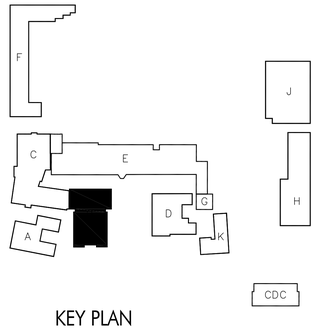


1 MEZZANINE PLAN

NORTH

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



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Lincoln Middle School HVAC Replacement Project

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Exp 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Building 'B'
Mezzanine
Power Plan

Sheet Number

EB212

Plot Date: 11/26/2019 11:27:17 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files\2019\19-025 SAMUSD Lincoln MS\electrical Drawings\EB\SAMUSD-LMS-EB212.dwg

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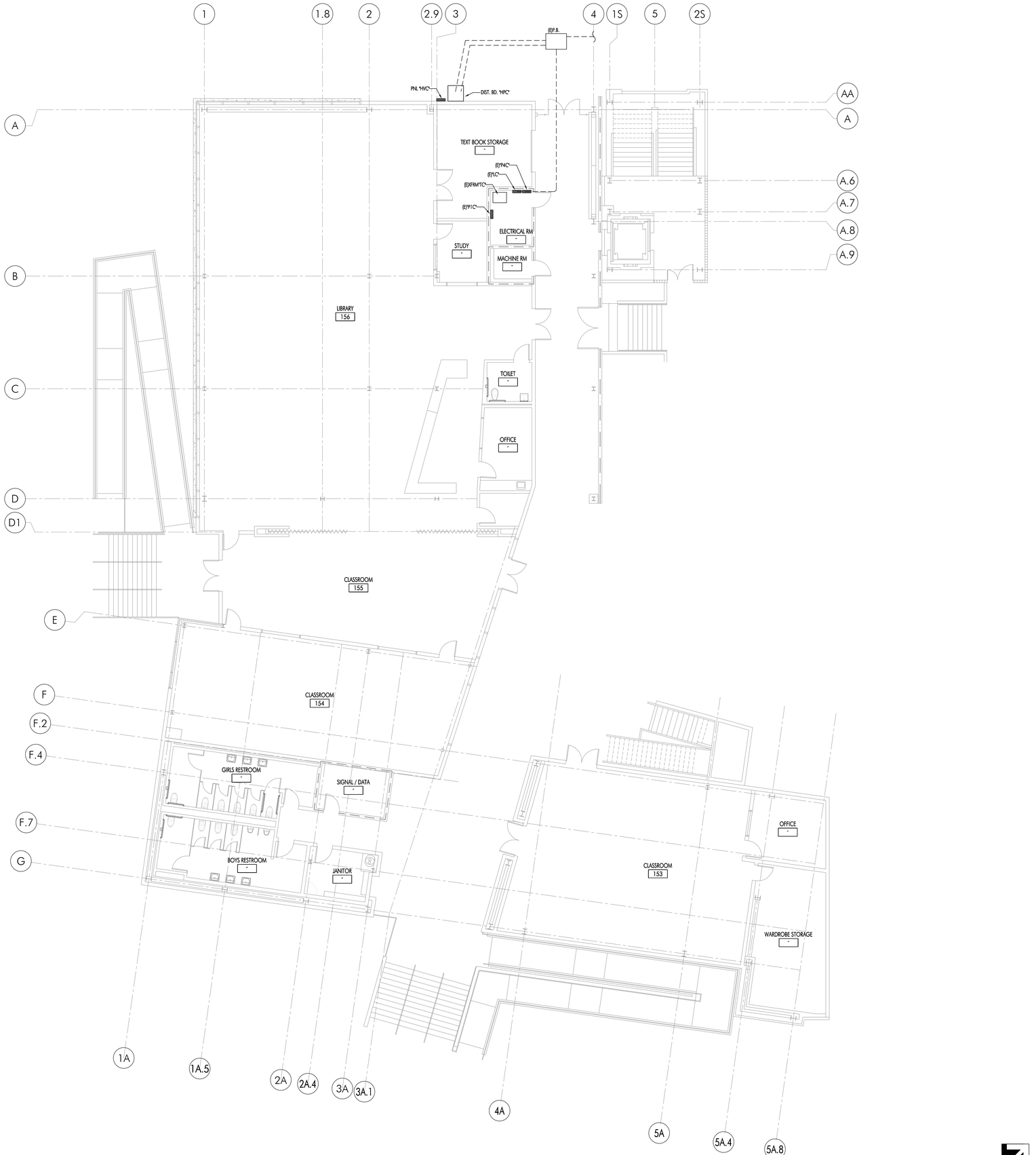
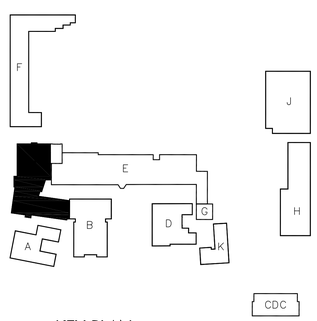


1 FLOOR PLAN

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



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THOMAS W. LAW
No. E 17525
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Building 'C1' First Floor Power Plan

Sheet Number

EC211

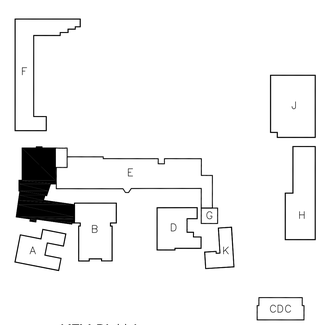
Plot Date: 11/26/2019 11:27:31 AM Last Save By: Tom Law Login: Rungsub Sunnethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-EC211.dwg

APPL. No. A 00-123456

1 FLOOR PLAN

NORTH

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



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Architect

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BRANDON W. BARNHART
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THOMAS W. LAW
No. E 17255
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Building 'C1'
Second Floor
Power Plan

Sheet Number

EC212

Plot Date: 11/26/2019 11:27:47 AM Last Save By: Tom Law Login: Rungsuk Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\EI\SMMUSD-LMS-EC212.dwg

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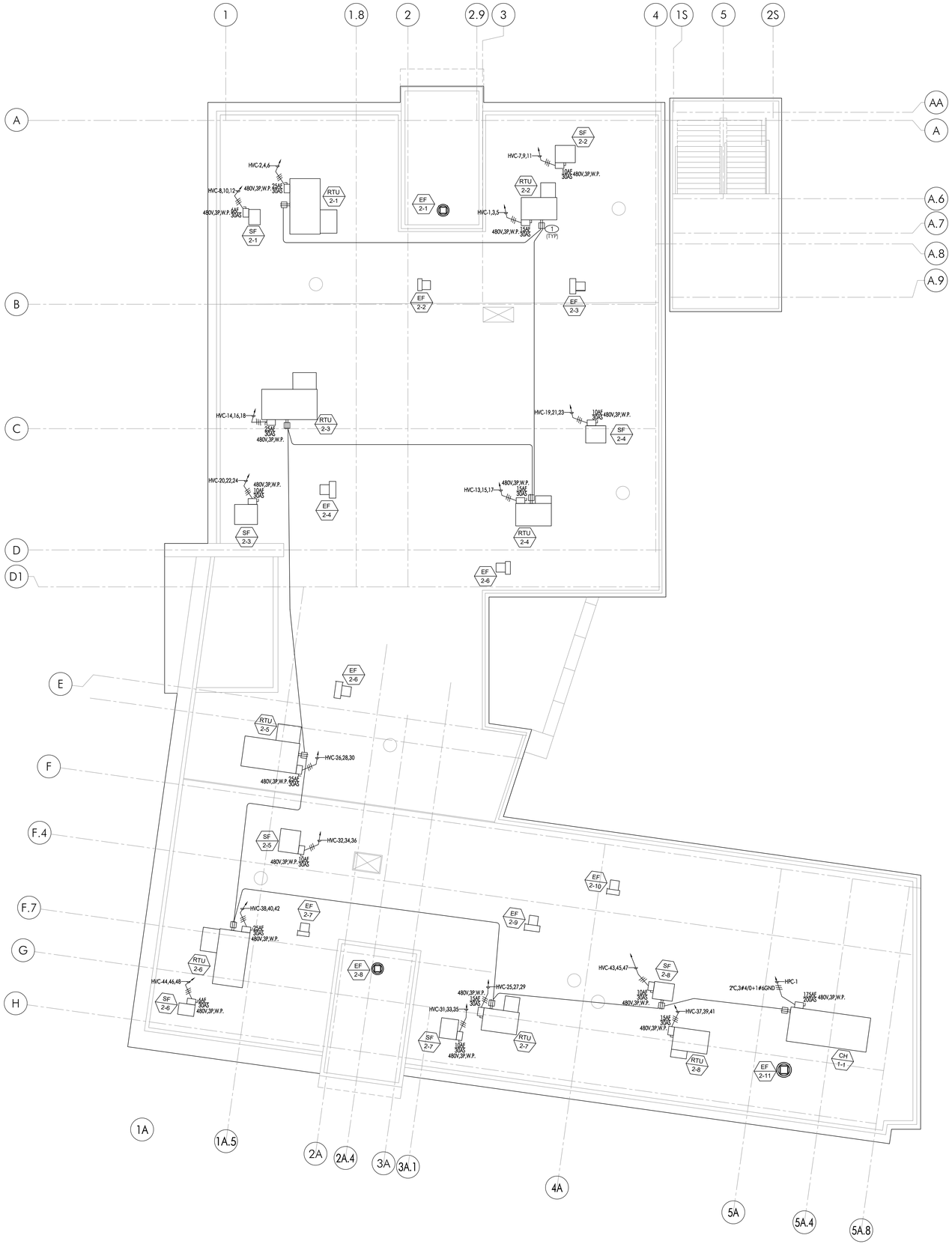


1 ROOF PLAN

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

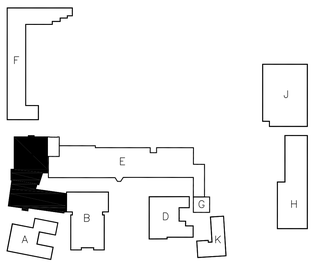
NORTH

GENERAL NOTES

1. ALL ROOFTOP EQUIPMENT TO BE NEMA-3R RATED.
2. COORDINATE LOCATION FOR EQUIPMENT POINTS OF CONNECTION/DISCONNECT SWITCHES. MAINTAIN ALL CODE REQUIRED CLEARANCES.
3. PROVIDE DURA-BLOK (OR EQUAL) SUPPORTS FOR ALL CONDUITS RUN ON ROOF.

REFERENCE NOTES

(1) PROVIDE WEATHER RESISTANT, GFI PROTECTED RECEPTACLE, IN WEATHERPROOF ENCLOSURE, LISTED/IDENTIFIED AS "EXTRA DUTY" COVER. MOUNTED ON UNISTRUT SUPPORTING WIREWAY/DISCONNECT SWITCHES



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REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LAW
No. E 17255
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Building 'C1' Roof Power Plan

Sheet Number

EC241

Plot Date: 11/26/2019 11:28:01 AM Last Save By: Tom Law Login: Rungsub Sumethasom J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-EC241.dwg

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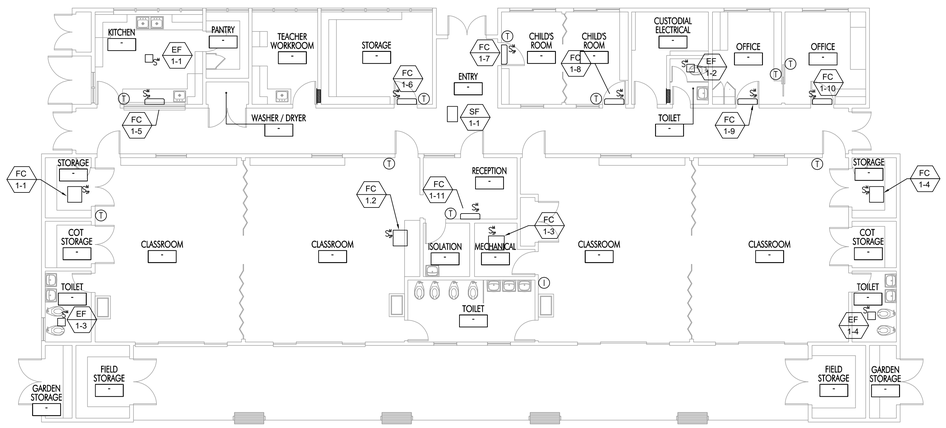
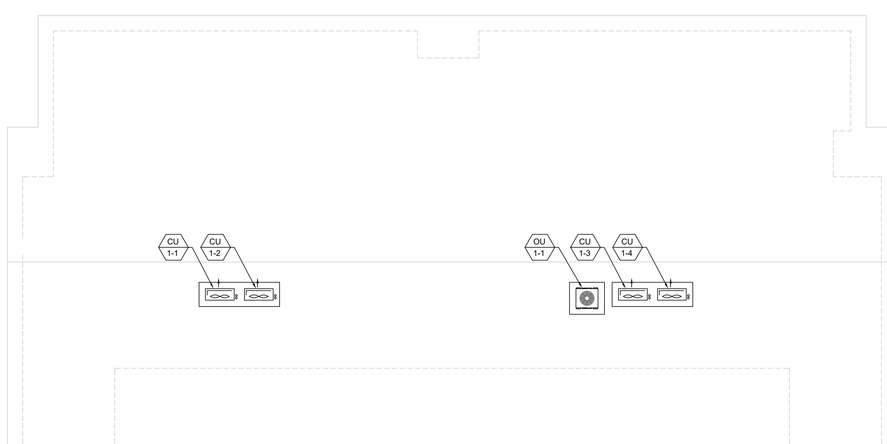


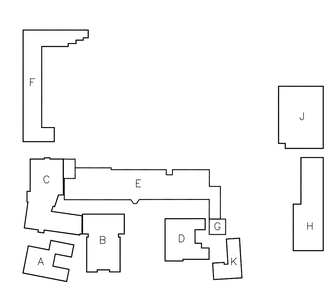
1 FLOOR PLAN

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



2 ROOF PLAN

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



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LICENSED ARCHITECT
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Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Child Development Center (CDC) Power Plans

Sheet Number

ECDC211

Plot Date: 11/26/2019 11:28:16 AM Last Save By: Tom Law Login: Rungsuib Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-ECDC211.dwg

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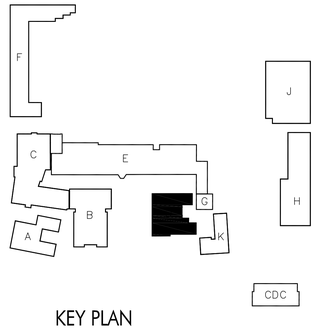
REFERENCE NOTES

1. INDOOR UNIT POWERED FROM CORRESPONDING ROOFTOP UNIT. PROVIDE 3/4"C;2#12+1#12GND BETWEEN UNITS.

1 FLOOR PLAN

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

NORTH



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STATE OF CALIFORNIA

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THOMAS W. LAW
No. E 17253
Exp 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Building 'D'
Power Plan

Sheet Number

ED211

Plot Date: 11/26/2019 11:28:31 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-ED211.dwg

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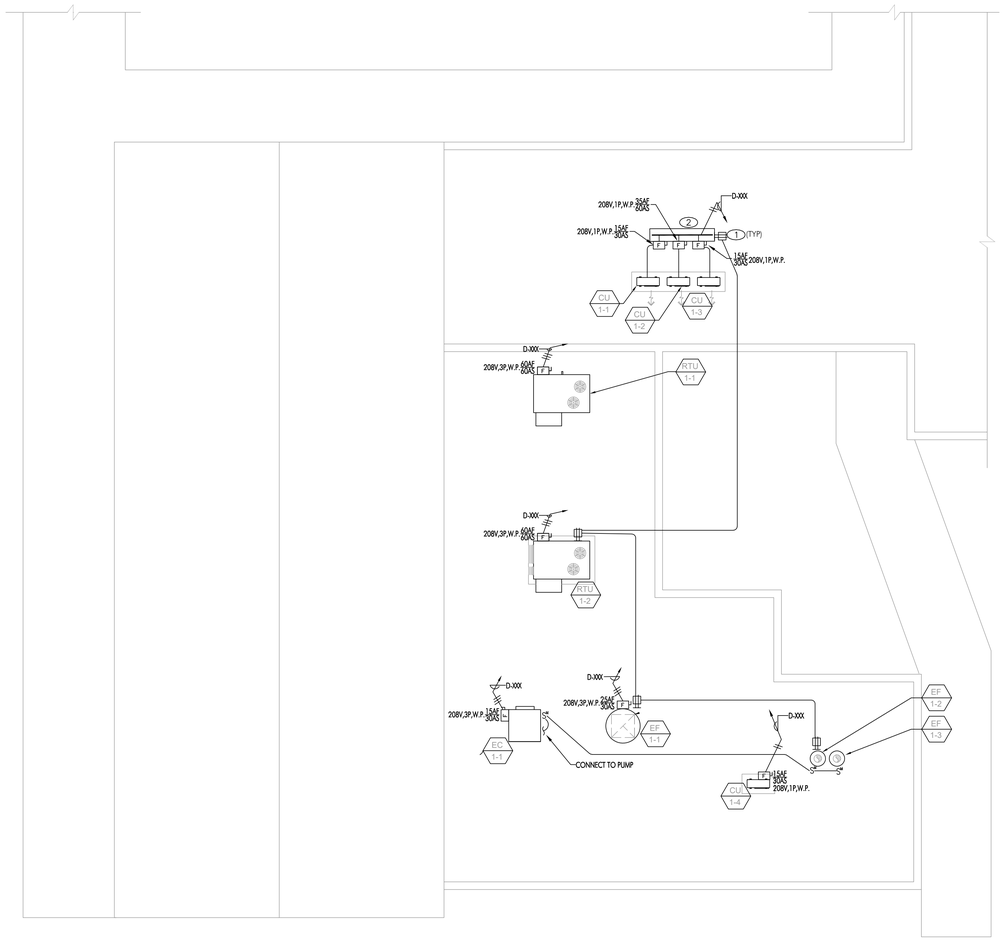


1 FLOOR PLAN

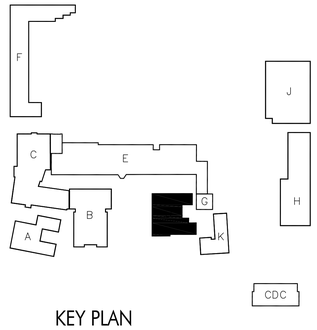
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. ALL ROOFTOP EQUIPMENT TO BE NEMA-3R RATED.
2. COORDINATE LOCATION FOR EQUIPMENT POINTS OF CONNECTION/DISCONNECT SWITCHES. MAINTAIN ALL CODE REQUIRED CLEARANCES.
3. PROVIDE DURA-BLOK (OR EQUAL) SUPPORTS FOR ALL CONDUITS RUN ON ROOF.

REFERENCE NOTES

1. PROVIDE WEATHER RESISTANT, GFI PROTECTED RECEPTACLE, IN WEATHERPROOF ENCLOSURE, LISTED/IDENTIFIED AS "EXTRA DUTY" COVER. MOUNTED ON UNISTRUT SUPPORTING WIREWAY/DISCONNECT SWITCHES
2. W.P. WIREWAY 8"x8"\LENGTH AS REQUIRED(MIN.). MOUNT WIREWAY +18"AFF WITH GALVANIZED UNISTRUT SUPPORTS. W.P. FUSIBLE DISCONNECTS MOUNTED TO UNISTRUT SUPPORT



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ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Building 'D'
Roof Power Plan

Sheet Number

ED212

Plot Date: 11/26/2019 11:28:44 AM Last Save By: Tom Law Login: Rungsub Sumethasom J:\Project Files\2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-ED212.dwg

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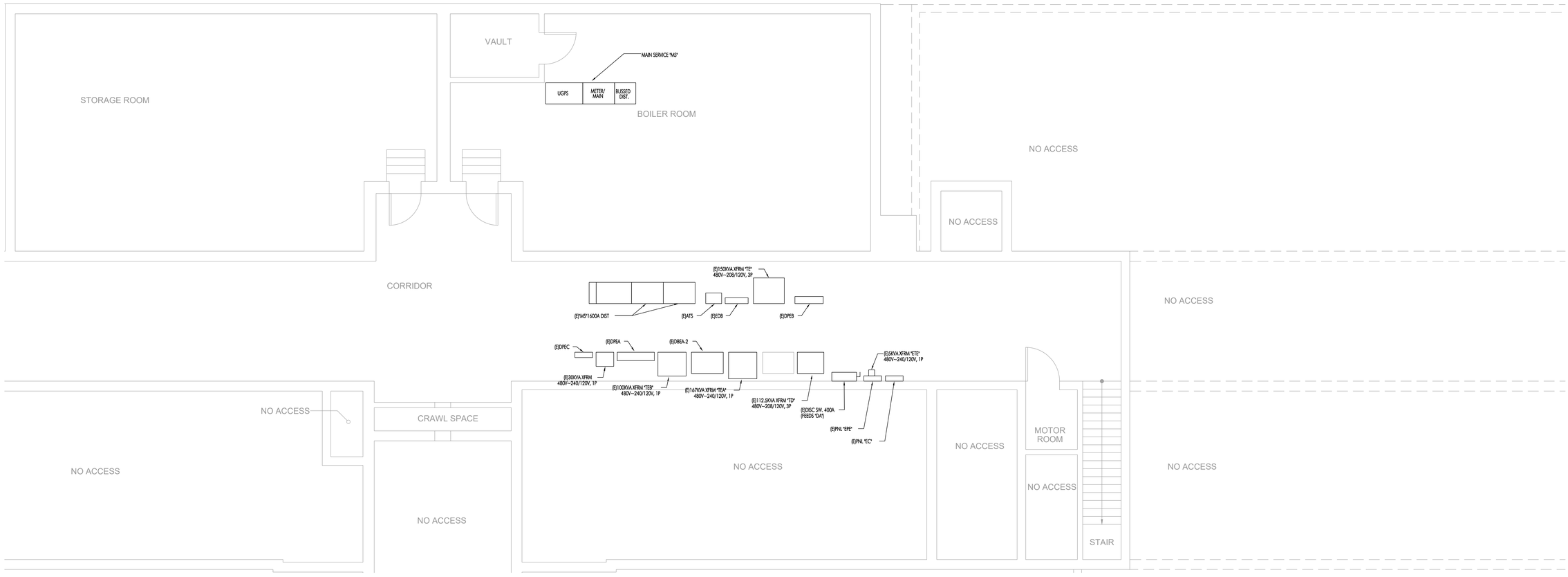
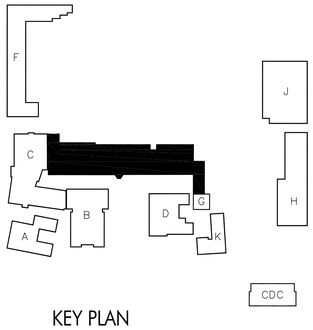


1 FLOOR PLAN

NORTH

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



KEY PLAN

DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
	11.26.19	50% CD

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Checked By: BA

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ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Building 'E
Basement
Power Plan

Sheet Number

EE201

Plot Date: 11/26/2019 11:28:58 AM Last Save By: Tom Lau Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-EE201.dwg

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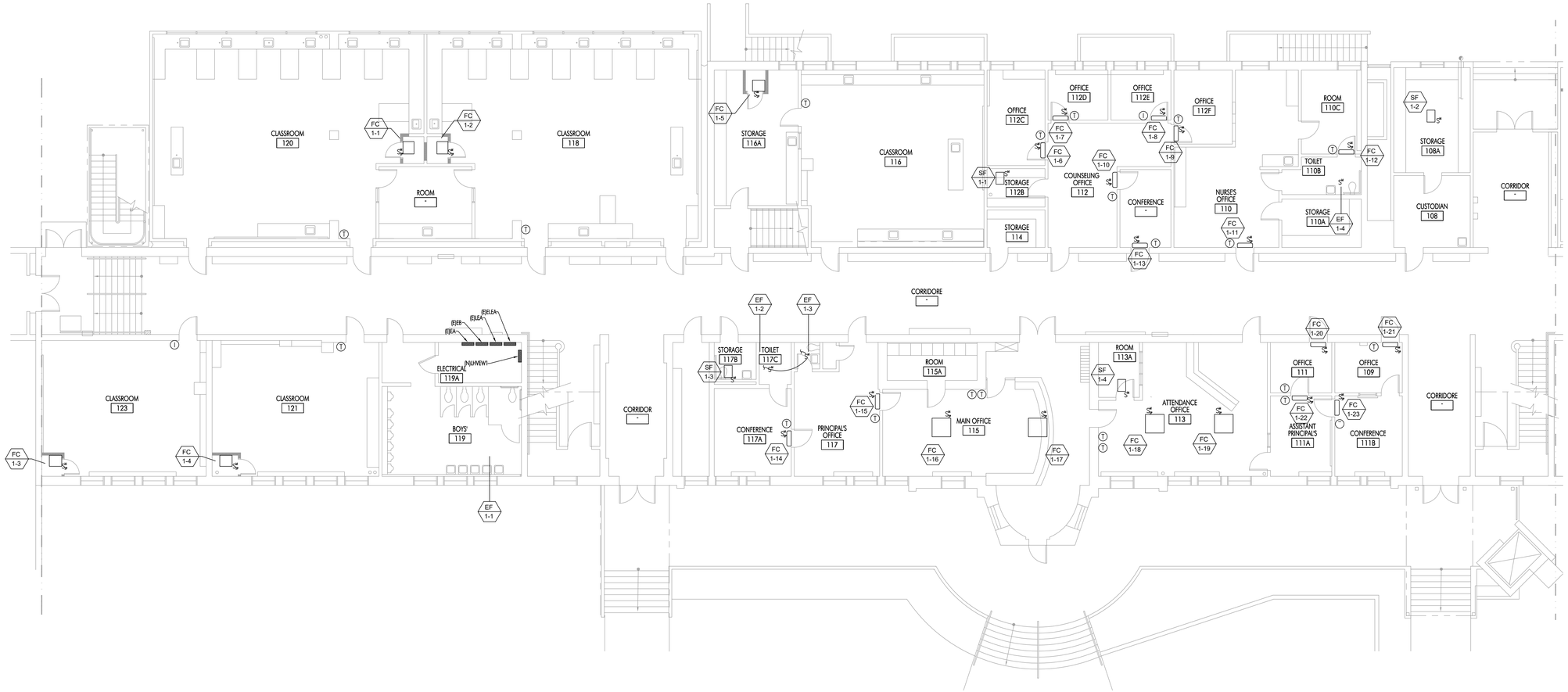
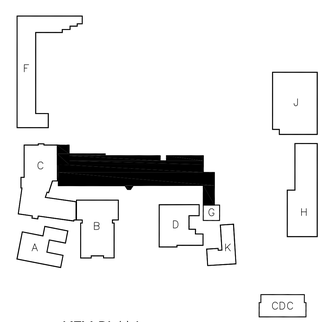


1 FLOOR PLAN

NORTH

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



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STATE OF CALIFORNIA

Sheet Title

Building 'E First Floor Power Plan

Sheet Number

EE211A

Plot Date: 11/26/2019 11:29:13 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-EE211A.dwg

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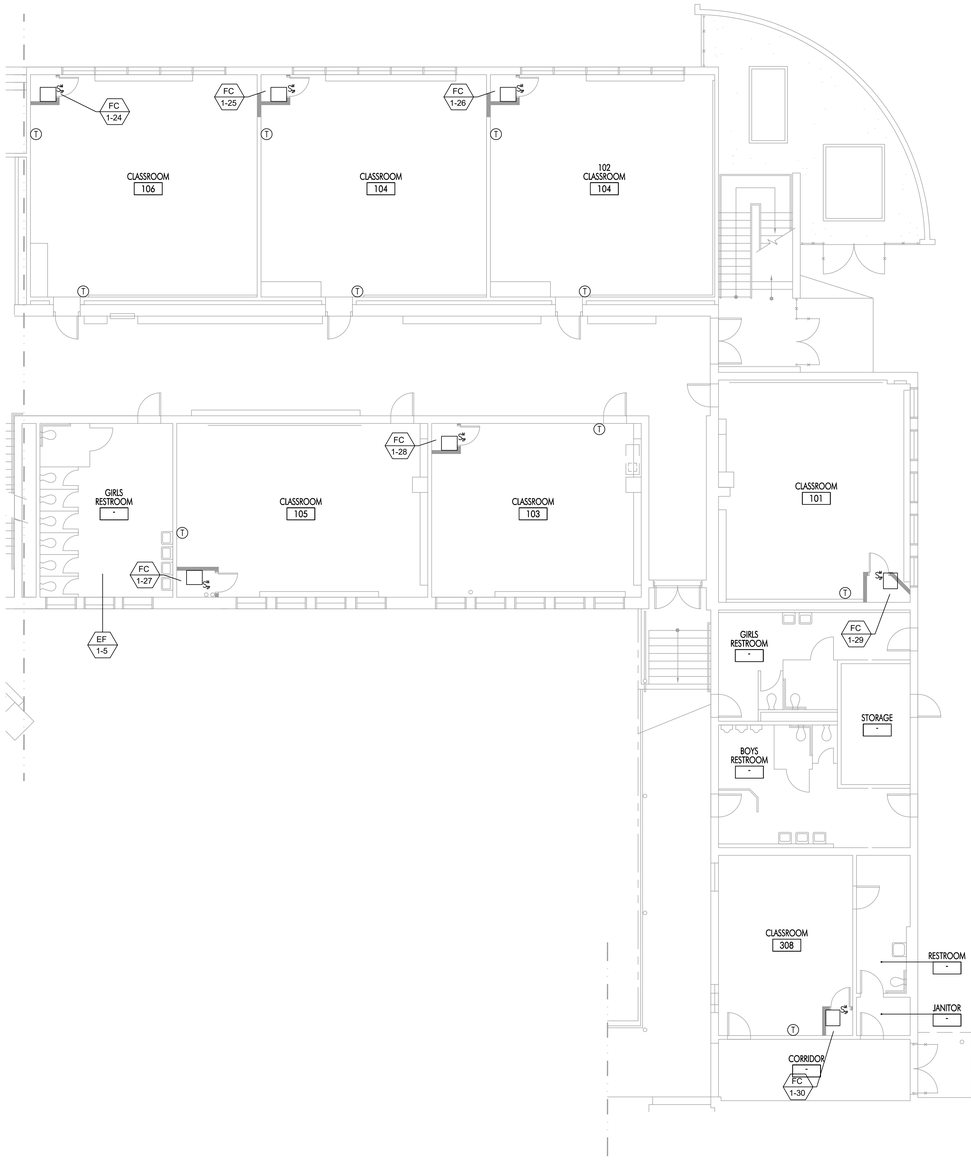
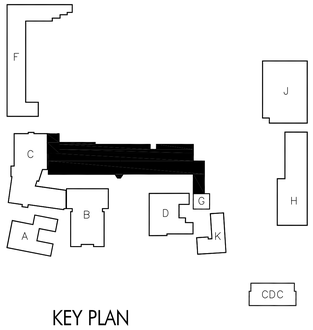


1 FLOOR PLAN

NORTH

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



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Lincoln Middle School HVAC Replacement Project

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STATE OF CALIFORNIA

Sheet Title

Building 'E First Floor Power Plan

Sheet Number

EE211B

Plot Date: 11/26/2019 11:29:28 AM Last Save By: Tom Lau Login: Rungsub Sumethasoon J:\Project Files\2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-EE211B.dwg

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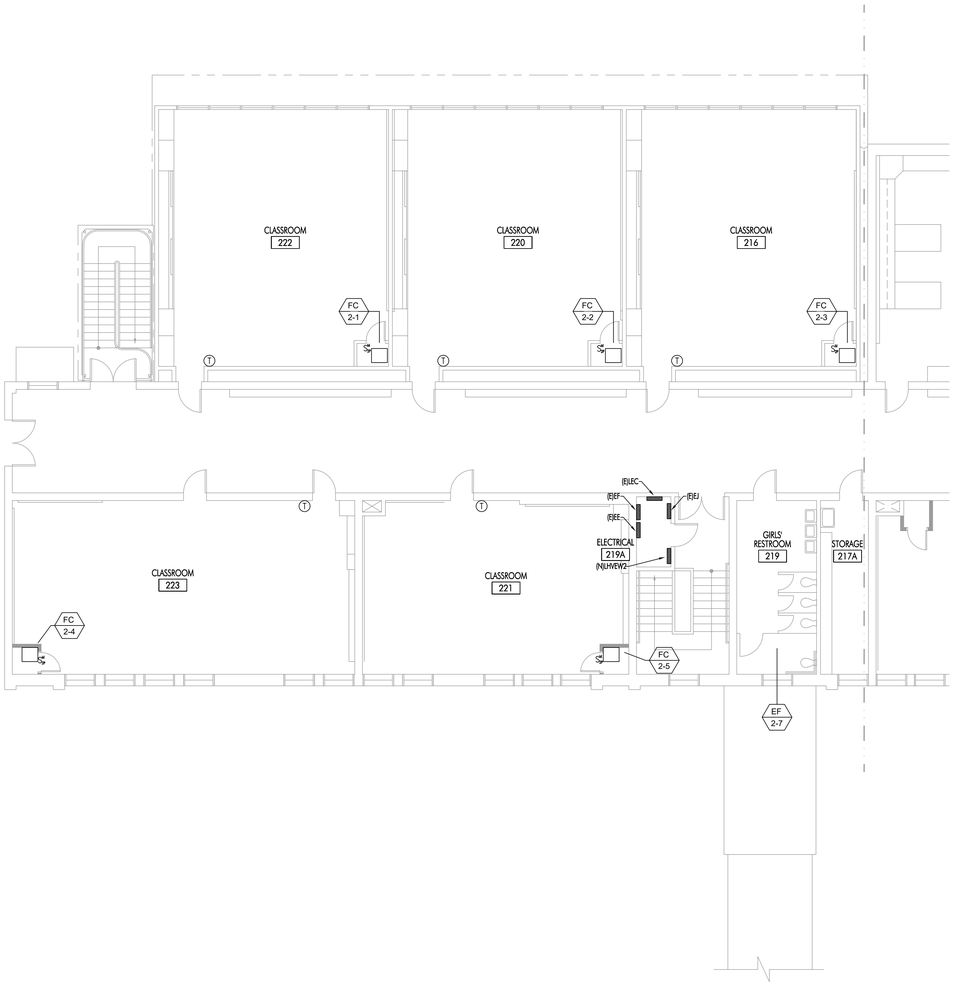
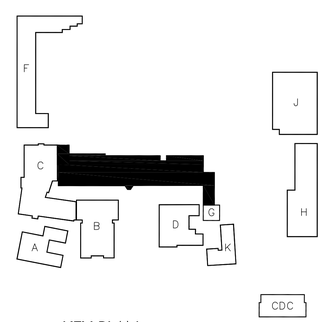


1 FLOOR PLAN

NORTH

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



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Lincoln Middle School
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STATE OF CALIFORNIA

Sheet Title

Building 'E Second Floor Power Plan

Sheet Number

EE212A

Plot Date: 11/26/2019 11:29:43 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-EE212A.dwg

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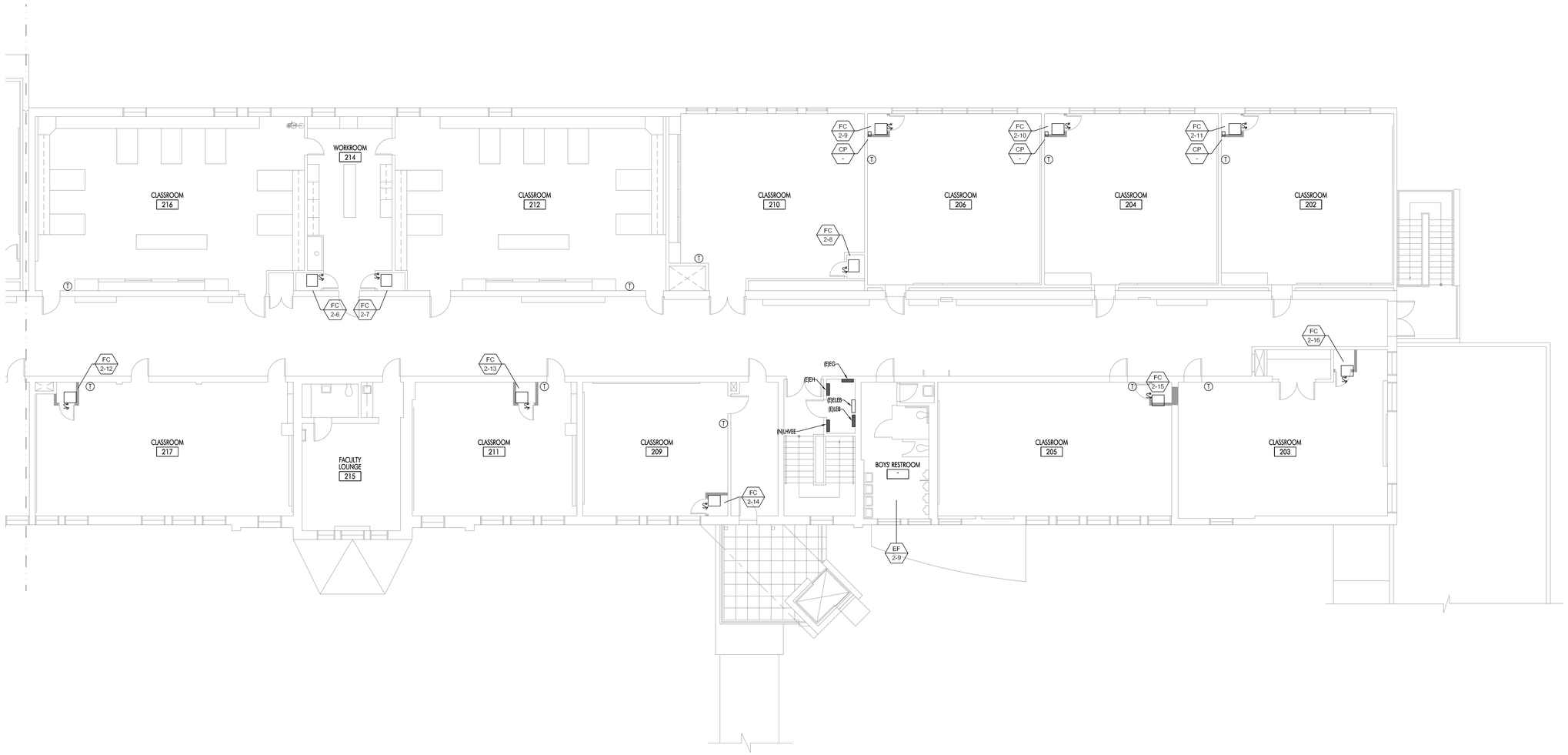
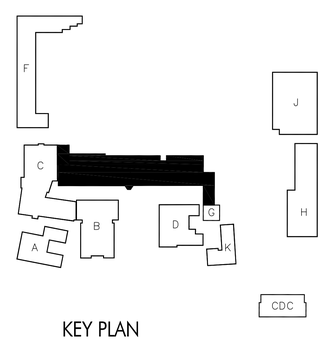


1 FLOOR PLAN

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



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STATE OF CALIFORNIA

Sheet Title

Building 'E Second Floor Power Plan

Sheet Number

EE212B

Plot Date: 11/26/2019 11:29:58 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-EE212B.dwg

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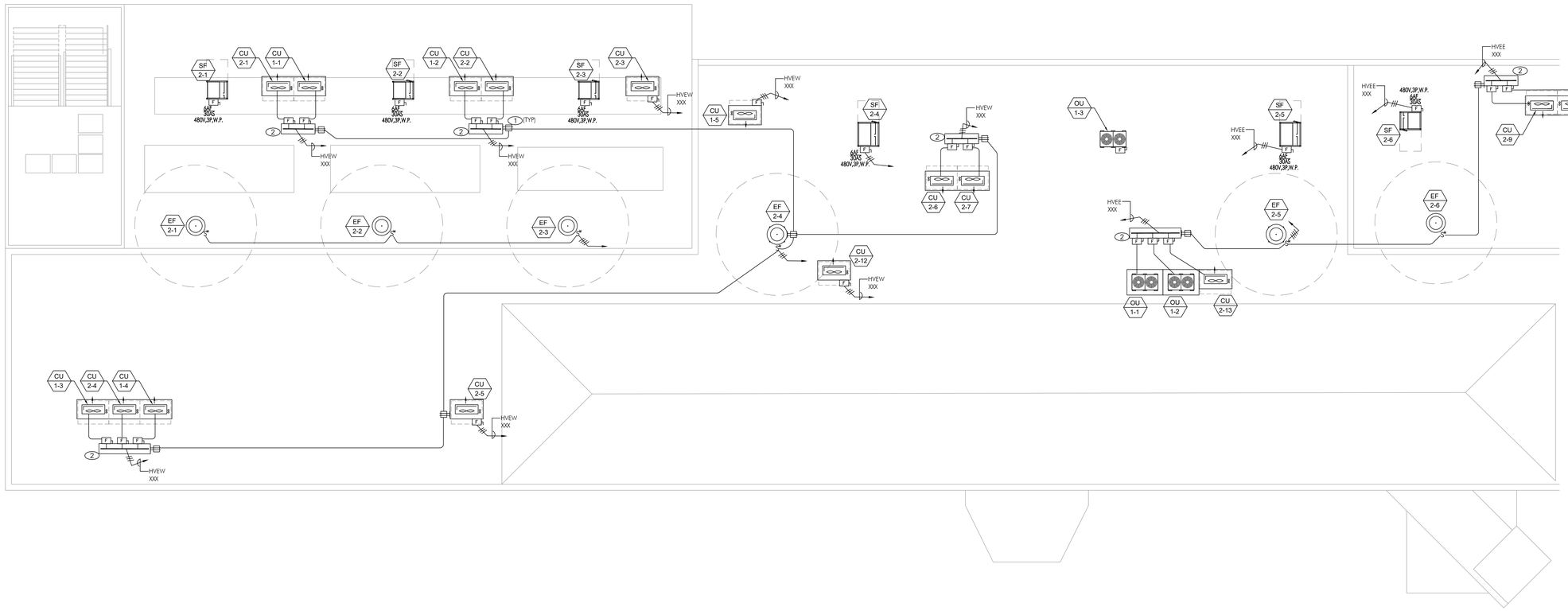


1 ROOF PLAN

NORTH

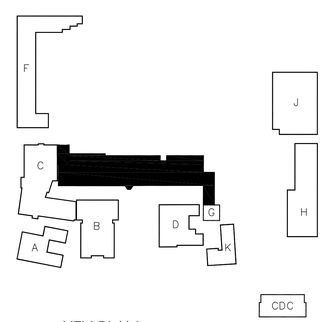
SCALE: 1/8"=1'-0"

GENERAL NOTES

1. ALL ROOFTOP EQUIPMENT TO BE NEMA-3R RATED.
2. COORDINATE LOCATION FOR EQUIPMENT POINTS OF CONNECTION/DISCONNECT SWITCHES. MAINTAIN ALL CODE REQUIRED CLEARANCES.
3. PROVIDE DURA-BLOK (OR EQUAL) SUPPORTS FOR ALL CONDUITS RUN ON ROOF.

REFERENCE NOTES

1. PROVIDE WEATHER RESISTANT, GFI PROTECTED RECEPTACLE, IN WEATHERPROOF ENCLOSURE, LISTED/IDENTIFIED AS "EXTRA DUTY" COVER. MOUNTED ON UNISTRUT SUPPORTING WIREWAY/DISCONNECT SWITCHES
2. W.P. WIREWAY 8'x8'xLENGTH AS REQUIRED(MIN.). MOUNT WIREWAY +18'AFF WITH GALVANIZED UNISTRUT SUPPORTS. W.P. FUSIBLE DISCONNECTS MOUNTED TO UNISTRUT SUPPORT



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ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Building 'E Second Roof Power Plan

Sheet Number

EE241A

Plot Date: 11/26/2019 11:30:12 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-EE241A.dwg

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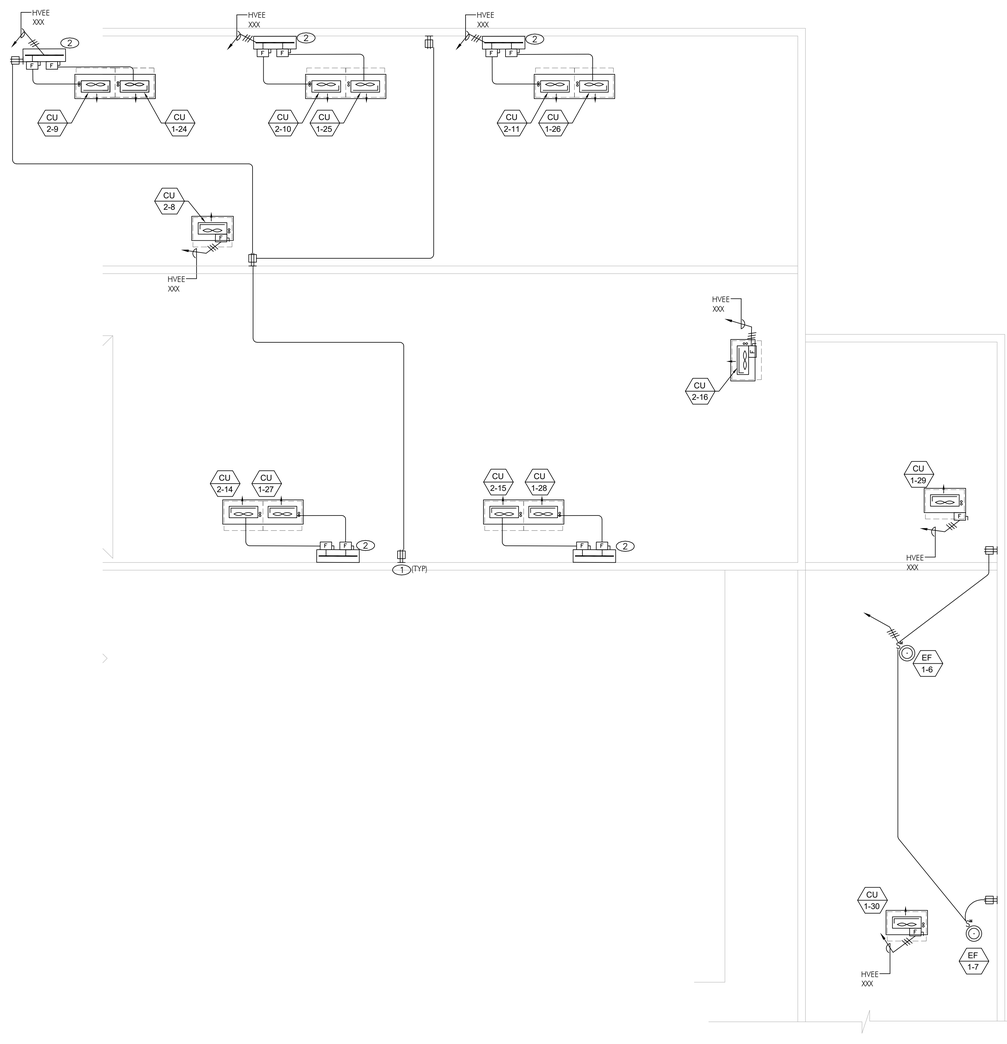

1 ROOF PLAN

NORTH

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

GENERAL NOTES

1. ALL ROOFTOP EQUIPMENT TO BE NEMA-3R RATED.
2. COORDINATE LOCATION FOR EQUIPMENT POINTS OF CONNECTION/DISCONNECT SWITCHES. MAINTAIN ALL CODE REQUIRED CLEARANCES.
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REFERENCE NOTES

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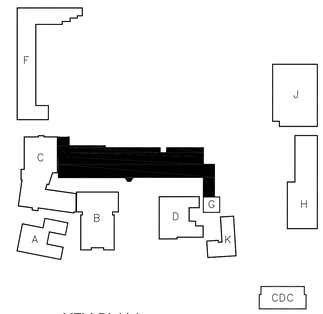

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ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Building 'E Second Roof Power Plan

Sheet Number

EE241B

Plot Date: 11/26/2019 11:30:25 AM Last Save By: Tom Law Login: Rungsub Sumethasom J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-EE241B.dwg

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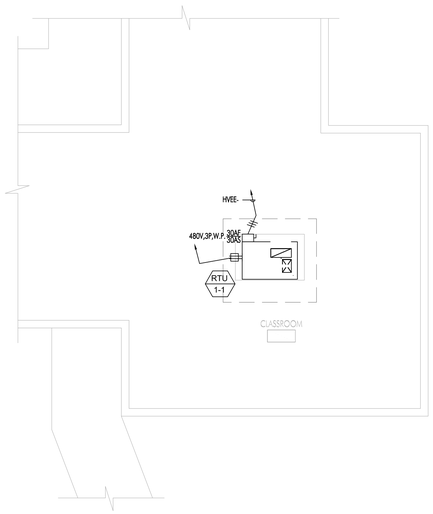
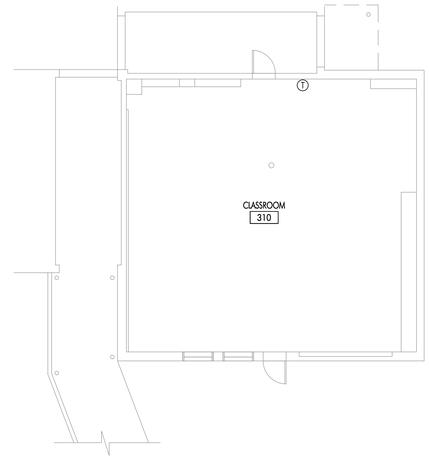


2 ROOF PLAN

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



1 FLOOR PLAN

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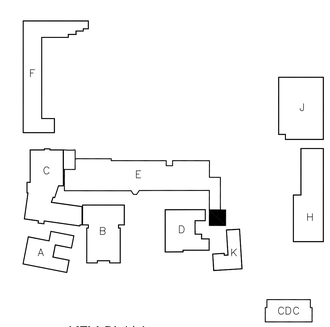

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Lincoln Middle School HVAC Replacement Project

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Exp.6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Building 'G'
Power Plan

Sheet Number

EG211

Plot Date: 11/26/2019 11:30:40 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-EG211.dwg

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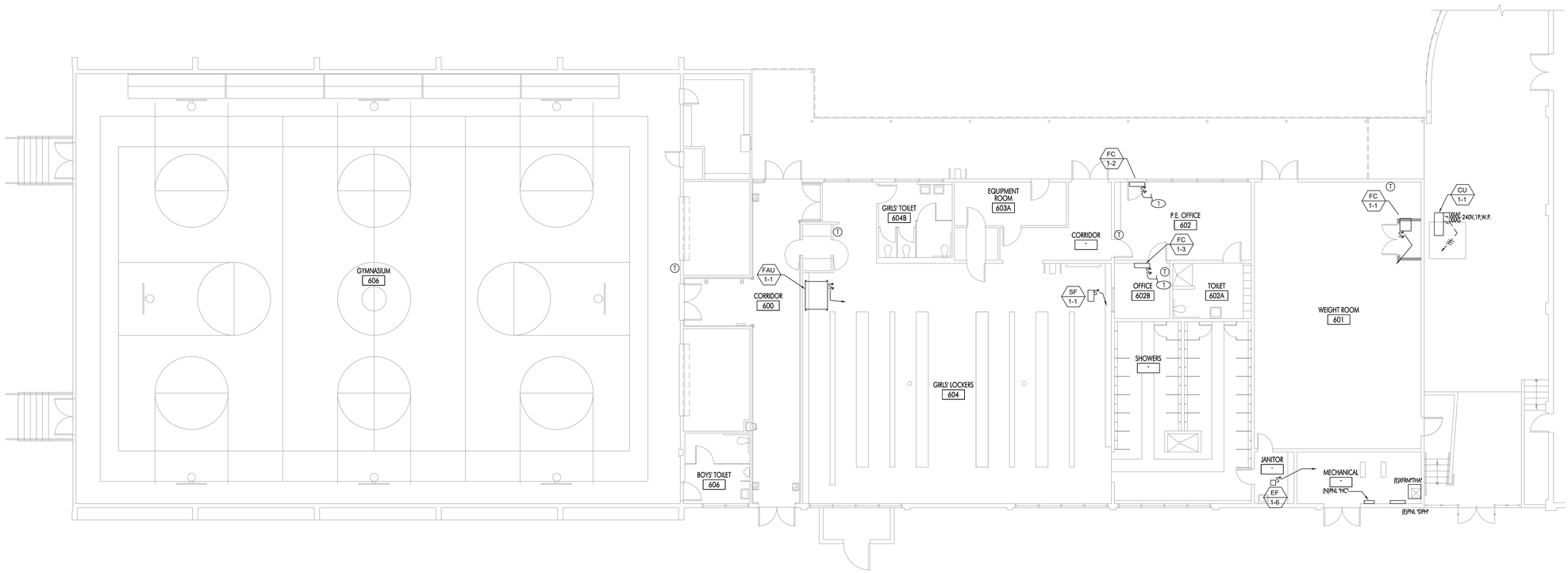


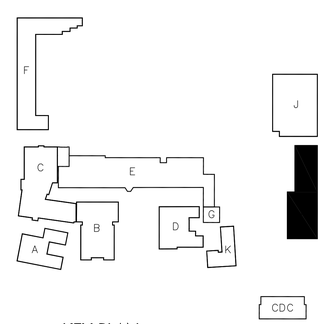
1 FLOOR PLAN

NORTH

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

REFERENCE NOTES

1. INDOOR UNIT POWERED FROM CORRESPONDING ROOFTOP UNIT. PROVIDE 3/4"C,2#12+1#12GND BETWEEN UNITS.



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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
	11.26.19	50% CD

Date: .....
Scale: As Shown
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Checked By: BA

Architect / Engineer Stamp

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REN. 2-28-21
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Consultants

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THOMAS W. LAW
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Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

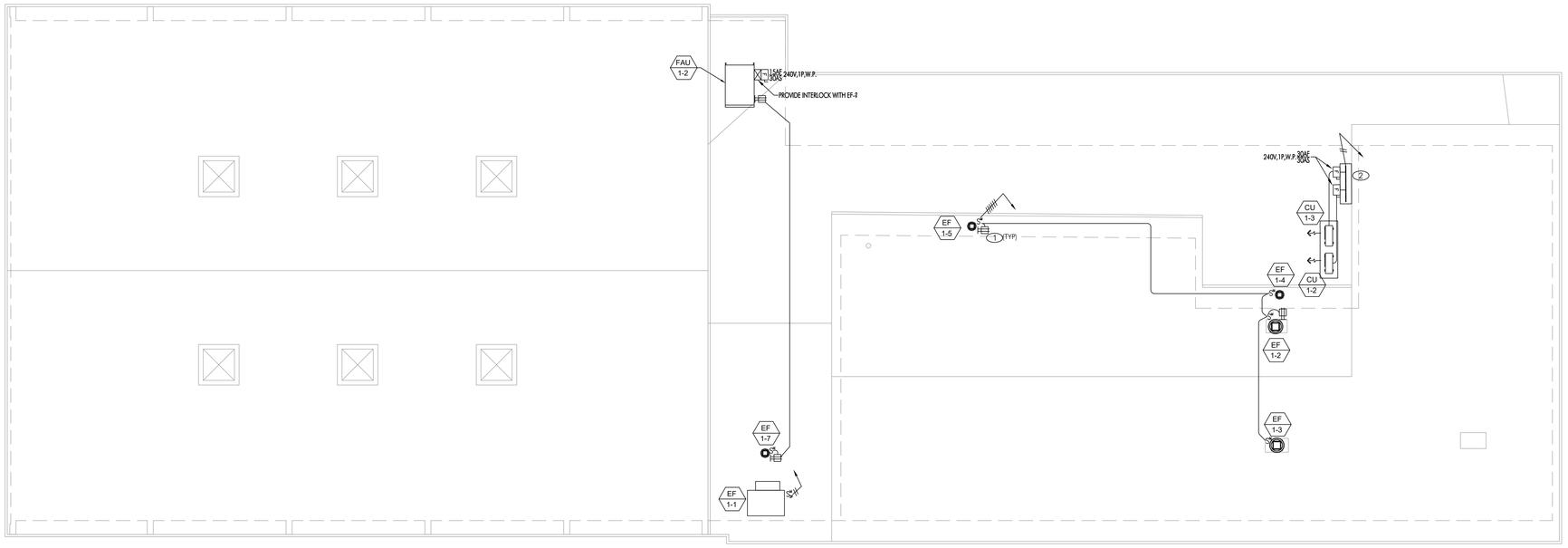
Building 'H'
Power Plan

Sheet Number

EH211

Plot Date: 11/26/2019 11:30:56 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-EH211.dwg

APPL. No. A 00-123456



1 ROOF PLAN

NORTH

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

GENERAL NOTES

1. ALL ROOFTOP EQUIPMENT TO BE NEMA-3R RATED.
2. COORDINATE LOCATION FOR EQUIPMENT POINTS OF CONNECTION/DISCONNECT SWITCHES. MAINTAIN ALL CODE REQUIRED CLEARANCES.
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REFERENCE NOTES

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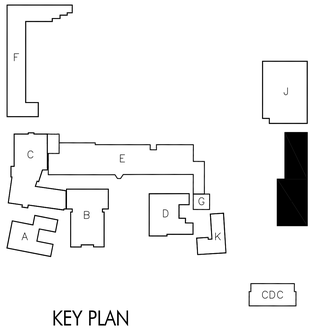
2. W.P. WIREWAY 8"x8"xLENGTH AS REQUIRED(MIN.). MOUNT WIREWAY +18'AFF WITH GALVANIZED UNISTRUT SUPPORTS. W.P. FUSIBLE DISCONNECTS MOUNTED TO UNISTRUT SUPPORT



KEY PLAN

DSA Stamp

Architect

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Culver City, CA 90232
310.204.3400

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Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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STATE OF CALIFORNIA

Sheet Title

Building 'H' Roof Power Plan

Sheet Number

EH241

Plot Date: 11/26/2019 11:31:11 AM Last Save By: Tom Lai Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-EH241.dwg

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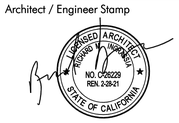


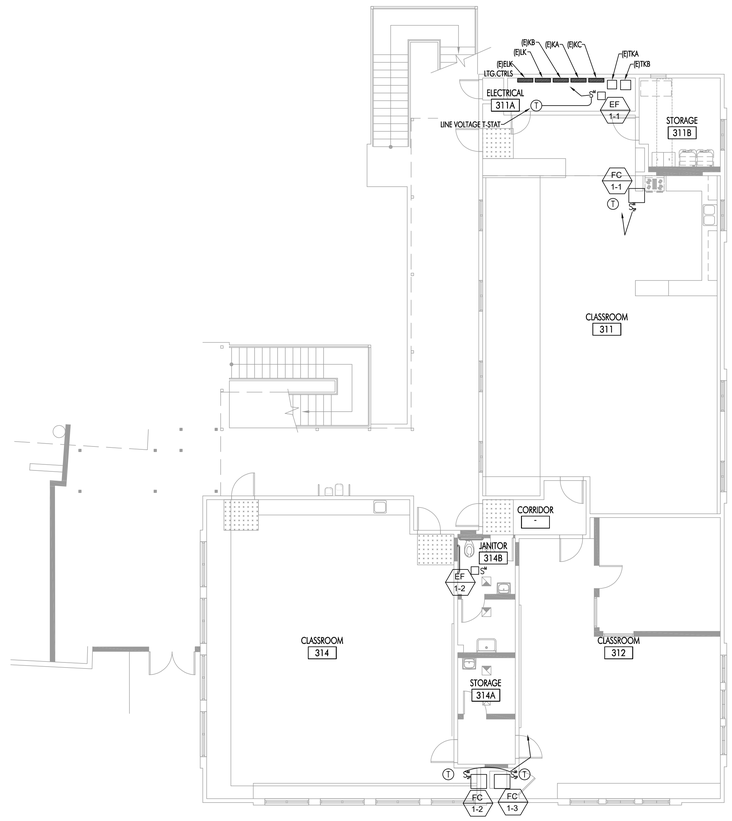
Consultants

Sheet Title

Building 'K' First Floor Power Plan

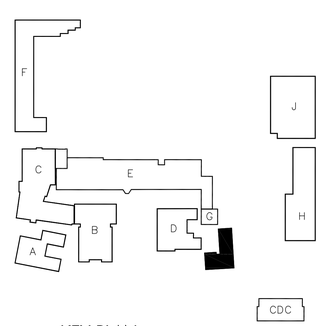
Sheet Number

EK211



1 FLOOR PLAN

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



KEY PLAN

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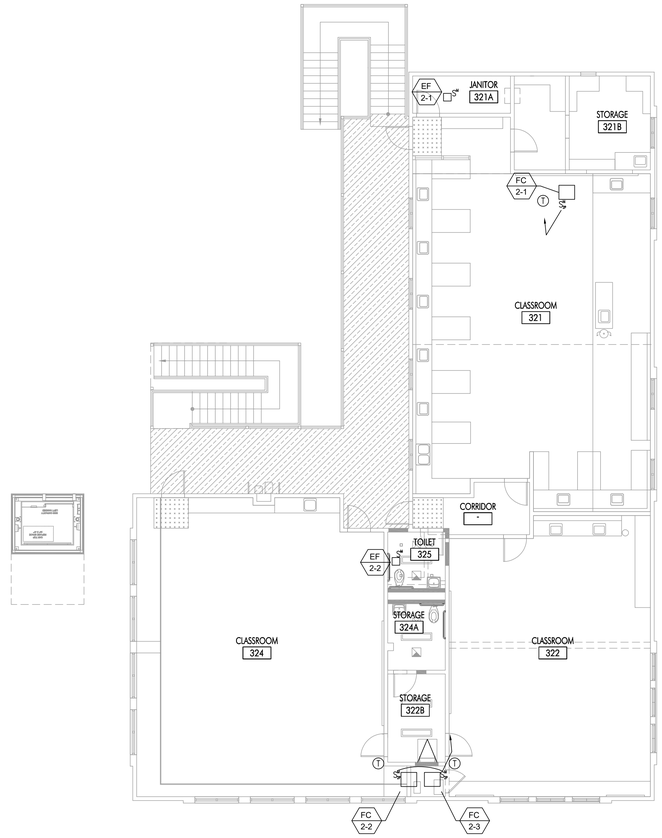
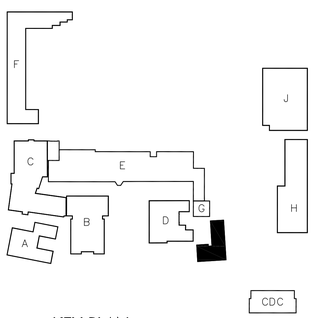


1 FLOOR PLAN

NORTH

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



KEY PLAN

Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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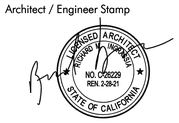

Consultants

Sheet Title

Building 'K' Second Floor Power Plan

Sheet Number

EK212

Plot Date: 11/26/2019 11:31:42 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-EK212.dwg

APPL. No. A 00-123456

GENERAL NOTES

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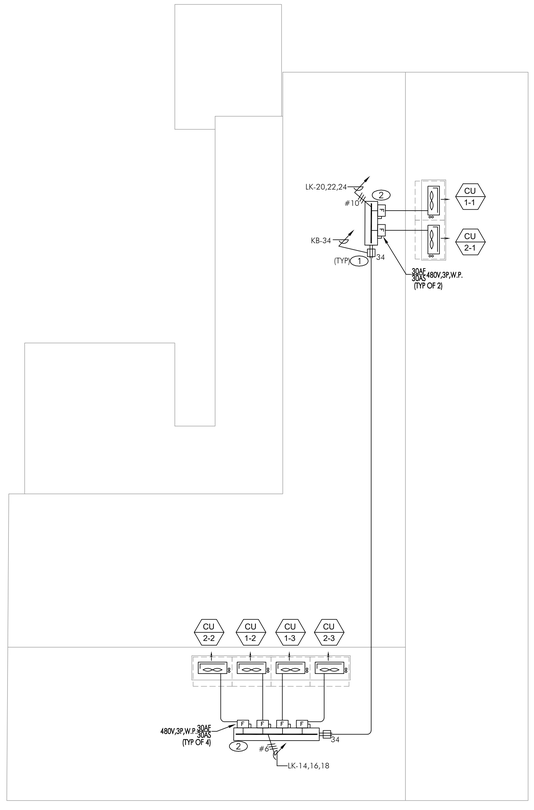
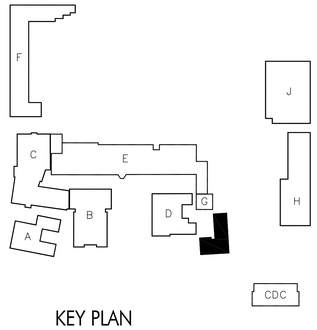


1 FLOOR PLAN

NORTH

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



KEY PLAN

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Architect

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ELECTRICAL
STATE OF CALIFORNIA

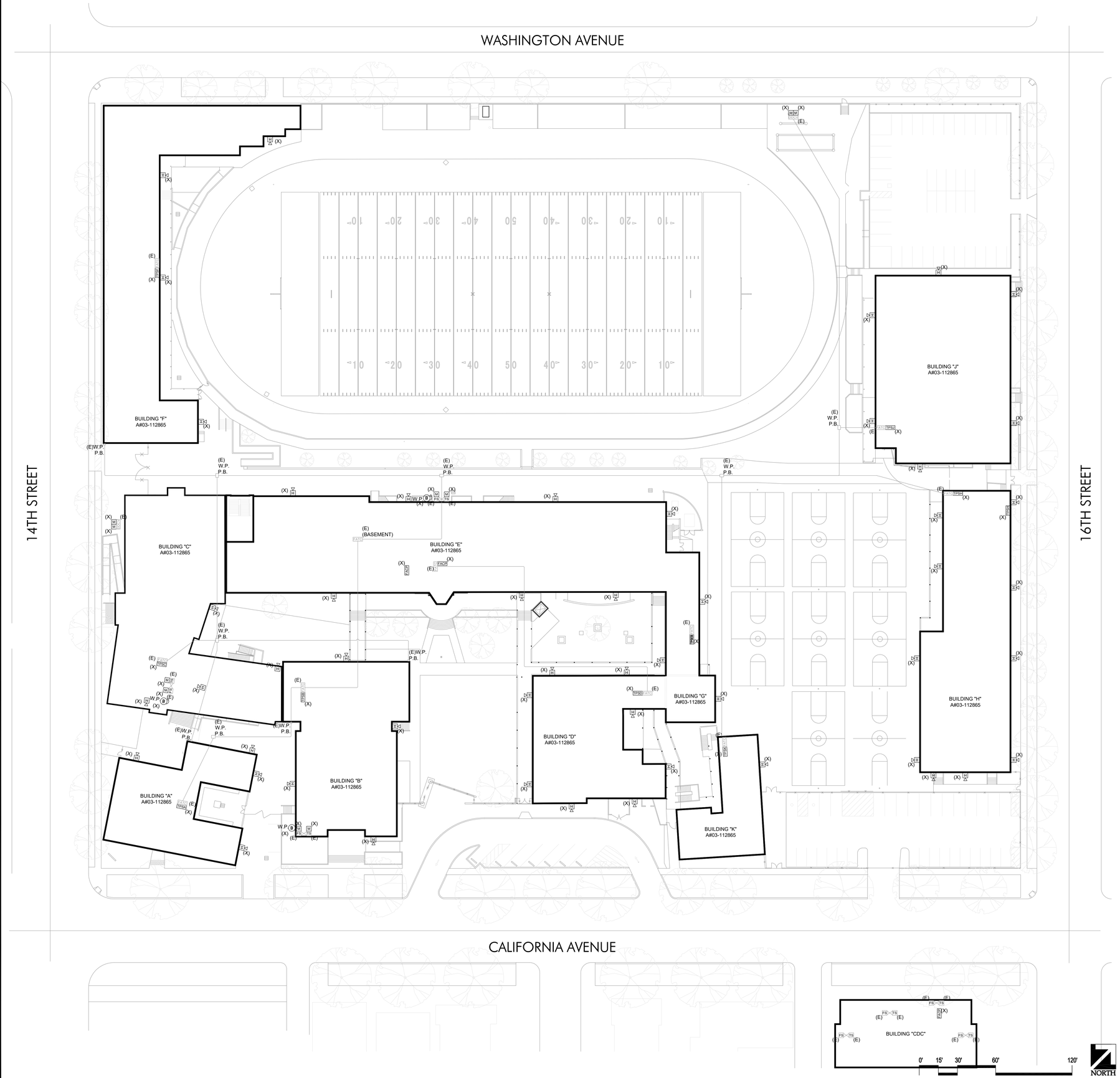
Sheet Title

Building 'K'
Roof Power Plan

Sheet Number

EK241

Plot Date: 11/26/2019 11:31:54 AM Last Save By: Tom Law Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\EK\SMMUSD-LMS-EK241.dwg



GENERAL NOTES

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REFERENCE NOTES

(1) NOT USED

KEY PLAN

FIRE ALARM DEMOLITION SITE PLAN | SCALE 1" = 30'-0" | 1

APPL. No. A 00-123456

DSA Stamp

Architect

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310.204.3400

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No. E 17233
Exp. 6-30-2020
ELECTRICAL
STATE OF CALIFORNIA

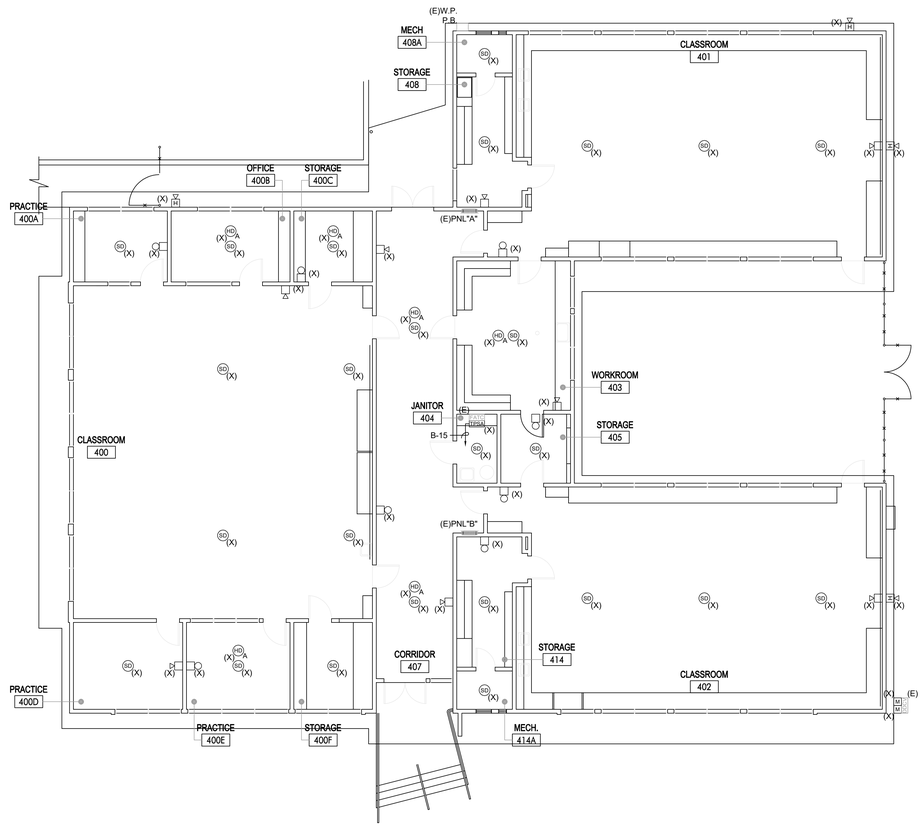
Sheet Title

Fire Alarm
Demolition
Site Plan

Sheet Number

E311

Plot Date: 11/26/2019 11:32:25 AM Last Save By: Rooney Login: Rungsub Sumethasorn J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\E\SAMUSD-LMS-E31X.dwg



NORTH

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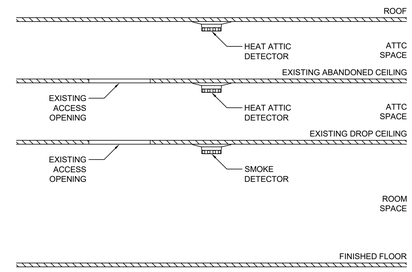
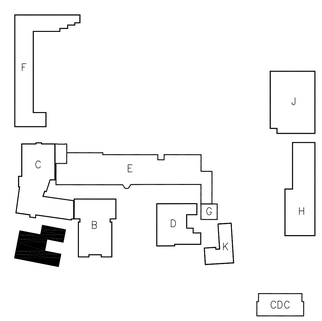
REFERENCE NOTES

(1) NOT USED

ATTIC SPACE DETAIL



KEY PLAN



NORTH

BUILDING "A" - FIRE ALARM DEMOLITION PLAN

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

APPL. No. A 00-123456

DSA Stamp

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Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Date: .....
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Checked By: BA

Architect / Engineer Stamp

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NO. C26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
No. E 17255
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

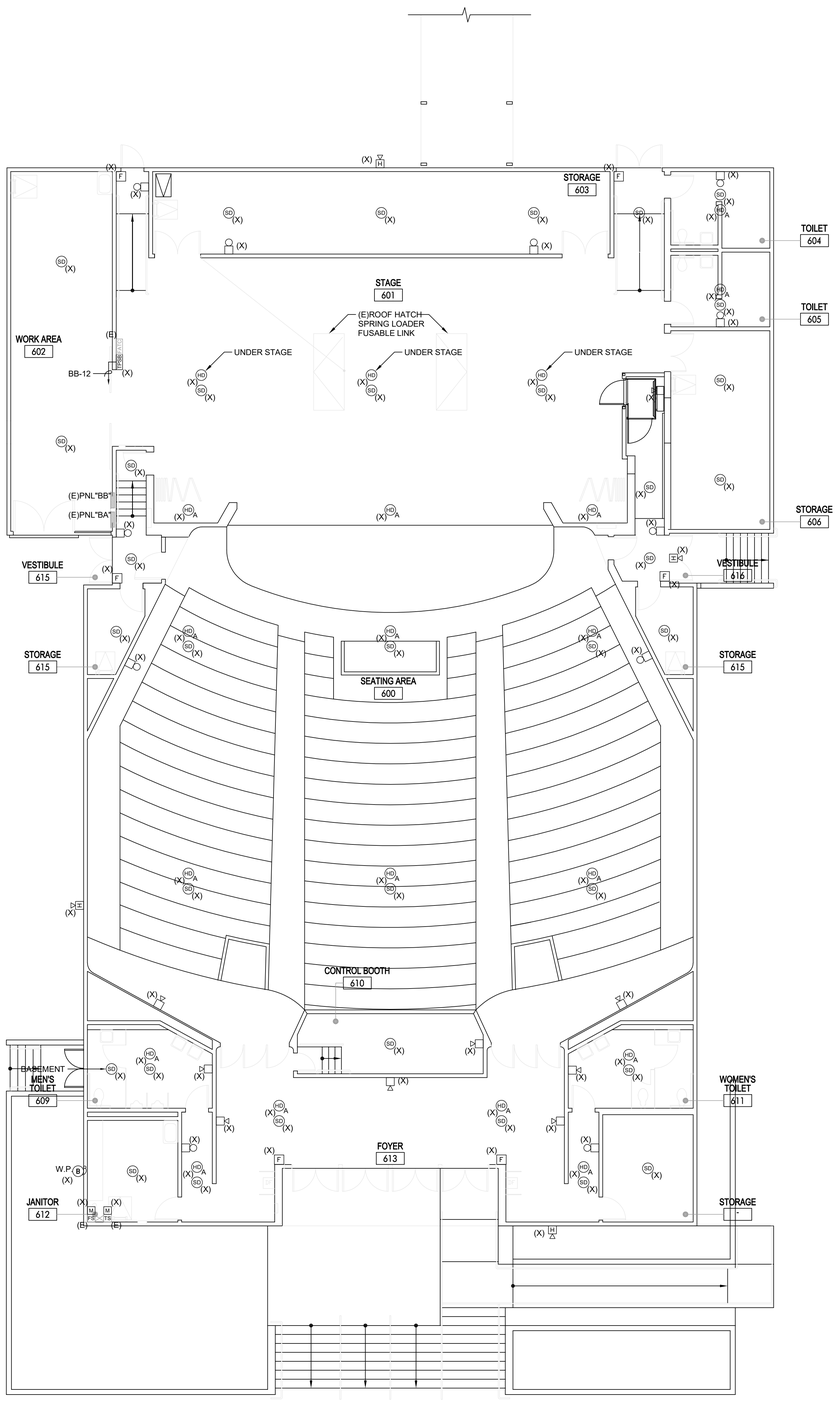
Sheet Title

Fire Alarm
Demolition
Building "A"
Floor Plan

Sheet Number

EA311

Plot Date: 11/26/2019 11:32:45 AM Last Save By: Bconey Login: Rungsuh Sunnethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-E31X.dwg



NORTH

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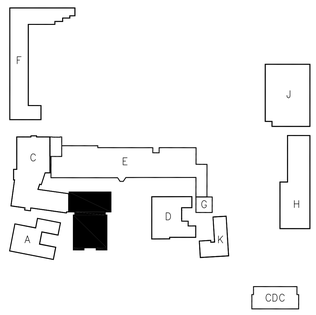
REFERENCE NOTES

(1) NOT USED

KEY PLAN



NORTH

BUILDING "B" - FIRE ALARM DEMOLITION PLAN | SCALE 1/8" = 1'-0" | 1

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DSA Stamp

Architect

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Culver City, CA 90232
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STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
No. E 17 7 2 2
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

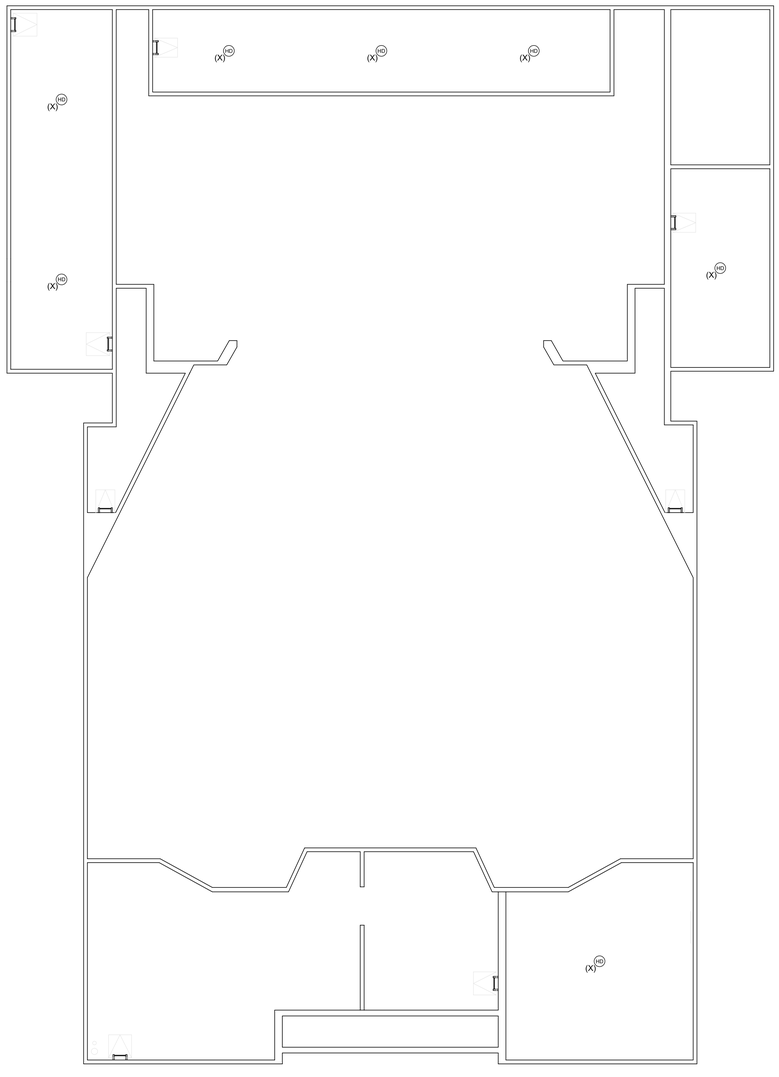
Sheet Title

Fire Alarm
Demolition
Building "B"
Floor Plan

Sheet Number

EB311

Plot Date: 11/26/2019 11:33:04 AM Last Save By: Rooney Login: Rangsub Sumethasom J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD-LMS-E311X.dwg



NORTH

BUILDING "B" - FIRE ALARM DEMOLITION MEZZANINE PLAN

SCALE 1/8" = 1'-0"

1

GENERAL NOTES

1. ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT/DEVICES SHOWN ARE FROM AVAILABLE RECORD DRAWINGS. ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY AND CONTRACTOR SHALL FIELD VERIFY AND PROVIDE ANY REMEDIATION TO PROVIDE FULLY OPERABLE FIRE ALARM SYSTEM.
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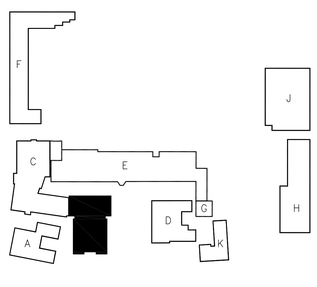
REFERENCE NOTES

(1) NOT USED

KEY PLAN



NORTH

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
	11.26.19	50% CD

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Checked By: BA

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NO. C26229
REN. 2-28-21
STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER
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No. E 17255
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Fire Alarm
Demolition
Building "B"
Mezzanine Floor
Plan

Sheet Number

EB312

Plot Date: 11/26/2019 11:33:24 AM Last Save By: Bconey Login: Rungsuh Sunethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-E31X.dwg

BUILDING "C" - FIRE ALARM DEMOLITION FIRST FLOOR PLAN

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

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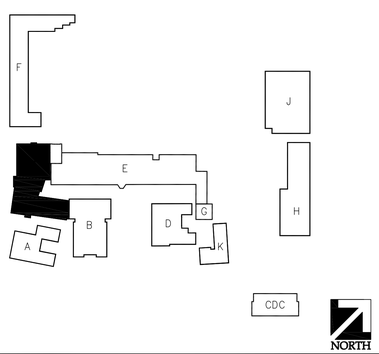

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STATE OF CALIFORNIA

Sheet Title

Fire Alarm
Demolition
Building "C"
First Floor Plan

Sheet Number

EC311

Plot Date: 11/26/2019 11:33:44 AM Last Save By: Rooney Login: Rungsuh Sumethasom J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-E311.dwg

BUILDING "C" - FIRE ALARM DEMOLITION SECOND FLOOR PLAN

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

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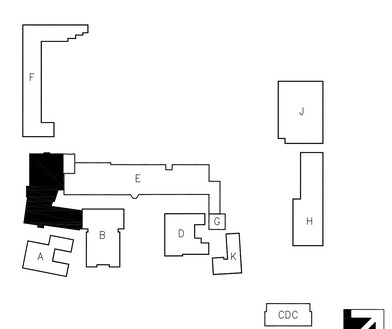

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Consultants

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ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Fire Alarm
Demolition
Building "C"
Second Floor Plan

Sheet Number

EC312

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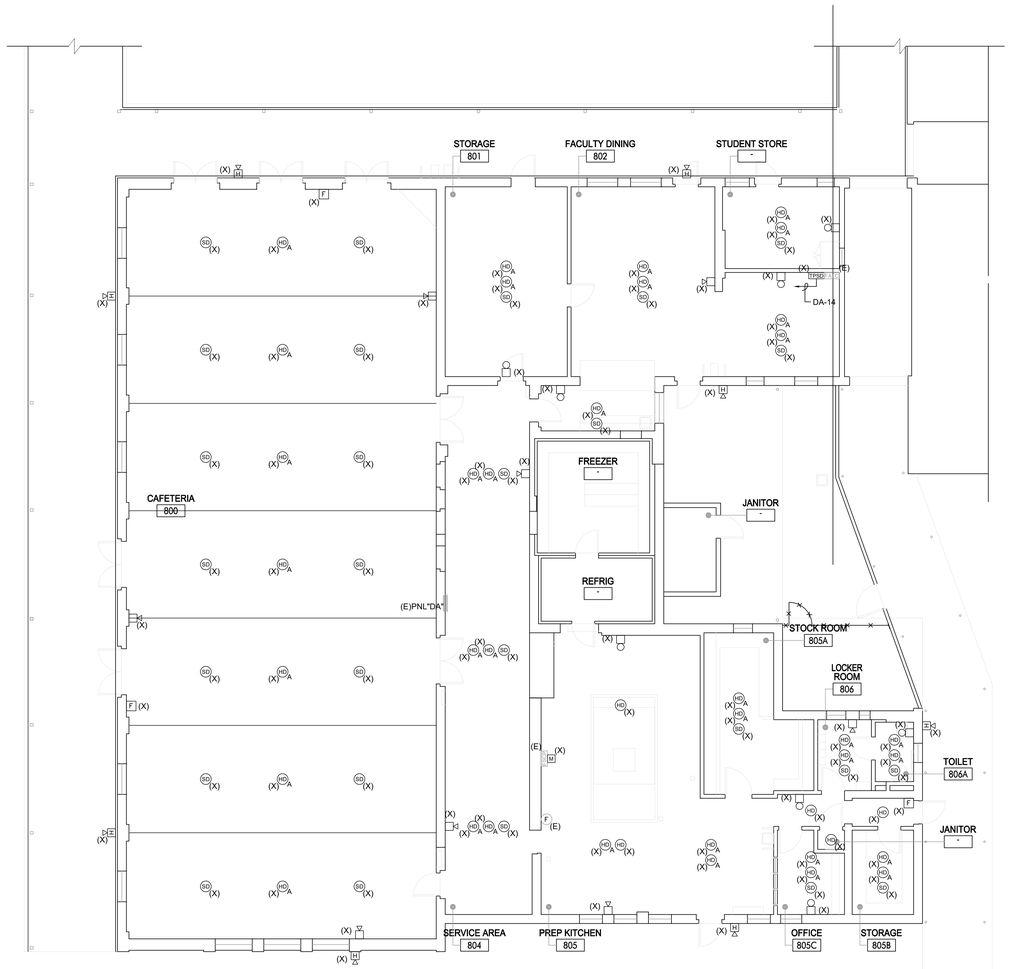

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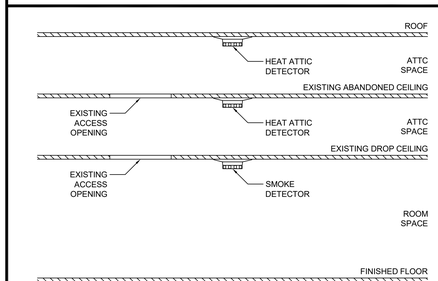

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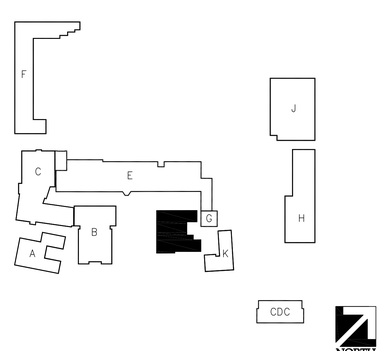

BUILDING "D" - FIRE ALARM DEMOLITION PLAN | SCALE 1/8" = 1'-0" | 1

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Lincoln Middle School
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Santa Monica, California 90403

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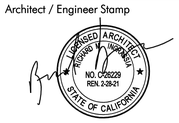


Consultants

Sheet Title

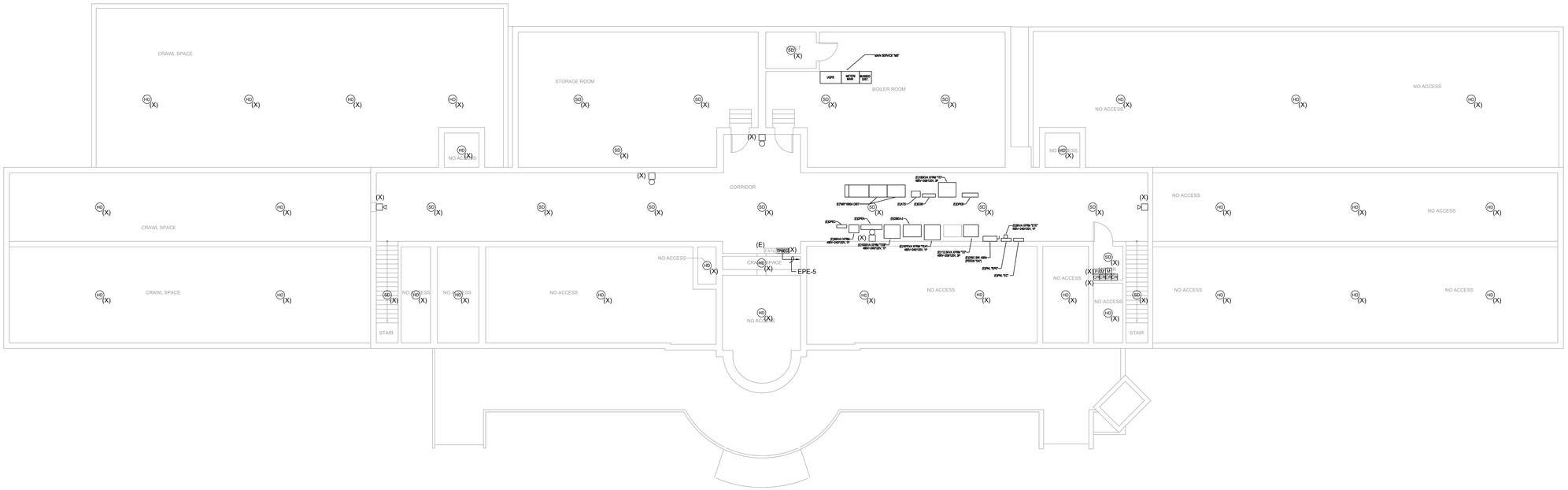
Fire Alarm
Demolition
Building "D"
Floor Plan

Sheet Number

ED311

Plot Date: 11/26/2019 11:34:24 AM Last Save By: Rooney Login: Rungpub Sumethasorn J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD LMS-E31X.dwg

BUILDING "E"



NORTH

BUILDING "E" - FIRE ALARM DEMOLITION BASEMENT FLOOR PLAN

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

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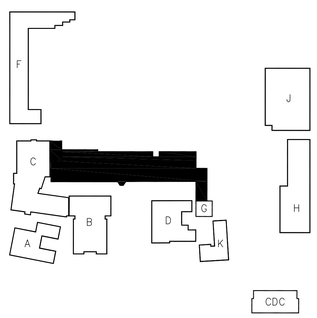
4. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE EXCAVATING FOR NEW UNDERGROUND UTILITIES. FIELD VERIFY AND COORDINATE PRIOR TO EXCAVATION. ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION IMMEDIATELY WITHOUT INTERRUPTION TO OPERATION OF FACILITIES AT NO ADDITIONAL COST TO THE OWNER. IT MAY BE NECESSARY TO RUN NEW UTILITIES UNDER/OVER EXISTING UTILITIES (CROSSOVER).
5. AUTOMATIC SHUTOFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR-HANDLING EQUIPMENT HAVE DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FEET. (CMC 608 EXCEMPTION#2)

REFERENCE NOTES

1. PROVIDE NEW (1)20A 1P CIRCUIT BREAKER TO ELECTRICAL PANEL, AS INDICATED. CIRCUIT BREAKER SHALL MATCH BY TYPE/STYLE/AIC RATING. PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, IDENTIFIED AS "FIRE ALARM CIRCUIT", AND LOCATION OF CIRCUIT BREAKER PERMANENTLY IDENTIFIED AT FIRE ALARM CONTROL UNIT IN COMPLIANCE WITH NFPA 72, 10.6.5.2.
2. HVAC UNIT (FIELD VERIFY EXACT LOCATION). PROVIDE AUTOMATIC SHUT OFF PER CMC 608. WITH CONTROL RELAY MODULE (4090-9002, IDNET RELAY IAM) AND 120V RELAY MODULES (2088-9008, FIRE ALARM CONTROL RELAY, 1 SPDT CONTACTS RATED 10A, 120VAC) (LOCATE ABOVE ACCESSIBLE CEILING SPACE BELOW HVAC UNIT). SEE WIRING DIAGRAM ON SHEET 8/E401. CONNECT 120V POWER CIRCUIT TO 120V RELAY MODULES. PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING.
3. PROVIDE NEW ACCESS PANEL. SEE ARCHITECTURAL DRAWINGS
4. EXISTING COOKING KITCHEN (TYPE 1 HOOD), CONNECT HEAT DETECTOR WITH SINGLE INPUT MODULE (4090-9001, IDNET SUPERVISED IAM) FOR MONITORING UL300 COMPLIANT FIRE SUPPRESSION SYSTEM. PROVIDE CONNECTION FROM ANSUL SYSTEM FOR FIRE ALARM SYSTEM MONITORING.
   PROVIDE CLASS K PORTABLE FIRE EXTINGUISHER OF A MINIMUM 1.5-GALLON CAPACITY FOR COMMERCIAL COOKING EQUIPMENT. FIELD VERIFY LOCATION WITHIN 30 FEET FROM COOKING SURFACE.
5. PROVIDE (2) DEDICATED PHONE LINES (ANALOG) TO MDF/IDF WITHIN THE BUILDING FOR REMOTE STATION MONITORING.
6. PROVIDE A SIGNAGE "FIRE ALARM CONTROL PANEL INSIDE" AT THE DOOR TO FACP/FCPS. SEE DETAIL ON 6/E402. PATCH/PAINT/REPAIR TO MATCH ADJACENT SURFACES

KEY PLAN



NORTH

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Exp.6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

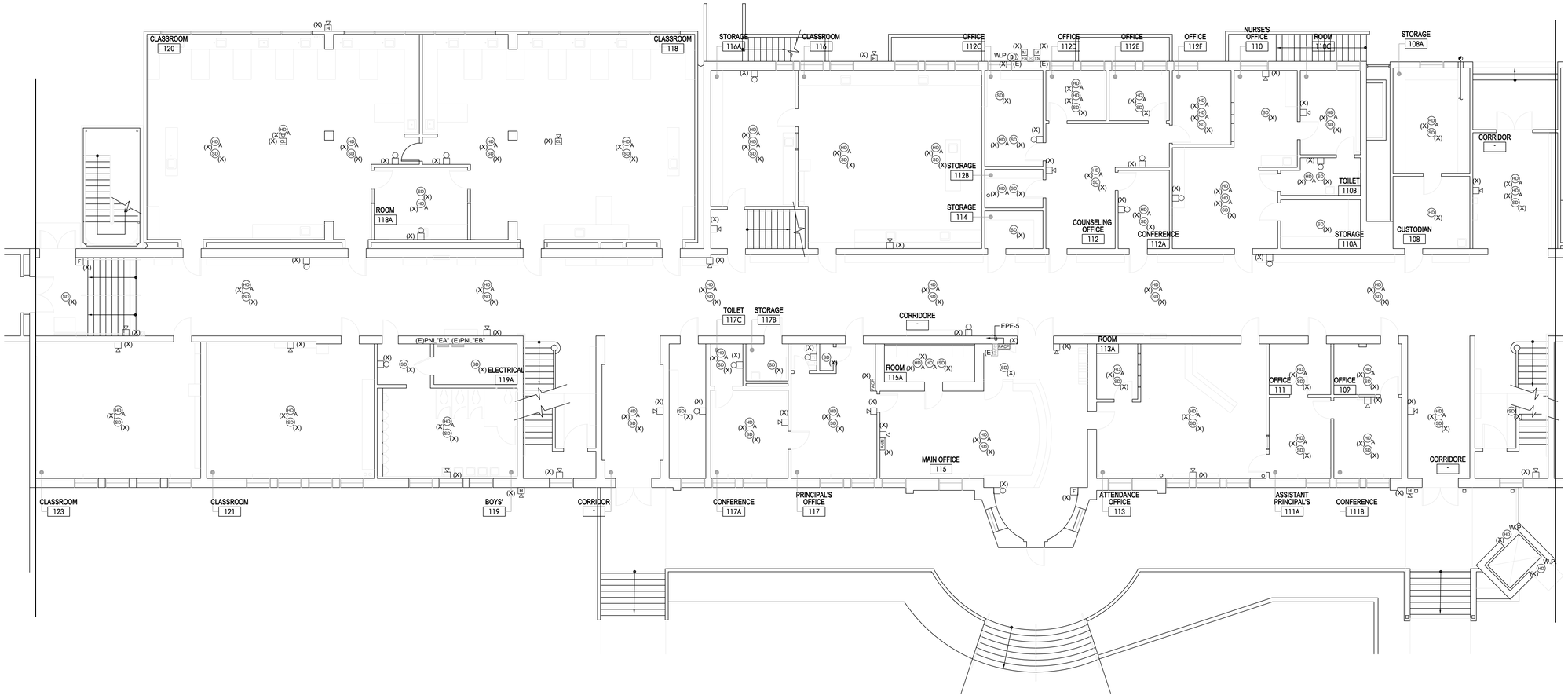
Sheet Title

Fire Alarm
Demolition
Building "E"
Basement Floor Plan

Sheet Number

EE310

Plot Date: 11/26/2019 11:34:44 AM Last Save By: Bcoxney Login: Rungsuh Sunnethasorn L:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\MUSD-LMS-E31X.dwg

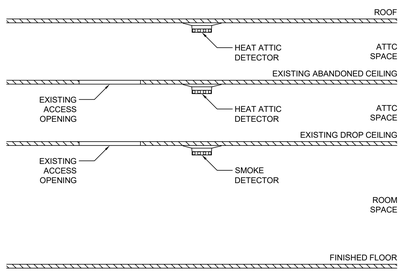


BUILDING "E" - FIRE ALARM DEMOLITION FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"

1

ATTIC SPACE DETAIL



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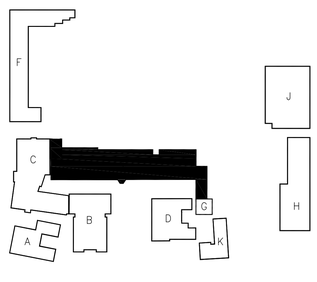

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Consultants

REGISTERED PROFESSIONAL ENGINEER THOMAS W. LAI No. E 17255 Exp. 6/30/2020 ELECTRICAL STATE OF CALIFORNIA

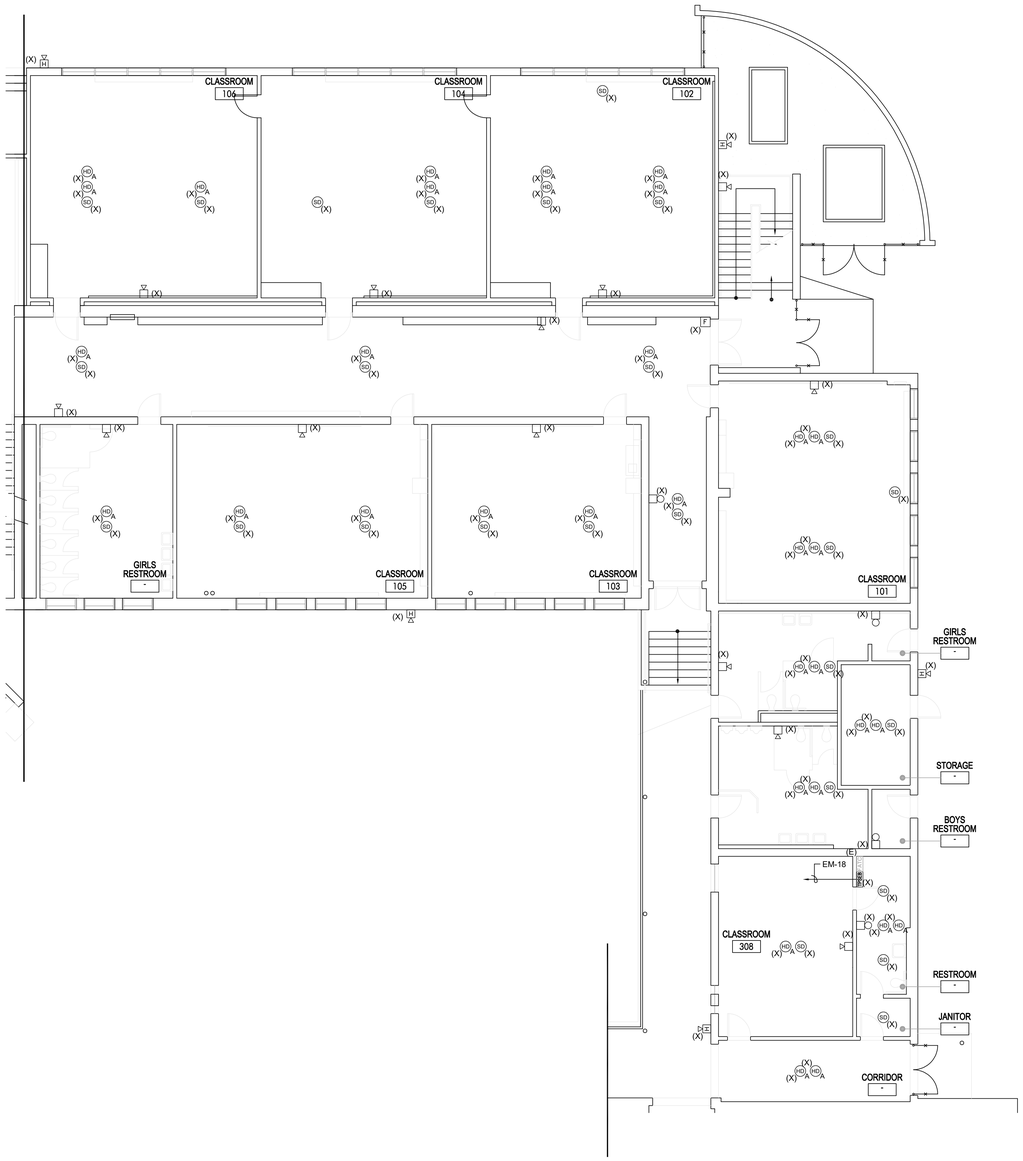
Sheet Title

Fire Alarm Demolition Building "E" First Floor Plan

Sheet Number

EE311A

Plot Date: 11/26/2019 11:35:03 AM Last Save By: Bcoxney Login: Rungsuh Sunnethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\MUSD-LMS-E31X.dwg

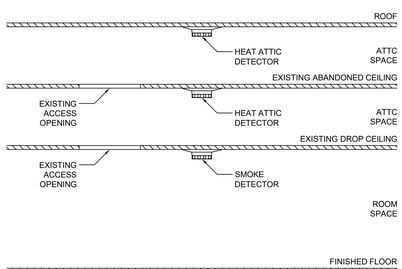


NORTH

BUILDING "E" - FIRE ALARM DEMOLITION FIRST FLOOR PLAN

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

ATTIC SPACE DETAIL



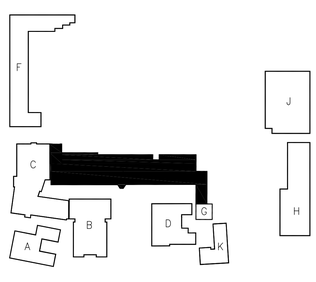
GENERAL NOTES

1. EXISTING CONDUIT MAYBE RE-USED FOR NEW WORK. PROVIDED THEY MEET MINIMUM CONDUIT SIZE REQUIREMENTS AND WIRE FILL CAPACITY (40%), OTHERWISE PROVIDE NEW CONDUITS. CONTRACTOR AT HIS OPTION MAY REUSE EXISTING CONDUITS WITHIN THE BUILDINGS/SITE AND PROVIDE NEW CONDUITS TO EXTEND TO NEW DEVICE LOCATIONS AS NECESSARY.
2. EXISTING FIRE ALARM SYSTEM SHALL BE MAINTAINED UNTIL NEW FIRE ALARM HAS BEEN INSTALLED AND TESTED. UNLESS FIRE WATCH IS PROVIDED.
3. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL BE IN COMPLIANCE WITH CFC 2016, CHAPTER 9, 11 AND 33 & CBC 2016, CHAPTER 33. PROVIDE FIRE WATCH UNTIL THE NEW SYSTEM IS IN OPERATION AND APPROVED BY I.O.R., DSA, LOCAL FIRE AUTHORITY, AND DISTRICT.
4. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE EXCAVATING FOR NEW UNDERGROUND UTILITIES. FIELD VERIFY AND COORDINATE PRIOR TO EXCAVATION. ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION IMMEDIATELY WITHOUT INTERRUPTION TO OPERATION OF FACILITIES AT NO ADDITIONAL COST TO THE OWNER. IT MAY BE NECESSARY TO RUN NEW UTILITIES UNDER/OVER EXISTING UTILITIES (CROSSOVER).
5. AUTOMATIC SHUTOFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR-HANDLING EQUIPMENT HAVE DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FEET. (CMC 608 EXCEMPTION#2)

REFERENCE NOTES

1. PROVIDE NEW (1)20A 1P CIRCUIT BREAKER TO ELECTRICAL PANEL, AS INDICATED. CIRCUIT BREAKER SHALL MATCH BY TYPE/STYLE/AIC RATING. PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, IDENTIFIED AS "FIRE ALARM CIRCUIT", AND LOCATION OF CIRCUIT BREAKER PERMANENTLY IDENTIFIED AT FIRE ALARM CONTROL UNIT IN COMPLIANCE WITH NFPA 72, 10.6.5.2.
2. HVAC UNIT (FIELD VERIFY EXACT LOCATION). PROVIDE AUTOMATIC SHUT OFF PER CMC 608. WITH CONTROL RELAY MODULE (4090-9002, IDNET RELAY IAM) AND 120V RELAY MODULES (2088-9008, FIRE ALARM CONTROL RELAY, 1 SPDT CONTACTS RATED 10A, 120VAC) (LOCATE ABOVE ACCESSIBLE CEILING SPACE BELOW HVAC UNIT). SEE WIRING DIAGRAM ON SHEET 8/E401. CONNECT 120V POWER CIRCUIT TO 120V RELAY MODULES. PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING.
3. PROVIDE NEW ACCESS PANEL. SEE ARCHITECTURAL DRAWINGS
4. EXISTING COOKING KITCHEN (TYPE 1 HOOD), CONNECT HEAT DETECTOR WITH SINGLE INPUT MODULE (4090-9001, IDNET SUPERVISED IAM) FOR MONITORING UL300 COMPLAINT FIRE SUPPRESSION SYSTEM. PROVIDE CONNECTION FROM ANSUL SYSTEM FOR FIRE ALARM SYSTEM MONITORING.
   PROVIDE CLASS K PORTABLE FIRE EXTINGUISHER OF A MINIMUM 1.5-GALLON CAPACITY FOR COMMERCIAL COOKING EQUIPMENT. FIELD VERIFY LOCATION WITHIN 30 FEET FROM COOKING SURFACE.
5. PROVIDE (2) DEDICATED PHONE LINES (ANALOG) TO MDF/IDF WITHIN THE BUILDING FOR REMOTE STATION MONITORING.
6. PROVIDE A SIGNAGE "FIRE ALARM CONTROL PANEL INSIDE" AT THE DOOR TO FACP/FCPS. SEE DETAIL ON 6/E402. PATCH/PAINT/REPAIR TO MATCH ADJACENT SURFACES

KEY PLAN



NORTH

APPL. No. A 00-123456

DSA Stamp

Architect

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310.204.3400

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
	11.26.19	50% CD

Date: .....
Scale: As Shown
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Checked By: BA

Architect / Engineer Stamp

LICENSED ARCHITECT
BRIAN ALLEN ROSENBERG
NO. C28229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
CHARLES W. LEE
No. E 17543
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

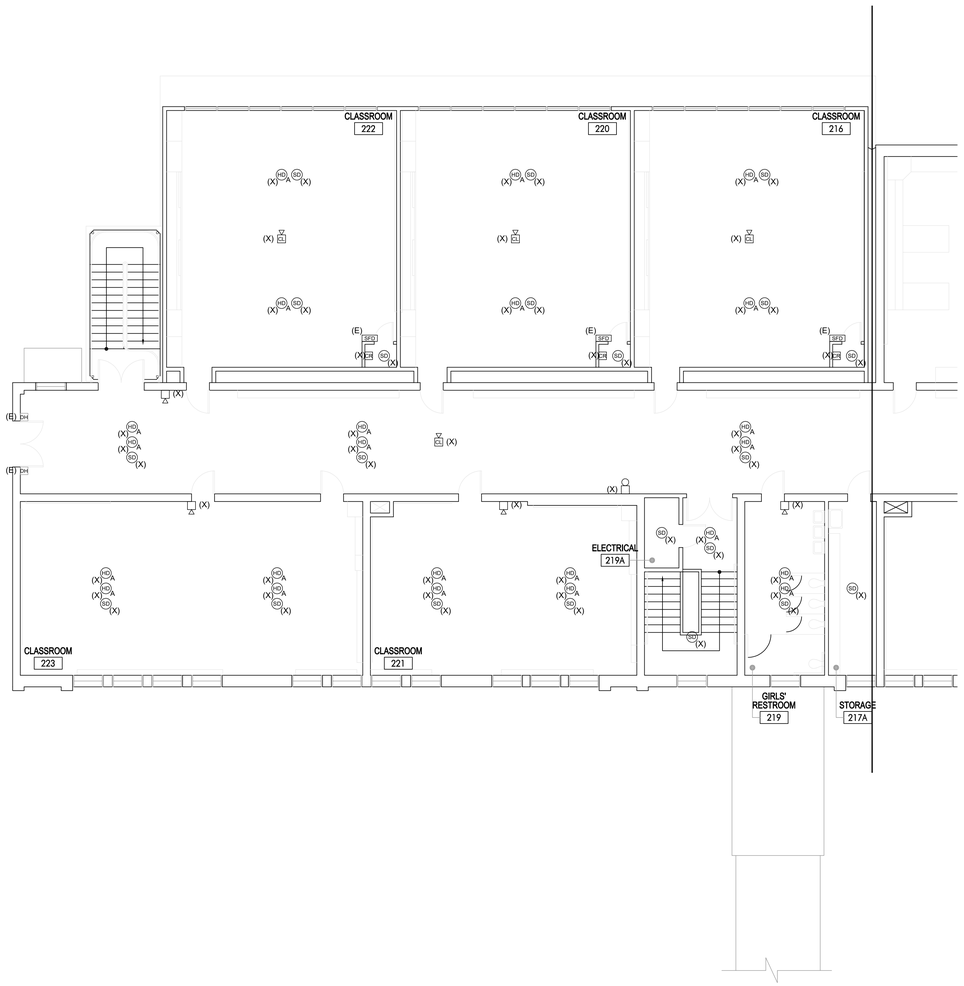
Sheet Title

Fire Alarm
Demolition
Building "E"
First Floor Plan

Sheet Number

EE311B

Plot Date: 11/26/2019 11:35:22 AM Last Save By: Rooney Login: Rungsuh Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-E311E.dwg

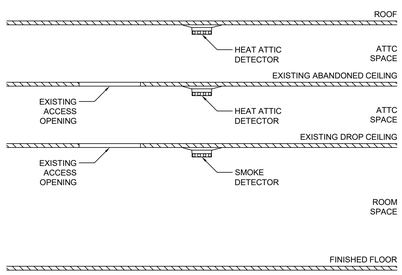


BUILDING "E" - FIRE ALARM DEMOLITION SECOND FLOOR PLAN

SCALE 1/8" = 1'-0"

1

ATTIC SPACE DETAIL



GENERAL NOTES

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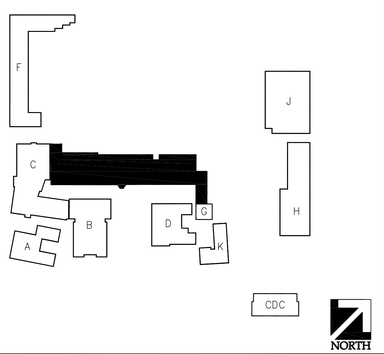
REFERENCE NOTES

(1) NOT USED

KEY PLAN



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DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
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Date: .....
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Checked By: BA

Architect / Engineer Stamp

LICENSED ARCHITECT
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REN. 2-28-21
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Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
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Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

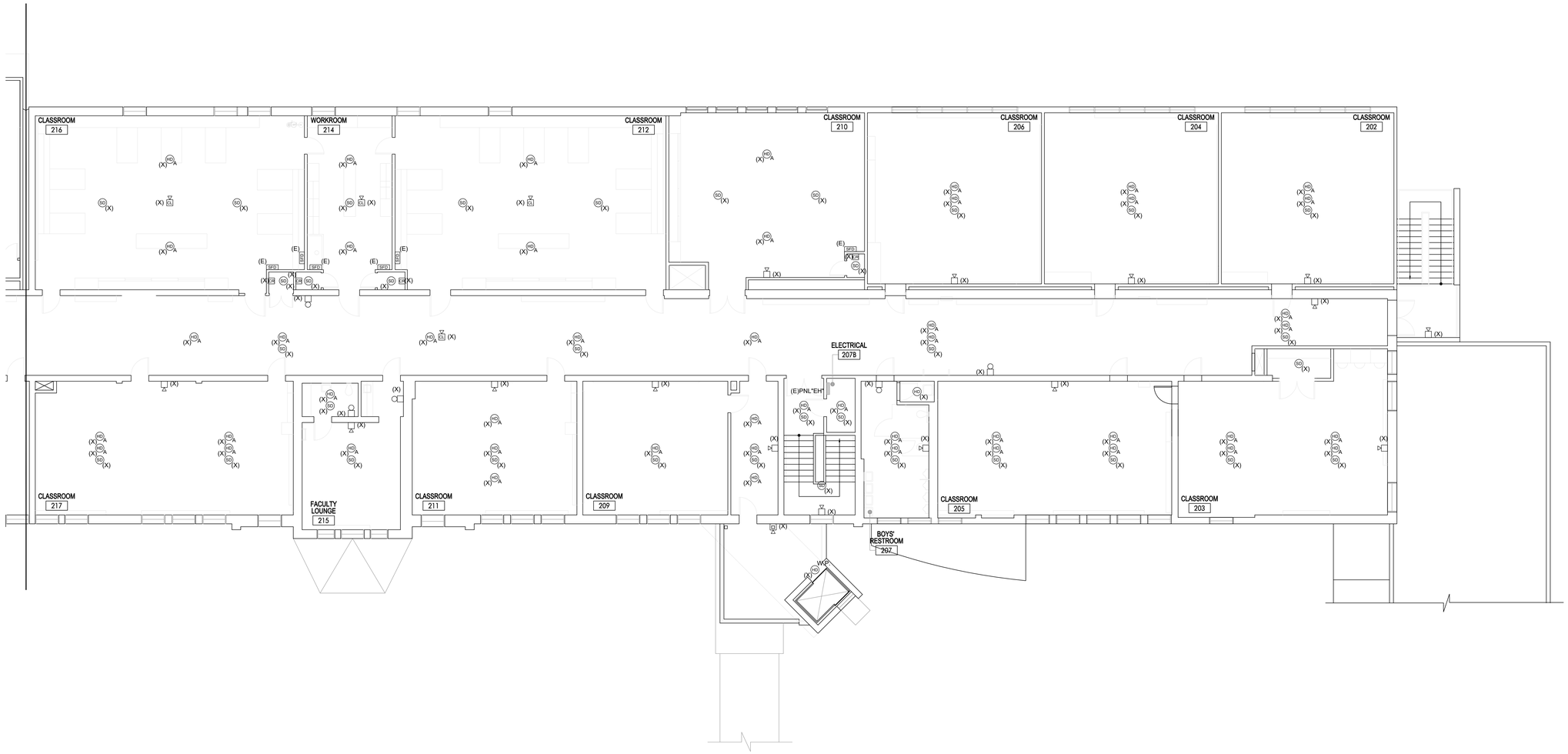
Sheet Title

Fire Alarm
Demolition
Building "E"
Second Floor Plan

Sheet Number

EE312A

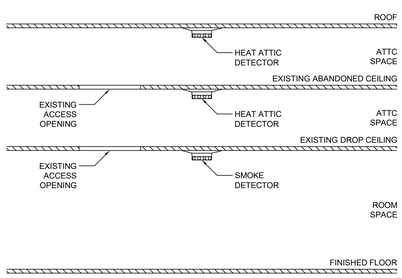
Plot Date: 11/26/2019 11:35:42 AM Last Save By: Rooney Login: Rangsub Sumethasom J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD-LMS-E312.dwg



BUILDING "E" - FIRE ALARM DEMOLITION SECOND FLOOR PLAN

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

ATTIC SPACE DETAIL



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REFERENCE NOTES

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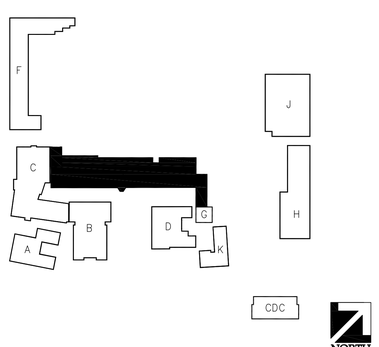
KEY PLAN



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Architect

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Santa Monica, California 90403

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Checked By: BA

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LICENSED ARCHITECT RICHARD M. RACHLIN NO. C26229 REN. 3-28-21 STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER THOMAS W. LANG No. E 17255 Exp. 6/30/2020 ELECTRICAL STATE OF CALIFORNIA

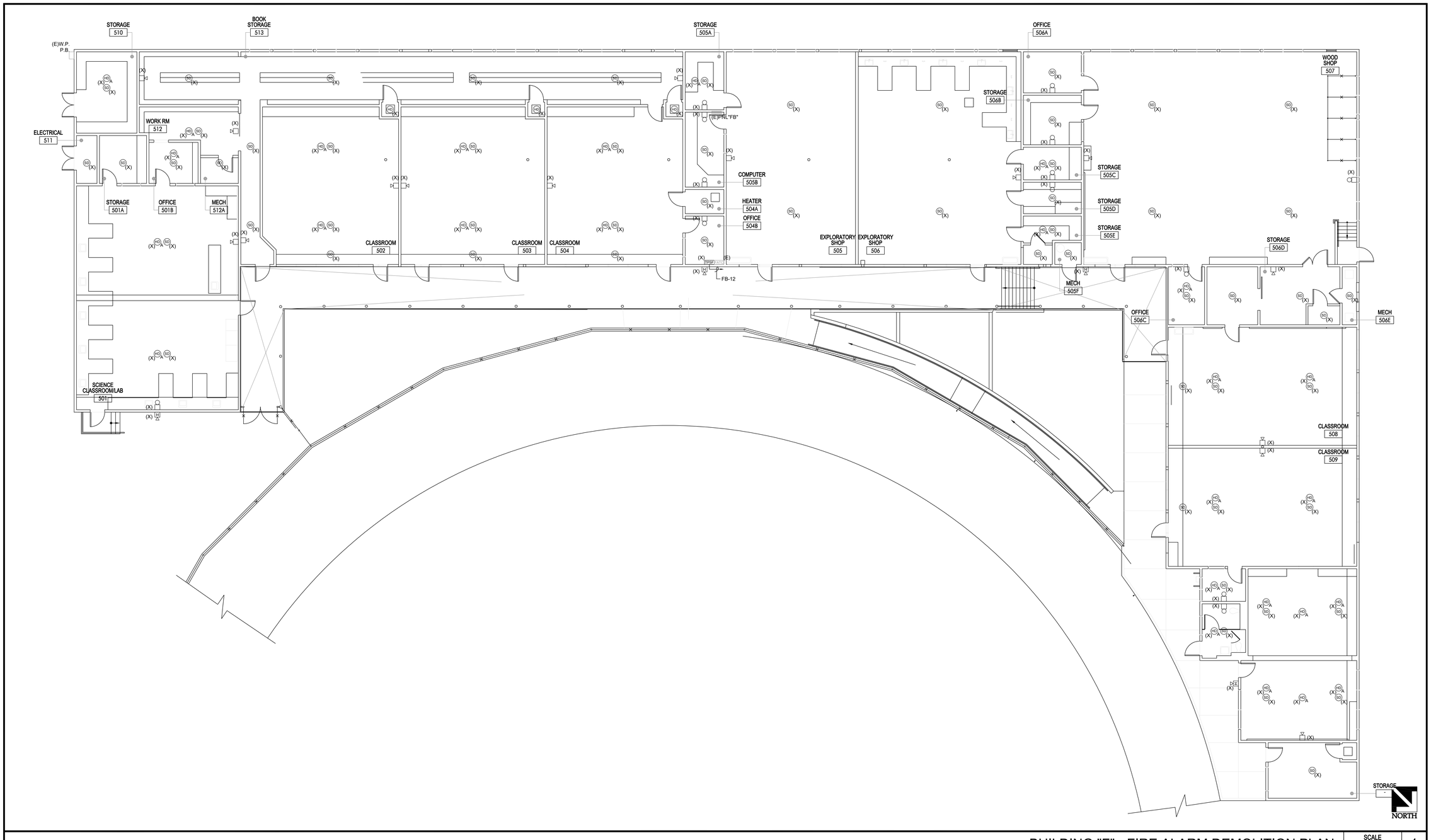
Sheet Title

Fire Alarm
Demolition
Building "E"
Second Floor Plan

Sheet Number

EE312B

Plot Date: 11/26/2019 11:36:01 AM Last Save By: Rooney Login: Rungsuk Sumethasorn J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD LMS-E31X.dwg



BUILDING "F" - FIRE ALARM DEMOLITION PLAN

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

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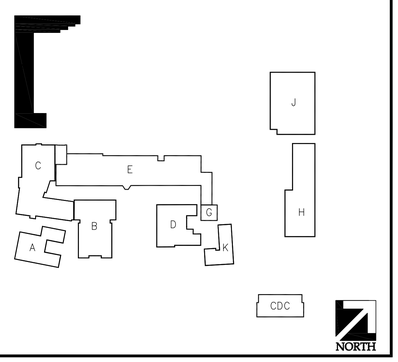

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Lincoln Middle School HVAC Replacement Project

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LICENSED ARCHITECT
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NO. C26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
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Exp 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

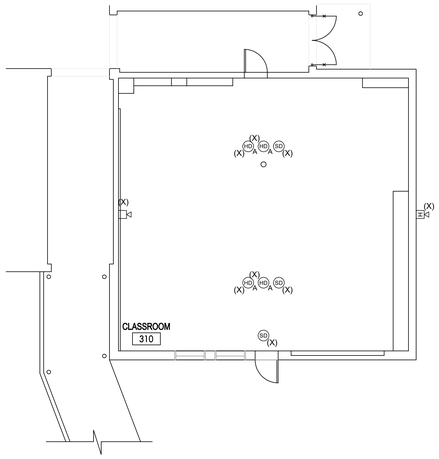
Sheet Title

Fire Alarm Demolition Building "F" Floor Plan

Sheet Number

EF311

Plot Date: 11/26/2019 11:36:21 AM Last Save By: Bconey Login: Rungsuh Sunnehasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-E31X.dwg



NORTH

BUILDING "G" - FIRE ALARM DEMOLITION PLAN

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

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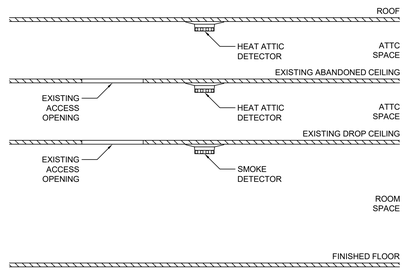
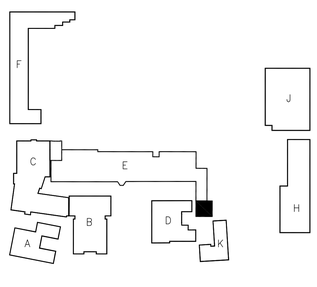


KEY PLAN



NORTH

APPL. No. A 00-123456

DSA Stamp

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Culver City, CA 90232
310.204.3400

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LICENSED ARCHITECT
BRIAN A. ABRAMS
NO. C26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
No. E 17255
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

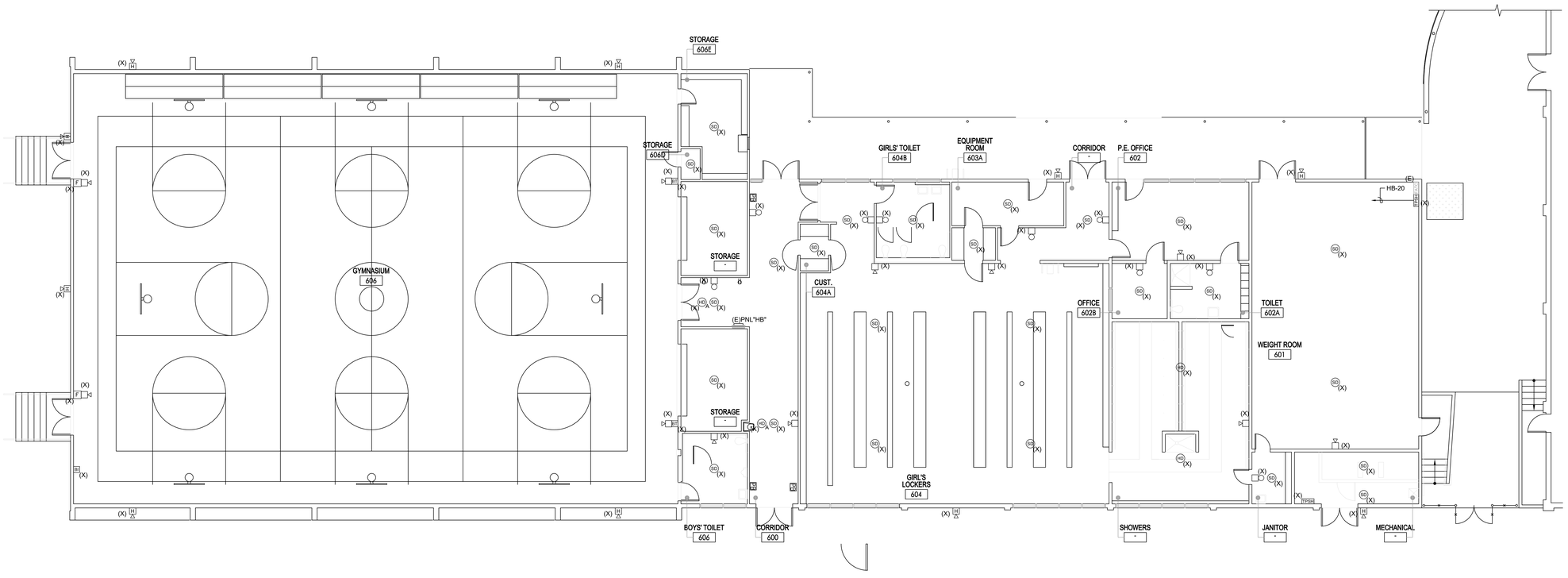
Sheet Title

Fire Alarm
Demolition
Building "G"
Floor Plan

Sheet Number

EG311

Plot Date: 11/26/2019 11:36:40 AM Last Save By: Bconey Login: Rungsuh Sunnethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-E31X.dwg



BUILDING "H" - FIRE ALARM DEMOLITION PLAN

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

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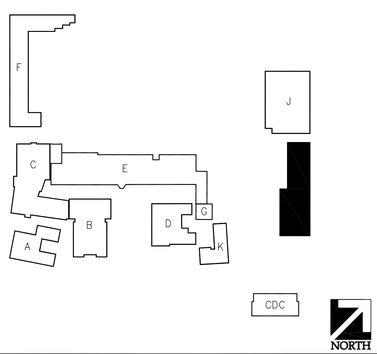
KEY PLAN



APPL. No. A 00-123456

DSA Stamp

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
	11.26.19	50% CD

Date: .....
Scale: As Shown
Drawn By: RS, TL
Checked By: BA

Architect / Engineer Stamp

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STATE OF CALIFORNIA

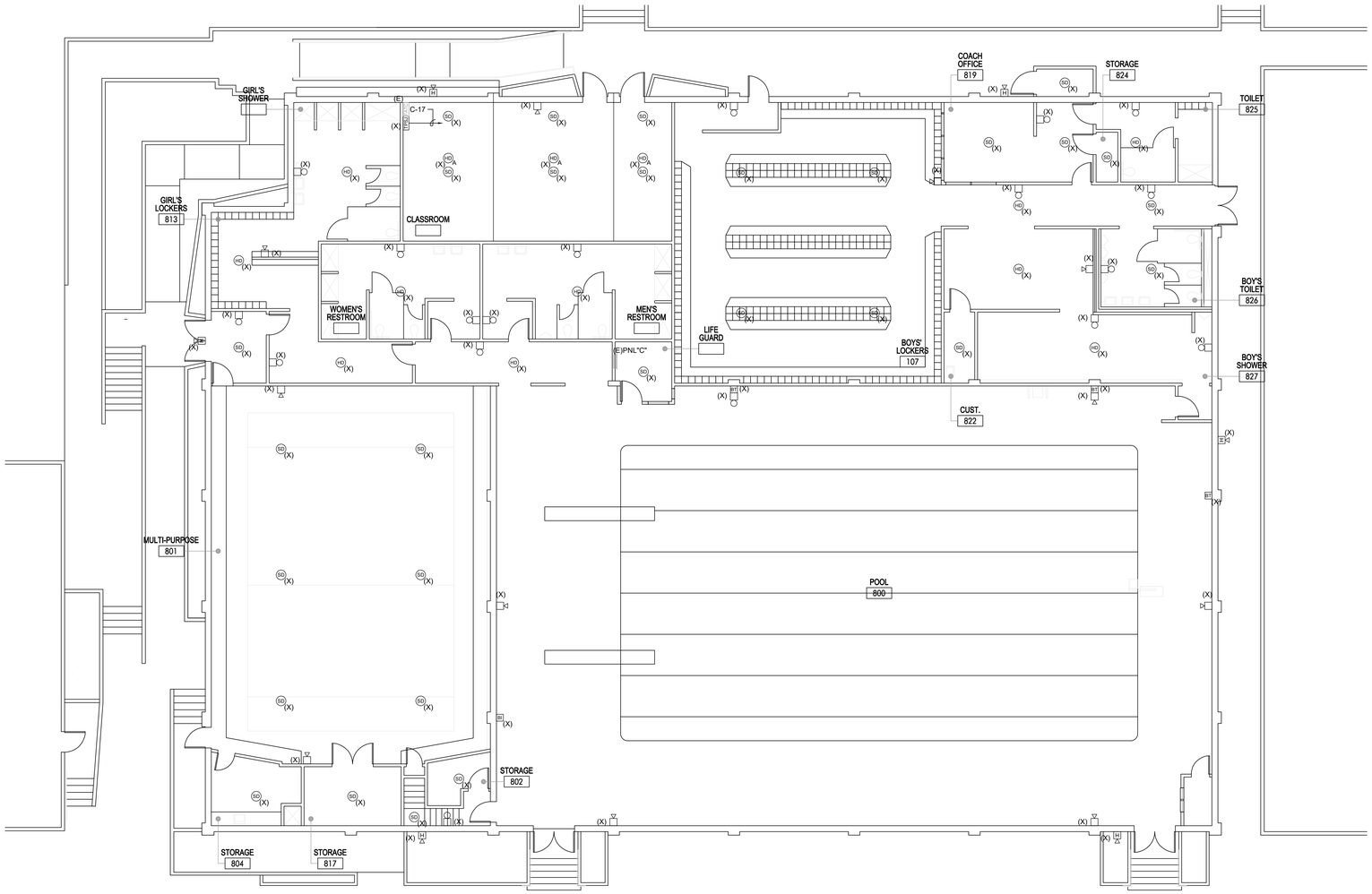
Sheet Title

Fire Alarm
Demolition
Building "H"
Floor Plan

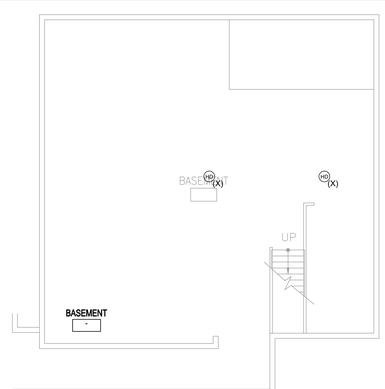
Sheet Number

EH311

Plot Date: 11/26/2019 11:36:59 AM Last Save By: Rooney Login: Rangsub Sumethasom J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-E311X.dwg



BUILDING "J" - FIRE ALARM DEMOLITION PLAN | SCALE 1/8" = 1"-0" | 1



BUILDING "J" - FIRE ALARM DEMOLITION BASEMENT PLAN | SCALE 1/8" = 1"-0" | 2

GENERAL NOTES

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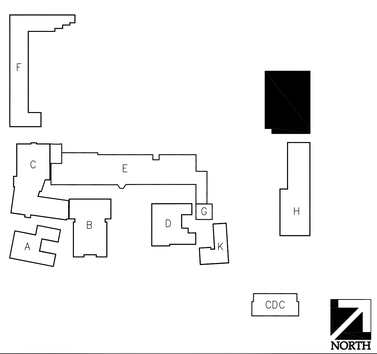
REFERENCE NOTES

(1) NOT USED

KEY PLAN



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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
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Checked By: BA

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ELECTRICAL
STATE OF CALIFORNIA

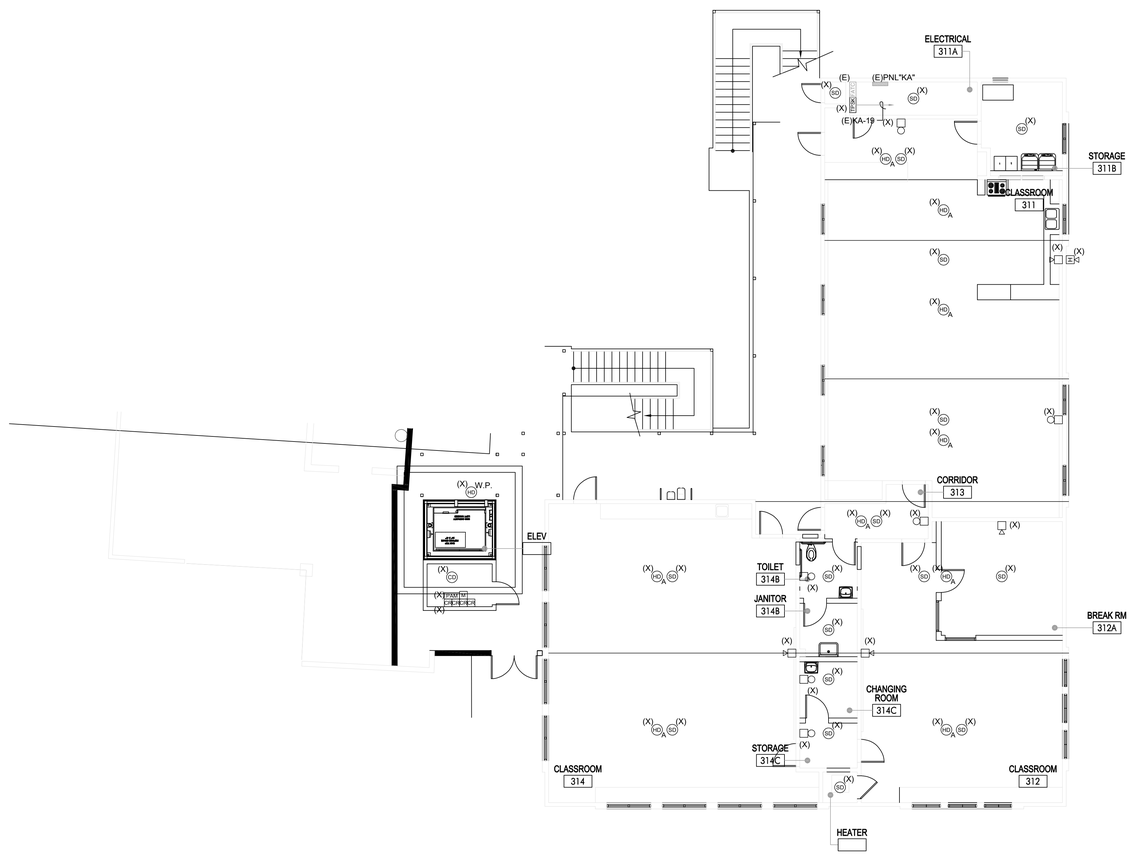
Sheet Title

Fire Alarm
Demolition
Building "J"
Floor Plan

Sheet Number

EJ311

Plot Date: 11/26/2019 11:37:19 AM Last Save By: Rooney Login: Rangsuh Sumethasom J:\Project Files\2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD-LMS-E311x.dwg



NORTH

BUILDING "K" - FIRE ALARM DEMOLITION FIRST FLOOR PLAN

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

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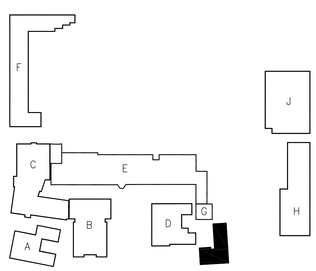

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STATE OF CALIFORNIA

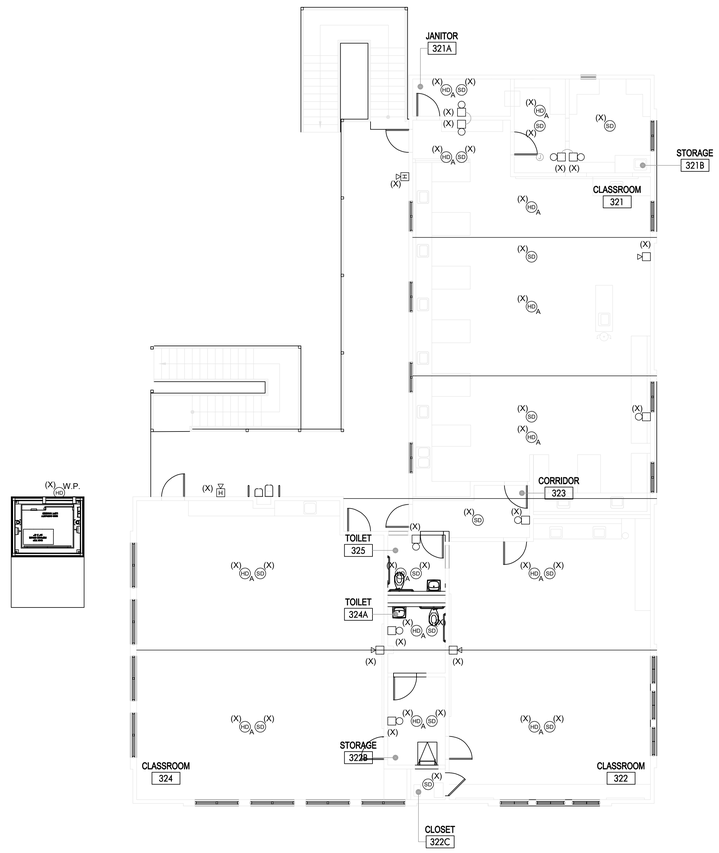
Sheet Title

Fire Alarm
Demolition
Building "K"
First Floor Plan

Sheet Number

EK311

Plot Date: 11/26/2019 11:37:39 AM Last Save By: Rooney Login: Rungsuh Sumethasom J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD-LMS-E313.dwg



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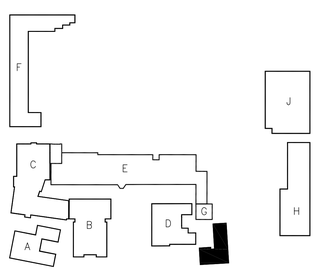

NORTH

BUILDING "K" - FIRE ALARM DEMOLITION SECOND FLOOR PLAN

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

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Lincoln Middle School HVAC Replacement Project

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Consultants

REGISTERED PROFESSIONAL ENGINEER
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No. E 17 [illegible]
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

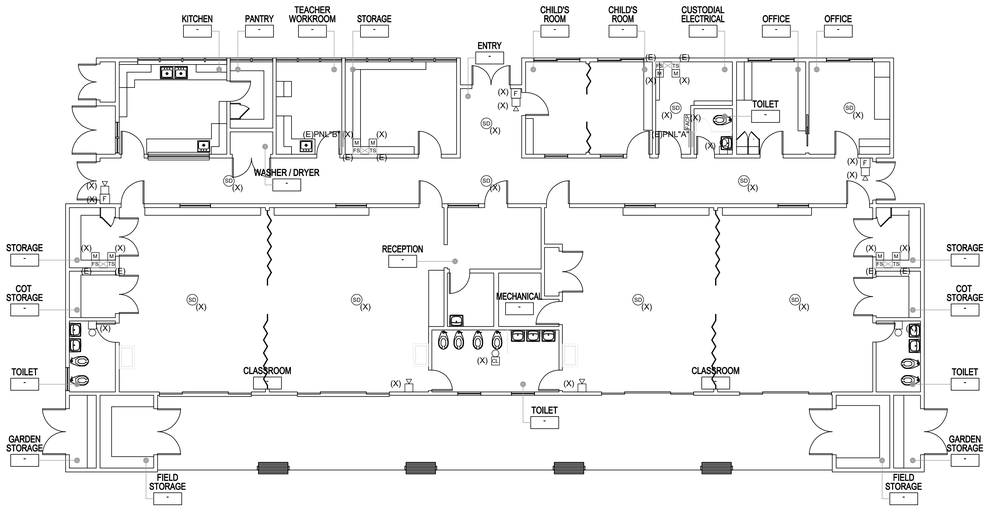
Sheet Title

Fire Alarm
Demolition
Building "K"
Second Floor Plan

Sheet Number

EK312

Plot Date: 11/26/2019 11:37:59 AM Last Save By: Rooney Login: Rungsuh Sumethasom J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-E312.dwg



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REFERENCE NOTES

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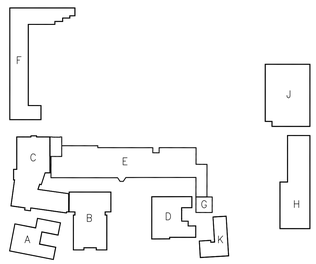
KEY PLAN



NORTH

Child Development Center (CDC) - FIRE ALARM DEMOLITION PLAN

SCALE 1/8" = 1'-0"

1

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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STATE OF CALIFORNIA

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Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

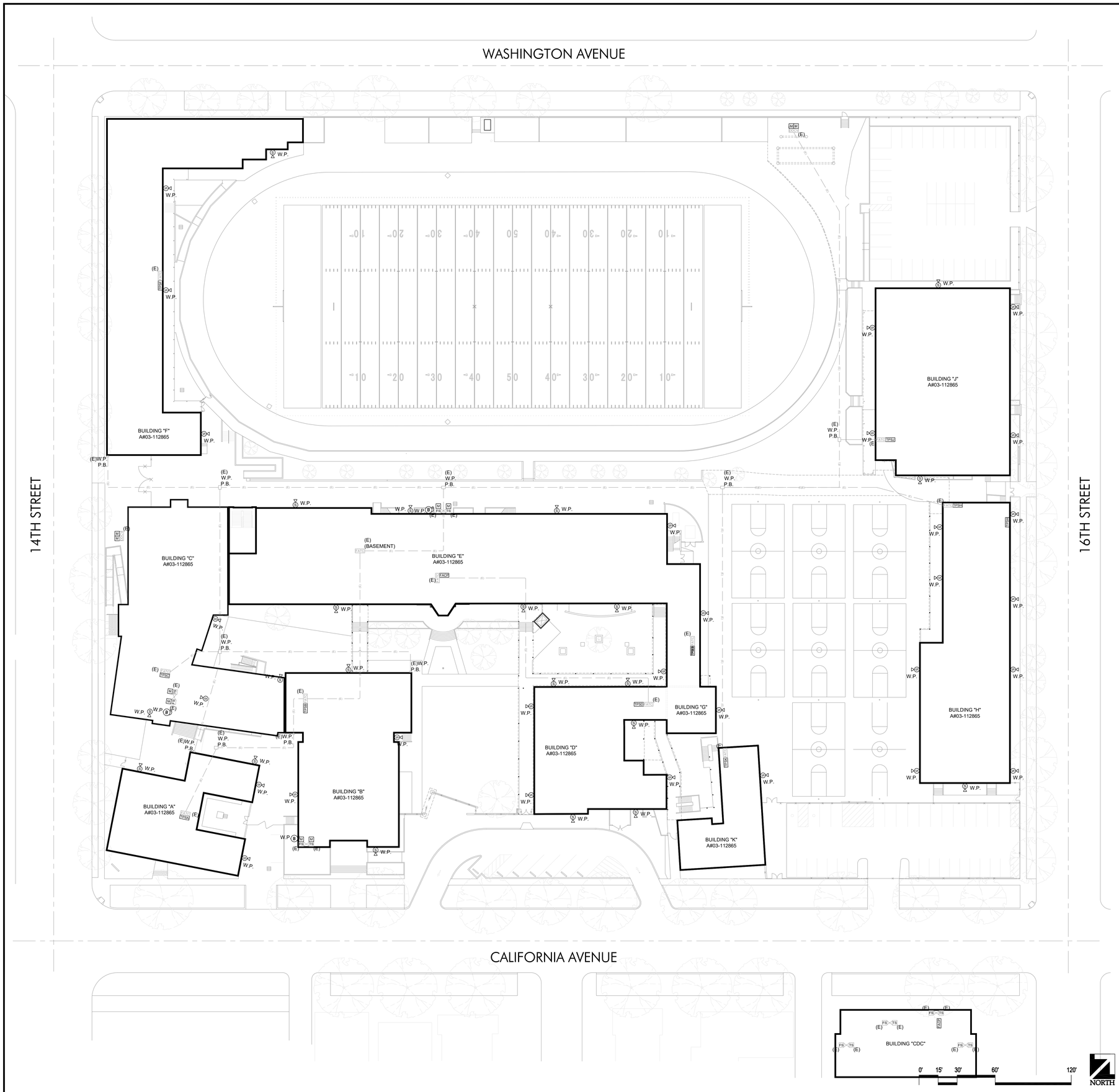
Sheet Title

Fire Alarm
Demolition
Child Development
Center (CDC)
Floor Plan

Sheet Number

ECDC311

Plot Date: 11/26/2019 11:38:19 AM Last Save By: Bconey Login: Rungsuh Sunethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-E31X.dwg



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REFERENCE NOTES

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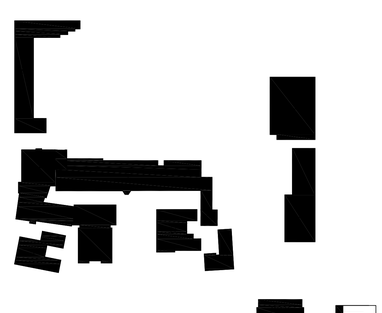
KEY PLAN



FIRE ALARM SITE PLAN | SCALE 1" = 30'-0" | 1

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Architect

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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REN. 2-28-21
STATE OF CALIFORNIA

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Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

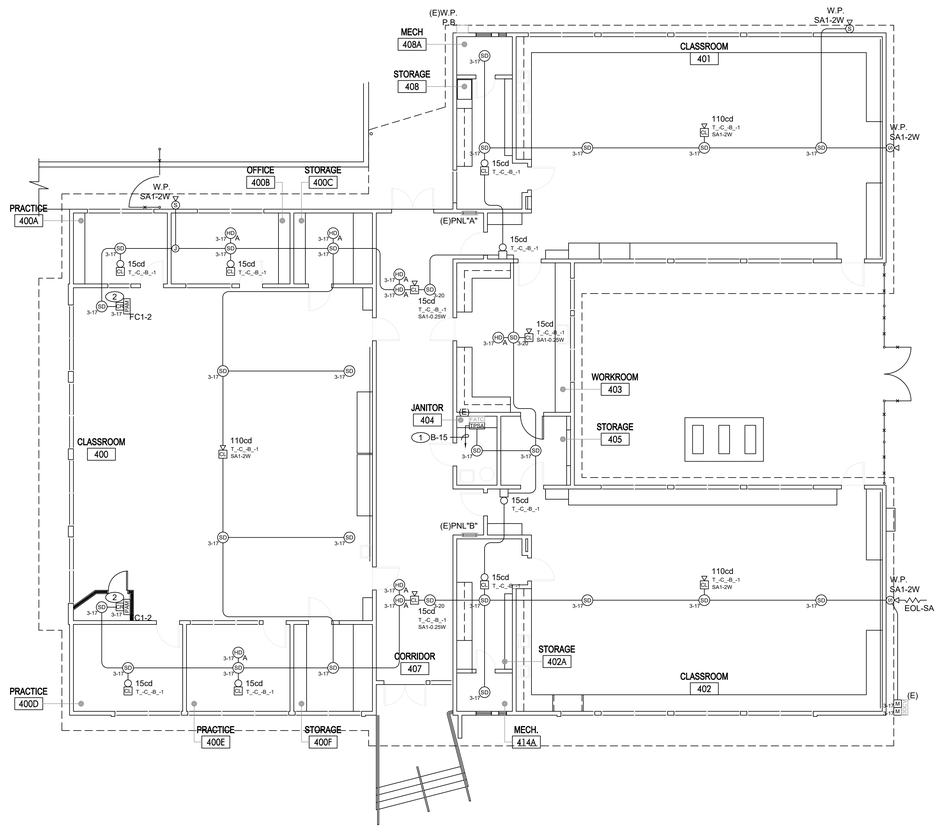
Sheet Title

Fire Alarm
Site Plan

Sheet Number

E321

Plot Date: 11/26/2019 11:38:45 AM Last Save By: Rooney Login: Rungsuk Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\FI\SMMUSD-LMS-E32X.dwg



NORTH

BUILDING "A" - FIRE ALARM PLAN

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

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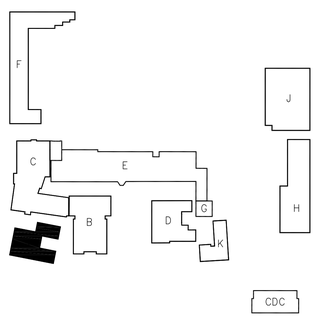
4. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE EXCAVATING FOR NEW UNDERGROUND UTILITIES. FIELD VERIFY AND COORDINATE PRIOR TO EXCAVATION. ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION IMMEDIATELY WITHOUT INTERRUPTION TO OPERATION OF FACILITIES AT NO ADDITIONAL COST TO THE OWNER. IT MAY BE NECESSARY TO RUN NEW UTILITIES UNDER/OVER EXISTING UTILITIES (CROSSOVER).
5. AUTOMATIC SHUTOFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR-HANDLING EQUIPMENT HAVE DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FEET. (CMC 608 EXCEMPTION#2)

REFERENCE NOTES

1. PROVIDE NEW (1)20A 1P CIRCUIT BREAKER TO ELECTRICAL PANEL, AS INDICATED. CIRCUIT BREAKER SHALL MATCH BY TYPE/STYLE/AIC RATING. PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, IDENTIFIED AS "FIRE ALARM CIRCUIT", AND LOCATION OF CIRCUIT BREAKER PERMANENTLY IDENTIFIED AT FIRE ALARM CONTROL UNIT IN COMPLIANCE WITH NFPA 72, 10.6.5.2.
2. HVAC UNIT (FIELD VERIFY EXACT LOCATION). PROVIDE AUTOMATIC SHUT OFF PER CMC 608. WITH CONTROL RELAY MODULE (4090-9002, IDNET RELAY (AM) AND 120V RELAY MODULES (2088-9008, FIRE ALARM CONTROL RELAY, 1 SPDT CONTACTS RATED 10A, 120VAC) (LOCATE ABOVE ACCESSIBLE CEILING SPACE BELOW HVAC UNIT). SEE WIRING DIAGRAM ON SHEET 8/E401. CONNECT 120V POWER CIRCUIT TO 120V RELAY MODULES. PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING.
3. PROVIDE NEW ACCESS PANEL. SEE ARCHITECTURAL DRAWINGS

KEY PLAN



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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
	11.26.19	50% CD

Date: .....
Scale: As Shown
Drawn By: RS, TL
Checked By: BA

Architect / Engineer Stamp

LICENSED ARCHITECT
BRIAN A. BARNEY
NO. C26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
No. E 17255
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

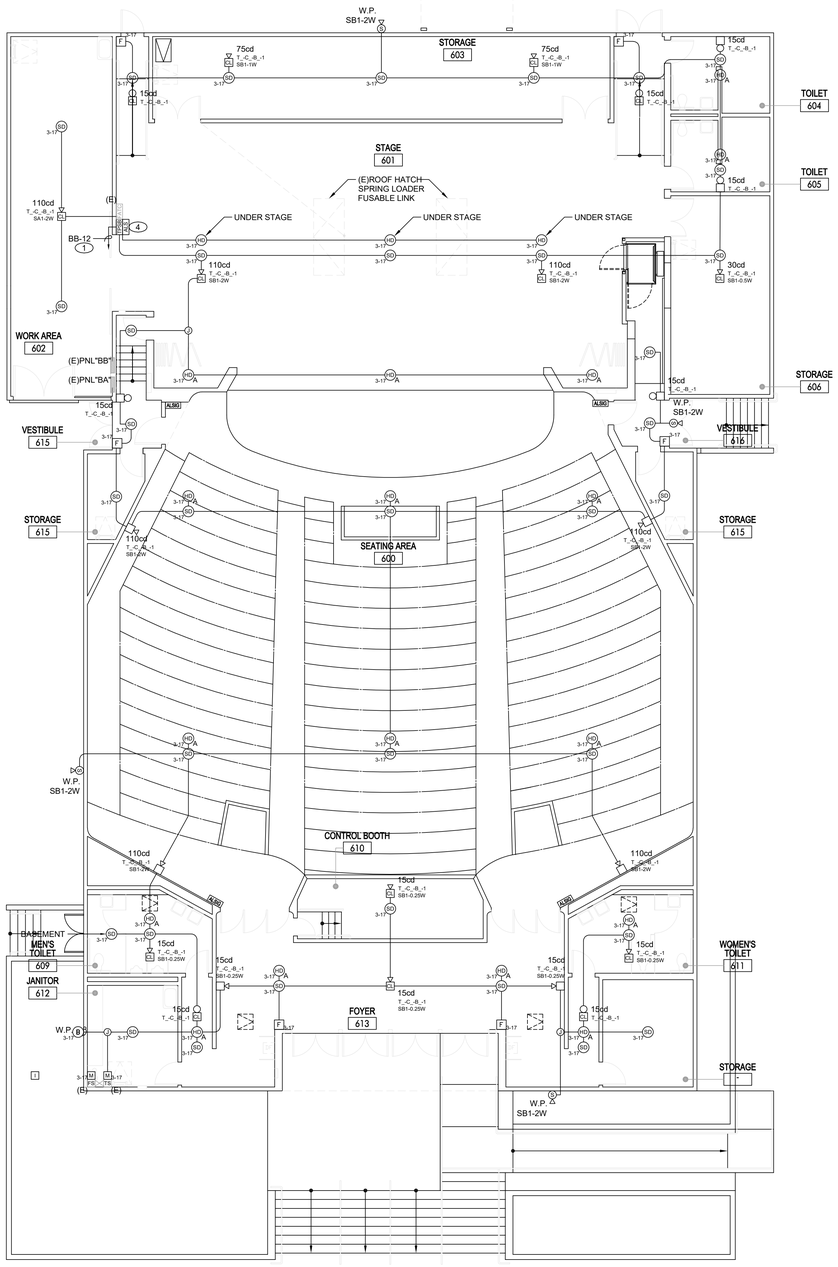
Sheet Title

Fire Alarm
Building "A"
Floor Plan

Sheet Number

EA321

Plot Date: 11/26/2019 11:39:06 AM Last Save By: Bcoiney Login: Rungsuh Sunnehasorn J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD-LMS-E32X.dwg



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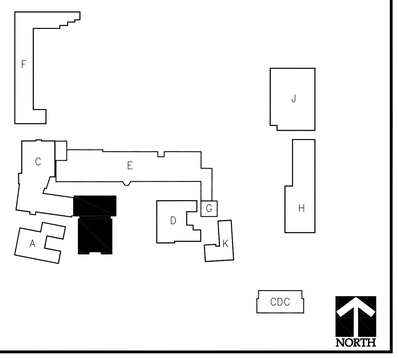
3. PROVIDE NEW ACCESS PANEL. SEE ARCHITECTURAL DRAWINGS
4. ASSISTIVE LISTENING SYSTEM (ALS) SEE SPECIFICATION SECTION 283101 SYSTEM. PROVIDE ASSISTIVE LISTENING SIGNAGE SEE DETAIL 7/E402. EACH MULTI-PURPOSE ROOM WITH 50 OR MORE SEATS SHALL RECEIVE A QUANTITY OF ASSISTIVE LISTENING SYSTEM RECEIVERS THAT EQUALS AT LEAST 4% OF NUMBER OF SEATS IN THE ROOM (ROUNDING UP TO NEAREST INTEGER), OR AT LEAST 2. VERIFY REQUIRED QUANTITY PER OCCUPANT LOAD OF THE ROOM. PROVIDE QUANTITY PER SPECIFICATION.

KEY PLAN



NORTH

BUILDING "B" - FIRE ALARM PLAN | SCALE 1/8" = 1'-0" | 1

APPL. No. A 00-123456

DSA Stamp

Architect

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NO. C28229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
No. E 17233
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

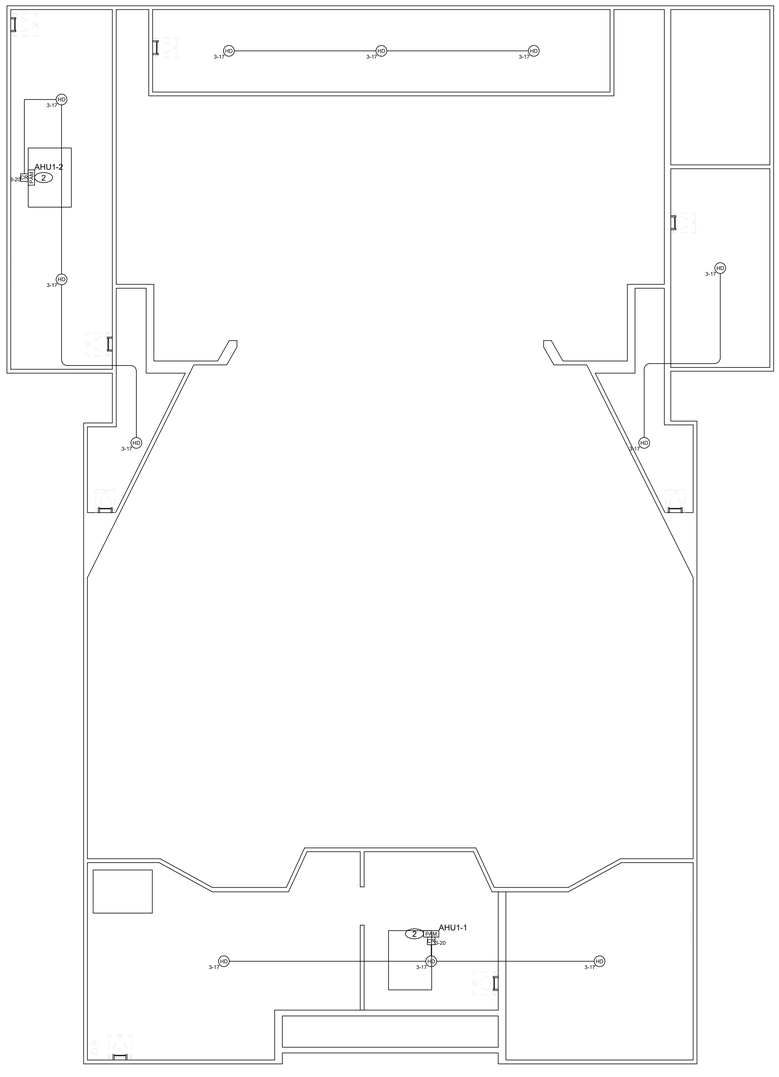
Sheet Title

Fire Alarm
Building "B"
Floor Plan

Sheet Number

EB321

Plot Date: 11/26/2019 11:39:28 AM Last Save By: Rooney Login: Rangsub Sumethasom J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD-LIMS-E32X.dwg



NORTH

BUILDING "B" - FIRE ALARM MEZZANINE PLAN | SCALE 1/8" = 1'-0" | 1

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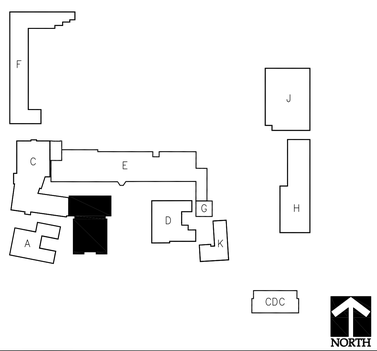
3. PROVIDE NEW ACCESS PANEL. SEE ARCHITECTURAL DRAWINGS

KEY PLAN



APPL. No. A 00-123456

DSA Stamp

Architect

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Santa Monica, California 90403

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Checked By: BA

Architect / Engineer Stamp

LICENSED ARCHITECT
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REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
No. E 17255
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

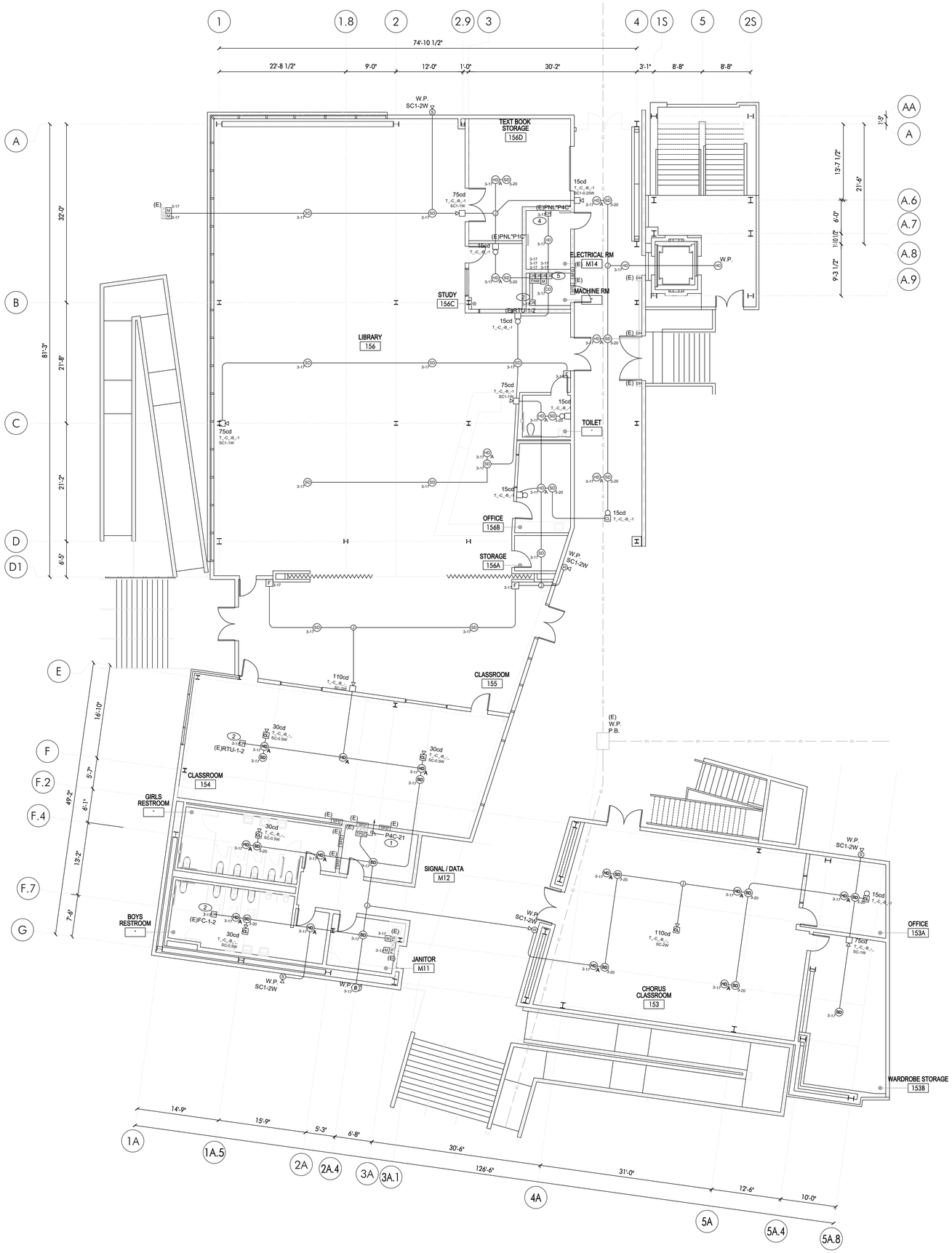
Sheet Title

Fire Alarm
Building "B"
Mezzanine Floor
Plan

Sheet Number

EB322

Plot Date: 11/26/2019 11:39:49 AM Last Save By: Bconey Login: Rungsuh Sunethasorn L:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-E32X.dwg



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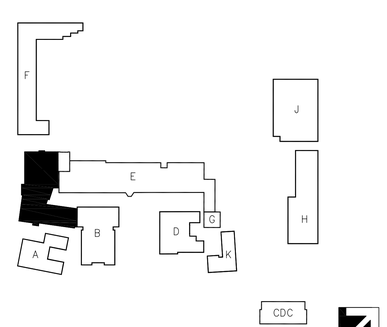
3. PROVIDE NEW ACCESS PANEL. SEE ARCHITECTURAL DRAWINGS
4. CONNECT CONTROL RELAY MODULE (A4090-9002, IDNET RELAY IAM) AND 120V RELAY MODULES (A2088-9008, FIRE ALARM CONTROL RELAY, 1 SPDT CONTACTS RATED 10A, 120VAC) TO EXISTING FIRE SMOKE DAMPER CIRCUIT SERVED BY EACH 120 VOLT CIRCUIT SERVING FIRE SMOKE DAMPERS. SEE WIRING DIAGRAM ON SHEET 9/E401. CONNECT 120V POWER CIRCUIT TO 120V RELAY MODULES AS INDICATED. PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING.
5. PROVIDE CONTROL RELAY MODULE (A4090-9002, IDNET RELAY IAM) FOR PRIMARY RECALL
   PROVIDE CONTROL RELAY MODULE (A4090-9002, IDNET RELAY IAM) FOR ALTERNATE RECALL
   PROVIDE CONTROL RELAY MODULE (A4090-9002, IDNET RELAY IAM) FOR SHUNT TRIP
   PROVIDE CONTROL RELAY MODULE (A4090-9002, IDNET RELAY IAM) FOR ELEVATOR WARNING
   PROVIDE 120V RELAY MODULES (A2088-9008, FIRE ALARM CONTROL RELAY, 1 SPDT CONTACTS RATED 10A, 120VAC) FOR MONITORING SHUNT TRIP BREAKER POWER. PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING.
   PROVIDE SINGLE INPUT MODULE (A4090-9001, IDNET SUPERVISED IAM) FOR MONITOR SHUNT TRIP RELAY

KEY PLAN



BUILDING "C" - FIRE ALARM FIRST FLOOR PLAN | SCALE 1/8" = 1'-0" | 1

APPL. No. A 00-123456

DSA Stamp

Architect

RACHLIN PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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LICENSED ARCHITECT
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REN. 2-28-21
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Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
No. E 17-7844
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

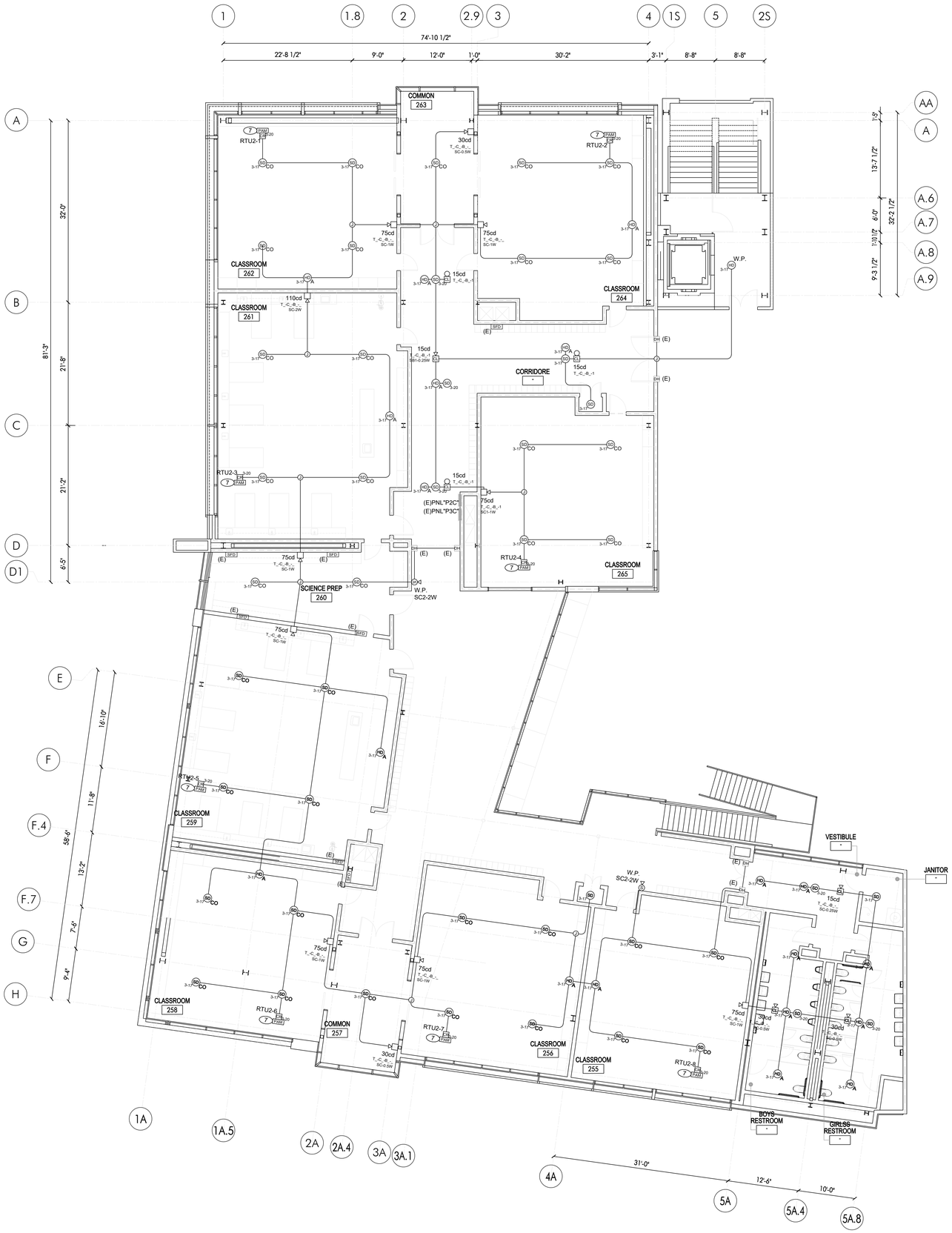
Sheet Title

Fire Alarm
Building "C"
First Floor Plan

Sheet Number

EC321

Plot Date: 11/26/2019 11:40:10 AM Last Save By: Rooney Login: Rungsuh Sumethasom J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD-LMS-E329.dwg



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3. PROVIDE NEW ACCESS PANEL. SEE ARCHITECTURAL DRAWINGS
4. EXISTING COOKING KITCHEN (TYPE 1 HOOD), CONNECT HEAT DETECTOR WITH SINGLE INPUT MODULE (4090-9001, IDNET SUPERVISED IAM) FOR MONITORING UL300 COMPLAINT FIRE SUPPRESSION SYSTEM. PROVIDE CONNECTION FROM ANSUL SYSTEM FOR FIRE ALARM SYSTEM MONITORING.
   PROVIDE CLASS K PORTABLE FIRE EXTINGUISHER OF A MINIMUM 1.5-GALLON CAPACITY FOR COMMERCIAL COOKING EQUIPMENT. FIELD VERIFY LOCATION WITHIN 30 FEET FROM COOKING SURFACE.
5. PROVIDE (2) DEDICATED PHONE LINES (ANALOG) TO MDF/IDF WITHIN THE BUILDING FOR REMOTE STATION MONITORING.
6. PROVIDE A SIGNAGE "FIRE ALARM CONTROL PANEL INSIDE" AT THE DOOR TO FACP/FCPS. SEE DETAIL ON 6/E402. PATCH/PAINT/REPAIR TO MATCH ADJACENT SURFACES
7. ASSISTIVE LISTENING SYSTEM (ALS) SEE SPECIFICATION SECTION 283101 SYSTEM. PROVIDE ASSISTIVE LISTENING SIGNAGE SEE DETAIL 7/E402. EACH MULTI-PURPOSE ROOM WITH 50 OR MORE SEATS SHALL RECEIVE A QUANTITY OF ASSISTIVE LISTENING SYSTEM RECEIVERS THAT EQUALS AT LEAST 4% OF NUMBER OF SEATS IN THE ROOM (ROUNDING UP TO NEAREST INTEGER), OR AT LEAST 2. VERIFY REQUIRED QUANTITY PER OCCUPANT LOAD OF THE ROOM. PROVIDE QUANTITY PER SPECIFICATION.

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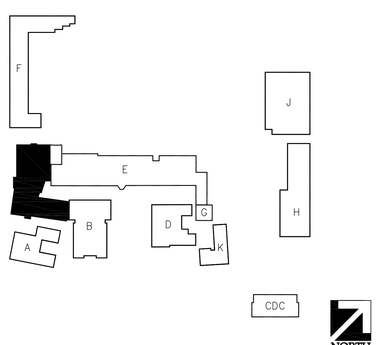

BUILDING "C" - FIRE ALARM SECOND FLOOR PLAN | SCALE 1/8" = 1'-0" | 1

APPL. No. A 00-123456

DSA Stamp

Architect

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REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
Neil E. O'Neill
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

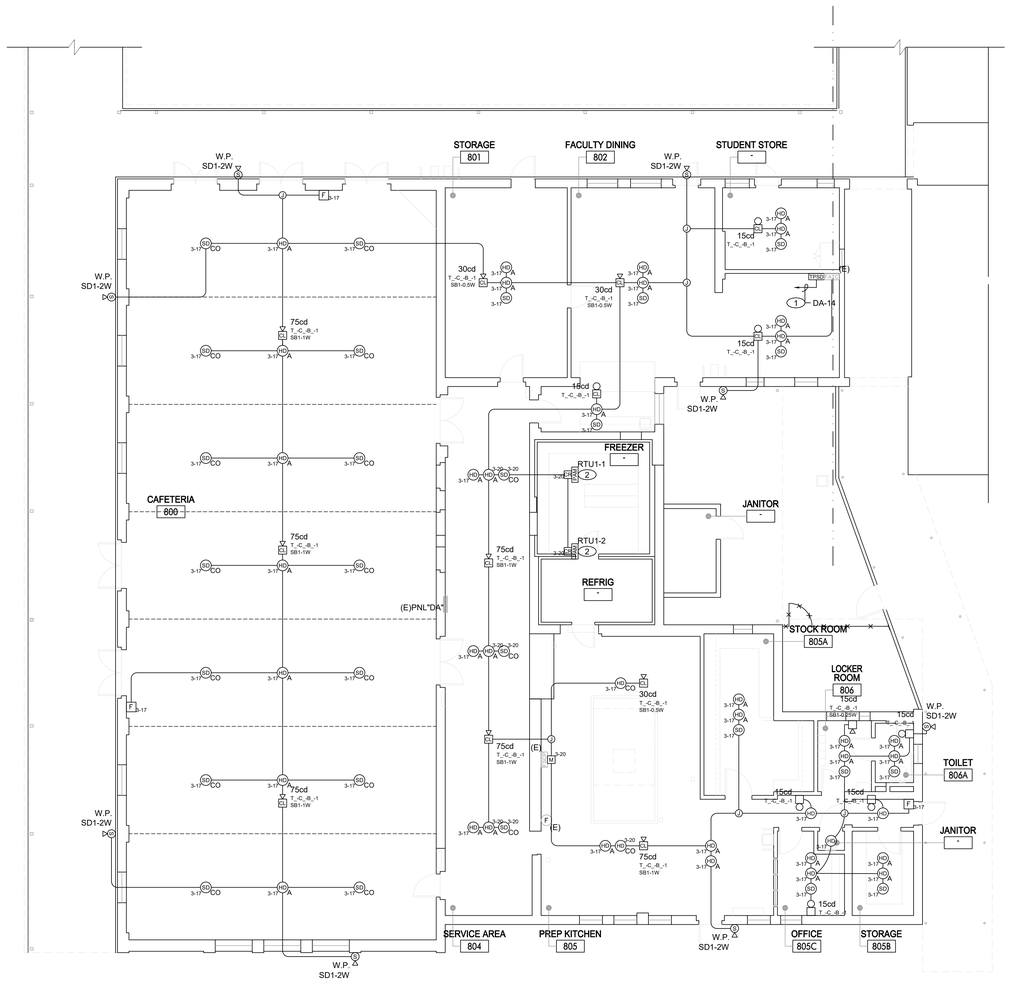
Sheet Title

Fire Alarm
Building "C"
Second Floor Plan

Sheet Number

EC322

Plot Date: 11/26/2019 11:40:33 AM Last Save By: Rooney Login: Rungsuk Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-E32X.dwg



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5. AUTOMATIC SHUTOFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR-HANDLING EQUIPMENT HAVE DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FEET. (CMC 608 EXCEMPTION#2)

REFERENCE NOTES

1. PROVIDE NEW (1)20A 1P CIRCUIT BREAKER TO ELECTRICAL PANEL, AS INDICATED. CIRCUIT BREAKER SHALL MATCH BY TYPE/STYLE/AIC RATING. PROVIDE LOCK ON DEVICE TO CIRCUIT BREAKER HANDLE, WITH RED MARKING, ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, IDENTIFIED AS "FIRE ALARM CIRCUIT", AND LOCATION OF CIRCUIT BREAKER PERMANENTLY IDENTIFIED AT FIRE ALARM CONTROL UNIT IN COMPLIANCE WITH NFPA 72, 10.6.5.2.
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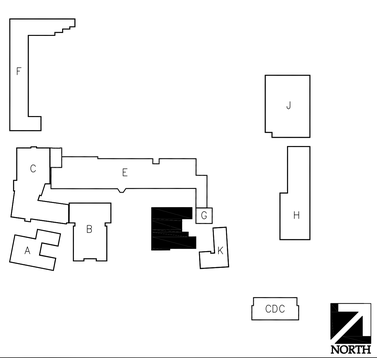
   PROVIDE CLASS K PORTABLE FIRE EXTINGUISHER OF A MINIMUM 1.5-GALLON CAPACITY FOR COMMERCIAL COOKING EQUIPMENT. FIELD VERIFY LOCATION WITHIN 30 FEET FROM COOKING SURFACE.

KEY PLAN



NORTH

BUILDING "D" - FIRE ALARM PLAN | SCALE 1/8" = 1'-0" | 1

APPL. No. A 00-123456

DSA Stamp

Architect

RACHLIN PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
	11.26.19	50% CD

Date: .....
Scale: As Shown
Drawn By: RS, TL
Checked By: BA

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD W. RACHLIN
NO. C26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LAM
No. E 17255
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

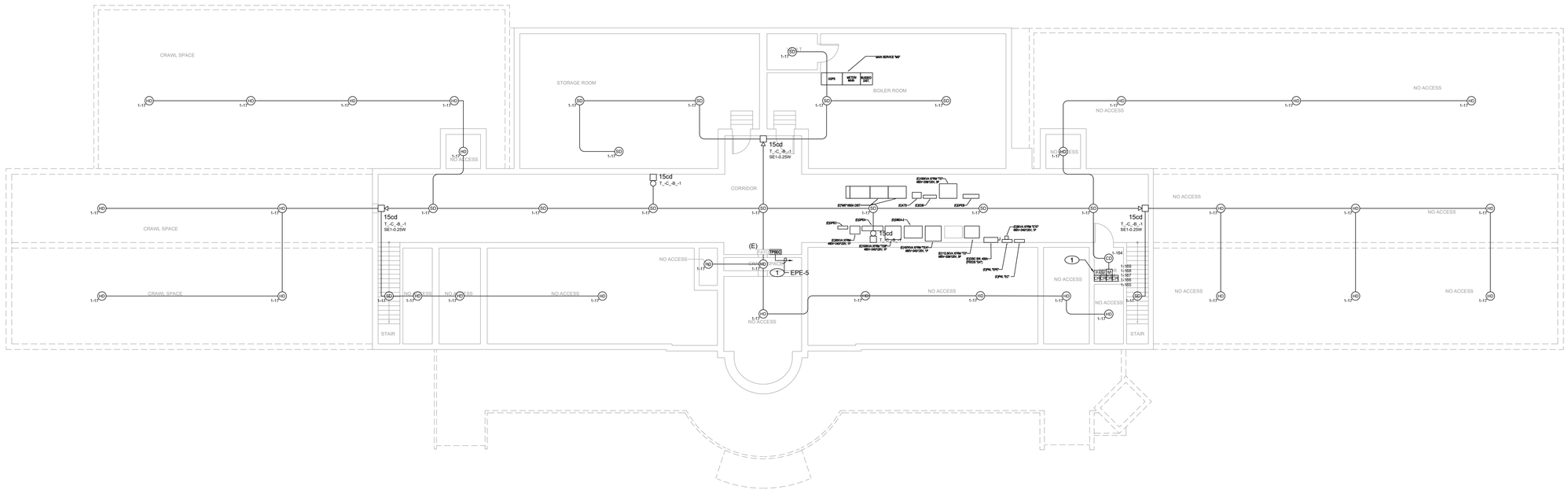
Fire Alarm
Building "D"
Floor Plan

Sheet Number

ED321

Plot Date: 11/26/2019 11:40:54 AM Last Save By: Rooney Login: Rungsuk Sumethasorn J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD LMS-E32X.dwg

BUILDING "E"



BUILDING "E" - FIRE ALARM BASEMENT FLOOR PLAN

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

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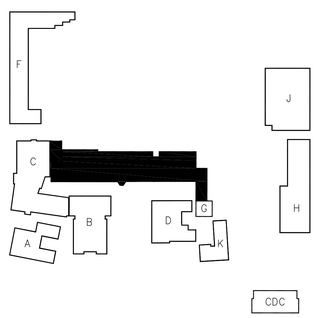
KEY PLAN



APPL. No. A 00-123456

DSA Stamp

Architect

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8640 National Boulevard
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LICENSED ARCHITECT
RICHARD S. SHOPKOW
NO. C26229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
No. E 17255
Exp.6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

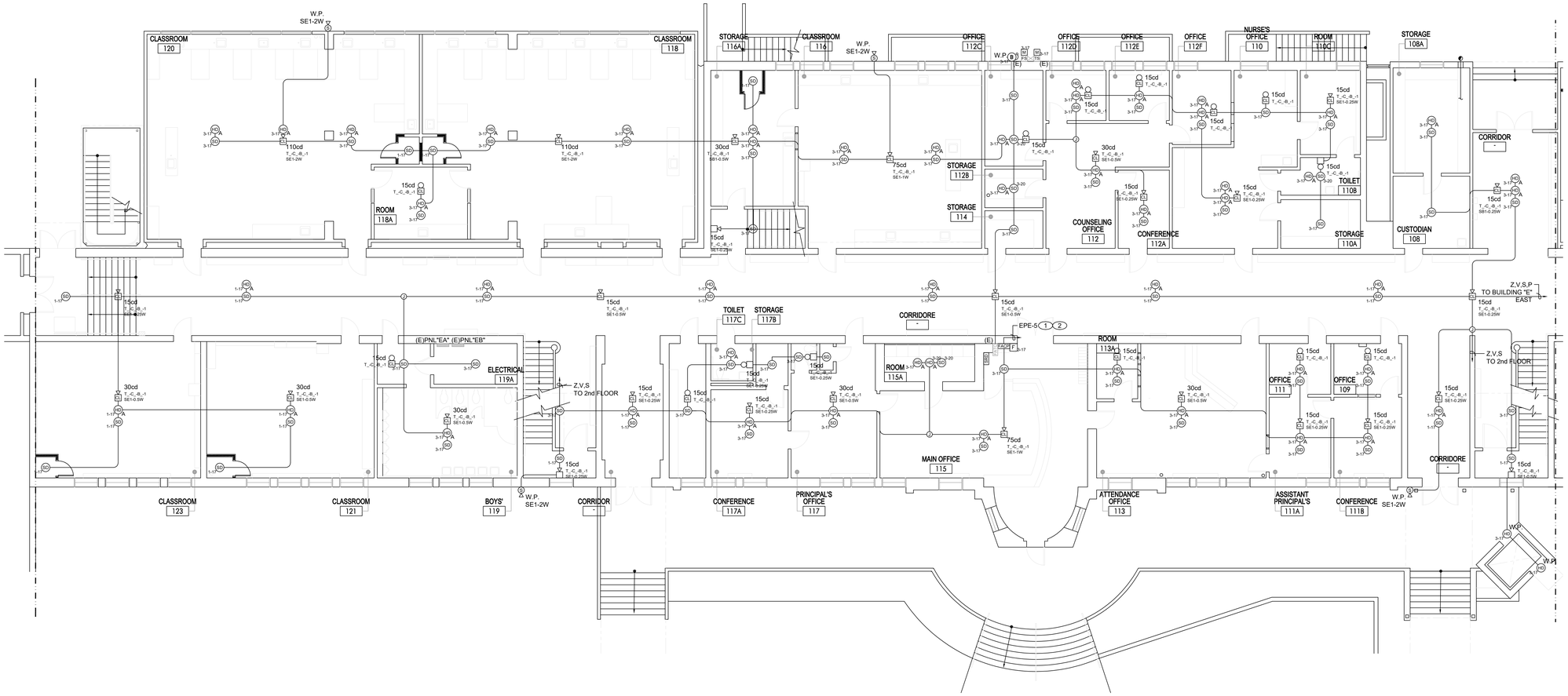
Sheet Title

Fire Alarm
Building "E"
Basement Floor Plan

Sheet Number

EE320

Plot Date: 11/26/2019 11:41:15 AM Last Save By: Bcoxney Login: Rungsuh Sunnethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-E32X.dwg



BUILDING "E" - FIRE ALARM FIRST FLOOR PLAN

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

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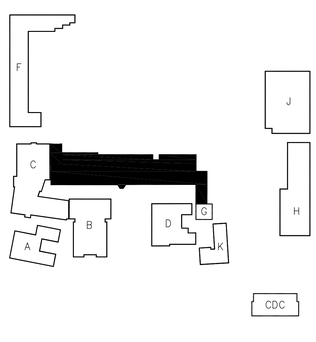

APPL. No. A 00-123456

DSA Stamp

Architect

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Architect / Engineer Stamp

LICENSED ARCHITECT BRIAN ALLEN ARCHER NO. C28229 REN. 2-28-21 STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER THOMAS W. LEE Exp.6/30/2020 ELECTRICAL STATE OF CALIFORNIA

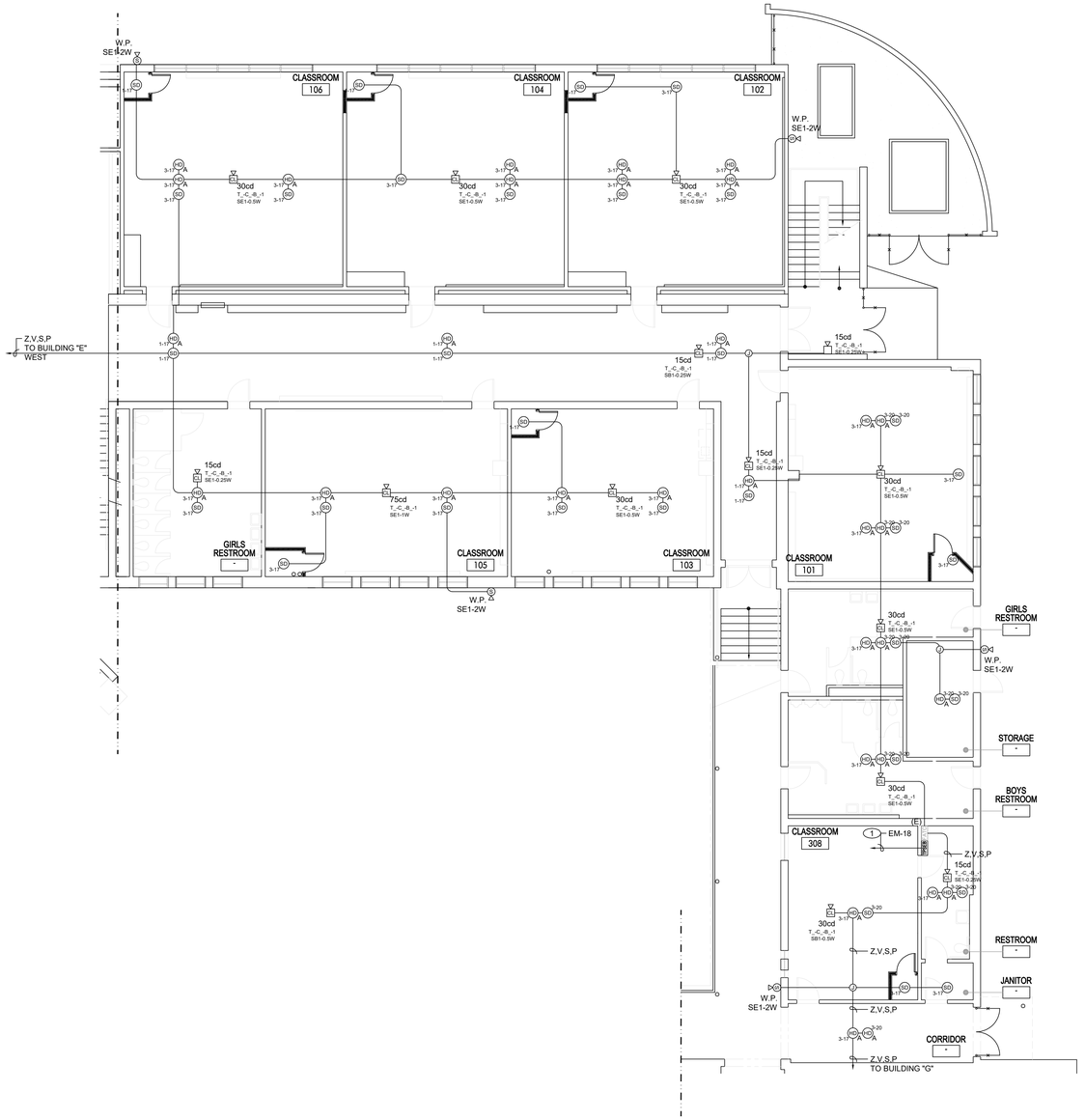
Sheet Title

Fire Alarm
Building "E"
First Floor Plan

Sheet Number

EE321A

Plot Date: 11/26/2019 11:41:36 AM Last Save By: Rooney Login: Rungsuh Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-E329.dwg



NORTH

BUILDING "E" - FIRE ALARM FIRST FLOOR PLAN

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

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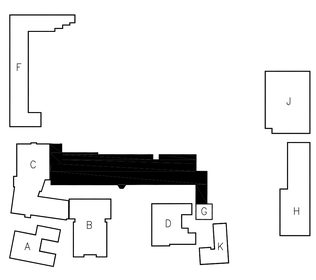

NORTH

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LICENSED ARCHITECT
BRADLEY A. BARNHART
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REN. 2-28-21
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Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
No. E 17-7
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

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Building "E"
First Floor Plan

Sheet Number

EE321B

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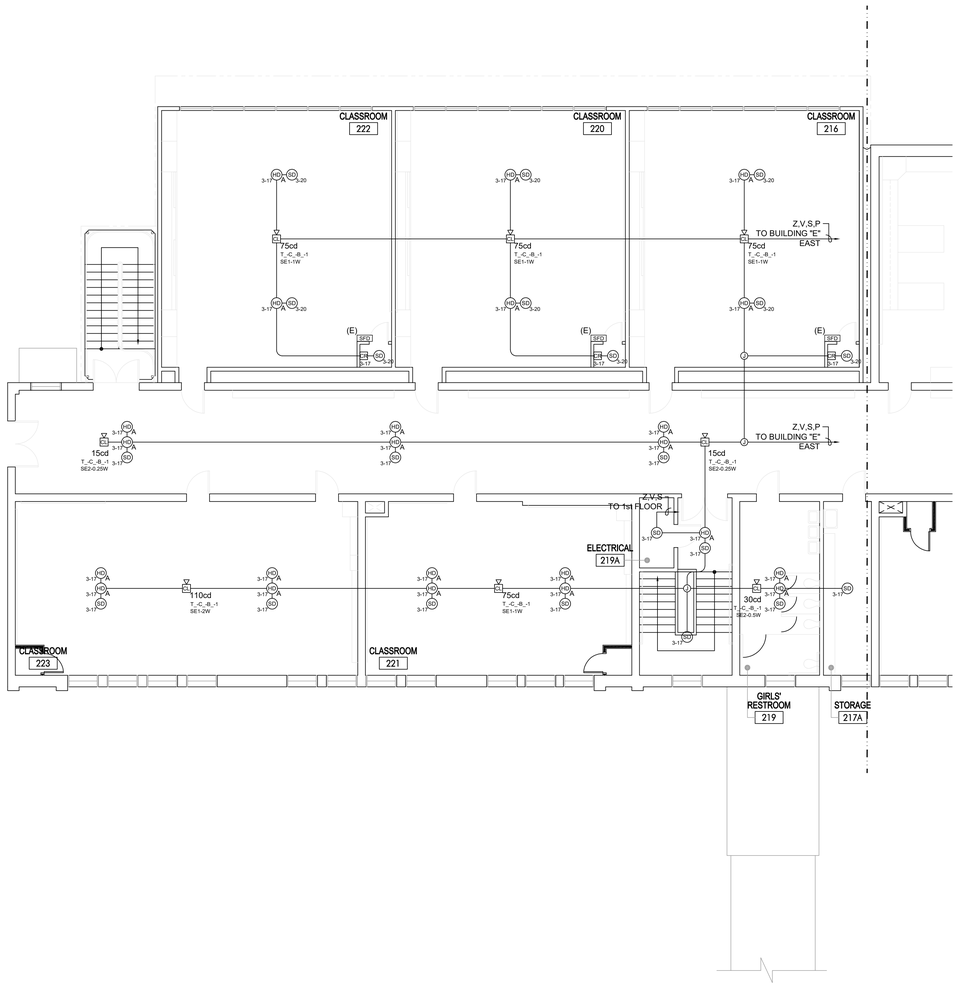

NORTH

BUILDING "E" - FIRE ALARM SECOND FLOOR PLAN

SCALE	
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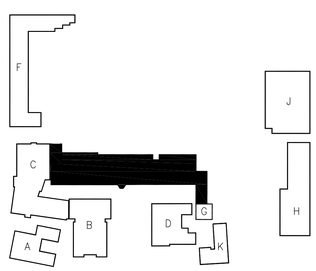
5. PROVIDE (2) DEDICATED PHONE LINES (ANALOG) TO MDF/IDF WITHIN THE BUILDING FOR REMOTE STATION MONITORING.
6. PROVIDE A SIGNAGE "FIRE ALARM CONTROL PANEL INSIDE" AT THE DOOR TO FACP/FCPS. SEE DETAIL ON 6/E402. PATCH/PAINT/REPAIR TO MATCH ADJACENT SURFACES

KEY PLAN



NORTH

APPL. No. A 00-123456

DSA Stamp

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

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Checked By: BA

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Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

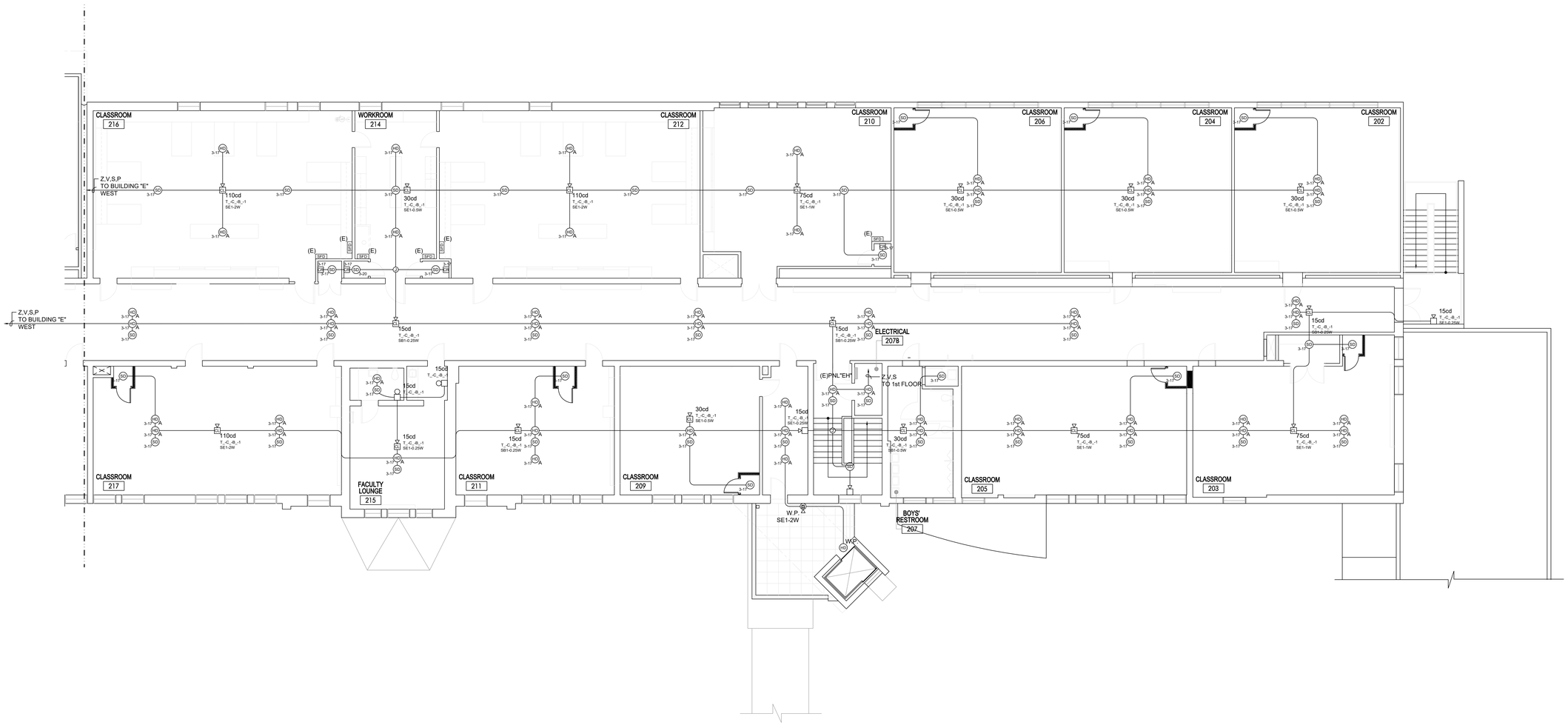
Sheet Title

Fire Alarm
Building "E"
Second Floor Plan

Sheet Number

EE322A

Plot Date: 11/26/2019 11:42:19 AM Last Save By: Rooney Login: Rangsub Sumethasom J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD-LMS-E32X.dwg



BUILDING "E" - FIRE ALARM SECOND FLOOR PLAN

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

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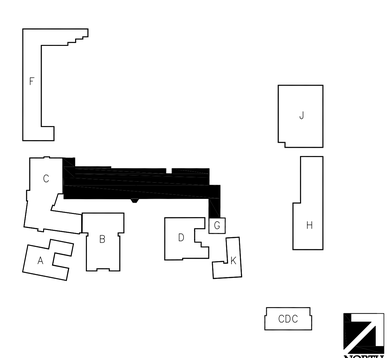
KEY PLAN



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Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

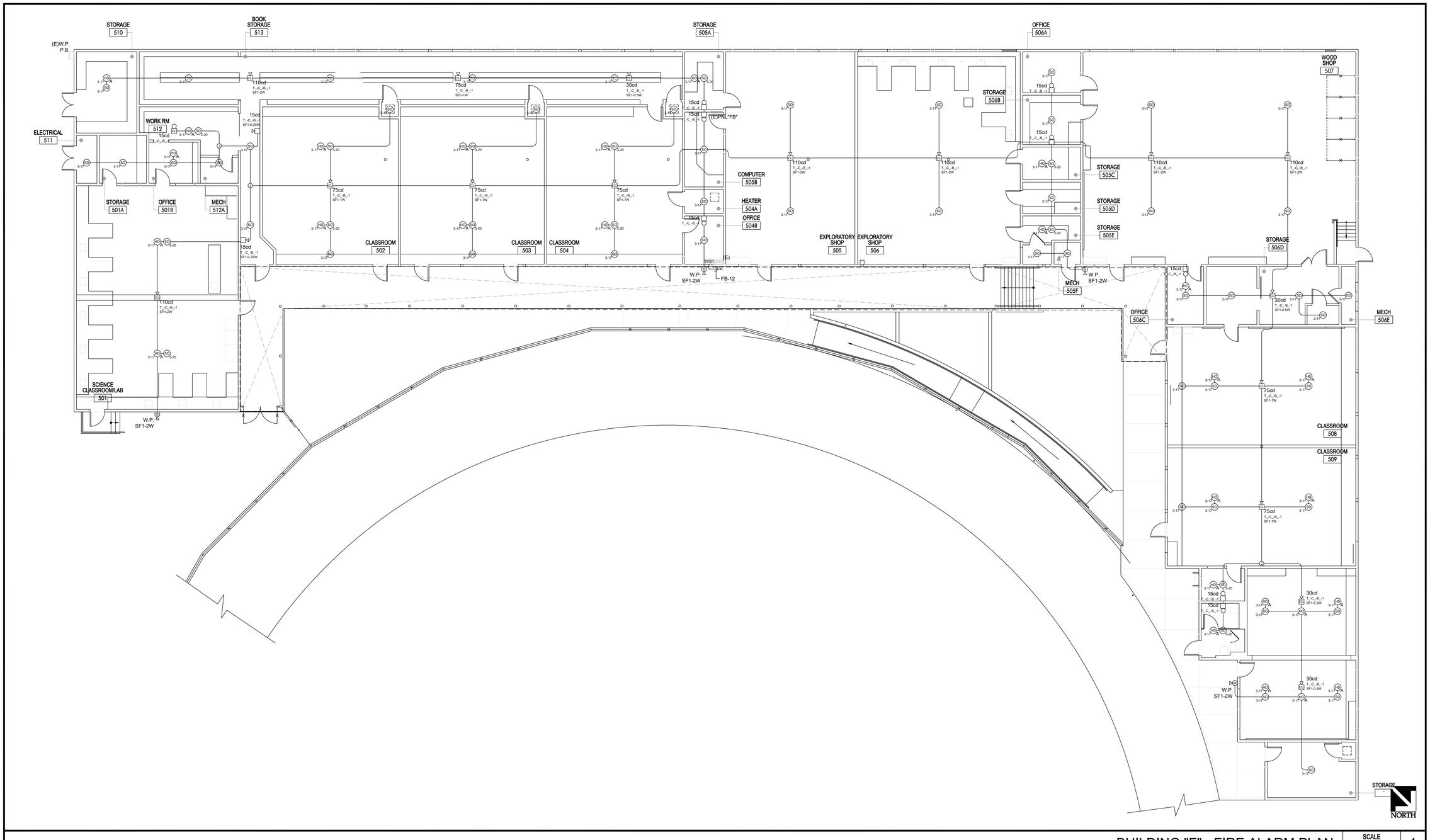
Sheet Title

Fire Alarm
Building "E"
Second Floor Plan

Sheet Number

EE322B

Plot Date: 11/26/2019 11:42:41 AM Last Save By: Rooney Login: Rungsuk Sumethasorn J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD LMS-E322X.dwg



BUILDING "F" - FIRE ALARM PLAN

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

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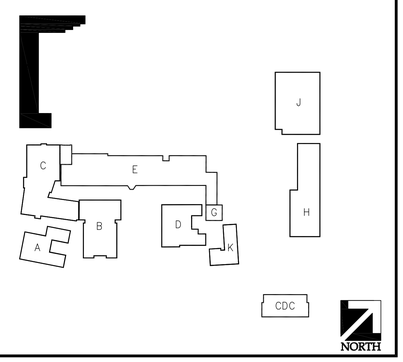
KEY PLAN



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REN. 2-28-21
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Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
No. E 17255
Exp.6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

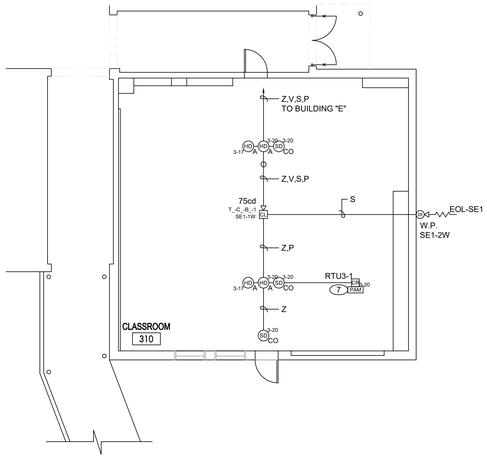
Sheet Title

Fire Alarm
Building "F"
Floor Plan

Sheet Number

EF321

Plot Date: 11/26/2019 11:43:02 AM Last Save By: Bconey Login: Rungsuh Sunnethasorn L:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-E32X.dwg



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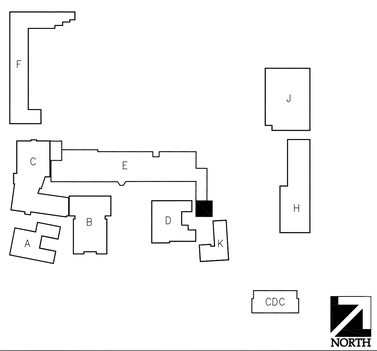

NORTH

BUILDING "G" - FIRE ALARM PLAN | SCALE 1/8" = 1'-0" | 1

APPL. No. A 00-123456

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Architect

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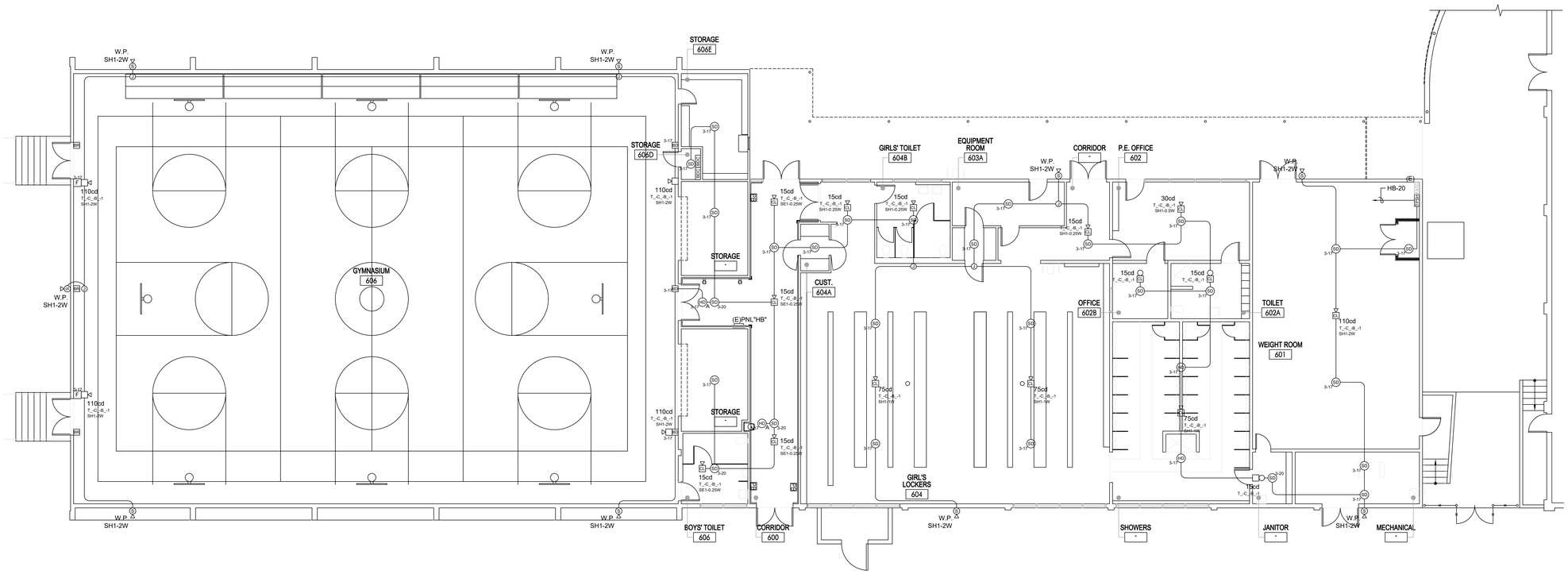

BUILDING "H" - FIRE ALARM PLAN

SCALE	
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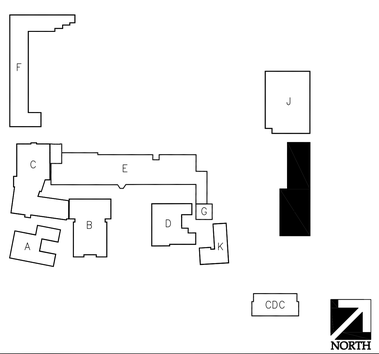

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
	11.26.19	50% CD

Date: .....
Scale: As Shown
Drawn By: RS, TL
Checked By: BA

Architect / Engineer Stamp

LICENSED ARCHITECT
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THOMAS W. LEE
No. E 17233
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

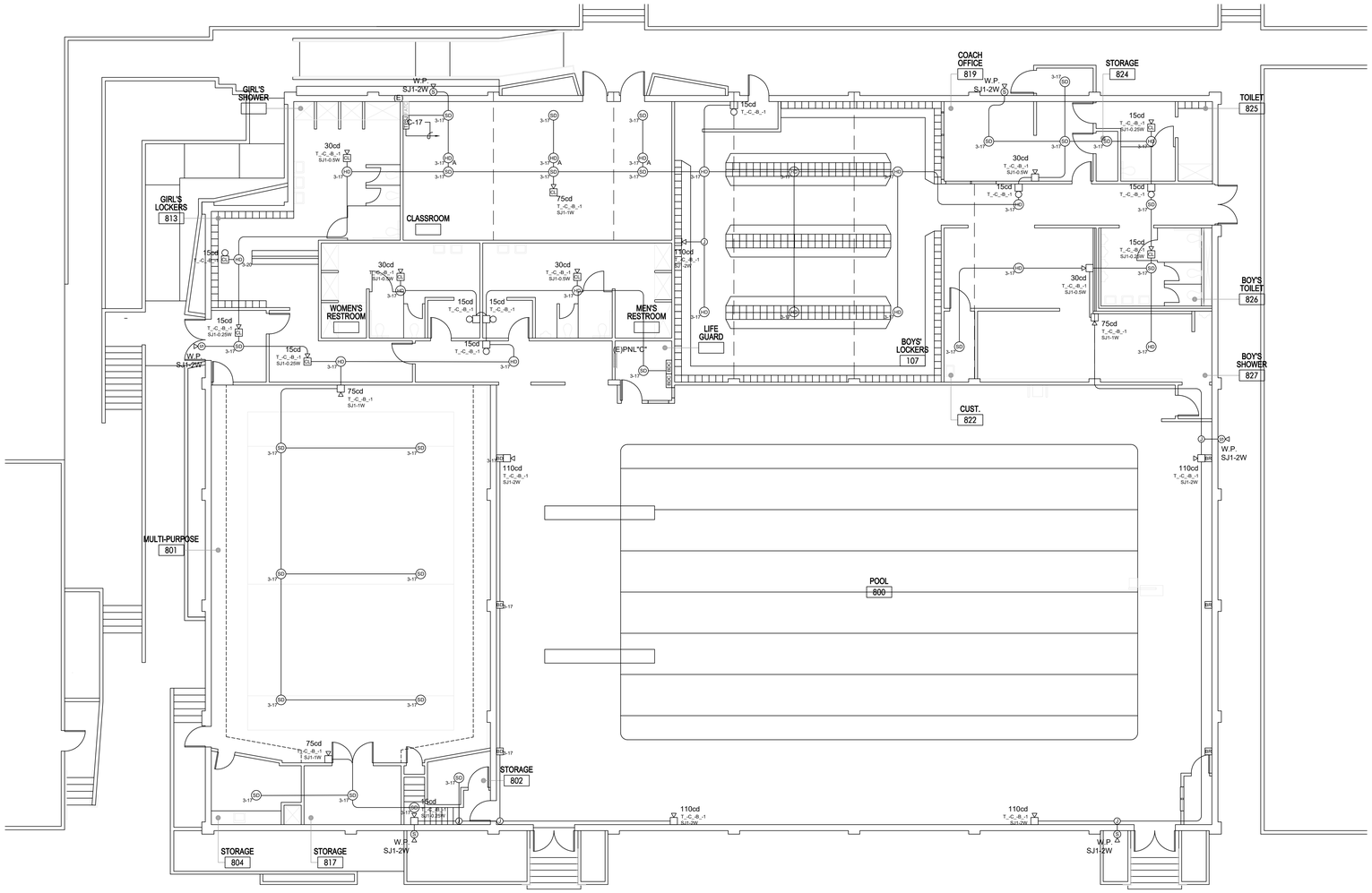
Sheet Title

Fire Alarm
Building "H"
Floor Plan

Sheet Number

EH321

Plot Date: 11/26/2019 11:43:43 AM Last Save By: Rooney Login: Rangsub Sumethasom J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD-LMS-E321x.dwg



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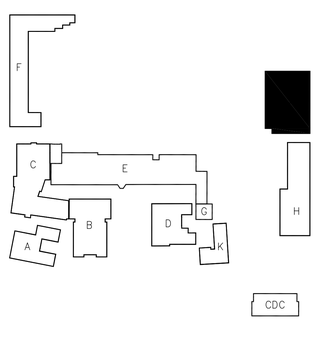
3. PROVIDE NEW ACCESS PANEL. SEE ARCHITECTURAL DRAWINGS

KEY PLAN



NORTH

BUILDING "J" - FIRE ALARM PLAN | SCALE 1/8" = 1'-0" | 1

APPL. No. A 00-123456

DSA Stamp

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No. E 17 [illegible]
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

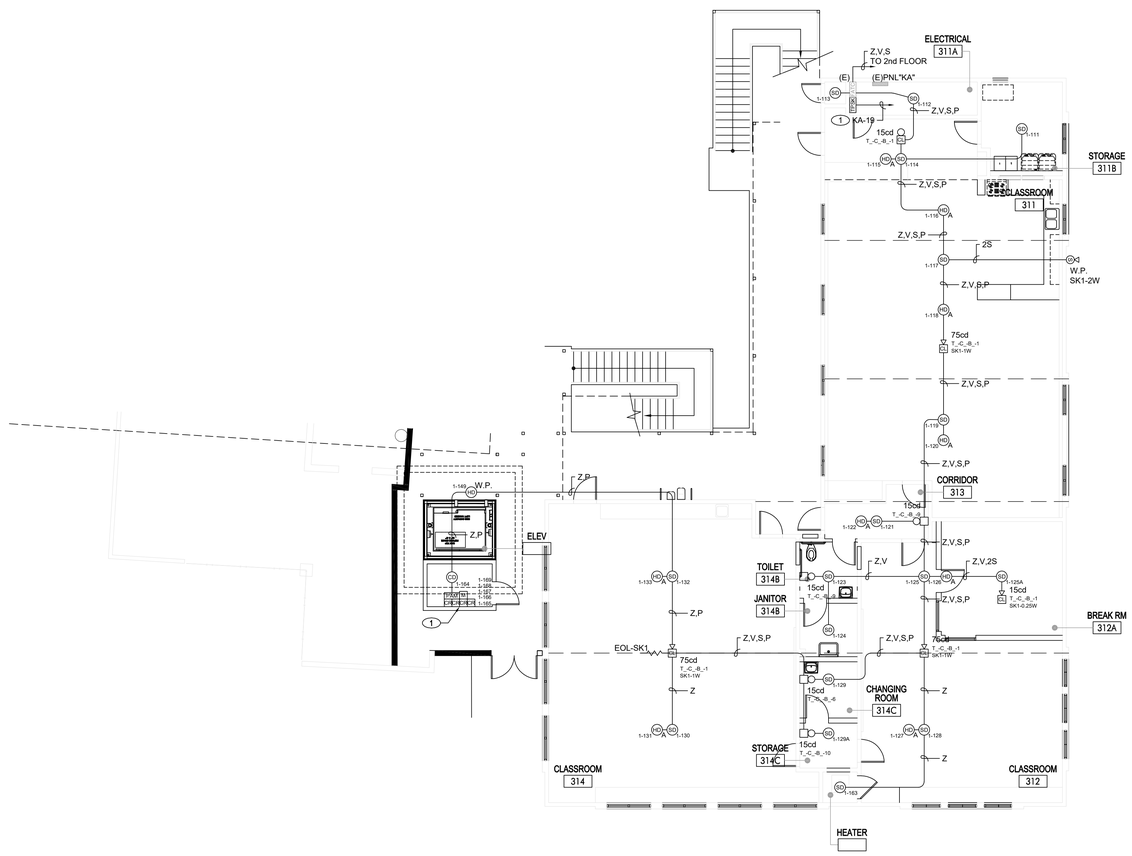
Sheet Title

Fire Alarm
Building "J"
Floor Plan

Sheet Number

EJ321

Plot Date: 11/26/2019 11:44:03 AM Last Save By: Rooney Login: Rungsuh Sumethasom J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\EJ\SMMUSD-LMS-EJ32x.dwg



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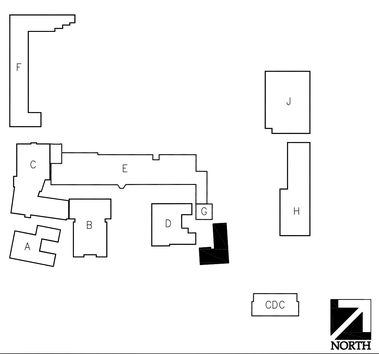
3. PROVIDE NEW ACCESS PANEL. SEE ARCHITECTURAL DRAWINGS

KEY PLAN



NORTH

BUILDING "K" - FIRE ALARM FIRST FLOOR PLAN | SCALE 1/8" = 1'-0" | 1

APPL. No. A 00-123456

DSA Stamp

Architect

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NO. C28229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
No. E 17854
Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

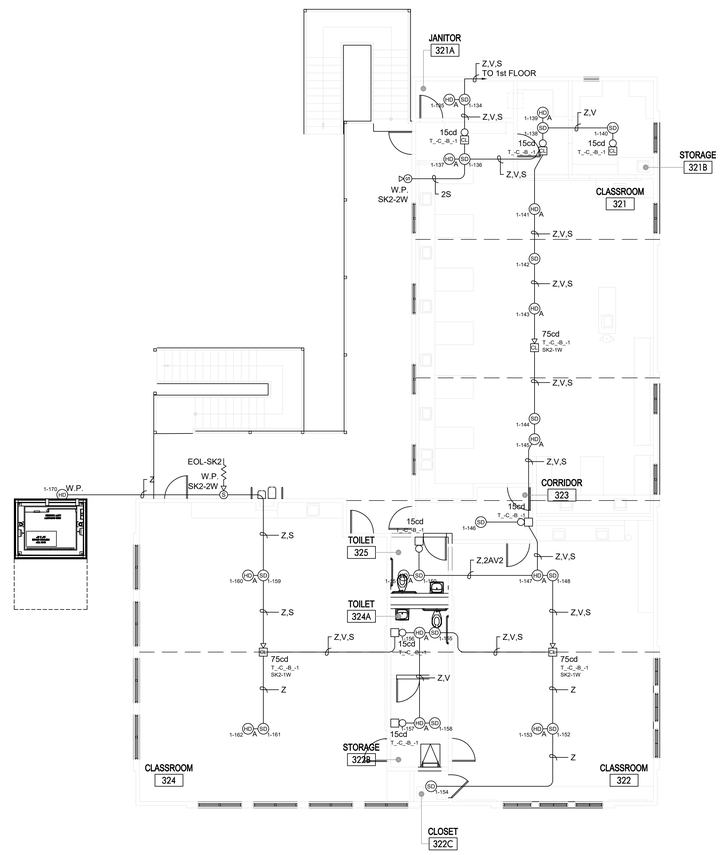
Sheet Title

Fire Alarm
Building "K"
First Floor Plan

Sheet Number

EK321

Plot Date: 11/26/2019 11:44:25 AM Last Save By: Rooney Login: Rungsuh Sumethasom J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD-LMS-E329.dwg



NORTH

BUILDING "K" - FIRE ALARM SECOND FLOOR PLAN

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

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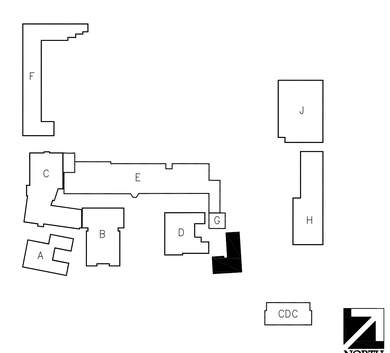
3. PROVIDE NEW ACCESS PANEL. SEE ARCHITECTURAL DRAWINGS
4. EXISTING COOKING KITCHEN (TYPE 1 HOOD), CONNECT HEAT DETECTOR WITH SINGLE INPUT MODULE (4090-9001, IDNET SUPERVISED IAM) FOR MONITORING UL300 COMPLAINT FIRE SUPPRESSION SYSTEM. PROVIDE CONNECTION FROM ANSUL SYSTEM FOR FIRE ALARM SYSTEM MONITORING.
   PROVIDE CLASS K PORTABLE FIRE EXTINGUISHER OF A MINIMUM 1.5-GALLON CAPACITY FOR COMMERCIAL COOKING EQUIPMENT. FIELD VERIFY LOCATION WITHIN 30 FEET FROM COOKING SURFACE.
5. PROVIDE (2) DEDICATED PHONE LINES (ANALOG) TO MDF/IDF WITHIN THE BUILDING FOR REMOTE STATION MONITORING.
6. PROVIDE A SIGNAGE "FIRE ALARM CONTROL PANEL INSIDE" AT THE DOOR TO FACP/FCPS. SEE DETAIL ON 6/E402. PATCH/PAINT/REPAIR TO MATCH ADJACENT SURFACES
7. ASSISTIVE LISTENING SYSTEM (ALS) SEE SPECIFICATION SECTION 283101 SYSTEM. PROVIDE ASSISTIVE LISTENING SIGNAGE SEE DETAIL 7/E402. EACH MULTI-PURPOSE ROOM WITH 50 OR MORE SEATS SHALL RECEIVE A QUANTITY OF ASSISTIVE LISTENING SYSTEM RECEIVERS THAT EQUALS AT LEAST 4% OF NUMBER OF SEATS IN THE ROOM (ROUNDING UP TO NEAREST INTEGER), OR AT LEAST 2. VERIFY REQUIRED QUANTITY PER OCCUPANT LOAD OF THE ROOM. PROVIDE QUANTITY PER SPECIFICATION.

KEY PLAN



NORTH

APPL. No. A 00-123456

DSA Stamp

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Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

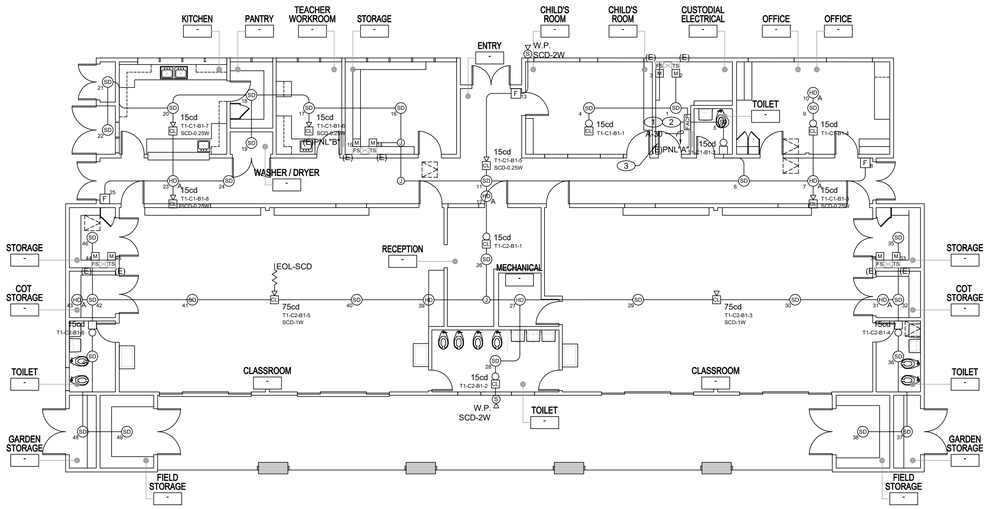
Sheet Title

Fire Alarm
Building "K"
Second Floor Plan

Sheet Number

EK322

Plot Date: 11/26/2019 11:44:47 AM Last Save By: Rooney Login: Rungsuh Sumethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\E\SMMUSD-LMS-E322K.dwg



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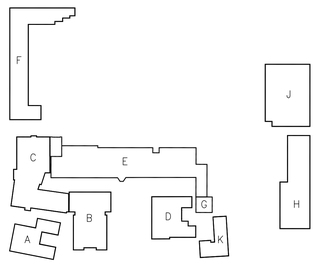

NORTH

Child Development Center (CDC) - FIRE ALARM PLAN | SCALE 1/8" = 1'-0" | 1

APPL. No. A 00-123456

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Exp. 6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Fire Alarm
Child Development
Center (CDC)
Floor Plan

Sheet Number

ECDC321

Plot Date: 11/26/2019 11:45:09 AM Last Save By: Bconey Login: Rungsuh Sunethasorn J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\MUSD-LMS-E32X.dwg

INSTRUCTIONS

1. REMOVE ELECTRONIC CARD CAGE (IF PRESENT) AND STORE IT IN A SAFE DRY AREA.
2. NO KNOCKOUTS PROVIDED. CUT CONDUIT/SERVICE ENTRANCE OPENINGS. REFER TO FIG.1 FOR PROPER LOCATIONS. CONDUIT PROTRUSION INTO BOX 1/2" MAX.
3. MOUNT BOX TO WALL: BOX MUST BE LEVEL AND PLUMB. FOR SURFACE MOUNT USE TEAR DROP AND CLEARANCE HOLES ON BACK SURFACE. FOR SEMI-FLUSH MOUNT: USE WALL STUD GUIDES FOR MAXIMUM ALLOWABLE BOX DEPTH TO PROVIDE OPEN DOOR CLEARANCE. USE KNOCKOUTS ON SIDE WALL, SCREW OR NAIL BOX TO WALL STUDS.
4. MINIMUM DISTANCE BETWEEN ANY TWO BOXES IS 3 1/4" (6" MAXIMUM).
5. IF PRESENT, USE WIRE MANAGEMENT BRACKETS ON BOX SIDES TO SECURE WIRE RUNS.
6. NEMA RATING: NEMA 1 - GENERAL PURPOSE.
7. DO NOT LOCATE POWER-LIMITED WIRING IN THE SHADED AREAS OF THE BACKBOX. THIS AREA IS RESERVED FOR NON-POWER LIMITED CIRCUITRY SUCH AS AC POWER, BATTERIES AND CITY CONNECTION.
8. REFER TO AUTOCALL BACKBOX INSTALLATION DOCUMENT 579-117AC FOR DETAILED INSTRUCTIONS.

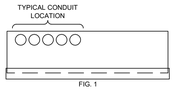
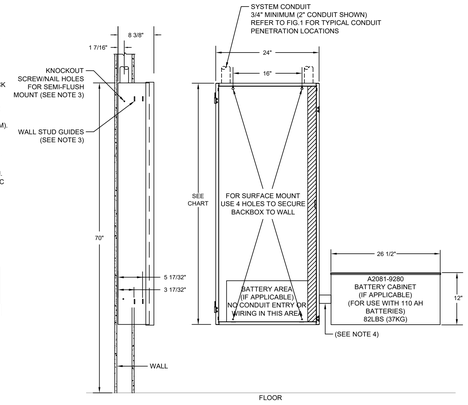


FIG. 1



BACKBOX AND DOOR OPTIONS

PID NUMBER	BOX HEIGHT	BOX LENGTH	BOX DEPTH
A2081-9280	12"	26 1/2"	12"
A4081-9306	13 1/2"	27 7/8"	14 5/8"
A4081-9308	13 1/2"	27 7/8"	14 5/8"

BACKBOX AND DOOR OPTIONS

PKG. SIZE	BOX W/ GLASS DOOR	BOX W/ SOLID DOOR	BOX ONLY	GLASS DOOR	SOLID DOOR	BOX HEIGHT
1 BAY RED	A2975-9441	A2975-9447	A2975-9407	A100-2124	A100-2134	22"
2 BAY RED	A2975-9442	A2975-9448	A2975-9408	A100-2125	A100-2135	40"
3 BAY RED	A2975-9443	A2975-9449	A2975-9409	A100-2126	A100-2136	56"

FIRE ALARM CONTROL PANEL BACKBOX INSTALLATION

SCALE: NTS | 1

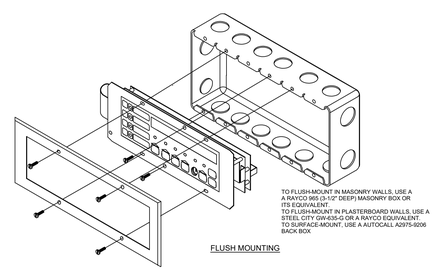
PRODUCT INFORMATION

FEATURES:
- UL LISTED
- FM APPROVED
- FLUSH MOUNT ON STANDARD ELECTRICAL BOXES

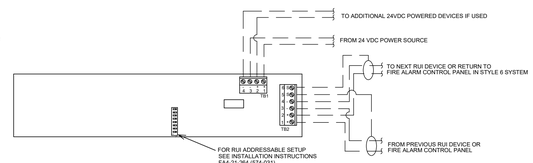
SPECIFICATIONS:
- VOLTAGE: 24VDC NOMINAL
- CURRENT: ALARM 170mA
  SUPERVISORY 30mA
- OPERATING TEMPERATURE: 32° F TO 120° F
- HUMIDITY RANGE: 10% TO 90% RH FROM 32° F TO 104° F
- STANDARD TRIM: BEIGE (SUPPLIED WITH BOTH SLOTTED AND TAMPERPROOF SCREWS)

OPTIONS
- BRUSHED ALUMINUM TRIM: 4603-9111
- SURFACE BOX: A2975-9206
- DIMENSIONS 11 31/32"L X 4 5/8" W X 2 3/4"D
- FINISH: LIGHT BROWN ENAMEL

NOTES:
1. ALL WIRING TO BE No. 18 AWG OR TO LOCAL CODE.
2. ALL WIRING SUPERVISED
3. WIRE TO BE 18 AWG TWISTED SHIELDED PAIR RECOMMENDED CONSULT SALES ENGINEERING FOR EXCEPTIONS. 2500 FT ONE WAY MAX COMMUNICATION LINE POWER 32 VDC MAX 1.5 AMPS 1200 OR 9600 BAUD
4. WHEN WIRING LEAVES THE BUILDING, OVER VOLTAGE PROTECTORS ARE REQUIRED. USE A2081-9044 ONE IS INSTALLED WHERE IT LEAVE THE BUILDING AND ONE WHERE IT ENTERS THE NEXT BUILDING. TWO A2081-9044 (MAX)

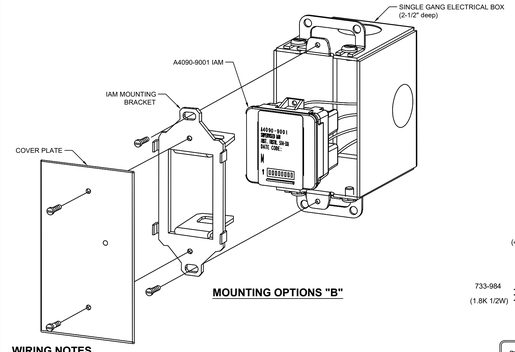


FLUSH MOUNTING



A4603-9101 REMOTE ANNUNCIATOR

SCALE: NTS | 2

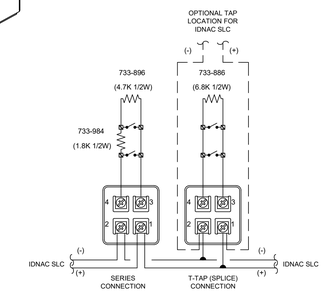


MOUNTING OPTIONS "B"

WIRING NOTES
1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

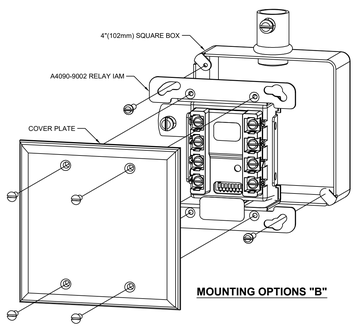
OPTION	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/2" DEEP WITH SINGLE GANG COVER PLATE	BY OTHERS
B	SINGLE GANG BOX, 2-1/2" DEEP WITH AUTOCALL A4090-9810 IAM MOUNTING BRACKET AND AUTOCALL A4090-9806 TRIM PLATE FOR SEMI-FLUSH MOUNTED BOX	BOX BY OTHERS PLATES ORDERED SEPARATELY
C	SINGLE GANG BOX, 2-1/2" DEEP WITH AUTOCALL A4090-9810 IAM MOUNTING BRACKET AND AUTOCALL A4090-9807 TRIM PLATE FOR SURFACE MOUNTED BOX	BOX BY OTHERS PLATES ORDERED SEPARATELY



CLASS B WIRING

A4090-9001 IDNET, SUPERVISED ADDRESSABLE MODULE (IAM)

SCALE: NTS | 3

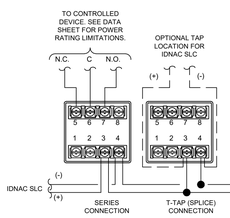


MOUNTING OPTIONS "B"

WIRING NOTES
1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

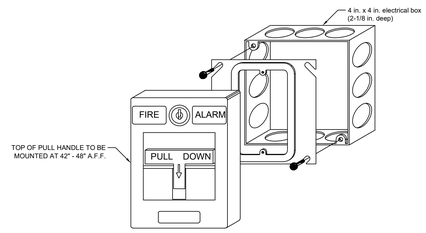
OPTION	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/2" DEEP WITH SINGLE GANG COVER PLATE	BY OTHERS
B	SINGLE GANG BOX, 2-1/2" DEEP WITH AUTOCALL A4090-9810 IAM MOUNTING BRACKET AND AUTOCALL A4090-9806 TRIM PLATE FOR SEMI-FLUSH MOUNTED BOX	BOX BY OTHERS PLATES ORDERED SEPARATELY
C	SINGLE GANG BOX, 2-1/2" DEEP WITH AUTOCALL A4090-9810 IAM MOUNTING BRACKET AND AUTOCALL A4090-9807 TRIM PLATE FOR SURFACE MOUNTED BOX	BOX BY OTHERS PLATES ORDERED SEPARATELY



CLASS B WIRING

A4090-9002 IDNET, SUPERVISED ADDRESSABLE MODULE (IAM)

SCALE: NTS | 4

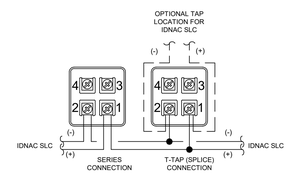


MOUNTING OPTIONS "B"

WIRING NOTES
1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

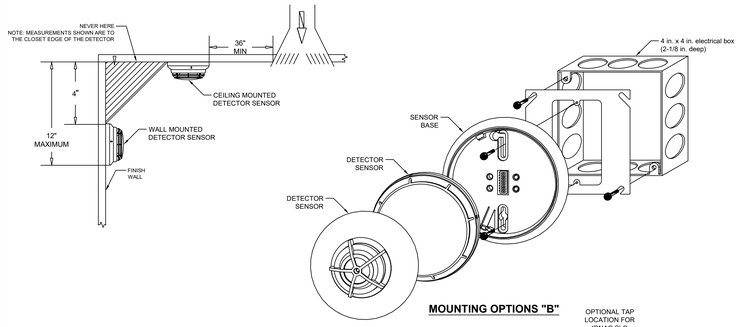
OPTION	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/2" DEEP	BY OTHERS
B	**4" SQUARE BOX, 2-1/8" DEEP (MIN) W/ SINGLE GANG COVER PLATE 3/4" EXTENSION**	BY OTHERS
C	AUTOCALL A2975-9022 - 5H x 3-7/8"W x 2-3/16"D	ORDERED SEPARATELY
D	AUTOCALL A2975-9178 - 5-3/4"H x 3-7/8"W x 2-3/16"D	ORDERED SEPARATELY



CLASS B WIRING

A4099-9001 SINGLE ACTION IDNET ADDRESSABLE STATION

SCALE: NTS | 5

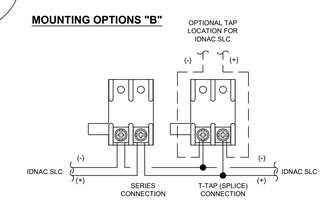


MOUNTING OPTIONS "B"

WIRING NOTES
1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

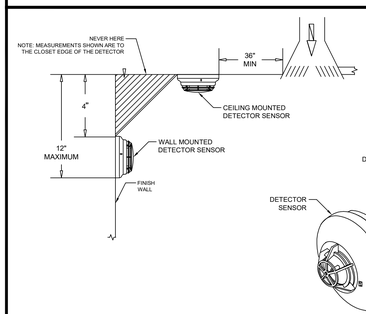
OPTION	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/2" DEEP	BY OTHERS
B	**4" SQUARE BOX, 1-1/2" DEEP (MIN) W/ SINGLE GANG COVER PLATE 3/4" EXTENSION**	BY OTHERS
C	4" OCTAGONAL BOX, 1-1/2" DEEP, MINIMUM	BY OTHERS
D	4" SQUARE BOX, 1-1/2" DEEP (MIN) W/ AUTOCALL A4098-9832 ADAPTER KIT	BOX BY OTHER, A4098-9832 ORDERED SEPARATELY

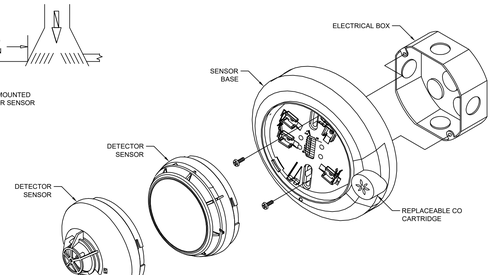


CLASS B WIRING

A4098-9792 STANDARD SENSOR BASE

SCALE: N.T.S. | 6



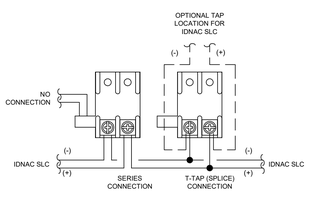


MOUNTING OPTIONS "C"

WIRING NOTES
1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

OPTION	DESCRIPTION	NOTE
A	SINGLE GANG BOX, 2-1/2" DEEP	BY OTHERS
B	**4" SQUARE BOX, 1-1/2" DEEP (MIN) W/ SINGLE GANG COVER PLATE 3/4" EXTENSION**	BY OTHERS
C	4" OCTAGONAL BOX, 1-1/2" DEEP, MINIMUM	BY OTHERS
D	4" SQUARE BOX, 1-1/2" DEEP (MIN) W/ AUTOCALL A4098-9863 ADAPTER KIT	BOX BY OTHER, A4098-9863 ORDERED SEPARATELY



CLASS B WIRING

A4098-9770 CARBON MONOXIDE SENSOR BASE

SCALE: N.T.S. | 7

PRODUCT INFORMATION

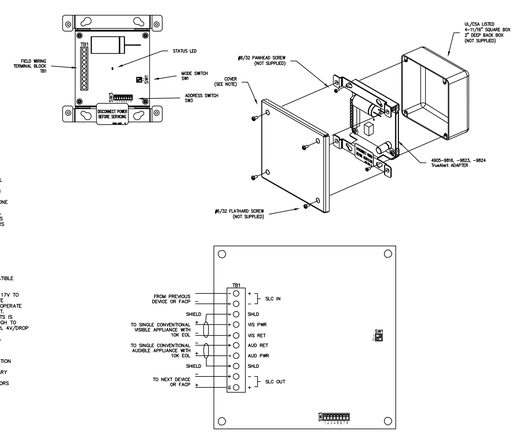
FEATURES:
- UL LISTED STANDARD 864
- POWER AND COMMUNICATIONS ARE SUPPLIED BY THE TRUEALERT ADDRESSABLE SIGNALING LINE CIRCUIT (SLC)
- OPERATION IS COMPATIBLE WITH TRUEALERT ADDRESSABLE CONTROLLERS AND 4100ES TRUEALERT POWER SUPPLIES
- OPERATION MODES ARE: VISIBLE AND AUDIBLE APPLIANCES, VISIBLE APPLIANCE ONLY, AUDIBLE APPLIANCE ONLY OPERATION DETERMINED BY THE CONNECTED TRUEALERT ADDRESSABLE CONTROL
- AN ON-BOARD DC-DC REGULATOR ENSURES PROPER APPLIANCE VOLTAGE AND PROVIDES SELF-RESETTING OVERCURRENT PROTECTION
- UP TO TWO TRUEALERT ADDRESSABLE ADAPTER MODULES CAN BE CONNECTED TO ONE TRUEALERT SLC

SPECIFICATIONS:
- WIRE CONNECTIONS: SCREW TERMINALS FOR #18 TO #12 AWG.
- DIMENSIONS: 4-11/16" X 5" X 1-9/32"
- TEMPERATURE RANGE: 32° F TO 120° F
- HUMIDITY: 10% TO 93% RH NON-CONDENSING AT 90°
- SUPERVISION RESISTOR: 10kΩ ±1/2%, TWO REQUIRED, ONE LOCATED AT EACH REMOTE APPLIANCE

DESCRIPTION:

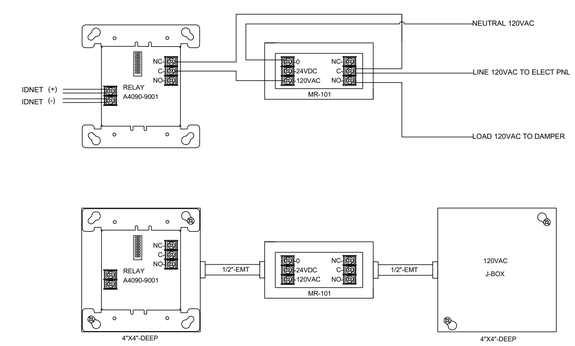
THE 4905 TRUEALERT ADAPTER IS A MODULE THAT ALLOWS CONVENTIONAL NOTIFICATION APPLIANCES TO BE OPERATED ON A TRUEALERT SLC (SIGNALING LINE CIRCUIT). THE TRUEALERT ADAPTER CONNECTS TO AND IS POWERED BY A TRUEALERT SLC. CAN BE INSERTED ANYWHERE ALONG THE SLC. UP TO TWO TRUEALERT ADAPTERS CAN BE USED ON ONE SLC. ONE OR ONE AUDIBLE AND ONE VISUAL APPLIANCE, OR ONE COMBO A/V UNIT TO SLC OPERATION. THE TRUEALERT ADPATER CAN ONLY BE OPERATED THROUH A COMPATIBLE 4009-9401 TRUEALERT ADDRESSABLE CONTROLLER OR 4100ES FACP (PID'S 4100-5120, -5121, -5122). UP TO TWO TRUEALERT ADAPTERS CAN BE USED ON ONE SLC.

WIRING NOTES:
1. THE TRUEALERT ADAPTER CAN ONLY BE OPERATED THROUGH A COMPATIBLE 4009-9401 TRUEALERT CONTROLLER OR 4100ES FACP.
2. ALL TRUEALERT SLC CIRCUITS ARE SUPERVISED AND POWER-LIMITED.
3. INPUT/OUTPUT SLC VOLTAGE RANGE FOR THE TRUEALERT ADAPTER IS 17V TO 32V. OPERATING BELOW 17V WILL CAUSE THE ADAPTER TO RESET. OPERATING OUTSIDE THESE LIMITS MAY CAUSE ALL BAT CAUDIBLE APPLIANCES TO NOT OPERATE AS INTENDED, AND/OR CAUSE PERMANENT DAMAGE TO THIS EQUIPMENT.
4. OUTPUT VOLTAGE AND CURRENT FOR THE VISUAL AND AUDIBLE CIRCUITS IS 20V TO 32V FOR BOTH CIRCUITS. LINE IMPEDENCE MUST BE LOW ENOUGH TO PROVIDE 20V TO 32V WITH 20V MINIMUM AT 100V MINUS 16V = 4V MAX DROP, 4V/200mA = 20 OHMS MAX LINE IMPEDENCE.
5. VISUAL OUTPUT IS RATED FOR 250mA, TRIPS OFF AT APPROX. 300mA (AUTOMATICALLY RESETTING).
6. AUDIBLE OUTPUT IS RATED 50mA; TRIPS OFF AT APPROX. 67mA (AUTOMATICALLY RESETTING).
7. MAXIMUM RECOMMENDED WIRING DISTANCE FROM ADAPTER TO NOTIFICATION DEVICE IS 200 FEET.
8. WHEN APPLIANCES ARE MOUNTED OUTDOORS, INSTALL LISTED SECONDARY PROTECTORS AT THE POINT OF EXIT OF THE BUILDING AND AT THE TERMINATION POINT FOR THE OUTDOOR-LOCATED APPLIANCE. PROTECTORS CONSIST OF MODELS 2081-9027, 2081-9028, OR 2081-9044.



A4905-9816 TrueAlert Adapter Module

SCALE: NTS | 8



AUTOCALL IDNET RELAY IAM WITH MULTI-VOLTAGE RELAY

SCALE: NTS | 9

APPL. No. A 00-123456

DSA Stamp

Architect

RACHLIN PARTNERS
8640 National Boulevard
Culver City, CA 90232
310.204.3400

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
	11.26.19	50% CD

Date: .....
Scale: As Shown
Drawn By: RS, TL
Checked By: BA

Architect / Engineer Stamp

LICENSED ARCHITECT REGISTERED PROFESSIONAL ENGINEER NO. C28229 REN. 2-28-21 STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER THOMAS W. LEE No. E 17233 Exp. 6/30/2020 ELECTRICAL STATE OF CALIFORNIA

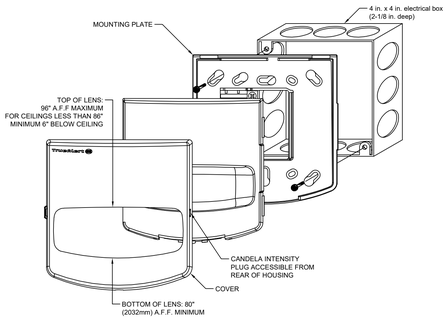
Sheet Title

Electrical Details

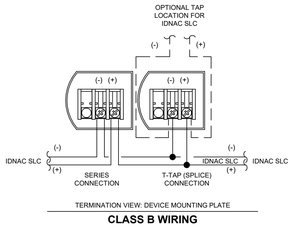
Sheet Number

E401

Plot Date: 11/26/2019 11:45:34 AM Last Save By: Rooney Login: Rangsub Sumethasorn J:\Project Files 2019\19-025 SAMUSD Lincoln MS\electrical Drawings\ES\SAMUSD-LMS-E401X.dwg



MOUNTING OPTIONS "B"



TERMINATION VIEW: DEVICE MOUNTING PLATE

CLASS B WIRING

WIRING NOTES

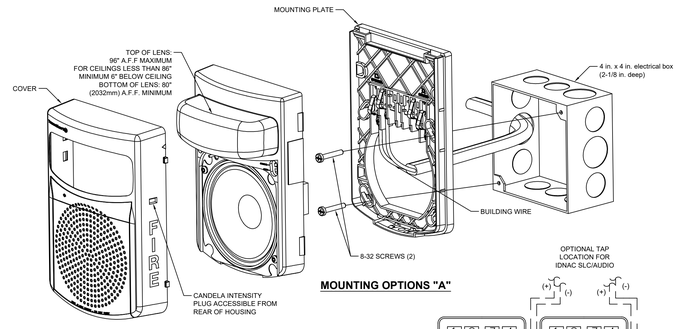
1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

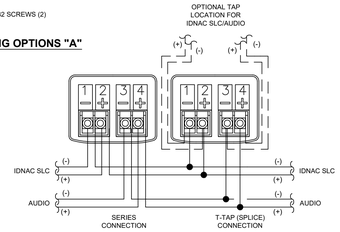
OPTION	DESCRIPTION	NOTE
A	SINGLE GANG OR DOUBLE GANG BOX, 1-1/2" DEEP (MIN)	BY OTHERS
B	4" SQUARE BOX, 1-1/2" DEEP (MIN)	BY OTHERS
C	AUTOCALL A2975-9145, 7-7/8"H x 5-1/8"W x 2-3/4"D REQUIRES A4905-9931 PLATE	ORDERED SEPARATELY

AUTOCALL A49VO SERIES WALL MOUNTED VISUAL ONLY

SCALE N.T.S. | 1



MOUNTING OPTIONS "A"



TERMINATION VIEW: DEVICE MOUNTING PLATE

CLASS B WIRING

WIRING NOTES

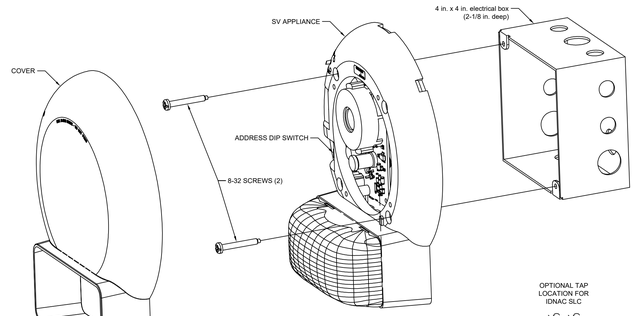
1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

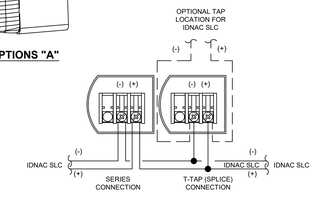
OPTION	DESCRIPTION	NOTE
A	4" SQUARE DEEP ELECTRICAL BOX, 2-1/8" MINIMUM DEPTH	BY OTHERS
B	AUTOCALL A49WPBB-SVWR (RED)/A49WPBB-SVWW (WHITE) WITH 3/4"CONDUIT KNOCK OUTS	ORDERED SEPARATELY

AUTOCALL A49SV SERIES WALL MOUNTED SPEAKER / VISUAL

SCALE N.T.S. | 2



MOUNTING OPTIONS "A"



TERMINATION VIEW: DEVICE MOUNTING PLATE

CLASS B WIRING

WIRING NOTES

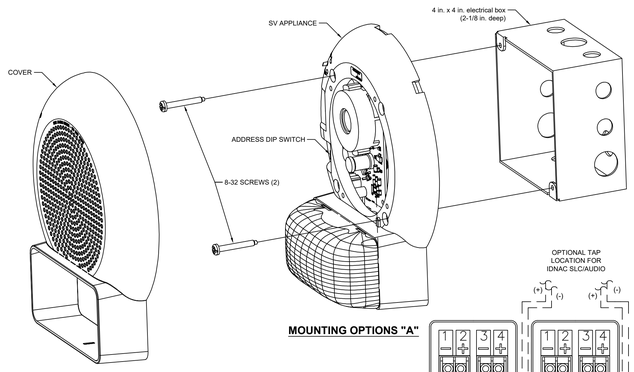
1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

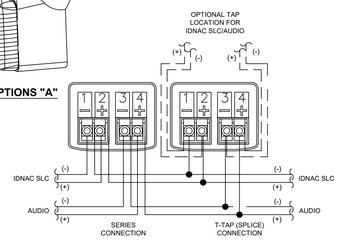
OPTION	DESCRIPTION	NOTE
A	4" SQUARE DEEP ELECTRICAL BOX, 2-1/8" MINIMUM DEPTH	BY OTHERS

AUTOCALL A49VO SERIES CEILING MOUNTED VISUAL ONLY

SCALE NTS | 3



MOUNTING OPTIONS "A"



TERMINATION VIEW: DEVICE MOUNTING PLATE

CLASS B WIRING

WIRING NOTES

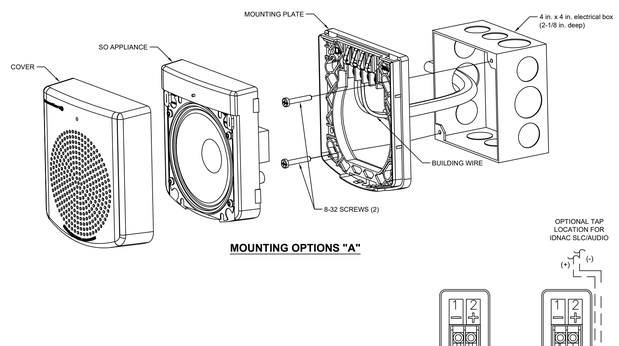
1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

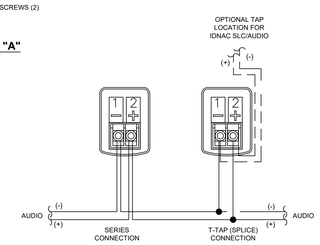
OPTION	DESCRIPTION	NOTE
A	4" SQUARE DEEP ELECTRICAL BOX, 2-1/8" MINIMUM DEPTH	BY OTHERS

AUTOCALL A49SV SERIES CEILING MOUNTED SPEAKER / VISUAL

SCALE N.T.S. | 4



MOUNTING OPTIONS "A"



TERMINATION VIEW: DEVICE MOUNTING PLATE

CLASS B WIRING

WIRING NOTES

1. MAINTAIN CORRECT POLARITY ON TERMINAL CONNECTIONS.
2. ALWAYS CUT CONDUCTORS AND SECURE UNDER TERMINALS. NEVER LOOP WIRES UNDER TERMINALS.
3. ANY WIRE SPLICES TO BE MADE BY LISTED AND AHJ APPROVED METHODS.

MOUNTING OPTIONS

OPTION	DESCRIPTION	NOTE
A	4" SQUARE DEEP ELECTRICAL BOX, 2-1/8" MINIMUM DEPTH	BY OTHERS
B	AUTOCALL A49MP-SOWR (RED)/A49MP-SVWW (WHITE) WITH 3/4"CONDUIT KNOCK OUTS	ORDERED SEPARATELY

AUTOCALL A49SO SERIES WALL MOUNTED OUTDOOR SPEAKER

SCALE N.T.S. | 5

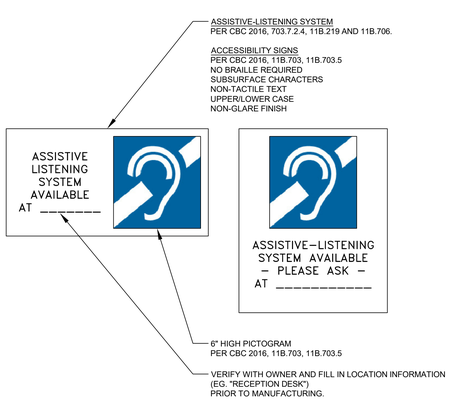
FIRE ALARM PANEL INSIDE

NOTE: SIGNAGE SHALL BE PLACE ON OR ADJACENT TO THE DOOR LEADING INTO FIRE ALARM PANEL LOCATION. MINIMUM 1 INCH LETTER, WITH CONTRASTING BACKGROUND OR OTHER APPROVED.

FIRE ALARM CONTROL PANEL INSIDE SIGNAGE

SCALE N.T.S. | 6

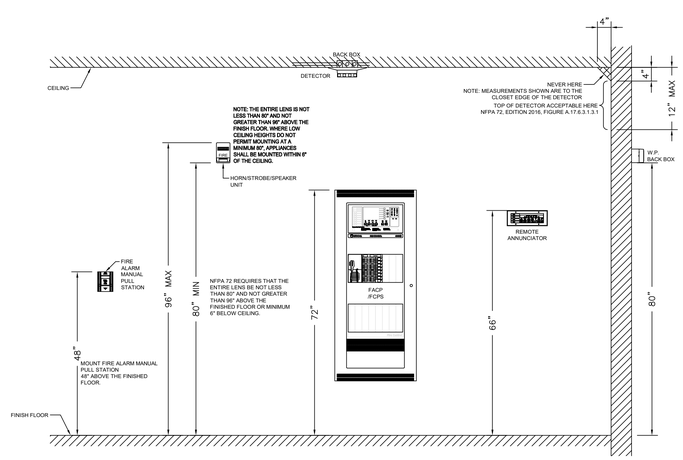
CODE CLARIFICATION DIAGRAM



NOTE:
THIS SIGN IS ASSISTING THE DEAF NOT TO BLIND, BRAILLE NOT REQUIRED.
LISTEN TECHNOLOGIES LA-304 ADA ACCESS/COMPLIANCE SIGNAGE KIT. (QTY: 1 EA. AT EACH LOCATION)

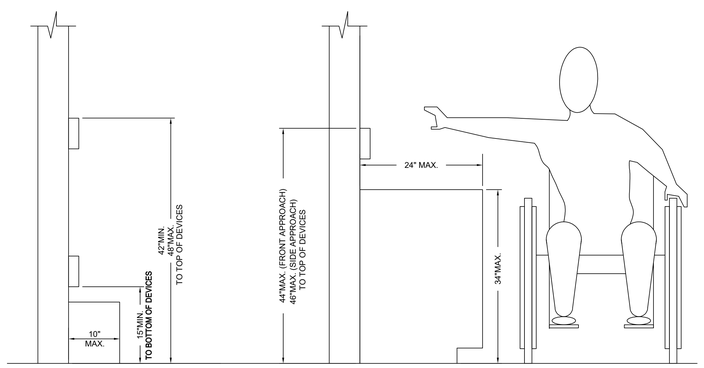
ASSISTIVE LISTENING SIGNAGE DETAILS

SCALE N.T.S. | 7



DEVICE ELEVATIONS

SCALE N.T.S. | 8



NOTE:
1. MANUAL PULL STATION/OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE MANUAL PULL STATION/OPERABLE PARTS SHALL BE NO GRATER THAN 5 POUNDS. (CBC2016, 11B309.4)
2. FIRE ALARM INITIATING DEVICE CANNOT BE LOCATED WHERE A PERSON USING A WHEELCHAIR WOULD BE FORCED TO REACH OVER AN OBSTRUCTION.
3. FIRE ALARM INITIATING DEVICE MUST BE LOCATED ON PATH OF TRAVEL.
4. PROVIDE FRONT AND PARALLEL APPROACH AT NEWLY INSTALLED FIRE ALARM INITIATING DEVICE.

MOUNTING HEIGHT OVER OBSTRUCTION

SCALE N.T.S. | 9

APPL. No. A 00-123456

DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
	11.26.19	50% CD

Date: .....
Scale: As Shown
Drawn By: RS, TL
Checked By: BA

Architect / Engineer Stamp

LICENSED ARCHITECT REGISTERED PROFESSIONAL ENGINEER NO. C26229 REN. 2-28-21 STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER THOMAS W. LAM No. E 17253 Exp. 6/30/2020 ELECTRICAL STATE OF CALIFORNIA

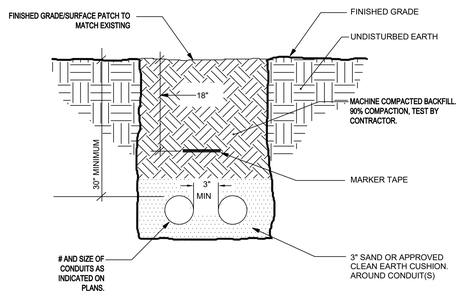
Sheet Title

Electrical Details

Sheet Number

E402

Plot Date: 11/26/2019 11:45:59 AM Last Save By: Rooney Login: Rungsuh Sumethasun J:\Project Files 2019\19-025 SMMUSD Lincoln MS\electrical Drawings\ES\SMMUSD LMS-E40X.dwg

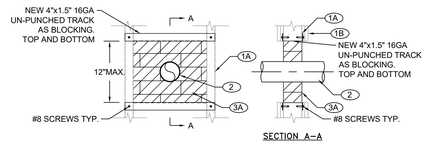


DUCT BANK INSTALLATION DETAIL

SCALE N.T.S. | 1

SYSTEM NO.W-L-1497

F RATINGS - 1 AND 2 HR (SEE ITEMS 1)
T RATINGS - 1/4 HR
L RATING AT AMBIENT - LESS THAN 5 CFM/SQ.FT
L RATING AT 400 F - LESS THAN 2 CFM/SQ.FT



SECTION A–A

1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400, V400 OR W400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES
   A. STUDS - WALL FRAMING SHALL CONSIST OF CHANNEL SHAPED STEEL STUDS. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE, SPACED MAX 16 IN. (400 MM) OC.
   B. GYPSUM BOARD* - NOM 5/8 IN. (16 MM) THICK, 4 FT. (1219 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX AREA OF OPENING IS 1444N2 (929 CM2) WITH MAX DIMENSION OF 12 IN. (305 MM). THE HOURLY F RATING OF THE FIRE-STOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. EMT TUBE - NOM 2 IN. DIAM (OR SMALLER) 0.125 IN. THICK (OR HEAVIER) EMT TUBE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS. ONE TUBE TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRE-STOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 2 IN. TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. DI-ELECTRIC SEPARATION REQUIRED BETWEEN ALUMINUM AND STEEL.
3. FIRE-STOP SYSTEM - THE FIRE-STOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FILL, VOID OR CAVITY MATERIAL* - FIRE BLOCKS INSTALLED WITH MIN. 2 IN. DIMENSION PASSING THROUGH AND CENTERED WITHIN THE OPENING. BLOCKS TO BE FIRMLY PACKED AND COMPLETELY FILL THE ENTIRE OPENING AROUND THE PENETRANT.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CFS-BL FIRE-STOP BLOCK
   B. FILL, VOID OR CAVITY MATERIAL* - FILL MATERIAL TO BE FORCED INTO ANY VOIDS/OPENINGS BETWEEN BLOCKS, AROUND PENETRANTS, AND BETWEEN BLOCKS AND PERIPHERY OF OPENING TO THE MAXIMUM EXTENT POSSIBLE ON BOTH SURFACES OF WALL
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE SEALANT, CP618 FIRE-STOP PUTTY STICK OR CP 620 FIRE FOAM (NOTE: L RATINGSAPPLYONLYWHENFS-ONESEALANTISUSED.)
4. SUBMIT PLANS OR WALL ELEVATIONS WITH CORES FOR STRUCTURE ENGINEER REVIEW AND DSA APPROVAL SHOWING THE LOCATION OF EXISTING FLOOR/WALL OPENING AND ANY REQUIREMENT/NON-STRUCTURE COMPONENT ATTACHED EACH SIDE. FLOOR/WALL STRENGTHENING AROUND OPENING MAY BE REQUIRED SUBJECT TO STRUCTURE ENGINEER REVIEW AND DSA APPROVAL.

*BEARING THE UL CLASSIFICATION MARK

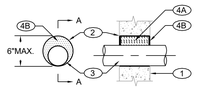
ALL WALL AND FLOOR PENETRATIONS MADE UNDER THIS PROJECT SHALL BE SEALED PER THE APPLICABLE DETAIL WETHER THE WALL OR FLOOR IS KNOWN TO BE FIRE RATED OR NOT

GYPSUM WALL PENNETRATION DETAIL

SCALE N.T.S. | 2

SYSTEM NO. C-AJ-1421
ANSI/UL1479 (ASTM E814)

F RATING - 2 OR 3 HR
T RATING - 0 HR
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ.FT.
L RATING AT 400F - LESS THAN 1 CFM/SQ.FT.



SECTION A–A

1. EXISTING CONCRETE FLOOR OR WALL.
   SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. CORE HOLE MAX 6 IN. (152 MM) DIAM. CONTRACTOR SHOULD SUBMIT PLANS TO SHOW HOLE LOCATION AND SHALL BE APPROVED BY STRUCTURE ENGINEER AND DSA PRIOR TO CORE DRILL.
3. THROUGH-PENETRANT- ONE METALLIC PIPE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRE-STOP SYSTEM. THE ANNULAR SPACE
   BETWEEN PIPE, TUBE OR CONDUIT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. (0 MM) (POINT CONTACT) TO MAX 5-3/8 IN. (137 MM). PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR CONDUITS MAY BE USED:
   A. STEEL PIPE- NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE-NOM 4 IN. (102 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   C. COPPER PIPE -NOM 4 IN. (102 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   D. COPPER TUBING -NOM 4 IN. (102 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. CONDUIT -NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL CONDUIT.
   F. CONDUIT- NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT).
4. FIRE-STOP SYSTEM -THE FIRE-STOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. PACKING MATERIAL -MIN 4 IN. (102 MM) THICKNESS OF MIN 4 PCT (64 KG/M) MINERAL WOOL BAIT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIAL* - SEALANT- MIN 1/4 IN. (6 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS. FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. FOR 3 HR RATED ASSEMBLIES, A MIN 1/4 IN. (6 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE AT THE POINT CONTACT LOCATION ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -CFS-S SIL GG, CFS-S SIL SL OR FS-ONE SEALANT OR CP604 SELF-LEVELING FIRE-STOP SEALANT. CP604 AND CFS-S SIL SL SHALL BE USED IN FLOOR APPLICATIONS ONLY.
   WHEN CP604, CFS-S SIL GG OR CFS-S SIL SL (FLOORS ONLY) IS USED, F RATING IS 2 HR.
5. SUBMIT PLANS OR WALL ELEVATIONS WITH CORES FOR STRUCTURE ENGINEER REVIEW AND DSA APPROVAL SHOWING THE LOCATION OF EXISTING FLOOR/WALL OPENING AND ANY REQUIREMENT/NON-STRUCTURE COMPONENT ATTACHED EACH SIDE. FLOOR/WALL STRENGTHENING AROUND OPENING MAY BE REQUIRED SUBJECT TO STRUCTURE ENGINEER REVIEW AND DSA APPROVAL.

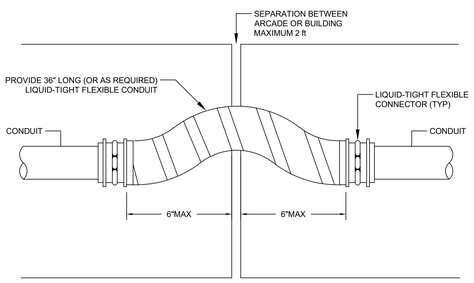
*BEARING THE UL CLASSIFICATION MARK

HOLES IN WALL AND FLOOR SHALL BE DONE BY CORE DRILLING ONLY. DO NOT DAMAGE REINFORCING STEEL BAR IN WALL. LOCATE BY NON-DESTRUCTIVE MEANS PRIOR TO CORING.

ALL WALL AND FLOOR PENETRATIONS MADE UNDER THIS PROJECT SHALL BE SEALED PER THE APPLICABLE DETAIL WETHER THE WALL OR FLOOR IS KNOWN TO BE FIRE RATED OR NOT

CONCRETE/MANSONRY WALL/FLOOR PENNETRATION DETAIL

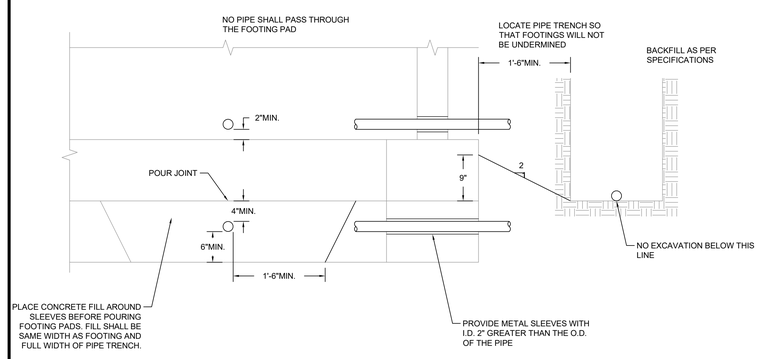
SCALE NTS | 3



CONDUIT CONNECTION AT BUILDING OR ARCADE SEPARATION PLAN VIEW. PROVIDE GROUND WIRE WITHIN FLEXIBLE CONDUIT. (PORTABLE BUILDING ONLY)

CONDUIT CONNECTION AT BUILDING OR ARCADE SEPARATION

SCALE N.T.S. | 4



REFERENCE TITLE 24, 1809A.14

PIPE TRENCH OR DUCT BANK AND FOOTING DETAIL

SCALE NTS | 5

APPL. No. A 00-123456

DSA Stamp

Architect

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Lincoln Middle School HVAC Replacement Project

Lincoln Middle School
1501 California Avenue
Santa Monica, California 90403

Rev	Date	Issue
	11.26.19	50% CD

Date: .....
Scale: As Shown
Drawn By: RS, TL
Checked By: BA

Architect / Engineer Stamp

LICENSED ARCHITECT
RICHARD A. THOMPSON
NO. C28229
REN. 2-28-21
STATE OF CALIFORNIA

Consultants

REGISTERED PROFESSIONAL ENGINEER
THOMAS W. LEE
No.E 17223
Exp.6/30/2020
ELECTRICAL
STATE OF CALIFORNIA

Sheet Title

Electrical Details

Sheet Number

E403

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