

2018 HVAC - Davis

PUBLIC MEETING

ARA ZARECZNY – DIRECTOR OF FACILITIES

2018 HVAC Upgrades

Project Description:

Heating, Ventilation and Air Conditioning (HVAC) projects include the complete replacement of systems at various schools.

Anticipated Heating, Ventilation and Air Conditioning (HVAC) Installation Plan

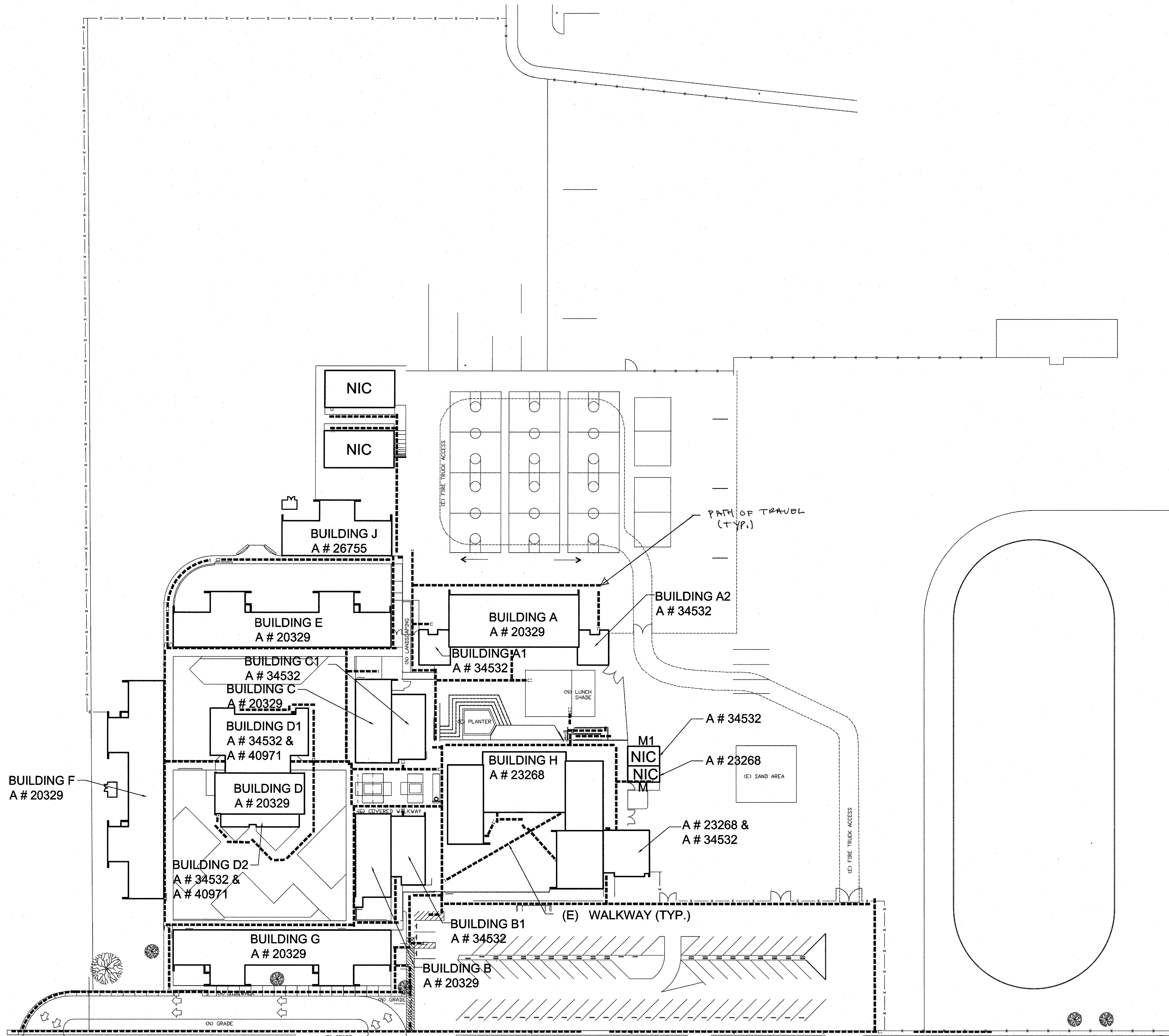
Below is the Newport-Mesa Unified School District's anticipated phased-in plan for installing Heating, Ventilation and Air Conditioning (HVAC) in all schools and district facilities. **Please note that the following schedule is tentative and subject to change due to varying unforeseen factors.**

SCHOOL	HVAC	NOTES
California	Yes	Completed Summer, 2015
TeWinkle	Yes	Completed Summer, 2015
Killybrooke	Yes	Completed Summer, 2015
ECHS	Yes	Completed as part of modernization in 2016
Paularino	Yes	Summer Completed Summer, 2016
Sonora	Yes	Completed Summer, 2016
Adams	Yes	Completed Summer, 2016
Victoria	Yes	Had HVAC prior to projects
Rea	Yes	Had HVAC prior to projects
Eastbluff	Yes	Had HVAC prior to projects
Andersen	Yes	Had HVAC prior to projects
Lincoln	Yes	Had HVAC prior to projects
Newport Coast	Yes	Had HVAC prior to projects
Estancia	Yes	Had HVAC prior to projects
Corona del Mar HS/MS	Yes	Had HVAC prior to projects
Davis Magnet	Anticipated Completion 2018	In design
College Park	Anticipated Completion 2018	In design
Wilson	Anticipated Completion 2018	In design
Pomona	Anticipated Completion 2018	In design
Kaiser	Anticipated Completion 2018	In design
Woodland	Anticipated Completion 2018	In design
Whittier	Anticipated Completion 2019	
Mariners	Anticipated Completion 2019	
Newport Heights	Anticipated Completion 2019	
Ensign	Anticipated Completion 2019	
Newport El	Anticipated Completion 2019	
Harbor View	Anticipated Completion 2019	
Back Bay	Anticipated Completion 2019	
Costa Mesa HS/MS	Anticipated Completion 2020	Partial HVAC; full HVAC anticipated 2020
Newport Harbor	Anticipated Completion 2021	Partial HVAC; full HVAC anticipated 2021





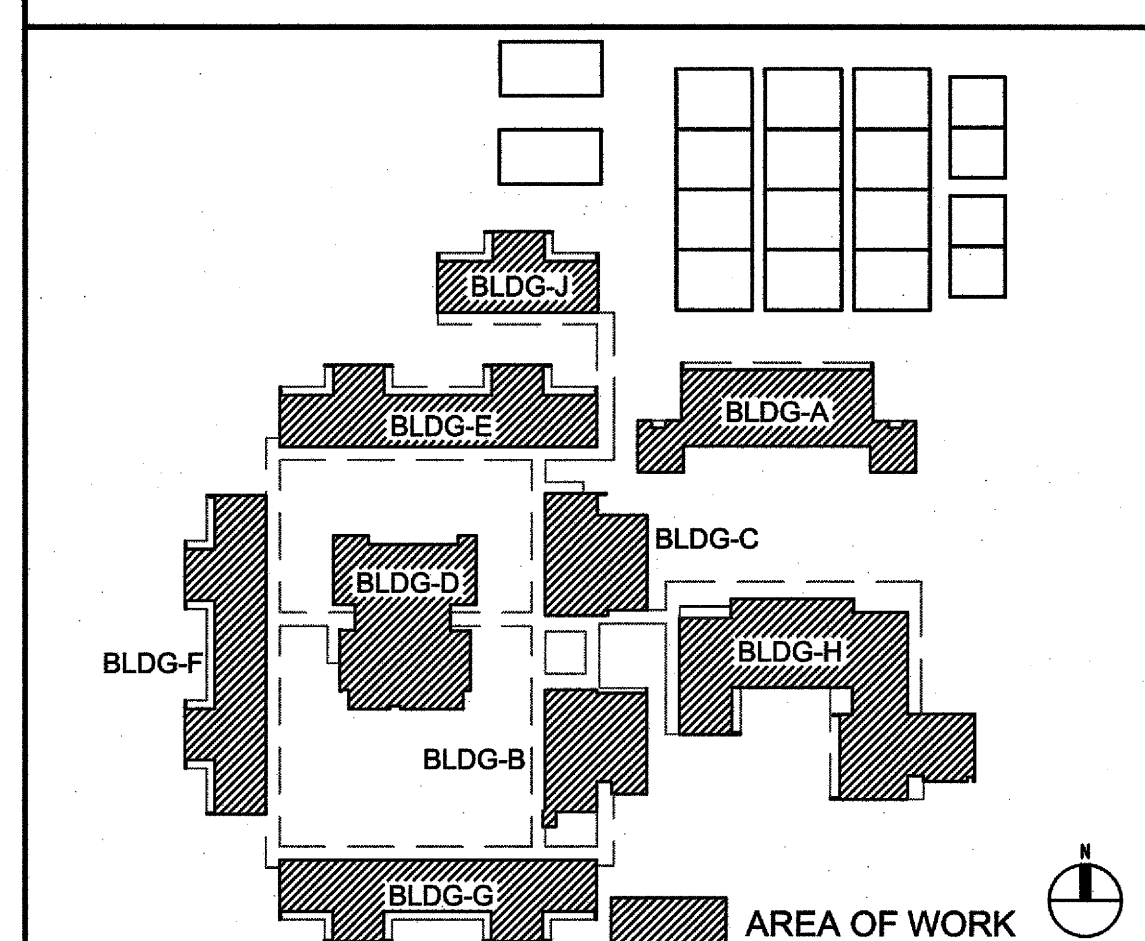
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SITE PLAN

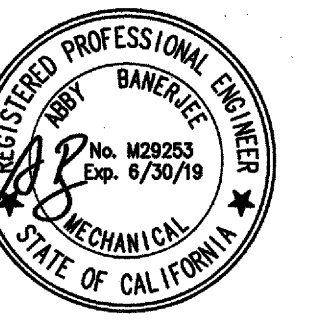
SCOPE OF WORK

- ① BUILDING A, CLASSROOM: REPLACE (E) ROOFTOP PACKAGED UNIT WITH (N) SPLIT HEAT PUMP/FAN COIL. THE BUILDING HAS (6) CLASSROOMS, EACH WITH AN (E) ROOFTOP PACKAGED UNIT ON THE ROOF. EXISTING DUCTWORK AND AIR DISTRIBUTION TO REMAIN. EACH CLASSROOM WILL BE SERVED BY (N) SPLIT FAN COIL UNIT. REFER TO MD-1 FOR DEMOLITION WORK IN THIS BUILDING. REFER TO M-1 FOR NEW WORK IN THIS BUILDING.
- ② BUILDING B, CLASSROOM: REPLACE (E) ROOFTOP PACKAGED UNIT WITH (N) SPLIT HEAT PUMP. THE BUILDING HAS (2) CLASSROOMS, EACH WITH AN (E) ROOFTOP PACKAGED UNIT ON THE ROOF. EXISTING DUCTWORK AND AIR DISTRIBUTION TO REMAIN BELOW ROOF AND EXPOSED DUCTWORK ON ROOF TO BE REMOVED AND REPLACED WITH NEW DUCTWORK. EACH CLASSROOM WILL BE SERVED BY (N) SPLIT FAN COIL UNIT. REFER TO MD-2 FOR DEMOLITION WORK IN THIS BUILDING. REFER TO M-2 FOR NEW WORK IN THIS BUILDING.
- ③ BUILDING C, CLASSROOM: REPLACE (E) ROOFTOP PACKAGED UNIT WITH (N) SPLIT HEAT PUMP. HEAT PUMP LOCATED ON ROOF OF BUILDING D. THE BUILDING HAS (2) CLASSROOMS. ONE WITH AN (E) ROOFTOP PACKAGED UNIT ON THE ROOF AND OTHER HAS (E) FURNACE UNIT. EXISTING DUCTWORK AND AIR DISTRIBUTION TO REMAIN BELOW ROOF AND EXPOSED DUCTWORK ON ROOF TO BE REMOVED AND REPLACED WITH NEW DUCTWORK. EACH CLASSROOM WILL BE SERVED BY (N) SPLIT FAN COIL UNIT. REFER TO MD-3 FOR DEMOLITION WORK IN THIS BUILDING. REFER TO M-3 FOR NEW WORK IN THIS BUILDING.
- ④ BUILDING D, LIBRARY AND ADMINISTRATION: REPLACE (E) ROOFTOP PACKAGED UNIT WITH TWO (N) VRF SYSTEMS, AND INDOOR FAN COILS. EXISTING DUCTWORK AND AIR DISTRIBUTION TO BE REMOVED. REFER TO MD-4 FOR DEMOLITION WORK IN THIS BUILDING. REFER TO M-4 FOR NEW WORK IN THIS BUILDING.
- ⑤ BLDG E, CLASSROOMS: REPLACE FOUR (4) EXISTING FAUS AND (E) ROOFTOP PACKAGED UNIT WITH (N) SPLIT HEAT PUMP/FAN COIL UNITS. THE BUILDING HAS (6) CLASSROOMS, FOUR CLASSROOMS WITH AN EXISTING FURNACE EACH IN A MECHANICAL CLOSET WITHIN THE CLASSROOM AND TWO (2) CLASSROOMS WITH ROOFTOP PACKAGED UNIT. THE SCOPE IN THE MECHANICAL CLOSET INCLUDES FURNACE REMOVAL AND WALL PATCH AND INSTALLING NEW FAN COIL UNITS AND CONNECTING EXISTING DUCTWORK UTILITIES TO NEW FAN COILS. EXISTING DUCTWORK TO BE MODIFIED TO USE WITH NEW AC UNITS. EACH CLASSROOM WILL BE SERVED BY (N) SPLIT FAN COIL UNIT. REFER TO MD-5 FOR DEMOLITION WORK IN THIS BUILDING. REFER TO M-5 FOR NEW WORK IN THIS BUILDING.
- ⑥ BLDG F, CLASSROOMS: REPLACE EXISTING FAUS IN CLASSROOMS WITH (N) SPLIT HEAT PUMP/FAN COIL UNITS. THE BUILDING HAS (6) CLASSROOMS, EACH WITH AN EXISTING FURNACE IN A MECHANICAL CLOSET WITHIN THE CLASSROOM. THE SCOPE IN THE MECHANICAL CLOSET INCLUDES FURNACE REMOVAL AND WALL PATCH AND INSTALLING NEW FAN COIL UNITS AND CONNECTING EXISTING DUCTWORK UTILITIES TO NEW FAN COILS. EXISTING DUCTWORK TO BE MODIFIED TO USE WITH NEW AC UNITS. EACH CLASSROOM WILL BE SERVED BY (N) SPLIT FAN COIL UNIT. REFER TO MD-6 FOR DEMOLITION WORK IN THIS BUILDING. REFER TO M-6 FOR NEW WORK IN THIS BUILDING.
- ⑦ BUILDING G, CLASSROOM: REPLACE SIX (6) EXISTING PACKAGED UNITS WITH (N) SPLIT HEAT PUMP/FAN COIL UNITS. THE BUILDING HAS SIX (6) CLASSROOMS, EACH WITH AN (E) ROOFTOP PACKAGED UNIT ON THE ROOF. EXISTING DUCTWORK AND AIR DISTRIBUTION TO REMAIN IN CLASSROOM. EACH CLASSROOM WILL BE SERVED BY (N) SPLIT FAN COIL WHICH WILL BE INSIDE EXISTING MECHANICAL ROOM. REFER TO MD-7 FOR DEMOLITION WORK IN THIS BUILDING. REFER TO M-7 FOR NEW WORK IN THIS BUILDING.
- ⑧ BUILDING H, ADMINISTRATION, OFFICE AND MUSIC ROOM: ADMIN, MPR, KITCHEN AND BAND ROOM / 8 TON VRF FOR ADMIN AREA AND CLASSROOM AND 14 TON VRF FOR BAND ROOM AND CLASSROOM. 2.5 TON SPLIT SYSTEM FOR IDF ROOM. INDOOR FAN COILS ARE INSIDE ADMIN AREA CLASSROOM, BAND ROOM, IDF ROOM. 8 TON VRF AND 4.5 TON SHP SYSTEM UNITS ARE LOCATED ON ROOF AT BUILDING D. 14 TON VRF OUTDOOR UNIT ON GROUND. REFER TO MD-8 FOR DEMOLITION WORK IN THIS BUILDING. REFER TO M-8 FOR NEW WORK IN THIS BUILDING. MPR AND KITCHEN ARE NOT IN SCOPE OF WORK.
- ⑨ BUILDING I, CLASSROOM: REPLACE EXISTING FAUS IN CLASSROOMS WITH (N) SPLIT HEAT PUMP/FAN COIL UNITS. THE BUILDING HAS (3) CLASSROOMS, EACH WITH AN EXISTING FURNACE IN A MECHANICAL CLOSET WITHIN THE CLASSROOM. THE SCOPE IN THE MECHANICAL CLOSET INCLUDES FURNACE REMOVAL AND WALL PATCH AND INSTALLING NEW FAN COIL UNITS AND CONNECTING EXISTING DUCTWORK UTILITIES TO NEW FAN COILS. EXISTING DUCTWORK TO BE MODIFIED TO USE WITH NEW AC UNITS. EACH CLASSROOM WILL BE SERVED BY (N) SPLIT FAN COIL UNIT. REFER TO MD-9 FOR DEMOLITION WORK IN THIS BUILDING. REFER TO M-9 FOR NEW WORK IN THIS BUILDING.
- ⑩ PORTABLE BUILDINGS: NOT IN SCOPE OF WORK.



KEY PLAN

STAMP



PROJECT NAME:

DAVIS MAGNET SCHOOL

1050 ARLINGTON DRIVE
COSTA MESA, CA 92626

No.	Rev.	Date	Description
2017-09-26	1ST	DSA SUBMITTAL	
2018-01-16	DSA BACKCHECK		
JOB NO:	570036		
DATE:	2018-01-16		
DRAWN:			
CHECK:			
ARCHITECT:			
ENGINEER:	OED		
CONSULTANT			

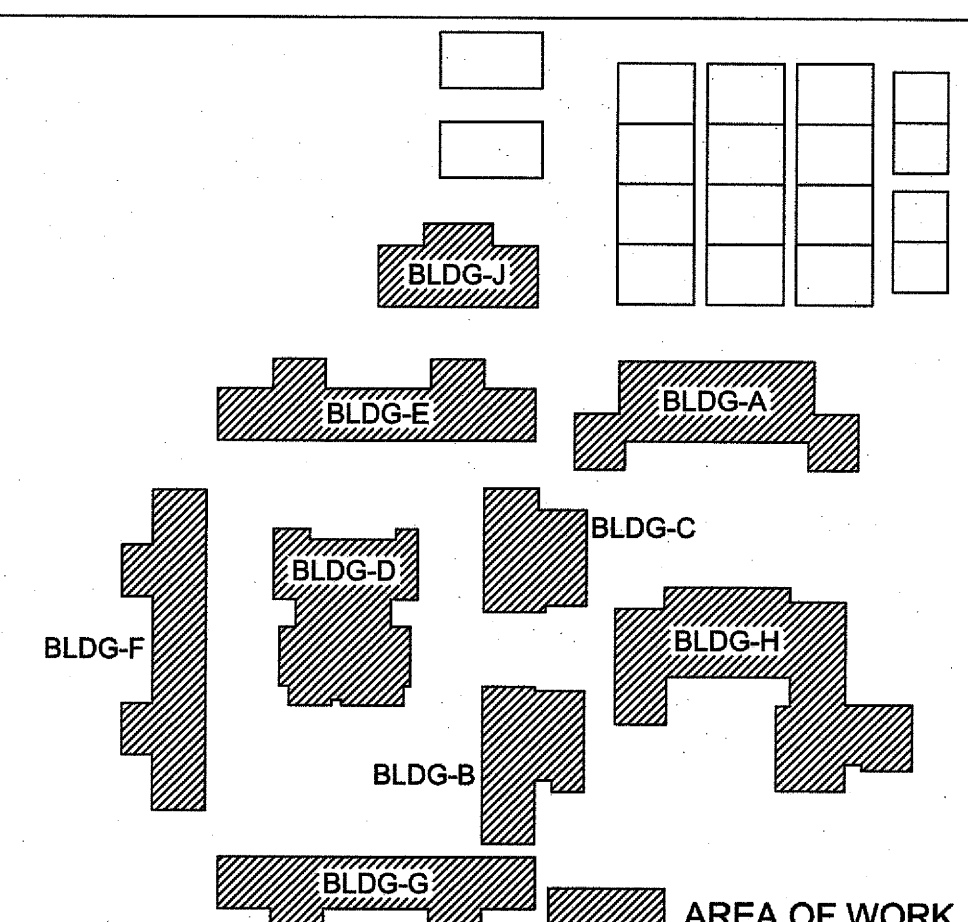
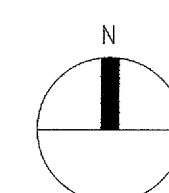
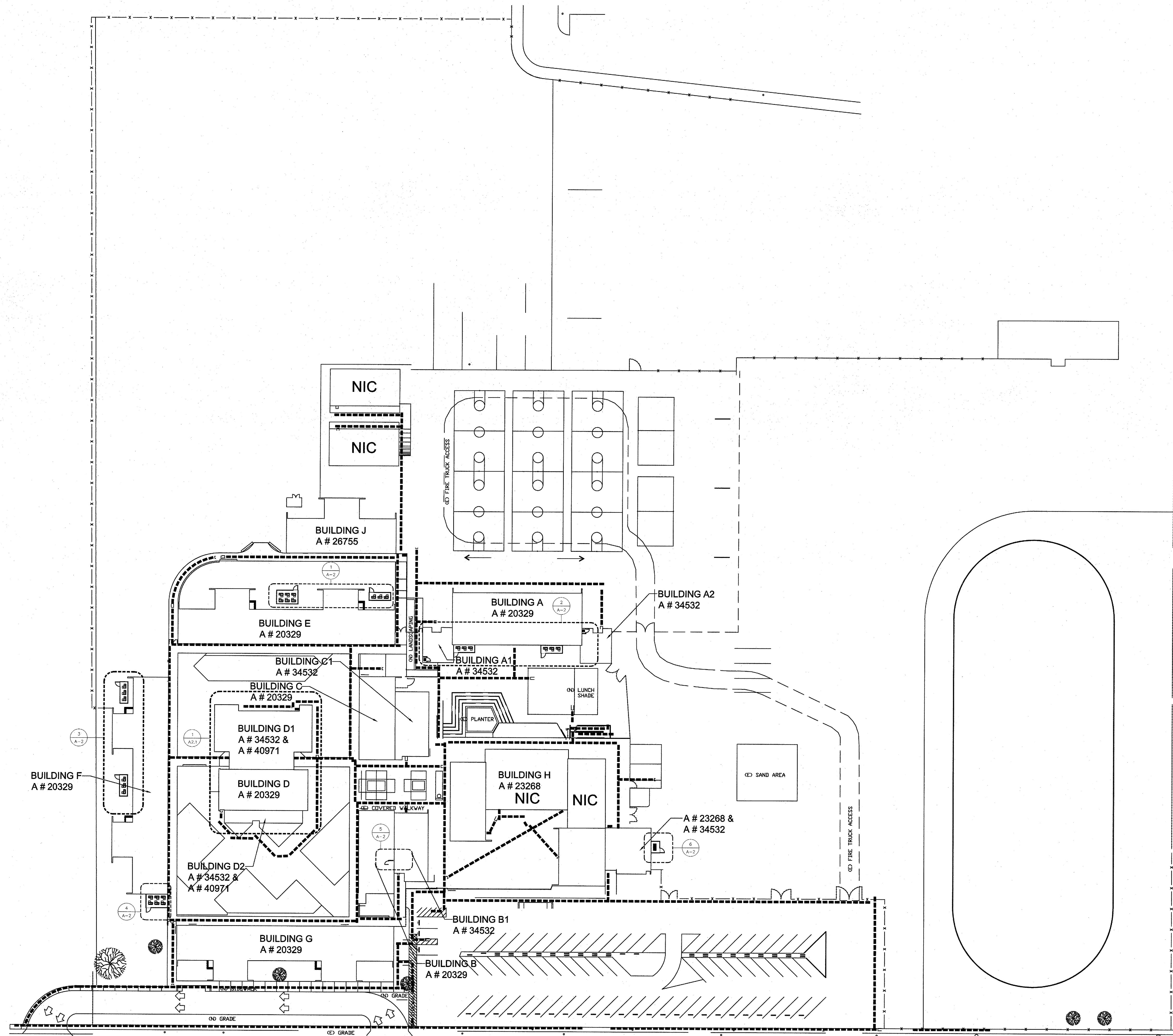
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STATE: IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP # 4-116609
AC: FLS, H, SS
DATE: JAN 16 2018
SHEET DESCRIPTION:

SITE PLAN

SHEET NO:

T-2



FENCE ENCLOSURE SITE PLAN

1" = 40'-0"

1

KEY PLAN

NOT TO SCALE

STAMP

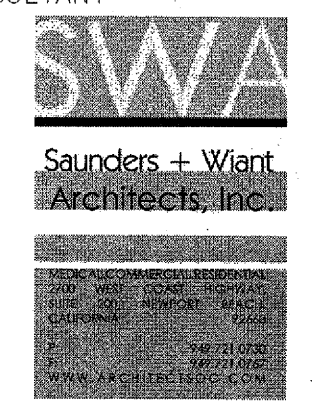


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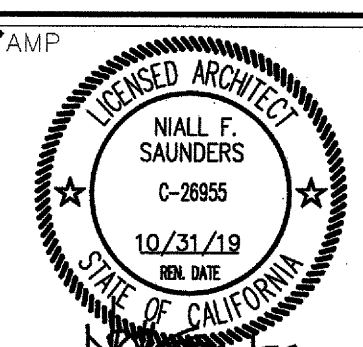
DAVIS MAGNET SCHOOL
1050 ARLINGTON DRIVE
COSTA MESA, CA 92626

No.	Rev.	Date	Description
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2018-01-16	DSA BACKCHECK		
JOB NO:	570036		
DATE:	2018-01-16		
DRAWN:	MR		
CHECK:			
ARCHITECT:	SWA		
ENGINEER:	OED		

CONSULTANT



STAMP



STATE:

IDENTIFICATION STAMP
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APP # 4-116609

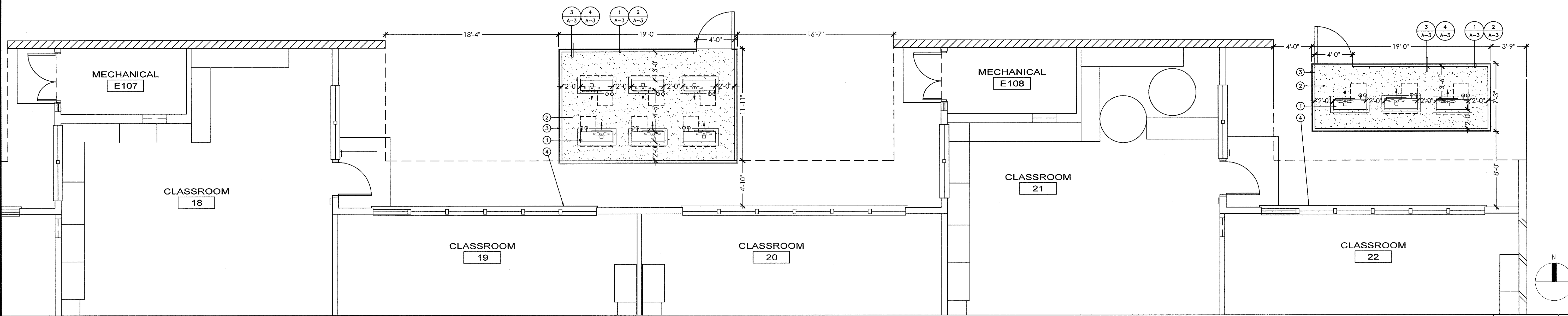
AC FLS SS SS
DATE JAN 16 2018

SHEET DESCRIPTION:

FENCE ENCLOSURE SITE PLAN

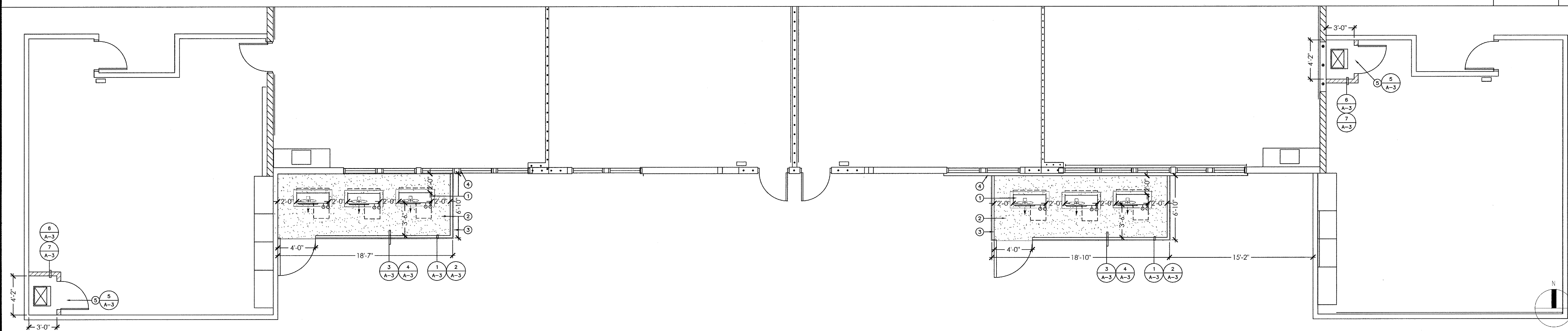
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A-1



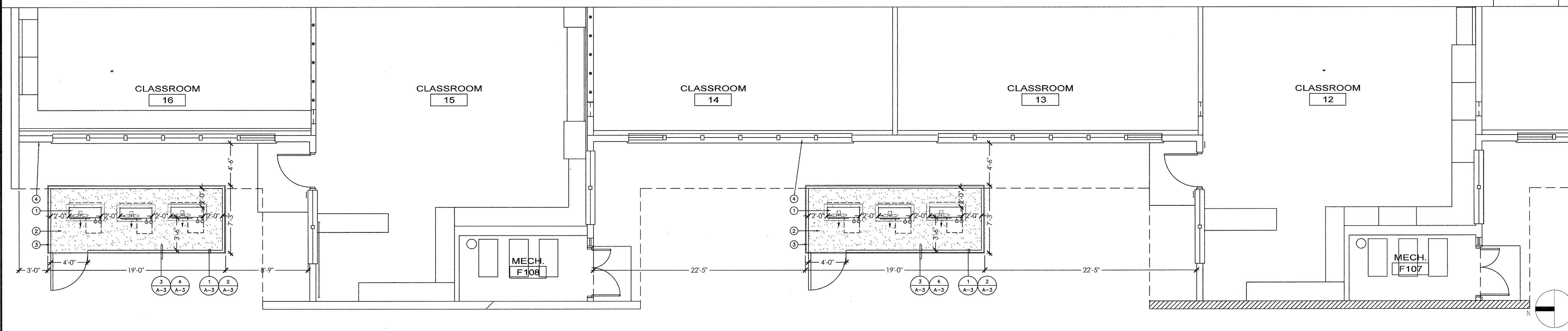
BUILDING E REMODEL FLOOR PLAN

3/16" = 1'-0" 1



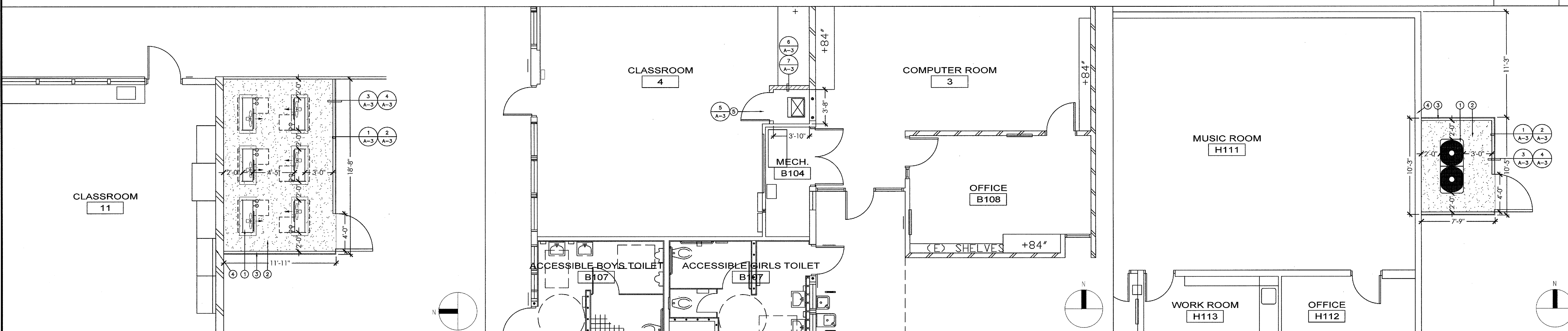
BUILDING A REMODEL FLOOR PLAN

3/16" = 1'-0" 2



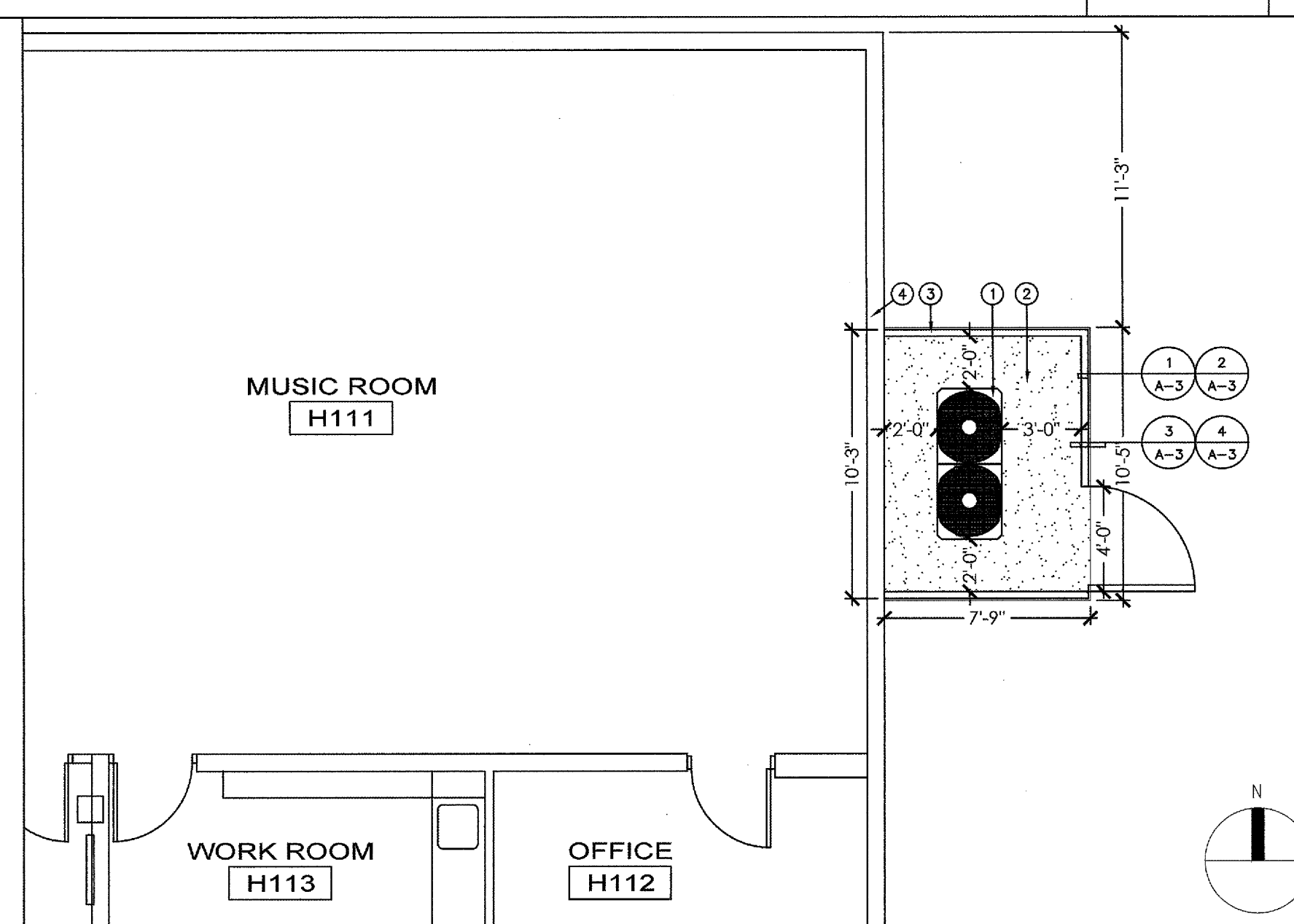
BUILDING F REMODEL FLOOR PLAN

3/16" = 1'-0" 3



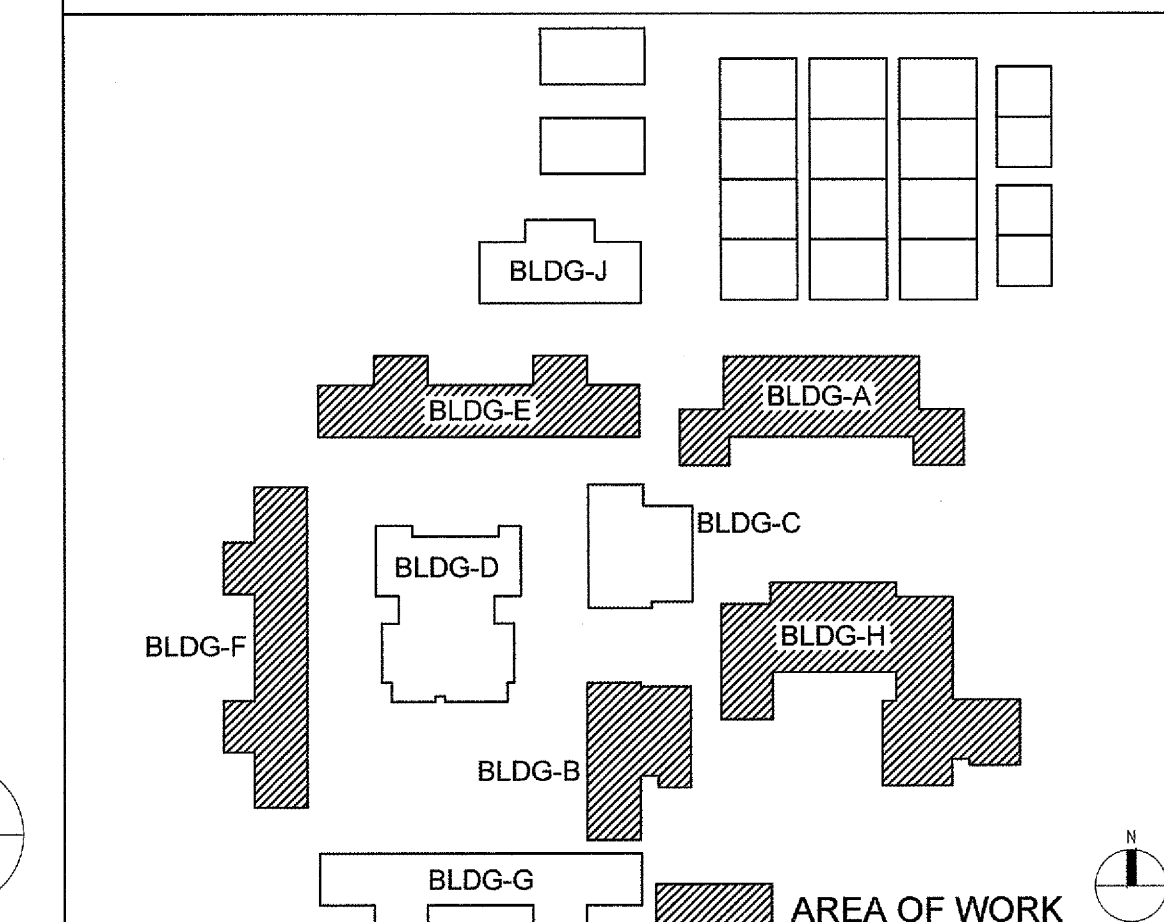
BUILDING B REMODEL FLOOR PLAN

3/16" = 1'-0" 4



BUILDING H REMODEL FLOOR PLAN

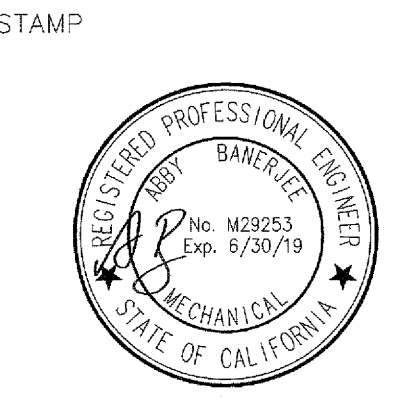
3/16" = 1'-0" 5



KEY PLAN

NOT TO SCALE

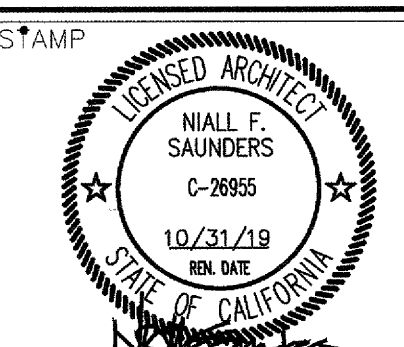
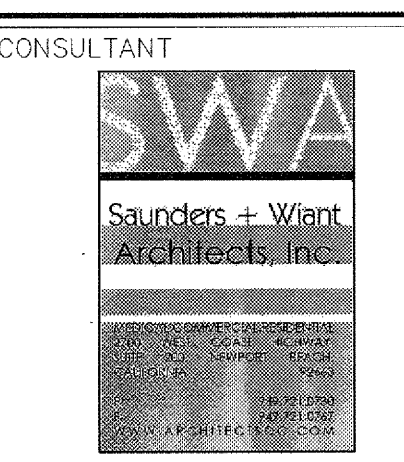
- CONSTRUCTION NOTES:**
1. CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AS NECESSARY PRIOR TO INSTALLATION.
 2. CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES FROM ALL ELECTRICAL EQUIPMENT AND SERVICE CLEARANCES FOR MECHANICAL EQUIPMENT.
 3. CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT PAD SIZES AND LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION.
 4. CONTRACTOR SHALL INSULATE ALL REFRIGERANT PIPING SUCTION LINES, AND PROVIDE WEATHER JACKETING FOR ALL REFRIGERANT PIPING.
 5. BEFORE BIDDING ON THIS WORK, THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE PREMISES, EXISTING EQUIPMENT AND SERVICES. HE SHALL DEFINITELY DETERMINE IN ADVANCE, THE METHODS OF INSTALLING AND CONNECTING THE NEW EQUIPMENT, DUCTWORK, AND PIPING THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT AND MATERIALS INTO PLACE AND SHALL MAKE HIMSELF THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE PROJECT. FAILURE TO VISIT THE SITE WILL IN NO WAY RELIEVE THE SUCCESSFUL CONTRACTOR OF THE NECESSITY OF FURNISHING ANY MATERIAL OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THIS ADDITIONAL SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER.
 6. BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES IN THE AREA OF CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 7. PATCH AND REPAIR EXISTING SURFACES AS REQUIRED TO FACILITATE DEMOLITION AND/OR PERFORMANCE OF THE NEW WORK. ALL NEW WORK SHALL MATCH IN KIND, QUALITY AND FINISH U.O.N.
- FLOOR PLAN CONSTRUCTION KEY NOTES**
1. NEW SPLIT SYSTEM HEAT PUMPS - MOUNT PER MANU. - SEE MECHANICAL.
 2. NEW CONCRETE PAD - SEE DETAIL 4-3
 3. NEW CHAIN LINK FENCE ENCLOSURE W/ 48" GATE - BY MASTER HALCO OR EQUIV. - SEE A-3 FOR DETAILS.
 4. EXIST. BLDG. FACE TO REMAIN - PROTECT IN PLACE DURING INSTALL.
 5. NEW MECH. CLOSET W/ NEW 3050 MECH. ACCESS DOOR SET 24" A.F.F. TO NEW MECH. PLATFORM. SOLID CORE WOOD DOOR W/ WESTERN INTEGRATED AND, CLR. KNOCKDOWN FRAME & SOUND SEALS, 1 PAIR 4" BUTT HINGES, LOCKING LEVER HARDWARE BY SCHLAGE, COLOR TO MATCH EXIST.



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ENGINEER:	OED		



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APP # 4-116609
AC - ELS - SS
DATE JAN 16 2019

SHEET DESCRIPTION:
FENCE ENCLOSURE PLAN
SHEET NO:
A-2