

November 24, 2021

Aedis Architects 387 S. First St., Suite 300 San Jose, CA 95113

Subject: North Shoreview Elementary School HVAC Replacement

San Mateo - Foster City School District

Aedis Project No. 2021005.05 DSA Application #01-119554

ADDENDUM NO. 1

CHANGES AND/OR CLARIFICATIONS OF THE DRAWINGS AND SPECIFICATIONS ARE AS FOLLOWS:

SPECIFICATIONS

ITEM NO. 1.1: TABLE OF CONTENTS

<u>Add:</u> 26 24 13 SWITHCHBOARDS, 600 VOLTS AND BELOW

Add: 31 23 16 TRENCHING

ITEM NO. 1.2: SECTION 23 05 00 – HEATING, VENTILATING, AIR CONDITIONING

Revise: Headers and part 2.1 per 23 05 00 Heating, Ventilating, Air Conditioning.

ITEM NO. 1.3: SECTION 32 13 26 - TRENCHING

<u>Add:</u> The specification in its entirety per 32 13 26 Trenching.

DRAWINGS

ARCHITECTURAL

<u>ITEM NO. 1.4:</u> <u>DRAWING SHEET T1 – TITLE SHEET</u>

Revise: General Notes 7 to read as "ALL EXISTING FINISHES OR MATERIALS DAMAGED OR

DEMOLISHED DUE TO NEW CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL STATE, INCLUDING BUT NOT LIMITED TO REINSTALLING OR REPLACING EXISTING CHAINLINK FENCING AS REQUIRED AND RESTRIPING PAVING IN KIND. S.E.D. FOR TRENCH ROUTING. VERIFY IN FIELD AND SEE ARCHITECTURAL SITE

PLAN FOR STRIPING AT EXISTING PAVING"

<u>ITEM NO. 1.5:</u> <u>DRAWING SHEET A1.02 – SITE PLAN</u>

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Add: Trench area to New Site Plan 1/A1.02 & Graphic Key per AD1-A1.02

Add: Keynote 18 to New Site Plan 1/A1.02 per AD1-A1.02

Add: Keynotes #19, #20, and #22, to Demolition Enlarged Site Plan 3/A1.02 per AD1-

A1.02

Add: Keynotes #21, #23, #24 & #25 to New Enlarged Site Plan 2/A1.02 per AD1-A1.02

Add: General Sheet Notes #H per AD1-A1.02

Revise: New chain link fence graphics at New Enlarged Site Plan 2/A1.02 per AD1-A1.02

Revise: New Site Plan Sheet Notes #10 per AD1-A1.02

<u>ITEM NO. 1.6:</u> <u>DRAWING SHEET A2.01 – DEMOLITION FLOOR PLAN – BLDGS A, B, & C</u>

Add: General Sheet Note #I per AD1-A2.01

Revise: Demolition Floor Plan Keynotes #1 & #16 per AD1-A2.01

Add: Keynote #8 to Demolition Floor Plans 1/A2.01 and 2/A2.01 per AD1-A2.01 Add: Keynote #16 to Demolition Floor Plans 1/A2.01, 2/A2.01, and 3/A2.01 per

AD1-A2.01

Add: Partial ceiling demolition keynote #20 to Demolition Floor Plans 1/A2.01 and

2/A2.01 per AD1-A2.01

ITEM NO. 1.7: DRAWING SHEET A2.02 – NEW FLOOR PLAN – BLDGS D & E

Add: General Sheet Note #I per AD1-A2.02

Revise: Demolition Floor Plan Keynotes #1 & #6 per AD1-A2.02

Add: Equipment removal keynote #8 to Demolition Floor Plan 1/A2.02 per AD1-A2.02

Add: Partial ceiling demolition keynote #20 to Demolition Floor Plan 1/A2.02 per

AD1-A2.01

ITEM NO. 1.8: DRAWING SHEET A3.01 – NEW FLOOR PLANS – BLDGS A, B, & C

Add: Door tags 8ab & 11ab to New Floor Plans 1/A3.01 and 2/A3.01 per AD1-A3.01

Revise: New Floor Plan Keynotes #8 & #9 per AD1-A3.01

Add: Ceiling patching keynote #17 to New Floor Plans 1/A3.01 and 2/A3.01 per

AD1-A3.01

<u>ITEM NO. 1.9:</u> <u>DRAWING SHEET A3.02 – NEW FLOOR PLANS – BLDGS D & E</u>

Add: Door tag 20ab to New Floor Plan 1/A3.02 per AD1-A3.02

Revise: New Floor Plan Keynote #7 per AD1-A3.02

<u>Add:</u> Ceiling patching keynote #9 to New Floor Plan 1/A3.02 per AD1-A3.02

ITEM NO. 1.10: DRAWING SHEET A4.01 – REFLECTED CEILING PLANS

Revise: View 3/A4.01 typical RCP at cement plaster or gypsum board per AD1-A5.01

<u>ITEM NO. 1.11:</u> <u>DRAWING SHEET A5.01 – SITE ROOF PLAN</u>

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Add: Roof Exhaust fans per AD1-A5.01
Roof Plan Keynote #4 per AD1-A5.01

Revise: Roof Plan Keynotes #2 and #3 per AD1-A5.01

ITEM NO. 1.12: DRAWING SHEET A8.10 – EXTERIOR DETAILS

Revise: Detail 9 per AD1-A8.10

<u>ITEM NO. 1.13:</u> <u>DRAWING SHEET A9.10 – INTERIOR ELEVATIONS & DETAILS</u>

Revise:Detail 1 per AD1-A9.10AAdd:Detail 19 per AD1-A9.10ARevise:Detail 6 per AD1-A9.10B

ITEM NO. 1.14: DRAWING SHEET A11.01 – FINISH SCHEDULE & OPENING SCHEDULE, LEGENDS &

DETAILS

Add: Doors 8ab, 11ab & 20ab to Door Schedule per AD1-A11.01A

Add: Door Schedule Comments per AD1-A11.01A

Add: Door type B per AD1-A11.01A

Revise: Finish Schedule per AD1-A11.01B

STRUCTURAL

ITEM NO. 1.15: DRAWING S5.02 – TYPICAL CONCRETE DETAILS

Add: Detail 10 for fence gate post foundation per AD1-S5.02.

MECHANICAL

ITEM NO. 1.16: DRAWING MPO.02 – SCHEDULES - MECHANICAL

Revise: Classroom Split system heat pump per AD1-MP0.02.

Revise: Revise FC-6 and FC-7 CFM per AD1-MP0.02.

Add: Roof exhaust fan schedule per AD1-MP0.02

ITEM NO. 1.17: DRAWING MP2.03 – FLOOR PLAN – NEW – BLDGS A, B & C – MECHANICAL &

PLUMBING

Revise: Revise CFM per AD1-MP2.03a.

Revise: General Notes #4 & #5 AD1-MP2.03a.

Add: New Sheet Note #18 AD1-MP2.03a.

Add: Roof exhaust fan at Janitor 8A per AD1-MP2.03a. Roof exhaust fan at closet 11A per AD1-MP2.03b.

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ITEM NO. 1.18: DRAWING MP2.04 – FLOOR PLAN – NEW – BLDGS D & E – MECHANICAL &

PLUMBING

Revise: Revise General #4 & #5 per AD1-MP2.04.

Add: New Sheet Note #22 AD1-MP2.04a.

Dimensions added per AD1-MP2.04a

Add: Roof exhaust fan at Mech Room 20A per AD1-MP2.04a
Roof exhaust fan at Table storage per AD1-MP2.04b

ITEM NO. 1.19: DRAWING SHEET MP6.01 – DETAILS – MECHANICAL & PLUMBING

Revise: Detail 4/MP6.01 per AD1-MP6.01.

Add: Detail 15/MP6.01 per AD1-MP6.01

ELECTRICAL

<u>ITEM NO. 1.20:</u> <u>DRAWING SHEET E1.1 – ELECTRICAL SITE PLAN</u>

Revise: Conduit Tag #4, #5, #6, #11, #12, #13, #14, #15, #16 and #17 per AD1- E1.1.

Revise: The layout of the site plan per AD1-E1.1.

Revise: Electrical Switchgear Dimensions 2/E1.1 per AD1-E1.1.

Add: Sheet Notes #14 and #15 per AD1-E1.1.

ITEM NO. 1.21: DRAWING SHEET E3.1 - ELECTRICAL NEW FLOOR PLANS – BLDGS A, B, & C

Add: General Note #7 per AD1-E3.1.

Add: Sheet Note #17 and #18 per AD1-E3.1.

Add: Power for exhaust fan at building per AD1-E3.1.

Revise: Sheet Notes #1 and #2 per AD1-E3.1.

Revise: Power plans per AD1-E3.1.

ITEM NO. 1.22: DRAWING SHEET E3.2 - ELECTRICAL NEW FLOOR PLANS – BLDGS D &E

<u>Add:</u> General Note #7 per AD1-E3.2.

Add: Sheet Note #10, #11, #12 and #13 per AD1-E3.2.

Add: Power for exhaust fan at building per AD1-E3.2.

Add: Conduit routing in Multi-Use building per AD1-E3.2.

Revise: Power plans per AD1-E3.2.

Revise: Sheet notes #1 and #2 per AD1-E3.1.

ITEM NO. 1.23: DRAWING SHEET E4.1 - DEMO SINGLE LINE DIAGRAM

Revise: Demolition Sheet Note #6 per AD1-E4.1.

Revise: Demolition requirements for Main Switchboard per AD1-E4.1

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<u>ITEM NO. 1.24:</u> <u>DRAWING SHEET E4.2 - NEW SINGLE LINE DIAGRAM</u>

<u>Revise:</u> Power connection requirements for Bldg. E per AD1-E4.2<u>Revise:</u> Demolition requirements for Main Switchboard per AD1-E4.2.

Revise: Switchboard to be OFCI per AD1-E4.2.

Revise: Spare circuit breakers at main switchboard per AD1-E4.2.

ITEM NO. 1.25: DRAWING SHEET E4.3 – PANEL SCHEDULE

Revise: Panel Schedule and main circuit breaker in panels per AD1-E4.3

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Mechanical, Cypress Engineering Group Metin Serttunc

Division of the State Architect

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Attachments:

Specifications:

23 05 00 Heating Ventilating Air Conditioning (23 pages)

31 23 16 Trenching (5 pages)

Drawings:

ARCHITECTURAL

SHEET AD1-A1.02

SHEET AD1-A2.01

SHEET AD1-A2.02

SHEET AD1-A3.01

SHEET AD1-A3.02

SHEET AD1-A4.01

SHEET AD1-A5.01

SHEET AD1-A8.10

SHEET AD1-A9.10A

SHEET AD1-A9.10B

SHEET AD1-A11.01A

SHEET AD1-A11.01B

STRUTURAL

SHEET AD1-S5.02

MECHANICAL

SHEET AD1-MP0.02

SHEET AD1-MP2.03a

SHEET AD1- MP2.03b

SHEET AD1- MP2.04a

SHEET AD1- MP2.04b

SHEET AD1- MP6.01

ELECTRICAL

DRAWING SHEET AD1-E1.1

DRAWING SHEET AD1-E3.1

DRAWING SHEET AD1-E3.2

DRAWING SHEET AD1-E4.1

DRAWING SHEET AD1-E4.2

DRAWING SHEET AD1-E4.3

SECTION 23 05 00 - HEATING, VENTILATING, AIR CONDITIONING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, Division 01, and Division 23 Sections apply to this Section.

1.2 SCOPE OF WORK

A. Provide labor, materials, equipment, and services to furnish and install complete mechanical systems which shall include, but not limited to equipment, ductwork, piping, accessories, insulation, and supports.

1.3 SUBMITTALS

- A. Submit for review, within fifteen (15) days after signing Contract, the required number of copies of a complete list of materials proposed for use. This list includes:
- 1. Split System Heat Pumps.
- 2. Ductwork.
- 3. Duct Insulation and Lining.
- 4. Dampers and Duct Accessories.
- 5. Filters.
- 6. Diffusers, Registers, and Grilles.
- 7. Refrigerant Piping.
- 8. Mechanical Supports.
- 9. Shop Drawings:
 - Power, signal, and control wiring diagrams including detailed wiring diagrams that clearly differentiate between manufacturer-installed and fieldinstalled wiring.

10. Qualification Data:

- a. Certificate from VRF system manufacturer certifying that installer has successfully completed prerequisite training administered by manufacturer for proper installation of systems, including but not limited to, equipment, piping, controls, and accessories indicated and furnished for installation.
- B. No substitute materials or equipment shall be installed without the written approval of the Architect.
- C. No increase in the contract price will be considered to accommodate the use of alternative equipment, including revisions required by other trades.

D. Submit test reports on all systems tested. Tests required by Authorities Having Jurisdiction over the work shall be submitted on appropriate forms to the satisfaction of such authorities.

1.4 QUALITY ASSURANCE

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- A. Manufacturer Qualifications:
 - 1. Nationally recognized manufacturer of VRF HVAC systems and products.
 - 2. Shipped VRF HVAC systems with similar requirements to those indicated for a continuous period of five (5) years.
- B. Installer Qualifications:
 - 1. Each employee shall be certified by manufacturer for proper installation of systems, including, but not limited to, equipment, piping, controls, and accessories indicated and furnished for installation.
 - 2. Installer certification shall be valid and current for duration of Project.
 - 3. Installer shall have demonstrated past experience with products being installed for period within five (5) consecutive years before time of bid.

1.5 WARRANTY

- A. The units shall be covered by the manufacturer's standard limited warranty for a period of 12 months from date of installation. If during this period, any part should fail to function properly due to defects in workmanship or material, it shall be replaced or repaired at the discretion of the manufacturer.
- B. The units shall carry an extended manufacturer's parts and compressor warranty for a period of 10 years from date of installation. The following steps shall be taken by the contractor to ensure systems are eligible for extended warranty.
 - 1. System is designed and submitted using the approved application tool.
 - 2. System installed by a contractor who has successfully completed the OEM factory training class.
 - 3. Upon completion of installation and prior to final commissioning, contractor shall provide revised piping layout reflecting actual installation conditions to VRF manufacturer.
 - 4. Provide a verified and submitted commissioning report to Owner, VRF manufacturer and contractor.
- C. The contractor shall provide labor warranty as specified in the general conditions for this project.

PART 2 – PRODUCTS

2.1 HVAC EOUIPMENT

- A. Furnish and install all equipment in accordance with Drawings, manufacturer's recommendations, and all applicable codes. Split system heat pumps regardless of location shall be provided by a sole source. Acceptable manufacturers:
 - 1. Heat Pumps, Indoor Unit:
 - a. Samsung (Basis of Design), see drawings for model number.
 - b. Daikin model number at classroom, FXTQ54TAVJUA
 - c. Mitsubishi model number at classroom, TPVFYP054
 - 2. Heat Pump, Outdoor Unit:
 - a. Samsung (Basis of Design), see drawings for model number.
 - b. Daikin model number at classroom, RXTO60TAVJUA.
 - c. Mitsubishi model number at classroom, TUMYP060.

2.2 FILTERS

- A. Filters shall be 2"-thick of size and number required for equipment and selected for 300 FPM velocity.
- B. Filters shall be throwaway type, Class 2 UL listed.
- C. Filters shall be minimum MERV 13 based on ASHRAE Standard 52.2 test method.

2.3 DUCTWORK

- A. Comply with latest edition of SMACNA HVAC Duct Construction Standards, Metal and Flexible for acceptable materials, material thicknesses, and duct construction methods, unless otherwise indicated. Comply with NFPA 90A when ducts traverse through smoke zones.
- B. Comply with UL 181 and California Energy Code Section 120.4 requirements for air distribution ducts and plenums.
- C. Ducts shall be minimum 24 gauge thickness. Ducts shall be constructed for 2500 FPM maximum velocity and static pressure classes as follows:
 - 3. Supply Ducts: +3 inch w.g.
 - 4. Return Ducts: 2 inch w.g.
 - 5. Exhaust Ducts: -2 inch w.g.
- D. Longitudinal seams: Groove and Pittsburgh lock seams and slip joints shall be used.
- E. Duct Connections: Ductmate industries "Ductmate 35" and "Ductmate 45". Ductmate "Spiralmate" for round duct. Ductmate "Ovalmate" for oval duct.

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- F. Duct sealing shall be DP 1010 water based duct sealant and SMACNA approved foil-backed pressure sensitive tape or Hardcast, Two Part II Duct Sealing System: DT-5400 tape with RTA-50 sealant.
- G. Flexible ducts shall be UL 181 and Class I air duct in compliance with SMACNA HVAC Duct Construction Standards, Metal and Flexible, and NFPA 90A and 90B.
- H. Flexible ducts shall be two-ply vinyl film supported by helically wound spring-steel wire, R4.2 fiberglass insulation, exterior reinforced laminated vapor barrier film. Duct shall be rated for +2 inch w.g., -1 inch w.g., 4000 FPM maximum velocity, and -10°F to +160°F. Flame Spread less than 25, Smoke Developed less than 50.

2.4 DUCT INSULATION AND LINING

- A. All duct insulation and lining shall comply with California Energy Code Section 120.4 requirements for air distribution ducts and plenums.
- B. Insulation shall conform to NFPA 90A and 90B, and UL 181, Class I. Insulation shall have Flame Spread not over 25 and Smoke Developed of not over 50.
- C. Wherever external duct insulation is specified and internal acoustic treatment of equivalent insulating effect is also required by the Drawings or Specification for the same location, the external insulation may be omitted.
- D. Acceptable Manufacturers: Johns Manville, Owens Corning or approved equal.
- E. Acoustic Duct Liner: 1" thick, R4.2 in directly conditioned space and 2" thick, R8.0 in unconditioned space or outdoors. Owens Corning Quiet R, or approved equal.
- F. Duct Insulation: 3" thick, R8.3 in unconditioned space and 1 1/2" thick, R4.2 for indirectly conditioned space. Owens Corning SoftR Ductwrap FRK, or approved equal.
- G. Duct Insulation Outdoor: 2" thick rigid board fiberglass, R8.7 with 0.016 inch thick sheet Aluminum jacket.

2.5 REGISTERS, DIFFUSERS AND GRILLES

- A. Acceptable manufacturers: Titus, Krueger.
- B. Registers, diffusers, and grilles shall be as indicated on Drawings. Drawings and schedules indicate specific requirements of air inlets and air outlets. Other manufacturers' products with equal quality, appearance, finish, and performance characteristics may be considered.
- C. Registers shall have adjustable air pattern for setting in field to match field conditions. Redirect air pattern when required.
- D. Refer to Architectural Drawings and Specifications for reflected ceiling plans, elevations, wall and ceiling type and construction. Coordinate frame and border types to accommodate the wall or ceiling specified or shown on the Architectural Drawings.
- E. Registers, diffusers, and grilles in fire-rated ceilings or walls shall be all-steel construction.

2.6 DAMPERS AND DUCT ACCESSORIES

- A. Acceptable manufacturers:
 - 6. Dampers: Ruskin, Air Balance Inc, Pottorff, or approved equal.
 - 7. Acutuators: Belimo, Honweywell, or approved equal.
 - 8. Turning vanes: Ductmate industries, Duro Dyne, or approved equal.
 - 9. Flexible connectors: Duro Dyne, Ventafabrics, or approved equal.
 - 10. Duct access doors: Ductmate industries, Ward industries, or approved equal.
 - 11. Backdraft dampers: Ruskin, Greenheck, Air Balance Inc, or approved equal.
- B. Provide volume dampers as specified or shown on the Drawings for proper balancing and distribution of air. Provide single blade dampers in ducts 24 inches in width or less, or 12 inches in height or less. Provide multiple blade, opposed blade design, dampers for all other duct sizes. Coordinate with the balancing contractor and provide additional dampers required for proper air balance.
- C. Dampers shall be galvanized steel construction and shall be minimum 2 gauges thicker than duct gauge. Damper shall be pivoted to turn easily, provided with operating handles and locking devices mounted on the outside of the duct in an accessible location. Dampers shall be reinforced for rigidity.
- D. Damper actuators for control dampers shall be modulating, 24V power supply, 0-10V DC control input, weatherproof construction.
- E. Turning vanes shall comply with SMACNA HVAC Duct Construction Standards, Metal and Flexible for vanes and vane runners. Vane runners shall automatically align vanes.
- F. Manufactured Turning Vanes: Fabricate 1 1/2" wide, double vane, curved blades of galvanized steel construction set to 3/4" o.c. Support with bars perpendicular to blades set 2" o.c. and set into vane runners suitable for duct mounting.
- G. Flexible duct connectors shall be flame retardant fabrics, coatings, and adhesives complying with UL 181, Class I. Where exposed to weather, fabric shall be double coated with weatherproof, synthetic rubber resistant to UV rays.
- H. Duct access doors shall be airtight and suitable for duct pressure class, constructed of galvanized steel with insulation fill as integral part of appropriate thickness. Include cam latches, sash locks, and hinges such that doors can easily be opened without tools. Seal around frame with neoprene or foam rubber.
- I. Backdraft dampers shall be multi blade, parallel action gravity balanced, or adjustable counter-balance weighted dampers. Dampers shall have center pivoted blades of maximum 6" width, with sealed edges, assembled in rattle free manner with 90-degree stop. Provide with adjustment device to permit setting for varying differential static pressure.

2.7 REFRIGERANT PIPING

- A. Refrigerant line kits: Soft-annealed copper suction and liquid lines factory cleaned, dried, pressurized, and sealed. Factory insulated lines with flared fittings at both ends. Mueller Streamline Co., JMF Company, or approved equal.
- B. Refrigerant pipe insulation shall be minimum 1" thick flexible closed cell elastomeric foam complying with ASTM C543 with UV retardant, and resistant to mold and mildew. Outdoor piping shall have insulation covered with .016 inch thick aluminum jacket.
- C. Refrigerant pipe insulation shall meet requirements of California Energy Code Section 120.3.

2.8 HANGERS AND SUPPORTS

- A. Subject to compliance with requirements, provide products by one of the following manufacturers or other approved equal:
 - 1. B-Line.
 - Mason West.
 - 3. Unistrut.
 - 4. Power Strut.
 - 5. Hilti.
- B. Qualify welding processes and operators according to ASME Boiler and Pressure Vessel Code. Comply with AWS D1.1 procedures for field welding.
- C. Duct attachments: Sheet metal screws, blind rivets, or self-tapping metal screws; compatible with duct materials.

2.9 SLEEVES

- A. Construct sleeves for pipes passing through walls, floors, partitions, hung or furred ceilings, etc. of minimum 18 gage galvanized steel, flanges on each side of wall, partition, hung or furred ceiling, etc.
- B. Provide standard weight galvanized steel pipe sleeves with welded anchor flanges at foundation walls and reinforced concrete or masonry walls.
- C. Provide 20 gage galvanized sheet metal sleeves for round ductwork passing through masonry or concrete construction. Rectangular ductwork shall be provided with framed openings through floor and wall construction.
- D. Install escutcheons at exposed piping through floors, ceilings, walls and partitions in finished areas, within cabinets and millwork, and piping through all fire-rated separations.

2.10 CONTROLS

E. Furnish and install programmable thermostats where indicated. Coordinate exact locations with Architect.

- F. If indicated on Drawings, provide thermostats by specified manufacturer.
- G. Thermostats shall comply with latest edition of California Energy Code for demand responsive capabilities and occupancy monitoring if required.
- H. Mount thermostats 48 inches above finished floor.
- I. Control wiring shall be installed per manufacturer's instructions and wiring diagrams. Wiring in walls and exposed spaces shall be in conduit and in accordance with Division 26. Wiring above ceiling shall be plenum rated cable complying with NFPA 70.

2.11 PAINTING

- A. See Division 09 for painting.
- B. Prime and paint diffuser boot and duct interiors where visible through grilles with a matte black finish.
- C. Prime and paint exposed ductwork, supports, and registers where required by the Architect.
- D. Prime and paint louver or grille interiors where required by the Architect.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions for compliance with requirements for installation clearances, tolerances and other conditions affecting performance of work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 EQUIPMENT INSTALLATION

- A. Equipment shall be installed level, on curbs or supports as required and/or indicated on Drawings and in accordance with manufacturer's instructions and recommendations.
- B. Equipment shall be installed in locations shown and as complete assemblies with adequate service clearances for access and maintenance as required by codes and equipment installation manuals.

3.3 DUCTWORK INSTALLATION

- A. All ductwork gauges, joints, bracing, reinforcing, and other details shall be in accordance with latest edition of SMACNA manuals unless otherwise specified.
- B. Duct dimensions are net, inside, clear dimensions. For internally lined ducts, add lining thickness to determine metal duct dimensions.
- C. Provide minimum 24-gauge sheet metal construction for ducts. Construct ducts with NFPA 90A gauges when traversing smoke zones.

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- D. Construct ducts of galvanized sheet metal, except where otherwise indicated or specified.
- E. Construct all ductwork to dimensions indicated, straight and smooth on the inside with neatly finished joints lapped in direction of travel.
- F. Fabricate changes in direction, both horizontal and vertical, to permit easy airflow.
- G. At exposed duct penetrations of walls, floors and ceilings, provide sheet metal angle type escutcheons fastened to the duct only.
- H. Duct Openings: Provide openings where required to accommodate thermometers, smoke detectors, controllers, wiring, conduit, tubing, etc. insert through air-tight rubber grommets.
- I. Provide pitot tube openings where required for testing of systems. Include threaded metal cap, spring loaded cap or threaded plug to eliminate any air leakage. Coordinate locations of openings with balancing contractor.
- J. Install ductwork to clear all obstructions, preserve headroom, and keep openings clear. Install exposed ducts as high as possible. Coordinate with other trades to maintain minimum 7'-6" clearance above finished floor, unless otherwise indicated.
- K. Install ducts unless otherwise indicated, vertically or horizontally and parallel and perpendicular to building lines; avoid diagonal runs.
- L. Coordinate layout with suspended ceiling, lighting layouts, and similar finished work.
- M. Install dampers in branch duct for all air inlets and outlets at accessible location. Dampers shall be capable of adjustments and of being locked into position.
- N. Use radius elbows in rectangular ductwork unless otherwise indicated. Centerline radius shall be a minimum 150 percent of duct width. Where space does not permit duct radius, install square elbow with turning vanes.
- O. Ends of ducts shall turn over 3/4" for airtight connections between ducts and grilles. The ducts and grilles shall have separate sets of screws. Register frames and ends of ducts shall be properly placed before finishing is begun.
- P. All ducts shall be supported per SMACNA HVAC Duct Construction Standards. Supports and seismic bracing shall be in accordance with OSHPD Preapproval of Manufacturer's Certification OPM-0043-13 and OPM-0052-13, and the California Building Code.
- Q. Ducts exposed to weather shall be completely waterproof with outdoor vapor barrier mastic over tape at all joints and seams. Slope entire top of duct down towards sides and coordinate duct slope with roof slope. Arrange standing seam, joints, and flanges to prevent accumulation, ponding or pooling of water.
- R. Seal joints and seams of ductwork airtight to SMACNA seal classifications.
- S. Protect all ductwork and interiors of ducts shall be clean and free from foreign materials until building is enclosed.

T. All ductwork and sealing shall comply with California Energy Code Section 120.4 requirements for Air Distribution System Ducts and Plenums.

3.4 FLEXIBLE DUCTWORK INSTALLATION

- A. Flexible ductwork shall be installed with no runs of more than 5'-0" in length and shall be used only at register connections.
- B. Flexible duct shall be installed in fully extended condition, free of sags and kinks, using only minimum length required to make connection. Bends greater than 90° are not allowed.
- C. Flexible duct shall be full size of branch. Any change in size to match terminal connection shall be made at terminal. Connect to duct collars, terminal unit connections and air inlets and outlets per manufacturer's instructions.
- D. All connections shall be sealed with high pressure duct sealer and secured with 3/8" nylon straps around inside liner of flexible duct.
- E. Flexible ducts shall be supported at or near mid-length with 2" wide, 28 gauge steel hanger collar attached to the structure with an approved duct hanger. Installation shall minimize sharp radius turns or offsets.

3.5 DUCT INSULATION AND LINING INSTALLATION

- A. Concealed ductwork shall be insulated with fiberglass ductwrap.
- B. Provide acoustic lining where indicated on Drawings.
- C. All supply and return ductwork shall be insulated, or acoustically lined on the inside when ductwork is exposed.
- D. Exhaust duct need not be insulated. Outside air duct indoors need not be insulated. Outside air duct installed outdoors shall be insulated.

3.6 DUCT ACCESSORIES INSTALLATION

- A. Flexible connections shall be installed on inlet and outlet duct connections of fans, air conditioning units, furnaces, and all other HVAC equipment. Fabric shall be of weight and strength for service required, properly fitted to render connection airtight. Fabric of sufficient width to provide minimum 4" between connected items.
- B. Install backdraft dampers on exhaust fans or exhaust ducts nearest to outside and where indicated. Install backdraft dampers at roof hoods or louvers connected to ductwork.
- C. Install duct access doors to allow for inspecting, adjusting, and maintaining accessories and terminal units. Access doors shall be large enough for maintenance.

3.7 REGISTERS, DIFFUSERS, AND GRILLES INSTALLATION

- A. Locations indicated on the Architectural Drawings shall take precedence. For lay-in ceiling panels, locate in the center of the panel. Where architectural features or other items conflict with installation, notify Architect for a determination of final location.
- B. Install with airtight connection to ducts and to allow service and maintenance of dampers, air extractors, and fire dampers.
- C. After installation of diffusers, registers, and grilles, inspect exposed finish. Clean exposed surfaces to remove burrs, dirt, and smudges. Replace diffusers, registers, and grilles that have damaged finishes.
- D. Install diffusers, registers, and grilles level and plumb, according to manufacturer's written instructions.
- E. All visible interior surfaces of registers, diffusers, and grilles shall be painted flat black.
- F. All visible exterior surfaces of registers, diffusers, and grilles shall be factory off-white finish as standard. Where required by Architect, provide in a color as selected by Architect or provide prime-painted for field painting.

3.8 REFRIGERANT PIPING INSTALLATION

- A. Refrigerant pipe installation shall comply with latest editions of ASHRAE 15 and ASME B31.5.
- B. Install piping in accordance with manufacturer's instructions and good practices.
- C. Install piping adjacent to unit to allow access to unit for service and maintenance.
- D. Where required, provide or install additional refrigerant charge per equipment manufacturer's requirements. After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
- E. Install piping as short and direct as possible, with a minimum number of joints and fittings.
- F. Route piping in orderly manner, parallel to building structure, and maintain gradient. Group piping whenever practical at common elevations and locations. Install piping to conserve space and avoid interference with use of space.
- G. Slope piping one percent in direction of oil return. Provide suction traps at base of suction risers where required.
- H. Piping shall be cut accurately to measurements established at job site and worked into place without springing or forcing, allowing for proper head room.
- I. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.
- J. Install sleeves for piping and tubing penetrations of walls, ceilings, and floors. Install escutcheons for piping and tubing penetrations of walls, ceilings, and floors.

- K. Install insulation without and gaps or cracks and use contact adhesive recommended by manufacturer at joints and connections.
- L. When the thickness of insulation is reduced, for example at support hangers, reinforce the reduced thickness with additional insulation.
- M. Seal longitudinal seams and end joints of insulation with manufacturer's recommended adhesive to eliminate openings in insulation. Installation to maintain a continuous vapor barrier.
- N. Where metal jackets are indicated for insulation, install with 2 inch overlap at longitudinal seams and end joints. Overlap longitudinal seams arranged to shed water. Seal end joints with weatherproof sealant recommended by insulation manufacturer. Secure jacket with stainless steel bands 12 inches on center at end joints.

3.9 HANGERS AND SUPPORTS INSTALLATION

- A. All equipment, plenums, registers, ductwork, and piping shall be securely anchored to building structure and seismically braced as required by the Drawings and Specifications. Comply with OSHPD Preapproval of Manufacturer's Certification OPM-0043-13 and OPM-0052-13, and the California Building Code.
- B. Comply with SMACNA HVAC Duct Construction Standards Metal and Flexible for hanger rod or sheet metal strap sizes and spacing for duct supports.
- C. Install hangers and supports complete with necessary inserts, bolts, rods, nuts, washers, and other accessories.
- D. Install lateral bracing with pipe hangers and supports to prevent swaying.
- E. Install hangers and supports so piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- F. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.
- G. Install hangers and supports to provide indicated pipe slopes.
- H. Adjust hangers to distribute loads equally on attachments.
- I. Trim excess length of continuous-thread hanger and support rods to 1 1/2 inches.
- J. Perform all welding in accordance with standards of the American Welding Society. Clean surfaces of loose scale, rust, paint or other foreign matter and properly align before welding. Use wire brush on welds after welding.

3.10 TESTING

A. Comply with more stringent of system manufacturer's requirements and requirement indicated herein.

- B. Provide the Architect with certified copies of the test results in written format. At a minimum include the date of the test, witnesses present, sections tested, length of tests, starting and final pressures.
- C. After completion of refrigerant piping installation, pressurize piping systems to a test pressure of not less than 600 psig using dry nitrogen.
- D. Successful testing shall maintain the test pressure for a continuous and uninterrupted period of 24 hours.
- E. After completion of pressure testing evacuate piping systems using a vacuum pump with a check valve. Maintain test pressure per manufacturer's requirements for a continuous and uninterrupted period of one (1) hour.
- F. Prepare and submit test reports to the Architect for project record.
- G. Charge the refrigerant piping system following system manufacturer's written instructions. Total refrigerant charge shall be recorded and permanently displayed at the system's outdoor unit.

3.11 ADJUSTING

- A. Adjust equipment and components to function smoothly, and lubricate as recommended by manufacturer.
- B. Adjust initial temperature setpoints. Adjust initial airflow settings and discharge airflow patterns.
- C. Set field adjustable switches and circuit breaker trip ranges according to manufacturer's written instructions.

3.12 FIELD QUALITY CONTROL

- A. Engage a factory authorized service representative to inspect field assembled components and equipment installation, including piping and electrical connections. Provide a written report of inspection to the Architect.
- B. Engage a factory authorized service representative to perform startup service. Complete installation and startup checks according to manufacturer's written instructions. Provide completed startup sheets for each piece of equipment to the Architect.

3.13 TRAINING AND O&MS

A. Refer to Section 23 00 00 Mechanical General Requirements and Division 01 for Training requirements, Operating and Maintenance Manuals, and other Closeout procedures.

END OF SECTION

SECTION 312316 - TRENCHING

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes excavating trenches for utilities from outside building to final connection point or public right-of-way or utility; compacted fill from top of utility bedding to subgrade elevations; and backfilling and compaction.
- B. Related Sections:
 - 1. Section 03 30 00 Cast-in-Place Concrete.

1.2 DEFINITIONS

A. Utility: Any buried pipe, duct, conduit, or cable.

1.3 FIELD MEASUREMENTS

A. Verify field measurements prior to fabrication.

1.4 COORDINATION

- A. Section 01 06 00 Regulatory Requirements.
- B. Verify Work associated with lower elevation utilities is complete before placing higher elevation utilities.
- C. Verify elevations of existing facilities prior to placing new Work.

PART 2 PRODUCTS

2.1 FILL MATERIALS

A. Fill and Structural Fill shall be: As specified in the project Soils Report and any supplements to the Soils Report.

2.2 ACCESSORIES

A. Filter Fabric: Non-biodegradable, woven as manufactured by TC Mirafi, Tenax Corp., Tensar Earth Technologies, Inc. or equal.

PART 3 EXECUTION

3.1 LINES AND GRADES

A. Grades

- 1. Pipes shall be laid true to the lines and grades indicated.
- 2. The grade alignment of the pipe shall be maintained by the use of a string line parallel with the grade line and vertically above the centerline of the pipe. This line shall be established on level batter boards at intervals of not more than 25 feet. Batter boards shall span the trench and be rigidly anchored to substantial posts driven into the ground on each side of the trench. Three adjacent batter boards must be set before laying pipe to provide a check on the grades and line. Elevation and position of the string line shall be determined from the elevation and position of offset points or stakes located along the pipe route. Pipe shall not be laid using side lines for line or grade.
- 3. As an alternative means of establishing alignment and grade, a "Laser-Beam" instrument may be utilized with a competent operator.

B. Location of Pipe Lines:

- 1. The location and approximate depths of the proposed pipe lines are shown on the Drawings.
- 2. An underground locate service shall be enlisted to discover the location of existing utilities regardless if they are shown on the drawings.
- 3. The Architect/Engineer reserves the right to make changes in lines, grades, and depths of pipe lines and manholes when such changes are necessary.

3.2 PREPARATION

- A. Identify required lines, levels, contours, and datum locations.
- B. Protect plant life, lawns, and other features remaining as a portion of final landscaping.
- C. Protect bench marks, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.
- D. Maintain and protect above and below grade utilities which are to remain.
- E. Cut out soft areas of subgrade not capable of compaction in place. Backfill and compact to density equal to or greater than requirements for subsequent backfill material.

3.3 EXCAVATING

A. Excavate subsoil required for utilities.

- B. Cut trenches sufficiently wide to enable installation and allow inspection. Remove water or materials that interfere with Work.
- C. Do not interfere with 45 degree bearing splay of foundations.
- D. Hand trim excavation. Hand trim for bell and spigot pipe joints. Remove loose matter.
- E. Remove lumped subsoil, boulders, and rock as directed by the Soils Engineer or other inspector.
- F. Correct over excavated areas with backfill and compact replacement as specified for authorized excavation.
- G. Stockpile excavated material on site. Remove excess material not being used from site.

3.4 TRENCHING

A. Excavations:

- 1. Excavation shall be dug so that the pipe can be laid and jointed properly. The trench shall be made so that the pipe can be laid to the alignment and depth as shown on the Drawings, and it shall be excavated only so far in advance of pipe laying as permitted by the Architect/Engineer. The excavation shall not be more than two feet wider at the bottom than the outside diameter of the pipe or structure. If there is no interference with construction, or adjacent property, and if soil permits, the Contractor at his own expense shall be permitted to slope the side walls of the excavation starting at a point two (2) feet above the top of pipe.
- 2. The trench shall be excavated to the depth required so as to provide a uniform and continuous bearing and support for the pipe on bedding material at every point between joints, except where pipe slings or other lifting tackle are withdrawn.

3. Excavation Below Grade:

- 1) Where excavation indicates that the subsurface materials at the bottom of the trench are in a loose or soft state, the Contractor shall be advised to excavate to a depth where suitable material is encountered, as directed by the Architect/Engineer.
- Where the bottom of the trench has been excavated by mistake to a greater depth than required, the Contractor shall refill this area using approved material. No additional compensation shall be given to the Contractor. Refilling with earth to bring the bottom of the trench to the proper grade will not be permitted.
- 4. Excavation within 24 inches of existing utilities shall be governed by specifications of the Owner of the respective utility. The Contractor shall obtain these specifications and follow the same at no extra cost.

- 5. Excavation and shoring shall adhere to the requirements and safety standards set by OSHA.
- B. Trenching in Advance of Pipe Laying: The trench for the pipe lines shall not be opened for a distance of more than 200 feet at any one time, unless authorized by the Architect/Engineer. At no time will the Contractor be permitted to leave more than 50 feet of trench open at the end of a working day. Adequate protection of open trench shall be provided by the Contractor and the Contractor shall be responsible therefore.

3.5 SHEETING AND BRACING

A. General:

- 1. Sheeting and bracing of all excavations shall conform to the latest statutes of the State of California governing safety of workers in the construction industry. When necessary, in the opinion of the Contractor, adequate sheeting and bracing shall be installed to prevent ground movement that may cause damage or settlement to adjacent structures, pipelines and utilities. Any damage due to settlement because of failure to use sheeting or because of inadequate bracing, or through negligence or fault of the Contractor in any other manner, shall be repaired at the Contractor's expense.
- 2. Sides of trenches in unsuitable, loose or soft material, five feet or more in depth, shall be shored, sheeted, braced, sloped, or otherwise supported by means of sufficient strength to protect employees working within them.

B. Sheeting Requirements:

- 3. Where excavations are made with vertical sides which require supporting, the sheeting and bracing shall be of sufficient strength to sustain the sides of the excavations and to prevent movement which could in any way injure the Work, or adjacent structures, or diminish the working space sufficiently to delay the Work. Special precautions shall be taken where there is additional pressure due to the presence of other structures.
- 4. It shall be the Contractor's responsibility to select sheeting and bracing of sufficient dimensions and strength and type to adequately support the sides of trenches and excavations.
- 5. Sheeting and bracing shall be removed before the completion of the Work.

3.6 BACKFILLING

- A. Backfill trenches to contours and elevations shown on the drawings.
- B. Systematically backfill to allow maximum time for natural settlement. Do not backfill over porous, wet, or spongy subgrade surfaces.
- C. Fill materials shall be as specified in the Soils Report and any supplements to the Soils Report.

- D. Employ a placement method that does not disturb or damage utilities in trench. Jetting of backfill materials to achieve compaction shall not be permitted.
- E. Maintain optimum moisture content of fill materials to attain required compaction density.
- F. Remove surplus fill materials from site.

3.7 **TOLERANCES**

- A. Section 01 40 00 - Quality Requirements.
- В. Top Surface of Backfilling Under Paved Areas: Plus or minus 0.05 feet from required elevations.
- C. Top Surface of General Backfilling: Plus or minus 1/10 feet from required elevations.

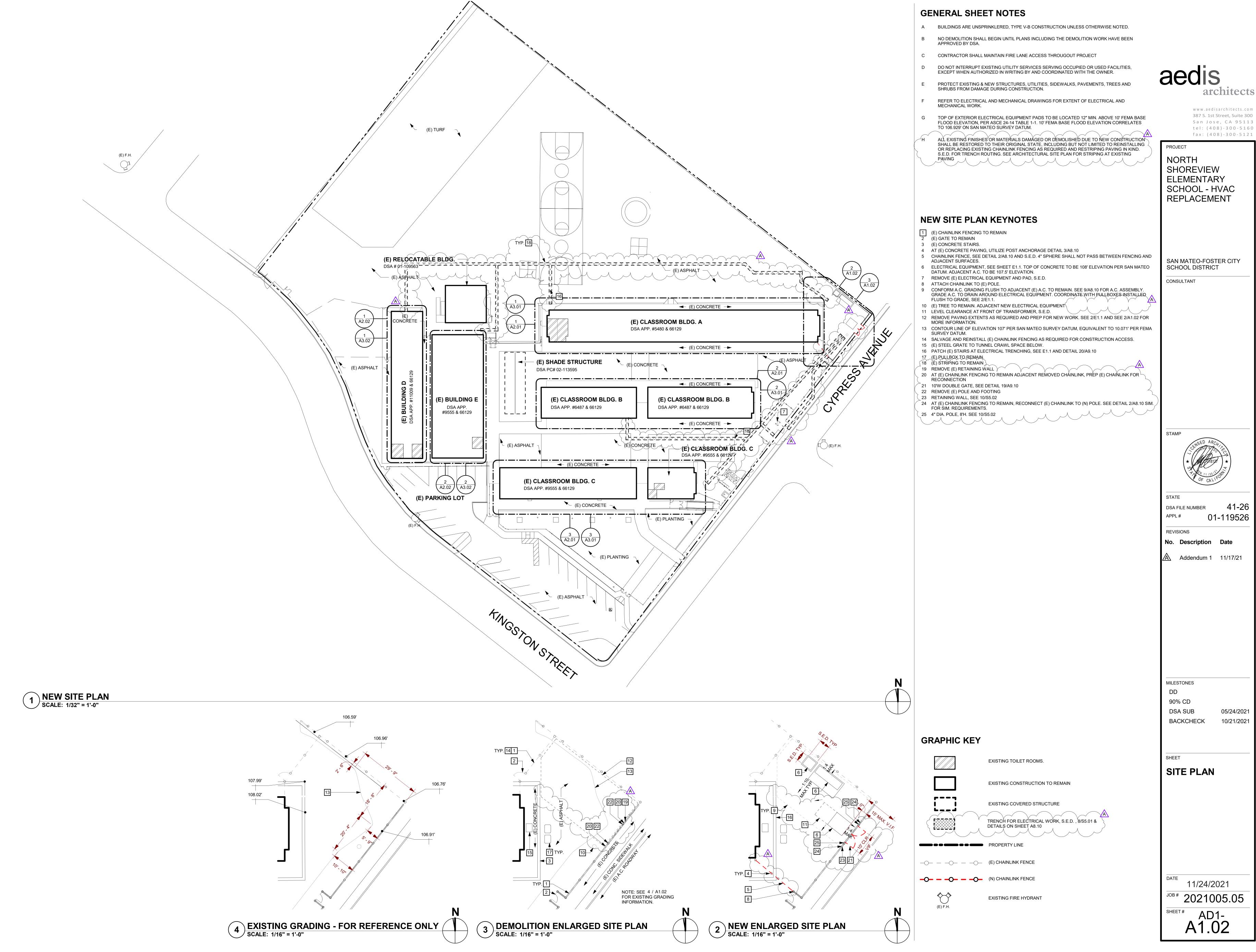
3.8 FIELD QUALITY CONTROL

- Compaction testing will be performed by the project Soils Engineer. A.
- If tests indicate Work does not meet specified requirements, remove Work, replace, В. compact, and retest.

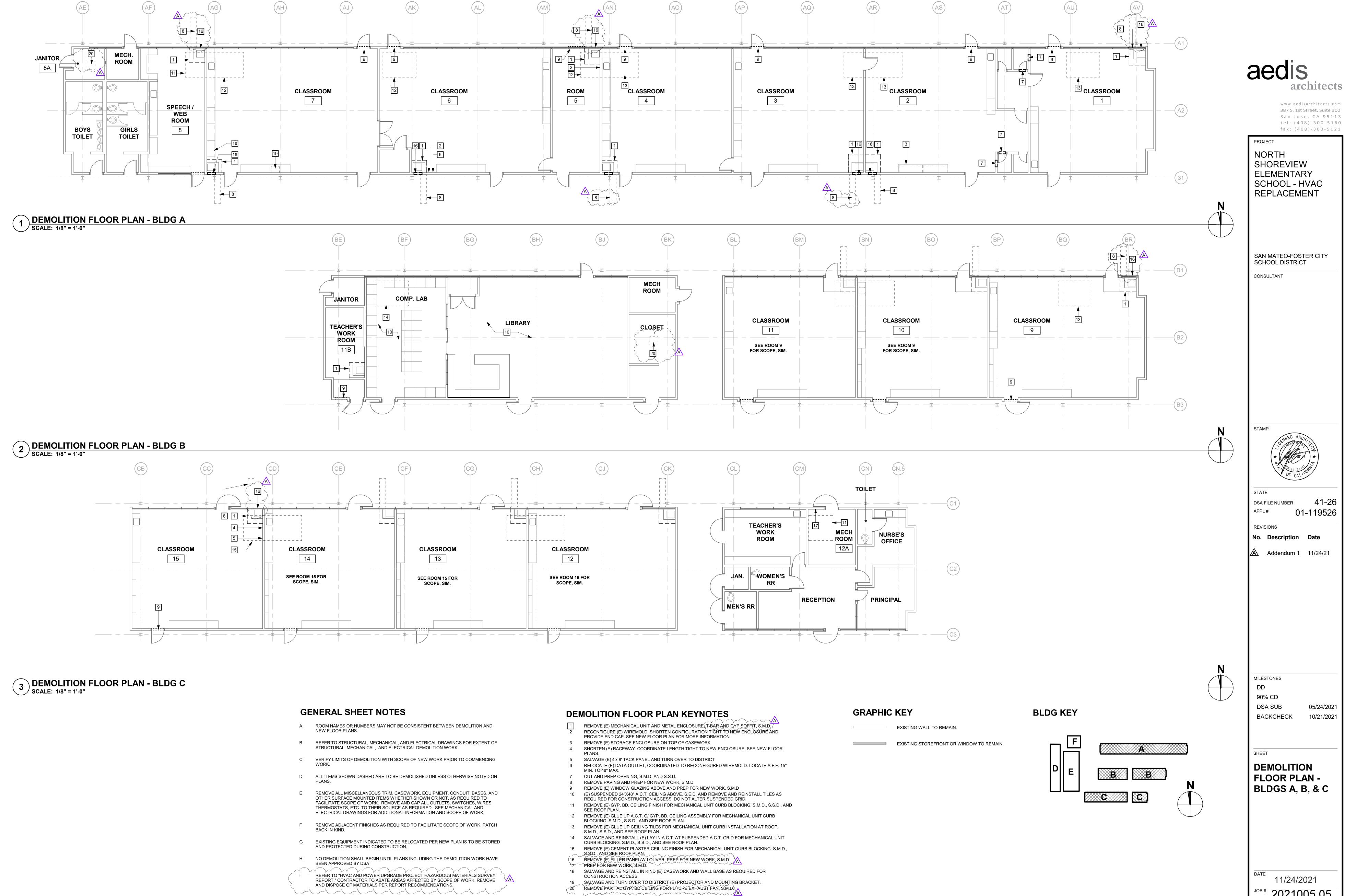
PROTECTION OF FINISHED WORK 3.9

- A. Section 01 70 00 - Execution and Closeout Requirements.
- B. Reshape and re-compact fills subjected to vehicular traffic during construction.

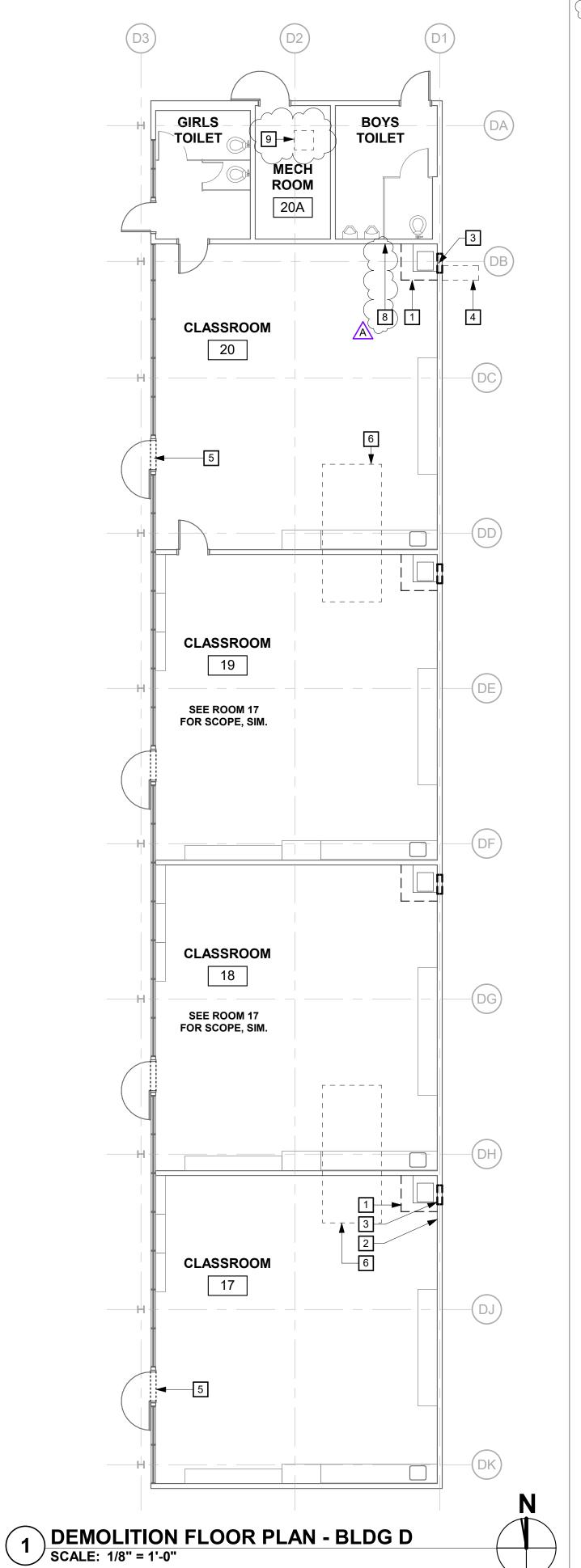
END OF SECTION



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2 DEMOLITION FLOOR PLAN - BLDG E
SCALE: 1/8" = 1'-0"



GENERAL SHEET NOTES

- A ROOM NAMES OR NUMBERS MAY NOT BE CONSISTENT BETWEEN DEMOLITION AND NEW FLOOR PLANS.
- B REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION WORK.
- C VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING
- D ALL ITEMS SHOWN DASHED ARE TO BE DEMOLISHED UNLESS OTHERWISE NOTED ON PLANS
- E REMOVE ALL MISCELLANEOUS TRIM, CASEWORK, EQUIPMENT, CONDUIT, BASES, AND OTHER SURFACE MOUNTED ITEMS WHETHER SHOWN OR NOT, AS REQUIRED TO FACILITATE SCOPE OF WORK. REMOVE AND CAP ALL OUTLETS, SWITCHES, WIRES, THERMOSTATS, ETC. TO THEIR SOURCE AS REQUIRED. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.
- F REMOVE ADJACENT FINISHES AS REQUIRED TO FACILITATE SCOPE OF WORK. PATCH BACK IN KIND.
- G EXISTING EQUIPMENT INDICATED TO BE RELOCATED PER NEW PLAN IS TO BE STORED AND PROTECTED DURING CONSTRUCTION.

H NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA

I REFER TO "HVAC AND POWER UPGRADE PROJECT HAZARDOUS MATERIALS SURVEY REPORT." CONTRACTOR TO ABATE AREAS AFFECTED BY SCOPE OF WORK. REMOVE

AND DISPOSE OF MATERIALS PER REPORT RECOMMENDATIONS.

DEMOLITION FLOOR PLAN KEYNOTES

- REMOVE (E) MECHANICAL UNIT AND METAL ENCLOSURE, T-BAR AND GYP SOFFIT, \$.M.D.
 RECONFIGURE (E) ADJACENT WIREMOLD
 REMOVE (E) FILLER PANEL/W LOUVER, PREP FOR NEW WORK, S.M.D.
- 4 REMOVE PAVING AND PREP FOR NEW WORK, S.M.D.
 5 REMOVE (E) WINDOW GLAZING ABOVE AND PREP FOR NEW WORK S.
- 5 REMOVE (E) WINDOW GLAZING ABOVE AND PREP FOR NEW WORK, S.M.D.
 6 REMOVE (E) GYP. BD. CEILING FINISH FOR MECHANICAL UNIT CURB BLOCKING. S.M.D., S.S.D., AND SEE ROOF PLAN.
- 7 PREP FOR NEW WORK, S.M.D.

 8 REMOVE (E) TV MOUNT
- 9 REMOVE PARTIAL GYP. BD CEILING FOR FUTURE EXHAUST FAN, S.M.D.

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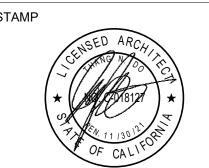
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NORTH
SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

CONSULTANT



STATE

DSA FILE NUMBER 41-26

APPL # 01-119526

REVISIONS

No. Description Date

Addendum 1 11/24/21

MILESTONES
DD
90% CD

DSA SUB BACKCHECK

05/24/2021

10/21/2021

SHEET

DEMOLITION FLOOR PLAN -BLDGS D & E

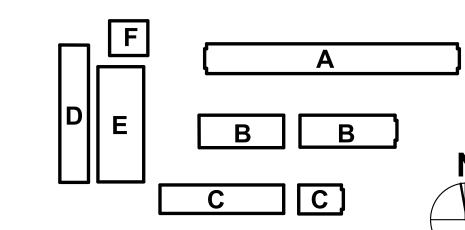
DATE 11/24/2021

308# 2021005.05 SHEET# AD1-A2.02

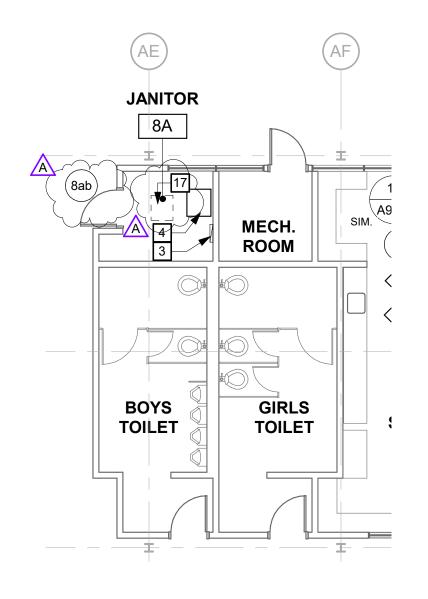
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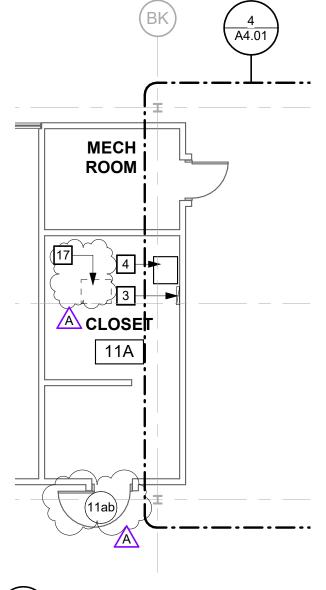
EXISTING WALL TO REMAIN.

BLDG KEY



EXISTING STOREFRONT OR WINDOW TO REMAIN.





NEW FLOOR PLAN KEYNOTES

- REFER TO 1/A4.01 FOR TYPICAL REFLECTED CEILING PLAN
- REFER TO 2/A4 01 FOR TYPICAL REFLECTED CEILING PLAN REMOVE AND REINSTALL (E) ACOUSTICAL CEILING TILES ABOVE AS REQUIRED FOR CONSTRUCTION ACCESS, Σ INCLUDING BUT NOT LIMITED TO ELECTRICAL ROUTING, MECHANICAL DUCTWORK $_{\sim}$ A ANCHORAGE, BLOCKING FOR ROOFTOP PLATFORMS. DO NOT ALTER SUSPENDED A.C.T. GRID.
- REFER TO 3/A4.01 FOR TYPICAL REFLECTED CEILING PLAN, REMOVE AND REINSTALL (E) ACOUSTICAL CEILING TILES ABOVE AS REQUIRED FOR CONSTRUCTION ACCESS, SINCLUDING BUT NOT LIMITED TO ELECTRICAL ROUTING, MECHANICAL DUCTWORK ANCHORAGE, BLOCKING FOR ROOFTOP PLATFORMS, DO NOT ALTER SUSPENDED
- 17 PATCH AND PAINT GYP. BD. CEILING ADJACENT EXHAUST FAN. S.M.D.

NEW FLOOR PLAN - BLDG A

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

NEW FLOOR PLAN - BLDG B SCALE: 1/8" = 1'-0"





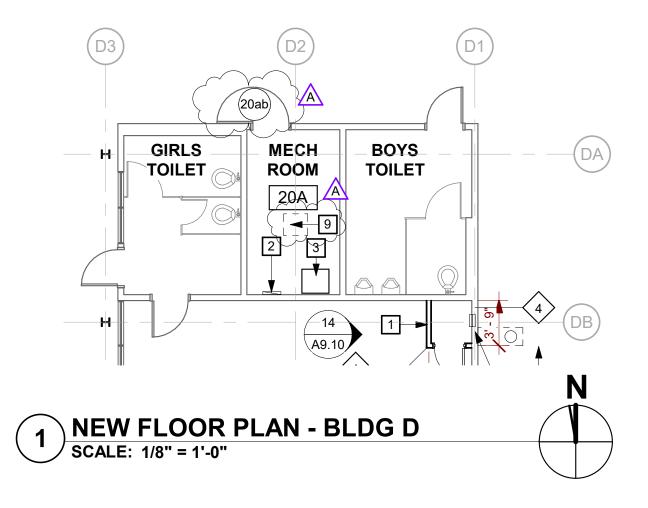
NORTH SHOREVIEW ELEMENTARY SCHOOL - HVAC REPLACEMENT SAN MATEO-FOSTER CITY SCHOOL DISTRICT

FILE NO.: 41-26

APPL NO.: 01-119526 JOB NO. 2021005.05

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AD1-A3.01



NEW FLOOR PLAN KEYNOTES

6 PATCH PAVING AT DRY WELL. SEE 6/A8.10 AND S.M.D.

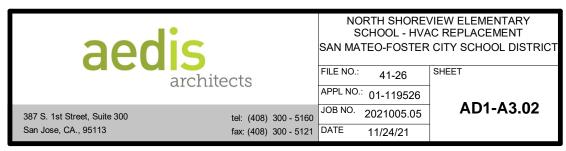
REFER TO 3/A4.01 FOR TYPICAL REFLECTED CEILING PLAN REMOVE AND REINSTALL (E) ACOUSTICAL CEILING TILES ABOVE AS REQUIRED FOR CONSTRUCTION ACCESS INCLUDING BUT NOT LIMITED TO ELECTRICAL ROUTING, MECHANICAL DUCTWORK ANCHORAGE, BLOCKING FOR ROOFTOP PLATFORMS. DO NOT ALTER SUSPENDED A.C.T. GRID.

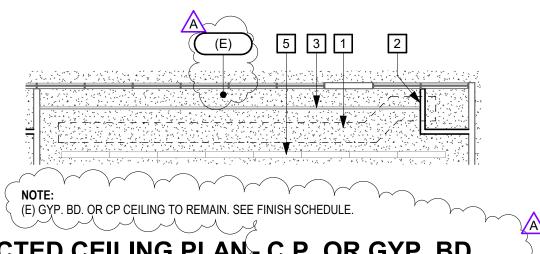
8 REPLACE GLUE UP CEILING TILE ASSEMBLY REMOVED FOR CONSTRUCTION ACCESS. SCRIBE LAYOUT TIGHT TO STRUCTURE. PAINT CEILING TILES AND STRUCTURE TO MATCH ADJACENT.

Y PATCH AND PAINT GYP. BD. CEILING ADJACENT EXHAUST FAN. S.M.D.



9





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N

TYP. REFLECTED CEILING PLAN- C.P. OR GYP. BD.

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





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NORTH SHOREVIEW ELEMENTARY SCHOOL - HVAC REPLACEMENT

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

SHEET

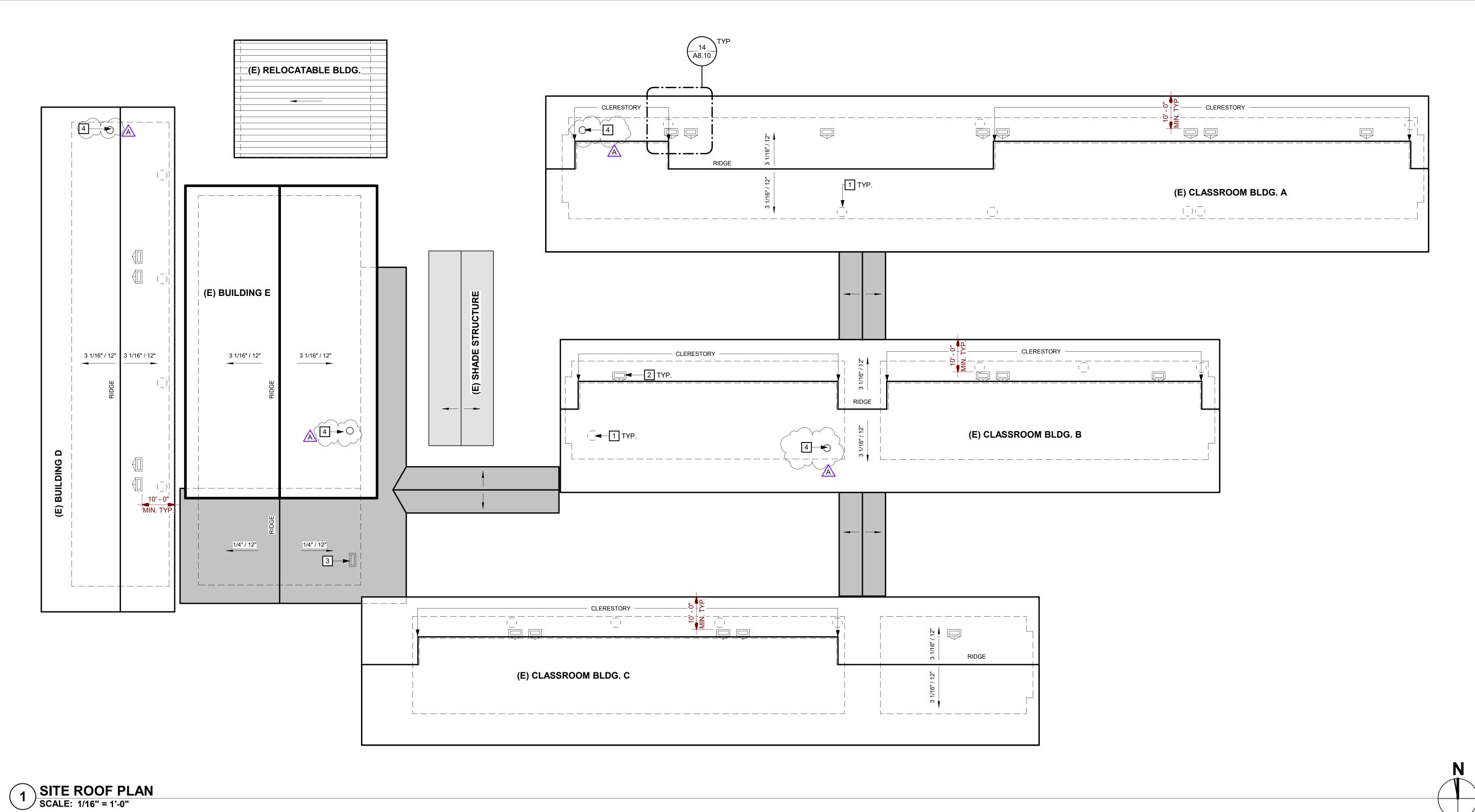
FILE NO.: 41-26

APPL NO.: 01-119526

JOB NO. 2021005.05

DATE 11/24/2021

AD1-A4.01



GENERAL SHEET NOTES

ROOF PLAN KEYNOTES

- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL AND ELECTRICAL WORK.
- B SIZE OF MECHANICAL EQUIPMENT PADS ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY REQUIRED PAD DIMENSION WITH EQUIPMENT MANUFACTURER.

PATCH (E) PENETRATION AT REMOVED FLUE AND COMBUSTION AIR INTAKE AND PATCH (N) PENETRATIONS. S.M.D. AND SEE DETAIL 17/A8.10

2 MECHANICAL UNIT ON PLATFORM WITH CRICKET, S.M.D. AND SEE DETAIL 10/A8.10. REMOVE (E) A
ROOFING TO SUBSTRATE FOR CONSTRUCTION ACCESS.)

3 MECHANICAL UNIT ON PLATFORM, S.M.D. AND SEE DETAIL 19/A8.10. REMOVE (E) ROOFING TO A
SUBSTRATE FOR CONSTRUCTION ACCESS.

EXHAUST FAN SEE 10/A8.10 SIM. S.M.D. REMOVE (É) ROOFING TO SUBSTRATE AND PREP OPENING AS REQUIRED FOR NEW WORK.

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PROJECT SHOREVIEW ELEMENTARY SCHOOL - HVAC REPLACEMENT

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

CONSULTANT

41-26 DSA FILE NUMBER 01-119526 REVISIONS

No. Description Date

Addendum 1 11/24/21

MILESTONES

90% CD

DSA SUB

BACKCHECK

SITE ROOF PLAN

11/24/2021

JOB# 2021005.05

AD1-A5.01

05/24/2021

10/21/2021

DD

GRAPHIC KEY

(E) ASPHALT SHINGLE, CLASS C MINIMUM

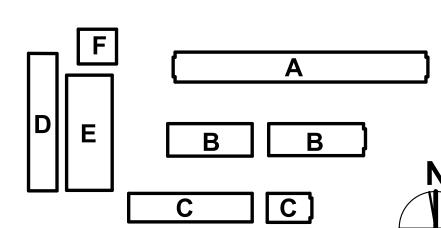
(E) PVC SINGLE PLY ROOFING, CLASS C MINIMUM

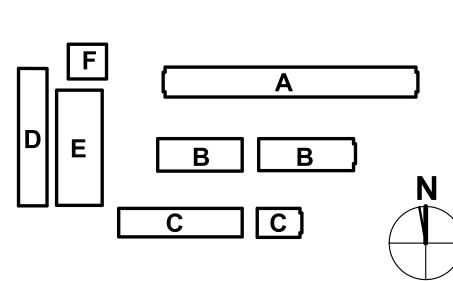
(E) STANDING SEAM, CLASS C MINIMUM

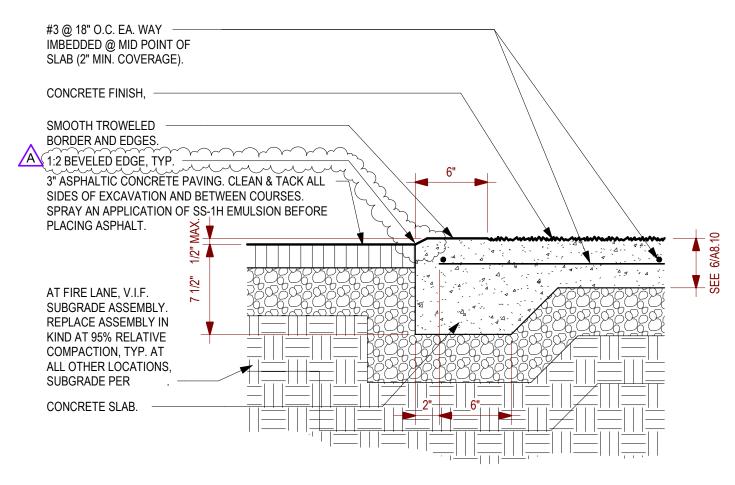
(E) METAL ROOFING

OUTLINE OF WALL BELOW

BLDG KEY

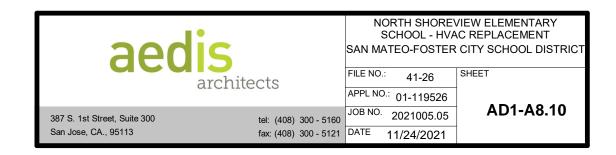


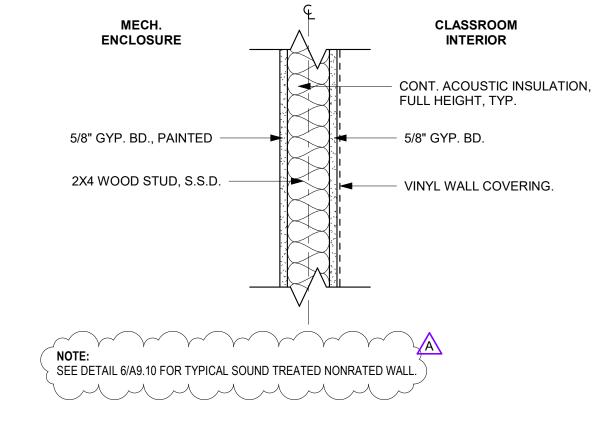




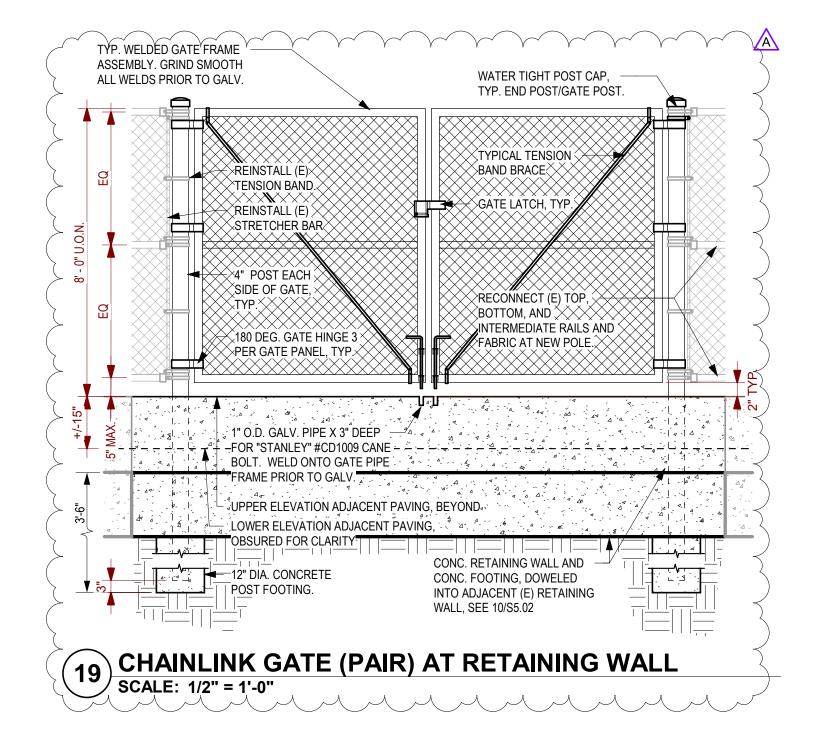
ASPHALT/CONCRETE JOINT

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



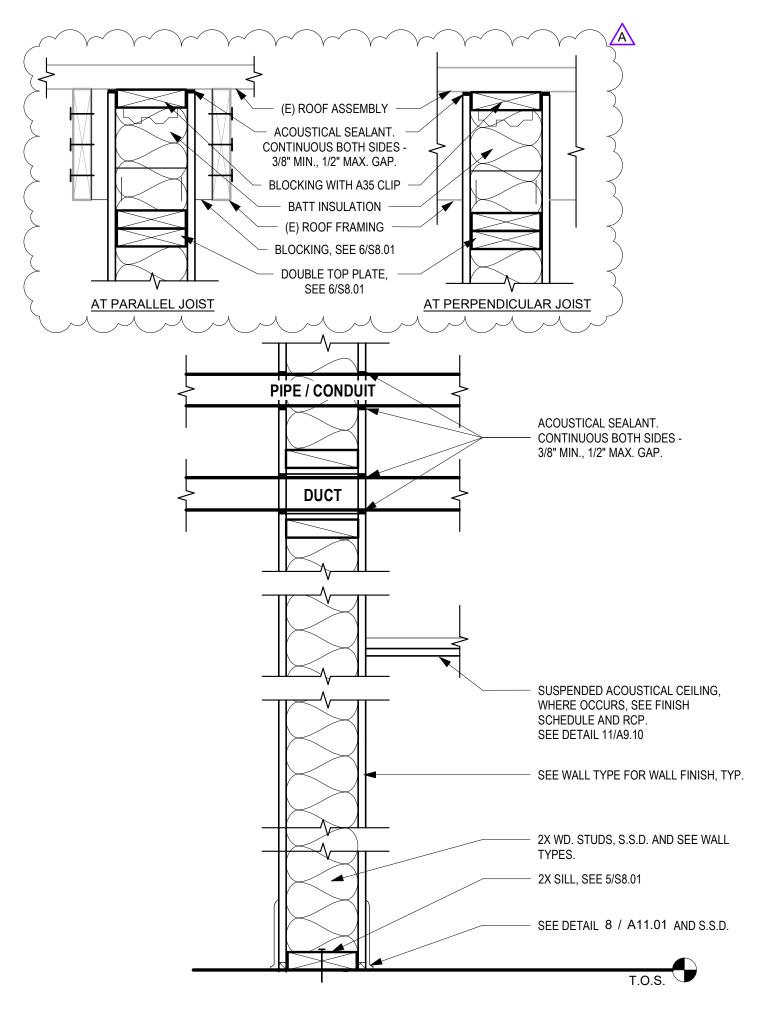










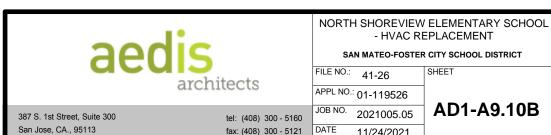


NOTES:

FOR RECESSED ACCESSORIES OR CABINETS, PROVIDE BLOCKING, GYPSUM BOARD AND ACOUSTICAL SEALANT SIMILAR TO DETAIL AT DUCT.

TYPICAL SOUND TREATED NONRATED WALL SCALE: 1 1/2" = 1'-0"



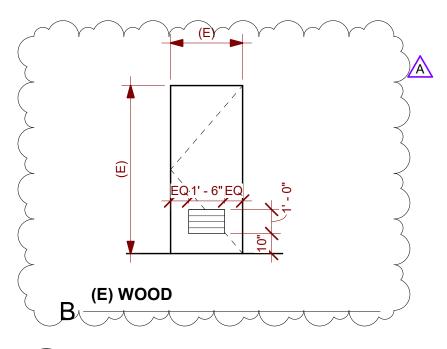


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AD1-A9.10B

11/24/2021

DOOR SCHEDULE												
DOOR ID	OPENING SIZE		DOOR		FRAME		DETAILS (Sheet A10.02 U.O.N.)			HARDWARE		
	WIDTH	HEIGHT	TYPE	FINISH	TYPE	FINISH	HEAD	JAMB-1	JAMB-2	SILL	GROUP	COMMENTS
1a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
2a	2' - 6"	7' - 0"	А	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
3a	2' - 6"	7' - 0"	А	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
4a	2' - 6"	7' - 0"	А	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
5a	2' - 6"	7' - 0"	А	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
6a	2' - 6"	7' - 0"	А	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
7a	2' - 6"	7' - 0"	А	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
8a	2' - 6"	7'-0"	A A	P-2	£1	P-3	11/A11.01	11/A11_01	11/A11.01	4/A11.01	01	
8ab	3' - 0"	7' - 0"	B	- ·		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	<u>-</u>	· · ·	-	 		1
9a	2' - 6"	7-0	WAW.	P.2	Fi	P-3····	11/A11.01	11/A11.01	17/A11.01	4/A11.01	mon we	
10a	2' - 6"	7' - 0"	А	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
11a	2' - 6"	7'-0"	A	P-2	F1	P-3	11/A11.01	11/A11_01	11/A11.01	4/A11.01	01	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
} 11ab	3' - 0"	7' - 0"	' B " '	-		1 ' - ' '		- '	-	-	-	1
12a	2' - 6"	7-0	W A W	P12····	Fru	P-3·C·	11/A11.01	14/A11.01	11/A111.01	4/A11.01		
13a	2' - 6"	7' - 0"	А	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
14a	2' - 6"	7' - 0"	А	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
15a	2' - 6"	7' - 0"	А	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
17a	2' - 6"	7' - 0"	А	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
18a	2' - 6"	7' - 0"	А	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
19a	2' - 6"	7' - 0"	Α	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
20a	2' - 6"	7',-θ"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11.01	4/A11.01	01	
20ab	3'-0"	7' - 0"	B \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-		-	- Y	- · · · ·	-	-		1





DOOR SCHEDULE COMMENTS

PROVIDE NEW LOUVER AT EXISTING DOOR. CUT AND PREP AS REQUIRED. PAINT LOUVER TO MATCH DOOR.





NORTH SHOREVIEW ELEMENTARY SCHOOL - HVAC REPLACEMENT SAN MATEO-FOSTER CITY SCHOOL DISTRICT

FILE NO.: 41-26

APPL NO.: 01-119526

AD1-A11.01A

387 S. 1st Street, Suite 300 San Jose, CA., 95113

fax: (408) 300 - 5121 DATE 11/24/2021

tel: (408) 300 - 5160 JOB NO. 2021005.05

FINISH SCHEDULE									
	ROOM	FLOOR							
NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS			

		I		_\O1-0		
15	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	CP-1, GB-2	
17	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	GB-2 A	
18	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	GB-2	
19	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	GB-2	
20	CLASSROOM	(E) CPT-1	B-1	VWC-1, GB-1, ACT-3	GB-2	
20A	MECH ROOM	(E) CONC-1	B-1	VWC-1, CP-1	GB-2	





NORTH SHOREVIEW ELEMENTARY SCHOOL - HVAC REPLACEMENT

SHEET

SAN MATEO FOSTER CITY SCHOOL DISTRICT

FILE NO.: 41-26 APPL NO.: 01-119526 JOB NO. 2021005.05

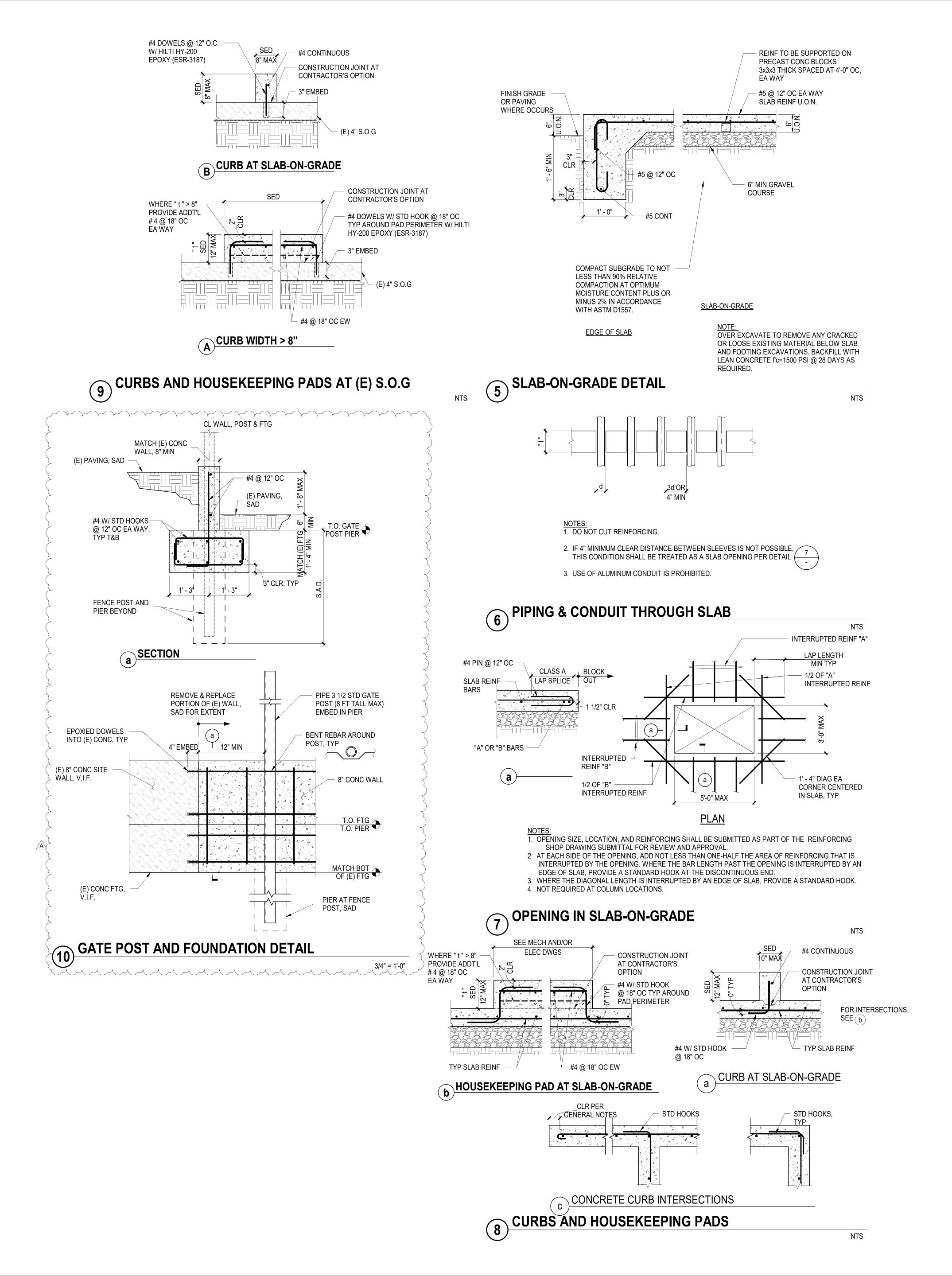
11/24/2021

AD1-A11.01B

387 S. 1st Street, Suite 300 San Jose, CA., 95113

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fax: (408) 300 - 5121





www.aedisarchitects.com 387 S. 1st Street, Suite 300 San Jose, CA 95113 tel: (408)-300-5160 fax: (408)-300-5121

NORTH SHOREVIEW ELEMENTARY SCHOOL - HVAC REPLACEMENT

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

BASE

DESIGN
582 MARKET ST. STE. 1402
SAN FRANCISCO, CA 94104
Office:(415) 466-2997
www.BASEdesigninc.com

STAMP

PROFESSIONA

RED HAN AKAY

O NO. 5594

DSA FILE NUMBER 41-26
APPL# 01-119526

REVISIONS

No. Description Date

A Addendum 1 11/19/2021

MILESTONES
DD
90% CD

DSA SUB 05/24/2021 BACKCHECK

SHEET

TYPICAL CONCRETE DETAILS

11/24/2021 JOB# 2021005.05

AD1-S5.02

		AIR DISTRI	BUTION SCHE	DULE		
TAG	MANUFACTURER	MODEL NO.	DESCRIPTION	BORDER TYPE	MOUNTING DETAIL	NOTES
HSS-1	TITUS	S300FL	HIGH SIDEWALL SUPPLY	TYPE 1	12/MP6.01	1, 2, 4
LSR-1	TITUS	350RL	LOW SIDEWALL RETURN	TYPE 1	13/MP6.01	2, 3
RG-1	TITUS	30RL	RELIEF GRILLE	TYPE 1	10/MP6.01	2, 5

- 1. SET BLADES AT 22.5° DEFLECTION.
- 2. PRIME AND PAINT PER ARCHITECT'S INSTRUCTIONS. REGISTER COLOR SELECTED BY ARCHITECT.
- 3. PROVIDE WITH AIRSAN COMPACT DUCT SILENCER. 4. PROVIDE WITH ASD AIR SCOOP DEVICE.
- 5. CONTRACTOR TO FIELD VERIFY (E) DIMENSIONS PRIOR TO ORDERING.

				ROOF EX	(HAUST F	ANS SO	CHEDULE					
TAG	MANUFACTURER	MODEL NO.	AREA SERVED	AIRFLOW	ESP	FAN	SOUND POWER	мото	R	WEIGHT	MOUNTING	NOTES
IAG	MANUFACTURER	MODEL NO.	AREA SERVED	CFM	IN. W.G.	RPM	SONES	HP / WATTS	V / PH	LBS	DETAIL	NOTES
REF-A-1	GREENHECK	G-070-VG	JANITOR 8A	250	0.25	1479	4.1	1/15	115 / 1	45	15/MP6.01	1, 2
REF-B-1	GREENHECK	G-098-VG	CLOSET 11A	450	0.25	1125	6.0	1/4	115 / 1	45	15/MP6.01	1, 2
REF-E-1	GREENHECK	G-070-VG	TABLE STORAGE	250	0.25	1479	4.1	1/15	115 / 1	45	15/MP6.01	1, 2
REF-D-1	GREENHECK	G-098-VG	MECH ROOM 20A	450	0.25	1125	6.0	1/4	115 / 1	45	15/MP6.01	1, 2

PROVIDE WITH UL LISTING, FAN MOUNTED SPEED CONTROL, BACKDRAFT DAMPER, BIRDSCREEN, AND ROOF CURB.

2. PROVIDE WITH LINE VOLTAGE TSTAT.

SAMSUNG SAMSUNG	MODEL AM054TNZDCH/AA	LOCATION BLDG A	COOLING TOTAL MBH	HEATING TOTAL MBH	AIRFLOW CFM	OUTSIDE AIR CFM	REFRIGERA LIQUID	ANT PIPING GAS	SEER	HSPF	E V/PH	LECTRICA	MOCP	WEIGHT LBS	MOUNTING DETAIL	NOTES
		RI DG A									r \				1	· · · · ·
SAMSUNG		CLASSROOM 1			1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01 (2, 3, 4, 6, 7
1	AM053TXMDCH/AA <	ROOF	53	61	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01 (1
SAMSUNG	AM054TNZDCH/AA <	BLDG A CLASSROOM 2	>		1150	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1/MP6.01 (2, 3, 4, 6, 7
SAMSUNG	AM053TXMDCH/AA <	ROOF (53	61	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01 (1
SAMSUNG	AM054TNZDCH/AA <	BLDG A CLASSROOM 3 (>		1150	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 6, 7
SAMSUNG	AM053TXMDCH/AA	ROOF (53	61	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01 (1
SAMSUNG	AM054TNZDCH/AA <	BLDG A CLASSROOM 4	>		1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 6, 7
SAMSUNG	AM053TXMDCH/AA	ROOF	53	61	Â.	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01 (1
SAMSUNG	AC024KNZDCH/AA	BLDG A CLASSROOM 5			760	150	1/4"	5/8"	-	-		NOTE 8	A	100	1/MP6.01	2, 3, 4, 6, 7, 8
SAMSUNG	AC024JXADCH/AA	ROOF	- 24	27	-	-	1/4"	5/8"	19.5	11.5	208 / 1	13.6	20	145	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA	BLDG A CLASSROOM 6			1360	450	3/8"	3/4" (-		208/1	2.6	15	164	1/MP6.01	2, 3, 4, 6, 7
SAMSUNG	AM053TXMDCH/AA	ROOF (53	61)A.	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01) 1
SAMSUNG	AM054TNZDCH/AA	BLDG A CLASSROOM 7 (>		1360	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 6, 7
SAMSUNG	AM053TXMDCH/AA	ROOF (53	61) -	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AC024KNZDCH/AA	BLDG A CLASSROOM 8			760	150	1/4"	5/8"	-	-		NOTE 8	A	100	1/MP6.01	2, 3, 4, 6, 7, 8
SAMSUNG	AC024JXADCH/AA	ROOF	- 24	27	-	-	1/4"	5/8"	19.5	11.5	208 / 1	13.58	20	145	3/MP6.01	1
SAMSUNG	AC024KNZDCH/AA	BLDG B ROOM 8a			760	150	1/4"	5/8"	-	-		NOTE 8		100	1/MP6.01	2, 3, 4, 5, 6, 7, 8
SAMSUNG	AC024JXADCH/AA	ROOF	- 24	27	-	-	1/4"	5/8"	19.5	11.5	208 / 1	13.58	20	145	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA	BLDG B			1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 6, 7
SAMSUNG	AM053TXMDCH/AA) ROOF (53	61	_	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA	BLDG B			1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 6, 7, 8
SAMSUNG	AM053TXMDCH/AA	ROOF (53	61	-	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01 (1
SAMSUNG	AM054TNZDCH/AA	BLDG B	>		1150	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 6, 7
SAMSUNG	AM053TXMDCH/AA	ROOF	53	61	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA	BLDG C (>		1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01 (2, 3, 4, 6, 7
SAMSUNG	AM053TXMDCH/AA	ROOF	53	61	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01 (1
SAMSUNG	AM054TNZDCH/AA	BLDG C	>		1150	450	3/8"	3/4" (-	-	208/1	2.6	15))) 164	1/MP6.01	2, 3, 4, 6, 7
SAMSUNG	AM053TXMDCH/AA	ROOF	53	61	_	_	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01 (1
SAMSUNG	AM054TNZDCH/AA	BLDG C	>		1150	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1/MP6.01 (2, 3, 4, 6, 7
SAMSUNG	AM053TXMDCH/AA	ROOF	53	61	_	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01 (1
SAMSUNG	AM054TNZDCH/AA	BLDG C			1150	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 6, 7
SAMSUNG	AM053TXMDCH/AA	ROOF (53	61	-	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01 (1
SAMSUNG	AM054TNZDCH/AA	BLDG D	>		1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6, 7
SAMSUNG	AM053TXMDCH/AA	ROOF	53	61	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3/MP6.01	1
SAMSUNG	AM054TNZDCH/AA	BLDG D			1150	450	3/8"	3/4" (-	-	208/1	2.6	15	164	1/MP6.01	2, 3, 4, 5, 6, 7
SAMSUNG	AM053TXMDCH/AA	CLASSROOM 18(53	61) _	-	3/8"	3/4" (17.5	10	208 / 1	34	50	212	3/MP6.01 (1
SAMSUNG	AM054TNZDCH/AA	BLDG D	>		1150	450	3/8"				208/1	2.6	15	164		2, 3, 4, 5, 6, 7
		(53	61) -	-				10						1
SAMSUNG	AM053TXMDCH/AA AM054TNZDCH/AA	BLDG D	>		1150	450	3/8"	3/4" (11.0	- 10	208/1	2.6	15	164	1/MP6.01 (2, 3, 4, 5, 6, 7
	SAMSUNG	SAMSUNG AM053TXMDCH/AA SAMSUNG AM053TXMDCH/AA SAMSUNG AC024KNZDCH/AA SAMSUNG AC024JXADCH/AA SAMSUNG AM053TXMDCH/AA SAMSUNG AM053TXMDCH/AA SAMSUNG AM053TXMDCH/AA SAMSUNG AC024KNZDCH/AA SAMSUNG AC024KNZDCH/AA SAMSUNG AC024KNZDCH/AA SAMSUNG AC024JXADCH/AA SAMSUNG AC024JXADCH/AA SAMSUNG AC024JXADCH/AA SAMSUNG AC024JXADCH/AA SAMSUNG AC024JXADCH/AA SAMSUNG AM053TXMDCH/AA	SAMSUNG AM053TXMDCH/AA CLASSROOM 3 SAMSUNG AM053TXMDCH/AA ROOF SAMSUNG AM053TXMDCH/AA BLDG A CLASSROOM 4 SAMSUNG AM053TXMDCH/AA ROOF SAMSUNG AC024KNZDCH/AA ROOF SAMSUNG AC024KNZDCH/AA ROOF SAMSUNG AC024JXADCH/AA ROOF SAMSUNG AC024JXADCH/AA ROOF SAMSUNG AM053TXMDCH/AA ROOF SAMSUNG AM053TXMDCH/AA <td>SAMSUNG AM053TXMDCH/AA CLASSROOM 3 53 SAMSUNG AM053TXMDCH/AA ROOF 53 SAMSUNG AM053TXMDCH/AA ROOF 53 SAMSUNG AM053TXMDCH/AA ROOF 53 SAMSUNG AM053TXMDCH/AA ROOF 24 SAMSUNG AM053TXMDCH/AA ROOF 53 SAMSUNG AM053TXMDCH/AA ROOF 53 SAMSUNG AM053TXMDCH/AA ROOF 53 SAMSUNG AM053TXMDCH/AA ROOF 53 SAMSUNG AC024NXDCH/AA ROOF 53 SAMSUNG AC024NXDCH/AA ROOF 24 SAMSUNG AC024NXDCH/AA ROOF 24 SAMSUNG AC053TXMDCH/AA ROOF 53 SAMSUNG AM054TNZDCH/AA ROOF 53 SAMSUNG AM053TXMDCH/AA ROOF 53 SAMSUNG AM054TNZDCH/AA ROOF 53 SAMSUNG AM054TNZDCH/AA ROOF 53 SAMSUNG</td> <td>SAMSUNG AM055TXMDCHIAA ROOF SAMSUNG AM055TXDCHIAA ROOF SAMSUNG AM055TXDCHIAA CLASSROOM 4 53 61 SAMSUNG AM055TXDCHIAA CLASSROOM 4 53 61 SAMSUNG AM055TXDCHIAA CLASSROOM 5 24 27 SAMSUNG AC024WXDCHIAA ROOF SAMSUNG AM055TXDCHIAA ROOF SAMSUNG AC024WXDCHIAA ROOF SAMSUNG AM055TXDCHIAA ROOF SAMSUNG AM055TXDCCHIAA ROOF SAMSUNG AM055TXDCHIAA ROOF SAMSUNG AM055TXDCHIAA ROOF SAMSUNG AM055TXDCCHIAA ROOF SAMSUNG AM055TXD</td> <td>SAMSUNG AMOSTRADCHIAA ROOF 53 61 1150 SAMSUNG AMOSTRADCHIAA ROOF 53 61 7.66 SAMSUNG ACCILIAGOCHIAA ROOF 53 61 7.66 SAMSUNG ACCILIAGOCHIAA ROOF 7.66 SAMSUNG AMOSTRADCHIAA ROOF 7.66 SAM</td> <td>SAMSUNG AMOST XADDOHAA ROOF 53 61 150 450 53 5451 150 5450 5451 150 5450 5451 150 5450 54</td> <td>SAMSUNG ANDSTRUCCHAA CLASSINCOLIS S</td> <td>SAMSUNG AMSSTRANCOHAA CLASSSCOM 3 S C1 1100 431 39 342 SAMSUNG AMSSTRANCOHAA CLASSSCOM 4 S C1 1150 459 397 342 SAMSUNG AMSSTRANCOHAA CLASSSCOM 4 S C1 1150 459 397 342 SAMSUNG AMSSTRANCOHAA CLASSSCOM 4 S C1 1150 459 397 342 SAMSUNG AMSSTRANCOHAA CLASSSCOM 4 S C1 1150 459 397 342 SAMSUNG AMSSTRANCOHAA CLASSSCOM 5 S C1 1200 140 140 399 344 SAMSUNG AMSSTRANCOHAA CLASSSCOM 5 S C1 1200 140 140 399 344 SAMSUNG AMSSTRANCOHAA CLASSSCOM 5 S C1 1200 140 399 344 SAMSUNG AMSSTRANCOHAA CLASSSCOM 5 S C1 1200 140 140 399 344 SAMSUNG AMSSTRANCOHAA CLASSSCOM 5 S C1 1200 140 140 399 344 SAMSUNG AMSSTRANCOHAA CLASSSCOM 5 S C1 1200 140 140 399 344 SAMSUNG AMSSTRANCOHAA CLASSSCOM 5 S C1 1200 140 140 399 344 SAMSUNG AMSSTRANCOHAA CLASSSCOM 6 S C1 1200 140 140 399 344 SAMSUNG AMSSTRANCOHAA CLASSSCOM 6 S C1 120 140 140 399 344 SAMSUNG AMSSTRANCOHAA CLASSSCOM 6 S C1 120 140 140 399 344 SAMSUNG AMSSTRANCOHAA CLASSSCOM 6 S C1 120 140 140 399 344 SAMSUNG AMSSTRANCOHAA CLASSSCOM 6 S C1 120 140 140 399 344 SAMSUNG 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S. S. S. S. S. S. S	March Marc	March Marc	March Marc

CLASSROOM SPLIT SYSTEM HEAT PUMPS SCHEDULE

HP-20 SAMSUNG AM053TXMDCH/AA

 SPLIT SYSTEM SHALL BE ABLE TO OPERATE AT 94% HEATING CAPACITY DOWN TO 32°F OUTDOOR
 AMBIENT TEMPERATURE.
 CFM BASED ON 0.55 ESP.
 PROVIDE WITH CONDENSATE PUMP.
 FAN COIL SHALL BE ADJUSTED TO OPERATE AT CONSTANT SPEED AT INDICATED CFM.
 PROVIDE WITH SAMSUNG MIM-A60UN 24VAC THERMOSTAT ADAPTER AND 24VAC TRANSFORMER.
 INDOOR UNIT POWERED BY OUTDOOR UNIT. 4. PROVIDE WITH DELTA CONTROLS THERMOSTAT WITH CO2 SENSOR. SEE MP5.01 FOR CONTROLS.

					SPL	IT SYSTEM	S SCHED	ULE								
TAG	MANUFACTURER	MODEL	WING / BUILDING	LOCATION	COOLING TOTAL MBH	HEATING TOTAL MBH	AIRFLOW CFM	REFRIGERA LIQUID	ANT PIPING GAS	SEER	E V/PH	LECTRICA MCA	MOCP	WEIGHT LBS	MOUNTING DETAIL	NOTES
SSO-14	SAMSUNG	AR24TSFYBWKXCV	DI DO O	ROOF	00	NOTE 6	_	1/4"	5/8"	18	208 / 1	20	30	125	2/MP6.01	
SSI-14	SAMSUNG	AR24TSFYBWKNCV	BLDG C	MECH ROOM 14	22	NOTE 6	657	1/4"	5/8"	_	NOTE 1			30	3/MP6.01	2, 3, 4, 5
SSO-29	SAMSUNG	AR24TSFYBWKXCV	BLDG E	ROOF	22	24	_	1/4"	5/8"	18	208 / 1	20	30	125	2/MP6.01	
SSI-29	SAMSUNG	AR24TSFYBWKNCV	DLUG E	OFFICE 29B	22	24	657	1/4"	5/8"	_		NOTE 1		30	3/MP6.01	2, 3, 4, 5

INDOOR UNITS ARE POWERED BY OUTDOOR UNIT.
 PROVIDE WITH WALL MOUNTING BRACKET.
 PROVIDE WITH SAMSUNG WALL MOUNTED THERMOSTAT.

PROVIDE WITH BACNET INTERFACE CARD. SEE MP5.01 FOR CONTROLS.
 PROVIDE WITH CONDENSATE PUMP.
 LOCK OUT HEATING.

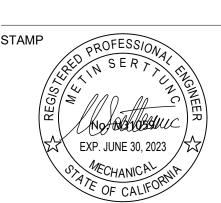
www.aedisarchitects.com 387 S. 1st Street, Suite 300 San Jose, CA 95113 tel: (408)-300-5160 fax: (408)-300-5121

PROJECT

NORTH SHOREVIEW ELEMENTARY SCHOOL - HVAC REPLACEMENT

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

CONSULTANT



DSA FILE NUMBER 01-119526

REVISIONS

No. Description Date Addendum 1 11/24/2021

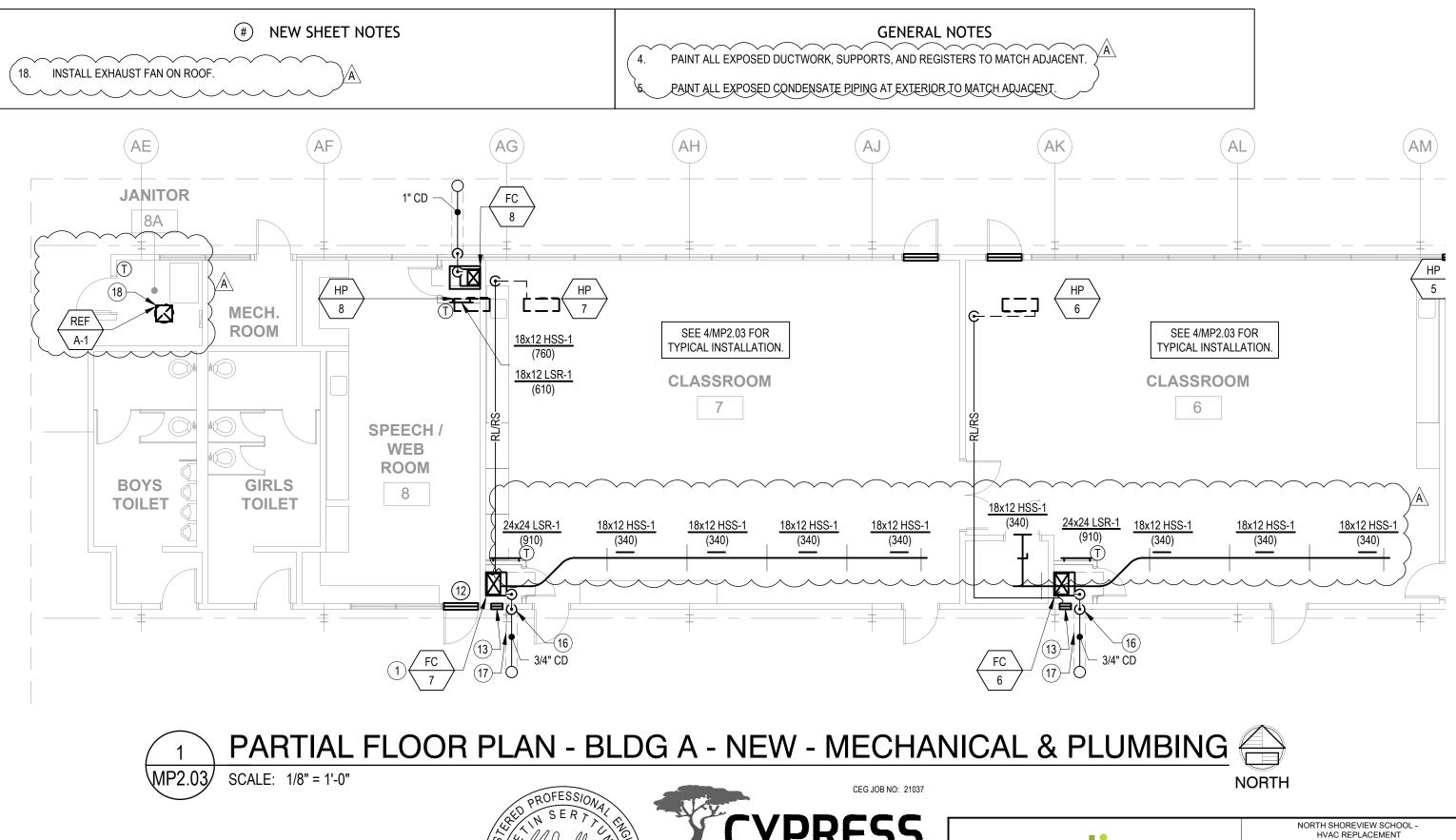
MILESTONES

DD 90% CD DSA SUB 05/24/2021 BACKCHECK 10/14/2021

SHEET

SCHEDULES-MECHANICAL

11/24/2021



No. M31059

831.218.1802

8 Harris Court, Suite A8

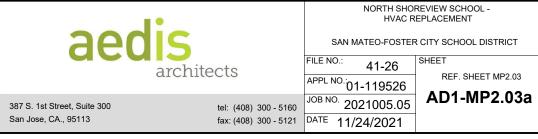
Monterey, CA 93940 cypresseg.com

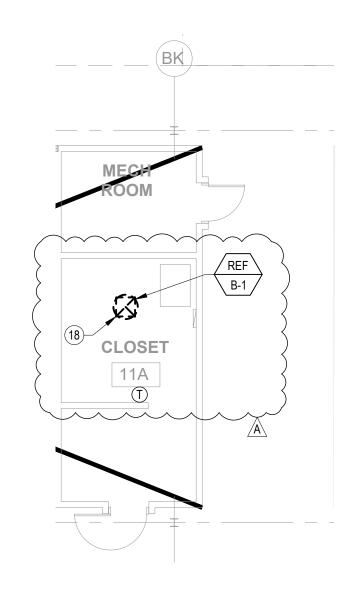
Engineering Group

HVAC, Plumbing, Fire Protection Building Commissioning Industrial Refrigeration

Environmental Compliance

Training & Technical Support







PARTIAL FLOOR PLAN - BLDG B - NEW - MECHANICAL & PLUMBING



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



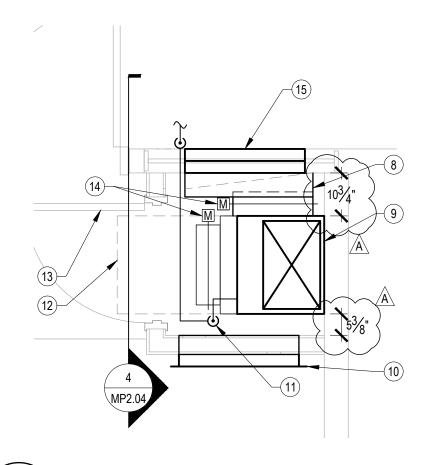


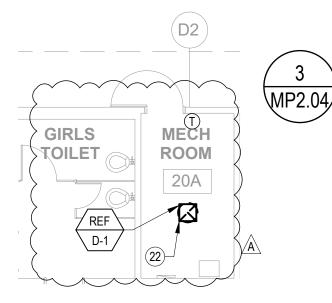
SAN MATEO-FOSTER CITY SCHOOL DISTRICT 41-26

387 S. 1st Street, Suite 300 San Jose, CA., 95113

REF. SHEET MP2.03 APPL NO.: 01-119526 AD1-MP2.03b JOB NO. 2021005.05 fax: (408) 300 - 5121 DATE 11/24/2021

NORTH SHOREVIEW SCHOOL -HVAC REPLACEMENT





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

FLOOR PLAN - ENCLOSURE 3

SCALE: NONE

GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
- COORDINATE THE LOCATIONS OF ROOF/ WALL OPENINGS, PENETRATIONS, DUCTWORK AND ALL MECHANICAL EQUIPMENT WITH RESPECT TO BUILDING STRUCTURE AND OTHER BUILDING SERVICES TO AVOID CONFLICT.
- FOR CLARITY, ABANDONED CD PIPING AND (E) GAS MAINS ARE NOT SHOWN ON THIS PLAN. SEE MP2.01.
- PAINT ALL EXPOSED DUCTWORK, SUPPORTS, AND REGISTERS TO MATCH ADJACENT
- PAINT CONDENSATE PIPING AT EXTERIOR OF BUILDING TO MATCH ADJACENT
- SEE DETAIL 7/MP6.01 FOR PIPE SUPPORT ON ROOF.
- CONTRACTOR TO PROVIDE AND INSTALL THERMOSTAT WIRING AND ASSOCIATED CONDUITS FOR ALL NEW HVAC **EQUIPMENT AND CONNECTIONS.**
- EQUIPMENT MOUNTING DETAIL REFERENCE SHOWN ON SCHEDULES ON SHEET MP0.2.

NEW SHEET NOTES

22. INSTALL EXHAUST FAN ON ROOF



FLOOR PLAN - BLDG D - NEW - MECHANICAL & PLUMBING







Training & Technical Support



SAN MATEO-FOSTER CITY SCHOOL DISTRICT

NORTH SHOREVIEW SCHOOL -HVAC REPLACEMENT

41-26 REF. SHEET MP2.04

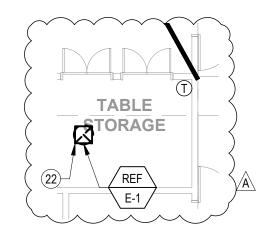
APPL NO.:01-119526

AD1-MP2.04a

HVAC, Plumbing, Fire Protection **Building Commissioning** Industrial Refrigeration Environmental Compliance

387 S. 1st Street, Suite 300 San Jose, CA., 95113

JOB NO. 2021005.05 fax: (408) 300 - 5121 DATE 11/24/2021



MP2.04

FLOOR PLAN - BLDG E - NEW - MECHANICAL & PLUMBING

NORTH

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





SAN MATEO-FOSTER CITY SCHOOL DISTRICT

NORTH SHOREVIEW SCHOOL -HVAC REPLACEMENT

41-26 APPL NO.:01-119526 JOB NO. 2021005.05

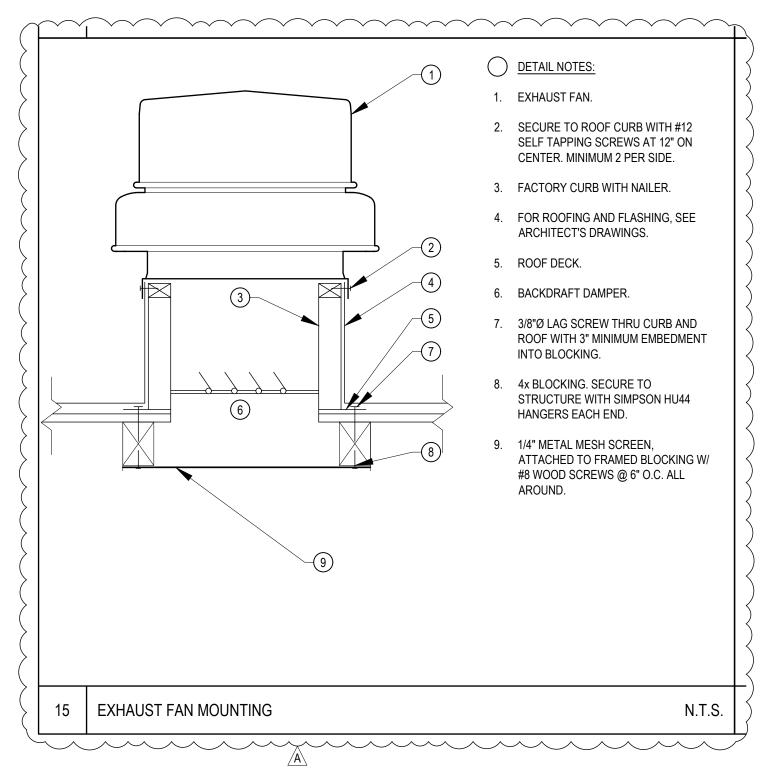
fax: (408) 300 - 5121 DATE 11/24/2021

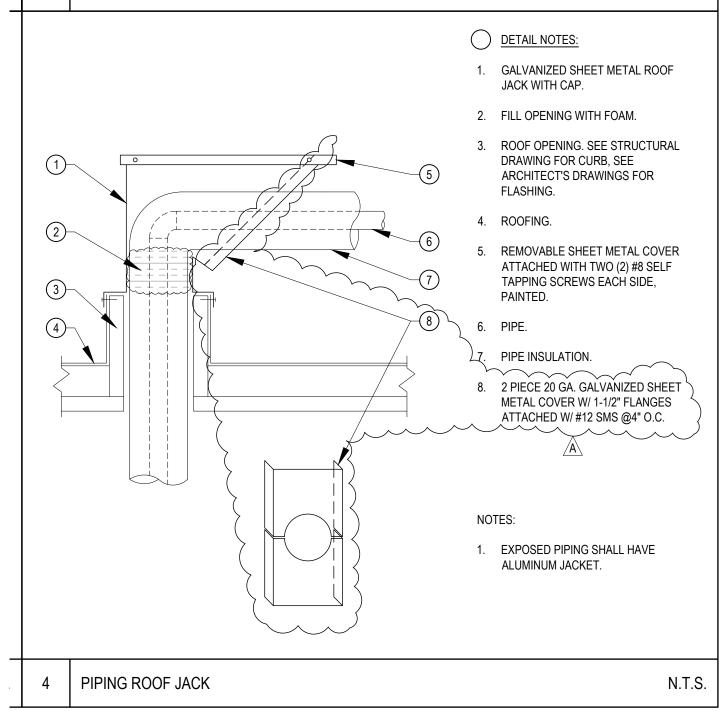
tel: (408) 300 - 5160

REF. SHEET MP2.04 AD1-MP2.04b

Training & Technical Support

387 S. 1st Street, Suite 300 San Jose, CA., 95113









831.218.1802 8 Harris Court, Suite A8 Monterey, CA 93940 cypresseg.com HVAC, Plumbing, Fire Protection Building Commissioning Industrial Refrigeration Environmental Compliance Training & Technical Support



SAN MATEO-FOSTER CITY SCHOOL DISTRICT 41-26 REF. SHEET MP6.01

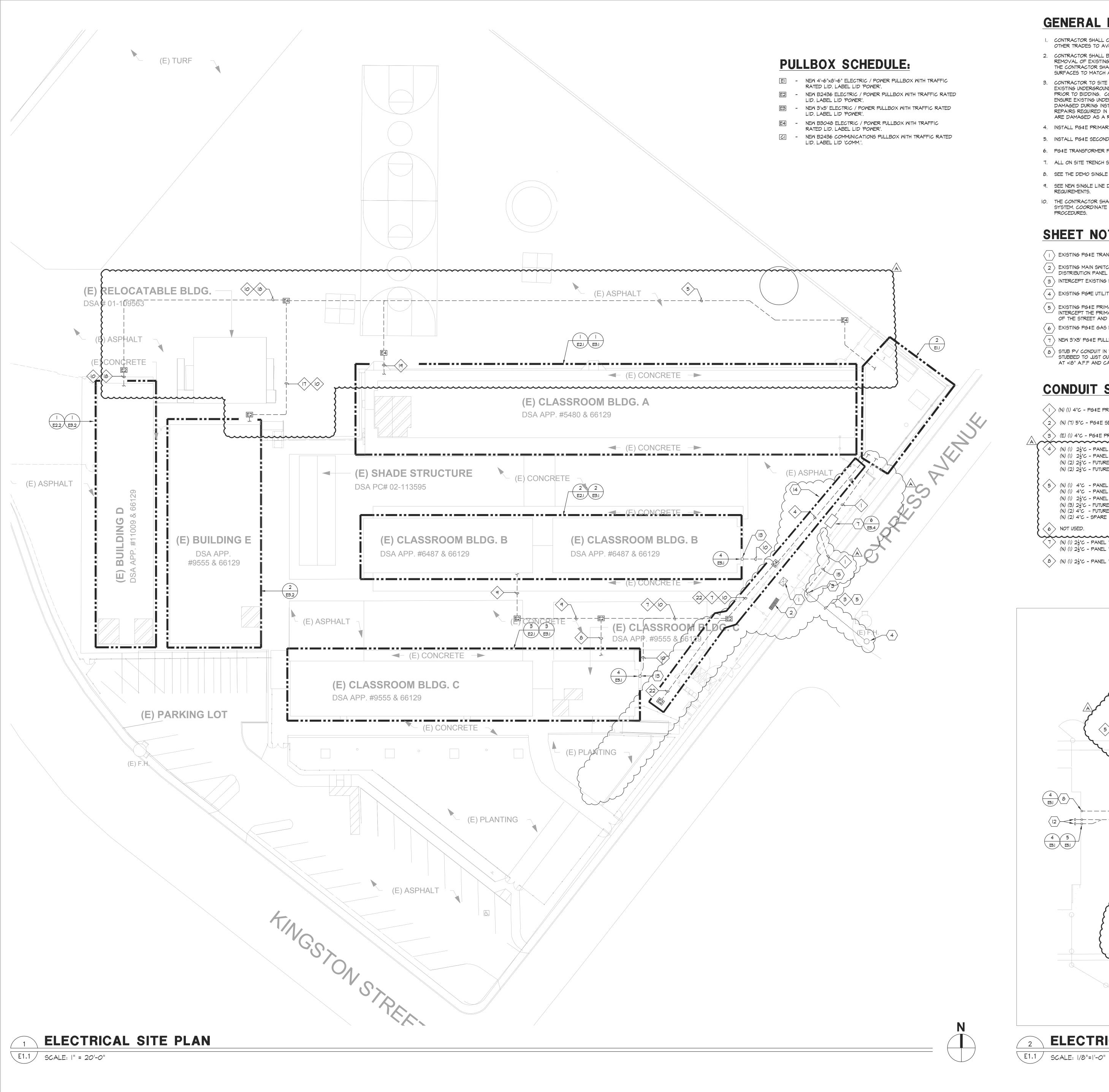
NORTH SHOREVIEW SCHOOL -HVAC REPLACEMENT

APPL NO.:01-119526 JOB NO. 2021005.05

AD1-MP6.01

387 S. 1st Street, Suite 300 San Jose, CA., 95113

tel: (408) 300 - 5160 fax: (408) 300 - 5121 DATE 11/24/2021



GENERAL NOTES:

- I. CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SAW CUTTING AND REMOVAL OF EXISTING SURFACES TO FACILITATE UNDERGROUND SYSTEMS. THE CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED AND CUT SURFACES TO MATCH ADJACENT.
- 3. CONTRACTOR TO SITE SURVEY EXISTING CONDITIONS AND LOCATIONS OF EXISTING UNDERGROUND SYSTEMS, WHERE NEW TRENCH WORK OCCURS PRIOR TO BIDDING. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO ENSURE EXISTING UNDERGROUND SYSTEMS/CONDUIT/PIPES ARE NOT DAMAGED DURING INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS REQUIRED IN THE EVENT THE EXISTING UNDERGROUND SYSTEMS ARE DAMAGED AS A RESULT OF THE NEW ELECTRICAL TRENCH WORK.
- 4. INSTALL PG&E PRIMARY TRENCH PER I/ E5.I.
- 5. INSTALL PG&E SECONDARY TRENCH PER 3/ E5.1.
- 6. PG&E TRANSFORMER PAD SHALL BE PER 2/ E5.1.
- 7. ALL ON SITE TRENCH SHALL BE INSTALLED PER 3/ E5.4.
- 8. SEE THE DEMO SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- 9. SEE NEW SINGLE LINE DIAGRAM FOR FEEDER CABLE AND CONDUIT REQUIREMENTS.
- IO. THE CONTRACTOR SHALL MANDREL THROUGH THE ENTIRE PG&E CONDUIT SYSTEM. COORDINATE WITH PG&E FOR ADDITIONAL REQUIREMENTS AND

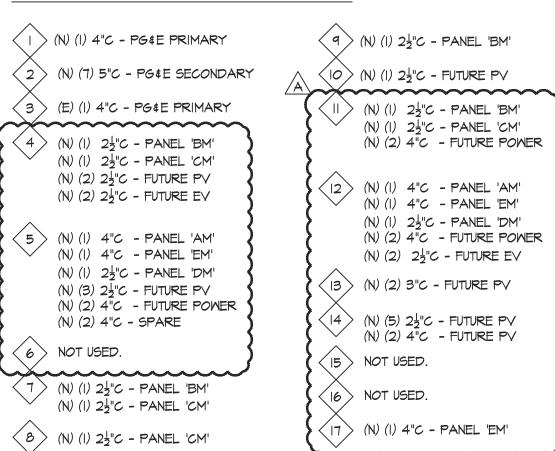
SHEET NOTES:

- $\langle \ | \ \rangle$ Existing PG&E transformer to be removed.
- \langle 2 \rangle EXISTING MAIN SWITCHBOARD TO BE CONVERTED TO DISTRIBUTION PANEL 'DPI'.
- \langle 3 angle intercept existing PG&E primary conduit
- 4 EXISTING PG#E UTILITY POLE WITH RISER.
- (5) EXISTING PG&E PRIMARY STREET CROSSING TO REMAIN. INTERCEPT THE PRIMARY CONDUIT ON THE SCHOOL SIDE
- OF THE STREET AND EXTEND AS SHOWN. (6) EXISTING PG&E GAS METER LOCATION.
- NEW 3'X5' PG E PULLBOX.

4 5 E5.I E5.I

- (8) STUB PY CONDUIT IN THIS LOCATION. CONDUIT TO BE STUBBED TO JUST OUTSIDE CONCRETE SIDEWALK. STUB UP AT +18" A.F.F AND CAP.
- (9) FUTURE PV DISCONNECT SWITCH.
- (10) FUTURE PV DISTRIBUTION PANEL.
- NEW 225KVA TRANSFORMER "TDPI".
- (12) STUB CONDUIT HIGH ON THE WALL INSIDE THE ROOM AT CEILING LEVEL. VERIFY LOCATION WITH EXISTING ROOM
- CONDITION AND LAYOUT. (13) STUB PY CONDUIT IN THIS LOCATION. CONDUIT TO BE
- STUBBED UP AT BUILDING'S WALL. STUB UP AT +18" A.F.F AND CAP.
- \langle $_{
 m I4}$ angle contractor shall directional bore the UNDERGROUND CONDUIT ROUTED IN THIS AREA.
- (15) CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE
- CITY PERMITS, APPROVALS, PROVIDING TRAFFIC CONTROL AND THE NECESSARY REPAIRS TO THE STREET AND SIDEWALKS PER THE CITY STANDARDS.

CONDUIT SCHEDULE:



- $\langle 18 \rangle$ (N) (I) $2\frac{1}{2}$ "C PANEL 'DM' (19) (N) (1) 4"C - PANEL 'AM'
- (20) (N) (I) I"C PG & E COMMUNICATIONS
- (21) (N) (1) 2"C FUTURE PV COMMUNICATIONS

(N) (2) $2\frac{1}{2}$ "C - FUTURE EV

- 8'-0" CLEARANCE MINIMUM

(N) PG&E XFRM (2) E5.I

1590 The Alameda, Suite 200 San Jose, CA 95126 JOB # EK21030.00

STATE

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PROJECT

NORTH

SHOREVIEW

ELEMENTARY

SCHOOL - HVAC

SAN MATEO-FOSTER CITY

SCHOOL DISTRICT

CONSULTANT

REPLACEMENT

41-26 DSA FILE NUMBER 01-119526

REVISIONS

No. Description Date

ADDENDUM 1 11/24/2021

MILESTONES

05/24/2021

10/13/2021

DD 90% CD

BACKCHECK

DSA SUB

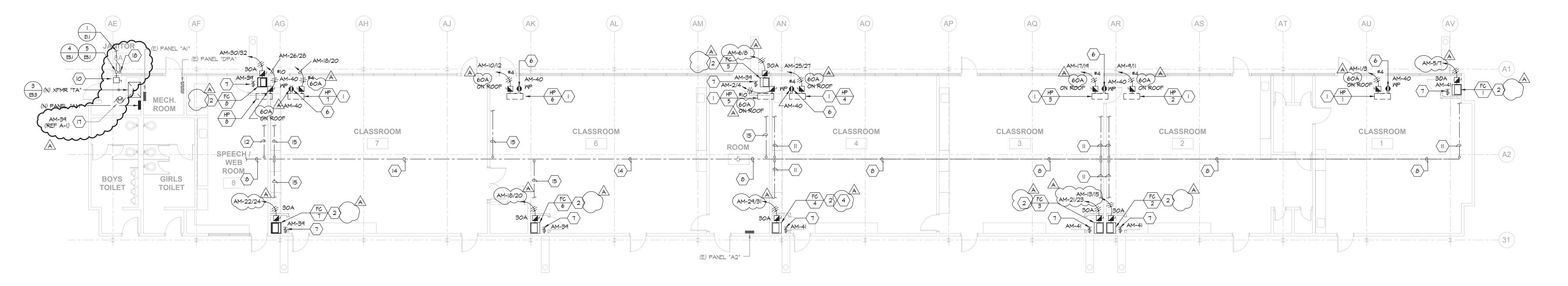
SHEET **ELECTRICAL**

SITE PLAN

11/24/2021 JOB # 2021005.05

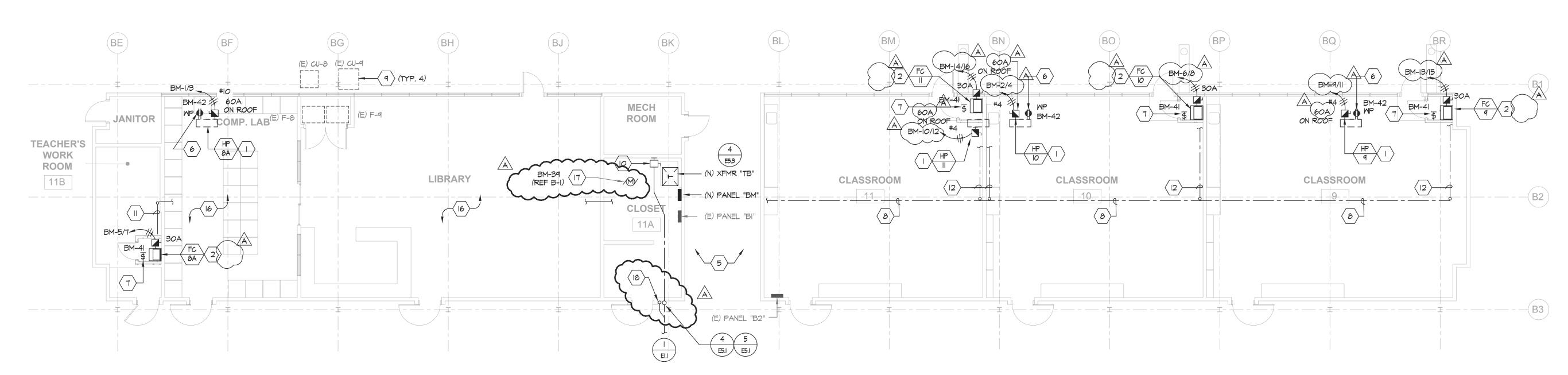
E1.1

ELECTRICAL SWITCHGEAR DIMENSIONS



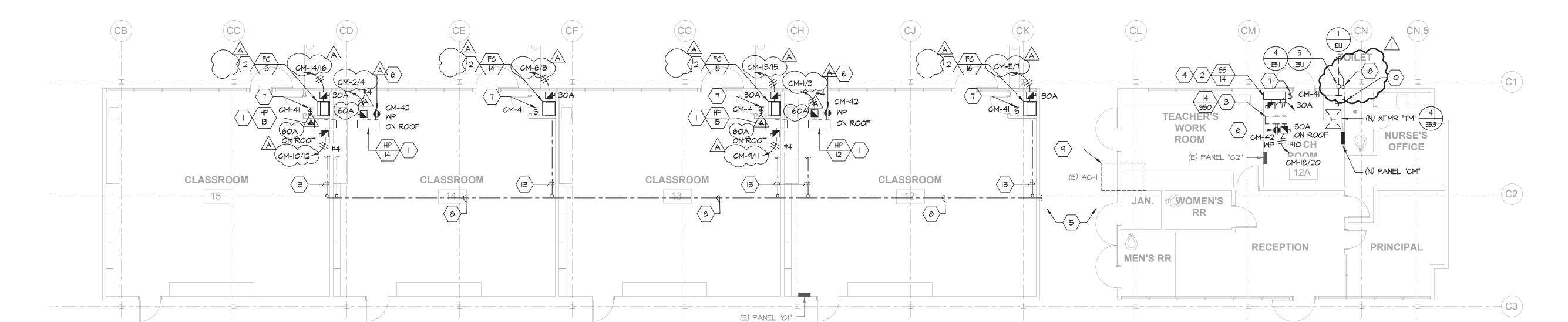
1 ELECTRICAL NEW FLOOR PLAN - BLDG A





2 ELECTRICAL NEW FLOOR PLAN - BLDG B

E3.1 SCALE: 1/8" = 1'-0"



ELECTRICAL NEW FLOOR PLAN - BLDG C

E3.1 | SCALE: 1/8" = 1'-0"

GENERAL NOTES:

CONNECTION POINTS AS NEEDED.

- I. ALL CONDUITS SHALL BE ROUTED CONCEALED IN CEILING BELOW WHERE POSSIBLE. ALL EXPOSED CONDUITS SHALL BE
- 2. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND POINTS OF CONNECTION FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR. ADJUST LOCATION AND
- 3. SEE PANEL SCHEDULES AND SINGLE LINE DIAGRAM FOR POWER CONNECTION REQUIREMENTS.
- 4. COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUREMENTS.
- 5. FUSED AND UNFUSED DISCONNECT SWITCHES SHALL BE 600V RATED, HEAVY DUTY CYCLE. FUSES FOR MECHANICAL UNITS SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATION.
- 6. ROUTING SHOWN AND NOTED IS DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE TO VERIFY ROOM'S EXISTING CONDITION. COORDINATE AND CONFIRM CONDUIT ROUTING INSIDE BUILDING WITH ARCHITECT AND OWNER REPRESENTATIVE PRIOR TO INSTALLATION.

OORDINATE AND CONFIRM CONDUIT ROUTING INSIDE BUILDING
WITH ARCHITECT AND OWNER REPRESENTATIVE PRIOR TO
INSTALLATION.

7. PROVIDE CONDUIT ROOF PENETRATIONS REQUIRED. COORDINATE
ROOF PENETRATION LOCATIONS WITH MECHANICAL'S PIPING
ROOF PENETRATIONS. ROOF PENETRATION SHALL BE PER

SHEET NOTES:

- NEW 60A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- 2 NEW 30A-2P, NEMA-I, MOTOR-RATED DISCONNECT SWITCH FOR MECHANICAL

ASSOCIATED OUTDOOR UNIT. REFER TO MECHANICAL SCHEDULE MPO.02

- $\left\langle 3\right\rangle$ NEW 30A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT. $\left\langle 4\right\rangle$ INDOOR UNIT IS POWER BY THE OUTDOOR UNIT. ROUTE HOMERUN CIRCUIT TO
- FOR ADDITIONAL REQUIREMENTS.

 5 MOUNT CONDUIT ADJACENT TO CHASE AND ROUTE ACROSS THE HALLWAY.
- 6 PROVIDE NEW WEATHERPROOF GFCI RECEPTACLE. RECEPTACLE SHALL BE MOUNTED ON WEATHERPROOF BOX WITH WHILE-IN-USE COVER. COVER SHALL BE INTERMATIC WPIOIMXD "BOSS".
- PROVIDE MOTOR RATED SMITCH AND 120V POWER FOR CONDENSATION PUMP.
- 8 ROUTE NEW CONDUIT IN CENTER OF THE ROOM ACROSS THE CEILING. MOUNT ADJACENT TO EXISTING CONDUIT ROUTED ON THE CEILING.

- 9 EXISTING MECHANICAL UNIT AND CONNECTIONS TO REMAIN.
- (IO) NEW 400A-3P, NEMA I, UNFUSED DISCONNECT SWITCH.
- (II) ROUTE CONDUIT UP ALONG WALL TIGHT TO CEILING.
- ROUTE CONDUIT ALONG WALL TIGHT TO LOWER CEILING, UP TO HIGHER
- CEILING AND TIGHT TO CENTER OF CEILING.

 (13) ROUTE CONDUIT ALONG LOWER CEILING, UP WALL TO HIGHER CEILING AND
- ON CEILING TO CENTER.

 (14) ROUTE NEW CONDUIT IN CENTER OF THE ROOM ACROSS THE CEILING.
- (15) ROUTE ON CEILING TO CENTER.
- ROUTE CONDUIT IN THE ABOVE ACCESSIBLE CEILING.

 17 PROVIDE NEMA-3R, 120V MOTOR RATED SWITCH FOR ROOFTOP EXHAUST FAN. ROUTE 120V CIRCUIT TO THE PANEL AND CIRCUIT INDICATED.
- COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

 STUB FUTURE SOLAR CONDUIT 18" ABOVE GRADE AT THIS APPROXIMATE LOCATION AND CAP.

aedis

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PROJECT

NORTH
SHOREVIEW
ELEMENTARY

SCHOOL - HVAC

REPLACEMENT

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

CONSULTANT



American Consulting Engineers
Electrical, Inc.

1590 The Alameda, Suite 200
San Jose, CA 95128
JOB # EK21030.00

408/236-2312
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STATE

DSA FILE NUMBER

41-26

REVISIONS

No. Description Date

ADDENDUM 1 11/24/2021

MILESTONES

90% CD
DSA SUB 05/24/2021
BACKCHECK 10/13/2021

SHEET

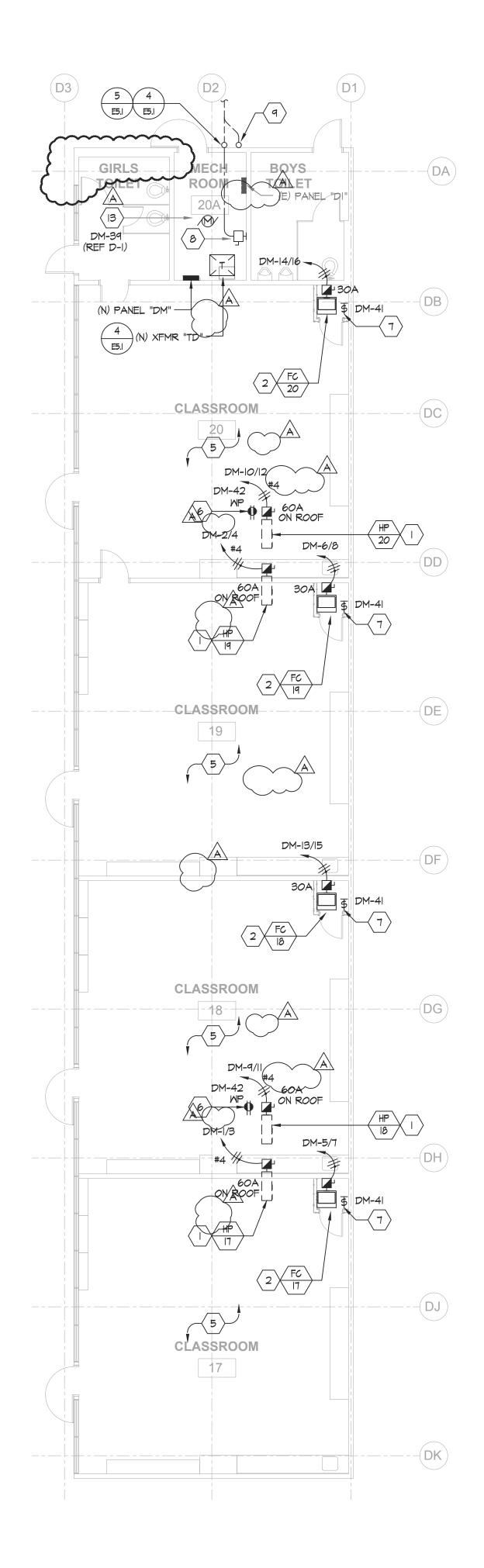
BLDG KEY

ELECTRICAL
NEW FLOOR
PLANS BLDGS A, B & C

11/24/2021

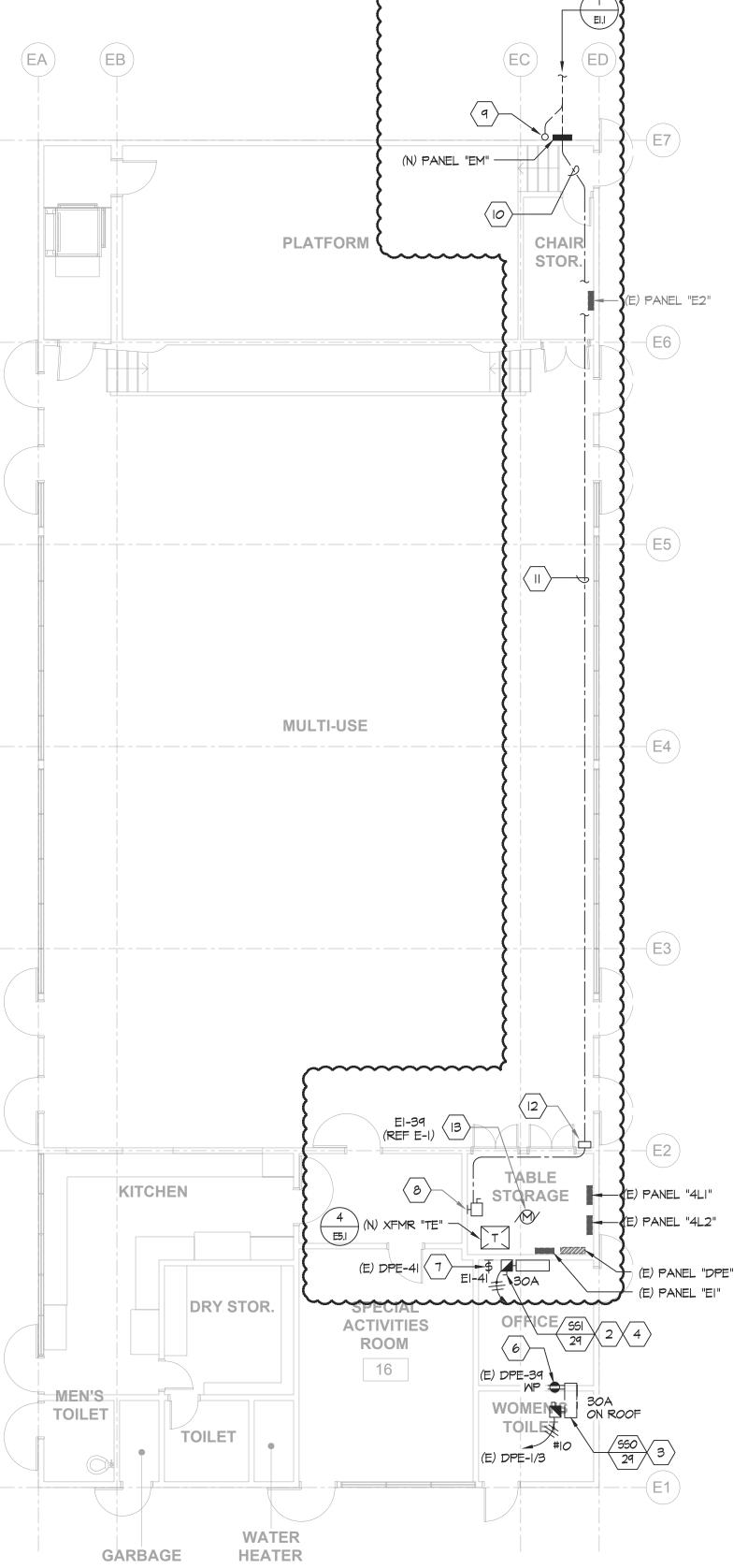
11/24/2021 JOB# 2021005.05

SHEET# AD-1









<u>A</u>_____

ELECTRICAL NEW FLOOR PLAN - BLDG E E3.2 SCALE: 1/8" = 1'-0"



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PROJECT NORTH SHOREVIEW ELEMENTARY SCHOOL - HVAC REPLACEMENT

GENERAL NOTES:

CONNECTION POINTS AS NEEDED.

RECOMMENDATION.

INSTALLATION.

DETAIL 4/MP6.01.

SHEET NOTES:

POWER CONNECTION REQUIREMENTS.

I. ALL CONDUITS SHALL BE ROUTED CONCEALED IN CEILING BELOW WHERE POSSIBLE. ALL EXPOSED CONDUITS SHALL BE

2. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND

POINTS OF CONNECTION FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR. ADJUST LOCATION AND

3. SEE PANEL SCHEDULES AND SINGLE LINE DIAGRAM FOR

5. FUSED AND UNFUSED DISCONNECT SWITCHES SHALL BE 600V RATED, HEAVY DUTY CYCLE. FUSES FOR MECHANICAL UNITS

6. ROUTING SHOWN AND NOTED IS DIAGRAMMATIC. CONTRACTOR

IS RESPONSIBLE TO VERIFY ROOM'S EXISTING CONDITION. COORDINATE AND CONFIRM CONDUIT ROUTING INSIDE BUILDING WITH ARCHITECT AND OWNER REPRESENTATIVE PRIOR TO

PROVIDE CONDUIT ROOF PENETRATIONS REQUIRED. COORDINATE ROOF PENETRATION LOCATIONS WITH MECHANICAL'S PIPING

NEW 60A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.

2 NEW 30A-2P, NEMA-(, MOTOR-RATED DISCONNECT SWITCH FOR MECHANICAL UNIT.

 $\left\langle 3\right\rangle$ NEW 30A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.

4 INDOOR UNIT IS POWER BY THE OUTDOOR UNIT. ROUTE HOMERUN CIRCUIT TO ASSOCIATED OUTDOOR UNIT. REFER TO MECHANICAL SCHEDULE MPO.02 FOR ADDITIONAL REQUIREMENTS.

5 ROUTE NEW CONDUIT IN CENTER OF THE ROOM ACROSS THE CEILING. MOUNT ADJACENT TO EXISTING CONDUIT ROUTED ON THE CEILING.

PROVIDE NEW WEATHERPROOF GFCI RECEPTACLE. RECEPTACLE SHALL BE MOUNTED ON WEATHERPROOF BOX WITH WHILE-IN-USE COVER. COVER SHALL BE INTERMATIC WPIOIMXD "BOSS".

7 PROVIDE MOTOR RATED SMITCH AND 120V POWER FOR CONDENSATION PUMP.

9 STUB FUTURE SOLAR CONDUIT 18" ABOVE GRADE AT THIS APPROXIMATE LOCATION AND CAP.

TRANSITION CONDUIT UP HIGH AND ROUTE JUST BELOW THE CEILING IN THE MULTI-USE.

PROVIDE NEMA-3R, 120V MOTOR RATED SWITCH FOR ROOFTOP EXHAUST FAN. ROUTE 120V CIRCUIT TO THE PANEL AND CIRCUIT INDICATED. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.

ВВВ

ROUTE CONDUIT EXPOSED IN THE MULTI-USE BELOW THE CEILING.

(12) PROVIDE PULL CAN AS NEEDED IN LOCATIONS REQUIRED.

BLDG KEY

 $\left\langle \mathcal{B}\right\rangle$ NEW 400A-3P, NEMA I, UNFUSED DISCONNECT SWITCH.

ROOF PENETRATIONS. ROOF PENETRATION SHALL BE PER

4. COORDINATE WITH ARCHITECTURAL AND MECHANICAL

DRAWINGS FOR ADDITIONAL REQUREMENTS.

SHALL BE SIZED PER THE MANUFACTURER'S

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ADDENDUM 1 11/24/2021

MILESTONES DD

05/24/2021

10/13/2021

DSA SUB BACKCHECK

90% CD

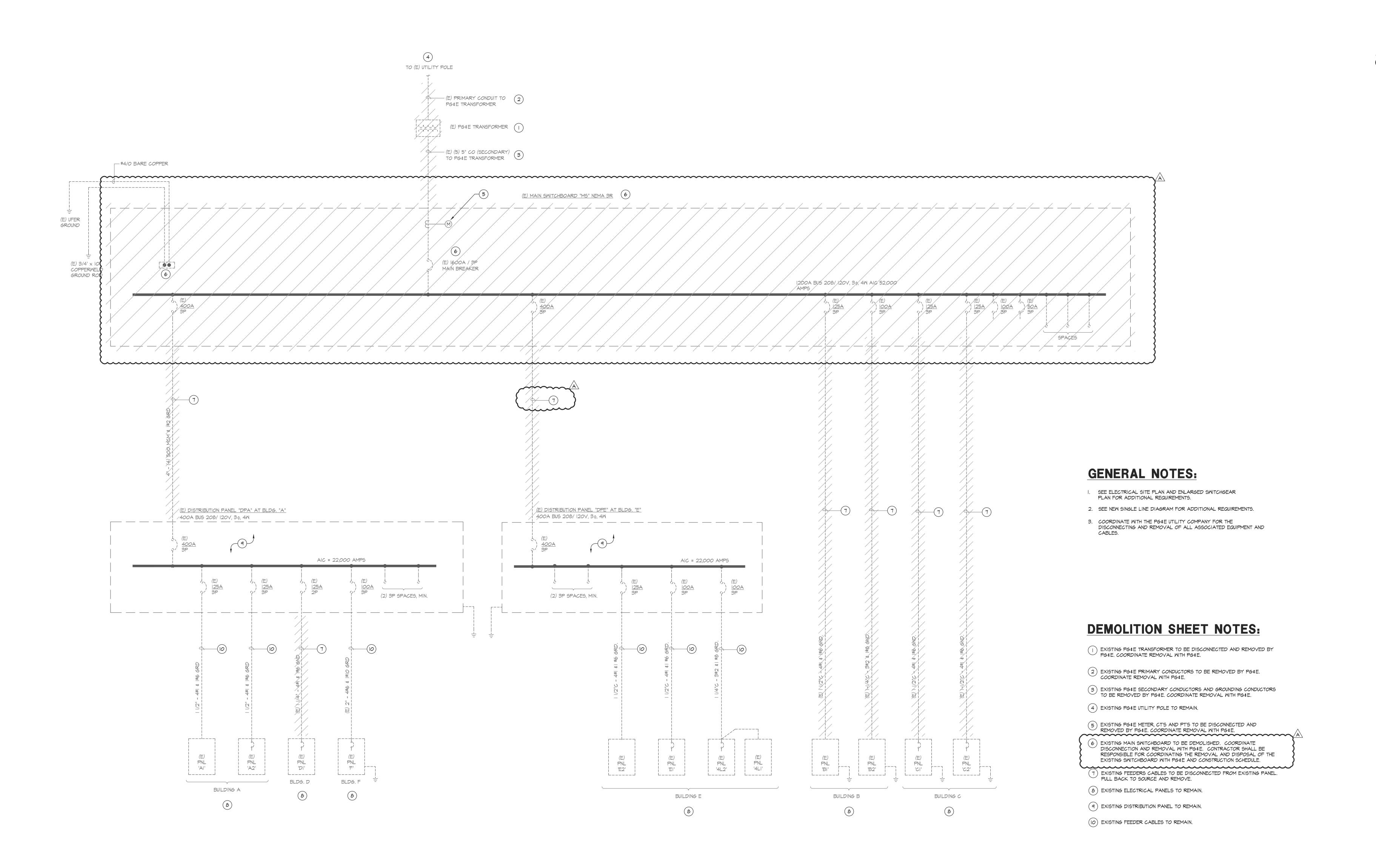
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ELECTRICAL **NEW FLOOR** PLANS -BLDGS D & E

> 11/24/2021 ^{JOB#} 2021005.05

AD-1 **E3.2**







E4.1 NOT TO SCALE

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PROJECT NORTH

SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

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MILESTONES
DD

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BACKCHECK 10/13/2021

05/24/2021

SHEET

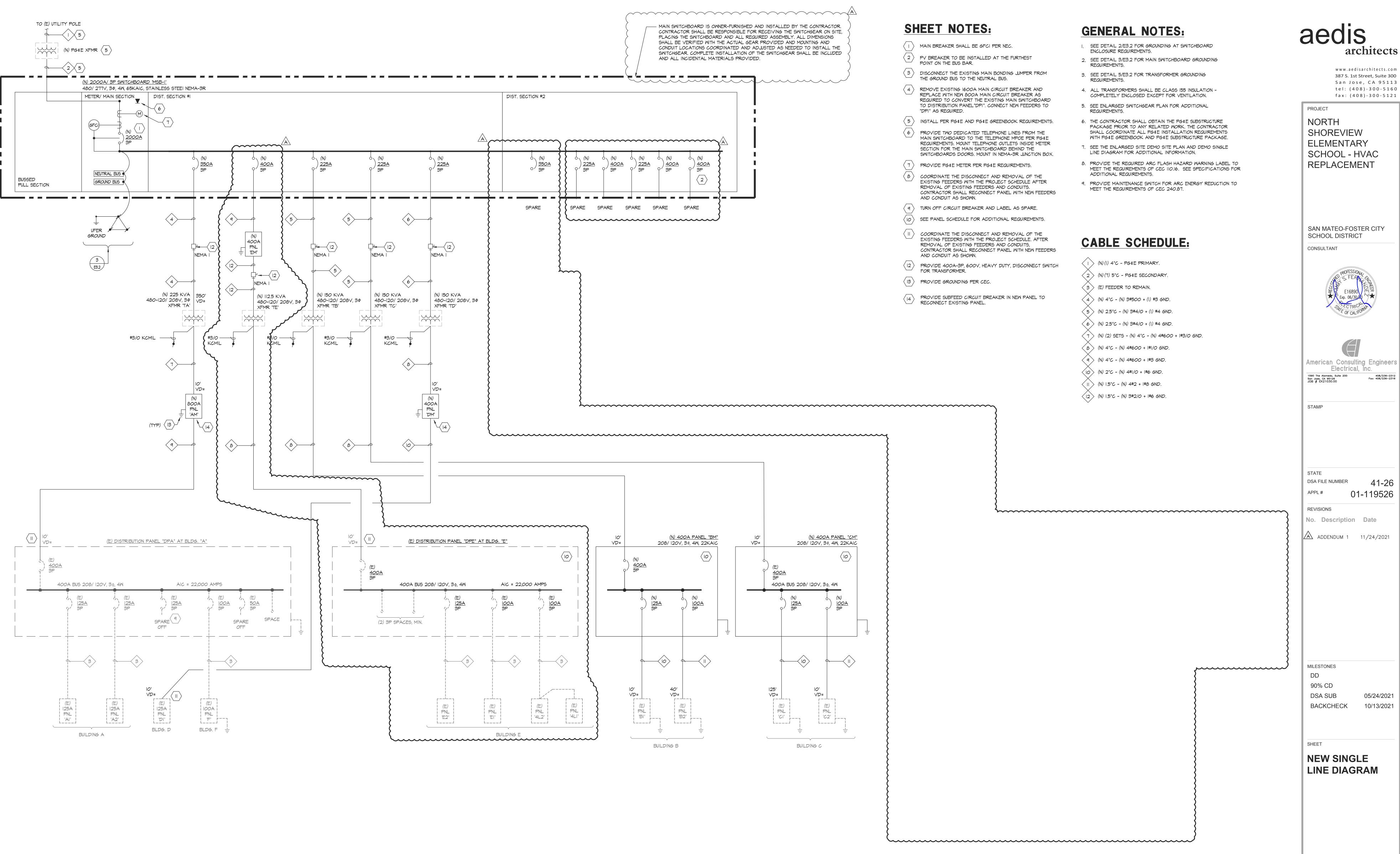
DEMO SINGLE LINE DIAGRAM

11/24/2021

JOB# 2021005.05

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PROJECT

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REVISIONS

No. Description Date

A ADDENDUM 1 11/24/2021

MILESTONES

90% CD DSA SUB

BACKCHECK 10/13/2021

05/24/2021

NEW SINGLE LINE DIAGRAM

11/24/2021

NEL NAME: (N)"AM" DLTAGE: 208/120V		FED FROM: XFRM 'TA ' MAIN C/B: 800A-3P	PANEL NAME: (N)"BM" VOLTAGE: 208/120V		FED FROM: XFRM 'TB' MAIN C/B: 400A-3P	PANEL NAME: (N)"CM" VOLTAGE: 208/120V	<u></u>			FED FROM: MA IN C/B:
3		BUSSING: 800 A MP MIN. A IC: 10,000	PHASE: 3 WRE: 4		BUSSING: 400 AMP MIN. AIC: 10,000	PHASE				BUSSING: MIN. AIC:
NEMA 1 ING: SURFACE		SUB-FEED C/B: 400A-3P	TYPE: NEMA 1 MOUNTING: SURFACE		SUB-FEED C/B: FEED THRU LUGS: YES	TYPE: NEMA 1 MOUNTING: SURFACE				SUB-FEED C/B: FEED THRU LUGS:
LOAD	OTYPE (KVA) CB CKT PH CKT CB LOAD TYPE (KV		LOAD	TYPE (KVA) CB CKT PH CKT CB LOAD TYPE (KV	A)		LOAD TYPE (KVA)	CB CKT PH (CKT CB LOAD TY	PE(KVA)
		MTR NCL CIRCUIT DESCRIPTION		 	MTR NCL CIRCUIT DESCRIPTION	CIRCUIT DESCRIPTION	LTG REC MTR	NCL AMP/P # 3.74 50A 1 A	# AMP/P LTG	REC MTR NCL CIRCUIT DESCRIPTION
AT PUMP - CLASSROOM 1	3.74 50A 1 A 2 50A	3.74 (N) HEAT PUMP - CLASSROOM 5	(N) HEAT PUMP 8A - COMP LAB	3.74 50A 1 A 2 50A 2P 3 B 4 2P	3.74 (N) HEAT PUMP 10 - CLASSROOM 10	(N) HEAT PUMP 12 - CLASSROOM 12		3.74 JOA 1 A 3.74 2P 3 B	2 30A 2P	3.74 (N) HEAT PUMP 14 - CLASSROOM 14
AN COIL - CLASSROOM 1	0.89 15A 5 C 6 15A	0.89 (N) FAN COIL - CLASSROOM 5	(N) FAN COIL 8A - COMP LAB	0.89 15A 5 C 6 15A	0.89 (N) FAN COIL 10 - CLASSROOM 10	(N) FAN COIL 12 - CLASSROOM 12		0.89 15A 5 C	6 15A	0.89 (N) FAN COIL 14 - CLASSROOM 14
" " "	0.89 2P 7 A 8 2P	0.89 " " " " "	H H H H	0.89 2P 7 A 8 2P	0.89 " " " "	H H H H		0.89 2P 7 A	8 2P	0.89 " " " "
IEAT PUMP - CLASSROOM 2	3.74 50A 9 B 10 50A	3.74 (N) HEAT PUMP - CLASSROOM 6	(N) HEAT PUMP 9 - CLASSROOM 9	3.74 50A 9 B 10 50A	3.74 (N) HEAT PUMP 11 - CLASSROOM 11	(N) HEAT PUMP 13 - CLASSROOM 13		3.74 50A 9 B	10 50A	3.74 (N) HEAT PUMP 15 - CLASSROOM 15
п п п	3.74 2P 11 C 12 2P	3.74 " " " "	1 1 1 1 1	3.74 2P 11 C 12 2P	3.74 " " " "	11 11 11 11		3.74 2P 11 C	12 2P	3.74 " " " "
FAN COIL - CLASSROOM 2	0.89 15A 13 A 14 15A	0.89 (N) FAN COIL - CLASSROOM 6	(N) FAN COIL 9 - CLASSROOM 9	0.89 15A 13 A 14 15A	0.89 (N) FAN COIL 11 - CLASSROOM 11	(N) FAN COIL 13 - CLASSROOM 13		0.89 15A 13 A		0.89 (N) FAN COIL 15 - CLASSROOM 15
	0.89 2P 15 B 16 2P	0.89 " " " " "	" " " " " " CDA PE	0.89 2P 15 B 16 2P	0.89 " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " "		0.89 ^{2P} 15 B	16 ^{2P}	0.89 " " " " " " 1.4 CLASSPOOM 12A
HEAT PUMP - CLASSROOM 3	3.74 50A 17 C 18 50A	3.74 (N) HEAT PUMP - CLASSROOM 7	SPARE SPARE	20A/1P 17 C 18 20A/1P 20A/1P 19 A 20 20A/1P	SPA RE SPA RE	SPARE SPARE		20A/1P 17 C 20A/1P 19 A	20 2P	1.87 (N) SSO-14 / SSI-14 - CLASSROOM 12A
HEAT PUMP - CLASSROOM 3	0.89 15A 21 B 22 15A	0.89 (N) FAN COIL - CLASSROOM 7	SPARE	20A/1P 21 B 22 125A	(E) PANEL B1	SPARE		20A/1P 21 B	22 125A	(E) PANEL C1
	0.89 2P 23 C 24 2P	0.89 " " " " "	SPARE	20A/1P 23 C 24	n n n n	SPARE		20A/1P 23 C	24	11 11 11 11
HEAT PUMP - CLASSROOM 4	3.74 50A 25 A 26 50A	3.74 (N) HEAT PUMP - CLASSROOM 8	SPARE	20A/1P 25 A 26 3P	п п п п	SPARE		20A/1P 25 A	26 3P	п п п п
п п п	3.74 2P 27 B 28 2P	3.74 " " " "	SPARE	20A/1P 27 B 28 100A	(E) PANEL B2	SPARE		20A/1P 27 B		(E) PA NEL C2
HEAT PUMP - CLASSROOM 4	0.89 15A 29 C 30 15A	0.89 (N) FAN COIL - CLASSROOM 8	SPARE	20A/1P 29 C 30	n n n n	SPARE		20A/1P 29 C		n n n n
и и п	0.89 2P 31 A 32 2P	0.89 " " " "	SPA RE	20A/1P 31 A 32 3P		SPARE		20A/1P 31 A		00000
RE	20A/1P 33 B 34 20A/1P	SPARE	SPA RE	20A/1P 33 B 34 20A/1P	SPA RE	SPA RE		20A/1P 33 B		SPARE SPARE
KE	20A/1P 35 C 36 20A/1P 20A/1P 37 A 38 20A/1P	SPA RE SPA RE	SPA RE SPA RE	20A/1P 35 C 36 20A/1P 20A/1P 37 A 38 20A/1P	SPA RE SPA RF	SPARE SPARE		20A/1P 35 C 20A/1P 37 A	36 20A/1P 38 20A/1P	SPARE SPARE
RE MOTOR RATED SWITCH FOR COND. PUMP - BLDG A	0.48 20A/1P 37 A 38 20A/1P 0.90	(N) WEATHERPROOF GFCI REC - BLDG A	SPARE	20A/1P 37 A 38 20A/1P 20A/1P 39 B 40 20A/1P	SPA RE	SPARE		20A/1P 39 B	40 20A/1P	SPARE
WOTOR RATED SWITCH FOR COND. POWER - BLDG A	0.48 20A/1P 41 C 42 20A/1P	SPA RE	(N) MOTOR RATED SWITCH FOR COND. PUMP - BLDG B	0.48 20A/1P 41 C 42 20A/1P 0.54	(N) WEATHERPROOF GFCI REC - BLDG B	(N) MOTOR RATED SWITCH FOR COND. PUMP - BLDG C	0.48	20A/1P 41 C	42 20A/1P	0.54 (N) WEATHERPROOF GFCI REC - BLDG C
0	0 1.0 37.1 0 0.9		0	0 0.5 18.6 0 0.5			0 0 0.5			0.5 0 22.3
LOAD SUMMARY CONNECTED KVA DEWAI		KVA PHASE A (CONNECTED) 27.8	LOA D SUMMARY CONNECTED KVA DEMA	ND FACTOR DEMAND KVA Yes/No	KVA PHASE A (CONNECTED) 11.1	LOAD SUMMARY CONNECTED KV	VA DEMAND FACTOR	DEMAND KVA	Y	es/No KVA PHASEA (CONNECTED)
) LIGHTING X 125% 0	1.25 0.0 FULL RATED AIC Y	KVA PHASE B (CONNECTED) 27.4	(LTG) LIGHTING X 125% 0	1.25 0.0 FULL RATED AIC Y	KVA PHASE B (CONNECTED) 16.8	(LTG) LIGHTING X 125% 0	1.25	0.0	FULL RATED AIC	· · ·
) RECEPTS PER 220.44; 0.9 (A x 100% + REMAINDER x 50% 0	1.00 0.9 SERIES RATED AIC N 0.50 0.0 SPD N	KVA PHASE C (CONNECTED) 20.8 SUB FEED CONNECTED LOAD	(REC) RECEPTS PER 220.44; 0.5 10KVA x 100% + REMAINDER x 50% 0	1.00 0.5 SERIES RATED AIC N 0.50 0.0 SPD N	KVA PHASE C (CONNECTED) 10.3 SUB FEED CONNECTED LOAD	(REC) RECEPTS PER 220.44; 0.5 10KVA x 100% + REMA INDER x 50% 0	1.00 0.50	0.5	SERIES RATED AIC SPD	
LARGEST MOTOR X 125% 0.5	1.25 0.6 COPPER BUSSING Y		(MTR) LA RGEST MOTOR X 125% 0.5	1.25 0.6 COPPER BUSSING Y		(MTR) LARGEST MOTOR X 125% 0.5	1.25	0.6	COPPER BUSSING	Y
MA INING MOTORS x 100% 0.5	1.00 0.5 ALUMINUM BUSSING N	TOTAL DEMAND KVA 76.2	+ REWA INING MOTORS x 100% 0	1.00 0.0 A LUMINUM BUSSING N	TOTAL DEWAND KVA 38.2	+ REMA INING MOTORS x 100% 0	1.00	0.0	A LUMINUM BUSSING	N TOTAL DEWAND KVA
NON CONTINOUS LOAD x 100% 74.2 NAME (N)"DM" GE 208/120V 3	1.00 74.2	TOTAL LOAD AMPERES 211.7 FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 A MP	(NCL) NON CONTINOUS LOAD x 100% 37.1	1.00 37.1	TOTAL LOAD AMPERES 106.2 FED FROM: (N) XFRM 'TE MAIN C/B: 400A-3P	(NCL) NON CONTINOUS LOAD x 100% 40.9	1.00 V	40.9		TOTAL LOAD AMPERES FED FROM MAIN C/E
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 A MP MIN. AIC: 10,000 SUB-FEED C/B:	PA NEL NAME: EXISTING "DPE" VOLTA GE: 208/120V PHA SE: 3 WIRE: 4	1.00 37.1	FED FROM: (N) XFRM 'TE' MA IN C/B: 400A-3P BUSSING: 400 AMP	PANEL NAME: EM VOLTAGE: 480/277' PHASE: 3 WIRE: 4		40.9		FED FROM MAIN C/E BUSSING MIN. AIC
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 OTYPE(KVA) CB CKT PH CKT CB LOAD TYPE(KV	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A)	PA NEL NAME: EXISTING "DPE" VOLTA GE: 208/120V PHA SE: 3 WIRE: 4 TY PE: NEWA 1	1.00 37.1	FED FROM: (N) XFRM 'TE' MA IN C/B: 400A-3P BUSSING: 400 AMP MIN. A IC: 10,000 SUB-FEED C/B: 125A-3P	PANEL NAME: EM VOLTAGE: 480/277\text{?} PHASE: 3	SR DE			FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 OTYPE (KVA)	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 A MP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION	PANEL NAME: VOLTAGE: PHASE: WIRE: TY PE: MOUNTING: EXISTING "DPE" 208/120V A 1 NEWA 1 SURFACE	TYPE(KVA) CB CKT PH CKT CB LOAD TYPE(KVA	FED FROM: (N) XFRM 'TE' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS:	PANEL NAME: EM VOLTAGE: 480/277° PHASE: 3 WIRE: 4 TYPE: NEMA 3	BR	CB CKT PH		FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E
EL NAME: .TAGE: .TAGE: .SE:	1.00 74.2 OTYPE (KVA) CB	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 A MP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19	PANEL NAME: EXISTING "DPE"	TYPE(KVA) CB CKT PH CKT CB LOAD TYPE(KVA	FED FROM: (N) XFRM 'TE' MA IN C/B: 400A-3P BUSSING: 400 AMP MIN. A IC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS:	PANEL NAME: EM VOLTAGE: 480/277° PHASE: 3 WIRE: 4 TYPE: NEMA 3I MOUNTING: SURFAC	ER CE LOAD TYPE (KVA) LTG REC MTR	CB CKT PH		FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA)
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 OTYPE (KVA)	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 A MP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 " " " " "	PANEL NAME: EXISTING "DPE" VOLTAGE: 208/120V PHASE: 3 WIRE: 4 TY PE: NEWA 1 MOUNTING: SURFACE CIRCUIT DESCRIPTION LTG (N) SSO-29 / SSI-29	TYPE (KVA) CB CKT PH CKT CB LOAD TYPE (KVA REC MTR NCL AMP/P # # AMP/P LTG REC M 1.87 (N) 30A 1 A 2 40A	FED FROM: (N) XFRM 'TE' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. A IC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS:	PANEL NAME: EM VOLTAGE: 480/277° PHASE: 3 WIRE: 4 TYPE: NEMA 3I MOUNTING: SURFAC	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH NCL AMP/P # 20A/1P 1 A	# AMP/P LTG	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA)
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 OTYPE (KVA) CB	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 " " " " " " " " " " " " " " " " " " "	PANEL NAME: EXISTING "DPE"	TYPE (KVA) CB CKT PH CKT CB LOAD TYPE (KVA REC MTR NCL AMP/P # # AMP/P LTG REC M	FED FROM: (N) XFRM 'TE' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. A IC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS: (E) AC UNIT	PANEL NAME: EM VOLTAGE: 480/277° PHASE: 3 WIRE: 4 TYPE: NEMA 3 MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	ER CE LOAD TYPE (KVA) LTG REC MTR	CB CKT PH NCL AMP/P # 20A/1P 1 A	# AMP/P LTG 2 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA)
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 OTYPE (KVA)	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 A MP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 " " " " " " " " " " " " " " " " " " "	PANEL NAME: EXISTING "DPE"	TYPE (KVA) CB	FED FROM: (N) XFRM 'TE' MA IN C/B: 400A-3P BUSSING: 400 AMP MIN. A IC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS: NOTE NCL CIRCUIT DESCRIPTION (E) AC UNIT " " " " "	PANEL NAME: EM VOLTAGE: 480/277' PHASE: 3 WIRE: 4 TYPE: NEMA 3I MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 3 B 20A/1P 5 C	# AMP/P LTG 2 20A/1P 3 4 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE SPARE
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 OTYPE (KVA) CB	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 " " " " " " " " " " " " " " " " " " "	PANEL NAME: VOLTAGE: VOLTAGE: PHASE: WIRE: TYPE: NEWA 1 MOUNTING: CIRCUIT DESCRIPTION (N) SSO-29 / SSI-29 SPACE SPACE EXISTING "DPE" 208/120V 1 NPE' NEWA 1 SURFACE LOAD LTG	TYPE (KVA) CB CKT PH CKT CB LOAD TYPE (KVA REC MTR NCL AMP/P # # AMP/P LTG REC N 1.87 (N) 30A 1 A 2 40A 1.87 2P 3 B 4 5 C 6 3P 7 A 8 20A/1P 9 B 10 20A/1P	FED FROM: (N) XFRM 'TE' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS:) //TR NCL CIRCUIT DESCRIPTION (E) AC UNIT " " " " " "	PANEL NAME: VOLTAGE: HASE: WIRE: TYPE: MOUNTING: CIRCUIT DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 3 B 20A/1P 5 C 20A/1P 7 A 20A/1P 9 B	# AMP/P LTG 2 20A/1P 3 4 20A/1P 5 6 20A/1P 6 8 20A/1P 7 8 10 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 OTYPE (KVA)	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MITR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.89 (N) FAN COIL 19 - CLASSROOM 19 0.89 " " " " " " " " " " " " " " " " " " "	PA NEL NAME: VOLTA GE: VOLTA GE: PHA SE: WIRE: TY PE: NEWA 1 MOUNTING: CIRCUIT DESCRIPTION (N) SSO-29 / SSI-29 SPACE SPACE SPACE SPACE SPACE	TYPE (KVA) CB CKT PH CKT CB LOAD TYPE (KVA REC MTR NCL AMP/P # # AMP/P LTG REC N 1.87 (N) 30A 1 A 2 40A 1.87 2P 3 B 4 5 C 6 3P 7 A 8 20A/1P 9 B 10 20A/1P 11 C 12 50A	FED FROM: (N) XFRM 'TE' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. A IC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS: (E) AC UNIT " " " " " " (E) KILN (E) KILN (E) OVEN	PANEL NAME: EM VOLTAGE: 480/277' PHASE: 3 WIRE: 4 TYPE: NEMA 3I MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 3 B 20A/1P 5 C 20A/1P 7 A 20A/1P 9 B 20A/1P 11 C	# AMP/P LTG 2 20A/1P 3 4 20A/1P 5 6 20A/1P 6 8 20A/1P 7 8 10 20A/1P 7 12 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 CB	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 A MP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 " " " " " " 0.89 (N) FAN COIL 19 - CLASSROOM 19 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 3.74 " " " " " " " " " " " " " " " " " " "	PANEL NAME: EXISTING "DPE"	TYPE (KVA) CB	FED FROM: (N) XFRM 'TE' MA IN C/B: 400A-3P BUSSING: 400 AMP MIN. A IC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS: (E) AC UNIT " " " " " " (E) KILN (E) KILN (E) OVEN " " " " " "	PANEL NAME: EM VOLTAGE: 480/277' PHASE: 3 WIRE: 4 TYPE: NEMA 3 MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 3 B 20A/1P 5 C 20A/1P 7 A 20A/1P 9 B 20A/1P 11 C 20A/1P 13 A	# AMP/P LTG 2 20A/1P 3 4 20A/1P 5 6 20A/1P 6 8 20A/1P 8 10 20A/1P 7 12 20A/1P 6 14 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 Type (KVA)	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 " " " " " " 0.89 (N) FAN COIL 19 - CLASSROOM 20 3.74 " " " " " " 9.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 " " " " " " " SPARE	PANEL NAME: EXISTING "DPE"	TYPE (KVA) CB	FED FROM: (N) XFRM 'TE' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. A IC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS: (E) AC UNIT " " " " " " (E) KILN (E) KILN (E) OVEN	PANEL NAME: EM VOLTAGE: 480/277' PHASE: 3 WIRE: 4 TYPE: NEMA 3I MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 3 B 20A/1P 5 C 20A/1P 7 A 20A/1P 9 B 20A/1P 11 C	# AMP/P LTG 2 20A/1P 3 4 20A/1P 5 6 20A/1P 6 8 20A/1P 7 8 10 20A/1P 7 12 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 CB	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 " " " " " " 0.89 (N) FAN COIL 19 - CLASSROOM 19 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 3.74 " " " " " " " 0.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 " " " " " " " " " " " " " " " " " " "	PANEL NAME: EXISTING "DPE"	TYPE (KVA) CB	FED FROM: (N) XFRM 'TE' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. A IC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS: (E) AC UNIT (E) AC UNIT (E) KILN (E) KILN (E) OVEN " " " " " (E) MAIN GYM HEAT	PANEL NAME: EM VOLTAGE: 480/277° PHASE: 3 WIRE: 4 TYPE: NEMA 3I MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 3 B 20A/1P 5 C 20A/1P 7 A 20A/1P 9 B 20A/1P 11 C 20A/1P 13 A 20A/1P 13 B	# AMP/P LTG 2 20A/1P 3 4 20A/1P 5 6 20A/1P 6 8 20A/1P 6 10 20A/1P 7 12 20A/1P 7 14 20A/1P 8 16 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 Type (KVA)	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 " " " " " " 0.89 (N) FAN COIL 19 - CLASSROOM 20 3.74 " " " " " " 9.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 " " " " " " " SPARE	PANEL NAME: EXISTING "DPE" VOLTAGE: 208/120V PHASE: 3 WIRE: 4 TYPE: NEMA 1 MOUNTING: SURFACE LOAD LTG (N) SSO-29 / SSI-29 SPACE SPAC	TYPE (KVA)	FED FROM: (N) XFRM 'TE MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. A IC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS: (E) AC UNIT " " " " " " (E) KILN (E) COVEN " " " " " " (E) MAIN GYM HEAT " " " " " "	PANEL NAME: VOLTAGE: HASE: HASE: WIRE: TYPE: NEMA 3 MOUNTING: CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 3 B 20A/1P 5 C 20A/1P 7 A 20A/1P 9 B 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 17 C	# AMP/P LTG 2 20A/1P 3 4 20A/1P 3 6 20A/1P 4 8 20A/1P 5 10 20A/1P 5 12 20A/1P 6 14 20A/1P 7 14 20A/1P 8 16 20A/1P 7 18 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 CB	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 " " " " " " " " " " " " " " " " " " "	PANEL NAME: EXISTING "DPE" VOLTAGE: 208/120V PHASE: 3 WIRE: 4 TYPE: NEWA 1 MOUNTING: SURFACE LOAD LTG LTG LTG LTG LTG LT	TYPE (KVA) REC MTR NCL AMP/P # # AMP/P LTG REC N NCL N N N N N N N N N	FED FROM: (N) XFRM 'TE' MA IN C/B: 400A-3P BUSSING: 400 AMP MIN. A IC: 10,000 SUB-FEED C/B: FEED THRU LUGS:	PANEL NAME: VOLTAGE: HASE: HASE: WIRE: TYPE: NEMA 3I MOUNTING: CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 3 B 20A/1P 5 C 20A/1P 7 A 20A/1P 9 B 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A	# AMP/P LTG 2 20A/1P 3 4 20A/1P 6 6 20A/1P 8 8 20A/1P 8 10 20A/1P C 12 20A/1P C 14 20A/1P C 15 20A/1P C 16 20A/1P C 17 20A/1P C 18 20A/1P C 18 20A/1P C 18 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 Type KVA CB	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.89 (N) FAN COIL 19 - CLASSROOM 19 0.89 (N) FAN COIL 19 - CLASSROOM 20 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 3.74 " " " " " " " " " " " " " " " " " " "	PANEL NAME	TYPE (KVA)	FED FROM: (N) XFRM 'TE	PANEL NAME: VOLTAGE: PHASE: WIRE: TYPE: NEMA 3I MOUNTING: SURFACE CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 5 C 20A/1P 7 A 20A/1P 9 B 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 23 C 20A/1P 25 A	# AMP/P LTG 2 20A/1P 3 4 20A/1P 3 6 20A/1P 4 8 20A/1P 5 10 20A/1P 6 12 20A/1P 7 14 20A/1P 8 16 20A/1P 7 18 20A/1P 8 20 20A/1P 8 20 20A/1P 8 20 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 Type (kva)	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 0.89 (N) FAN COIL 19 - CLASSROOM 19 0.89 " " " " " " " " " " " " " " " " " " "	PANEL NAME VOLTAGE: PHASE: WIRE: TYPE: MOUNTING: CIRCUIT DESCRIPTION (N) SSO-29 / SSI-29 SPACE	TYPE (KVA) REC MTR NCL AMP/P # # AMP/P LTG REC N N N N N N N N N	FED FROM: (N) XFRM 'TE	PANEL NAME: VOLTAGE: HASE: HASE: HASE: WIRE: TYPE: NEMA 3I MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 5 C 20A/1P 7 A 20A/1P 7 A 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 23 C 20A/1P 25 A 20A/1P 27 B	# AMP/P LTG 2 20A/1P 3 4 20A/1P 6 6 20A/1P 7 8 20A/1P 7 8 10 20A/1P 7 12 20A/1P 7 14 20A/1P 7 18 20A/1P 7 18 20A/1P 7 20 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2 - NAME:	1.00 74.2 CB	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 0.89 (N) FAN COIL 19 - CLASSROOM 19 0.89 " " " " " " " " " " " " " " " " " " "	PANEL NAME	TYPE (KVA) CB	FED FROM: (N) XFRM 'TE MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS: (E) AC UNIT (E) AC UNIT (E) KILN (E) KILN (E) OVEN (E) OVEN (E) AIR SUPPLY FAN SPACE SPACE SPACE	PANEL NAME: VOLTAGE: PHASE: 3 WIRE: 4 TYPE: NEMA 3I MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 5 C 20A/1P 7 A 20A/1P 7 A 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 23 C 20A/1P 25 A 20A/1P 27 B 20A/1P 29 C	# AMP/P LTG 2 20A/1P 3 4 20A/1P 6 6 20A/1P 7 8 20A/1P 7 8 10 20A/1P 7 12 20A/1P 7 14 20A/1P 7 18 20A/1P 7 18 20A/1P 7 20 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 OTYPE (KVA)	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 (N) FAN COIL 19 - CLASSROOM 19 0.89 (N) FAN COIL 19 - CLASSROOM 20 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 3.74 (N) FAN COIL 20 - CLASSROOM 20 0.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 (N) FAN E (E) PANEL D1 """" SPARE SPARE SPARE SPARE	PANEL NAME VOLTAGE: PHASE: WIRE: TYPE: MOUNTING: CIRCUIT DESCRIPTION (N) SSO-29 / SSI-29 SPACE	TYPE (KVA) REC MIR NCL AMP/P # # AMP/P LTG REC N 1.87 (N) 30A 1 A 2 40A 1.87 5 C 6 3P	FED FROM: (N) XFRM 'TE MA IN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS: (E) AC UNIT (E) AC UNIT (E) KILN (E) KILN (E) CIPCUIT DESCRIPTION (E) MAIN GYM HEAT (E) MAIN GYM HEAT (E) AIR SUPPLY FAN (E) AIR SUPPLY FAN (E) AIR SUPPLY FAN (E) SPACE SPACE SPACE	PANEL NAME: VOLTAGE: PHASE: WIRE: TYPE: NEMA 3I MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 5 C 20A/1P 7 A 20A/1P 7 A 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 23 C 20A/1P 25 A 20A/1P 27 B 20A/1P 29 C 20A/1P 31 A	# AMP/P LTG 2 20A/1P 3 4 20A/1P 3 6 20A/1P 3 8 20A/1P 3 10 20A/1P 3 10 20A/1P 4 14 20A/1P 5 16 20A/1P 6 18 20A/1P 7 20 20A/1P 8 22 20A/1P 8 23 20A/1P 9 30 20A/1P 9 30 20A/1P 9 30 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2 . NAME	1,00	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 (N) FAN COIL 19 - CLASSROOM 19 0.89 (N) FAN COIL 19 - CLASSROOM 20 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 3.74 (N) FAN COIL 20 - CLASSROOM 20 0.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 (N) FAN E (E) PANEL D1 " " " " " " " " " " " " " " " " " " "	PANEL NAME: EXISTING "DPE"	TYPE (KVA) REC MTR NCL AMP/P # # AMP/P LTG REC M 1.87 (N) 30A 1 A 2 40A 1.87 5 C 6 3P	FED FROM: (N) XFRM 'TE' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS: (E) AC UNIT (E) AC UNIT (E) KILN (E) KILN (E) KILN (E) OVEN """""" (E) MAIN GYM HEAT """"" (E) AIR SUPPLY FAN """"" SPACE SPACE SPACE	PANEL NAME: VOLTAGE: PHASE: 3 WIRE: 4 TYPE: NEMA 3I MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH # AMP/P # A 20A/1P 1 A 20A/1P 5 C 20A/1P 7 A 20A/1P 7 A 20A/1P 11 C 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 21 B 20A/1P 23 C 20A/1P 25 A 20A/1P 25 A 20A/1P 27 B 20A/1P 29 C 20A/1P 31 A 20A/1P 33 B	# AMP/P LTG 2 20A/1P 3 4 20A/1P 6 6 20A/1P 7 8 20A/1P 7 8 10 20A/1P 7 12 20A/1P 7 14 20A/1P 7 18 20A/1P 7 18 20A/1P 7 20 20A/1P 7 30 20A/1P 7 31 20A/1P	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 CB	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 " " " " " " " 0.89 (N) FAN COIL 19 - CLASSROOM 19 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 3.74 " " " " " " " " " " " " " " " " " " "	PANEL NAME	TYPE (KVA) CB	FED FROM: (N) XFRM 'TE	PANEL NAME: VOLTAGE: PHASE: WIRE: TYPE: NEMA 3I MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH # 20A/1P 1 A 20A/1P 3 B 20A/1P 7 A 20A/1P 7 A 20A/1P 11 C 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 21 B 20A/1P 23 C 20A/1P 25 A 20A/1P 27 B 20A/1P 27 B 20A/1P 29 C 20A/1P 31 A 20A/1P 31 A 20A/1P 33 B 20A/1P 33 B 20A/1P 33 B 20A/1P 33 C	# AMP/P LTG 2 20A/1P 3 4 20A/1P 6 6 20A/1P 7 8 20A/1P 7 8 20A/1P 7 9 12 20A/1P 7 14 20A/1P 7 14 20A/1P 7 18 20A/1P 7 18 20A/1P 7 20 20A/1P 7 30 20A/1P 7 30 20A/1P 7 30 20A/1P 7 30 30 20A/1P 7 31 32 20A/1P 7 32 34 20A/1P 7 36 20A/1P 7 37 38 170A	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	TOTYPE (KVA) CB CKT PH CKT CB AMP/P # AMP/P LTG REC 3.74 50A 1 A 2 50A 3.74 2P 3 B 4 2P 0.89 15A 5 C 6 15A 0.89 2P 7 A 8 2P 0.89 15A 9 B 10 50A 3.74 50A 9 B 10 50A 3.74 50A 9 B 10 50A 3.74 50A 13 A 14 15A 0.89 2P 15 B 16 2P 20A/1P 17 C 18 20A/1P 20A/1P 21 B 22 20A/1P 21 B 22 20A/1P 27 B 28 20A/1P 20A/1P 33 B 34 20A/1P 20A/1P 33 C 36 20A/1P 20A/1P 35 C 36 20A/1P 20A/1P 37 A 38 20A/1P	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 " " " " " " 0.89 (N) FAN COIL 19 - CLASSROOM 19 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 3.74 " " " " " " 0.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 " " " " " " SPARE (E) PANEL D1 " " " " " " SPARE	PANEL NAME	TYPE (KVA) REC MTR NCL AMP/P # # # AMP/P LTG REC N 1.87 (N) 30A 1 A 2 40A 1.87 5 C 6 3P 7 A 8 20A/1P 9 B 10 20A/1P 9 B 10 20A/1P 11 C 12 50A 13 A 14 2P 15 B 16 20 17 C 18 19 A 20 3P 21 B 22 20A 21 B 22 20A 22 20A 23 C 24 2P 25 A 26 27 B 28 29 C 30 31 A 32 33 B 34 35 C 36 37 A 38 125A 0.18 (N)20A/1P 39 B 40	FED FROM: (N) XFRM TE MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS: OTHER NCL CIRCUIT DESCRIPTION (E) AC UNIT " " " " " " (E) KILN (E) KILN (E) KILN (E) MAIN GYM HEAT " " " " " " (E) AIR SUPPLY FAN " " " " " " SPACE SPACE	PANEL NAME: VOLTAGE: 480/277* PHASE: 3 WIRE: 4 TYPE: NEMA 3 MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH # AMP/P # A 20A/1P 1 A 20A/1P 3 B 20A/1P 7 A 20A/1P 7 A 20A/1P 11 C 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 21 B 20A/1P 23 C 20A/1P 25 A 20A/1P 25 A 20A/1P 27 B 20A/1P 27 B 20A/1P 31 A 20A/1P 33 B 20A/1P 33 B 20A/1P 35 C 20A/1P 35 C	# AMP/P LTG 2 20A/1P 3 4 20A/1P 6 6 20A/1P 7 8 20A/1P 7 8 10 20A/1P 7 12 20A/1P 7 14 20A/1P 7 14 20A/1P 7 18 20A/1P 7 20 20A/1P 7 30 20A/1P 7 30 20A/1P 7 31 32 20A/1P 7 32 20A/1P 7 33 34 20A/1P 7 36 20A/1P 7 37 38 170A	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	1.00 74.2 CB	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.74 " " " " " " " 0.89 (N) FAN COIL 19 - CLASSROOM 19 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 3.74 " " " " " " " " " " " " " " " " " " "	PANEL NAME VOLTAGE VOLTAGE PHASE 3 WIRE TYPE NEWA 1 MOUNTING: SURFACE CIRCUIT DESCRIPTION LTG (N) SSO-29 / SSI-29 SPACE	TYPE (KVA) REC MTR NCL AMP/P # # AMP/P LTG REC N 1.87 (N) 30A 1 A 2 2P 3 B 4 5 C 6 3P 7 A 8 20A/1P 9 B 10 20A/1P 11 C 12 50A 13 A 14 2P 15 B 16 20 17 C 18 19 A 20 3P 21 B 22 20A 21 B 22 20A 22 C 24 24 CP 25 A 26 27 B 28 29 C 30 31 A 32 33 B 34 35 C 36 37 A 38 0.18 (N)20A/1P 41 C 42	FED FROM: (N) XFRM TE MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS:) //////////////////////////////////	PANEL NAME: VOLTAGE: 480/277* PHASE: 3 WIRE: 4 TYPE: NEMA 3 MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH # AMP/P # A 20A/1P 1 A 20A/1P 3 B 20A/1P 7 A 20A/1P 7 A 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 21 B 20A/1P 23 C 20A/1P 25 A 20A/1P 25 A 20A/1P 27 B 20A/1P 27 B 20A/1P 29 C 20A/1P 31 A 20A/1P 33 B 20A/1P 35 C 20A/1P 37 A 20A/1P 39 B	# AMP/P LTG 2 20A/1P 3 4 20A/1P 3 8 20A/1P 3 8 20A/1P 3 10 20A/1P 3 10 20A/1P 4 14 20A/1P 5 16 20A/1P 6 18 20A/1P 7 20 20A/1P 7 20 20A/1P 8 22 20A/1P 8 22 20A/1P 8 28 20A/1P 8 28 20A/1P 8 30 20A/1P 8 31 20A/1P 8 32 20A/1P 8 32 20A/1P 8 34 20A/1P 8 34 20A/1P 8 34 20A/1P 8 34 20A/1P 8 35 20A/1P 8 36 20A/1P 8 37 20A/1P 8 38 37 20A/1P 8 38 38 38 38 38 38 38 38 38 38 38 38 38	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	CB	FED FROM: XFRM 'TD' MAIN CB: 400A-3P BUSSING: 400 AMP MIN AIC: 10,000 SUB-FEED CB: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 0.89 (N) FAN COIL 19 - CLASSROOM 19 0.89 (N) FAN COIL 20 - CLASSROOM 20 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 0.89 (N) FAN COIL 20	PANEL NAME:	TYPE (KVA) REC MTR NCL AMP/P # # AMP/P LTG REC N 1.87 (N) 30A 1 A 2 2P 3 B 4 3P 20A/1P 9 B 10 20A/1P 11 C 12 50A 20 13 A 14 2P 15 B 16 17 C 18 19 A 20 21 B 22 20A 21 B 28 22 COA 23 C 24 2P 25 A 26 27 B 28 29 C 30 31 A 32 33 B 34 35 C 36 37 A 38 35 C 36 37 A 38 125A 3P 125A 3P	FED FROM: (N) XFRM TE MAIN C/B: 400A-3P BUSSING: 400A-3P BUSSING: 400A-3P BUSSING: 400A MPP MIN. AIC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS: O ITR NCL CIRCUIT DESCRIPTION (E) AC UNIT (E) AC UNIT (E) KILN (E) KILN (E) CVEN (E) MAIN GYM HEAT (E) AIR SUPPLY FAN (E) AIR SUPPLY FAN (E) AIR SUPPLY FAN (F) SPACE	PANEL NAME: VOLTAGE: VOLTAGE: PHASE: WIRE: TYPE: NEMA 3I MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH # AMP/P # A 20A/1P 1 A 20A/1P 3 B 20A/1P 7 A 20A/1P 7 A 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 21 B 20A/1P 23 C 20A/1P 25 A 20A/1P 25 A 20A/1P 27 B 20A/1P 27 B 20A/1P 29 C 20A/1P 31 A 20A/1P 33 B 20A/1P 35 C 20A/1P 37 A 20A/1P 39 B	# AMP/P LTG 2 20A/1P 3 4 20A/1P 3 8 20A/1P 3 8 20A/1P 3 10 20A/1P 3 10 20A/1P 4 14 20A/1P 5 16 20A/1P 6 18 20A/1P 7 20 20A/1P 7 20 20A/1P 8 22 20A/1P 8 22 20A/1P 8 28 20A/1P 8 28 20A/1P 8 30 20A/1P 8 31 20A/1P 8 32 20A/1P 8 32 20A/1P 8 34 20A/1P 8 34 20A/1P 8 34 20A/1P 8 34 20A/1P 8 35 20A/1P 8 36 20A/1P 8 37 20A/1P 8 38 37 20A/1P 8 38 38 38 38 38 38 38 38 38 38 38 38 38	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS: YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
EL NAME TAGE TAGE TAGE TAGE TAGE TAGE TAGE TAG	TYPE(KVA)	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.89 (N) FAN COIL 19 - CLASSROOM 19 0.89 (N) FAN COIL 20 - CLASSROOM 20 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 3.74 (N) FAN COIL 20 - CLASSROOM 20 0.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 SPARE (B) PANEL D1 """" SPARE	PANEL NAME: VOLTA GE: PHASE WIRE TYPE: NEMA 1 MOUNTING: SURFACE CIRCUIT DESCRIPTION (N) SSO-29 / SSI-29 SPACE SPA	TYPE (KVA) REC MTR NCL AMP/P # # AMP/P LTG REC N 1.87 (N) 30A 1 A 2 1.87 5 C 6 3P 7 A 8 20A/1P 9 B 10 20A/1P 11 C 12 50A 13 A 14 2P 15 B 16 17 C 18 19 A 20 21 B 22 20A 21 B 22 20A 21 B 22 20A 21 B 22 20A 22 B 28 23 C 24 2P 25 A 26 27 B 28 29 C 30 31 A 32 33 B 34 35 C 36 37 A 38 125A 0.18 (N)20A/1P 39 B 40 0.2 4.7 0 ND FACTOR DEMAND KVA	FED FROM: (N) XFRM 'TE MAIN CIS: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED CIS: 125A-3P FEED THRU LUGS:) //// /// /// /// /// /// //	PANEL NAME: VOLTAGE: PHASE: 3 WIRE: 4 TYPE: NEMA 3I MOUNTING: SURFACE CIRCUIT DESCRIPTION SPARE	LOAD TYPE (KVA) LTG REC MTR	CB CKT PH # AMP/P # A 20A/1P 1 A 20A/1P 5 C 20A/1P 7 A 20A/1P 9 B 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 21 B 20A/1P 23 C 20A/1P 25 A 20A/1P 25 A 20A/1P 27 B 20A/1P 27 B 20A/1P 27 B 20A/1P 31 A 20A/1P 33 B 20A/1P 33 B 20A/1P 35 C 20A/1P 37 A 20A/1P 39 B 20A/1P 39 B	# AMP/P LTG 2 20A/1P 3 4 20A/1P 3 6 20A/1P 3 8 20A/1P 3 10 20A/1P 3 10 20A/1P 4 14 20A/1P 5 16 20A/1P 5 18 20A/1P 6 20 20A/1P 6 20 20A/1P 7 20 20A/1P 8 22 20A/1P 8 22 20A/1P 8 28 20A/1P 8 28 20A/1P 8 30 20A/1P 8 30 20A/1P 8 34 20A/1P 8 36 20A/1P 9 37 20A/1P 9 38 37 20A/1P	FED FROM MAIN C/E BUSSING MIN AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100%	1.00	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 A MP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 0.89 (N) FAN COIL 19 - CLASSROOM 19 0.89 (N) FAN COIL 20 - CLASSROOM 20 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 0.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 (N) FAN E SPARE (E) PANEL D1 """"" SPARE	PANEL NAME: EXISTING "DPE"	TYPE (KVA) REC MTR NCL AMP/P # H # AMP/P LTG REC N 1.87	FED FROM: (N) XFRM 'TE MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS:) //// /// /// /// /// /// //	PANEL NAME: VOLTAGE: PHASE: WIRE: TYPE: NEMA 3 MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	ER CE LOAD TYPE (KVA) LTG REC MTR INCREMENTAL INCRE	CB CKT PH # AMP/P # A 20A/1P 1 A 20A/1P 5 C 20A/1P 7 A 20A/1P 9 B 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 21 B 20A/1P 23 C 20A/1P 25 A 20A/1P 25 A 20A/1P 27 B 20A/1P 27 B 20A/1P 27 B 20A/1P 31 A 20A/1P 33 B 20A/1P 33 B 20A/1P 35 C 20A/1P 37 A 20A/1P 39 B 20A/1P 39 B	# AMP/P LTG 2 20A/1P 3 4 20A/1P 3 8 20A/1P 3 10 20A/1P 3 10 20A/1P 3 16 20A/1P 3 16 20A/1P 3 16 20A/1P 3 16 20A/1P 3 20 20A/1P 3 20 20A/1P 3 22 20A/1P 3 24 20A/1P 3 28 20A/1P 3 30 20A/1P 3 30 20A/1P 3 31 20A/1P 3 32 20A/1P 3 34 20A/1P 3 35 20A/1P 3 36 20A/1P 3 37 20A/1P 3 38 170A 3 40 3 40 5 42 3P FULL RATED AIC SERIES RATED AIC	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100%	Type (KVA)	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 3.89 (N) FAN COIL 19 - CLASSROOM 19 0.89 (N) FAN COIL 20 - CLASSROOM 20 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 3.74 (N) FAN COIL 20 - CLASSROOM 20 0.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 SPARE (B) PANEL D1 """" SPARE	PANEL NAME: EXISTING "DPE"	TYPE (KVA) REC MTR NCL AMP/P # H # AMP/P LTG REC N 1.87	FED FROM: (N) XFRM 'TE MAIN CB: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED CB: 125A-3P FEED THRU LUGS:) //////////////////////////////////	PANEL NAME: VOLTAGE: PHASE: WIRE: 4 TYPE: NEMA 3 MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE SPAR	BR DE LOAD TYPE (KVA) LTG REC MTR O O O KVA DEMAND FACTOR 1.25 1.00 0.50	CB CKT PH AMP/P # 20A/1P 1 A 20A/1P 5 C 20A/1P 7 A 20A/1P 9 B 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 21 B 20A/1P 23 C 20A/1P 23 C 20A/1P 27 B 20A/1P 27 B 20A/1P 27 B 20A/1P 31 A 20A/1P 31 A 20A/1P 33 B 20A/1P 35 C 20A/1P 36 C 20A/1P 37 A 20A/1P 39 B 20A/1P 37 A	# AMP/P LTG 2 20A/1P 3 4 20A/1P 3 8 20A/1P 3 10 20A/1P 3 10 20A/1P 3 16 20A/1P 3 16 20A/1P 3 16 20A/1P 3 20 20A/1P 3 20 20A/1P 3 22 20A/1P 3 22 20A/1P 3 24 20A/1P 3 28 20A/1P 3 30 20A/1P 3 30 20A/1P 3 31 20A/1P 3 32 20A/1P 3 34 20A/1P 3 35 20A/1P 3 36 20A/1P 3 37 20A/1P 3 38 170A 4 20A/1P 5 36 20A/1P 6 37 38 170A 5 40 3P 6 TULL RATED AIC SPD	FED FROM MAIN CM BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE
NON CONTINOUS LOAD x 100% 74.2	Column	FED FROM: XFRM 'TD' MAIN C/B: 400A-3P BUSSING: 400 A MP MIN. AIC: 10,000 SUB-FEED C/B: FEED THRU LUGS: YES A) MTR NCL CIRCUIT DESCRIPTION 3.74 (N) HEAT PUMP 19 - CLASSROOM 19 0.89 (N) FAN COIL 19 - CLASSROOM 19 0.89 (N) FAN COIL 20 - CLASSROOM 20 3.74 (N) HEAT PUMP 20 - CLASSROOM 20 0.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 (N) FAN COIL 20 - CLASSROOM 20 0.89 (N) FAN E SPARE (E) PANEL D1 """"" SPARE	PANEL NAME: EXISTING "DPE"	TYPE (KVA) REC MTR NCL AMP/P # H # AMP/P LTG REC N 1.87	FED FROM: (N) XFRM 'TE MAIN C/B: 400A-3P BUSSING: 400 AMP MIN. AIC: 10,000 SUB-FEED C/B: 125A-3P FEED THRU LUGS:) //// /// /// /// /// /// //	PANEL NAME: VOLTAGE: PHASE: WIRE: TYPE: NEMA 3 MOUNTING: SURFAC CIRCUIT DESCRIPTION SPARE	ER CE LOAD TYPE (KVA) LTG REC MTR INCREMENTAL INCRE	CB CKT PH # AMP/P # A 20A/1P 1 A 20A/1P 5 C 20A/1P 7 A 20A/1P 9 B 20A/1P 11 C 20A/1P 13 A 20A/1P 15 B 20A/1P 15 B 20A/1P 17 C 20A/1P 19 A 20A/1P 21 B 20A/1P 21 B 20A/1P 23 C 20A/1P 25 A 20A/1P 25 A 20A/1P 27 B 20A/1P 27 B 20A/1P 27 B 20A/1P 31 A 20A/1P 33 B 20A/1P 33 B 20A/1P 35 C 20A/1P 37 A 20A/1P 39 B 20A/1P 39 B	# AMP/P LTG 2 20A/1P 3 4 20A/1P 3 8 20A/1P 3 10 20A/1P 3 10 20A/1P 3 16 20A/1P 3 16 20A/1P 3 16 20A/1P 3 16 20A/1P 3 20 20A/1P 3 20 20A/1P 3 22 20A/1P 3 24 20A/1P 3 28 20A/1P 3 30 20A/1P 3 30 20A/1P 3 31 20A/1P 3 32 20A/1P 3 34 20A/1P 3 35 20A/1P 3 36 20A/1P 3 37 20A/1P 3 38 170A 3 40 3 40 5 42 3P FULL RATED AIC SERIES RATED AIC	FED FROM MAIN C/E BUSSING MIN. AIC SUB-FEED C/E FEED THRU LUGS YPE (KVA) REC MTR NCL CIRCUIT DESCRIPTION SPARE SPARE

architects

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PROJECT

NORTH
SHOREVIEW

SHOREVIEW
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT
CONSULTANT





STAMP

STATE
DSA FILE NUMBER 41-26
APPL # 01-119526

REVISIONS

No. Description Date

Δ

ADDENDUM 1 11/24/2021

MILESTONES
DD

90% CD

DSA SUB 05/24/2021

BACKCHECK 10/13/2021

BACKCHECK 10/13/2021

SHEET

PANEL SCHEDULES

11/24/2021

JOB# 2021005.0

AD-1 **E4.3**