



November 24, 2021

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

Subject: College Park Elementary School HVAC Replacement
San Mateo - Foster City School District
Aedis Project No. 2021005.01
DSA Application #01-119530

ADDENDUM NO. 1

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

SPECIFICATIONS

ITEM NO. 1.1: TABLE OF CONTENTS

Add: 26 24 13 SWITCHBOARDS, 600 VOLTS AND BELOW
Add: 31 23 16 TRENCHING

ITEM NO. 1.2: SECTION 32 13 26 - TRENCHING

Add: The specification in its entirety per 32 13 26 Trenching.

ITEM NO. 1.3: SECTION 32 31 13 - CHAIN LINK FENCES AND GATES

Add: 2.4 SWING GATES D. Hardware
Item 5.: Panic Hardware: CD 990AX-L-WH-6280 SNB with Gate closer/Hinge:
SureClose Pivot: SM AT90W"

DRAWINGS

ARCHITECTURAL

ITEM NO. 1.4: DRAWING SHEET T1 – TITLE SHEET

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 RESTRIPIING PAVING IN KIND.
S.E.D. FOR TRENCH ROUTING. VERIFY IN FIELD AND SEE ARCHITECTURAL SITE
PLAN FOR STRIPING AT EXISTING PAVING."

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ITEM NO. 1.5: DRAWING SHEET A1.02- SITE PLAN

Add: Trench area to New Site Plan 1/A1.02 & Graphic Key per AD1-A1.02
Revise: General Notes #G as shown per AD1-A1.02
Add: Keynote #28 to New Site Plan 1/A1.02 per AD1-A1.02
Add: Enlarged plan call outs to 4/A2.01 & 4/A3.01 in New Site Plan 1/A1.02 per AD1-A1.02

ITEM NO. 1.6: DRAWING SHEET A2.01 – DEMOLITION FLOOR PLANS – WINGS 2, 3, & 4

Add: General Sheet Note #J per AD1-A2.01
Add: Door stop keynote #6 to Demolition Floor Plans 1/A2.01, 2/A2.01 and 3/A2.01 per AD1-A2.01
Add: Wall prep for louver keynote #7 to Demolition Floor Plan 1/A2.01 per AD1-A2.01
Add: Partial ceiling demolition keynote #8 to Demolition Floor Plans 1/A2.01, 2/A2.01, and 3/A2.01 per AD1-A2.01
Revise: Reference room 9 for similar scope where occurs in Demolition Floor Plans 1/A2.01, 2/A2.01, and 3/A2.01 per AD1-A2.01
Revise: Demolition Floor Plan Keynote #4 per AD1-A2.01
Add: View 4/A2.01 Partial Demolition Floor Plan – Wing 1 per AD1-A2.01
Revise: Keynotes at rooms 9 and 10 in Demolition Floor Plan 3/A2.01 per AD1-A2.01

ITEM NO. 1.7: DRAWING SHEET A3.01 – NEW FLOOR PLANS – WING 2, 3, & 4

Revise: Reference room 9 for similar scope where occurs in New Floor Plans 1/A3.01, 2/A3.01, and 3/A3.01 per AD1-A3.01
Revise: Dimension and alignment at room 7 in New Floor Plan 3/A3.01 per AD1-A3.01
Add: Door stop keynote #7 to New Floor Plans 1/A3.01, 2/A3.01, and 3/A3.01 per AD1-A3.01
Add: New Floor Plan Keynotes #7, #8 & #9 per AD1-A3.01
Add: Louver keynote #8 to New Floor Plan 1/A3.01 per AD1-A2.01
Add: Ceiling patching keynote #9 in New Floor Plans 1/A3.01, 2/A3.01, and 3/A3.01 per AD1-A3.01
Add: Door tags 210a, 308a & 413a in New Floor Plans 1/A3.01, 2/A3.01, and 3/A3.01 per AD1-A3.01
Add: View 4/A3.01 Partial Floor Plan – Wing 1 per AD1-A3.01
Revise: Keynote 4 per AD1-A3.01

ITEM NO. 1.8: DRAWING SHEET A5.01 – PARTIAL SITE ROOF PLAN

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

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ITEM NO. 1.9: DRAWING SHEET A8.10 – EXTERIOR DETAILS

Revise: Detail 9 per AD1-A8.10

ITEM NO. 1.10: DRAWING SHEET A9.10 – INTERIOR DETAILS, WALL TYPES & ELEVATIONS

Revise: Details 1 & 3 per AD1-A9.10A

Revise: Detail 6 per AD1-A9.10B

ITEM NO. 1.11: DRAWING SHEET A11.01- FINISH SCHEDULE, CASEWORK SCHEDULE, & OPENING SCHEDULE, LEGENDS, & DETAILS

Add: Doors 210a, 308a & 413a to Door Schedule per AD1-A11.01

Add: Door Type B per AD1-A11.01

Add: Door Schedule Comment per AD1-A11.01

MECHANICAL**ITEM NO. 1.12: DRAWING SHEET MP0.02 – SCHEDULES – MECHANICAL**

Add: Roof Exhaust Fan Schedule per AD1-MP0.02

ITEM NO. 1.13: DRAWING SHEET MP2.02 – FLOOR PLAN – NEW – WINGS 2, 3, & 4 – MECHANICAL & PLUMBING

Revise: Size of Return register HSR-1 per AD1-MP2.02a

Revise: General Note #4 per AD1-MP2.02a

Add: General Note #7 per AD1-MP2.02a

Revise: New Sheet Note #12 per AD1-MP2.02a

Add: REF-4-1 and REF-4-2 per AD1-2.02b

Add: New Sheet Note #23 per AD1-2.02b

ITEM NO. 1.14: DRAWING SHEET MP2.03 – PARTIAL FLOOR PLAN - NEW - WINGS 1, 2, & 3 – MECHANICAL AND PLUMBING

Add: New sheet in its entirety per AD1-MP2.03

ITEM NO. 1.15: DRAWING SHEET MP6.01 – DETAILS – MECHANICAL & PLUMBING

Revise: Detail #4 – Piping Roof Jack per AD1-MP6.01

Add: Detail #9 – Exhaust Fan Mounting per AD1-MP6.01

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ELECTRICAL**ITEM NO. 1.16: DRAWING SHEET E1.1 – ELECTRICAL SITE PLAN**

Revise: Conduit Schedule tag #11 per AD1-E1.1
Add: Sheet Notes #14, 15 per AD1-E1.1
Add: Underground EV conduit added at 2/E1.1 per AD1-E1.1

ITEM NO. 1.17: DRAWING SHEET E3.1 – ELECTRICAL NEW FLOOR PLANS – WING 1, 2, 3 & 4

Add: Power for exhaust fan at each wing per AD1-E3.1
Add: Solar Conduit stub ups at each wing per AD1-E3.1
Revise: Electrical plan 1/E3.1, 2/E3.1 & 3/E3.1 per AD1-E3.1
Add: General Note #6 per AD1-E3.1
Revise: Sheet Notes #1, #2 & #4 per AD1-E3.1
Add: Sheet Notes 13 & 14 per AD1-E3.1

ITEM NO. 1.18: DRAWING SHEET E4.2 – NEW SINGLE LINE DIAGRAM

Revise: Circuit breakers at the switchgear per AD1-E4.2
Add: Switchboard to be OFCI per AD1-E4.2

ITEM NO. 1.19: DRAWING SHEET E4.3 – PANEL SCHEUDLES

Revise: Panel Schedule per AD1-E4.3

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Aedis Architects
Thang Do, Principal



Electrical, American Consulting Engineers Electrical
Sammy Fernandez



Mechanical, Cypress Engineering Group
Metin Serttunc

Division of the State Architect

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Attachments:

Specifications:

31 23 16 Trenching (5 pages)

Drawings:

ARCHITECTURAL:

SHEET AD1-A1.02

SHEET AD1-A2.01

SHEET AD1-A3.01

SHEET AD1-A5.01

SHEET AD1-A8.10

SHEET AD1-A9.10A

SHEET AD1-A9.10B

SHEET AD1-A11.01

MECHANICAL:

SHEET AD1-MP0.02

SHEET AD1-MP2.02a

SHEET AD1-MP2.02b

SHEET AD1-MP2.03

SHEET AD1-MP6.01a

SHEET AD1-MP6.01b

ELECTRICAL:

SHEET AD1-E1.1

SHEET AD1-E3.1

SHEET AD1-E4.2

SHEET AD1-E4.3

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.
 - 2) 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.
- B. 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.

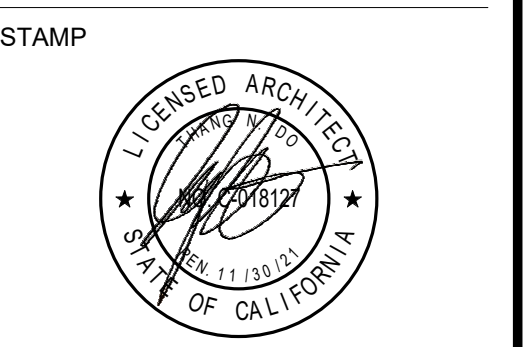
3.8 FIELD QUALITY CONTROL

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

3.9 PROTECTION OF FINISHED WORK

- 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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DSA FILE NUMBER 41-26
APPL # 01-119530

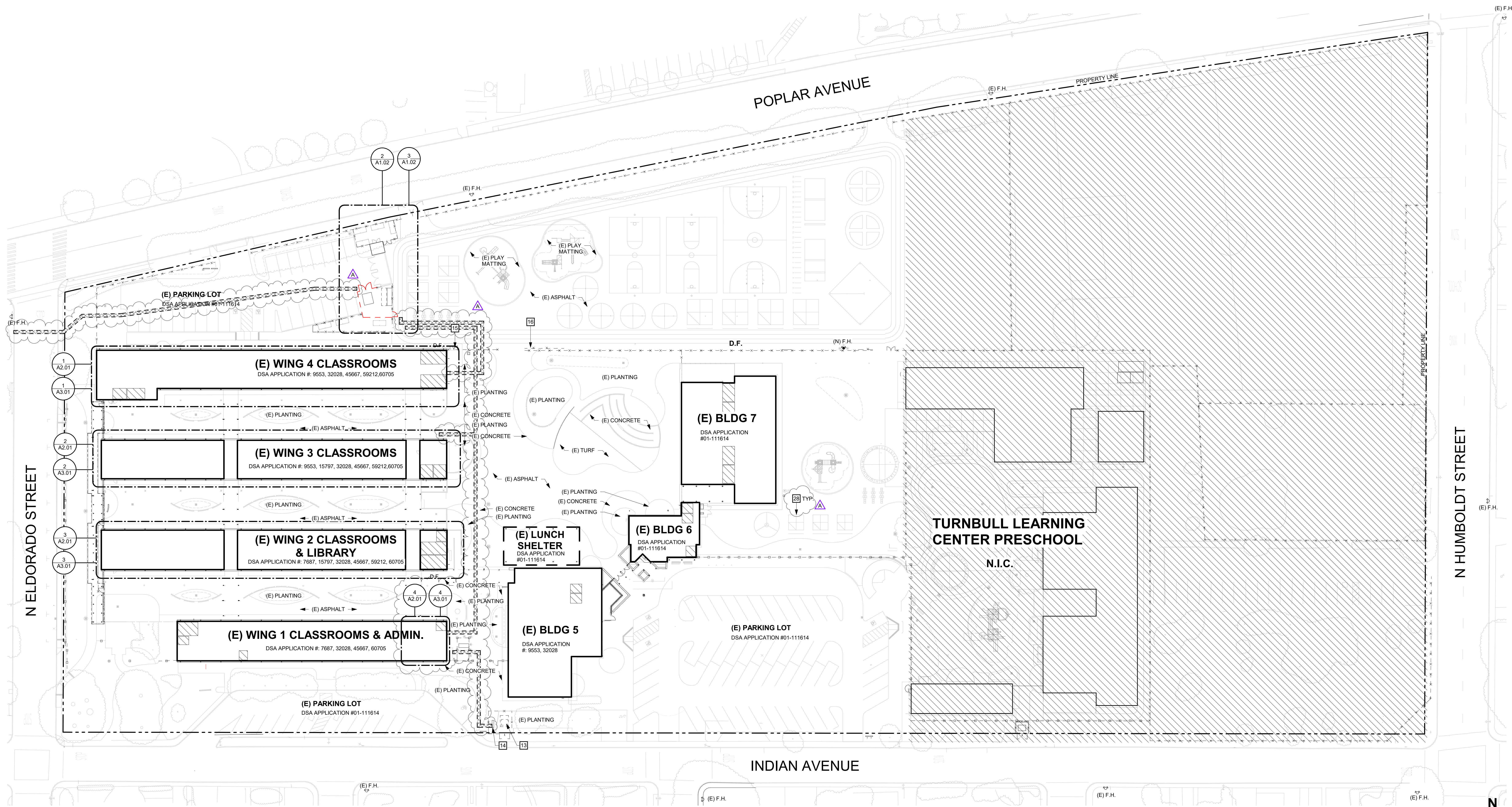
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1	Addendum 1	11/24/2021

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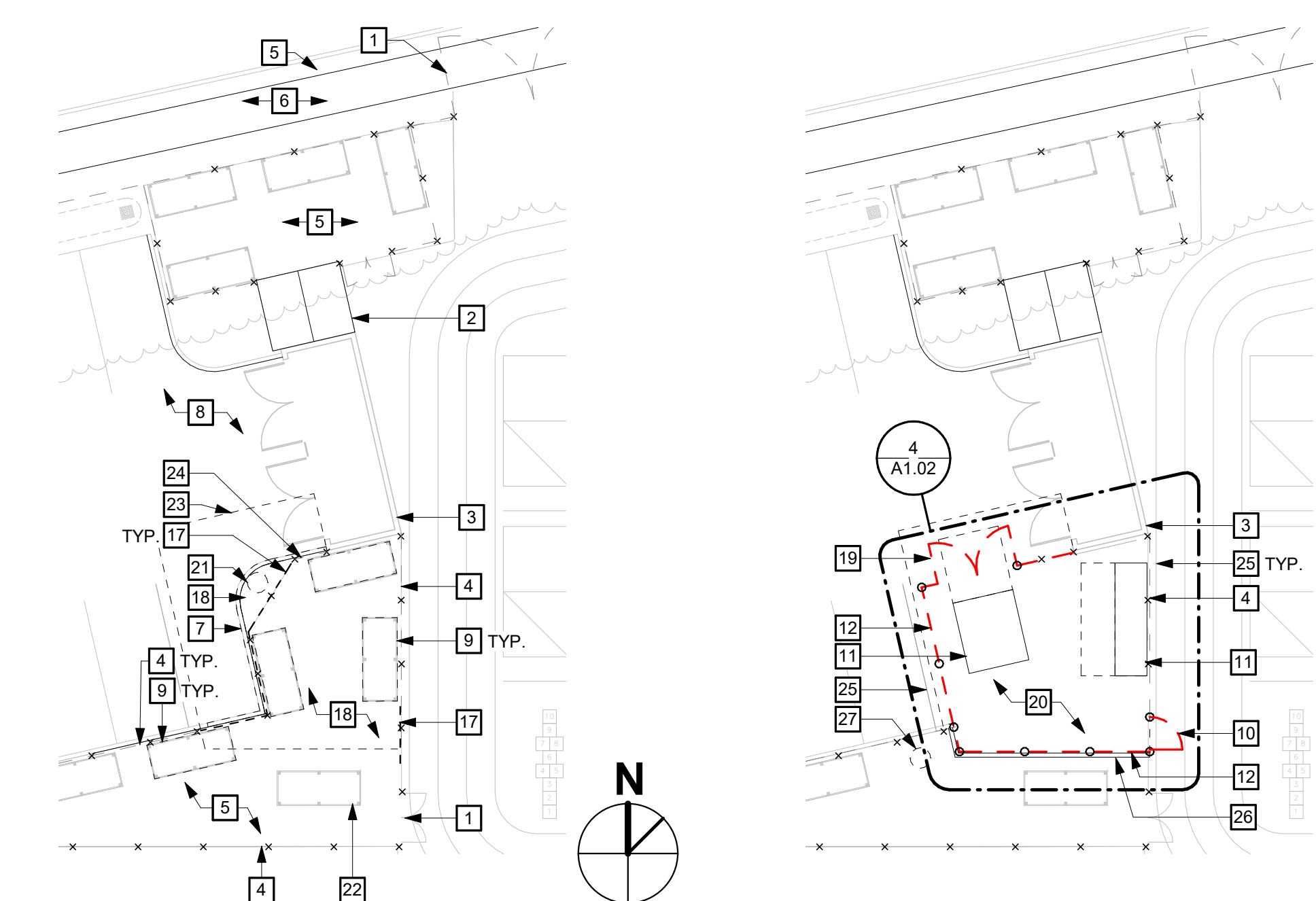
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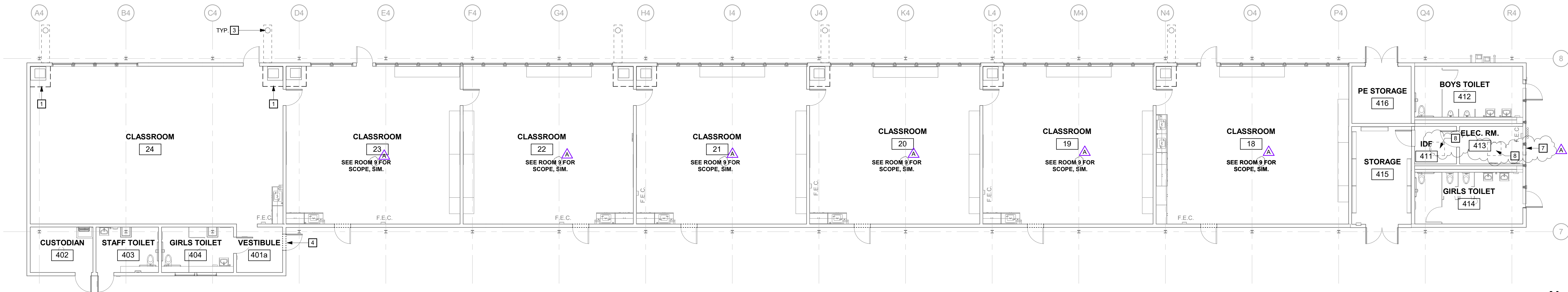
SHEET
SITE PLAN

DATE 11/24/2021
JOB # 2021005.01
SHEET # AD1-
A1.02

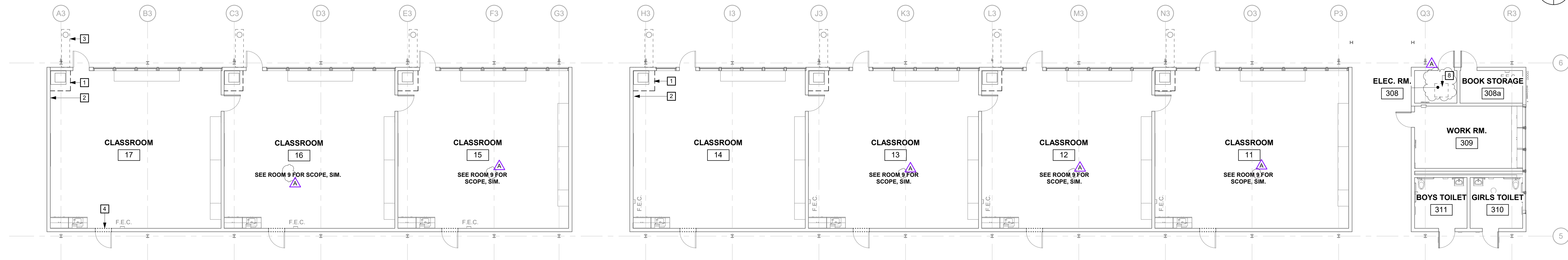


1 NEW SITE PLAN
SCALE: 1/32" = 1'-0"

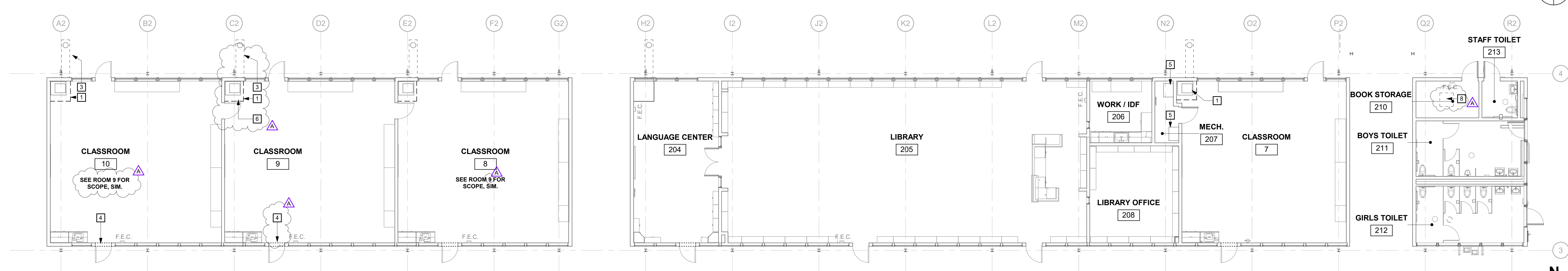




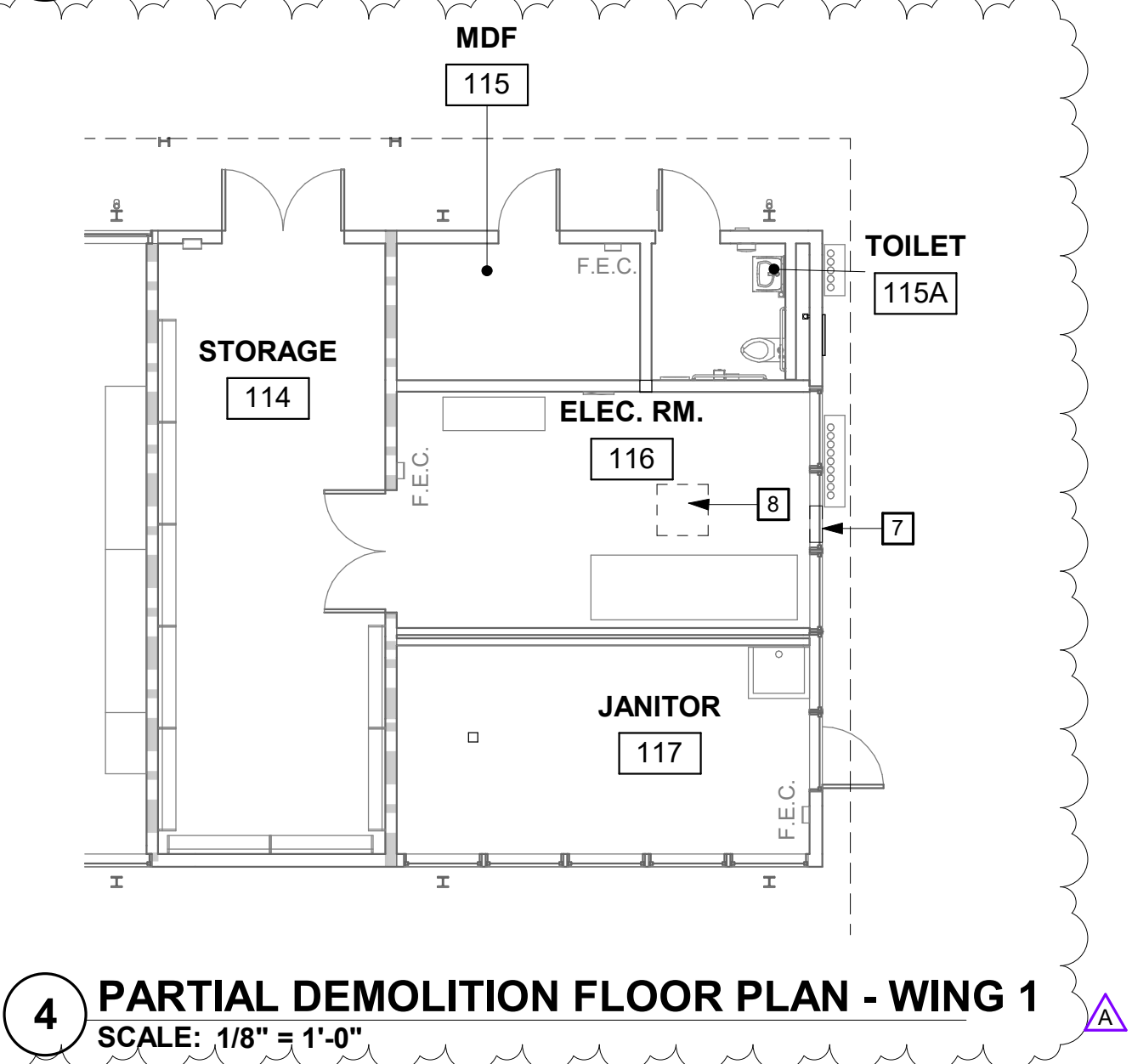
1 DEMOLITION FLOOR PLAN - WING 4
SCALE: 1/8" = 1'-0"



2 DEMOLITION FLOOR PLAN - WING 3
SCALE: 1/8" = 1'-0"



3 DEMOLITION FLOOR PLAN - WING 2
SCALE: 1/8" = 1'-0"



4 PARTIAL DEMOLITION FLOOR PLAN - WING 1
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 MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL AND ELECTRICAL DEMOLITION WORK.
- C VERIFY LIMITS OF DEMOLITION WITH SCOPE OF NEW WORK PRIOR TO COMMENCING WORK.
- 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 DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.
- J 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.

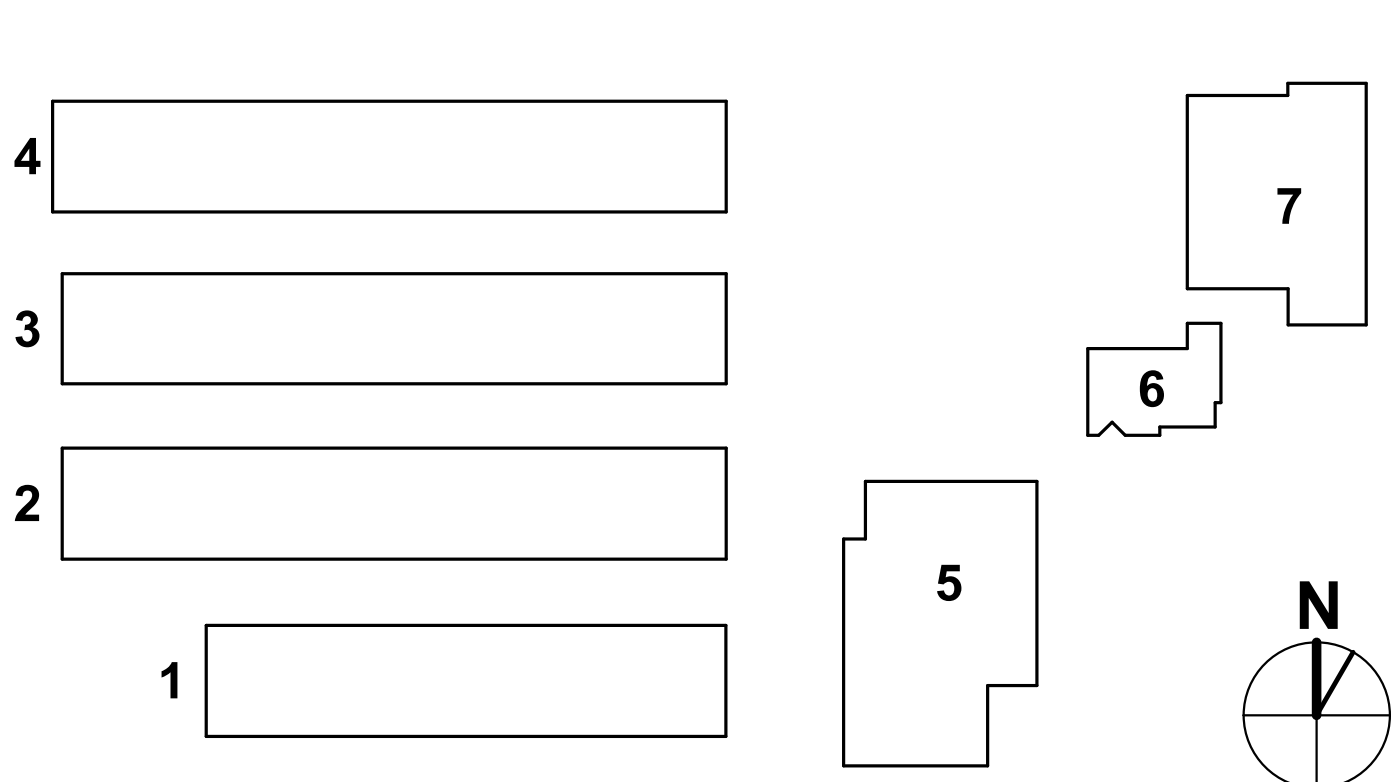
DEMOLITION FLOOR PLAN KEYNOTES

- 1 REMOVE (E) MECHANICAL UNIT AND ENCLOSURE. (E) DUCTWORK TO BE REUSED. S.M.D.
- 2 RECONFIGURE (E) WIREMOLD. SHORTEN CONFIGURATION TIGHT TO NEW ENCLOSURE AND PROVIDE END CAP. SEE NEW FLOOR PLAN FOR MORE INFORMATION.
- 3 (E) DRYWELL TO REMAIN. S.M.D.
- 4 (E) LOUVER ABOVE TO REMAIN.
- 5 REMOVE (E) MECHANICAL EQUIPMENT. S.M.D.
- 6 SALVAGE (E) DOOR STOP.
- 7 CUT AND PREP OPENING FOR NEW LOUVER.
- 8 REMOVE (E) GYP. BD. CEILING AS REQUIRED FOR EXHAUST FAN INSTALLATION. S.M.D.

GRAPHIC KEY

- EXISTING WALL TO REMAIN.
- EXISTING STOREFRONT OR WINDOW TO REMAIN.

BUILDING KEY

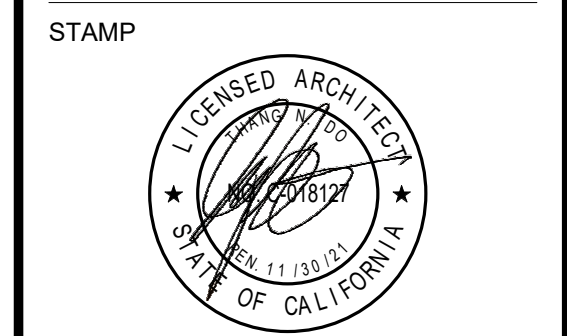


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PROJECT
COLLEGE PARK
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT
CONSULTANT



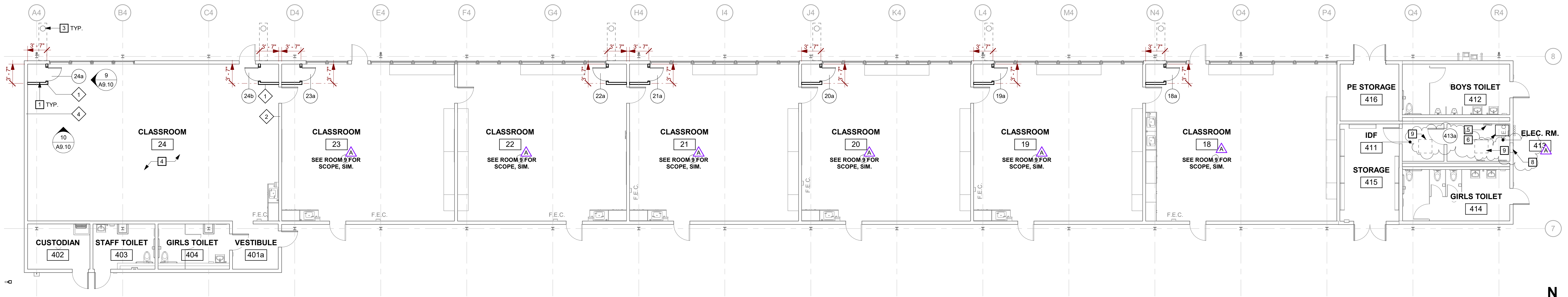
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1 Addendum 1 11/24/2021

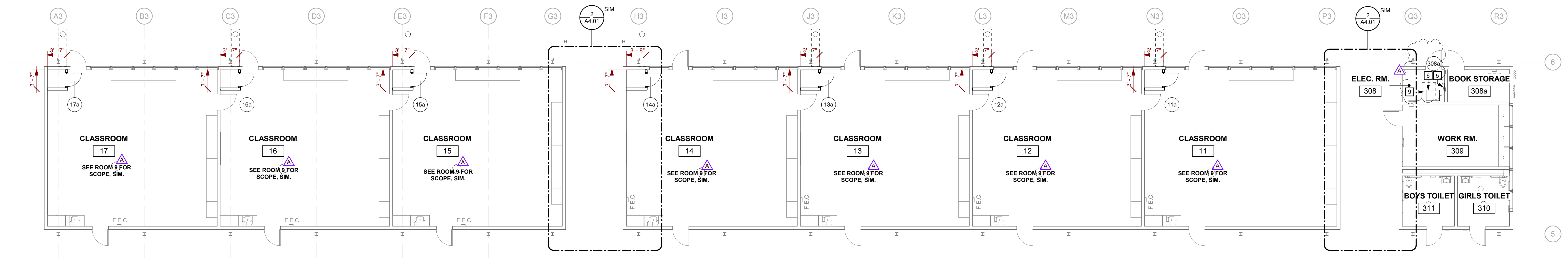
MILESTONES
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BACKCHECK 10/08/2021

SHEET
DEMOLITION
FLOOR PLANS -
WINGS 2, 3, & 4

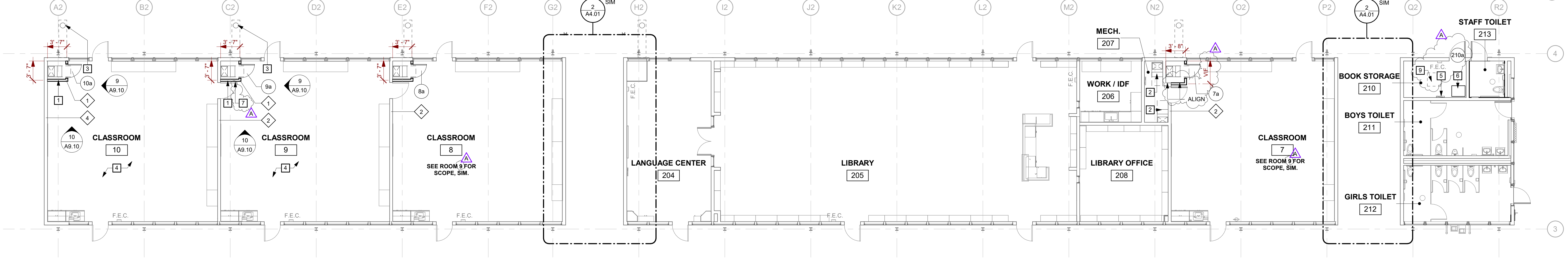
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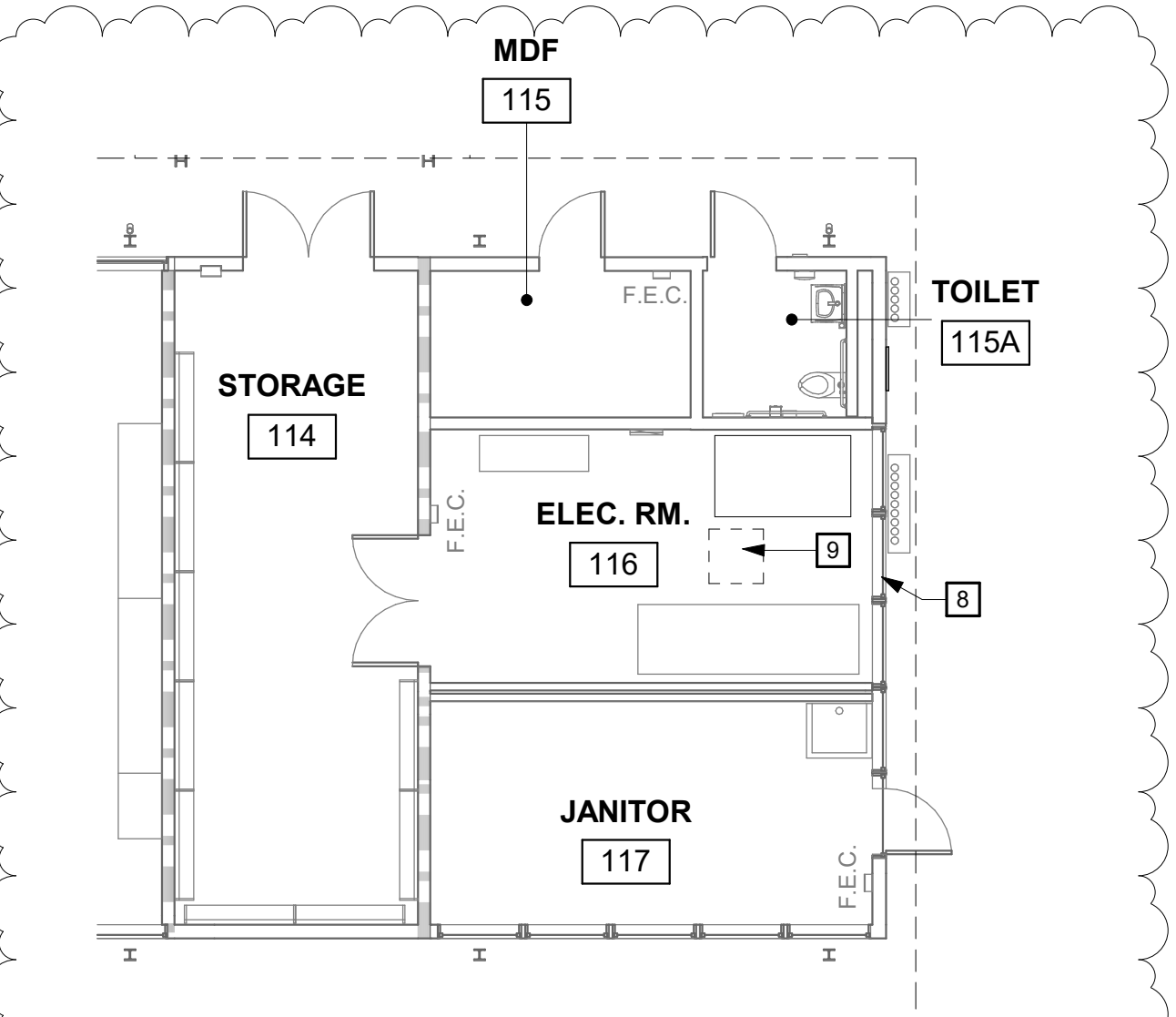
1 NEW FLOOR PLAN - WING 4
SCALE: 1/8" = 1'-0"



2 NEW FLOOR PLAN - WING 3
SCALE: 1/8" = 1'-0"



3 NEW FLOOR PLAN - WING 2
SCALE: 1/8" = 1'-0"



4 PARTIAL NEW PARTIAL FLOOR PLAN - WING 1
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF MECHANICAL AND ELECTRICAL WORK.
- DIMENSIONS FOR EXISTING BUILDING ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY PRIOR TO START OF CONSTRUCTION.
- REMOVE AND REPLACE (E) WALL BASE AS REQUIRED FOR NEW CONSTRUCTION. PROVIDE NEW WALL BASE AT ALL REMOVED CASEWORK, NEW PARTITION WALLS, OR PATCHED FLOORING.
- RECONFIGURE A.C.T. GRID TIGHT TO NEW MECHANICAL ENCLOSURE WALL FINISH. PROVIDE NEW LAY IN CEILING TILES AT RECONFIGURED AREA. AREA CUT OR ALTERED IN EACH ROOM SHALL NOT EXCEED 10 PERCENT OF THE ENTIRE CEILING AREA.
- PATCH AND PAINT WALL AT REMOVED CASEWORK, REMOVED WALL MOUNTED BOARDS, OR RECONFIGURED RACEWAY.
- SCRIBE FINISHES TIGHT TO ADJACENT CONDITIONS INCLUDING BUT NOT LIMITED TO WALL FINISHES, WINDOWS, CURTAIN RAILS, AND DUCTWORK.

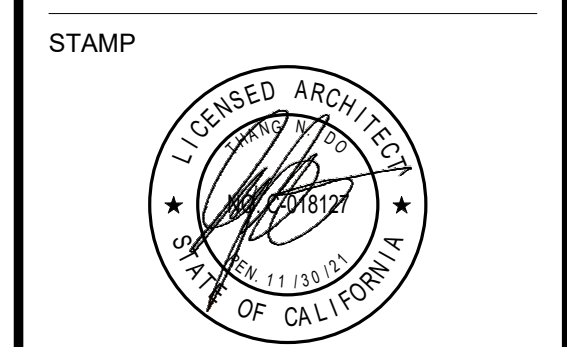
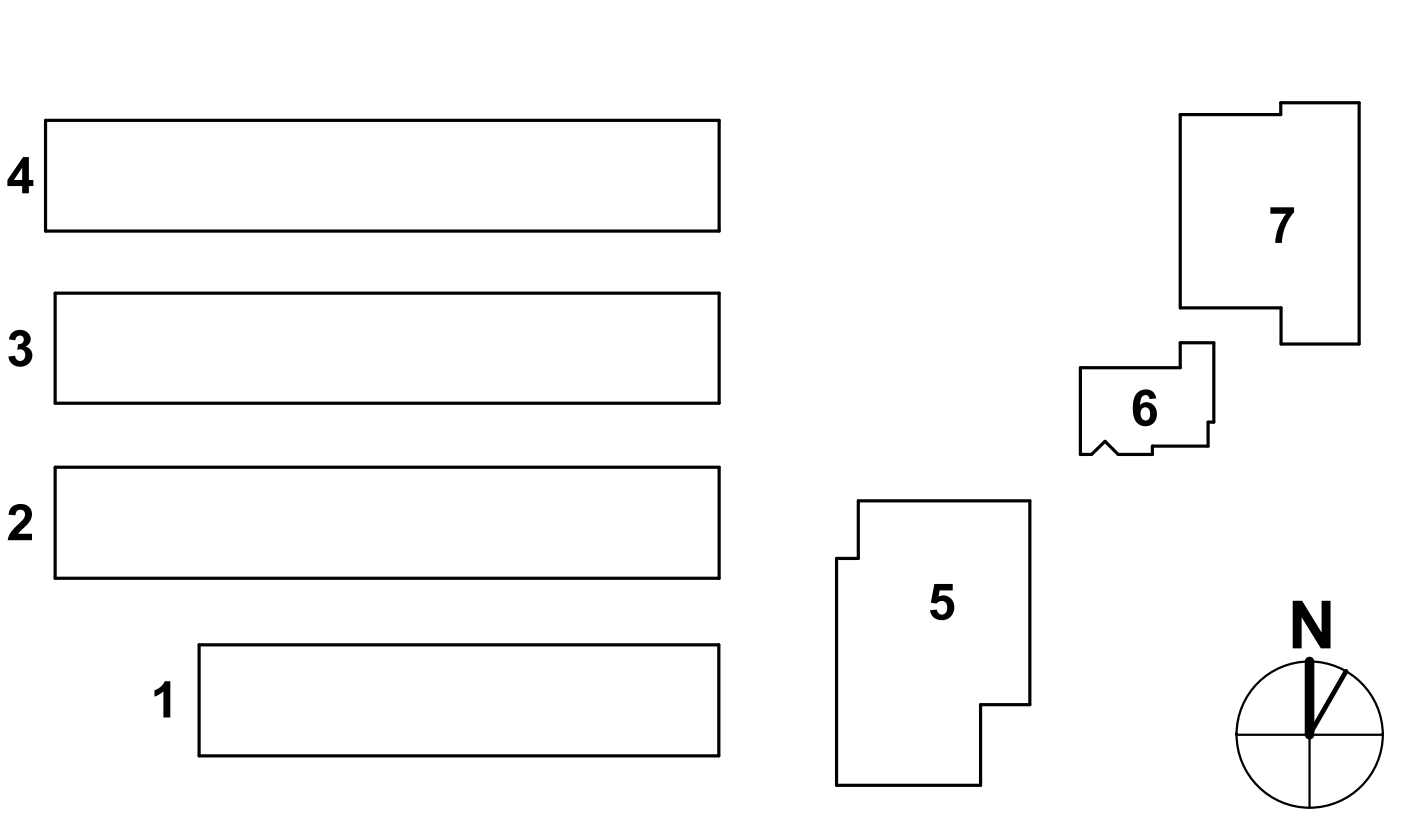
NEW FLOOR PLAN KEY NOTES

- FULL HEIGHT FRAMED MECHANICAL ENCLOSURE. MAINTAIN MIN. INTERIOR CLR. PER DETAIL 16A9.10. PATCH ADJACENT FINISHES INCLUDING BUT NOT LIMITED TO WALLS AND CEILINGS. RECONFIGURE A.C.T. GRID AND REPLACE ACOUSTICAL TILES. V.I.F. FREE AND FIXED END OF GRID AND REPLACE IN KIND. SEE DETAILS 8A9.10, 11A9.10, & 12A9.10.
- MECHANICAL UNIT, S.M.D.
- (E) DRYWELL TO REMAIN, S.M.D.
- REFER TO 11A4.01 FOR TYPICAL REFLECTED CEILING PLAN, REMOVE AND REINSTALL (E) ACOUSTICAL CEILING TILES ABOVE AS REQUIRED FOR CONSTRUCTION ACCESS INCLUDING BUT NOT LIMITED TO ELECTRICAL ROUTINGS, MECHANICAL DUCTWORK ANCHORAGE, BLOCKING FOR ROOFTOP PLATFORMS, DO NOT ALTER SUSPENDED A.C.T. GRID.
- ELECTRICAL PANEL, PROVIDE BACKING, S.E.D.
- TRANSFORMER, S.E.D.
- REINSTALL (E) DOOR STOP.
- 12"x14" LOUVER @ 12" A.F.F.
- PATCH AND PAINT GYP. BD. CEILING ADJACENT EXHAUST FAN, S.M.D.

GRAPHIC KEY

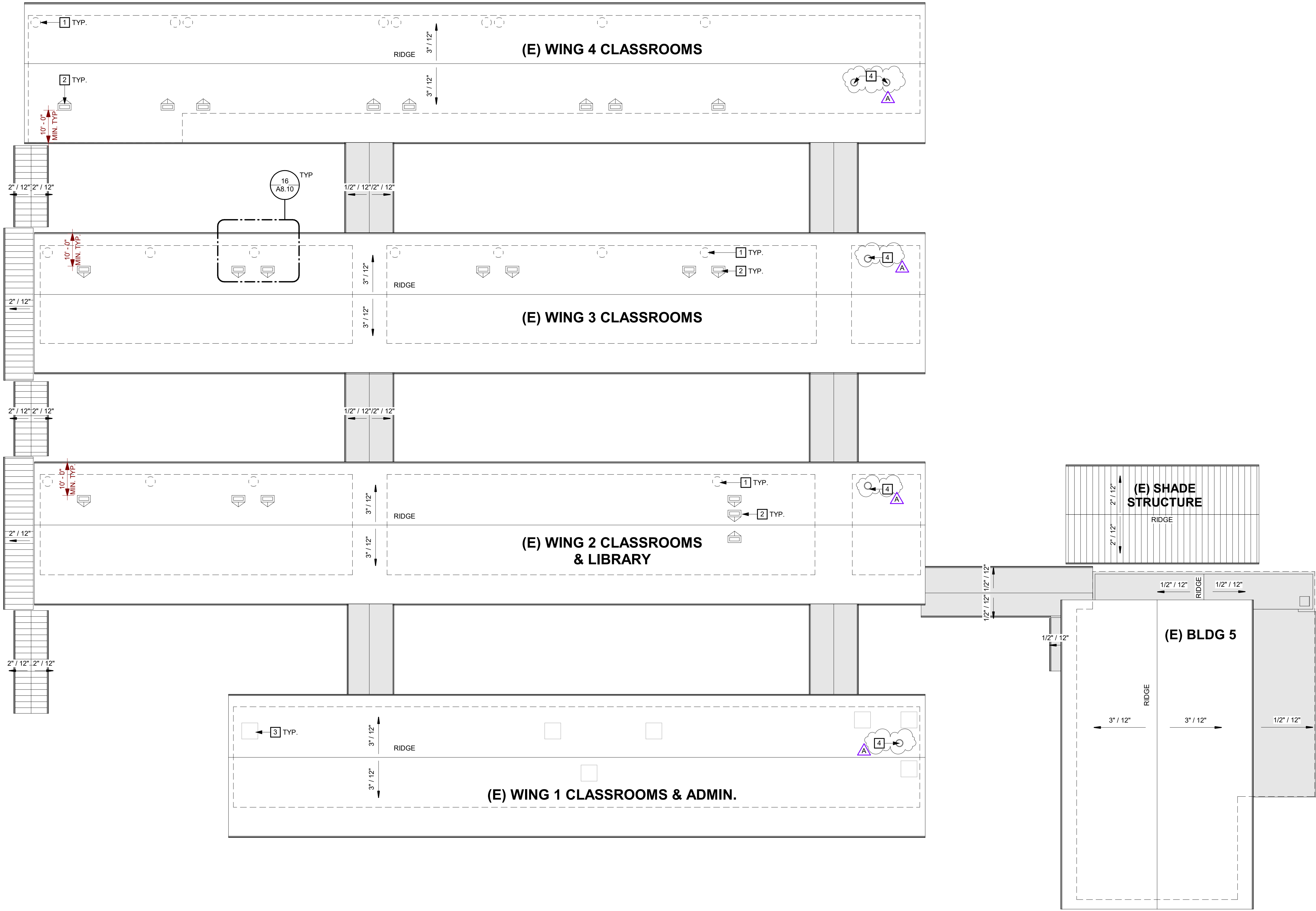
- WALL TYPES:
- EXISTING NONRATED WALL TO REMAIN.
 - WALL TYPE. REFER TO SHEET A9.10 FOR WALL TYPE DESCRIPTION, TYP.
 - STUD WALL.

BUILDING KEY



REVISIONS	No.	Description	Date
	1	Addendum 1	11/24/2021

MILESTONES	DATE
DD	
90% CD	
DSA SUB	05/26/2021
BACKCHECK	10/08/2021



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

GENERAL SHEET NOTES

- A 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.

ROOF PLAN KEYNOTES

- 1 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 MIT CRICKET. S.M.D. AND SEE DETAIL 10/A8.10. REMOVE (E) ROOFING TO SUBSTRATE FOR CONSTRUCTION ACCESS.
- 3 (E) MECHANICAL EQUIPMENT
- 4 EXHAUST FAN SEE 10/A8.10 SIM. S.M.D. REMOVE (E) ROOFING TO SUBSTRATE AND PREP OPENING AS REQUIRED FOR NEW WORK.

GRAPHIC KEY

- (E) ASPHALT SHINGLE, CLASS C MINIMUM
- (E) SINGLE PLY ROOFING, CLASS C MINIMUM
- (E) METAL ROOFING
- OUTLINE OF WALL BELOW

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PROJECT

COLLEGE PARK
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT

STAMP



STATE

DSA FILE NUMBER

41-26

APPL #

01-119530

REVISIONS

No.	Description	Date
1	Addendum 1	11/24/2021

MILESTONES

DD	
90% CD	
DSA SUB	05/26/2021
BACKCHECK	10/08/2021

SHEET

PARTIAL SITE
ROOF PLAN

DATE 11/24/2021

JOB # 2021005.01

SHEET # AD1-
A5.01

#3 @ 18" O.C. EA. WAY
IMBEDDED @ MID POINT OF
SLAB (2" MIN. COVERAGE).

CONCRETE FINISH,

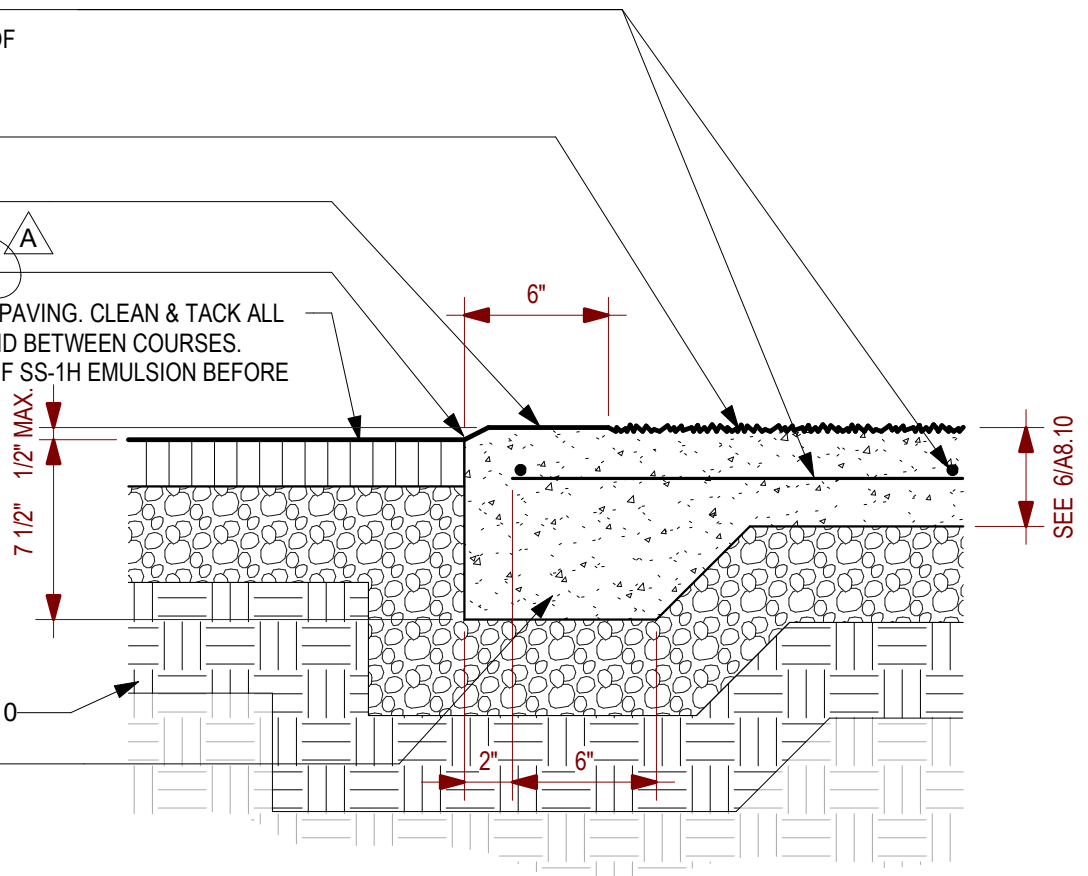
SMOOTH TROWELED
BORDER AND EDGES.

1:2 BEVELED EDGE, TYP.

3" ASPHALTIC CONCRETE PAVING. CLEAN & TACK ALL
SIDES OF EXCAVATION AND BETWEEN COURSES.
SPRAY AN APPLICATION OF SS-1H EMULSION BEFORE
PLACING ASPHALT.

AT FIRE LANE, V.I.F.
SUBGRADE ASSEMBLY.
REPLACE ASSEMBLY IN
KIND AT 95% RELATIVE
COMPACTION, TYP. AT
ALL OTHER LOCATIONS,
SUBGRADE PER 6 / A8.10

CONCRETE SLAB.



9

ASPHALT/CONCRETE JOINT

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



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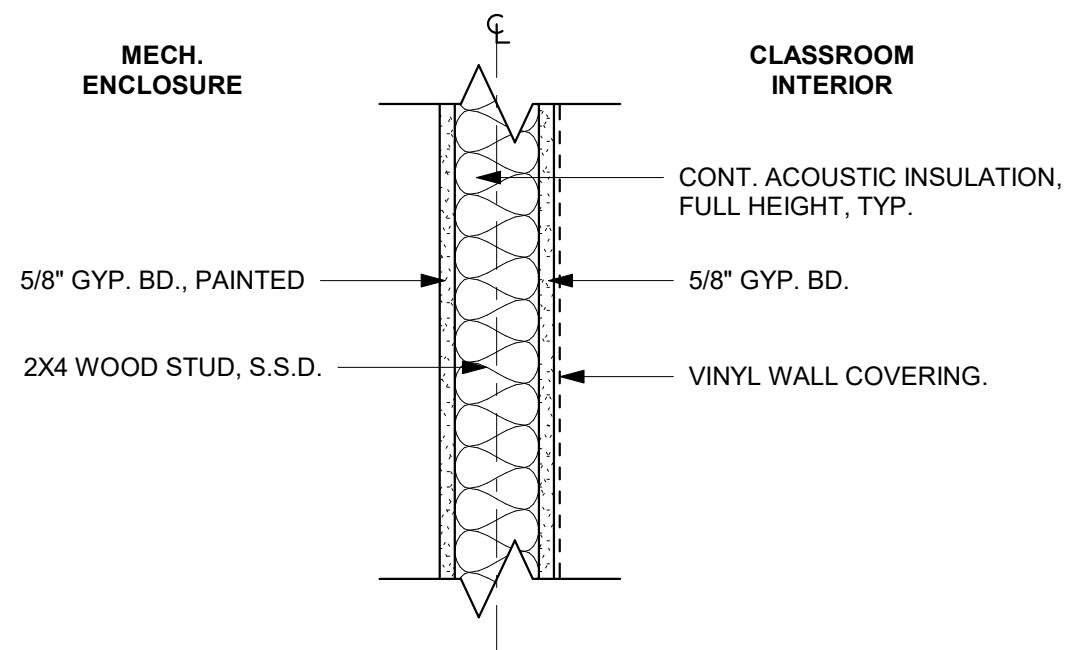
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COLLEGE PARK ELEMENTARY SCHOOL -
HVAC REPLACEMENT
SAN MATEO-FOSTER CITY SCHOOL DISTRICT

FILE NO.: 41-26
APPL NO.: 01-119530
JOB NO. 2021005.01
DATE 11/24/2021

SHEET

AD1-A8.10

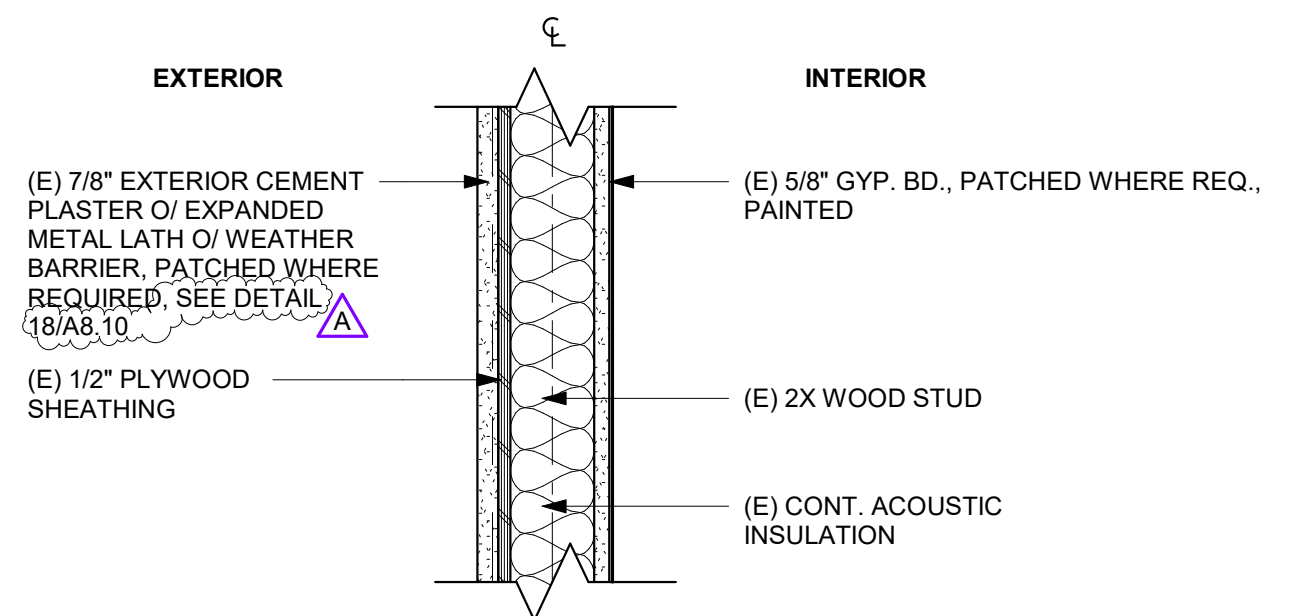


NOTE:
SEE DETAIL 6/A9.10 FOR TYPICAL SOUND TREATED NONRATED WALL.

1

WALL TYPE - MECHANICAL ENCLOSURE

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



3

(E) WALL TYPE - CEMENT PLASTER / GYP. BD.

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



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SAN MATEO-FOSTER CITY SCHOOL DISTRICT

FILE NO.: 41-26

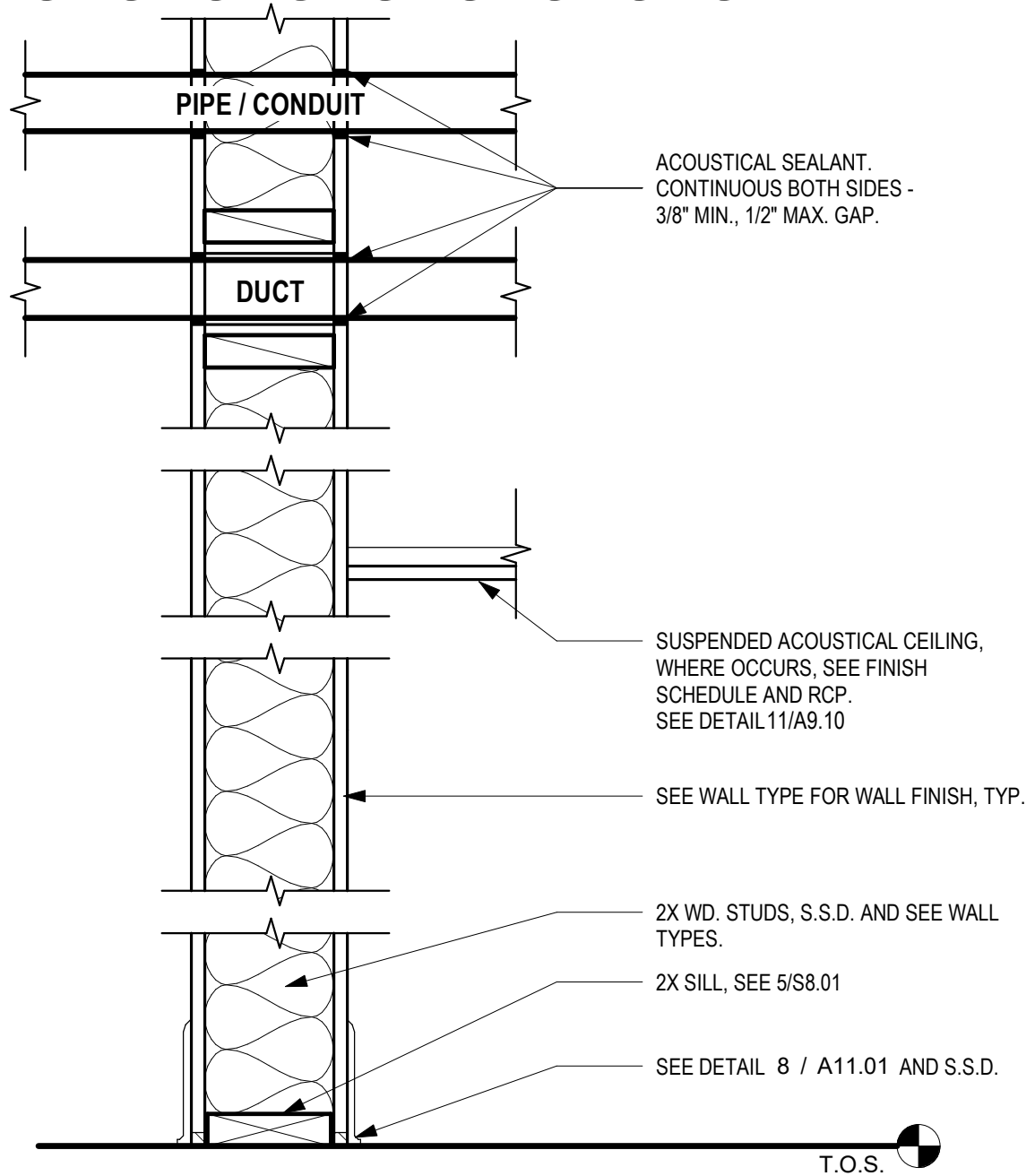
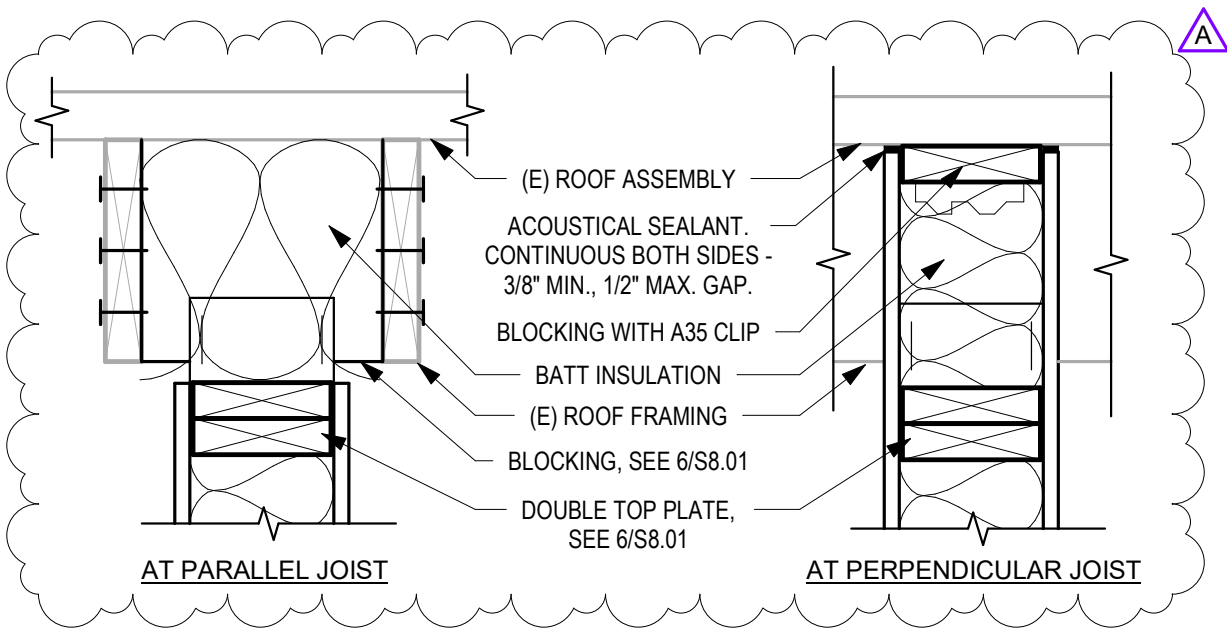
APPL NO.: 01-119530

JOB NO. 2021005.01

DATE 11/24/2021

SHEET

AD1-A9.10A




- NOTES:**
1. FOR RECESSED ACCESSORIES OR CABINETS, PROVIDE BLOCKING, GYPSUM BOARD AND ACOUSTICAL SEALANT SIMILAR TO DETAIL AT DUCT.

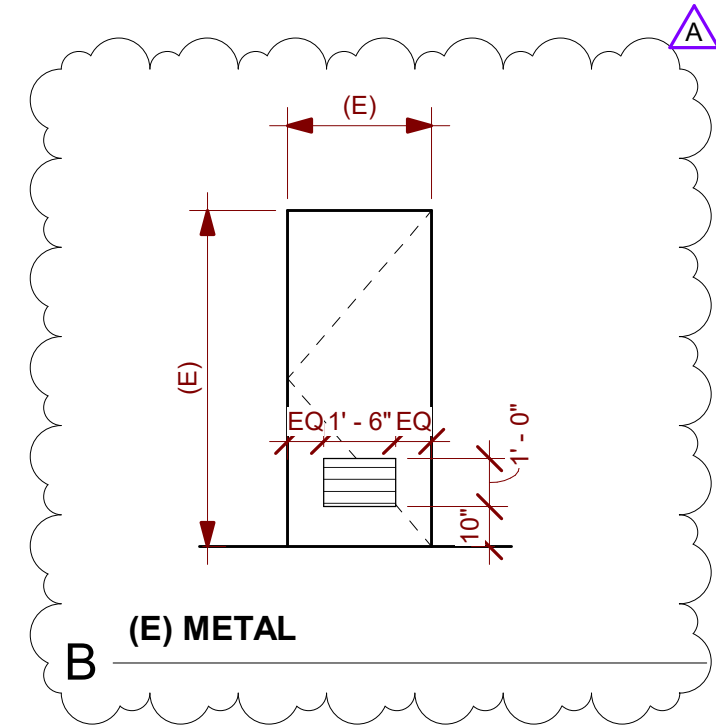
6 TYPICAL SOUND TREATED NONRATED WALL

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



		COLLEGE PARK ELEMENTARY SCHOOL - HVAC REPLACEMENT	
		SAN MATEO-FOSTER CITY SCHOOL DISTRICT	
FILE NO.:	41-26	SHEET	
APPL NO.:	01-119530		
JOB NO.	2021005.01		
DATE	11/24/2021		
387 S. 1st Street, Suite 300 San Jose, CA., 95113		tel: (408) 300 - 5160 fax: (408) 300 - 5121	
		AD1-A9.10B	

DOOR SCHEDULE												
DOOR ID	OPENING SIZE		DOOR		FRAME		DETAILS				HARDWARE GROUP	COMMENTS
	WIDTH	HEIGHT	TYPE	FINISH	TYPE	FINISH	HEAD DETAIL	JAMB-1 DETAIL	JAMB-2 DETAIL	SILL DETAIL		
7a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
8a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
9a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
10a	2' - 6"	7' - 0"	A	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	
12a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
13a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
14a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
15a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
16a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	10/A10.02	11/A11/01	4/A11.01	01	
17a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
18a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
19a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
20a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
21a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
22a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
23a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
24a	2' - 6"	7' - 0"	A	P-2	F1	P-3	11/A11.01	11/A11.01	11/A11/01	4/A11.01	01	
210a	3' - 0"	7' - 0"	B	-	-	-	-	-	-	-	-	1
308a	3' - 0"	7' - 0"	B	-	-	-	-	-	-	-	-	1
413a	3' - 0"	7' - 0"	B	-	-	-	-	-	-	-	-	1



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

DOOR SCHEDULE COMMENTS

1

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



aedis architects	COLLEGE PARK ELEMENTARY SCHOOL - HVAC REPLACEMENT	
	SAN MATEO-FOSTER CITY SCHOOL DISTRICT	
387 S. 1st Street, Suite 300 San Jose, CA., 95113	FILE NO.:	41-26
	APPL NO.:	01-119530
	JOB NO.	2021005.01
tel: (408) 300 - 5160 fax: (408) 300 - 5121		DATE 11/24/21
		AD-A11.01

AIR DISTRIBUTION SCHEDULE						
TAG	MANUFACTURER	MODEL NO.	DESCRIPTION	BORDER TYPE	MOUNTING DETAIL	NOTES
HSR-1	TITUS	350RL	HIGH SIDEWALL RETURN	TYPE 1	8MP6.01	1,2
EG-1	TITUS	8R	EXHAUST GRILLE	LAY-IN	10MP6.01	1

1. PRIME AND PAINT PER ARCHITECT'S INSTRUCTIONS. REGISTER COLOR SELECTED BY ARCHITECT.
2. PROVIDE WITH AIRSAN COMPACT DUCT SILENCER.

ROOF EXHAUST FANS SCHEDULE												
TAG	MANUFACTURER	MODEL NO.	AREA SERVED	AIRFLOW CFM	ESP IN. W.G.	FAN RPM	SOUND POWER SONES	MOTOR		WEIGHT LBS	MOUNTING DETAIL	NOTES
								HP/ WATTS	V/ PH			
REF-1-1	GREENHECK	G-098-VG	ELEC. RM 116	450	0.25	1125	6.0	1/4	115/ 1	45	9MP6.01	1, 2
REF-2-1	GREENHECK	G-070-VG	BOOK STORAGE 210	250	0.25	1479	4.1	1/15	115/ 1	45	9MP6.01	1, 2
REF-3-1	GREENHECK	G-070-VG	ELEC. RM 308	250	0.25	1479	4.1	1/15	115/ 1	45	9MP6.01	1, 2
REF-4-1	GREENHECK	G-098-VG	ELEC. RM 413	450	0.25	1125	6.0	1/4	115/ 1	45	9MP6.01	1, 2
REF-4-2	GREENHECK	G-070-VG	IDF 411	250	0.25	1479	4.1	1/15	115/ 1	45	9MP6.01	1, 2

1. PROVIDE WITH UL LISTING, FAN MOUNTED SPEED CONTROL, BACKDRAFT DAMPER, BIRDSCREEN, AND ROOF CURB.
2. PROVIDE WITH LINE VOLTAGE TSTAT.

△

CLASSROOM SPLIT SYSTEM HEAT PUMPS SCHEDULE																		
TAG	MANUFACTURER BASIS OF DESIGN	MODEL	BUILDING/WING	LOCATION	COOLING	HEATING	AIRFLOW CFM	OUTSIDE AIR CFM	REFRIGERANT PIPING		SEER	HSPF	ELECTRICAL			WEIGHT LBS	MOUNTING DETAIL	NOTES
					TOTAL MBH	TOTAL MBH			LIQUID	GAS			V/PH	MCA	MCCP			
FC-7	SAMSUNG	AM054TNZDCHIAA	WING A	CLASSROOM 7	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-7	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-7A	SAMSUNG	AM054TNZDCHIAA		MECH 207	53	61	1160	450	3/8"	3/4"	-	-	208/1	2.6	15	164	2MP6.01	2, 3, 4, 6, 7, 8
HP-7A	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-7B	SAMSUNG	AM054TNZDCHIAA		MECH 207	53	61	1160	450	3/8"	3/4"	-	-	208/1	2.6	15	164	2MP6.01	2, 3, 4, 6, 7, 8
HP-7B	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-8	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 8	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-8	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-9	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 9	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-9	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-10	SAMSUNG	AM054TNZDCHIAA	WING 3	CLASSROOM 10	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-10	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-11	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 11	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-11	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-12	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 12	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-12	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-13	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 13	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-13	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-14	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 14	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-14	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-15	SAMSUNG	AM054TNZDCHIAA	WING 4	CLASSROOM 15	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-15	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-16	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 16	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-16	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-17	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 17	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-17	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-18	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 18	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-18	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-19	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 19	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-19	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-20	SAMSUNG	AM054TNZDCHIAA	WING 4	CLASSROOM 20	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-20	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-21	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 21	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-21	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-22	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 22	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-22	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-23	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 23	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-23	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-24A	SAMSUNG	AM054TNZDCHIAA		CLASSROOM 24	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-24A	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		
FC-24B	SAMSUNG	AM054TNZDCHIAA	WING 4	CLASSROOM 24	53	61	1155	450	3/8"	3/4"	-	-	208/1	2.6	15	164	1MP6.01	2, 3, 4, 6, 7, 8
HP-24B	SAMSUNG	AM053TXMDCHIAA		ROOF	-	-	3/8"	3/4"	17.5	10	208 / 1	34	50	212	3MP6.01	1		

1. SPLIT SYSTEM SHALL BE ABLE TO OPERATE AT 94% HEATING CAPACITY DOWN TO 32°F OUTDOOR AMBIENT TEMPERATURE.
2. CFM BASED ON 0.55 ESP.
3. PROVIDE WITH SAMSUNG MM-A00UN 24VAC THERMOSTAT ADAPTER AND 24VAC TRANSFORMER.
4. PROVIDE DELTA CONTROLS THERMOSTAT WITH CO2 SENSOR. SEE MP5.01 FOR CONTROLS.

5. NOT USED
6. PROVIDE WITH 4" MERV-13 FILTERS WITH FILTER ACCESS PANEL.
7. FAN COIL SHALL BE ADJUSTED TO OPERATE AT CONSTANT SPEED AT INDICATED CFM.
8. NOT USED

△

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PROJECT

**COLLEGE PARK
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT**

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT

DEC 08/NOV 21/03

CYPRESS
Engineering Group

HVAC, Plumbing, Fire Protection
Building, Life Safety, Mechanical
Environmental Compliance
Training & Technical Support
531 E. 1st St., Suite A3
Monterey, CA 93940
cypresseng.com

STAMP



STATE

DSA FILE NUMBER

41-26

APPL #

01-119530

REVISIONS

No. Description Date

△ Addendum 1 11/24/2021

MILESTONES

DD

90% CD

DSA SUB

05/26/2021

BACKCHECK

09/30/2021

SHEET

**SCHEDULES-
MECHANICAL**

DATE 11/24/2021

JOB # 2021005.01

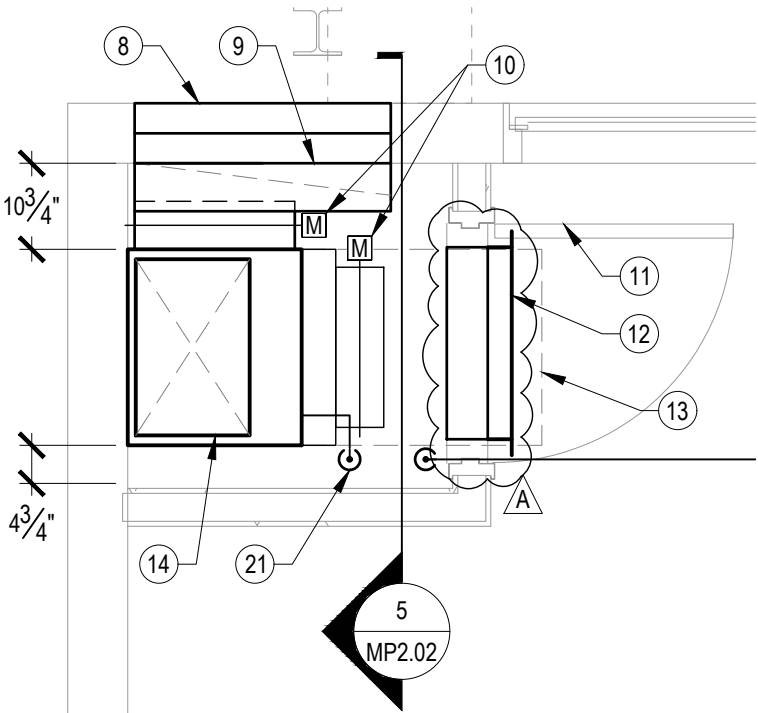
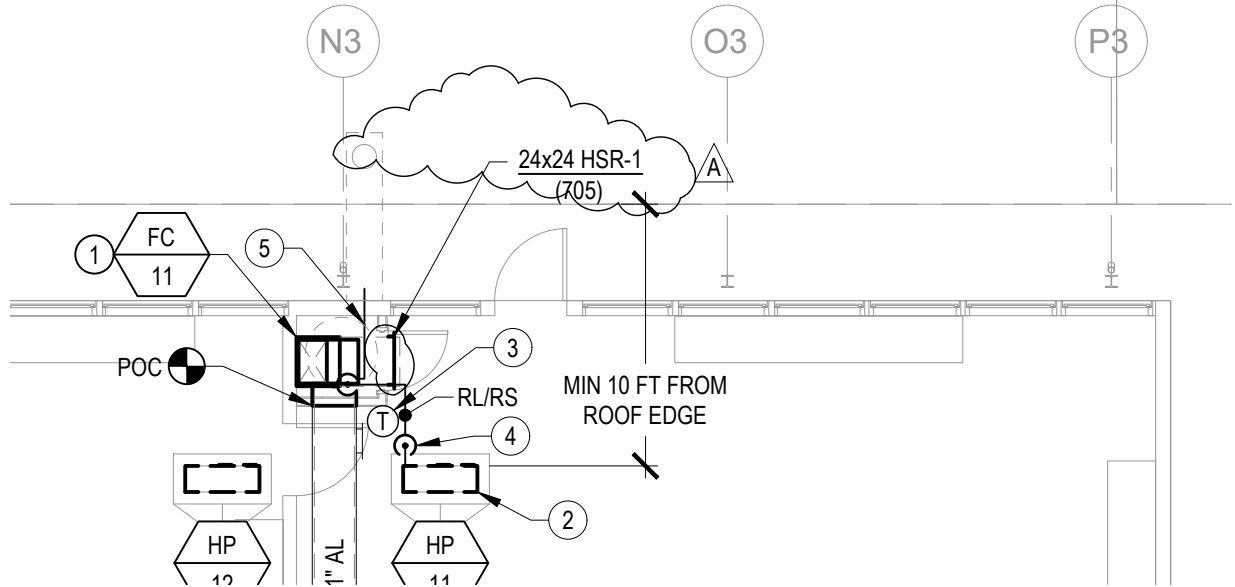
SHEET # AD1-
MP0.02

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
2. 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.
3. FOR CLARITY, (E) GAS MAINS ARE NOT SHOWN ON THIS PLAN. SEE MP2.01.
4. PAINT ALL EXPOSED DUCTWORK, AND REGISTERS TO MATCH ADJACENT.
5. SEE DETAIL 5/MP6.01 FOR PIPE SUPPORT ON ROOF.
6. CLEAN ALL (E) DUCTWORK AND REGISTERS PER SPECIFICATION 23 01 30.
7. PAINT ALL EXPOSED CONDENSATE PIPING AT EXTERIOR TO MATCH ADJACENT.

NEW SHEET NOTES

12. 24"x24" RETURN REGISTER HSR-1 ABOVE ENCLOSURE DOOR. INSTALL WITH GRILLE SILENCER.



4 FLOOR PLAN - ENCLOSURE
MP2.02 SCALE: NONE

2 PARTIAL FLOOR PLAN - WING 3 - NEW - MECHANICAL & PLUMBING
MP2.02 SCALE: 1/8" = 1'-0"



CEG JOB NO: 21033

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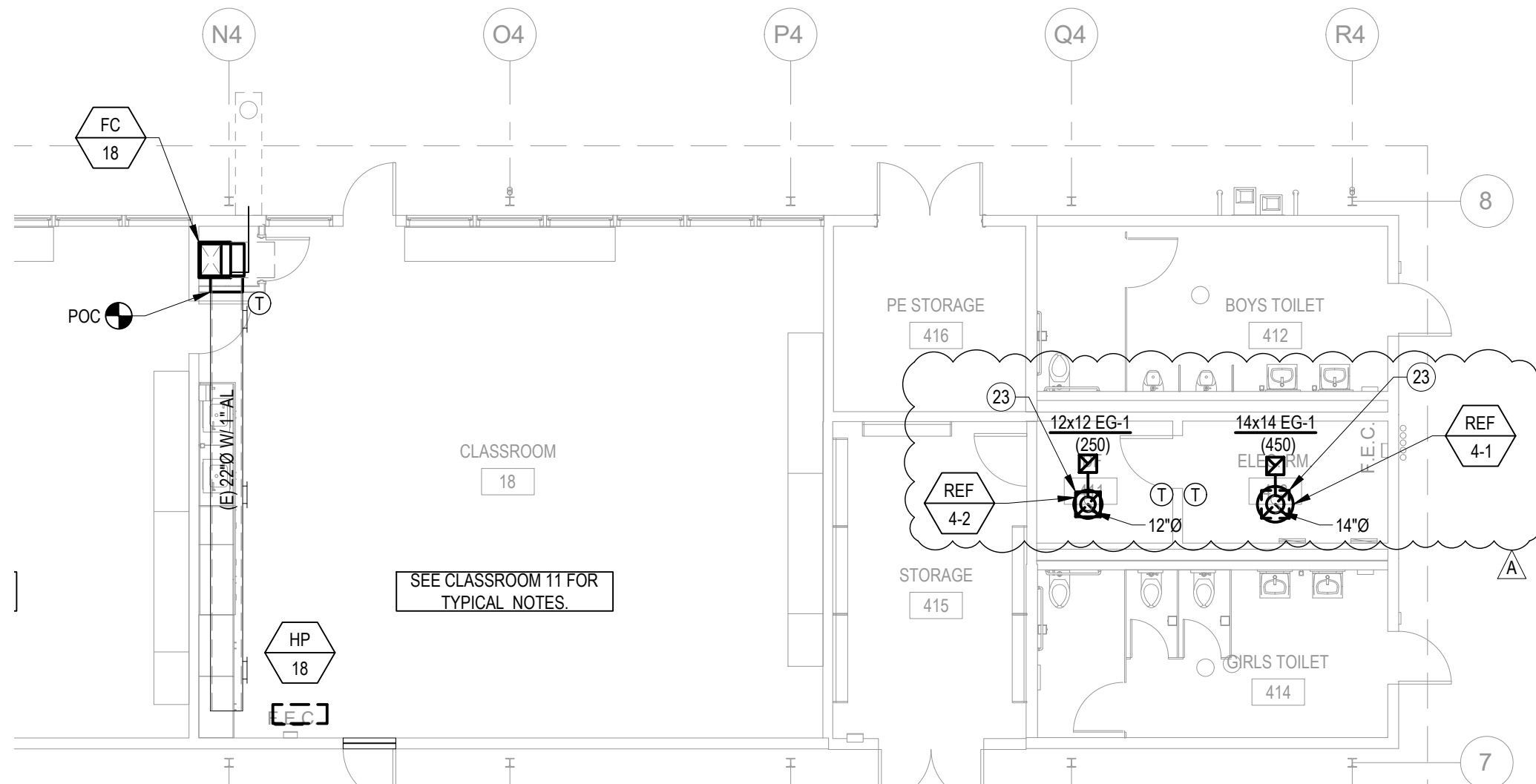
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		SAN MATEO-FOSTER CITY SCHOOL DISTRICT	
FILE NO.: 41-26		SHEET	
APPL NO.: 01-119530		REF. SHEET MP2.02	
JOB NO. 2021005.01		AD1-MP2.02a	
387 S. 1st Street, Suite 300 San Jose, CA., 95113		DATE 11/24/2021	

NEW SHEET NOTES

23. INSTALL EXHAUST FAN ON ROOF.



1 FLOOR PLAN - WING 4 - NEW - MECHANICAL & PLUMBING
MP2.02 SCALE: 1/8" = 1'-0"

CEG JOB NO: 21033



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COLLEGE PARK ELEMENTARY SCHOOL -
HVAC REPLACEMENT

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

FILE NO.: 41-26
APPL NO.: 01-119530
JOB NO.: 2021005.01
DATE 11/24/2021

SHEET
REF. SHEET MP2.02
AD1-MP2.02b

PROJECT

COLLEGE PARK
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

SAN MATEO-FOSTER CITY
SCHOOL DISTRICT

CONSULTANT

DECISION NO. 2103
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STATE

DSA FILE NUMBER 41-26
APPL # 01-119530

REVISIONS

No.	Description	Date
1	Addendum 1	11/24/2021

MILESTONES

DD	
90% CD	
DSA SUB	05/26/2021
BACKCHECK	09/30/2021

SHEET

**PARTIAL FLOOR
PLAN - NEW -
WINGS 1, 2, & 3 -
MECHANICAL &
PLUMBING**

DATE 11/24/2021

JOB # 2021005.01

SHEET # **AD1-
MP2.03**

1 PARTIAL FLOOR PLAN - WING 3 - NEW - MECHANICAL & PLUMBING

AD1-MP2.03 SCALE: 1/8" = 1'-0"



2 PARTIAL FLOOR PLAN - WING 2 - NEW - MECHANICAL & PLUMBING

AD1-MP2.03 SCALE: 1/8" = 1'-0"



3 PARTIAL FLOOR PLAN - WING 1 - NEW - MECHANICAL & PLUMBING

AD1-MP2.03 SCALE: 1/8" = 1'-0"



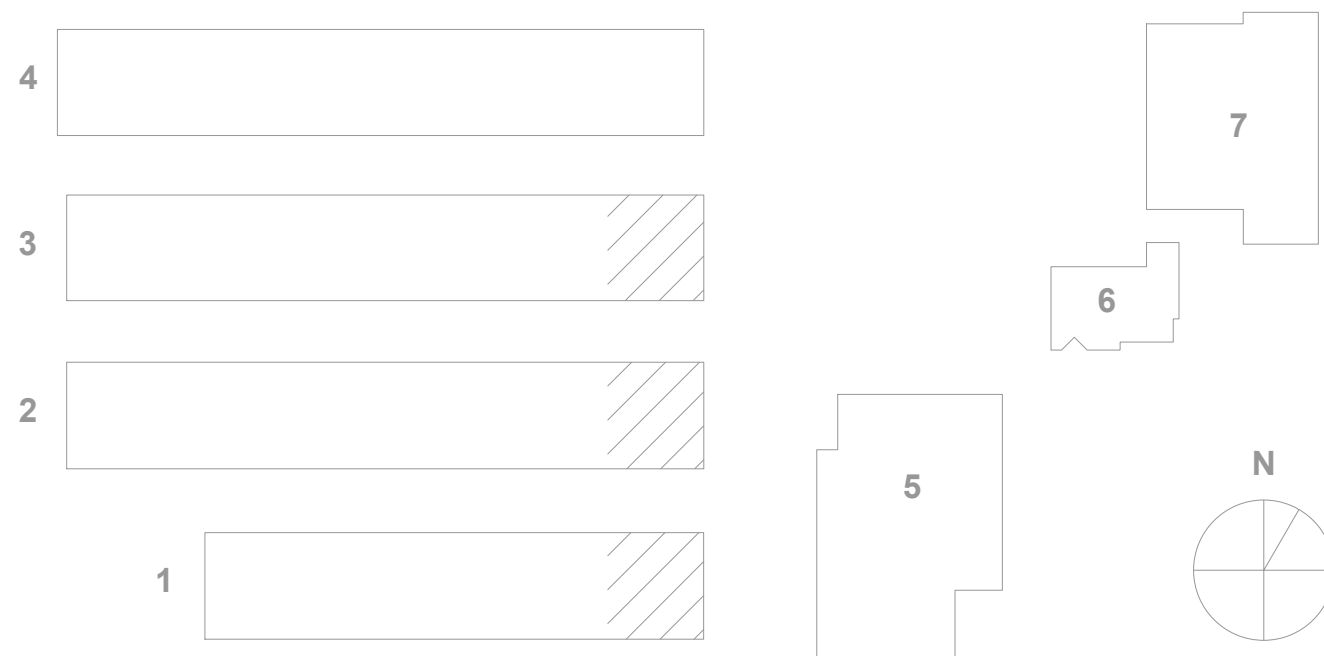
NEW SHEET NOTES

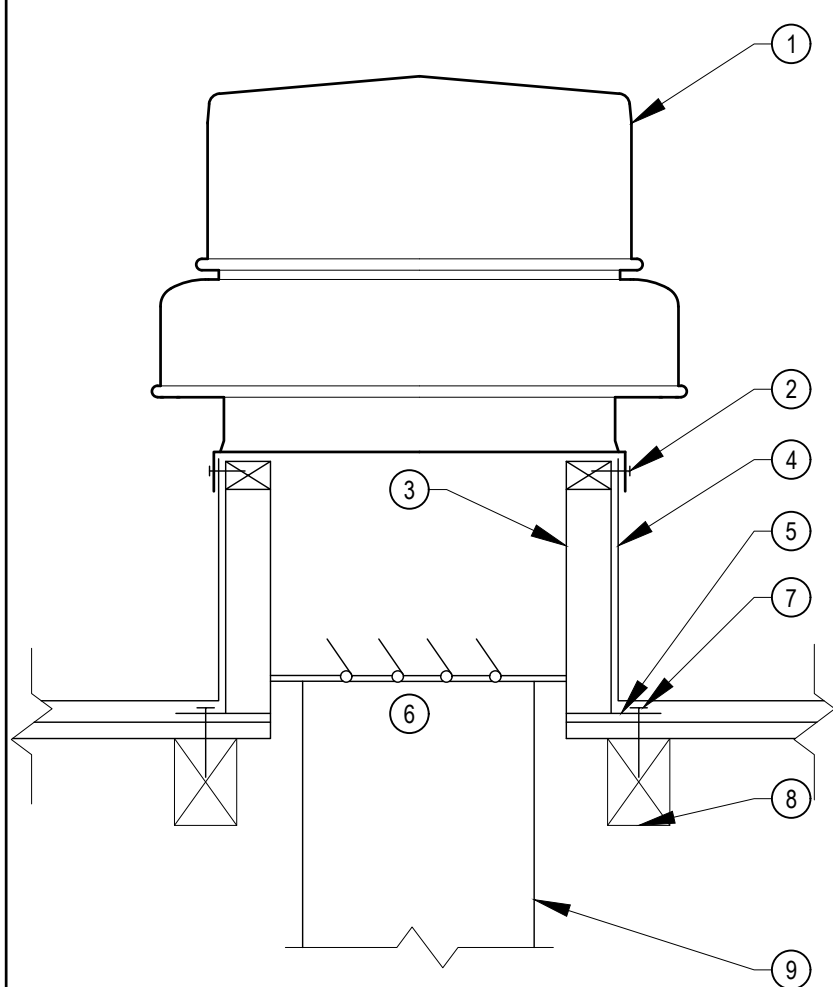
1. INSTALL EXHAUST FAN ON ROOF.

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING AND NEW BUILDING STRUCTURES, SERVICES AND OWNER'S PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION.
2. 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.
3. FOR CLARITY, (E) GAS MAINS ARE NOT SHOWN ON THIS PLAN. SEE MP2.01.
4. PAINT ALL EXPOSED DUCTWORK, AND REGISTERS TO MATCH ADJACENT.
5. SEE DETAIL 5/MP6.01 FOR PIPE SUPPORT ON ROOF.
6. CLEAN ALL (E) DUCTWORK AND REGISTERS PER SPECIFICATION 23 01 30.

BUILDING KEY

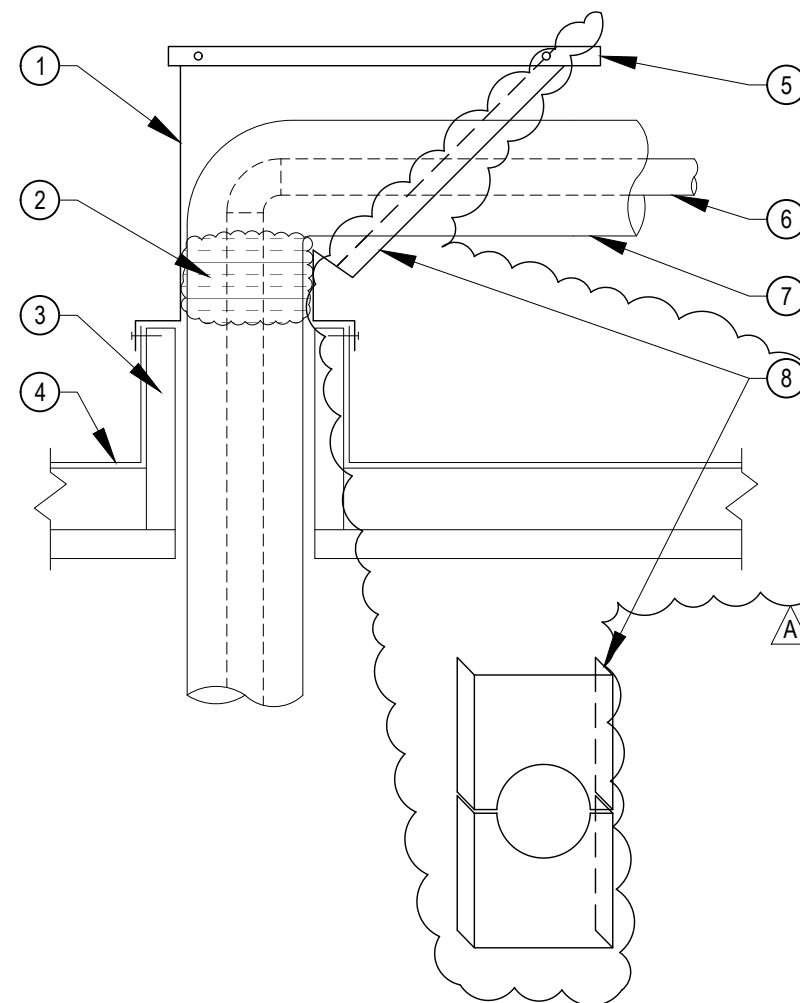




- **DETAIL NOTES:**
1. EXHAUST FAN.
 2. SECURE TO ROOF CURB WITH #12 SELF TAPPING SCREWS AT 12" ON CENTER. MINIMUM 2 PER SIDE.
 3. FACTORY CURB WITH NAILER.
 4. FOR ROOFING AND FLASHING, SEE ARCHITECT'S DRAWINGS.
 5. ROOF DECK.
 6. BACKDRAFT DAMPER.
 7. 3/8"Ø LAG SCREW THRU CURB AND ROOF WITH 3" MINIMUM EMBEDMENT INTO BLOCKING.
 8. 4x BLOCKING. SECURE TO STRUCTURE WITH SIMPSON HU44 HANGERS EACH END.
 9. DUCT SIZE PER PLAN

9 EXHAUST FAN MOUNTING

N.T.S.



- **DETAIL NOTES:**
1. GALVANIZED SHEET METAL ROOF JACK WITH CAP.
 2. FILL OPENING WITH FOAM.
 3. ROOF OPENING. SEE STRUCTURAL DRAWING FOR CURB, SEE ARCHITECT'S DRAWINGS FOR FLASHING.
 4. ROOFING.
 5. REMOVABLE SHEET METAL COVER ATTACHED WITH TWO (2) #8 SELF TAPPING SCREWS EACH SIDE, PAINTED.
 6. PIPE.
 7. PIPE INSULATION.
 8. 2 PIECE 20 GA. GALVANIZED SHEET METAL COVER W/ 1-1/2" FLANGES ATTACHED W/ #12 SMS @4" O.C.

NOTES:

1. EXPOSED PIPING SHALL HAVE ALUMINUM JACKET.

4 PIPING ROOF JACK

N.T.S.



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HVAC REPLACEMENT

SAN MATEO-FOSTER CITY SCHOOL DISTRICT

FILE NO.: 41-26

APPL NO.: 01-119530

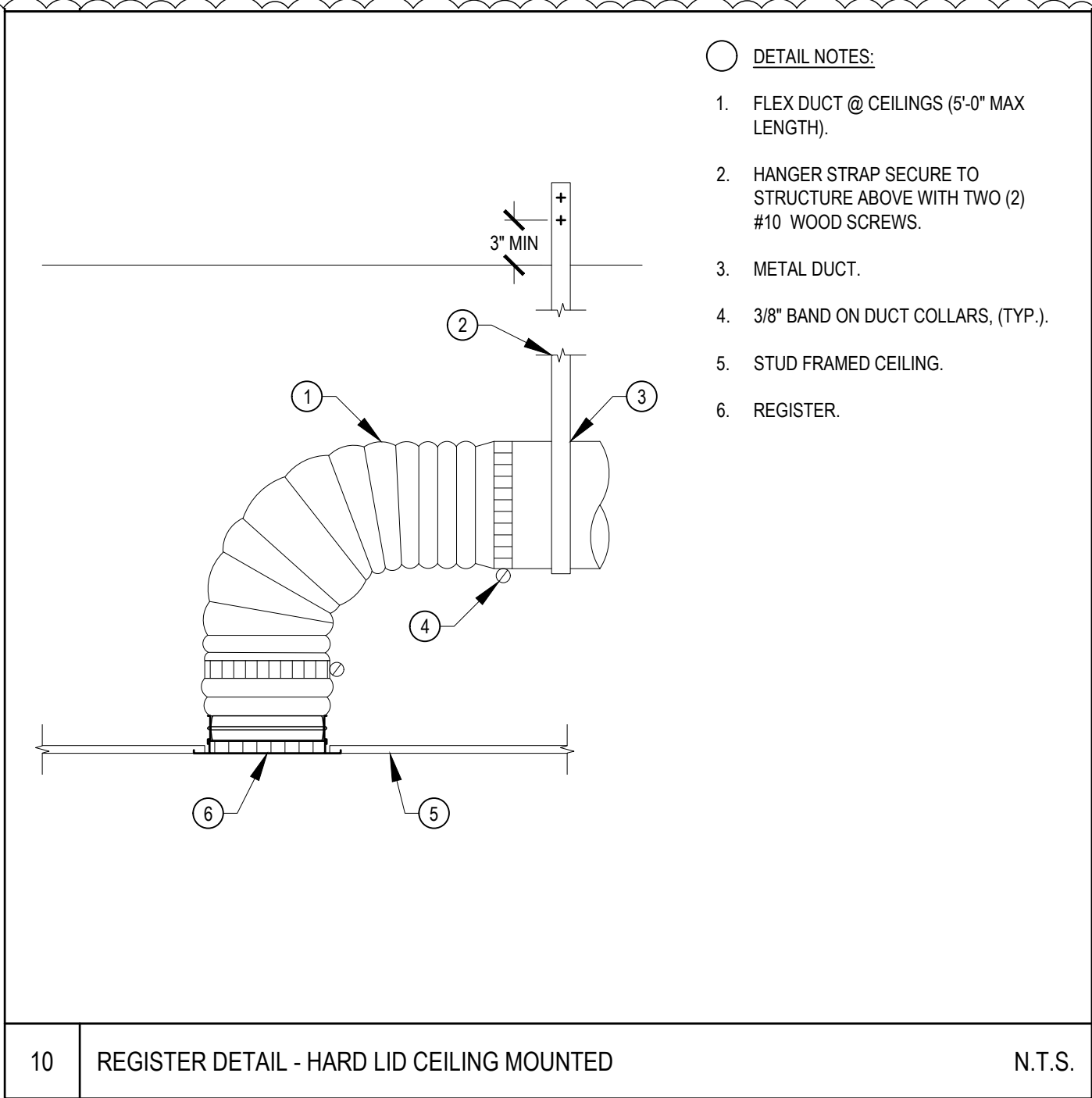
JOB NO. 2021005.01

DATE 11/24/2021

SHEET

REF. SHEET MP6.01

AD1-MP6.01a




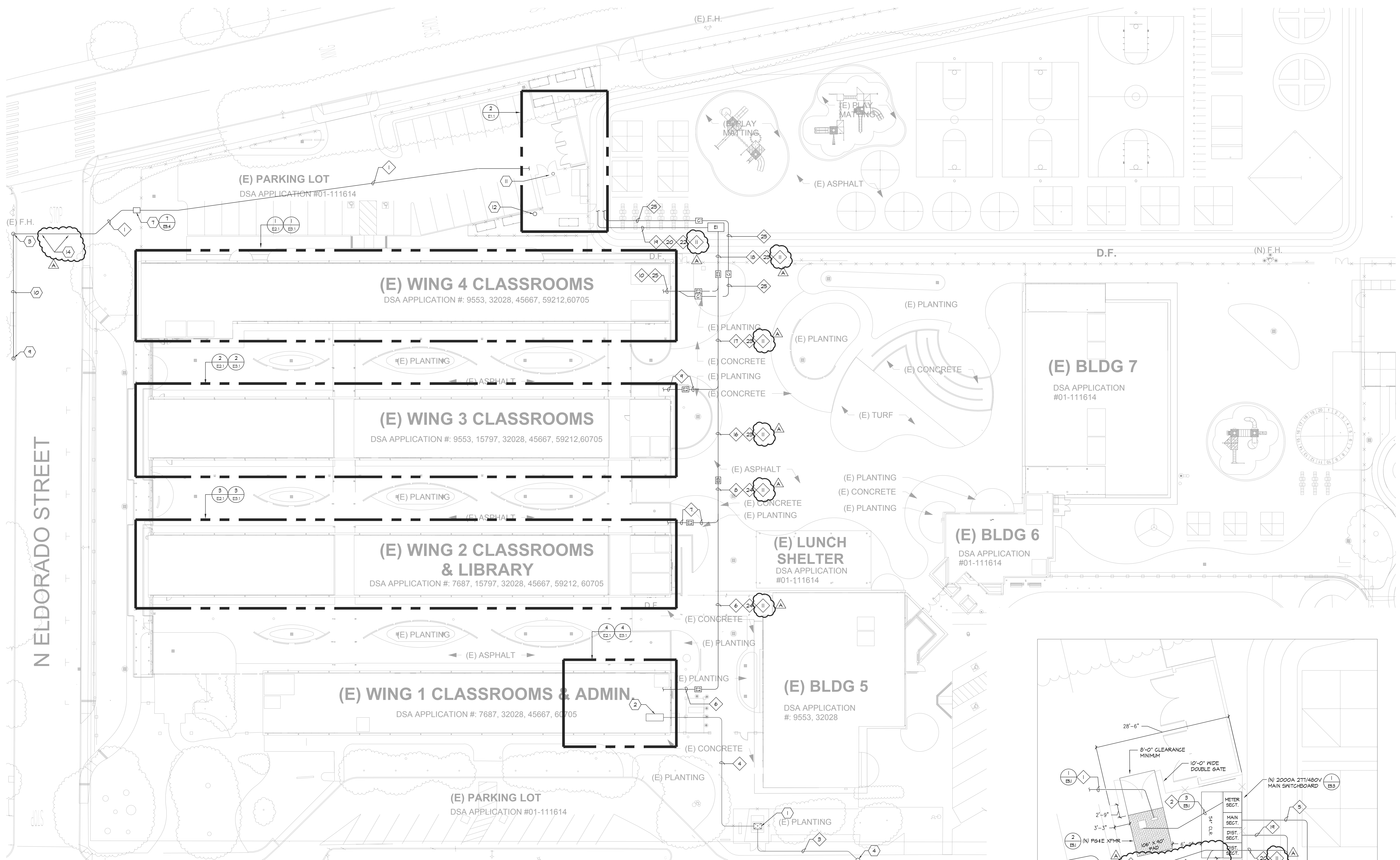
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		FILE NO.: 41-26	SHEET
		APPL NO.: 01-119530	REF. SHEET MP6.01
		JOB NO. 2021005.01	AD1-MP6.01b
		DATE 11/24/2021	



1 ELECTRICAL SITE PLAN

E1.1 SCALE: 1" = 20'-0"

GENERAL NOTES:

- CONTRACTOR SHALL COORDINATE UNDERGROUND REQUIREMENTS WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- 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.
- 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/CONDUITS/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.
- INSTALL P64E PRIMARY TRENCH PER 1/ ES.1.
- INSTALL P64E SECONDARY TRENCH PER 3/ ES.1.
- P64E TRANSFORMER PAD SHALL BE PER 2/ ES.1.
- ALL ON SITE TRENCH SHALL BE INSTALLED PER 3/ ES.4.
- SEE THE DEMO SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- SEE NEW SINGLE LINE DIAGRAM FOR FEEDER CABLE AND CONDUIT REQUIREMENTS.
- THE CONTRACTOR SHALL MANOEUVRE THROUGH THE ENTIRE P64E CONDUIT SYSTEM. COORDINATE WITH P64E FOR ADDITIONAL REQUIREMENTS AND PROCEDURES.

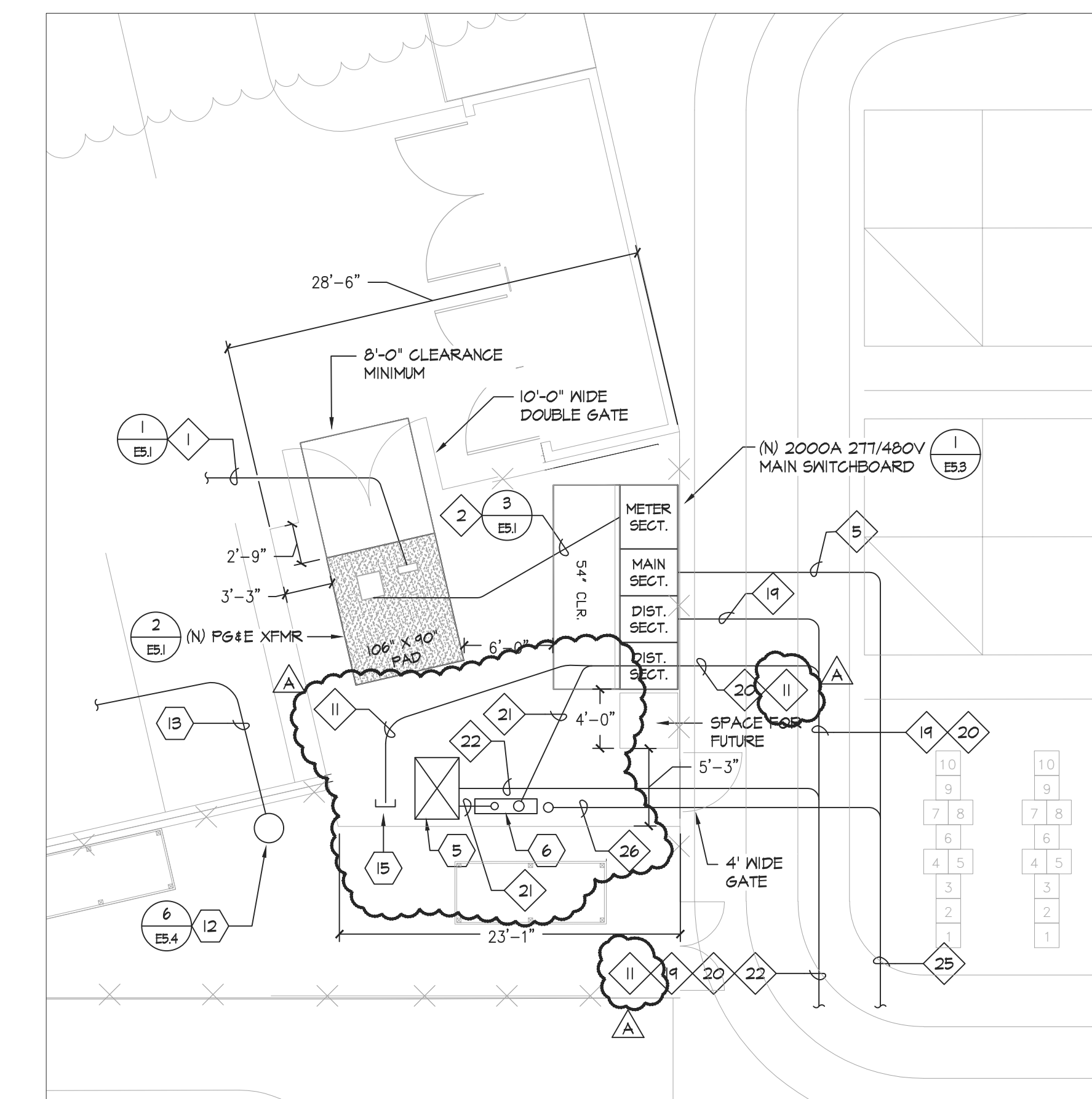
SHEET NOTES:

- EXISTING P64E TRANSFORMER TO BE REMOVED.
- EXISTING MAIN SWITCHBOARD TO BE CONVERTED TO DISTRIBUTION PANEL 'DP1'.
- NEW P64E UTILITY POLE WITH NEW RISER PROVIDED BY P64E.
- EXISTING P64E POLE WITH RISER.
- FUTURE PV DISTRIBUTION PANEL LOCATION. STUB CONDUIT INTO LOCATION OF CONDUIT FOR FUTURE GEAR.
- FUTURE PV DISCONNECT SWITCH LOCATION. STUB CONDUIT INTO LOCATION OF CONDUIT ENTRY FOR FUTURE SWITCH.
- NEW P64E IN-GRADE PULL BOX.
- STUB PV CONDUIT IN THIS LOCATION. CONDUIT TO BE STUBBED TO JUST OUTSIDE CONCRETE SIDEWALK.
- EXISTING P64E POLE TO REMAIN.
- NEW OVERHEAD PRIMARY PROVIDED BY P64E.
- EXISTING EXTERIOR POLE AND LIGHT FIXTURE FOR PARKING LOT TO BE RELOCATED. THE EXISTING RAISED POLE BASE TO BE DEMOLISHED AND REMOVED. EXISTING LIGHTING CIRCUITRY IS TO BE REPAIRED. CONTRACTOR IS RESPONSIBLE TO LOCATE AND PREPARE THE EXISTING UNDERGROUND CIRCUITRY TO BE INTERCEPTED. REMOVE THE EXISTING LIGHTING CIRCUITRY FROM THE AREA OF NEW WORK.

- TRENCHING OCCURS ACROSS THE CITY STREET. WHERE TRENCHING OCCURS WITHIN THE CITY RIGHT-OF-WAY, STEEL PLATES WILL BE PLACED AND SECURED OVER TRENCH AFTER EVERY CONSTRUCTION WORK DAY. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE CITY PERMITS, APPROVALS, PROVIDING TRAFFIC CONTROL, AND NECESSARY REPAIRS TO THE STREET AND SIDEWALKS PER THE CITY STANDARDS.
- STUB FUTURE EV CONDUIT AND CAP AT THIS APPROXIMATE LOCATION.

CONDUIT SCHEDULE:

- | | | |
|------------------------------------|--|------------------------------|
| 1 (N) (1) 4" - P64E PRIMARY | 13 NOT USED | 18 (N) (2) 2 1/2" - XFMR T1' |
| 2 (N) (1) 5" - P64E SECONDARY | 14 NOT USED | (N) (1) 2 1/2" - XFMR T2' |
| 3 (E) (1) 4" - P64E PRIMARY | 15 NOT USED | (N) (1) 3" - XFMR T3' |
| 4 (E) (5) 5" - P64E SECONDARY | 16 (N) (2) 2 1/2" - XFMR T1' | (N) (1) 3" - XFMR T4' |
| 5 (N) (1) 1" - P64E COMMUNICATIONS | 17 (N) (1) 2 1/2" - XFMR T1' | (N) (3) 4" - SPARE POWER |
| 6 (N) (2) 2 1/2" - XFMR T1' | 18 (N) (1) 2 1/2" - XFMR T2' | |
| 7 (N) (1) 2 1/2" - XFMR T2' | 19 (N) (1) 2" - FUTURE PV | |
| 8 (N) (2) 2 1/2" - XFMR T1' | 20 (N) (1) 4" - XFMR T3' (FUTURE) | |
| 9 (N) (1) 3" - XFMR T3' | 21 (N) (1) 2" - XFMR T6' (FUTURE) | |
| 10 (N) (1) 3" - XFMR T4' | 22 (N) (1) 2 1/2" - XFMR T1' (FUTURE) | |
| 11 (N) (1) 2" - EV FUTURE | 23 (N) (2) 2 1/2" - XFMR T1' | |
| 12 NOT USED | 24 NOT USED | |
| | 25 (N) (1) 1" - P64E COMMUNICATIONS | |
| | 26 (N) (1) 2" - FUTURE PV COMMUNICATIONS | |



2 ELECTRICAL SWITCHGEAR DIMENSIONS

E1.1 SCALE: 1/8" = 1'-0"

PULLBOX SCHEDULE:

- | | |
|---|---|
| 1 - NEW 4'-6"x8'-6" ELECTRIC / POWER PULLBOX WITH TRAFFIC RATED LID. LABEL LID 'POWER'. | 21 - NEW B2436 COMMUNICATIONS PULLBOX WITH TRAFFIC RATED LID. LABEL LID 'COMM'. |
| 2 - NEW B2436 ELECTRIC / POWER PULLBOX WITH TRAFFIC RATED LID. LABEL LID 'POWER'. | 22 - NEW B2436 COMMUNICATIONS PULLBOX WITH TRAFFIC RATED LID. LABEL LID 'COMM'. |
| 3 - NEW 3'-6" ELECTRIC / POWER PULLBOX WITH TRAFFIC RATED LID. LABEL LID 'POWER'. | 23 - NEW B2436 COMMUNICATIONS PULLBOX WITH TRAFFIC RATED LID. LABEL LID 'COMM'. |



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STATE
DSA FILE NUMBER 41-26
APPL # 01-119530

REVISIONS

No.	Description	Date
ADDENDUM 1		11/24/2021

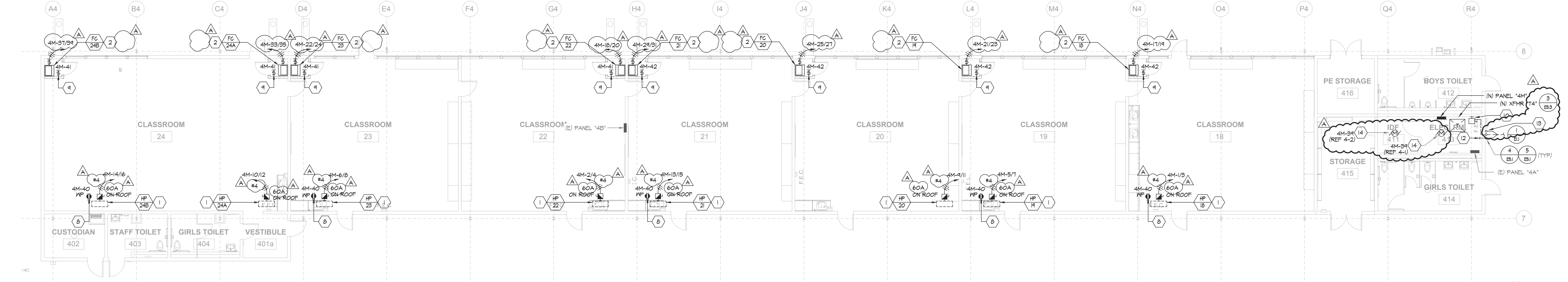
MILESTONES

DD	
90% CD	
DSA SUB	05/26/2021
BACKCHECK	10/07/2021
ADDENDUM 1	11/15/2021

SHEET

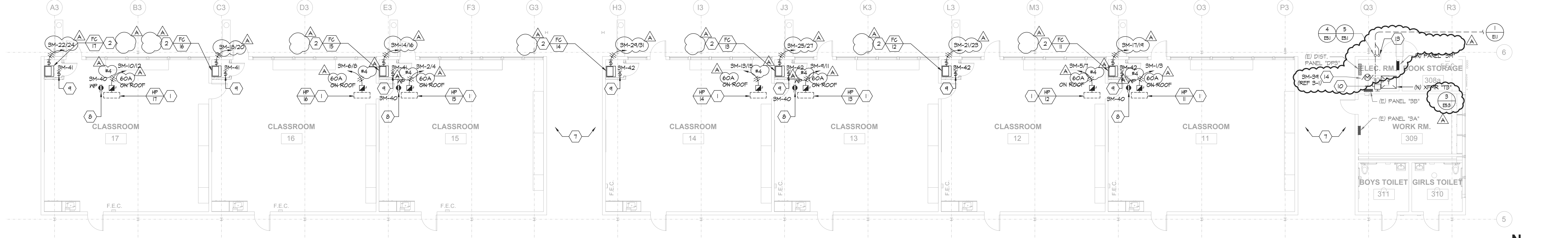
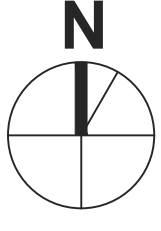
ELECTRICAL
NEW FLOOR
PLANS -
WINGS #1, #2, #3,
& #4

DATE 11/24/2021
JOB # 2021005.01
SHEET # AD-1
E3.1



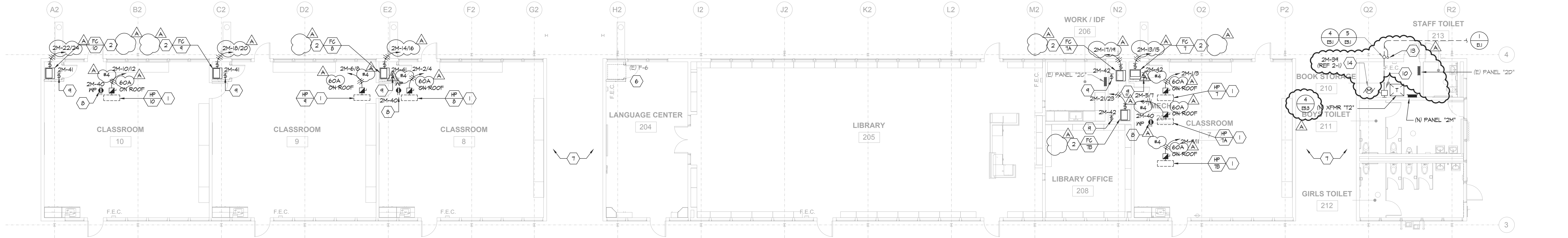
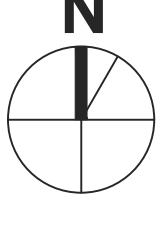
1 ELECTRICAL NEW FLOOR PLAN - WING #4

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



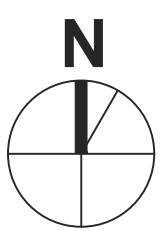
2 ELECTRICAL NEW FLOOR PLAN - WING #3

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



3 ELECTRICAL NEW FLOOR PLAN - WING #2

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



GENERAL NOTES:

- ALL CONDUITS SHALL BE ROUTED CONCEALED IN CEILINGS BELOW WHERE POSSIBLE. ALL EXPOSED CONDUITS SHALL BE PAINTED.
- CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND POINTS OF CONNECTION FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR. ADJUST LOCATION AND CONNECTION POINTS AS NEEDED.
- SEE PANEL SCHEDULES AND SINGLE LINE DIAGRAM FOR POWER CONNECTION REQUIREMENTS.
- COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- FUSED AND UNFUSED DISCONNECT SWITCHES SHALL BE 600V RATED, HEAVY DUTY CYCLE. FUSES FOR MECHANICAL UNITS SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATION.
- PROVIDE CONDUIT ROOF PENETRATIONS REQUIRED. COORDINATE ROOF PENETRATION LOCATIONS WITH MECHANICAL'S PIPING ROOF PENETRATIONS. ROOF PENETRATION SHALL BE PER DETAIL 4/MF6.01.

SHEET NOTES:

- NEW 60A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- NEW 30A-2P, NEMA-1, MOTOR-RATED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- NEW 30A-2P, NEMA-3R, FUSED DISCONNECT SWITCH FOR MECHANICAL UNIT.
- NOT USED.
- EXISTING MAIN SWITCHBOARD TO BE CONVERTED TO DISTRIBUTION PANEL.
- EXISTING MECHANICAL UNIT AND CONNECTIONS TO REMAIN.
- MOUNT CONDUIT ADJACENT TO CHASE AND ROUTE ACROSS THE HALLWAY.
- PROVIDE NEW WEATHERPROOF 6FCI RECEPTACLE. RECEPTACLE SHALL BE MOUNTED ON A WEATHERPROOF BOX WITH WHILE-IN-USE COVER. COVER SHALL BE INTERMATIC INF010MXD 'BOSS'.
- PROVIDE MOTOR RATED SWITCH AND 120V POWER FOR CONDENSATION PUMP.
- NEW 400A-3P, NEMA 1, UNFUSED DISCONNECT SWITCH.
- NEW 600A-3P, NEMA 1, UNFUSED DISCONNECT SWITCH.
- STUB COMMUNICATION CONDUITS INTO THE ROOM. PROVIDE END BUSHINGS FOR CABLE PROTECTION.

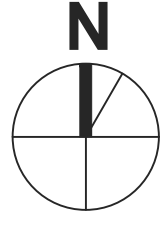
13 STUB FUTURE SOLAR CONDUIT 18" ABOVE GRADE AT THIS APPROXIMATE LOCATION AND GAP.

14 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.

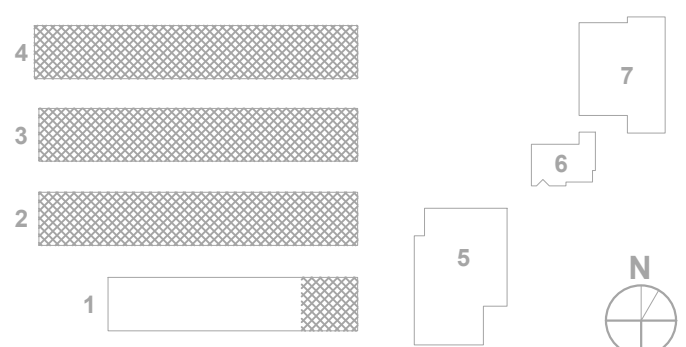


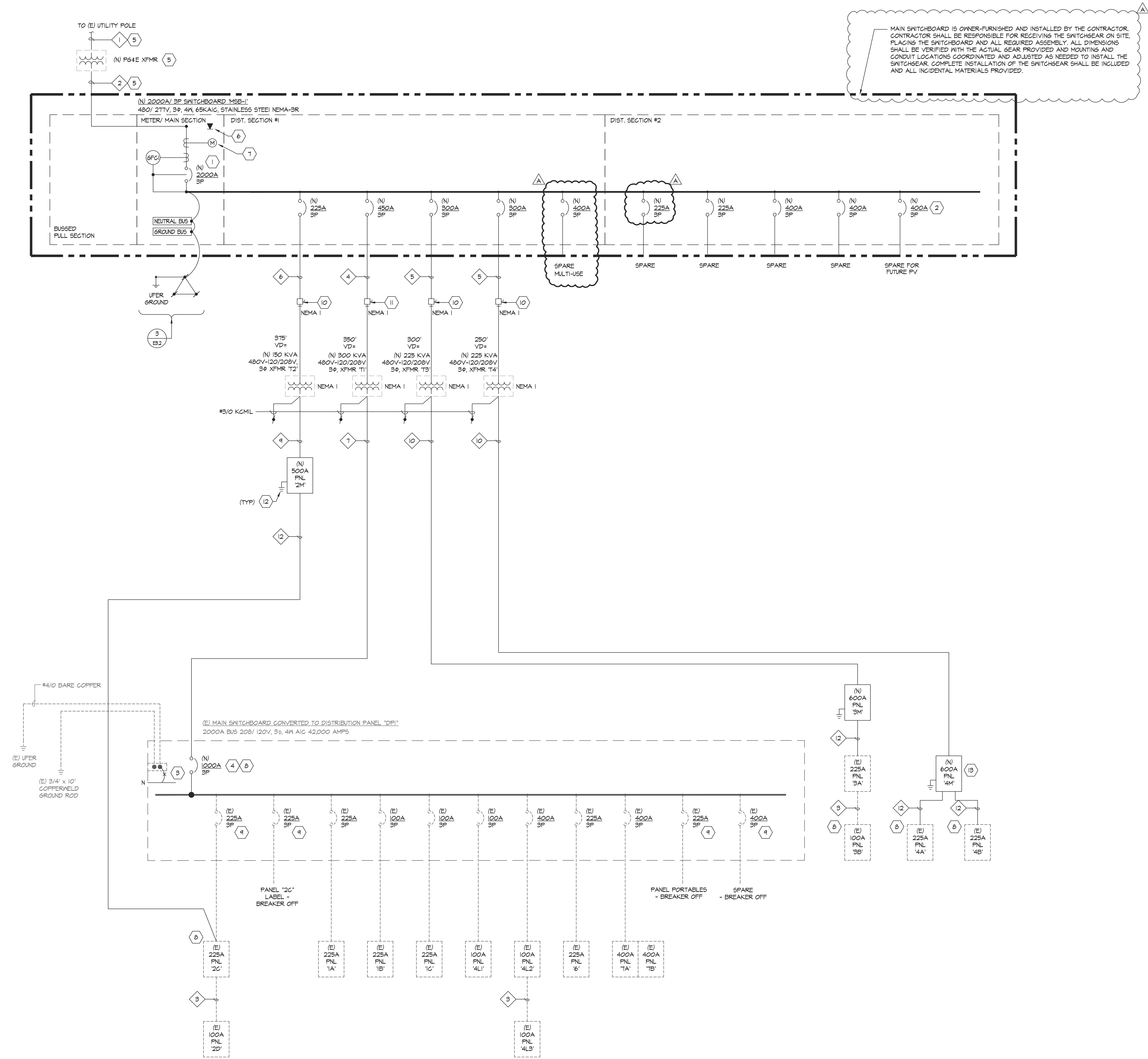
4 ELECTRICAL NEW FLOOR PLAN - WING #1

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



BUILDING KEY





GENERAL NOTES:

- SEE DETAIL 2/E3.2 FOR GROUNDING AT SWITCHBOARD ENCLOSURE REQUIREMENTS.
- SEE DETAIL 3/E3.2 FOR MAIN SWITCHBOARD GROUNDING REQUIREMENTS.
- SEE DETAIL 5/E3.2 FOR TRANSFORMER GROUNDING REQUIREMENTS.
- ALL TRANSFORMERS SHALL BE CLASS 1B5 INSULATION - COMPLETELY ENCLOSED EXCEPT FOR VENTILATION.
- SEE ENLARGED SWITCHGEAR PLAN FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL OBTAIN THE P64E SUBSTRUCTURE PACKAGE PRIOR TO ANY RELATED WORK. THE CONTRACTOR SHALL COORDINATE ALL P64E INSTALLATION REQUIREMENTS WITH P64E GREENBOOK AND P64E SUBSTRUCTURE PACKAGE.
- SEE THE ENLARGED SITE DEMO SITE PLAN AND DEMO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- PROVIDE THE REQUIRED ARC FLASH HAZARD WARNING LABEL TO MEET THE REQUIREMENTS OF CEC 110.16. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE MAINTENANCE SWITCH FOR ARC ENERGY REDUCTION TO MEET THE REQUIREMENTS OF CEC 240.81.

SHEET NOTES:

- MAIN BREAKER SHALL BE 6FCI PER NEG.
- PV BREAKER TO BE INSTALLED AT THE FURTHEST POINT ON THE BUS BAR.
- DISCONNECT THE EXISTING MAIN BONDING JUMPER FROM THE GROUND BUS TO THE NEUTRAL BUS.
- REMOVE EXISTING 2000A MAIN CIRCUIT BREAKER AND REPLACE WITH NEW 1000A MAIN CIRCUIT BREAKER AS REQUIRED TO CONVERT THE EXISTING MAIN SWITCHBOARD TO DISTRIBUTION PANEL (DPI). CONNECT NEW FEEDERS TO (DPI) AS REQUIRED.
- INSTALL PER P64E AND P64E GREENBOOK REQUIREMENTS.
- PROVIDE TWO DEDICATED TELEPHONE LINES FROM THE MAIN SWITCHBOARD TO THE TELEPHONE MPOE PER P64E REQUIREMENTS. MOUNT TELEPHONE OUTLETS INSIDE METER SECTION FOR THE MAIN SWITCHBOARD BEHIND THE SWITCHBOARD'S DOORS. MOUNT IN NEMA-3R JUNCTION BOX.
- PROVIDE P64E METER PER P64E REQUIREMENTS.
- COORDINATE THE DISCONNECT AND REMOVAL OF THE EXISTING FEEDERS WITH THE PROJECT SCHEDULE AFTER REMOVAL OF EXISTING FEEDERS AND CONDUITS. CONTRACTOR SHALL RECONNECT PANEL WITH NEW FEEDERS AND CONDUIT AS SHOWN.
- TURN OFF CIRCUIT BREAKER AND LABEL AS SPARE.
- PROVIDE 400A-3P, 600V, HEAVY DUTY, DISCONNECT SWITCH FOR TRANSFORMER.
- PROVIDE 600A-3P, 600V, HEAVY DUTY, DISCONNECT SWITCH FOR TRANSFORMER.
- PROVIDE GROUNDING PER CEC.
- PROVIDE (2) 225A-3P SUBFEED CIRCUIT BREAKERS IN NEW PANEL AS NEEDED.

CABLE SCHEDULE:

- (N) (1) 4" - P64E PRIMARY.
- (N) (1) 5" - P64E SECONDARY.
- (E) FEEDER TO REMAIN.
- (N) 2 SETS - (N) 2.5" - (N) 3#250 + 1#2 GND.
- (N) 3" - (N) 3#250 + (1) #4 GND.
- (N) 2.5" - (N) 3#4/O + (1) #4 GND.
- (N) 3 SETS - (N) 3" - (N) 4#400 + 1#3/O GND.
- (N) 2" - (N) 3#1 + 1#6 GND.
- (N) 2 SETS - (N) 3" - (N) 4#250 + 1#1/O GND.
- (N) 2 SETS - (N) 3" - (N) 4#250 + 1#2/O GND.
- (N) 2.5" - (N) 4#4/O + 1#2 GND.
- (N) 2.5" - (N) 4#4/O + 1#4 GND.
- (N) 4" - (N) 4#500 + 1#3 GND.
- (N) 1.5" - (N) 4#2 + 1#6 GND.

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CONSULTANT



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STATE
DSA FILE NUMBER 41-26
APPL # 01-119530

REVISIONS
No. Description Date
ADDENDUM 1 11/24/2021

MILESTONES
DD
90% CD
DSA SUB 05/26/2021
BACKCHECK 10/07/2021
ADDENDUM 1 11/15/2021

SHEET
NEW SINGLE
LINE DIAGRAM

DATE 11/24/2021
JOB # 2021005.01
SHEET # AD-1
E4.2

PANEL NAME	2M	FED FROM MSB-1								
VOLTAGE	208/120V	MAIN CB: 500A-3P								
PHASE	3	BUSSING: 500 AMP								
WIRE	4	MIN. A.C. 10,000								
TYPE	NEMA 1	SUB-FEED CB								
MOUNTING	SURFACE	FEED THRU LUGS: YES								
CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG REC MTR NCL	CB #	OKT #	PH #	OKT #	CB #	LOAD TYPE (KVA) LTG Y REC MTR NCL	CIRCUIT DESCRIPTION		
(N) HP-7 - CLASSROOM 7 - - - - -	3.74 2P	50A	1	A	2	50A	3.74 2P	(N) HP-8 - CLASSROOM 8 - - - - -		
(N) HP-7A - CLASSROOM 7 - - - - -	3.74 2P	50A	5	C	6	50A	3.74 2P	(N) HP-9 - CLASSROOM 9 - - - - -		
(N) HP-7B - CLASSROOM 7 - - - - -	3.74 2P	50A	9	B	10	50A	3.74 2P	(N) HP-10 - CLASSROOM 10 - - - - -		
(N) FC-7 - CLASSROOM 7 - - - - -	0.89 2P	15A	13	A	14	15A	0.89 2P	(N) FC-8 - CLASSROOM 8 - - - - -		
(N) FC-7A - CLASSROOM 7 - - - - -	0.89 2P	15A	17	C	18	15A	0.89 2P	(N) FC-9 - CLASSROOM 9 - - - - -		
(N) FC-7B - CLASSROOM 7 - - - - -	0.89 2P	15A	21	B	22	15A	0.89 2P	(N) FC-10 - CLASSROOM 10 - - - - -		
SPARE	0.89 2P	23	C	24	2P	0.89				
SPARE	20A/1P	25	A	26	20A/1P	SPARE				
SPARE	20A/1P	27	B	28	20A/1P	SPARE				
SPARE	20A/1P	29	C	30	20A/1P	SPARE				
SPARE	20A/1P	31	A	32	20A/1P	SPARE				
SPARE	20A/1P	33	B	34	225A	(E) PANEL '2C'				
SPARE	20A/1P	35	C	36		- - - - -				
SPARE	20A/1P	37	A	38	3P	- - - - -				
SPARE	20A/1P	39	B	40	20A/1P	0.54 (N) WEATHERPROOF GFCI - WING 2				
(N) MOTOR RATED SWITCH FOR COND. PUMP - WING 2	0	0.36	20A/1P	41	C	42	20A/1P	0.36 (N) MOTOR RATED SWITCH FOR COND. PUMP - WING 2		
	0	0	0.4	27.8			0	0.5	0.4	27.8
LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	Yes/No	KVA PHASE A (CONNECTED)	18.6				
(LTG) LIGHTING X 125%	0	1.25	0.0	FULL RATED A/C	Y	KVA PHASE B (CONNECTED)	19.1			
(REC) RECEP.TS PER 220.44	0.5	1.00	0.5	SERIES RATED A/C	N	KVA PHASE C (CONNECTED)	19.3			
10KVA X 100% + REMAINDER X 50%	0	0.50	0.0	SPD	N	SUB FEED CONNECTED LOAD				
(MTR) LARGEST MOTOR X 125%	0.4	1.25	0.5	COPPER BUSSING	Y	TOTAL DEMAND KVA	57.0			
+ REMAINING MOTORS X 100%	0.4	1.00	0.4	ALUMINUM BUSSING	N	TOTAL LOAD AMPERES	158.4			
(NCL) NON CONTINUOUS LOAD X 100%	55.7	1.00	55.7							

PANEL NAME	3M	FED FROM	MSB-1							
VOLTAGE	208/120V	MAIN CB	500A-3P							
PHASE	3	BUSSING	500 AMP							
WIRE	4	MIN A/C	10,000							
TYPE	NEMA 1	SUB-FEED CB								
MOUNTING	SURFACE	FEED THRU LUGS	YES							
CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG REC MTR NCL	GB #	OKT #	PH #	GB #	LOAD TYPE (KVA) LTG REC MTR NCL	CIRCUIT DESCRIPTION			
(N) HP-11 - CLASSROOM 11		3.74	50A	1	A	2	50A	(N) HP-15 - CLASSROOM 15		
" " " "		3.74	2P	3	B	4	50A	" " " "		
(N) HP-12 - CLASSROOM 12		3.74	50A	5	C	6	50A	(N) HP-16 - CLASSROOM 16		
" " " "		3.74	2P	7	A	8	50A	" " " "		
(N) HP-13 - CLASSROOM 13		3.74	50A	9	B	10	50A	(N) HP-17 - CLASSROOM 17		
" " " "		3.74	2P	11	C	12	2P	" " " "		
(N) HP-14 - CLASSROOM 14		3.74	50A	13	A	14	15A	(N) FC-15 - CLASSROOM 15		
" " " "		3.74	2P	15	B	16	15A	" " " "		
(N) FC-11 - CLASSROOM 11		0.89	15A	17	C	18	15A	(N) FC-16 - CLASSROOM 16		
" " " "		0.89	2P	19	A	20	15A	" " " "		
(N) FC-12 - CLASSROOM 12		0.89	15A	21	B	22	15A	(N) FC-17 - CLASSROOM 17		
" " " "		0.89	2P	23	C	24	2P	" " " "		
(N) FC-13 - CLASSROOM 13		0.89	15A	25	A	26	20A/1P	SPARE		
" " " "		0.89	2P	27	B	28	20A/1P	SPARE		
(N) FC-14 - CLASSROOM 14		0.89	15A	29	C	30	20A/1P	SPARE		
" " " "		0.89	2P	31	A	32	20A/1P	SPARE		
SPARE			20A/1P	33	B	34	225A	(E) PANEL '3A'		
SPARE			20A/1P	35	C	36		" " " "		
SPARE			20A/1P	37	A	38	3P	" " " "		
SPARE			20A/1P	39	B	40	20A/1P	0.72 (N) WEATHERPROOF GFCI REC - WING 3		
(N) MOTOR RATED SWITCH FOR COND PUMP - WING 3		0.36	20A/1P	41	C	42	20A/1P	0.48 (N) MOTOR RATED SWITCH FOR COND PUMP - WING 3		
	0	0	0.4	37.1			0	0.7	0.5	27.8
LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	Yes/No	KVA PHASE A (CONNECTED)	23.2				
(LTG) LIGHTING x 125%	0	1.25	0.0	FULL RATED A/C Y	KVA PHASE B (CONNECTED)	23.0				
(REC) RECEP.TS PER 220.44	0.7	1.00	0.7	SERIES RATED A/C N	KVA PHASE C (CONNECTED)	20.3				
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0	SFD N	SUB FEED CONNECTED LOAD					
(MTR) LARGEST MOTOR x 125%	0.5	1.25	0.6	COPPER BUSSING Y	TOTAL DEMAND KVA	66.6				
+ REMAINING MOTORS x 100%	0.4	1.00	0.4	ALUMINUM BUSSING N	TOTAL LOAD AMPERES	185.0				
(NCL) NON CONTINUOUS LOAD x 100%	64.9	1.00	64.9							

PANEL NAME	4M	FED FROM MSB-1								
VOLTAGE	208/120V	MAIN CB: 500A-3P								
PHASE	3	BUSSING: 500 AMP								
WIRE	4	MIN. A/C: 10,000								
TYPE	NEMA 1	SUB-FEED CB								
MOUNTING	SURFACE	FEED THRU LUGS: YES								
CIRCUIT DESCRIPTION	LOAD TYPE (KVA) LTG REC MTR NCL	CB #	OKT #	PH #	OKT #	CB #	LOAD TYPE (KVA) LTG REC MTR NCL	CIRCUIT DESCRIPTION		
(N) HP-18 - CLASSROOM 18		3.74	50A	1	A	2	50A	(N) HP-22 - CLASSROOM 22		
" " " "		3.74	2P	3	B	4	50A	" " " "		
(N) HP-19 - CLASSROOM 19		3.74	50A	5	C	6	50A	(N) HP-23 - CLASSROOM 23		
" " " "		3.74	2P	7	A	8	50A	" " " "		
(N) HP-20 - CLASSROOM 20		3.74	50A	9	B	10	50A	(N) HP-24A - CLASSROOM 24		
" " " "		3.74	2P	11	C	12	50A	" " " "		
(N) HP-21 - CLASSROOM 21		0.89	15A	13	A	14	50A	(N) HP-24B - CLASSROOM 24		
" " " "		0.89	2P	15	B	16	15A	" " " "		
(N) FC-18 - CLASSROOM 18		0.89	15A	17	C	18	15A	(N) FC-22 - CLASSROOM 22		
" " " "		0.89	2P	19	A	20	15A	" " " "		
(N) FC-19 - CLASSROOM 19		0.89	15A	21	B	22	15A	(N) FC-23 - CLASSROOM 23		
" " " "		0.89	2P	23	C	24	15A	" " " "		
(N) FC-20 - CLASSROOM 20		0.89	15A	25	A	26	20A/1P	SPARE		
" " " "		0.89	2P	27	B	28	225A	(E) PANEL '4A'		
(N) FC-21 - CLASSROOM 21		0.89	15A	29	C	30		" " " "		
" " " "		0.89	2P	31	A	32	3P	" " " "		
(N) FC-24A - CLASSROOM 24		0.89	15A	33	B	34	225A	(E) PANEL '4B'		
" " " "		0.89	2P	35	C	36		" " " "		
(N) FC-24B - CLASSROOM 24		0.89	15A	37	A	38	3P	" " " "		
" " " "		0.89	2P	39	B	40	20A/1P	0.90 (N) WEATHERPROOF GFCI REC - WING 4		
(N) MOTOR RATED SWITCH FOR COND. PUMP - WING 4		0.48	20A/1P	41	C	42	20A/1P	0.48 (N) MOTOR RATED SWITCH FOR COND. PUMP - WING 4		
	0	0	0.5	40.7			0	0.9	0.5	33.5
LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	Yes/No	KVA PHASE A (CONNECTED)	26.9				
(LTG) LIGHTING x 125%	0	1.25	0.0	FULL RATED A/C Y	KVA PHASE B (CONNECTED)	27.6				
(REC) RECEP.TS PER 220.44	0.9	1.00	0.9	SERIES RATED A/C N	KVA PHASE C (CONNECTED)	21.3				
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0	SFD N	SUB FEED CONNECTED LOAD					
(MTR) LARGEST MOTOR x 125%	0.5	1.25	0.6	COPPER BUSSING Y	TOTAL DEMAND KVA	76.2				
+ REMAINING MOTORS x 100%	0.5	1.00	0.5	ALUMINUM BUSSING N	TOTAL LOAD AMPERES	211.7				
(NCL) NON CONTINUOUS LOAD x 100%	74.2	1.00	74.2							

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PROJECT
COLLEGE PARK
ELEMENTARY
SCHOOL - HVAC
REPLACEMENT

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STATE
DSA FILE NUMBER 41-26
APPL # 01-119530

REVISIONS
No. Description Date
ADDENDUM 1 11/24/2021

MILESTONES
DD
90% CD
DSA SUB 05/26/2021
BACKCHECK 10/07/2021
ADDENDUM 1 11/15/2021

SHEET
PANEL
SCHEDULES

DATE 11/24/2021
JOB # 2021005.01
SHEET # AD-1
E4.3