



ORG # 220 CSP # 207459

Mark Twain School for the Talented and Gifted

724 Green Cove Lane DALLAS, TEXAS 75232

PROGRAM MANAGER



DISD SUPERINTENDENT OF SCHOOLS

DR. STEPHANIE ELIZALDE

BOARD OF TRUSTEES

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District 8 - President

BEN MACKEY
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District 9



VOLUME 1

**100% CONSTRUCTION DOCUMENTS
NOT FOR CONSTRUCTION
AUGUST 16, 2024**



ARCHITECT

JMA Johnson, LLC
13355 Noel Road, Suite 1100
Dallas, Texas 75240

CONSULTANTS

BUILDING ENVELOPE CONSULTANT

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CIVIL ENGINEER

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15443 Knoll Trail Drive - suite 140
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MEP ENGINEERS

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11700 Preston, Suite. 660 #194
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STRUCTURAL ENGINEER

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INFORMATION TECHNOLOGY

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434 Coombs Creek Drive
Dallas, Texas 75211

COST ESTIMATOR

Riddle & Goodnight, Inc.
1155 Mary Drive
Weatherford, Texas 76085

ABBREVIATIONS

| | | | | | |
|----------|-------------------------------|------------|---|------------|--------------------------------------|
| & | AND | H | | S | |
| @ | AT | HC | HANDICAPPED | S | SOUTH |
| CL | CENTERLINE | HGT | HEIGHT | S.A.G. | SUPPLY AIR GRILLE |
| # | NUMBER | H.P.S. | HIGH PRESSURE SODIUM | S.D. | SCHEDULE |
| A | AGGR. | H.S. | HOSE BIBB | SECT. | SLOPE TO DRAIN |
| AGGR. | AGGREGATE | HDW | HARDWARE | SHT. | SHEET |
| ASPH. | ASPHALT | HDWD | HARDWOOD | SHWR | SHOWER |
| ACT. | AUSTRIAL CEILING TILE | H.M. | HOLLOW METAL | SM | SIMILAR |
| A/C | AIR CONDITIONING | H.C. | HOLLOW CORE | SPEC. | SPECIFICATION |
| ADJ. | ADJACENT OR ADJUSTABLE | HDR/L | HORIZONTAL | S.S. | STAINLESS STEEL |
| ABV. | ABOVE | H.V.A.C. | HEATING, VENTILATING AND AIR CONDITIONING | STD. | STANDARD |
| A.F.F. | ABOVE FIN. FLOOR | H.D. | HAND DRYER | STL | STEEL |
| AHU. | AIR HANDLING UNIT | I | | STOR. | STORAGE |
| ALUM. | ALUMINUM | INFO. | INFORMATION | SYM. | SYMMETRICAL |
| ANOD. | ANODIZED | INSUL. | INSULATION | S.C. | SOLID CORE |
| APPROX. | APPROXIMATE | IS. | INSIDE DIAMETER | SAN. | SANITARY |
| ARCH. | ARCHITECTURAL | IN. | INCH | S.N.D. | SANITARY NAPKIN DISPENSER |
| ADMIN. | ADMINISTRATION | INCL. | INCLUDE | S.N.R. | SANITARY NAPKIN RECEPTACLE |
| ADD'L | ADDITIONAL | INT. | INTERIOR | SQ. | SQUARE |
| ALT. | ALTERNATE | INV. | INVERT | STRUCT. | STRUCTURE |
| | | J | | SUSP. | SUSPENDED |
| B | BRICK COURSE | JAN. | JANITOR | T | |
| BD. | BOARD | JT. | JOINT | T.D.D. | TOWEL DISPENSER & DISPOSAL |
| BLDG. | BUILDING | JST. | JOIST | TEL | TELEPHONE |
| BLK. | BLOCK | L | | THK. | THICK |
| BM | BEAM | LAM. | LAMINATE | T.O.W. | TOP OF WALL |
| BRG. | BEARING | LAV. | LAVATORY | T.O.S. | TOP OF STEEL |
| BTWN. | BETWEEN | LT. | LIGHT | T.O.P. | TOP OF PARAPET |
| BRKT. | BRACKET | LAB. | LABORATORY | T.P.D. | TOILET PAPER DISPENSER |
| BSMT. | BASEMENT | LEED | LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN | TYP. | TYPICAL |
| BOT. | BOTTOM | LKR. | LOCKER | T.V. | TELEVISION |
| C | CABINET | L. | LENGTH | T.P.H. | TOILET PAPER HOLDER |
| C.A.D. | CHASE ACCESS DOOR | L.M.C. | LOCKER | U | UNDERWRITERS LABORATORY |
| C.G. | CORNER GUARD | LIN. | LINEAR METAL CEILING LINOLEUM | U.O.N. | UNLESS OTHERWISE NOTED |
| C.J. | CONTROL JOINT | M | | UIS | UNDERSIDE |
| CER. | CERAMIC | MANUF. | MANUFACTURER | U.S.G.B.C. | UNITED STATES GREEN BUILDING COUNCIL |
| C.I.P. | CAST IN PLACE | MAX. | MAXIMUM | UR | URNAL |
| CLG. | CEILING | MECH. | MECHANICAL | V | |
| CLR. | CLEAR | MTD. | METAL | VB | VAPOR BARRIER |
| C.M.U. | CONC. MASONRY UNIT | MISC. | MISCELLANEOUS | V.C.T. | VINYL COMPOSITE TILE |
| COL. | COLLECTOR | MN. | MINIMUM | VERT. | VERTICAL |
| CONC. | CONCRETE | MAS. | MASONRY | V.I.F. | VERIFY IN FIELD |
| CORR. | CORRIDOR | M.H. | MANNHOLE | VEST. | VESTIBULE |
| COORD. | COORDINATE | M.E.P. | MECHANICAL ELECTRICAL AND PLUMBING | V.O.C. | VOLATILE ORGANIC COMPOUNDS |
| CONT. | CONTINUOUS | MIR. | MIRROR | V.V.C. | VINYL WALLCOVERING |
| CONN. | CONNECTION | M.O. | MASONRY OPENING | V.T.R. | VENT THROUGH ROOF |
| CLG. | CEILING | M.T. | MARBLE THRESHOLD | W | |
| CTR | CENTER | MUL | MOUNTED MULLION | W | WEST |
| CLO. | CLOSET | N | | W.C. | WATER CLOSET |
| CONST. | CONSTRUCTION | N.I.C. | NORTH | WD. | WOOD |
| CONTR. | CONTRACTOR | N.O. | NOT IN CONTRACT | W/O | WITHOUT |
| C.P. | CONTROL PANEL - PROJECTION | N.T.S. | NOT TO SCALE | WT | WEIGHT |
| CPT. | CARPET | NOM. | NOMINAL | WDW | WINDOW |
| CT | CERAMIC TILE | OPNG. | OPENING | W.D. | WOOD DOOR |
| CTRL | CONTROL | OPP | OPPOSITE | WP. | WATERPROOF |
| D | | O.H. | OVERHEAD | WR/GWP | WATER RESISTANT GYPSUM WALL BOARD |
| DBL | DOUBLE | OZ. | OUNCE | W.R. | WATER RESISTANT |
| DET. | DETAIL | P | | WSCT. | WAINSCOT |
| DIA. | DIAMETER | PL | PLATE | WT. | WEIGHT |
| DIM. | DIMENSION | PT | PRESSURE TREATED | | |
| DN | DOWN | PLAM. | PLASTIC LAMINATE | | |
| D.O. | DOOR OPENING | PLYWD. | PLYWOOD | | |
| D.F. | DRINKING FOUNTAIN | PR | PAIR | | |
| DEPT. | DEPARTMENT | PRCST. | PRECAST | | |
| DISP. | DISPENSER | PREMANUF. | PREMANUFACTURED | | |
| D.P. | DAMP PROOFING | PTN. | PARTITION | | |
| D.S. | DOWNSPOUT | PNT. | PAINT | | |
| E | | PLBG. | PLUMBING | | |
| EA. | EACH | PKG./PKNG. | PARKING | | |
| E.J. | EXPANSION JOINT | PREP. | PREPARE | | |
| ELEV. | ELEVATION, ELEVATOR | PT. | PORCELAIN TILES | | |
| ELEC. | ELECTRICAL | R | | | |
| EQ. | EQUAL | RAD. | RADIUS | | |
| E.W.C. | ELECTRIC WATER COOLER | R.A.F. | RAISED ACCESS FLOORING | | |
| EXIST. | EXISTING | R.B. | RUBBER BASE | | |
| EXP. | EXPANSION | REF. | REFERENCE | | |
| EXT. | EXTERIOR | REQ. | REQUIRED | | |
| EXPO. | EXPOSED | RM. | ROOM | | |
| EMER. | EMERGENCY | RCP | REFLECTED CEILING PLAN | | |
| EQUIP. | EQUIPMENT | REINF. | REINFORCED | | |
| E.W. | EACH WAY | REINBAR | REINFORCING BAR | | |
| E.P. | ELECTRICAL PANEL BOARD | RESIL. | RESILIENT | | |
| ENCL. | ENCLOSURE | RGTR. | REGISITER | | |
| | | REFG. | REFRIGERATOR | | |
| FIN. | FINISH | R.O. | ROUGH OPENING | | |
| F.M. | FACTORY MUTUAL | R.T.U. | ROOF TOP UNIT | | |
| F.R. | FIRE RETARDANT | | | | |
| FLJ/FLR. | FLOOR | | | | |
| F.A. | FIRE ALARM | | | | |
| FON. | FOUNDATION | | | | |
| F.D. | FLOOR DRAIN | | | | |
| F.E.C. | FIRE EXTINGUISHER CABINET | | | | |
| F.O.C. | FACE OF CONCRETE | | | | |
| F.O.F. | FACE OF FINISH | | | | |
| F.O.S. | FACE OF STUD | | | | |
| F.O.W. | FACE OF WALL | | | | |
| F.R.P. | FIBERGLASS REINFORCED PLASTIC | | | | |
| FLASHG. | FLASHING | | | | |
| FLUOR. | FLUORESCENT | | | | |
| FTG. | FOOTING | | | | |
| GA. | GAUGE | | | | |
| GALV. | GALVANIZED | | | | |
| GL. | GLASS | | | | |
| G.F.I. | GROUND FAULT INTERRUPTER | | | | |
| GYP. BD. | GYPSUM BOARD | | | | |
| GRG. | GLASS REINFORCED GYPSUM | | | | |
| G.C. | GENERAL CONTRACTOR | | | | |
| G.B. | GRAB BAR | | | | |

CODE ANALYSIS

- PROJECT LOCATION: DALLAS ISD CONSTRUCTION SERVICES
Mark Twain School for the Talented and Gifted
724 Green Cove Lane
Dallas, Texas 75232
- ZONING: School
- APPLICABLE CODES: 2021 INTERNATIONAL BUILDING CODE with amendments
2021 INTERNATIONAL MECHANICAL CODE with amendments
2021 INTERNATIONAL PLUMBING CODE with amendments
2020 NATIONAL Electrical Code (NFPA 70)
2021 INTERNATIONAL FIRE CODE
2012 TEXAS ACCESSIBILITY STANDARDS
- PRIMARY OCCUPANCY: GROUP E
- SECONDARY OCCUPANCY: ASSEMBLY A-2
BUSINESS GROUP B
- AUTOMATIC FIRE SUPPRESSION: EXISTING AUTOMATIC SPRINKLER SYSTEM
- BUILDING SIZE: TOTAL 57,638 S.F.
- TYPE OF CONSTRUCTION: TYPE I B
- MAXIMUM TRAVEL DISTANCE: 200 feet NFPA
- FIRE PROTECTION REQUIREMENTS:

| BUILDING ELEMENT | 0-HOURS |
|----------------------------------|---------|
| STRUCTURAL FRAME | 0-HOURS |
| BEARING WALLS | 0-HOURS |
| EXTERIOR INTERIOR | 0-HOURS |
| NON BEARING WALLS AND PARTITIONS | 0-HOURS |
| EXTERIOR INTERIOR | 0-HOURS |
| FLOOR CONSTRUCTION | 0-HOURS |
| ROOF CONSTRUCTION | 0-HOURS |

SCOPE OF WORK

- PROVIDE SECURITY UPDATES
- PROVIDE SECURE FRONT VESTIBULE
- REPLACE EXTERIOR WATERPROOFING / SEALANT JOINTS
- REPLACE FIRE ALARM SYSTEM
- REPLACE EXTERIOR LIGHTS WITH L.E.D. LIGHTING
- PROVIDE EXTERIOR LIGHTING CONTROLS
- REPLACE VCT AND BASE AT DESIGNATED AREAS
- REPLACE TEACHING SURFACES AT ALL CLASSROOMS
- REPLACE CARPET / VCT AND BASE AT DESIGNATED AREAS
- PROVIDE NEW MARQUEE SIGN
- MECHANICAL / HVAC IMPROVEMENTS
- REPLACE GREASE TRAP AND WASTE PIPING, NEW WATER HEATER AND HOSE BIBBS
- PROVIDE / REPLACE IDF/MDF AIR CONDITIONING

GENERAL

| Sheet Number | Sheet Name |
|--------------|---|
| G0.00 | COVER SHEET |
| G0.01 | SHEET INDEX - SCOPE OF WORK - GENERAL NOTES |
| G0.02 | ACCESSIBILITY / DETAILS |
| G0.03 | PHASING PLAN |

| Sheet Number | Sheet Name |
|--------------|-------------|
| C04.01 | DEMO PLAN |
| C05.01 | PAVING PLAN |

| Sheet Number | Sheet Name |
|--------------|---------------------------------------|
| S-101 | GENERAL NOTES AND ABBREVIATIONS |
| S-201 | FOUNDATION AND FRAMING PLANS |
| S-301 | FOUNDATION DETAILS |
| S-302 | NEW MARQUEE SIGN SECTIONS AND DETAILS |
| S-402 | ROOF TOP UNITS PLAN |
| S-501 | TYPICAL DETAILS |

MECHANICAL

| Sheet Number | Sheet Name |
|--------------|---|
| M001 | DETAILS AND SCHEDULES |
| M002 | DETAILS AND SCHEDULES |
| M101 | AREAS A&B MECHANICAL DEMO PLAN |
| M102 | AREA C MECHANICAL DEMO PLAN |
| M103 | AREA D MECHANICAL DEMO PLAN |
| M104 | ROOF MECHANICAL DEMO PLAN |
| M201 | FLOOR PLAN MECHANICAL AREA A & B |
| M202 | FLOOR PLAN MECHANICAL AREA C |
| M203 | FLOOR PLAN MECHANICAL AREA D |
| M204 | ROOF PLAN MECHANICAL |
| M211 | FLOOR PLAN MECHANICAL PIPING AREA A & B |
| M212 | FLOOR PLAN MECHANICAL PIPING AREA C |
| M213 | FLOOR PLAN MECHANICAL PIPING AREA D |

CIVIL

| Sheet Number | Sheet Name |
|--------------|------------------------------------|
| E001 | DETAILS & SCHEDULES ELECTRICAL |
| E100 | SITE PLAN ELECTRICAL |
| E101 | SITE PLAN PHOTOMETRIC CALCULATIONS |
| E201 | FLOOR PLAN AREAS A&B LIGHTING |
| E202 | FLOOR PLAN AREA C LIGHTING |
| E203 | FLOOR PLAN AREA D LIGHTING |
| E204 | FLOOR PLAN AREA E LIGHTING |
| E205 | ROOF PLAN POWER |
| E301 | FLOOR PLAN AREAS A&B POWER |
| E302 | FLOOR PLAN AREA C POWER |
| E303 | FLOOR PLAN AREA D POWER |
| E304 | FLOOR PLAN AREA E POWER |

STRUCTURAL

| Sheet Number | Sheet Name |
|--------------|-----------------------------------|
| AS100 | SITE / ROOF PLAN |
| ASD100 | SITE ENTRY PAVEMENT DEMO PLAN |
| AS101 | SITE ENTRY PAVEMENT PLAN |
| AS102 | MARQUEE SIGN AND DETAILS |
| AD100 | COMPOSITE DEMO FLOOR PLAN |
| AD101 | ENLARGED ENTRY DEMO FLOOR PLAN |
| AD102 | DEMO FLOOR PLANS AREAS B,C, and D |
| AP100 | COMPOSITE FLOOR PLAN |
| AP101 | FLOOR PLAN AREA 'A' |
| AP102 | FLOOR PLAN AREA 'B' |
| AP103 | FLOOR PLAN AREA 'C' |
| AP104 | FLOOR PLAN AREA 'D' |
| AP105 | FLOOR PLAN AREA 'E' |
| AP106 | MILLWORK DETAILS |
| AC001 | COMPOSITE RFLC DEMO PLAN |
| AC002 | RFLC DEMO PLAN AREA 'A', 'B', 'D' |
| AC100 | COMPOSITE RFLC PLAN |
| AC101 | RFLC PLAN AREA 'A', 'B', 'D' |
| AE100 | EXTERIOR ELEVATIONS |
| AE101 | EXTERIOR ELEVATIONS |
| AE102 | EXTERIOR ELEVATIONS |

ARCHITECTURAL

| Sheet Number | Sheet Name |
|--------------|---|
| P001 | DETAILS & SCHEDULES PLUMBING |
| P101 | UNDERFLOOR PLAN PLUMBING DEMO AREAS A&B |
| P102 | UNDERFLOOR PLAN PLUMBING DEMO AREA C |
| P103 | UNDERFLOOR PLAN PLUMBING DEMO AREA D |
| P104 | UNDERFLOOR PLAN PLUMBING DEMO AREA E |
| P111 | FLOOR PLAN PLUMBING DEMO AREAS A&B |
| P112 | FLOOR PLAN PLUMBING DEMO AREA C |
| P113 | FLOOR PLAN PLUMBING DEMO AREA D |
| P201 | UNDERFLOOR PLAN PLUMBING AREAS A&B |
| P202 | UNDERFLOOR PLAN PLUMBING AREA C |
| P203 | UNDERFLOOR PLAN PLUMBING AREA D |
| P204 | UNDERFLOOR PLAN PLUMBING AREA E |
| P211 | FLOOR PLAN PLUMBING AREAS A&B |
| P212 | FLOOR PLAN PLUMBING AREA C |
| P213 | FLOOR PLAN PLUMBING AREA D |
| P214 | FLOOR PLAN PLUMBING AREA E |

SHEET INDEX

| Sheet Number | Sheet Name |
|--------------|---|
| P001 | DETAILS & SCHEDULES PLUMBING |
| P101 | UNDERFLOOR PLAN PLUMBING DEMO AREAS A&B |
| P102 | UNDERFLOOR PLAN PLUMBING DEMO AREA C |
| P103 | UNDERFLOOR PLAN PLUMBING DEMO AREA D |
| P104 | UNDERFLOOR PLAN PLUMBING DEMO AREA E |
| P111 | FLOOR PLAN PLUMBING DEMO AREAS A&B |
| P112 | FLOOR PLAN PLUMBING DEMO AREA C |
| P113 | FLOOR PLAN PLUMBING DEMO AREA D |
| P201 | UNDERFLOOR PLAN PLUMBING AREAS A&B |
| P202 | UNDERFLOOR PLAN PLUMBING AREA C |
| P203 | UNDERFLOOR PLAN PLUMBING AREA D |
| P204 | UNDERFLOOR PLAN PLUMBING AREA E |
| P211 | FLOOR PLAN PLUMBING AREAS A&B |
| P212 | FLOOR PLAN PLUMBING AREA C |
| P213 | FLOOR PLAN PLUMBING AREA D |
| P214 | FLOOR PLAN PLUMBING AREA E |

| Sheet Number | Sheet Name |
|--------------|---------------------------------|
| T201 | FLOOR PLAN TECHNOLOGY AREAS A&B |
| T202 | FLOOR PLAN TECHNOLOGY AREA C |
| T203 | FLOOR PLAN TECHNOLOGY AREA D |
| T204 | FLOOR PLAN TECHNOLOGY AREA E |
| T301 | FLOOR PLAN FIRE ALARM AREAS A&B |
| T302 | FLOOR PLAN FIRE ALARM AREA C |
| T303 | FLOOR PLAN FIRE ALARM AREA D |
| T304 | FLOOR PLAN FIRE ALARM AREA E |
| T305 | ROOF PLAN FIRE ALARM |

ELECTRICAL

| Sheet Number | Sheet Name |
|--------------|---------------------------------|
| T201 | FLOOR PLAN TECHNOLOGY AREAS A&B |
| T202 | FLOOR PLAN TECHNOLOGY AREA C |
| T203 | FLOOR PLAN TECHNOLOGY AREA D |
| T204 | FLOOR PLAN TECHNOLOGY AREA E |
| T301 | FLOOR PLAN FIRE ALARM AREAS A&B |
| T302 | FLOOR PLAN FIRE ALARM AREA C |
| T303 | FLOOR PLAN FIRE ALARM AREA D |
| T304 | FLOOR PLAN FIRE ALARM AREA E |
| T305 | ROOF PLAN FIRE ALARM |

TECHNOLOGY

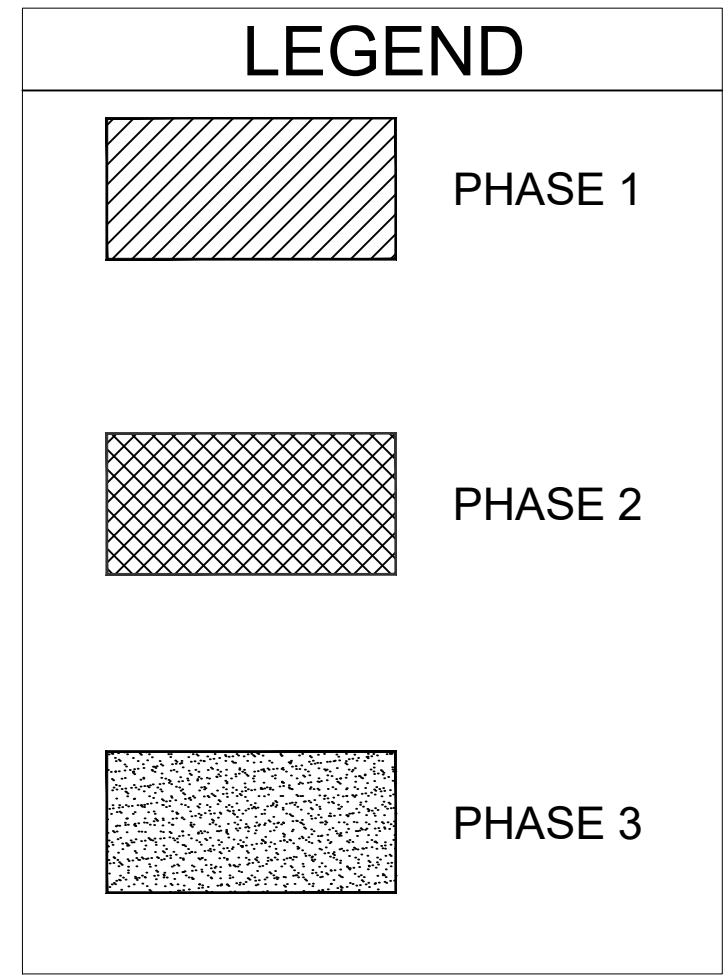
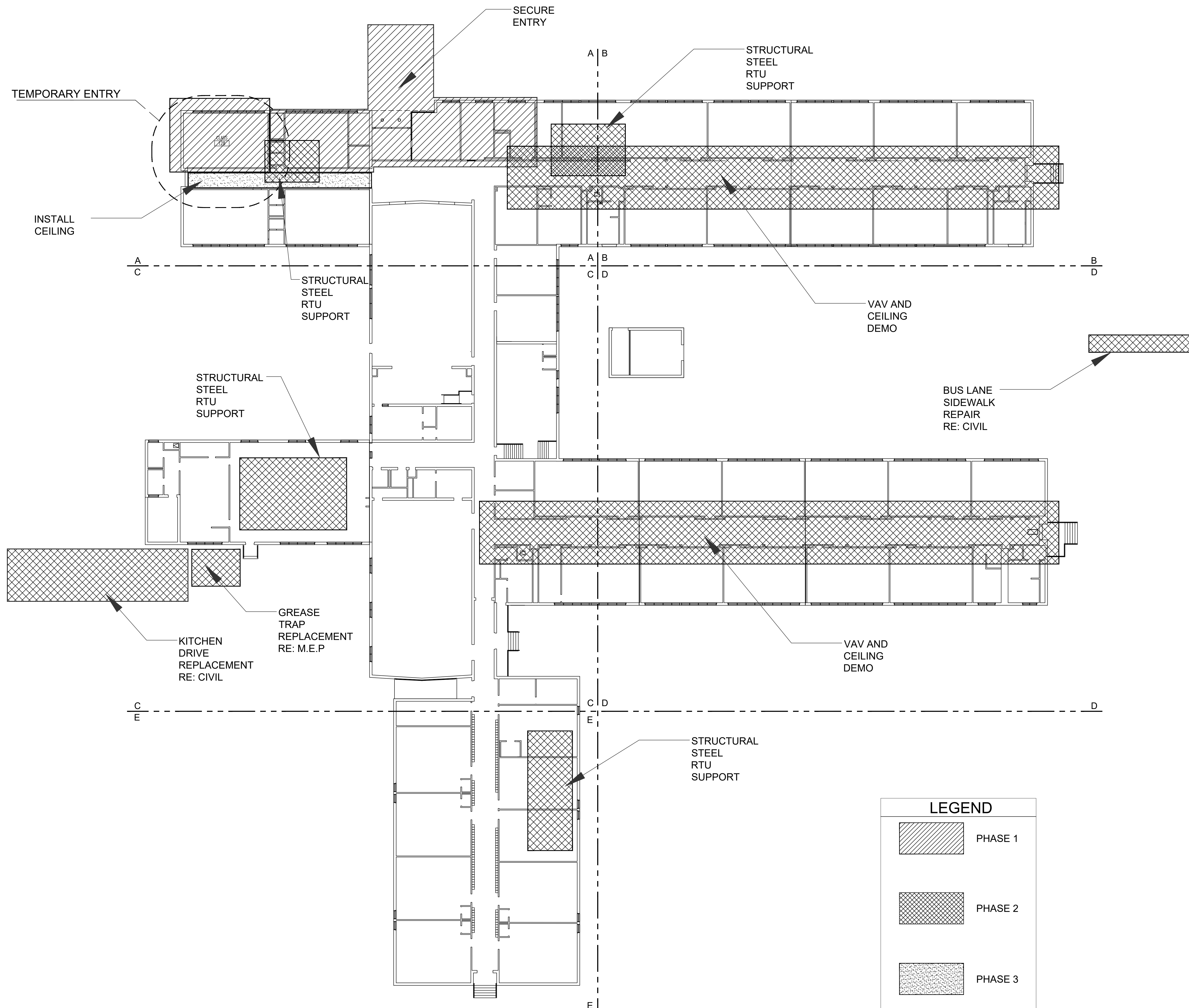
| Sheet Number | Sheet Name |
|--------------|---------------------------------|
| T201 | FLOOR PLAN TECHNOLOGY AREAS A&B |
| T202 | FLOOR PLAN TECHNOLOGY AREA C |
| T203 | FLOOR PLAN TECHNOLOGY AREA D |
| T204 | FLOOR PLAN TECHNOLOGY AREA E |
| T301 | FLOOR PLAN FIRE ALARM AREAS A&B |
| T302 | FLOOR PLAN FIRE ALARM AREA C |
| T303 | FLOOR PLAN FIRE ALARM AREA D |
| T304 | FLOOR PLAN FIRE ALARM AREA E |
| T305 | ROOF PLAN FIRE ALARM |

GENERAL NOTES TO CONTRACTOR:

- ALL WORK SHALL CONFORM AND COMPLY WITH ALL APPLICABLE LOCAL, MUNICIPAL, STATE, NATIONAL, BUILDING CODES, FEDERAL CODES AND ORDINANCES AS WELL AS REGULATIONS FOR ADA ACCESSIBILITY ORDINANCES AND DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND BE COMPLETELY FAMILIAR WITH SCOPE OF WORK AND EXISTING CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, UTILITIES, EASEMENTS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE COMMENCING THE WORK. FAILURE TO NOTIFY ARCHITECT OF ANY DISCREPANCIES AND/OR CONFLICTS PRIOR TO BEGINNING OR DURING CONSTRUCTION SHALL CONSTITUTE ACCEPTANCE OF RESPONSIBILITY BY THE CONTRACTOR AND SHALL BEAR ATTRIBUTABLE COSTS FOR CORRECTION.
- THE CONSTRUCTION AREA IS LIMITED TO THE AREA OWNED AND CONTROLLED BY DALLAS INDEPENDENT SCHOOL DISTRICT. THE CONTRACTOR SHALL PROVIDE ADDITIONAL PERMANENT/TEMPORARY SUPPORTS/BARRICADES, WARNING SIGNS AND FLASHING LIGHTS AS MAY BE NECESSARY DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF DEBRIS AND CONSTRUCTION WORK MATERIALS PER CONSTRUCTION WASTE MANAGEMENT PLAN.
- FURNISH ALL MATERIALS, LABOR AND EQUIPMENT, AS WELL AS ALL SCHEDULING SUPERVISION AND COORDINATION TO PROVIDE A FINISHED JOB, COMPLETE AND READY FOR USE. ALL MATERIALS TO BE INCORPORATED INTO WORK SHALL BE NEW.
- MUTUALLY COORDINATE WITH WORK OF OTHER CONTRACTORS AT THE SITE, WHICH MAY INCLUDE (BUT ARE NOT LIMITED TO) DOMESTIC WATER, STORM SEWER, IRRIGATION, ELECTRICAL, GAS, TELEPHONE, TV CABLE AND LANDSCAPE.
- OBTAIN APPROVALS AND PAY FOR PERMITS OR OTHER FEES REQUIRED BY GOVERNING AGENCIES FOR WORK REQUIRED AT THE JOB SITE, ON ADJACENT PROPERTIES OR ON PUBLIC WALKS AND THOROUGHFARES.
- PROVIDE ARCHITECT AND OWNER A COPY OF THE PROPOSED CONSTRUCTION SCHEDULE BEFORE BEGINNING WORK.
- PROVIDE OWNER SEVEN DAYS ADVANCE NOTICE OF MOBILIZATION.
- COORDINATE ALL ACTIVITIES WITH THE OWNER BEFORE PREPARING CONSTRUCTION SCHEDULE.
- PROVIDE TEMPORARY WALKS OR OTHERWISE MAINTAIN FULL ACCESS TO THE BUILDING AND ALL SERVICE FACILITIES AND FUNCTIONS THROUGHOUT THE PROCESS.
- PROTECT EXISTING CONSTRUCTION, HVAC, ELECTRICAL, PLUMBING, AND FINISHING THAT ARE NOT AFFECTED BY DEMOLITION. REPAIR OR REPLACE WORK INADVERTENTLY DAMAGED BY DEMOLITION OPERATIONS AT NO ADDITIONAL COST TO OWNER.
- LAY OUT ALL WORK AS SHOWN ON DRAWINGS. NOTIFY ARCHITECT OF ALL DISCREPANCIES IMMEDIATELY AND DO NOT PROCEED WITH CONSTRUCTION UNTIL DISCREPANCIES ARE RESOLVED.
- DO NOT INTERFERE WITH OTHER DALLAS INDEPENDENT SCHOOL DISTRICT CONTRACT WORK AND OPERATIONS ON THIS SITE.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO KEEP AND MAINTAIN THE FIRE ALARM OPERATIONAL DURING CONSTRUCTION. EXISTING FIRE ALARM TO BE DEMOLISHED IMMEDIATELY AFTER APPROVAL. PATCH AND PAINT ALL DEMO LOCATIONS.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO USE ANY ALL ACCEPTABLE METHODS TO ENSURE UNDERGROUND ARE LOCATED AND UNDISTURBED.

DISPOSAL OF DEBRIS:

- REMOVAL MATERIAL, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE, BECOMES PROPERTY OF



MARK TWAIN GENERAL NOTES:
 SCHOOL AND WORKING HOURS
 NORMAL SCHOOL CLASSROOM HOURS, REFER TO SPECIFICATIONS DIVISION 1
 NORMAL SCHOOL WORKING HOURS ARE ALLOWED REFER TO SPECIFICATIONS DIVISION 1.
 NONSCHOOL WORKING HOURS (WEEKENDS, HOLIDAYS, BREAKS, AND SUMMER TO BE 7:00am to 10:00pm) CONFIRM WITH THE CITY OF DALLAS IF WORKING HOURS CAN BE EXTENDED.

SPECIAL NOTES
 • Construction Phasing Period for each phase is to be determined pending the General Contractor firm's construction schedule.
 • Total Construction Schedule Start/Finish to be determined pending the General Contractor firm's construction schedule.

- NO WORK WILL BE ALLOWED TO BE PERFORMED DURING TESTING HOURS.
- ANY WORK ON THE KITCHEN AND CAFETERIA TO BE PERFORMED DURING THE SUMMER.
- CONSULT WITH THE PROGRAM MANAGER AND SCHOOL STAFF FOR SPECIFY TESTING DATES.
- COORDINATE ALL WORK AND SCHOOL ACCESS WITH THE PRINCIPAL FOR THE AGREED TO SCHOOL CONTACT PERSON AND PROGRAM MANAGER.
- NO OVERHEAD OR ROOF WORK TO BE PERFORMED OVER OCCUPIED AREAS OR CLASSROOMS.
- NO TRENCHING OR EXCAVATION ALLOWED DURING SCHOOL HOURS.
- REFER TO THE PROJECT MANUAL DIVISION IF WORK IS ASSOCIATED WITH THE FIRE SPRINKLER, FIRE ALARM AND OR SECURITY SYSTEMS. EXISTING SYSTEMS TO BE MAINTAINED AND OPERATIONAL UNTIL THE NEW SYSTEM IS FULLY OPERATIONAL, TESTED AND ACCEPTED.
- GENERAL CONTRACTOR IS TO AUDIT ALL EXISTING SYSTEMS BEFORE THE WORK IS STARTED TO VERIFY WORK AND/OR NON-WORKING COMPONENTS. THE SYSTEMS INCLUDED ARE THE FIRE SPRINKLER, FIRE ALARM, P.A., SECURITY SENSORS, HVAC CONTROLS, ETC. THE CONTRACTOR IS TO AUDIT THESE SYSTEMS AND PROVIDE A WRITTEN REPORT TO THE PROJECT MANAGER OF WHAT WAS FOUND FOR EACH SYSTEM AND PRECONSTRUCTION PHOTOS OF THESE SYSTEMS PER THE PROJECT SPECIFICATIONS SECTION 01 22 21 - PHOTOGRAPHIC DOCUMENTATION REQUIREMENTS. IF A WRITTEN REPORT IS NOT FURNISHED BEFORE THE CONTRACTOR MOBILIZES ON SITE AND/OR 10 BUSINESS DAYS FROM RECEIVING A NOTICE TO PROCEED, THE SYSTEMS WILL BE CONSIDERED IN FULLY OPERATIONAL CONDITION AT THE END OF THE PROJECT (FINAL COMPLETION) AT NO ADDITIONAL COST TO THE OWNER.
- THE GENERAL CONTRACTOR TO INCLUDE ALL COST RELATED TO SAFETY IN THE CONSTRUCTION COST, NOT A SEPARATE BUDGET OR ADD SERVICE. FOR AN EXAMPLE, RELOCATING FENCING AND BARRICADES FENCING WITH SCREENING, ETC.
- THE GENERAL CONTRACTOR TO PROVIDE AND INSTALL HARD BARRIERS WITH SCREENED FENCING TO SEPARATE THE WORK AREAS FROM STUDENTS.
- PLEASE NOTE THAT THE FINAL SCHEDULE AND/OR PHASING SCHEDULES ALONG WITH AREAS OF WORK ASSOCIATED WITH THE PROPOSED SCHEDULES ARE TO BE COORDINATED BY THE GENERAL CONTRACTOR, ARCHITECT, PROGRAM MANAGER, THE DALLAS INDEPENDENT SCHOOL DISTRICT AND SCHOOL PERSONNEL.
- GENERAL CONTRACTOR TO PROVIDE IN COORDINATION WITH FACILITY STAFF DIRECTIONAL SIGNAGE TO SUPPORT CAMPUS OPERATIONS AND WAYFINDING. GENERAL CONTRACTOR TO PROVIDE AND INSTALL FULL HEIGHT WALL BARRIER BETWEEN THE CONSTRUCTION, SCOPE OF WORK AND PUBLIC ACCESS. PROVIDE DOOR ENCLOSURE FOR ACCESSIBILITY TO THE INTERIOR CONSTRUCTION SITE.
- COORDINATE HOLIDAYS, NIGHTS, AND WEEKENDS THROUGH THE SCHOOL YEAR WITH A HARD BARRIER. OCCUPANTS WILL BE RELOCATED FOR THE DURATION.

PROPOSED ORDER OF CONSTRUCTION

- PHASE - "1"**
- PLEASE NOTE AT TEMPORARY PARENT ENTRANCE, DISD TO RELOCATE AND INSTALL DOOR BUZZER AND CAMERA WELL TO BE CONTROLLED AND MONITORED AT THE TEMPORARY ADMIN OFFICE PRIOR TO START OF WORK IN WORK AREA "1".
 - RELOCATE EXISTING ADMINISTRATION STAFF TO TEMPORARY ENTRANCE CLASSROOM #128. PROVIDE FULL HEIGHT SIDE LIGHT FOR VISUAL ACCESS TO THE TEMPORARY ENTRANCE.
 - Renovate and build a new secure entry. The new entry shall include the new reception counter. After hours work only.
 - Waste lines. After hours work only.

- PHASE - "2" SUMMER WORK**
- VAV boxes and ceiling demo.
 - Structural Steel supports for RTUs
 - RTU Installation
 - Grease trap replacement
 - Kitchen Waste lines and drains.
 - Kitchen Drive.
 - Bus Lane sidewalk.
 - Abate floors and ceilings as necessary.

- PHASE - "3"**
- Replacement of floor after Ceiling scope completion. During the school year after hours work.
 - Replace ceiling during school year. After hours work.

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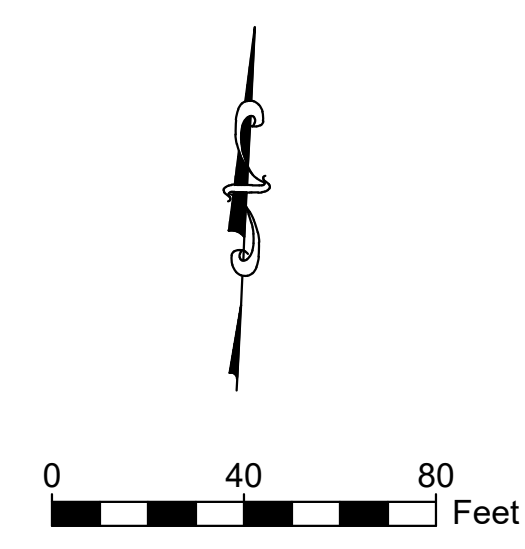
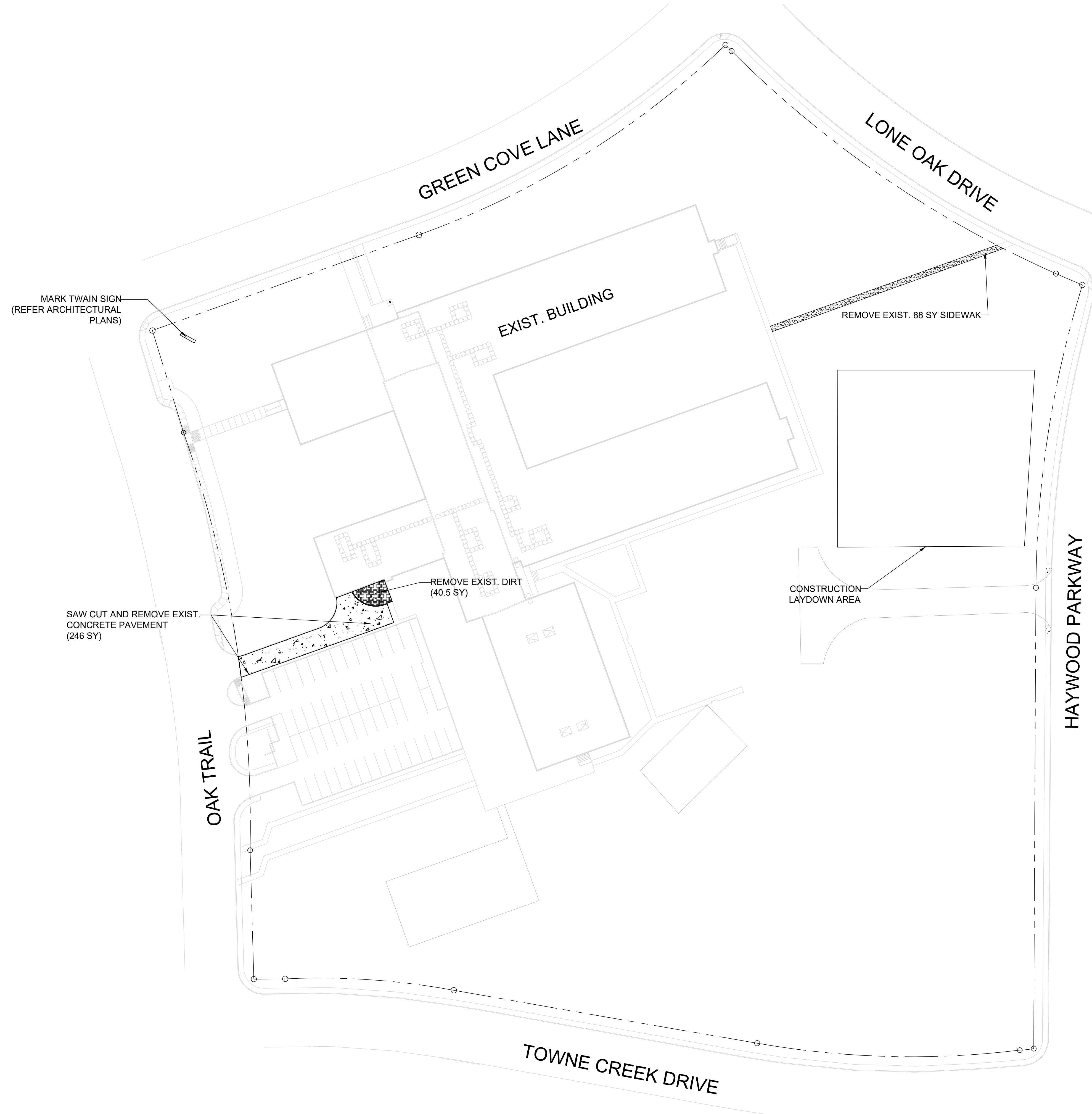
Dallas Independent School District
 2020 Bond Program
 Mark Twain School for the Talented and Gifted
 724 Green Cove Lane - Dallas, Texas 75232
100% CONSTRUCTION DOCUMENTS

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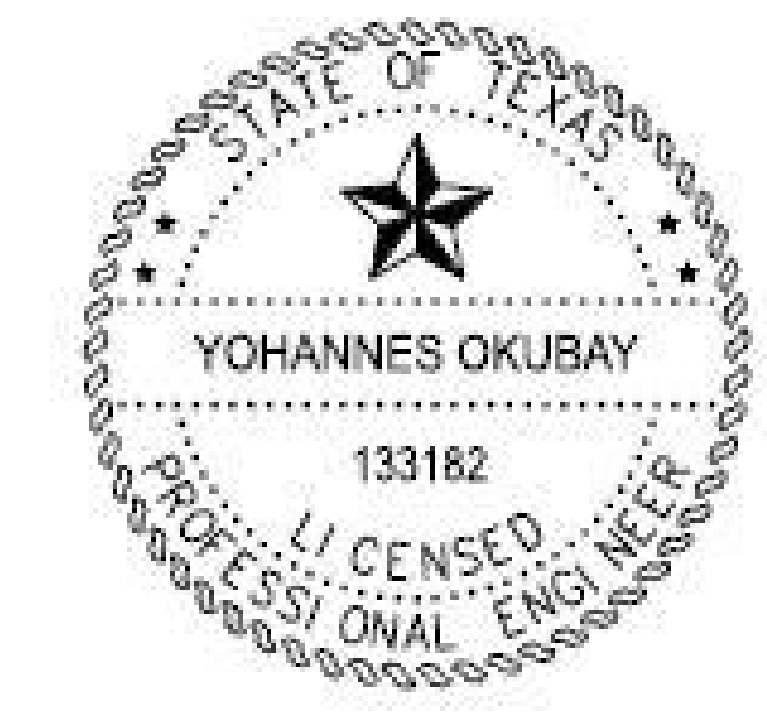
LEGEND

- REMOVE DIRT
- REMOVE EX. SIDEWALK
- REMOVE EX. PAVEMENT
- RIGHT-OF-WAY

NOTE:

1. SAW CUT AND REMOVE EXISTING SIDEWALK AND CONCRETE PAVEMENT

Yohannes Okubay



08/14/2024

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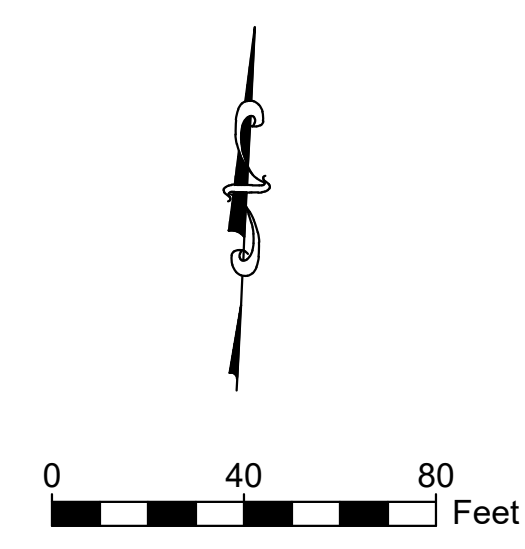
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LEGEND

- PROP. 4" CONC. SIDEWALK
- PROP. CONCRETE PAVEMENT
- RIGHT-OF-WAY

PAVING GENERAL NOTES

1. THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3500 PSI UNLESS IT IS SPECIFIED IN PLANS AND IN THE SPECIFICATIONS.
2. MATCH EXISTING PAVEMENT EXPANSION JOINTS AND THICKNESS, CONSTRUCTION JOINT AND SAWCUTTING INTERVALS AND SPACES.
3. RUNNING SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 5 PERCENT UNLESS DESIGNED AS A RAMP AND CROSS SLOPES ARE MAX 2%.

Johannes Okubay



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STRUCTURAL ABBREVIATIONS

GENERAL NOTES

Table of structural abbreviations including A.B., A/C, A/E, A.F.F., ADD'L., ADJ., AHU, ALT., ALUM., APPROX., ARCH., ARCH'L., B.F.F., B.L., B.P., BAL., BLDG., BLK., BLKG., BM., BOT., BRDG., BRG., BRKT., BSMT., BTWN., C. OR COMP., C.I.P., C.J., C.L. OR G., CANT'L., CLG., COL., CONC., CONN(S), CONSTR., CONTR., CTR., D.L., DBL., DEG. OR °, DET., DIA. OR Ø, DIAG., DIM(S), DN., DWG(S), DWL(S), E.E., E.F., E.J., E.S., E.W., E.W.B., E.W.T., E.W.T.B., EA., EL., ELEC., EMBED., EQ., EQUIP., EXIST., EXP., EXT., F. TO F., F.D., F.P., F.S., FDN., FIN. FL., FLG., FT., FTG., G.C., GA., GALV., GEN., GB., H.P., H.S., HK., H.I.F., H.O.F., HT., HVAC, I.D., I.F., IN., INFO., INSUL., INT., INTERM., JST(S), JT., K., K.L.F., K.S.F., L.L., LLH, LLV, L.P., L.W., L.W.B., L.W.T., L.W.T.B., LB., #, LG., LONG., LWGT.

DESIGN LOADS

- 1. GRAVITY LOADS:
A. DESIGN UNIFORM LIVE LOADS ARE AS LISTED BELOW...
B. DESIGN UNIFORM SUPERIMPOSED DEAD LOADS ARE IN ADDITION TO THE WEIGHT OF THE BUILDING STRUCTURE...
C. DESIGN CONCENTRATED LIVE LOADS ARE NOT COMBINED WITH UNIFORM LIVE LOADS...
D. UNIFORM LIVE LOADS
E. UNIFORM SUPERIMPOSED DEAD LOADS
F. CONCENTRATED LIVE LOADS
G. CONCENTRATED FLOOR LOAD APPLIED OVER AREA OF 2'-6" x 2'-6"...
2. SNOW LOAD
A. GROUND SNOW LOAD - CITY OF DALLAS = 5 PSF
3. WIND LOADS
A. IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC 2021)
B. MAIN WIND FORCE RESISTING SYSTEM DESIGN PARAMETERS (ULTIMATE) CITY OF DALLAS
C. ROOF DESIGN UPLIFT PRESSURES: (ULTIMATE)
D. EXTERIOR WALL DESIGN PRESSURES: (ULTIMATE)
E. ESTIMATED ROOF DEAD LOAD: (NOT INCLUDING STRUCTURE)
4. SEISMIC LOADS
A. IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC 2021)
B. SEISMIC COEFFICIENTS AND CATEGORIES - CITY OF DALLAS

FOUNDATION

- 1. THESE NOTES APPLY TO ALL FOUNDATIONS AND SLABS ON GRADE DETAILED ON THE STRUCTURAL DRAWINGS, UNLESS NOTED OTHERWISE.
2. FOUNDATION DESIGN IS BASED ON THE SOILS REPORT PREPARED BY ALPHA TESTING, REPORT NO. G231071, DATED JULY 17, 2023.
3. DESIGN END BEARING PRESSURE IS 30 KSF FOR DRILLED STRAIGHT-SHAFT PIERS WITH AT LEAST 3'-0" PENETRATION INTO TAN SHALEY LIMESTONE AND 50 KSF FOR PIERS WITH AT LEAST 2'-0" PENETRATION INTO THE DARK GRAY LIMESTONE.
4. CAST CONCRETE WITHIN 8 HOURS OF DRILLING PIER SHAFT INTO BEARING STRATUM, AND IN NO CASE SHALL THE PIER EXCAVATION REMAIN OPEN OVERNIGHT.
5. UNLESS SPECIFIED OTHERWISE, VAPOR BARRIER SHALL CONSIST OF 8 MIL POLYETHYLENE SHEET. TURN DOWN AT GRADE BEAMS AND PIERS, LAP AND SEAL AT ALL JOINTS AND AROUND ALL COLUMNS AND STUB-OUTS. PATCH ALL TEARS PRIOR TO PLACING CONCRETE.
6. PROVIDE 10" CARTON FORMS UNDER ALL GRADE BEAMS AND SLABS.
7. ALL GRADE BEAMS SHALL BE FORMED ON BOTH SIDES. EARTH-FORMING IS NOT ALLOWED.
8. IT MAY BE NECESSARY TO USE TEMPORARY CASING WHILE DRILLING THE PIERS IF UNDERGROUND WATER IS ENCOUNTERED.
9. IF TEMPORARY CASINGS ARE NECESSARY, EXTRACTION OF THE CASINGS SHALL BE DONE IN A MANNER THAT MAINTAINS A POSITIVE HEAD OF PLASTIC CONCRETE SO AS TO MINIMIZE THE POTENTIAL FOR INFILTRATION OF WATER SEEPAGE OR SLOUGHING SOILS.

CAST IN PLACE REINFORCED CONCRETE

- 1. ALL STRUCTURAL CONCRETE SHALL BE OF NORMAL WEIGHT AGGREGATE WITH SPECIFIED PROPERTIES AS FOLLOWS:
GRADE BEAMS - 28 DAY STRENGTH 4000 P.S.I., SLUMP 3"-5", MAX. AGGREGATE 1"
PIERS - 3000 P.S.I., 5"-7", 1"
SLABS - 4000 P.S.I., 3"-5", 3/4"
OTHER CONCRETE - 3000 P.S.I., 3"-5", 1"
2. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
3. REINFORCING STEEL SPECIFICALLY NOTED TO BE SHOP OR FIELD WELDED REINFORCING STEEL IS NOT PERMITTED.
4. ALL REINFORCING SHALL LAP 48 BAR DIAMETERS AT SPLICES UNLESS NOTED OTHERWISE. HOOK CONTINUOUS BARS AT DISCONTINUOUS ENDS.
5. WELDED WIRE FABRIC SHALL BE SUPPLIED IN FLAT SHEETS, NOT ROLLS.
6. DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI PUBLICATION 315.
7. UNLESS NOTED OTHERWISE, CONCRETE PROTECTION FOR REINFORCING SHALL BE AS FOLLOWS:
PIERS 3" TO VERTICAL STEEL
SLABS ON CARTON FORM 1 1/2" TOP, 1 1/2" BOTTOM
FORMED BEAMS AND WALLS 2" SIDES AND TOP, 2" BOTTOM TO MAIN STEEL
8. NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE, EXCEPT WHERE VERTICAL JOINTS SHALL OCCUR AT OR NEAR THE CENTER OF SPANS, OR AS APPROVED BY THE STRUCTURAL ENGINEER.
9. PROVIDE 5% (+/- 1.5%) AIR ENTRAINMENT IN CONCRETE PERMANENTLY EXPOSED TO WEATHER. USE OF AIR ENTRAINMENT, & CORRESPONDING REDUCTION OF WATER/CEMENT, MUST BE NOTED ON MIX DESIGNS. DO NOT USE AIR ENTRAINMENT IN SLABS WHICH HAVE HARD TROWEL FINISH.
10. PLACE 6" P.V.C. WATERSTOPS IN ALL EXTERIOR CONSTRUCTION JOINTS BELOW GRADE AND ELSEWHERE AS CALLED FOR.
11. SEE SPECIFICATIONS FOR FORMWORK AND RESHORING GUIDELINES.

STRUCTURAL STEEL

- 1. STRUCTURAL SHAPES AND PLATES SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
A. ALL WIDE FLANGE & WT SECTIONS - ASTM A992, GRADE 50
B. ALL HSS MEMBERS - ASTM A500, GRADE B, 46 KSI FOR RECT. SHAPES, 42 KSI FOR ROUND SHAPES
C. ALL ANCHOR BOLTS - ASTM F1554, GRADE 36
D. ALL OTHER SHAPES AND PLATES - ASTM A36
2. ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL BE 3/4 IN. DIA. CONFORMING TO ASTM A-325. ALL SHEAR CONNECTIONS SHALL BE DESIGNED AS BEARING-TYPE BASED ON THREADS INCLUDED IN THE SHEAR PLANE, UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION, DEFINED AS "A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A WORKER WITH AN ORDINARY SPUD WRENCH THAT BRINGS CONNECTED PLIES INTO FIRM CONTACT".
3. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH A.W.S. CODE, BY CERTIFIED WELDERS. WELDING ELECTRODES SHALL BE E70 XX.
4. SEE SPECIFICATIONS FOR PRIMER SURFACE PREPARATION REQUIREMENTS. DO NOT APPLY PRIMER TO ANY STEEL PARTS THAT ARE TO BE ENCASED IN CONCRETE OR ARE TO BE FIREPROOFED USING BLOWN-UP FIREPROOFING MATERIALS.
5. ALL BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS SHALL BE DESIGNED AS "SIMPLE CONNECTIONS", AND SHALL BE SHOP WELDED AND FIELD BOLTED. SHEAR CONNECTIONS SHALL BE DESIGNED FOR THE REACTION SHOWN ON PLANS, WHICH ARE UNFACTORED, BASED ON WORKING LOADS. IF NO REACTION IS SHOWN, THE CONNECTION SHALL BE DESIGNED FOR 50% OF THE TOTAL LOAD CAPACITY LISTED ON THE TABLE: "MAXIMUM TOTAL UNIFORM LOAD" (Tb1, 3-6), OF THE AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION, IN NO CASE, HOWEVER, SHOULD ANY CONNECTION BE DESIGNED FOR LESS THAN 7 KIIPS, UNFACTORED.
6. SHEAR CONNECTIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF TEXAS, USING THE DESIGN PARAMETERS INDICATED ON NOTE NO. 5 ABOVE.
7. CONNECTIONS INDICATED AS MOMENT CONNECTIONS IN THE STRUCTURAL DRAWINGS SHALL BE DESIGNED TO RESIST THE FULL MOMENT CAPACITY OF THE SUPPORTED SHEAR CONNECTIONS IN MOMENT CONNECTIONS MAY BE EITHER WELDED OR BOLTED, AT STEEL FABRICATOR'S OPTION.
8. PROVIDE STIFFENERS AT ALL LOCATIONS SHOWN ON DETAILS, WHETHER OR NOT THEY ARE REQUIRED BY CALCULATIONS.
9. ALL COLUMN BASE PLATES SHALL BE FULLY GROUTED, WITH NO VOIDS, IMMEDIATELY AFTER THE FRAME ERECTION IS COMPLETED AND PLUMBED, AND PRIOR TO POURING THE TOPPING SLABS FOR FLOORS OR APPLYING DECKING TO ROOF JOISTS.
10. SEE SPECIFICATIONS FOR EXPOSED STEEL REQUIREMENTS.

METAL ROOF DECK

- 1. THE METAL ROOF DECK IS REQUIRED TO ACT AS A STRUCTURAL DIAPHRAGM AND SHALL BE FASTENED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS TO DEVELOP A MINIMUM SHEAR LOAD OF 300 PLF (ASD).
2. THE METAL ROOF DECK SHALL BE FASTENED TO SUPPORTS AND PERIMETER USING 5/8" DIAMETER FULL FUSION PUDDLE WELDS AND AT SIDELAPS USING #12 "TEKS" SCREWS. ALL WELDS SHALL BE MADE WITH AWS E70 ELECTRODES AND THE METAL AROUND THE WELDS SHALL BE COMPLETELY INTACT AFTER WELDING.
3. MAXIMUM SPACING OF CONNECTIONS SHALL BE AS FOLLOWS:
A. AT SUPPORTS: ALTERNATE FLUTES
B. AT SIDELAPS: 18"
C. PERIMETER: 12"
4. THE METAL ROOF DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS.

HOLLOW CONCRETE MASONRY

- 1. MASONRY WALL DESIGN IS BASED ON QUALITY ASSURANCE AS PRESCRIBED IN IBC 2021 SECTION 2105 BASED ON DESIGN FOR FULL STRESSES, AND AS PRESCRIBED IN ACI-530.1 SECTION 1.14.
2. ALL HOLLOW CONCRETE BLOCK SHALL CONFORM WITH ASTM C90, TYPE N-1, AND SHALL HAVE A COMPRESSIVE STRENGTH, BASED ON THE NET AREA AND AN AVERAGE OF 3 UNITS, OF 1,900 PSI.
3. MORTAR FOR REINFORCED HOLLOW CONCRETE MASONRY SHALL BE TYPE S WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1800 PSI.
4. GROUT FOR REINFORCED HOLLOW CONCRETE MASONRY SHALL HAVE THE FOLLOWING PROPERTIES:
A. MINIMUM STRENGTH = 2500 PSI AT 28 DAYS
B. MAXIMUM COARSE AGGREGATE SIZE = 3/8"
C. SLUMP = 7" TO 11"
5. PROVIDE HORIZONTAL JOINT REINFORCEMENT AT EVERY SECOND BLOCK COURSE UNLESS NOTED IN THE SPECIFICATION. PROVIDE HORIZONTAL BOND BEAMS IN LOAD-BEARING WALLS, LOCATED AT ROOF BEARING, TOP OF PARAPET AND AT 8'-0" O.C. MAXIMUM. REQUIRED INTERMEDIATE BOND BEAMS SHALL BE SPACED UNIFORMLY THROUGHOUT THE HEIGHT OF THE WALL.
6. U.N.O. REINFORCE BOND BEAMS WITH 2-#5 CONTINUOUS, AND EXTEND BOND BEAM REINFORCING CONTINUOUS THROUGH CONTROL JOINTS.
7. U.N.O. ON PLANS PROVIDE VERTICAL REINFORCEMENT AS FOLLOWS:
A. 12" CONCRETE BLOCK = #6 AT 24" O.C.E.F.
B. 1-#5 EACH END OF WALL
C. 1-#5 EACH CORNER OR INTERSECTION IN WALL
D. 1-#5 EACH SIDE OF OPENING IN WALL
E. 1-#5 EACH CELL IN COLUMN UNDER STEEL BEAM SUPPORT ON WALL
F. 1-#5 EACH CELL IN COLUMN
ALL VERTICAL REINFORCING STEEL SHALL BE CENTERED IN CELLS UNLESS NOTED OTHERWISE.
8. PROVIDE VERTICAL DOWELS TO MATCH SIZE AND LOCATIONS OF VERTICAL BAR LAP WITH VERTICAL REINFORCING AS NOTED BELOW. WHERE NO EMBEDMENT IS SHOWN, EMBED DOWELS 30 BAR DIAMETERS INTO FOUNDATION CONCRETE.
9. LAP SPLICES IN MASONRY REINFORCEMENT:
A. #3 BARS LAP 15"
B. #4 BARS LAP 24"
C. #5 BARS LAP 30"
D. #6 BARS LAP 36"
ALL HORIZONTAL REINFORCING BARS IN LINTEL BEAMS SHALL BE CONTINUOUS BARS WITH NO SPLICES. ALL OTHER MASONRY REINFORCEMENT SHALL LAP 40 BAR DIAMETERS AT SPLICES UNLESS NOTED OTHERWISE.
VERTICAL REINFORCEMENT SHALL BE MADE CONTINUOUS AT THE BASE OF ALL PARAPETS. SPLICING REINFORCEMENT AT THIS LOCATION IS NOT ALLOWED.
HORIZONTAL REINFORCEMENT SHALL BE MADE CONTINUOUS AT THE FACE OF ALL CANTILEVERS. SPLICING REINFORCEMENT AT THIS LOCATION IS NOT ALLOWED.

GENERAL

- 1. ALL MEMBERS AND MATERIALS COVERED UNDER THESE GENERAL NOTES AND THE CONSTRUCTION DOCUMENTS SHALL AS A MINIMUM BE INSPECTED IN ACCORDANCE WITH THE IBC 2015 CODE CHAPTER 17 : STRUCTURAL TESTS AND SPECIAL INSPECTIONS.
2. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION AND SIZES OF SMALL MECHANICAL OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FINISHES, DIMENSIONS OF SLAB DROPS, CHAMFERS, ETC.
4. THE USE OF REPRODUCTIONS OF THE DESIGN STRUCTURAL DRAWINGS FOR SHOP DRAWING PURPOSES IS NOT ACCEPTABLE.
5. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THAT THE NEW STRUCTURE WILL NOT CONFLICT WITH ANY EXISTING UTILITIES. IF CONFLICTS ARISE, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER, AND SHALL STOP THE WORK UNTIL AN APPROPRIATE SOLUTION TO THE CONFLICTS ARE FOUND, AND THE CONTRACTOR IS GIVEN WRITTEN AUTHORIZATION TO PROCEED WITH THE WORK.
6. ALL MISCELLANEOUS ANGLES, CHANNELS, TUBES ETC. REQUIRED FOR THE PRIMARY STRUCTURE ARE AS SHOWN AND SIZED ON THE STRUCTURAL DRAWINGS. ANY ADDITIONAL MISCELLANEOUS MEMBERS REQUIRED FOR SECONDARY SYSTEMS SHALL BE FURNISHED AS REQUIRED AND SIZED AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS. IN THE EVENT THAT THE NUMBER AND SIZE OF SECONDARY BRACING MEMBERS SHOWN GRAPHICALLY ON ANY OTHER DRAWINGS ARE OMITTED, ASSUME 1/3x3/4" (LENGTH AS SCALED) SPACED AT 48" O.C. MAXIMUM FOR BIDDING PURPOSES, ALSO ASSUME ANY TUBES SHOWN BUT NOT SIZED TO BE HSS4x4x1/4" (LENGTH AS SCALED) FOR BIDDING PURPOSES.
7. IN THIS BID, THE CONTRACTOR SHALL INCLUDE AN ALLOWANCE OF 1,000 LBS OF STRUCTURAL STEEL FOR SUPPLEMENTARY STRUCTURAL ELEMENTS, TO BE FURNISHED AND INSTALLED AS DIRECTED BY THE ARCHITECT OR THE STRUCTURAL ENGINEER.

EXISTING CONDITIONS

- 1. ALL EXISTING STRUCTURAL ELEMENTS (SLABS, BEAMS, COLUMNS, ETC.) SHALL REMAIN INTACT.
2. INFORMATION PROVIDED ON THESE DRAWINGS RELATED TO EXISTING CONDITIONS IS BASED ON AVAILABLE DESIGN DOCUMENTS AND LIMITED FIELD OBSERVATION. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO AND AWAIT DIRECTION FROM THE A/E IF ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS IS DISCOVERED.
3. CAUTION SHALL BE USED DURING THE EXISTING CLADDING REMOVING OPERATION. DO NOT DAMAGE OR ALTER EXISTING CLADDING WITHIN CLOSE PROXIMITY TO THE AREAS UNDER CONSTRUCTION. DO NOT DAMAGE EXISTING METAL STUDS AND MISCELLANEOUS STRUCTURAL STEEL DURING DRILLING OR CORING OPERATIONS. DURING WELDING OPERATIONS PROTECT CLADDING, EXISTING METAL STUDS AND MISCELLANEOUS STRUCTURAL STEEL, EXTERIOR SHEATHING AND VAPOR BARRIER AT ALL TIMES. AFTER WORK IS COMPLETED, VERIFIED AND APPROVED BY THE TESTING LAB REPRESENTATIVE THE AREAS UNDER CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL STATE OR BETTER.
4. THIS PROJECT REQUIRES A SIGNIFICANT AMOUNT OF DRILLING INTO THE EXISTING REINFORCED CONCRETE STRUCTURE. THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL PAYMENT FOR DIFFICULTIES ENCOUNTERED IN DRILLING DUE TO HARDNESS OF MATERIALS, HITTING OF EXISTING REINFORCING, ETC. ALL COSTS ASSOCIATED WITH REDRILLING OF HOLES DUE TO HITTING EXISTING REINFORCING STEEL SHALL BE BORNE BY THE CONTRACTOR. THIS INCLUDES FILLING UNNECESSARY AND UNUSED HOLES WITH EPOXY GROUT. DO NOT CUT REINFORCING STEEL DURING CONCRETE DRILLING OR CORING OPERATIONS. LOCATE REINFORCING WITH A PACHOMETER OR OTHER NON-DESTRUCTIVE TESTING DEVICE PRIOR TO DRILLING OR CORING OPERATIONS.
5. CORE DRILLS REQUIRED BY MECHANICAL OR ELECTRICAL TRADES, BUT NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE DOCUMENTED IN SKETCH FORM SHOWING EXACT DIMENSIONS AND LOCATIONS. THE SKETCH SHALL BE SUBMITTED TO THE A/E FOR COMMENT PRIOR TO PROCEEDING WITH THE DRILLING OPERATION.
6. EXISTING CONCRETE SURFACE PREPARATION:
INTENTIONALLY ROUGHEN EXISTING CONCRETE SURFACES WHERE NEW CONCRETE IS BEING PLACED AGAINST THE EXISTING CONCRETE AND CONNECTED BY DRILLING AND EPOXY GROUTING. THE ENTIRE COMMON SURFACE WHERE THE EXISTING CONCRETE ABUTS THE NEW SHALL BE COATED WITH AN EPOXY BONDING AGENT. FOLLOW ALL ADDITIONAL REQUIREMENTS OF SURFACE PREPARATION AS REQUIRED BY THE BONDING AGENT MANUFACTURER.

ARCHITECT:



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REVISIONS:

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KEY PLAN

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Date:

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Sheet Title

STRUCTURAL ABBREVIATIONS AND GENERAL NOTES

Sheet Number S-101

REQUIRED SPECIAL INSPECTIONS

NOTES

- THE OWNER SHALL EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE. INSPECTORS SHALL PERFORM ALL DUTIES AND RESPONSIBILITIES AS REQUIRED BY THE BUILDING CODE. JOB SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR SPECIAL INSPECTIONS.
- THE FOLLOWING SCHEDULE CONTAINS A LIST OF THE SPECIAL INSPECTION ACTIVITIES RELATED TO THE QUALITY ASSURANCE PLAN REQUIRED BY THE 2021 INTERNATIONAL BUILDING CODE (IBC CHAPTER 17) FOR THE FABRICATION, ERECTION AND CONSTRUCTION OF THE STRUCTURAL SYSTEMS AS DESCRIBED IN THE SPECIFICATION AND DRAWINGS FOR THE PROJECT. ALL INSPECTORS SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE FOR THE REQUIRED INSPECTIONS AND TEST PROCEDURES. REFER TO IBC CHAPTER 17 "STRUCTURAL TESTS AND SPECIAL INSPECTIONS", AND SPECIFICATION SECTION 01 45 23 "TESTS AND INSPECTIONS", FOR SPECIFIC TEST PROCEDURES.
- TESTING AND INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER INSPECTIONS ARE MADE ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO THE OWNER, CONTRACTOR, ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING OFFICIAL (IF REQUESTED), FOR THEIR REVIEW, COMMENT, AND ACTION, AS NEEDED.
- ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS REQUIRING SPECIAL INSPECTIONS PER SECTION 1705 OF THE 2021 IBC HAVE NOT BEEN LISTED HERE. REFER TO ARCH/MEP FOR SPECIAL INSPECTION REQUIREMENTS FOR THESE COMPONENTS.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THESE TESTS AND INSPECTIONS ARE PERFORMED.

| STRUCTURAL STEEL | | | | | CONCRETE AND REINFORCING STEEL | | | | | MASONRY CONSTRUCTION (REF TABLE 1.18.3 ACI 530) | | | | |
|---|------------|----------|--|---------------|---|------------|----------|--|--------------------------|---|------------|----------|---------------------|---------------|
| REQUIRED VERIFICATION AND INSPECTION OF STRUCTURAL STEEL (REF TABLE 1705.3 OF IBC) | | | | | GENERAL | | | | | | | | | |
| VERIFICATION AND INSPECTION | CONTINUOUS | PERIODIC | REFERENCED STANDARD | IBC REFERENCE | INSPECTION ITEM REQUIRED | CONTINUOUS | PERIODIC | REFERENCED STANDARD | IBC REFERENCE | VERIFICATION AND INSPECTION | CONTINUOUS | PERIODIC | REFERENCED STANDARD | IBC REFERENCE |
| 1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS | | | | | TAKE CONCRETE SPECIMENS FOR STRENGTH TESTS TO BE PERFORMED IN LAB. A MINIMUM OF FIVE (5) CYLINDERS SHALL BE MADE. TEST TWO AT SEVEN DAYS, TWO AT 28 DAYS. THE FIFTH CYLINDER SHALL BE TESTED AT 28 DAYS IF ONE OR BOTH OF THE 28-DAY CYLINDER RESULTS ARE BELOW STRENGTH, IN ACCORDANCE WITH ACI 214. | | | | | 1. PROPORTIONS OF SITE MIXED MORTAR & GROUT | | | | |
| A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. | - | X | APPLICABLE ASTM MATERIAL STANDARDS, AISC 360, SECTION A3.3 | - | 2. PERFORM CONCRETE STRENGTH TESTING IN LAB | X | - | - | - | 2. COMPLIANCE OF SIZE AND LOCATION OF STRUCTURAL ELEMENTS | X | - | ACI 530: 1.18 | 1705.4 |
| B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. | - | X | - | - | 3. MAINTAIN A SPREADSHEET SHOWING THE DATE, SEQUENTIAL ORDER OF STRENGTH TEST RESULTS AND INDICATE THE RUNNING AVERAGE | X | - | - | - | 3. COMPLIANCE OF TYPE SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. | X | - | ACI 530: 1.18 | 1705.4 |
| C. VERIFY CORRECT STRUCTURAL STEEL MATERIAL DELIVERED TO JOBSITE. | - | X | - | - | 4. OBSERVE FOR PROPER CONCRETE PLACEMENT | X | - | - | - | 4. COMPLIANCE OF PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F.) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREE F.) | - | X | ACI 530: 1.18 | 1705.4 |
| 2. INSPECTION OF HIGH-STRENGTH BOLTING | | | | | REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (REF TABLE 1705.4 OF IBC 2021) | | | | | | | | | |
| A. SNUG-TIGHT JOINTS. | - | X | - | - | VERIFICATION AND INSPECTION | | | | | | | | | |
| B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION. | - | X | AISC 360, SECTION M2.5 | 1705.3.3 | 1. INSPECT PLACEMENT OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS PRIOR TO THE CLOSING OF THE FORMS AND ARRIVAL OF CONCRETE ON-SITE. | - | X | ACI 318: 3.5, 7.1-7.7 | 1910.4 | 5. GRADE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, PRE-STRESSING TENDONS AND ANCHORAGES | X | - | ACI 530: 1.18 | 1705.4 |
| C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION. | X | - | - | - | 2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5b. | X | - | AWS D1.4 ACI 318: 3.5.2 | - | 6. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS | X | - | ACI 530: 1.18 | 1705.4 |
| D. VERIFY CORRECT MATERIAL USED FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS | - | X | - | - | a) VERIFY CORRECT MATERIALS USED INCLUDING THE USE OF A706 IN WELDED SPLICES, IF ANY. | - | X | - | - | 7. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRE-STRESSING TENDONS AND ANCHORS | X | - | ACI 530: 1.18 | 1705.4 |
| 3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK: | | | | | | | | | | | | | | |
| A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360. | - | X | AISC 360 SECT. M5.5 | - | 3. INSPECT BOLTS AND RODS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE | X | - | ACI 318: 8.1.3, 21.2.8 | 1908.5, 1909.1 | 8. GROUT SPACE PRIOR TO GROUTING | - | X | ACI 530: 1.18 | 1705.4 |
| B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. | - | X | APPLICABLE ASTM STANDARDS | - | 4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE. | - | X | ACI 318: 3.8.6, 8.1.3, 21.2.8 | 1909.1 | 9. PLACEMENT OF GROUT AND PRE-STRESSING GROUT FOR BONDED TENDONS | X | - | ACI 530: 1.18 | 1705.4 |
| C. MANUFACTURER'S CERTIFIED TEST REPORTS. | - | X | - | - | 5. VERIFY USE OF REQUIRED DESIGN MIX. | X | - | ACI 318: CH. 4, 5.2-5.4 | 1904.2.2, 1910.2, 1910.3 | 10. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS | X | - | ACI 530: 1.18 | 1705.4 |
| 4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: | | | | | | | | | | | | | | |
| A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. | - | X | AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS | - | 6. AT TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | X | - | ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8 | 1910.10 | 11. SUBMITTALS FOR MATERIALS USED IN MASONRY CONSTRUCTION INDICATING COMPLIANCE WITH THE CONTRACT DOCUMENTS | - | X | ACI 530: 1.18 | 1705.4 |
| B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED. | - | X | - | - | 7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. | X | - | ACI 318: 5.9, 5.10 | 1910.6, 1910.7, 1910.8 | 12. VERIFICATION OF F'M AND F'AC IN ACCORDANCE WITH ARTICLE 1.4B PRIOR TO CONSTRUCTION FOR EVERY 5000 SF OF CONSTRUCTION | X | - | ACI 530: 1.18 | 1705.4 |
| C. VERIFY CORRECT FILLER MATERIAL USED IN WELDS | - | X | - | - | 8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. | - | X | ACI 318: 5.11-5.13 | 1910.9 | 13. VERIFICATION OF PROPORTIONS OF MATERIALS IN PRE-MIXED OR PRE-BLENDED MORTAR & GROUT, AS DELIVERED TO THE SITE. | - | X | ACI 530: 1.18 | 1705.4 |
| 5. INSPECTION OF WELDING: | | | | | | | | | | | | | | |
| A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK: | | | | | | | | | | | | | | |
| 1) ULTRASONIC OR MAGNETIC PARTICLE TESTING ON ALL FULL PENETRATION WELDS | X | - | - | - | 9. ERECTION OF PRECAST CONCRETE MEMBERS. | - | X | ACI 318: CH. 16 | - | | | | | |
| 2) PARTIAL JOINT PENETRATION GROOVE WELDS | X | - | - | - | 10. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. | - | X | ACI 318: 6.2 | - | | | | | |
| a) PERFORM LIQUID DYE PENETRATION TESTING ON 20% OF PARTIAL PENETRATION GROOVE WELDS | - | X | - | - | 11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. | - | X | ACI 318: 6.1.1 | - | | | | | |
| 3) MULTIPASS FILLET WELDS. | X | - | - | - | REQUIRED VERIFICATION AND INSPECTION OF SOILS (REF TABLE 1705.7 OF IBC 2021) | | | | | | | | | |
| a) PERFORM LIQUID DYE PENETRATION TESTING ON 20% OF MULTIPASS FILLET WELDS | - | X | - | - | VERIFICATION AND INSPECTION | | | | | | | | | |
| 4) SINGLE-PASS FILLET WELDS > 3/8" | X | - | - | - | 1. VERIFY MATERIALS BELOW SHALLOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. | - | X | - | - | | | | | |
| 5) PLUG AND SLOT WELDS. | X | - | - | - | 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. | - | X | - | - | | | | | |
| 6) SINGLE-PASS FILLET WELDS < = 3/8" | - | X | - | - | 3. PERFORM CLASSIFICATIONS AND TESTING OF CONTROLLED FILL MATERIALS. | - | X | - | - | | | | | |
| 7) FLOOR AND ROOF DECK WELDS. | - | X | - | - | 4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT OF CONTROLLED FILL | X | - | - | - | | | | | |
| B. REINFORCING STEEL: | | | | | | | | | | | | | | |
| 1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706. | X | - | - | - | 5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | - | X | - | - | | | | | |
| 2) SHEAR REINFORCEMENT. | X | - | AWS D1.4 ACI 318: 3.5.2 | - | REQUIRED VERIFICATION AND INSPECTION OF SPRAY FIRE PROTECTION MATERIAL | | | | | | | | | |
| 3) OTHER REINFORCING STEEL | - | X | - | - | VERIFICATION AND INSPECTION | | | | | | | | | |
| C. VISUALLY INSPECT ALL WELDS | - | X | - | - | 1. INSPECT SURFACE PREPARATION OF MEMBERS | X | - | - | - | | | | | |
| D. VERIFY JOINT WELD PROCEDURES IN ACCORDANCE WITH AWS | - | X | AWS D1.1 | - | 2. INSPECT APPLICATION CONDITIONS AND APPLIED THICKNESS | X | - | - | - | | | | | |
| E. VERIFY CONTRACTOR'S RECEIPT OF WELDER CERTIFICATES | - | X | - | - | 3. TEST DENSITY AND BONDING STRENGTH & THICKNESS AT 10% OF ALL BEAMS, COLUMNS & BRACES | - | - | - | X | | | | | |
| 6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE: | | | | | | | | | | | | | | |
| A. DETAILS SUCH AS BRACING AND STIFFENING. | - | X | - | - | REQUIRED VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS (REF TABLE 1705.8 OF IBC 2021) | | | | | | | | | |
| B. MEMBER LOCATIONS. | - | X | - | 1705.3.2 | VERIFICATION AND INSPECTION | | | | | | | | | |
| C. APPLICATION OF JOINT DETAILS AT EACH LOCATION. | - | X | - | - | 1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT. | X | - | - | - | | | | | |
| 7. WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL CONFORM TO THE SPECIAL INSPECTION REQUIREMENTS OF IBC SECTION 1704, AS SUMMARIZED ABOVE, UNLESS THE FABRICATOR HAS BEEN APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.2. | | | | | | | | | | | | | | |
| 8. OBSERVE AND TEST FIELD APPLIED HEADED STUDS | - | X | - | - | 2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARINGS STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES. | X | - | - | - | | | | | |
| 9. VERIFY FABRICATOR CERTIFICATION | - | X | - | - | 3. FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.4 | - | - | - | X | | | | | |

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2020 Bond Program
Mark Twain School for the Talented and Gifted
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100% CONSTRUCTION DOCUMENTS

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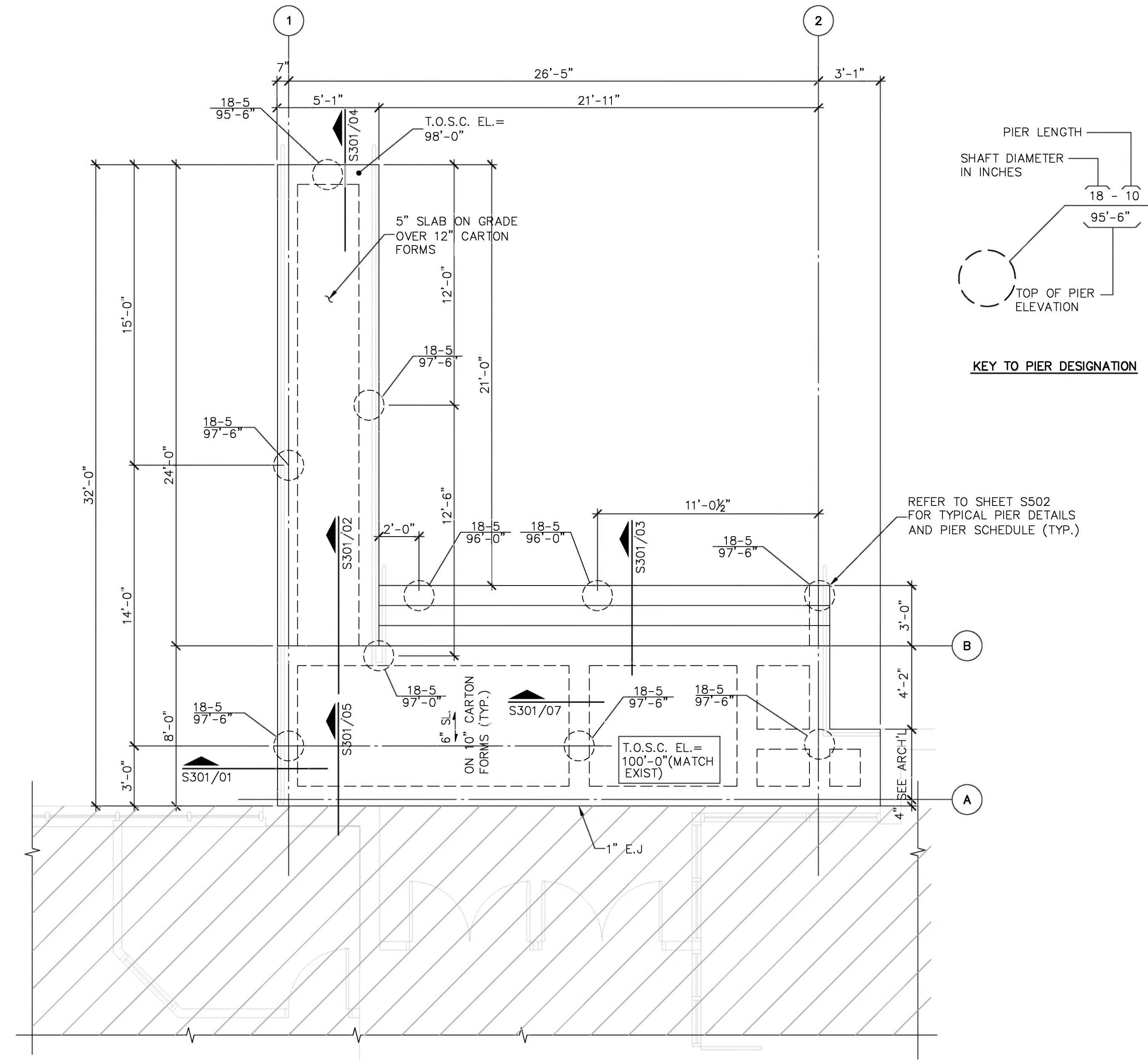
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REQUIRED SPECIAL INSPECTIONS

Sheet Number **S-101**



01 FOUNDATION PLAN
 SCALE: 1/4"=1'-0"

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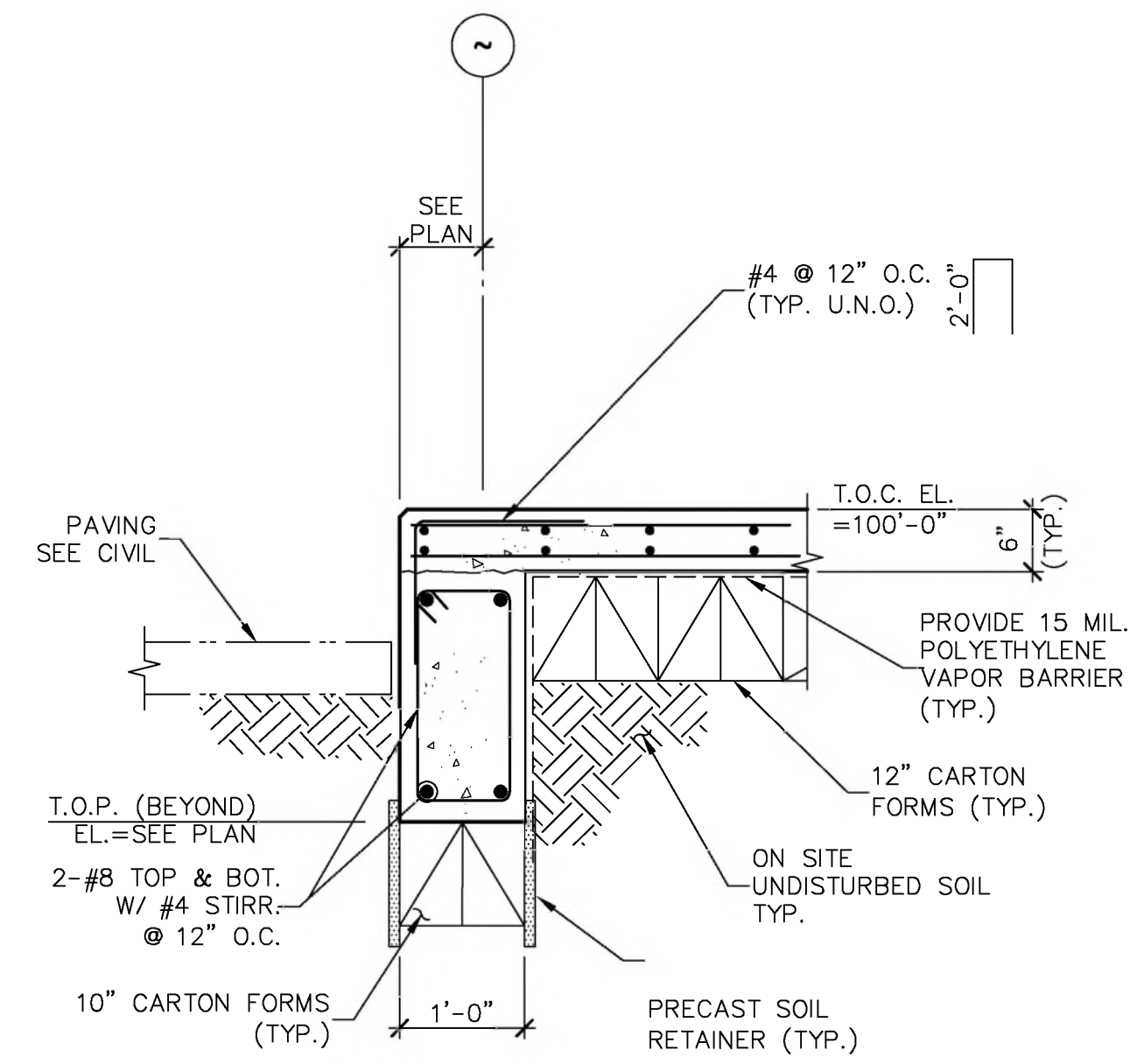
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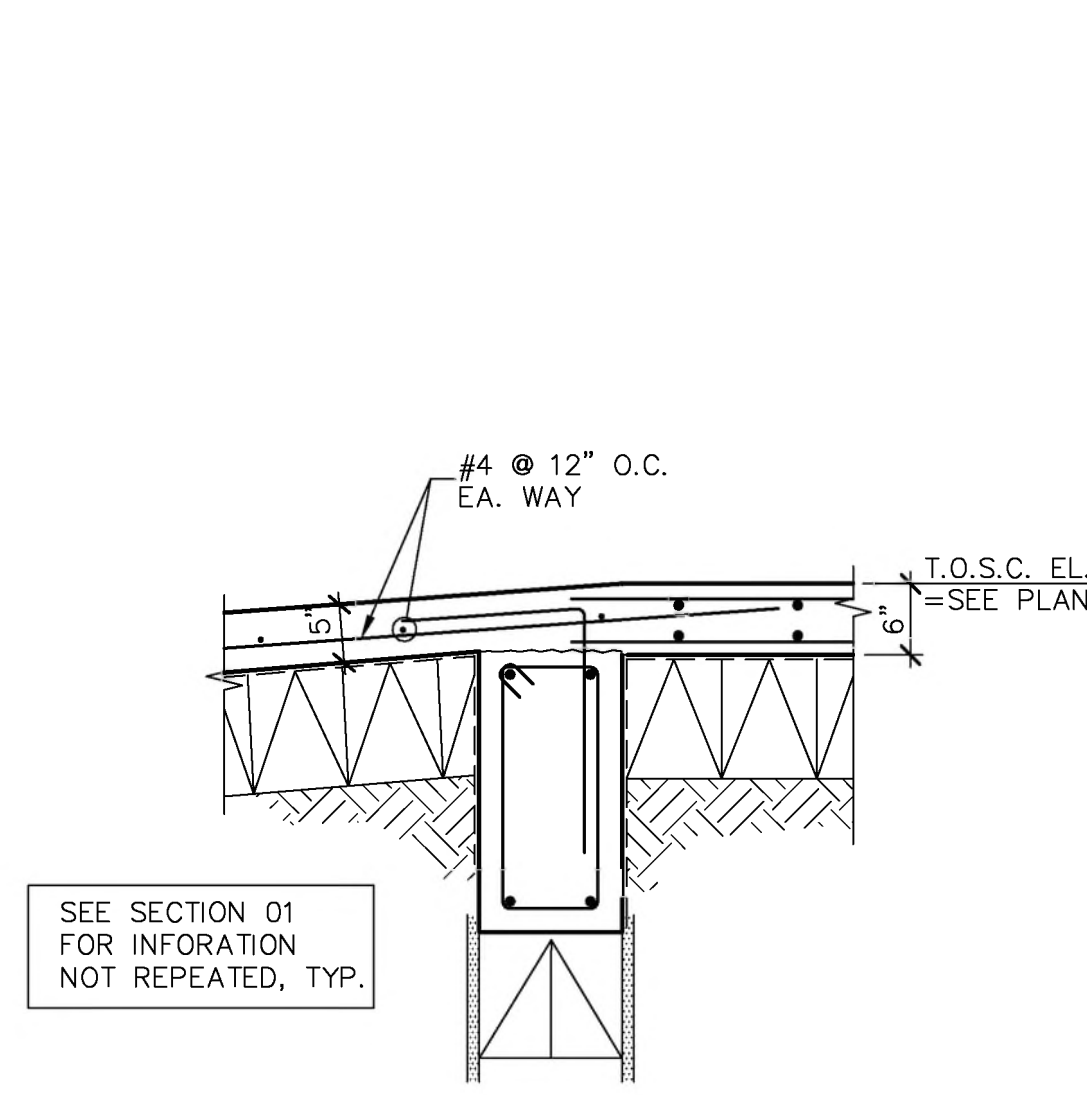
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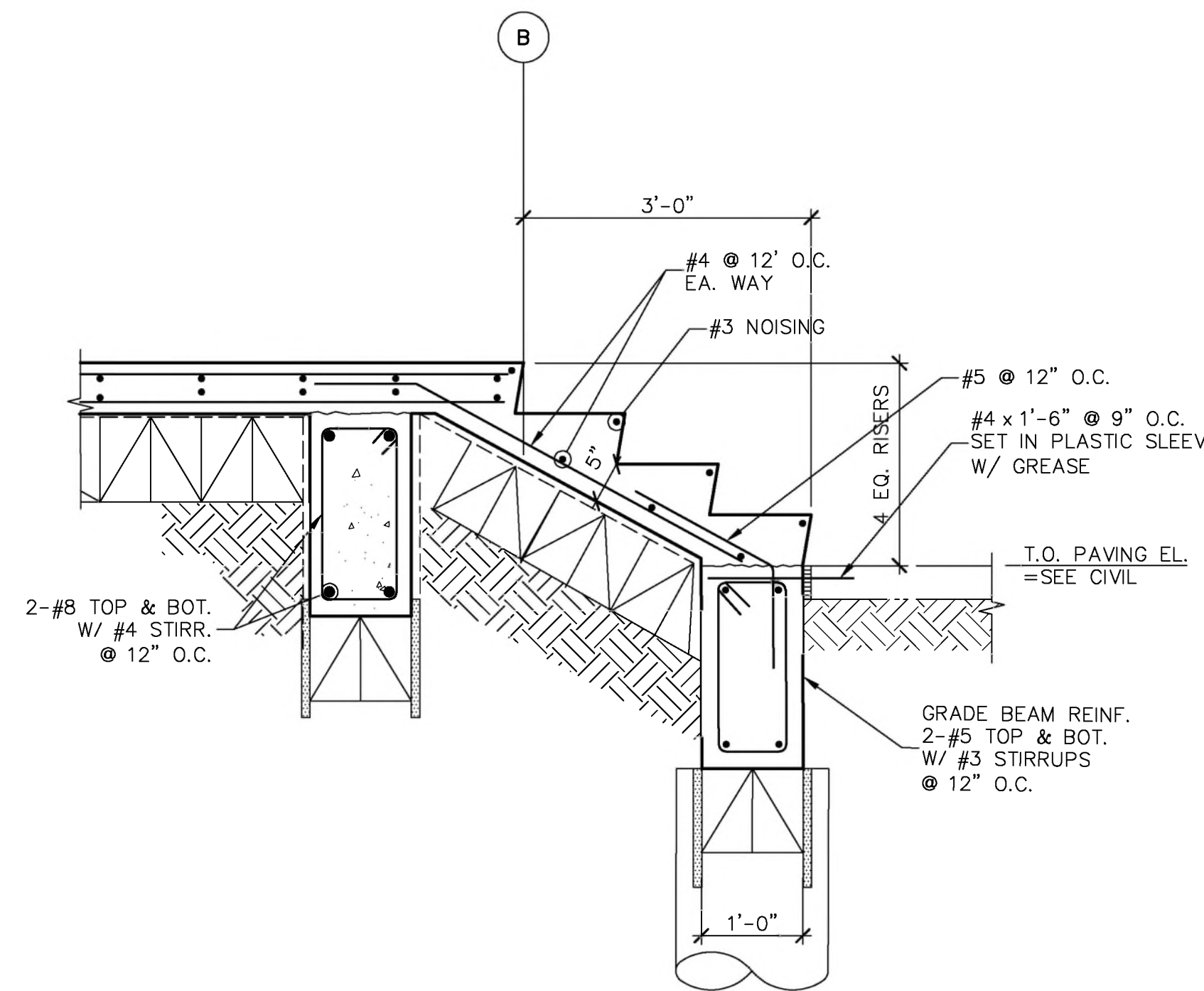
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**FOUNDATION PLAN
 ROOF FRAMING PLAN**
 Sheet Number
S-201



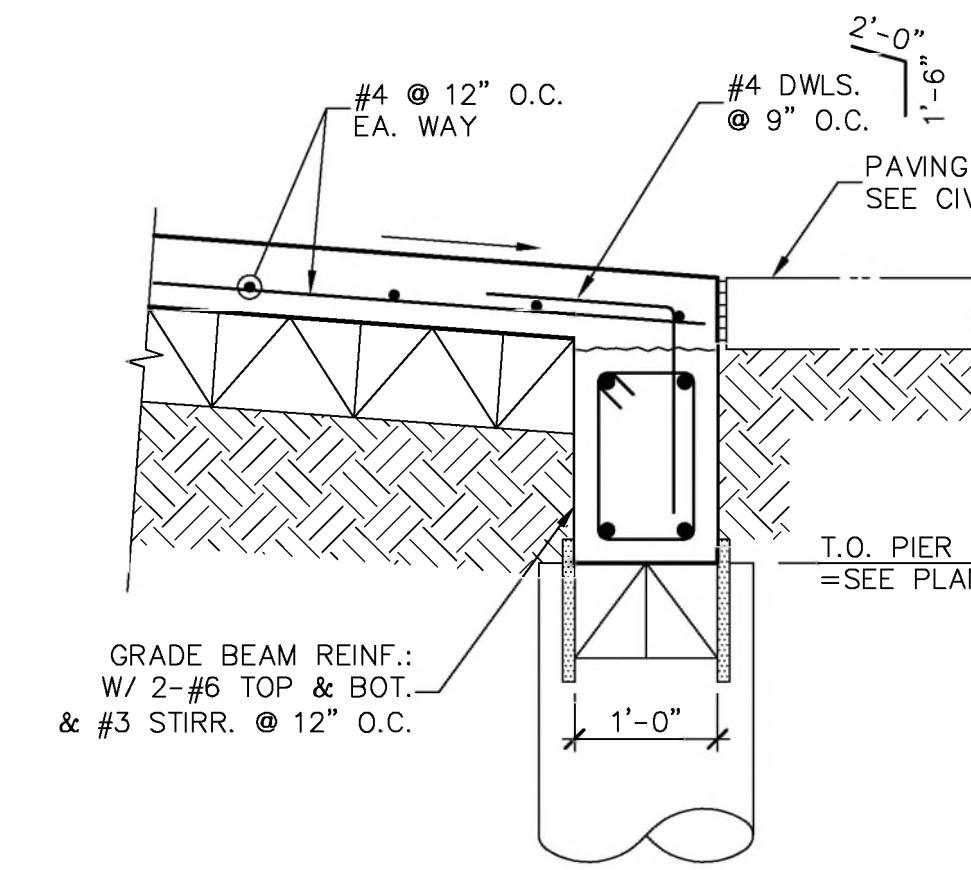
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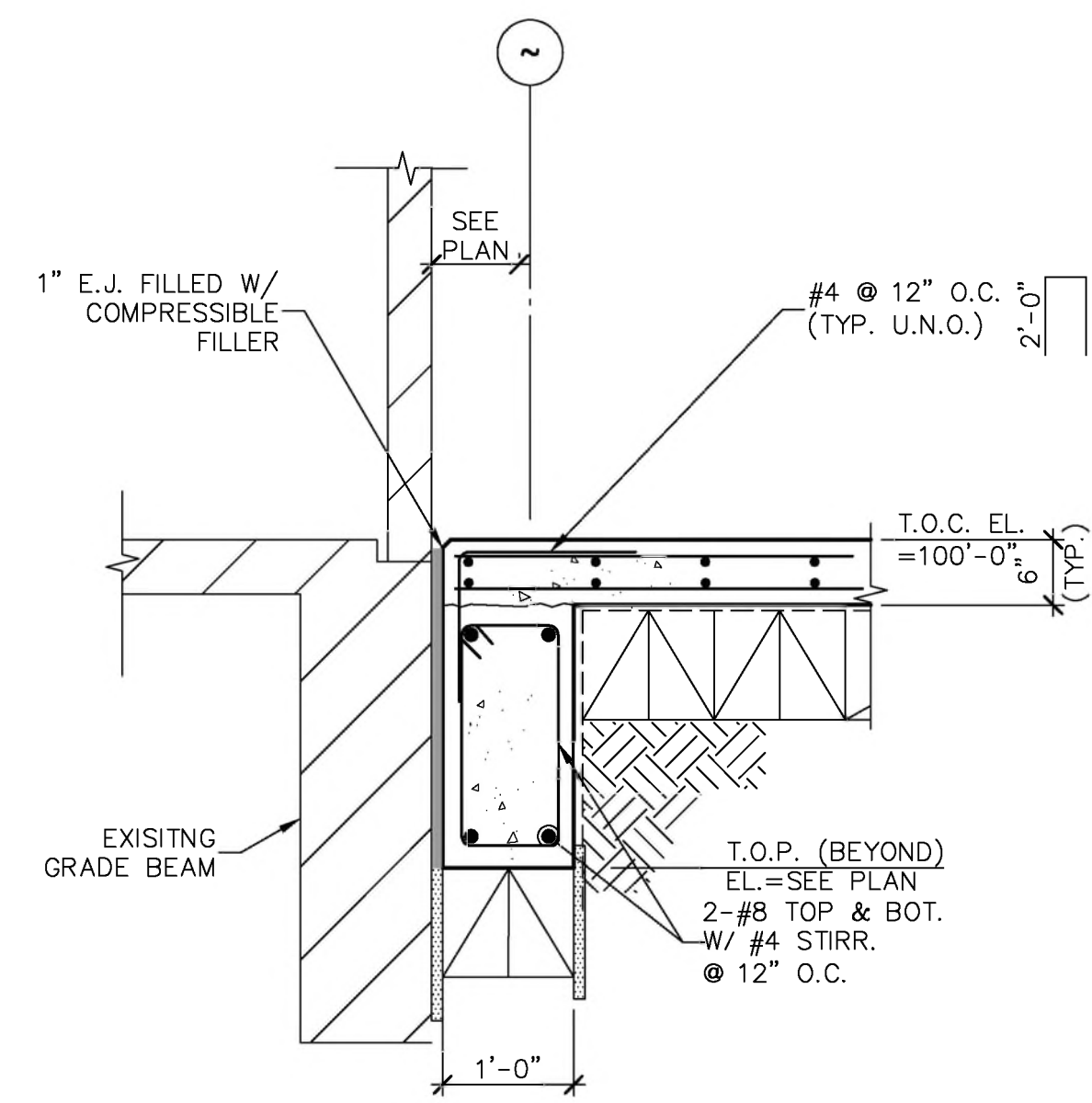
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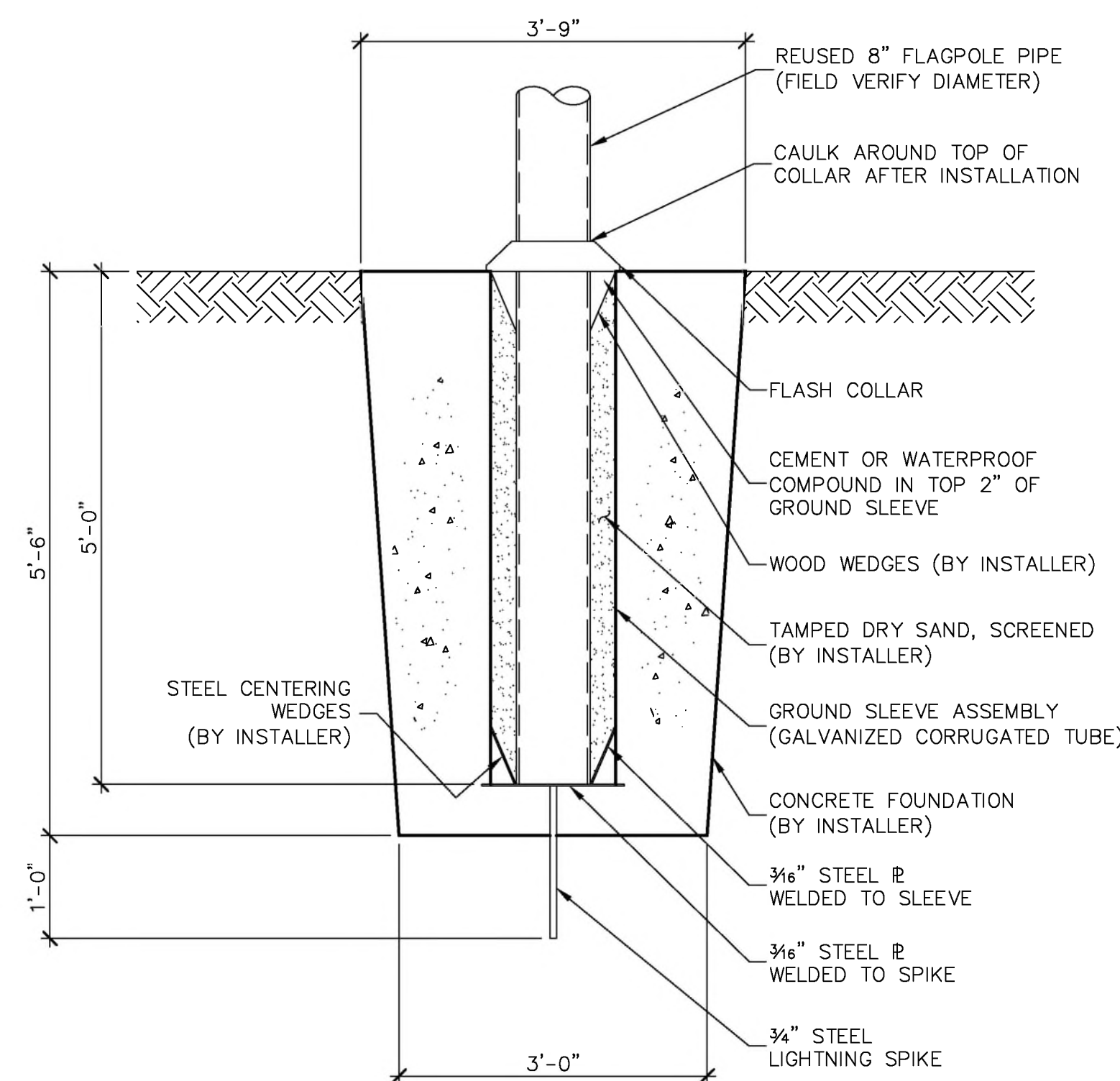
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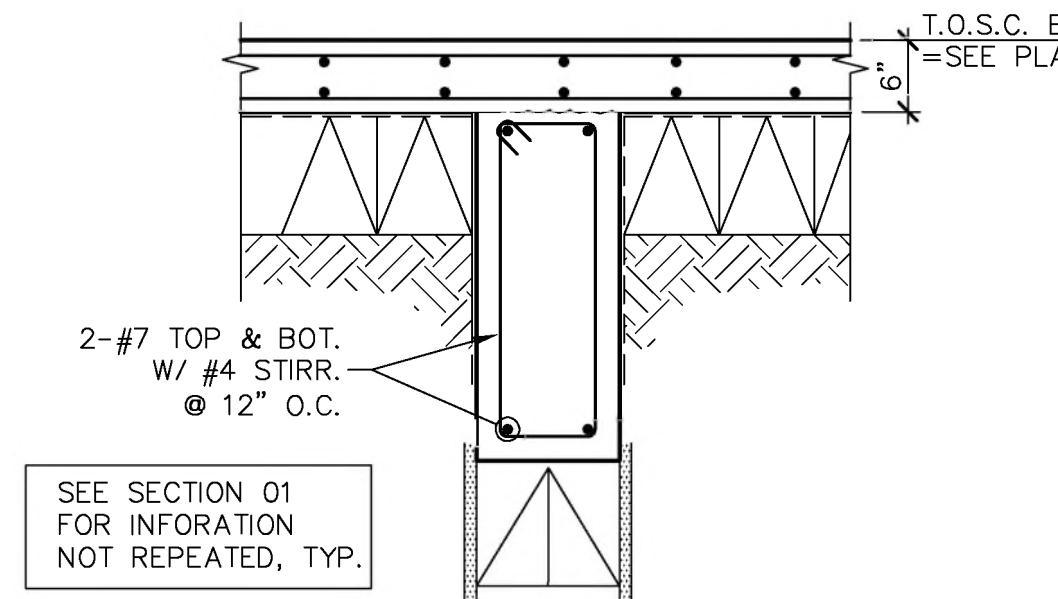
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05 SECTION
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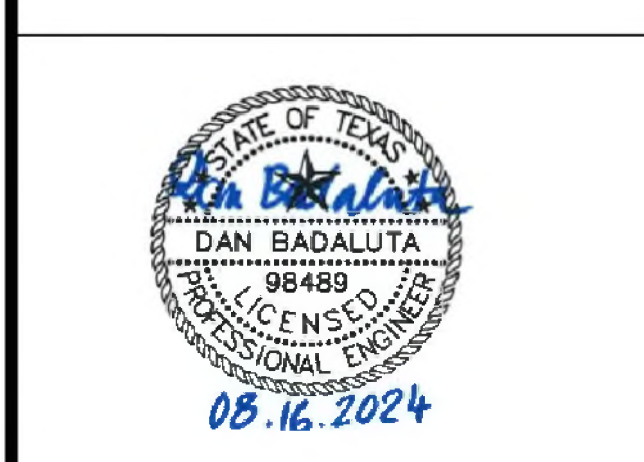
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07 SECTION
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KEY PLAN

JMA Project Number:
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 Sheet Title
NEW MARQUEE SIGN SECTIONS AND DETAILS
 Sheet Number
S301

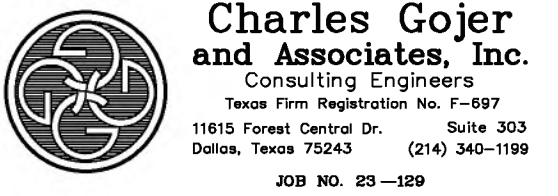
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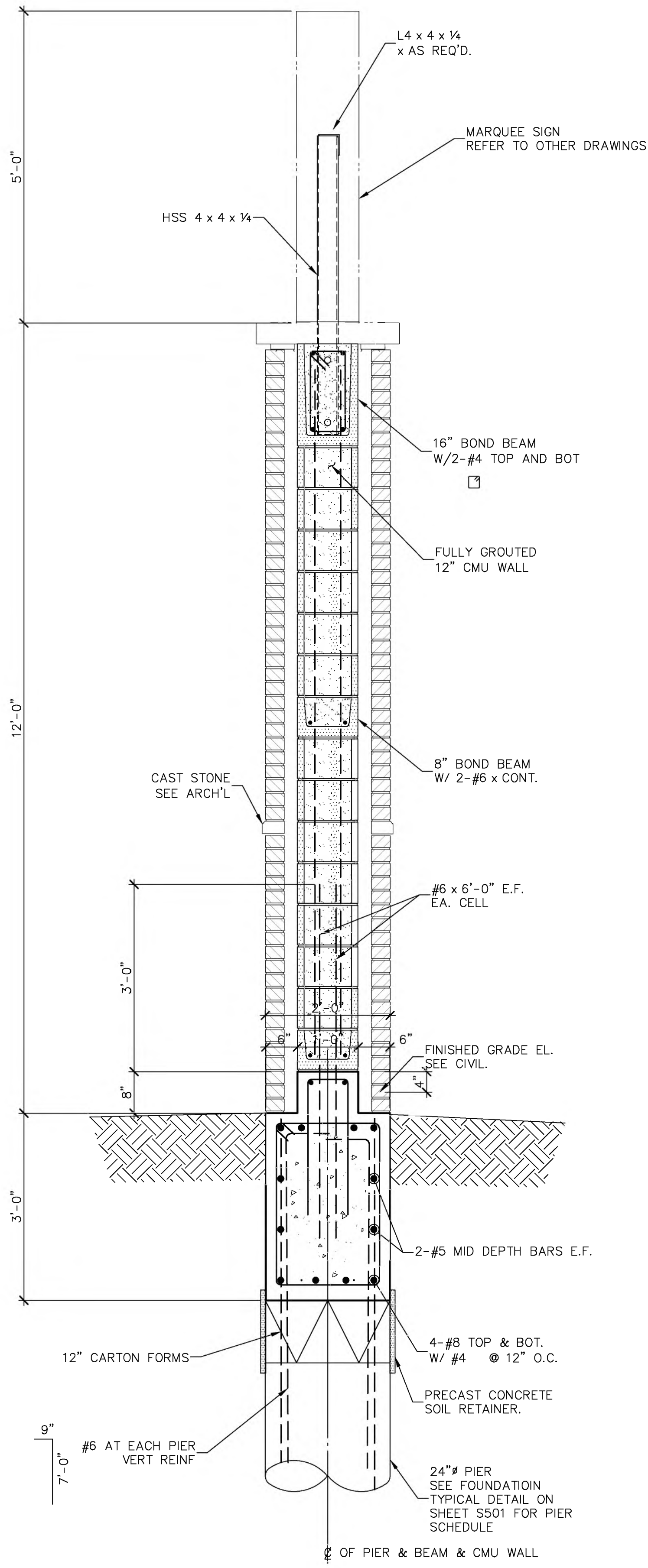
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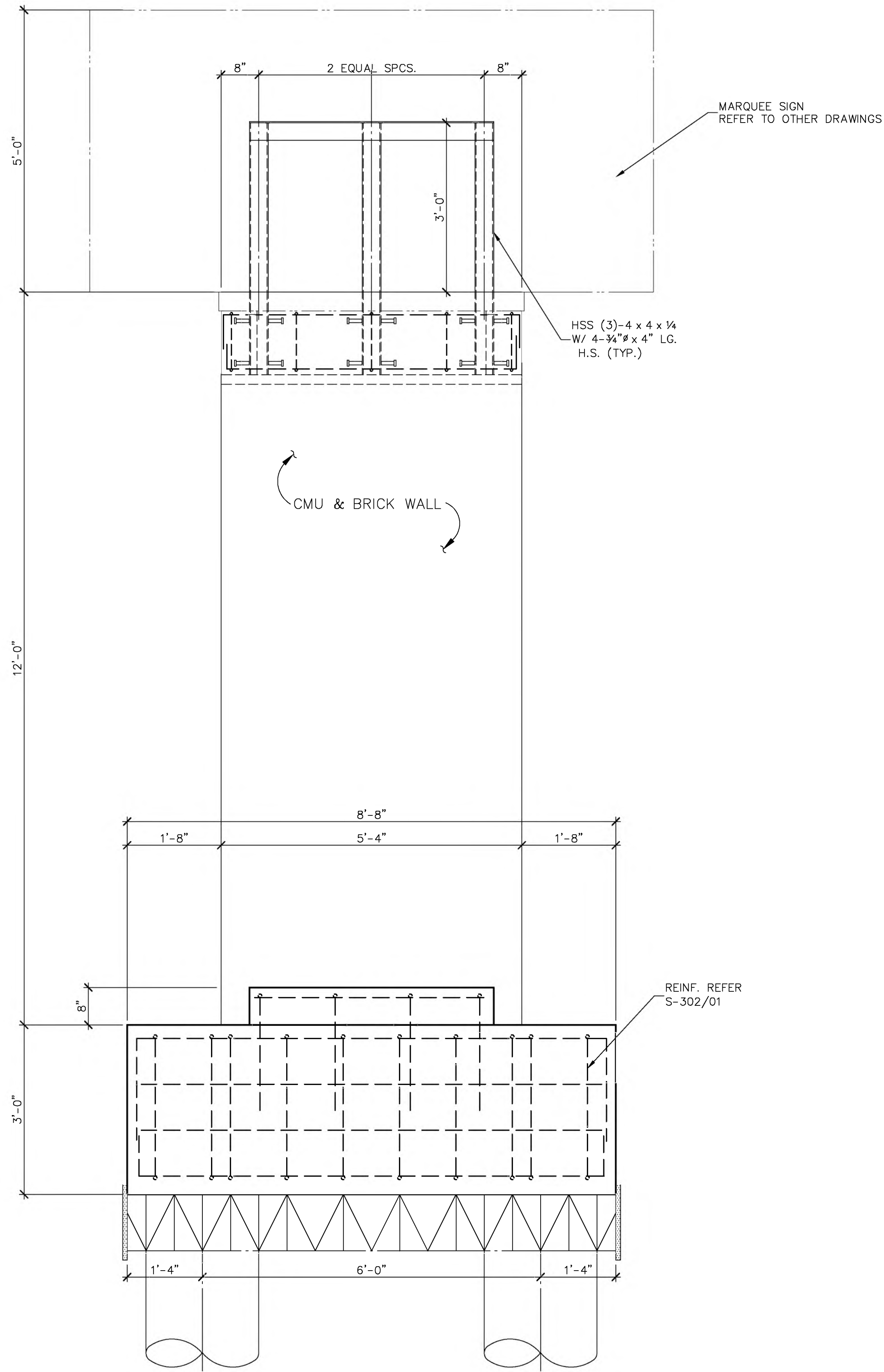
NEW MARQUEE SIGN SECTIONS AND DETAILS

Sheet Number

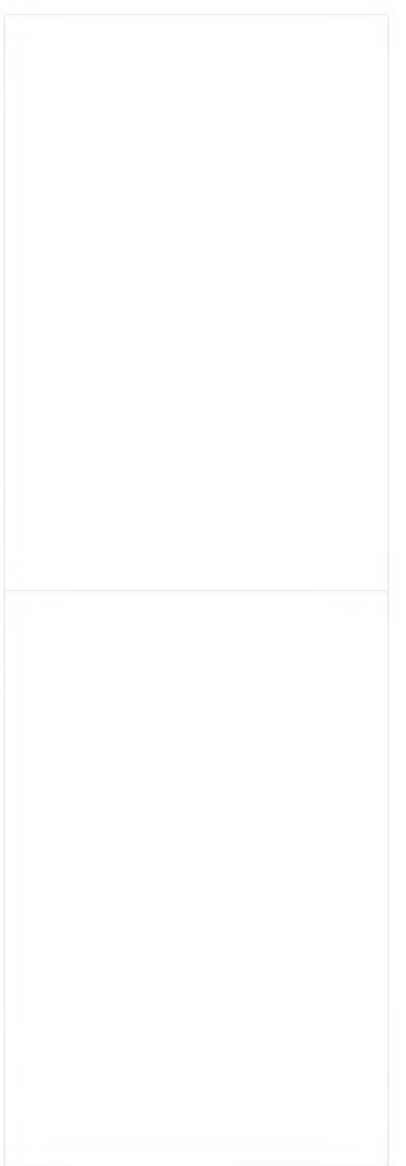
S-302

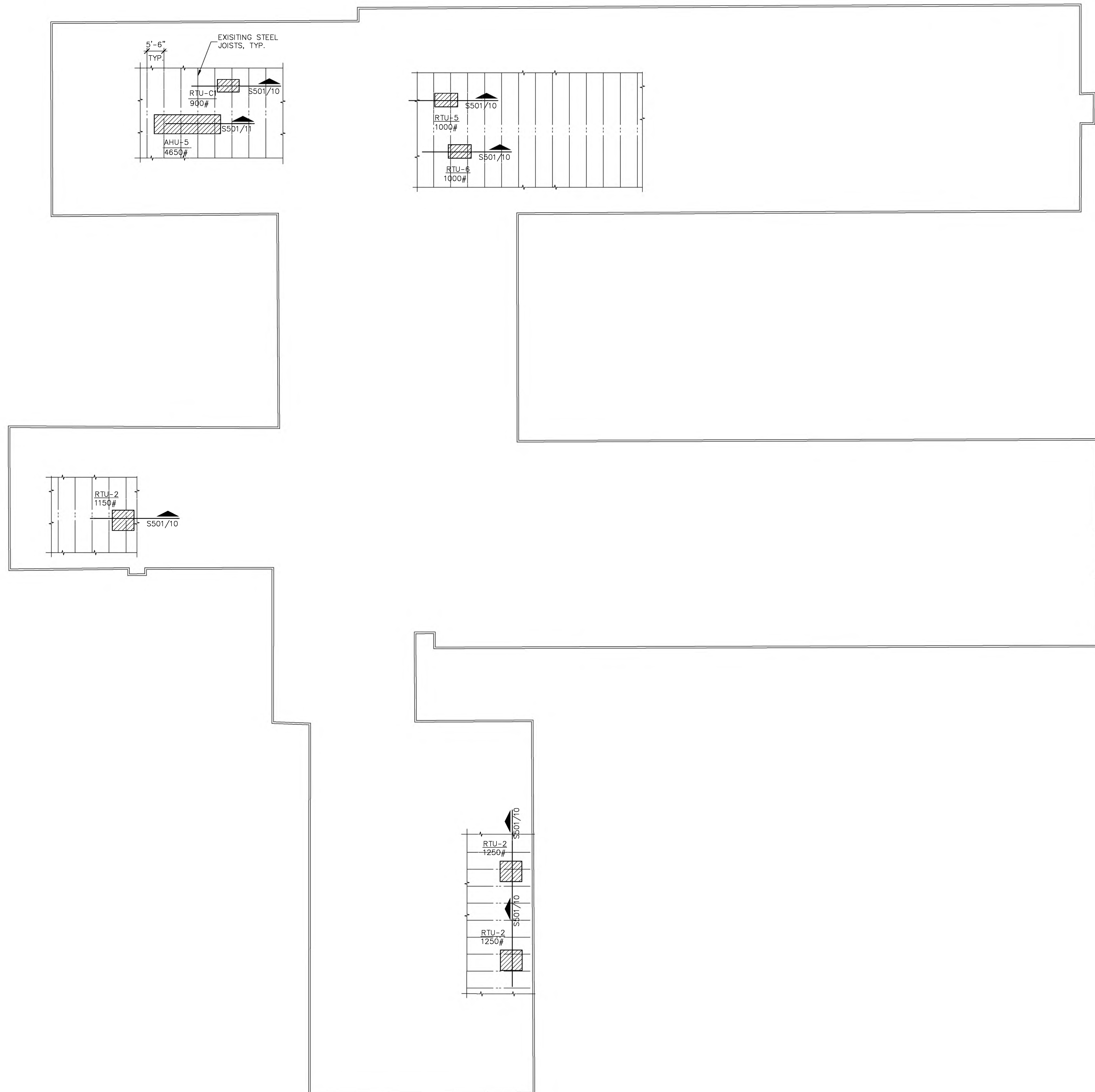


01 MARQUEE SIGN SECTION
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02 MARQUEE SIGN ELEVATION
SCALE: 3/4"=1'-0"





PLAN NOTES

1. THIS PLAN SHOWS THE NEW HVAC UNITS TO BE INSTALLED ON TOP OF THE EXISTING ROOF, BASED ON THE CORRESPONDING MEP DRAWINGS. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO SHOW ALL THE NEW HVAC UNITS REQUIRED BY THE MEP DRAWINGS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE ACTUAL NUMBER, SIZE, WEIGHT AND LOCATION OF THE UNITS TO BE INSTALLED ARE AS DESIGNED AND SHOWN BY THE MEP CONSULTANTS.
2. DESIGN OF RTU STRUCTURAL SUPPORT IS BASED ON THE SIZES, WEIGHTS AND LOCATIONS SHOWN ON THIS SHEET AND THE MECHANICAL ROOFTOP UNIT TABLE. IF THERE IS A VARIATION TO ANY OF ANY OF THESE FACTORS, THE STRUCTURAL ADEQUACY OF THE EXISTING SYSTEM WILL NEED TO BE REVIEWED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL ALSO REPORT ANY VARIATIONS IN THE EXISTING CONDITIONS TO THE STRUCTURAL ENGINEER FOR EVALUATION BEFORE COMMENCING WORK.
3. ROOF OPENINGS ARE TO OCCUR BETWEEN STEEL OR CONCRETE JOIST/BEAMS AT NO POINT IS A JOIST OR BEAM TO BE CUT TO ACCOMMODATE OPENINGS.
4. RTU UNITS ARE TO BE DISTRIBUTED OVER AT LEAST THREE JOISTS. (AS SHOWN)
5. ALL RTU WEIGHTS SHOWN ARE TOTAL OPERATING WEIGHTS INCLUDING THE WEIGHTS OF ACCESSORIES AND CURBS.

01 NEW ROOF TOP UNIT PLAN
SCALE: 1/16"=1'-0"

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 2020 Bond Program
 Mark Twain School for the Talented and Gifted
 724 Green Cove Lane - Dallas, Texas 75232
100% CONSTRUCTION DOCUMENTS

REVISIONS:

| NO. | DATE | ISSUE: |
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KEY PLAN

JMA Project Number:

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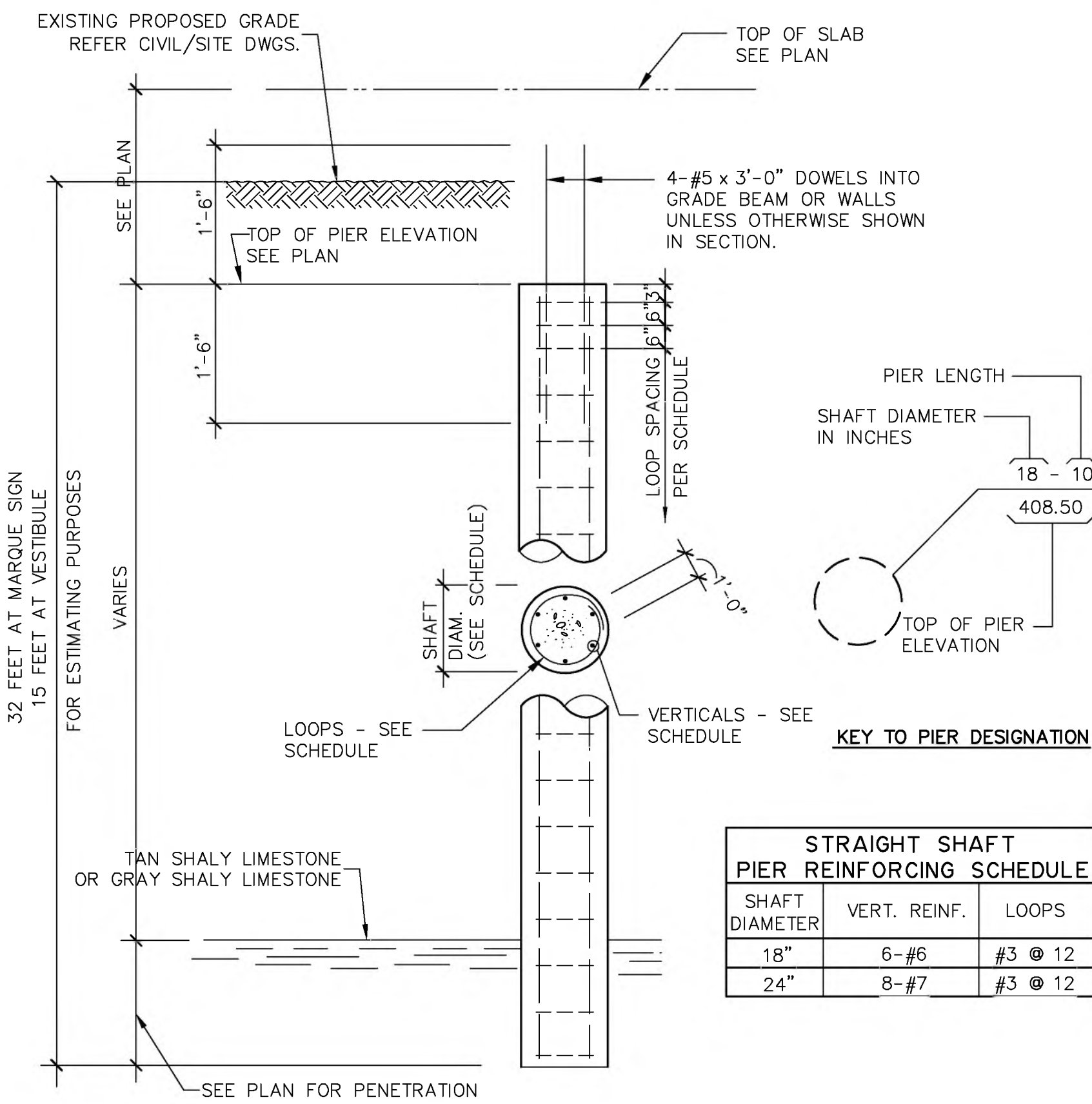
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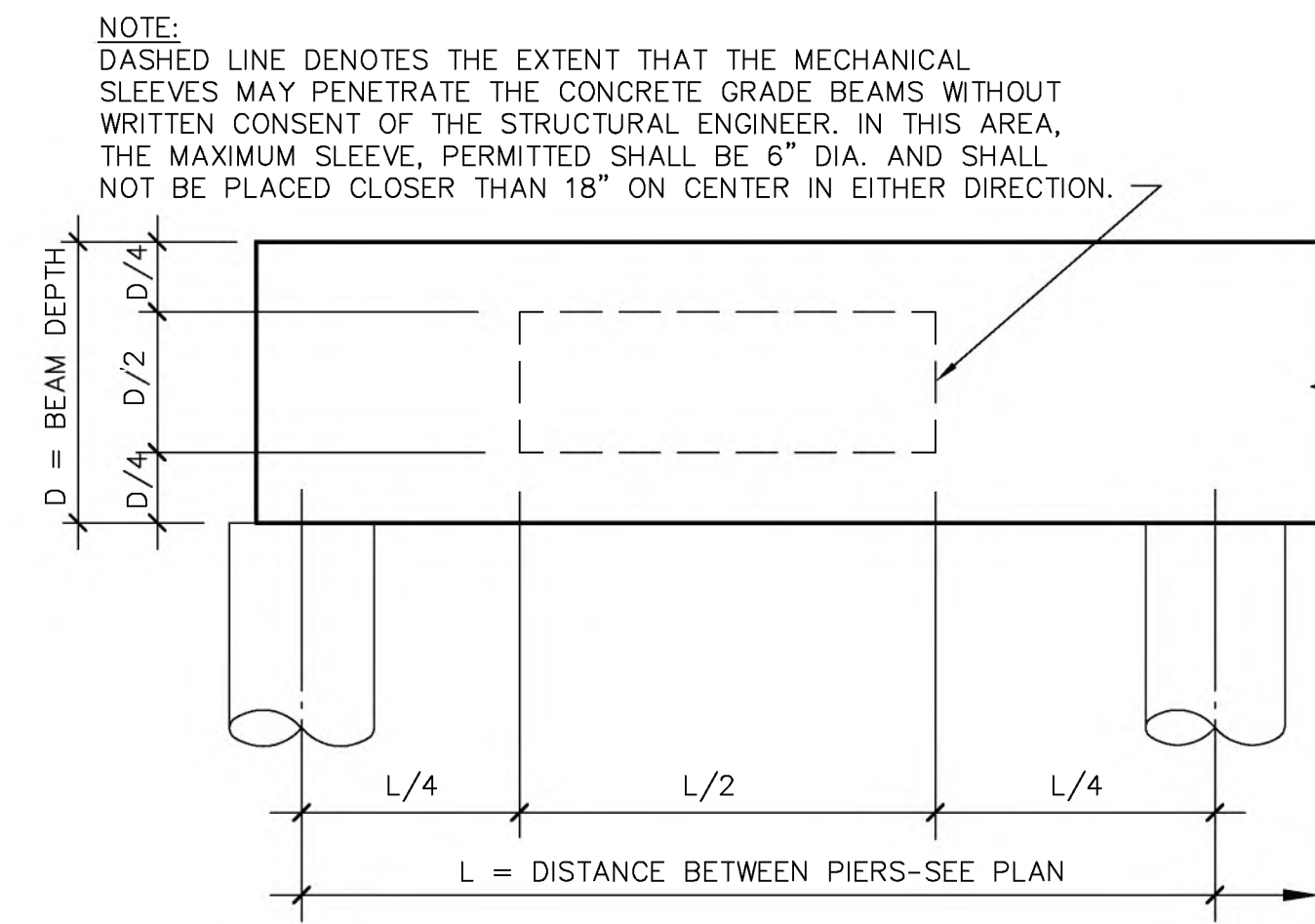
**EXISTING ROOF AND
NEW ROOF TOP UNITS**

Sheet Number

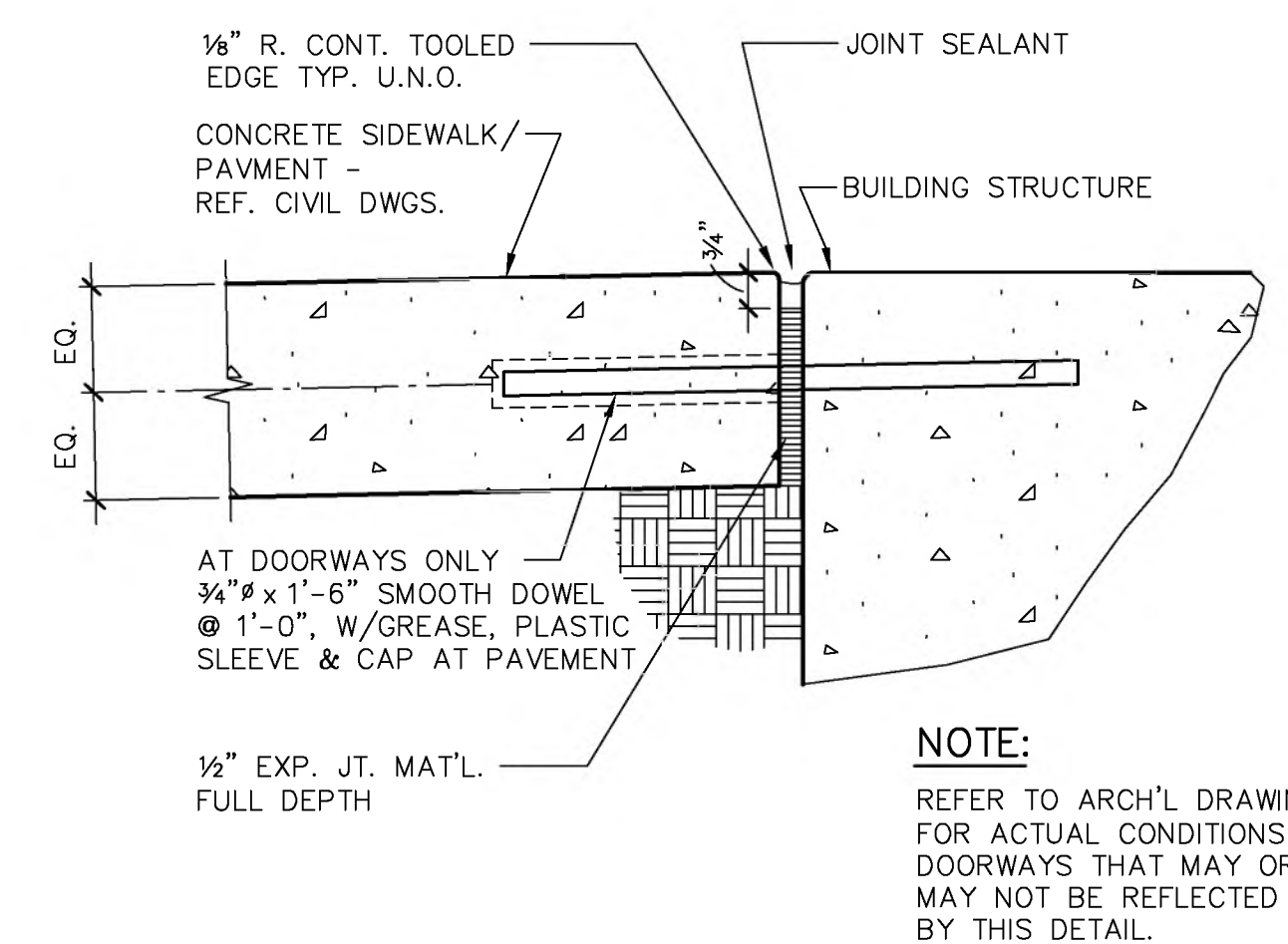
S401



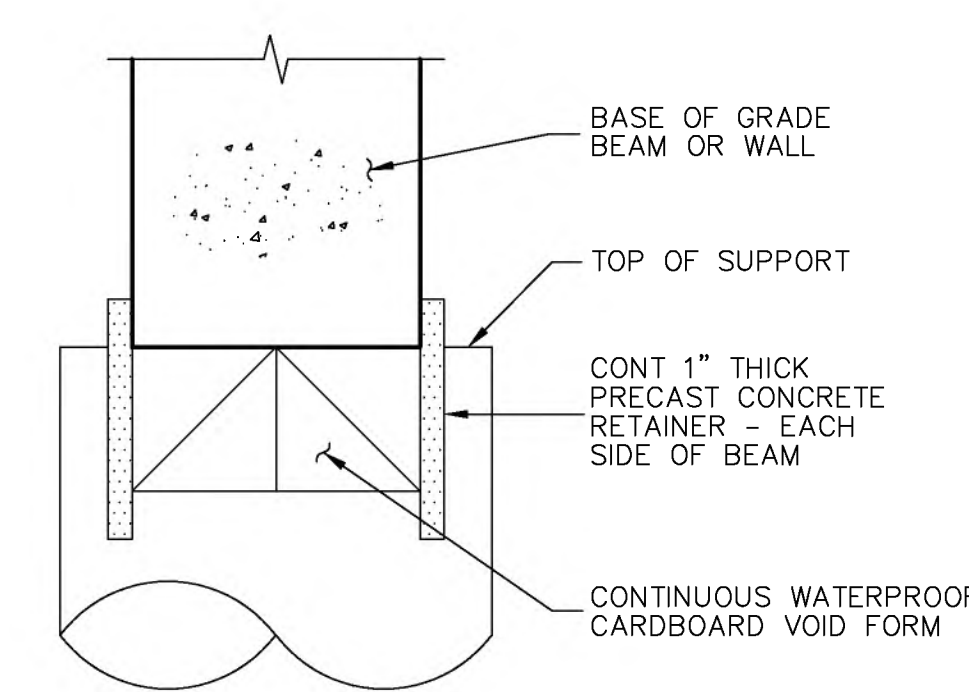
01 TYPICAL STRAIGHT SHAFT DRILLED PIER
SCALE: NO SCALE



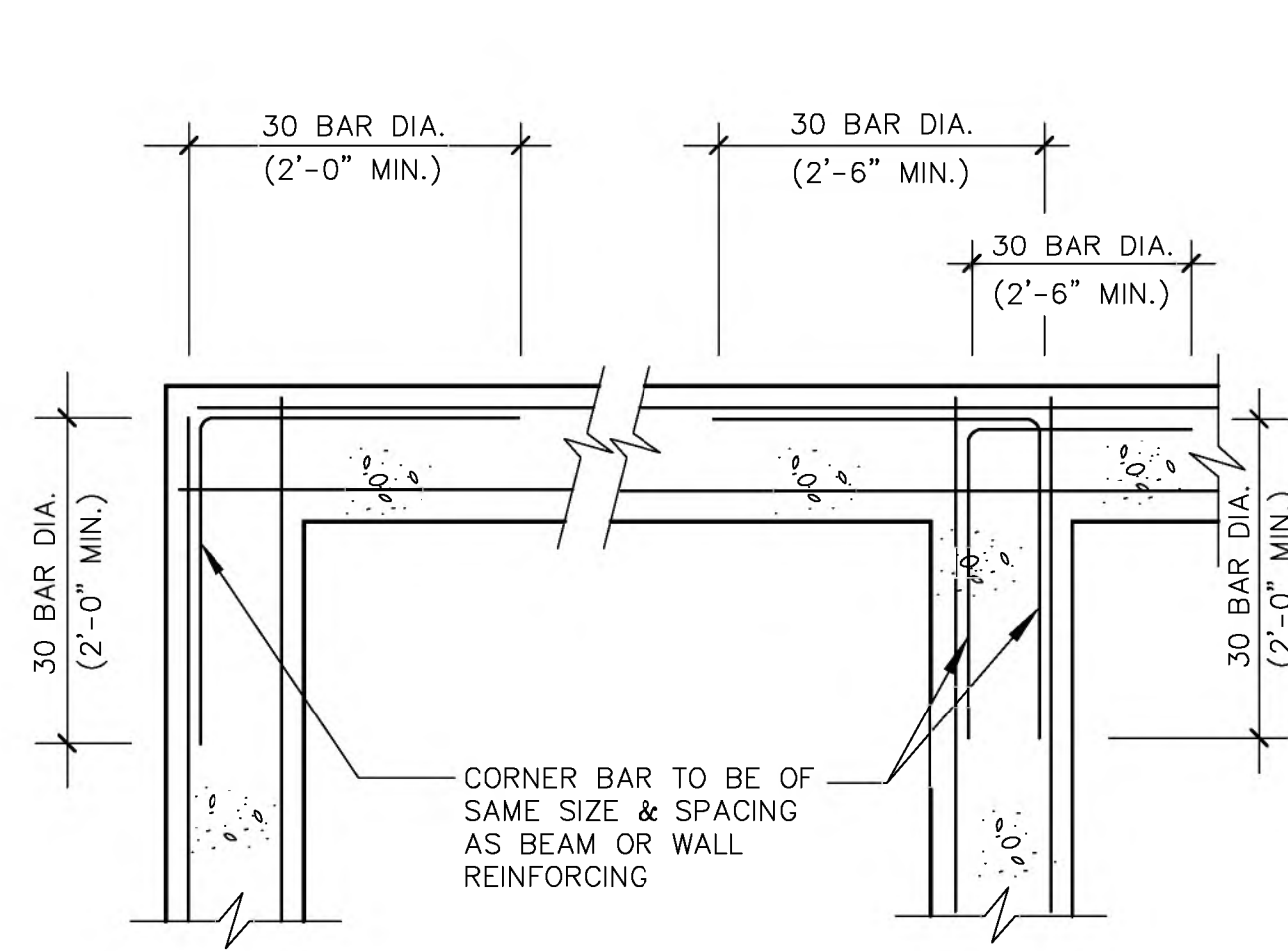
02 TYPICAL DETAIL
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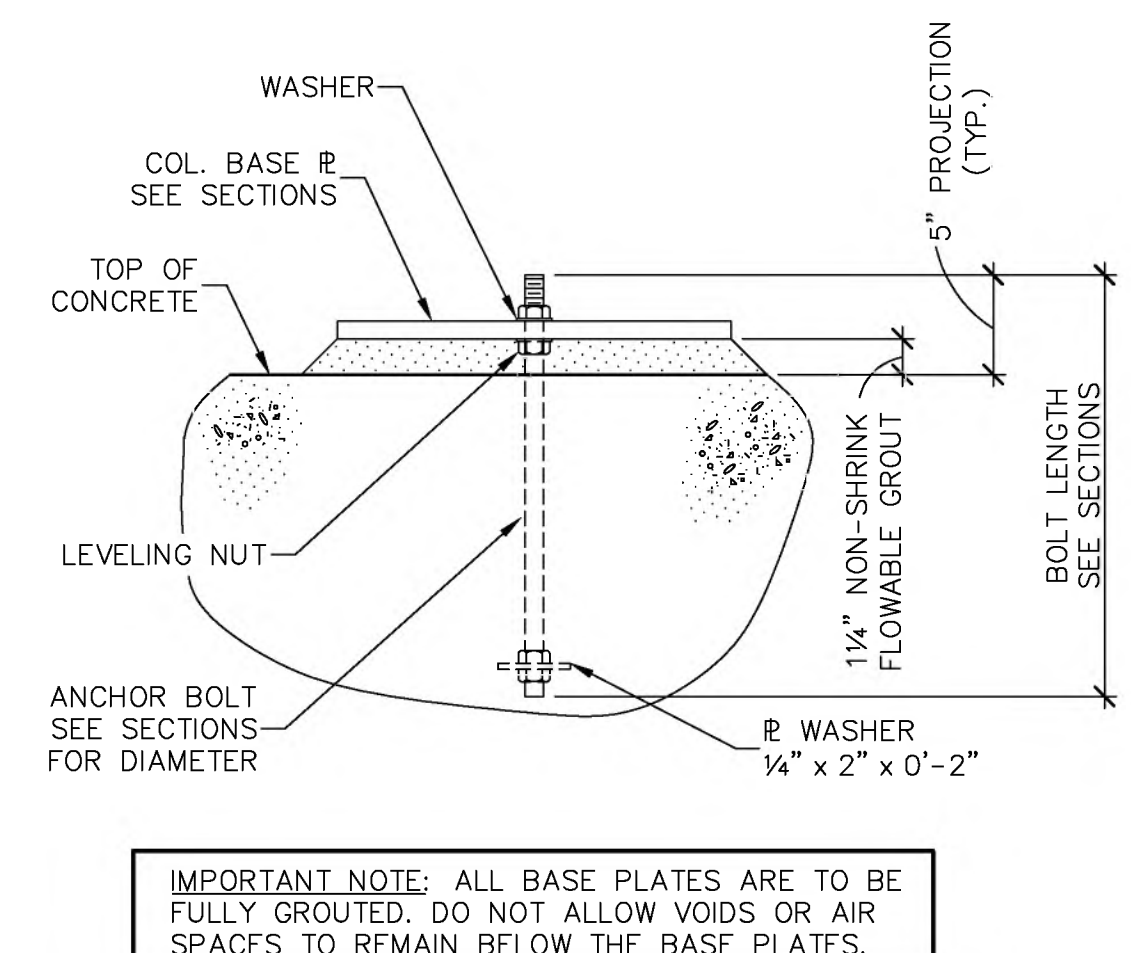
03 TYPICAL DETAIL
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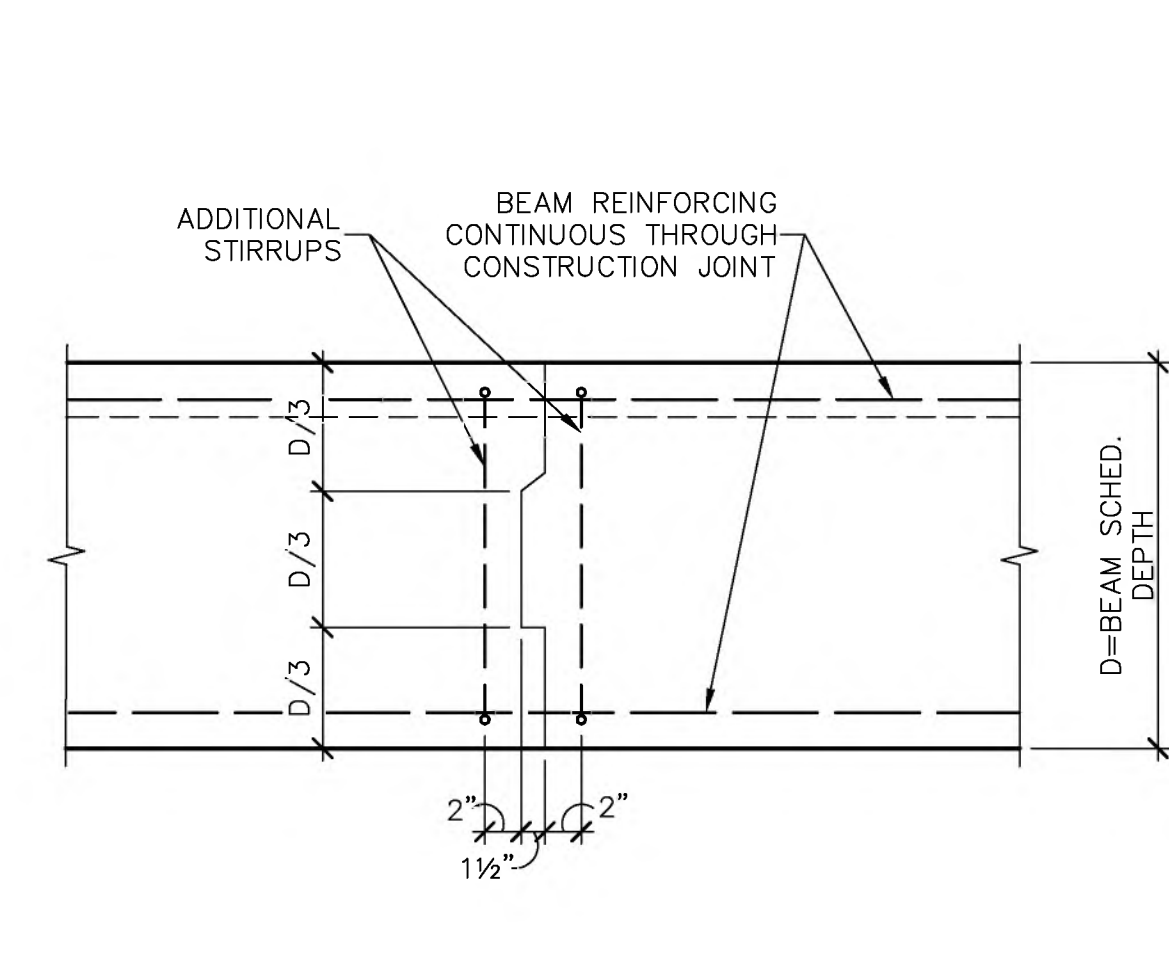
04 TYPICAL DETAIL
SCALE: NO SCALE



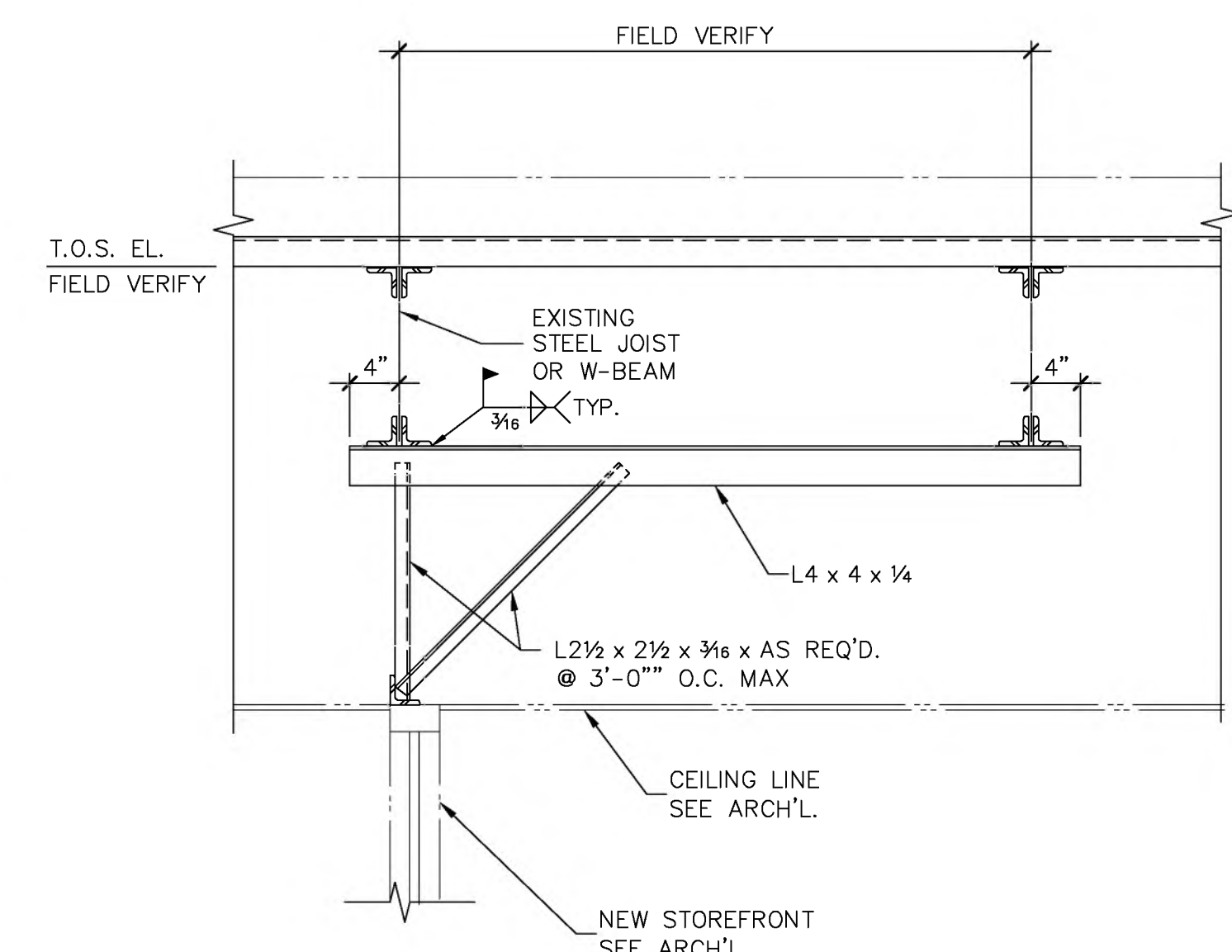
05 TYPICAL DETAIL
SCALE: N/A



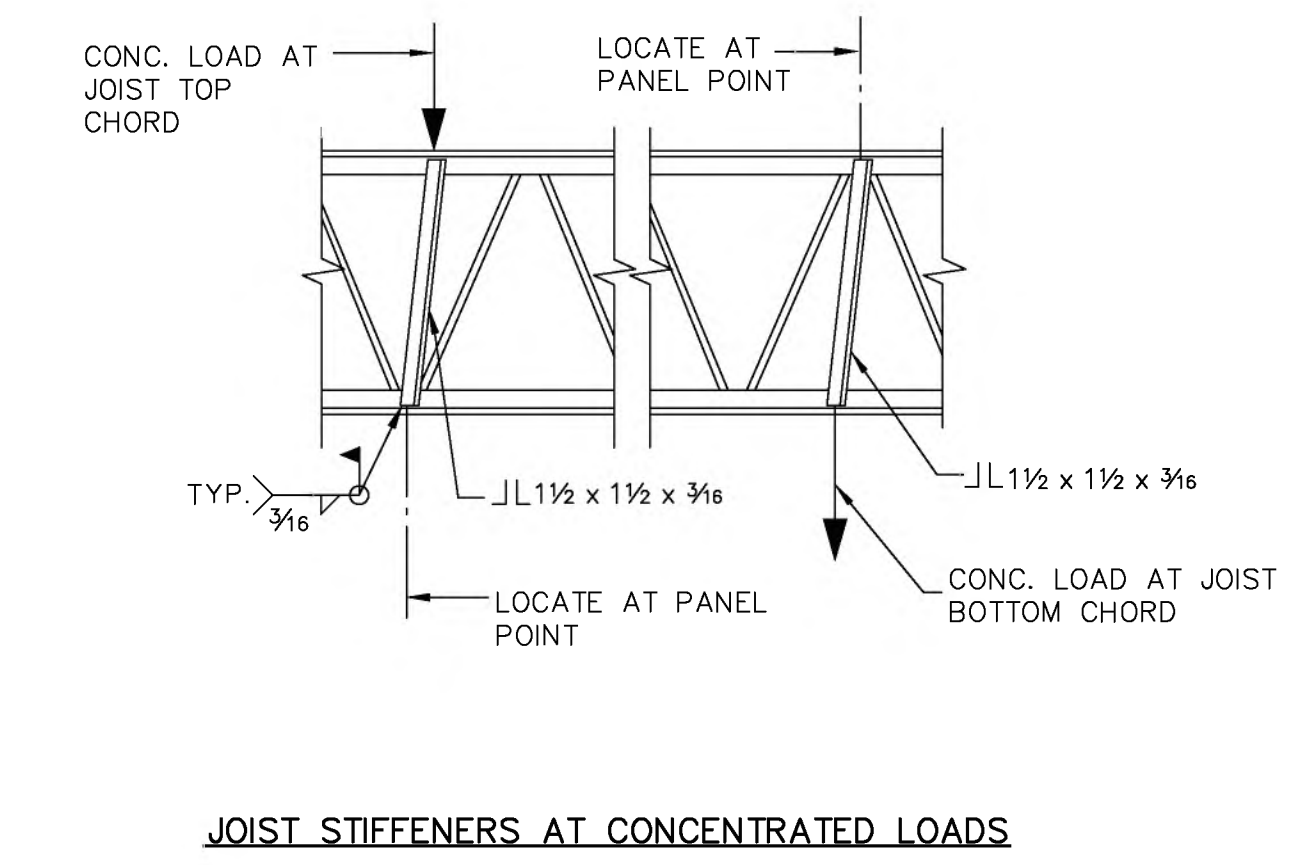
06 TYPICAL DETAIL
SCALE: NO SCALE



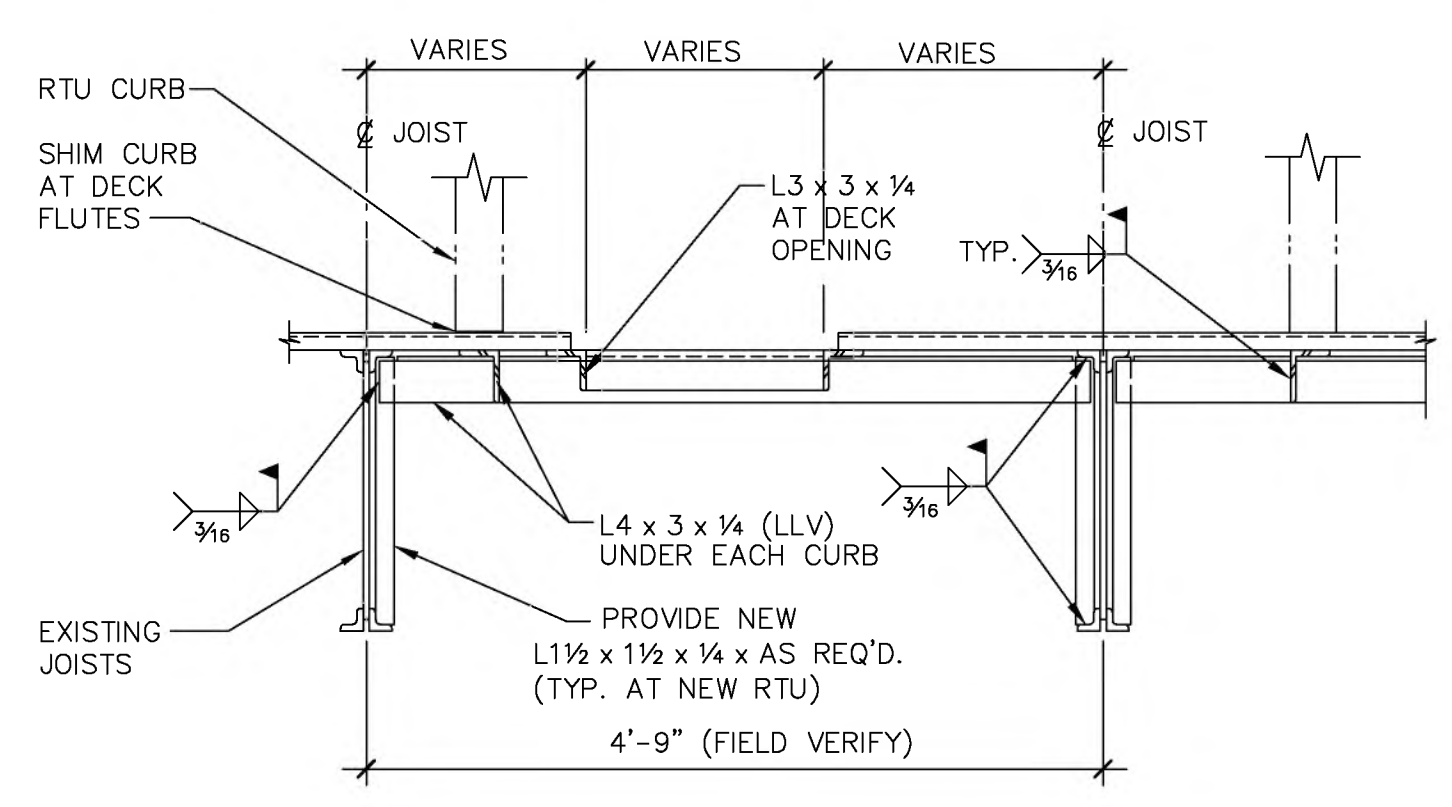
07 TYPICAL DETAIL
SCALE: N/A



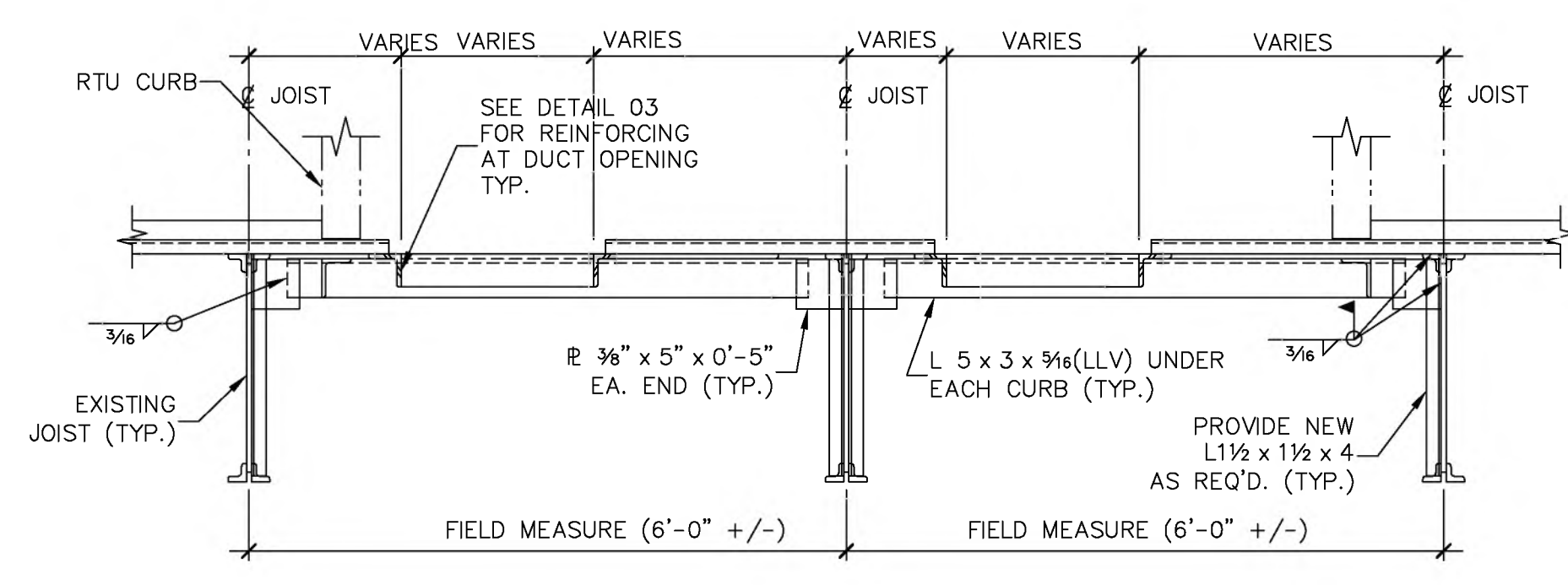
08 TYPICAL DETAIL
SCALE: NO SCALE



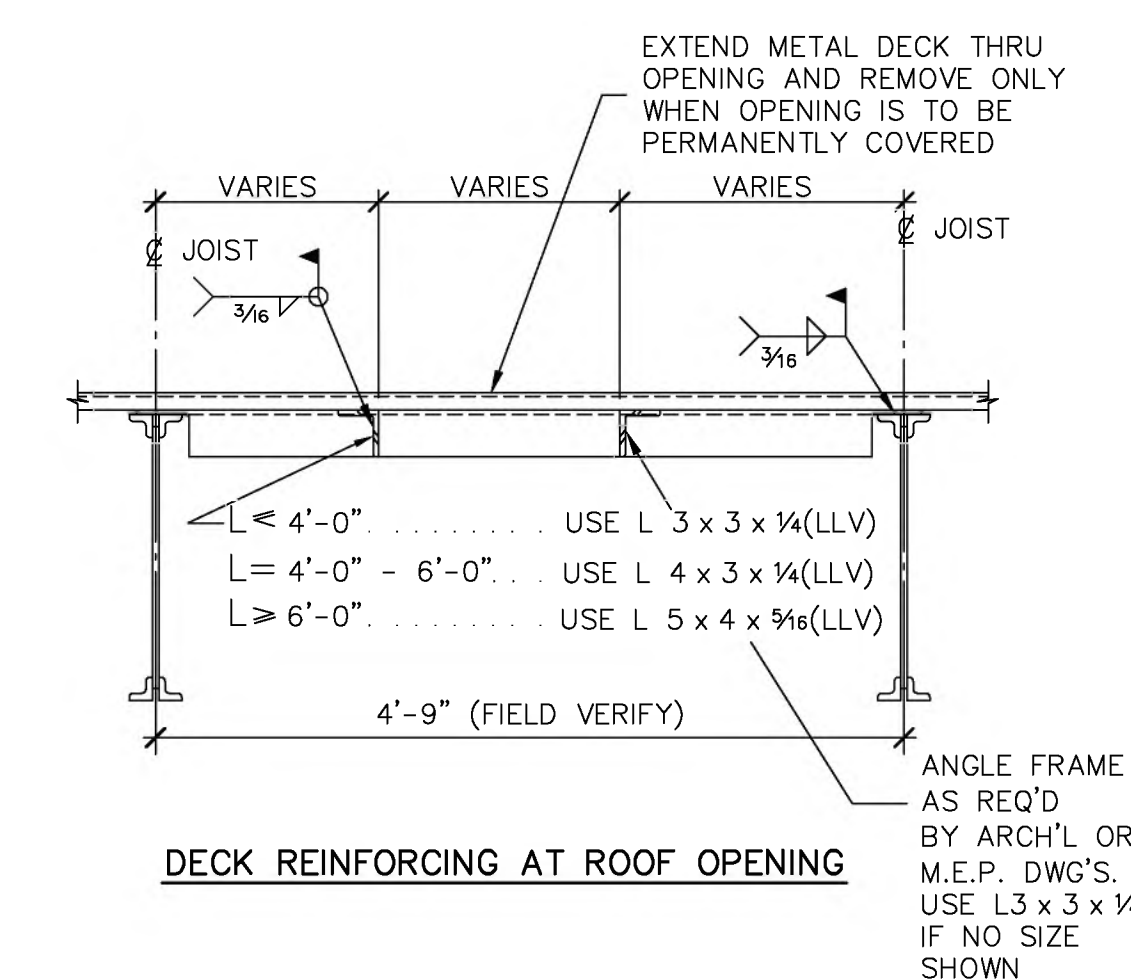
09 TYPICAL DETAIL
SCALE: NO SCALE



10 TYPICAL DETAIL
SCALE: NO SCALE



11 TYPICAL DETAIL
SCALE: NO SCALE



12 TYPICAL DETAIL
SCALE: NO SCALE

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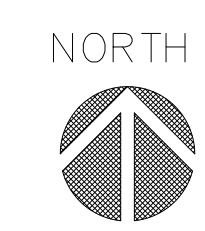
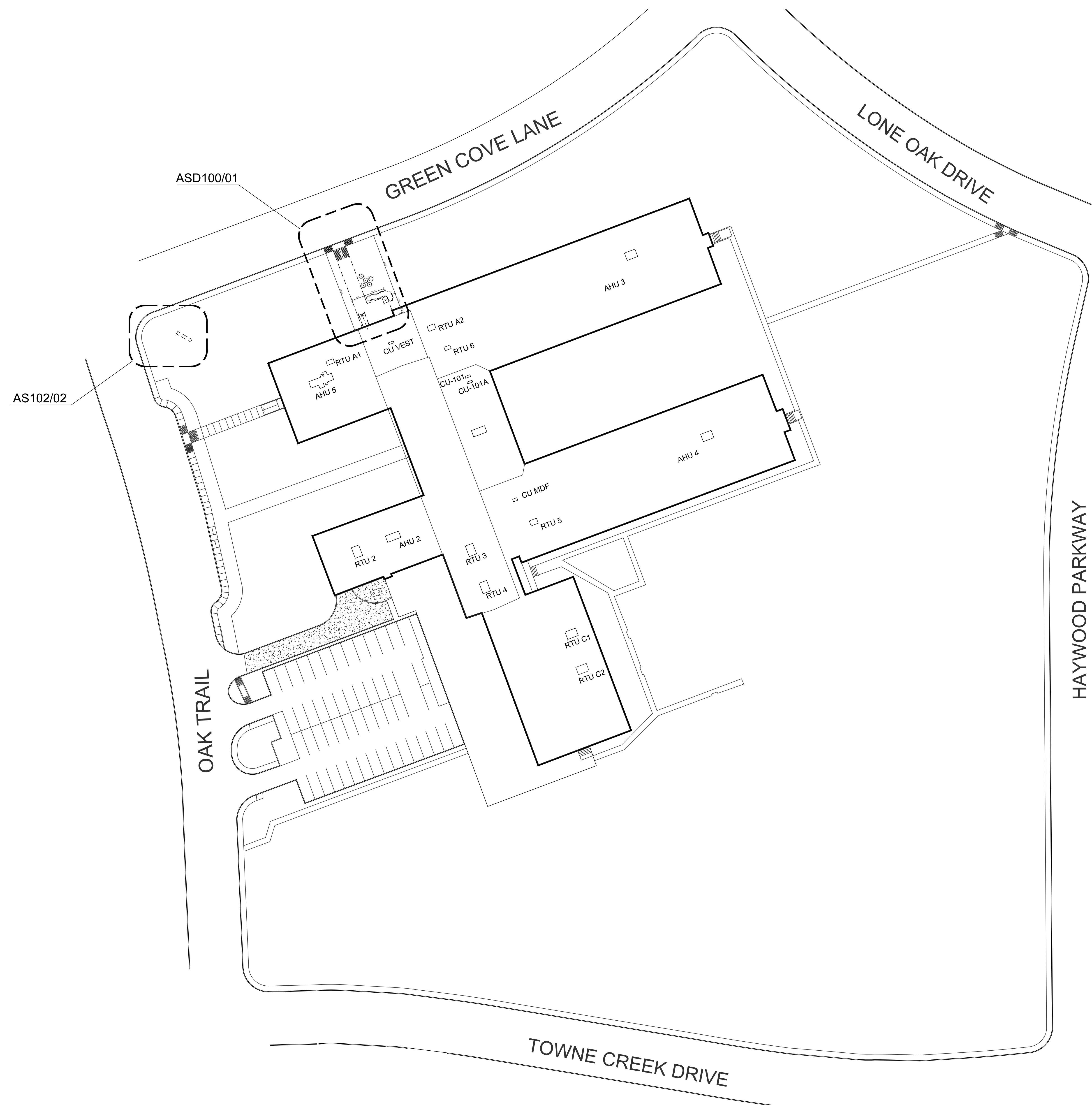
KEY PLAN

JMA Project Number:

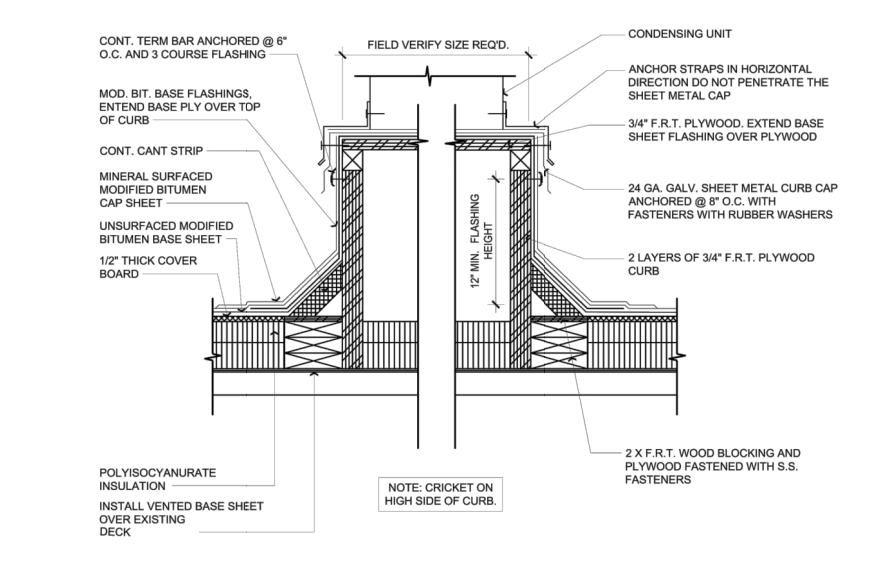
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Scale:

Sheet Title



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



02 ROOF CURB DETAIL
N.T.S.

GENERAL DEMOLITION NOTES

- ALTERATIONS, CUTTING AND REMOVAL :**
- LAY OUT ALL WORK AS SHOWN ON DRAWINGS. NOTIFY ARCHITECT OF ALL DISCREPANCIES IMMEDIATELY AND DO NOT PROCEED WITH CONSTRUCTION UNTIL DISCREPANCIES ARE RESOLVED.
 - PROTECT EXISTING CONSTRUCTION, HVAC, ELECTRICAL, PLUMBING, AND FINISHING THAT ARE NOT AFFECTED BY DEMOLITION. REPAIR OR REPLACE WORK INVENTENTLY DAMAGED BY DEMOLITION OPERATIONS AT NO ADDITIONAL COST TO OWNER.
 - BEFORE DEMOLITION OR REMOVAL OF ANY WALL OR STRUCTURAL COMPONENT, VERIFY IF ANY WALL OR STRUCTURAL COMPONENT IS A LOAD-BEARING COMPONENT, AND IF SO, NOTIFY ARCHITECT IMMEDIATELY.
 - REMOVE EXISTING WALLS AND CUT AWAY PORTIONS OF EXISTING WALLS AS INDICATED. CLEAN, PREP, AND COORDINATE AS NECESSARY PRIOR TO RECEIVING NEW WORK.
 - EXECUTE WORK IN ORDERLY AND CAREFUL MANNER WITH DUE REGARD FOR EXISTING CONSTRUCTION. TAKE CARE NOT TO WEAKEN OR OTHERWISE DAMAGE INTEGRITY OF WORK TO BE LEFT IN PLACE.
 - PERFORM WORK SO AS NOT TO CUT OR REMOVE MORE THAN IS NECESSARY AND SO AS NOT TO DAMAGE ADJACENT WORK.
 - CONDUCT WORK IN MANNER SO AS TO MINIMIZE NOISE ACCUMULATION AND SPREAD OF DIRT AND DUST.
 - CAREFULLY MONITOR ASSIGNMENTS TO, AND RESPONSIBILITY OF TRADES, SO AS TO MINIMIZE DAMAGE TO EXISTING SURFACES AND REPAIR THEREOF.
 - ASSIGN WORK TO TRADES SKILLED IN PROCEDURES INVOLVED.
 - COORDINATE ACTIVITIES OF ALL TRADES TO AVOID OVERCUTTING AND OVERREMOVAL.
 - CONTRACTOR SHALL REMOVE ALL DANGEROUS MATERIAL NOT REQUESTED TO BE RETAINED BY OWNER PER CONSTRUCTION WASTE MANAGEMENT PLAN.
 - LIGHT FIXTURES, DOORS, FRAMES AND FINISH HARDWARE TO BE SALVAGED SHALL BE STORED PER OWNER'S DIRECTION.
 - CLEAN AND PREPARE ALL AREAS AFTER ALTERATION, CUTTING AND REMOVAL COMPLETE PRIOR TO THE INSTALLATION OF NEW FINISHES.
 - CONTRACTOR SHALL COORDINATE WITH GISD TO CONFIRM AREAS OF HAZARDOUS MATERIALS BASED ON ASBESTOS SURVEY REPORT.

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CONSULTANT:

OWNER'S REPRESENTATIVE:
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 Dallas, Texas 75231

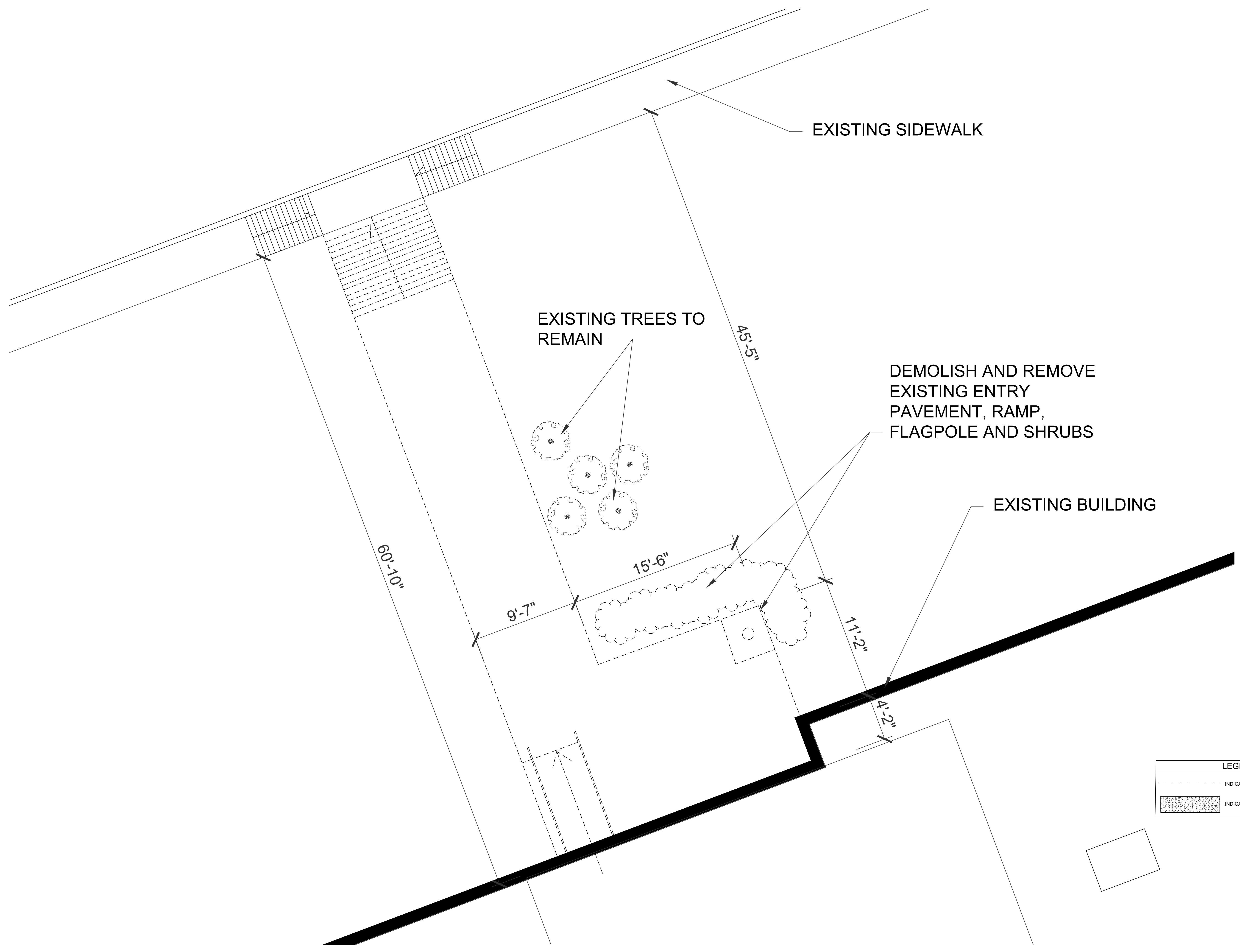
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 2020 Bond Program
 Mark Twain School for the Talented and Gifted
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REVISIONS:

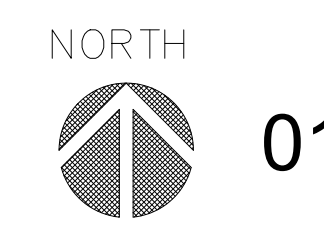
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KEY PLAN

JMA Project Number:
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 Sheet Title
 EXISTING SITE / ROOF PLAN
 Sheet Number
AS100




| LEGEND | |
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| | INDICATES ITEM TO BE REMOVED |
| | INDICATES EXISTING CONCRETE |



01 ENLARGED ENTRY PAVEMENT DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

NOTE:
EXISTING TREES AND SHRUBS TO REMAIN AND BE PROTECTED UNLESS NOTED TO BE REMOVED

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KEY PLAN

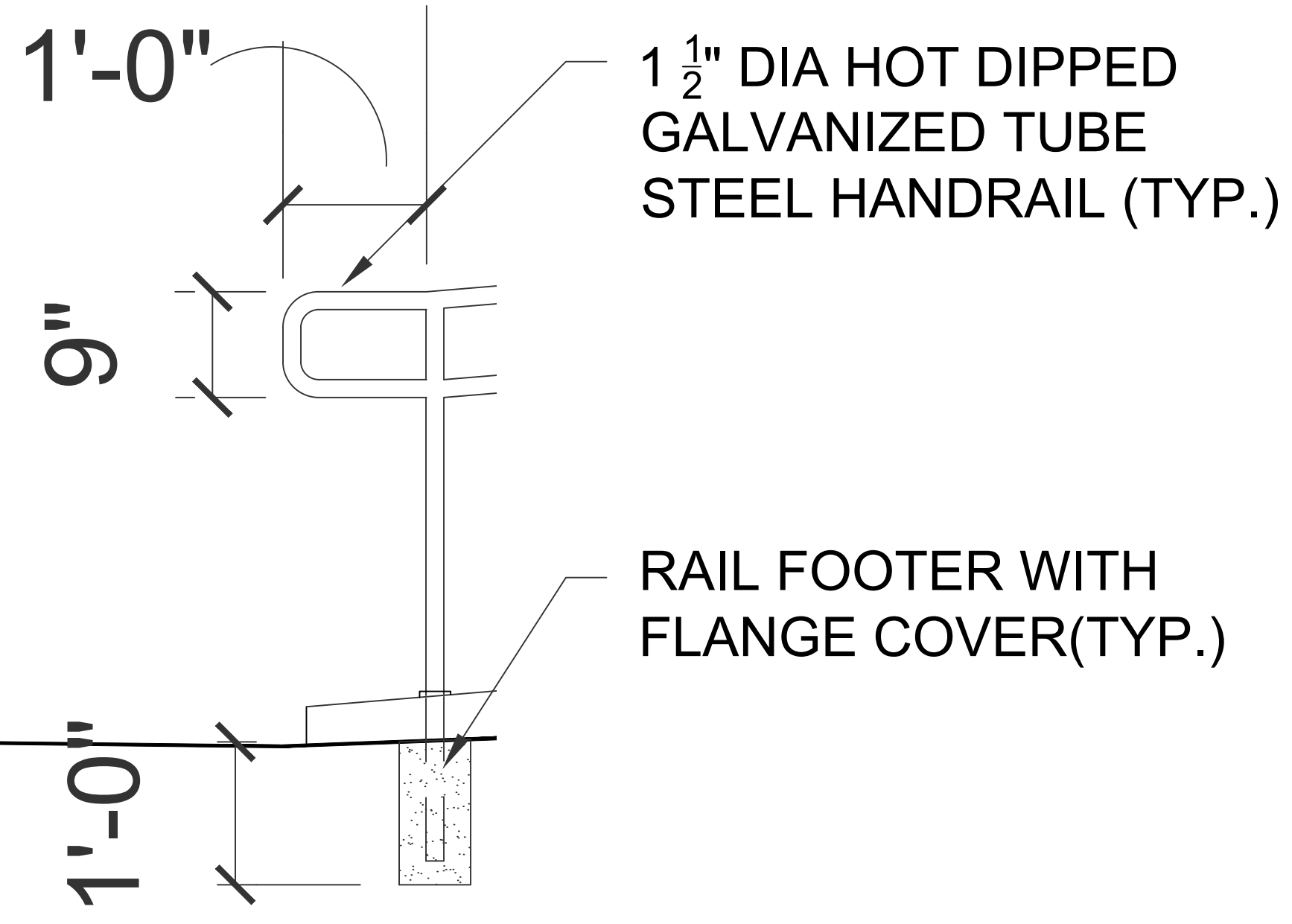
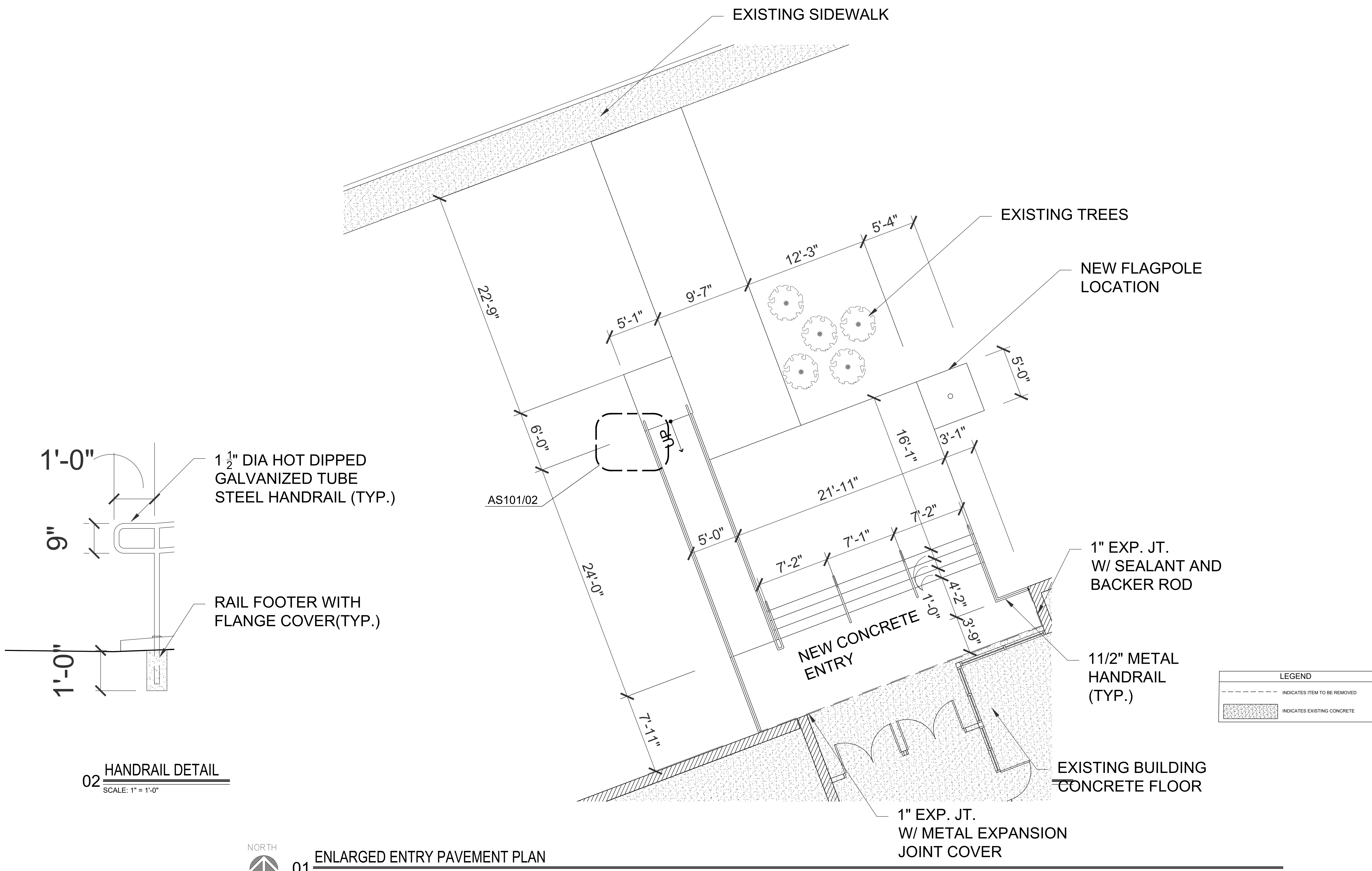
JMA Project Number:
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 Sheet Title
 ENLARGED ENTRY PAVEMENT DEMOLITION PLAN
 Sheet Number
 ASD100

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KEY PLAN

JMA Project Number:
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 Sheet Title
 ENLARGED ENTRY PAVEMENT PLAN
 Sheet Number
 AS101



01 ENLARGED ENTRY PAVEMENT PLAN
 SCALE: 1/4" = 1'-0"

NOTE:
 EXISTING TREES AND SHRUBS TO REMAIN AND BE PROTECTED UNLESS NOTED TO BE REMOVED

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 2020 Bond Program
 Mark Twain School for the Talented and Gifted
 724 Green Cove Lane - Dallas, Texas 75232
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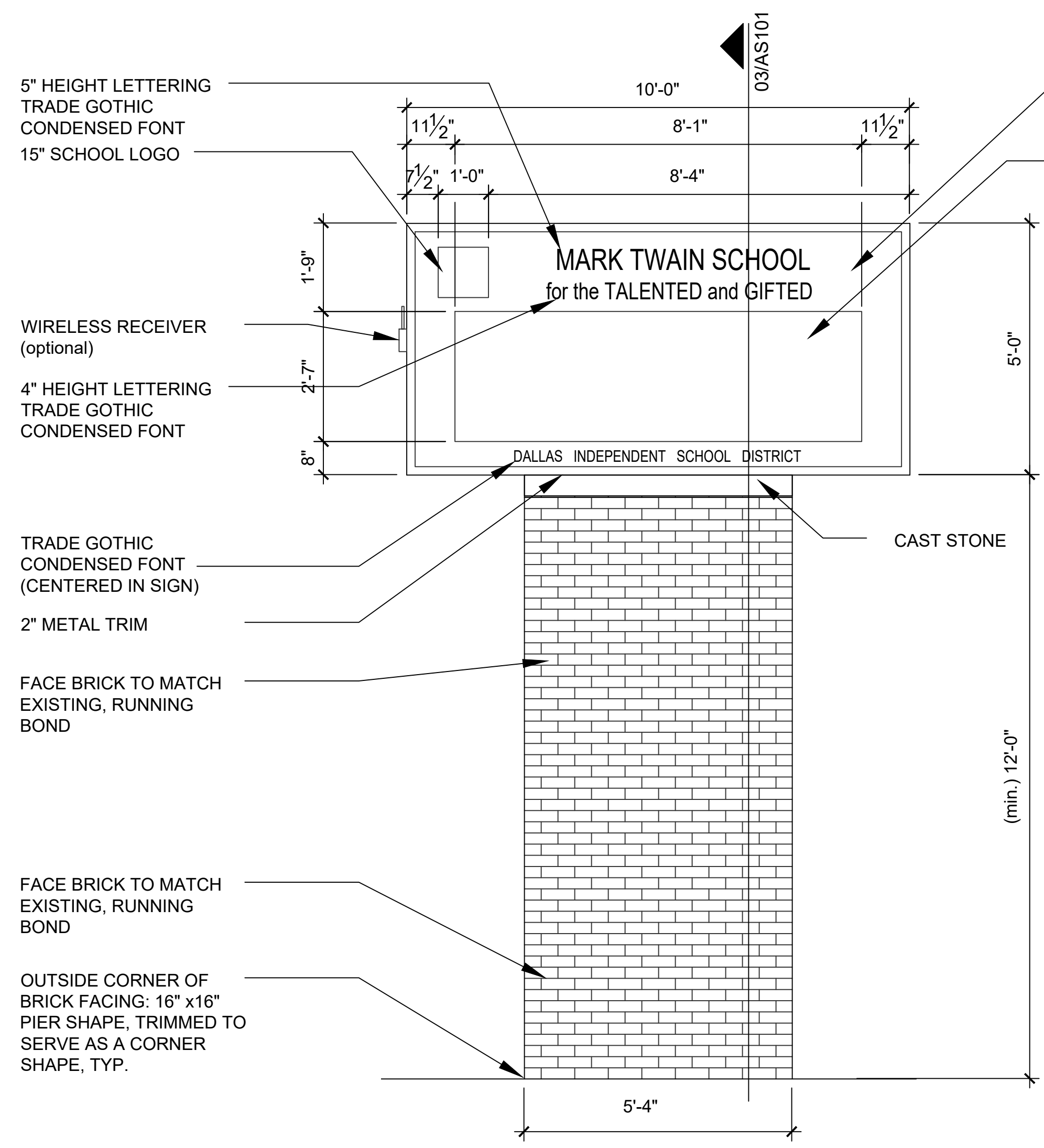
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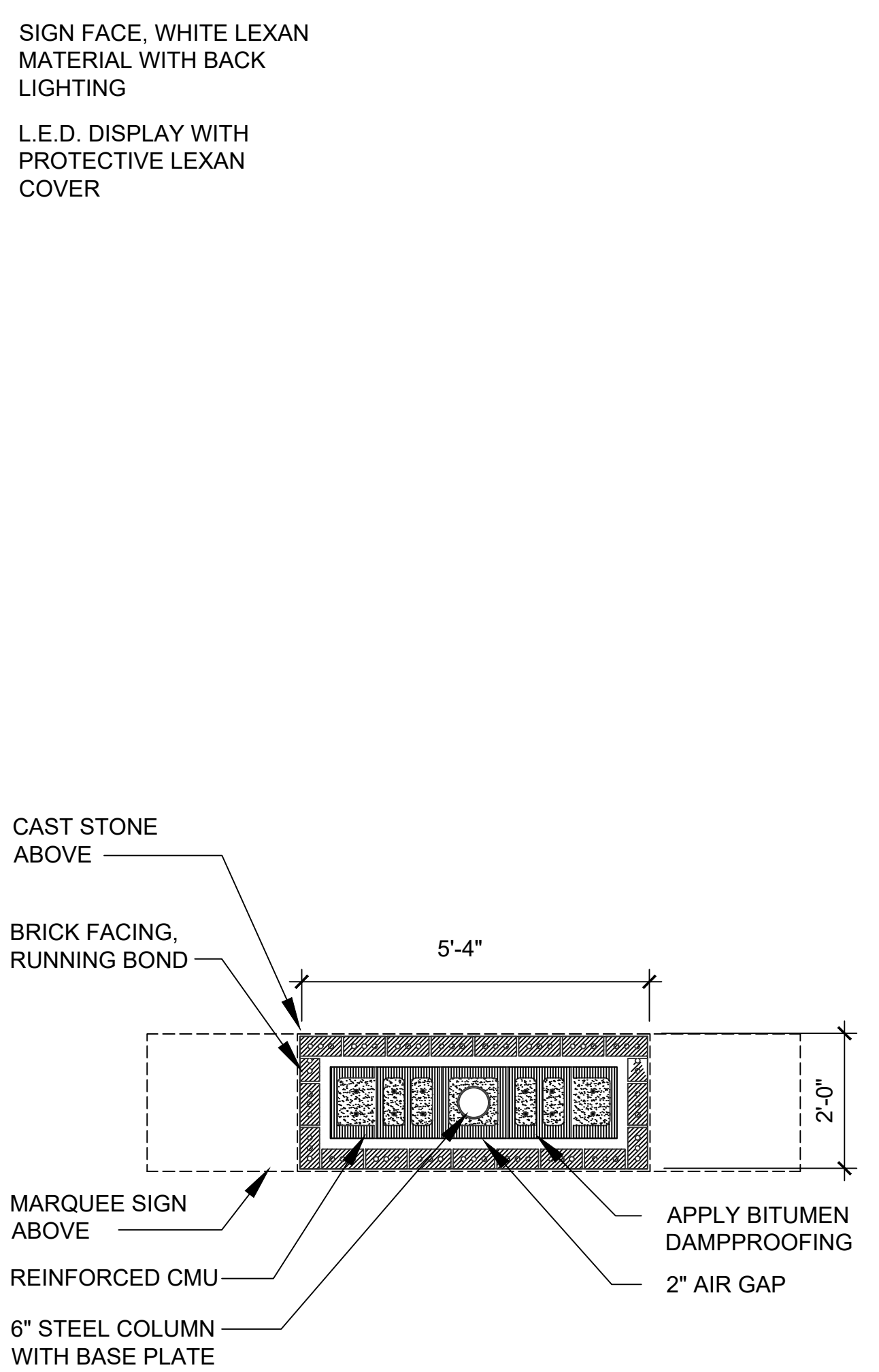
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JMA Project Number:
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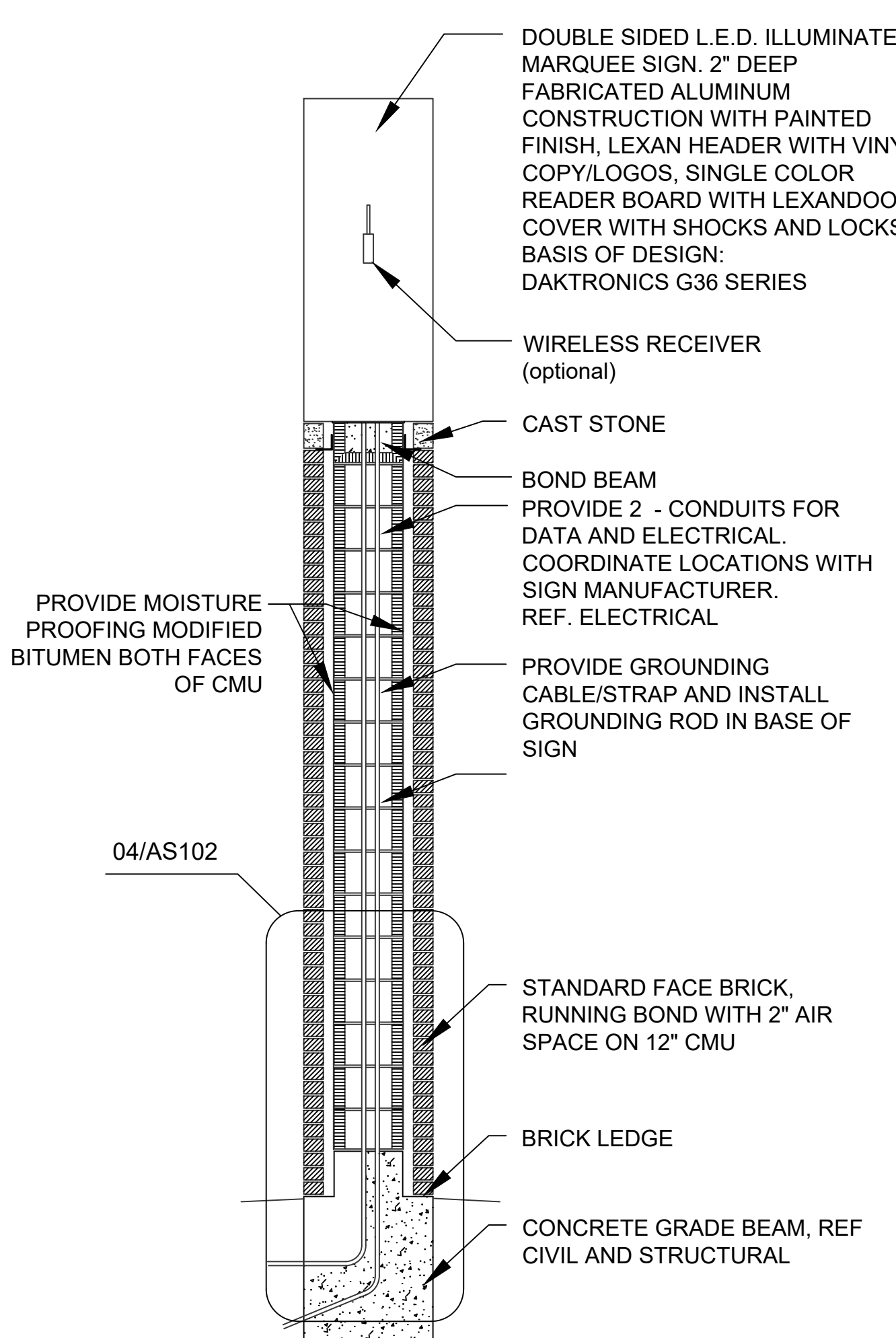
Sheet Title
 MARQUEE SIGN & DETAILS
 Sheet Number
AS102



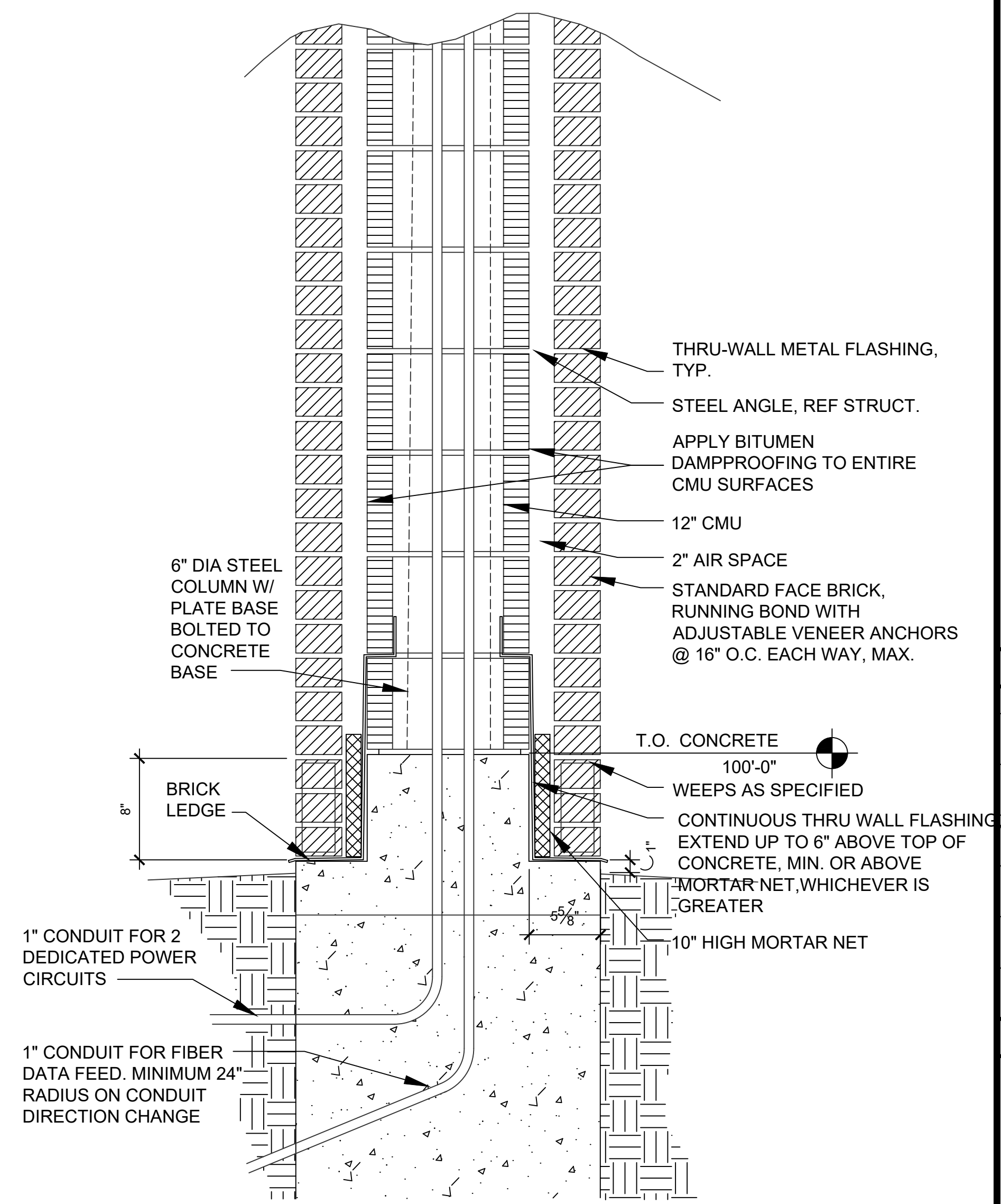
01 MARQUEE SIGN ELEVATION
 SCALE: 1/4" = 1'-0"



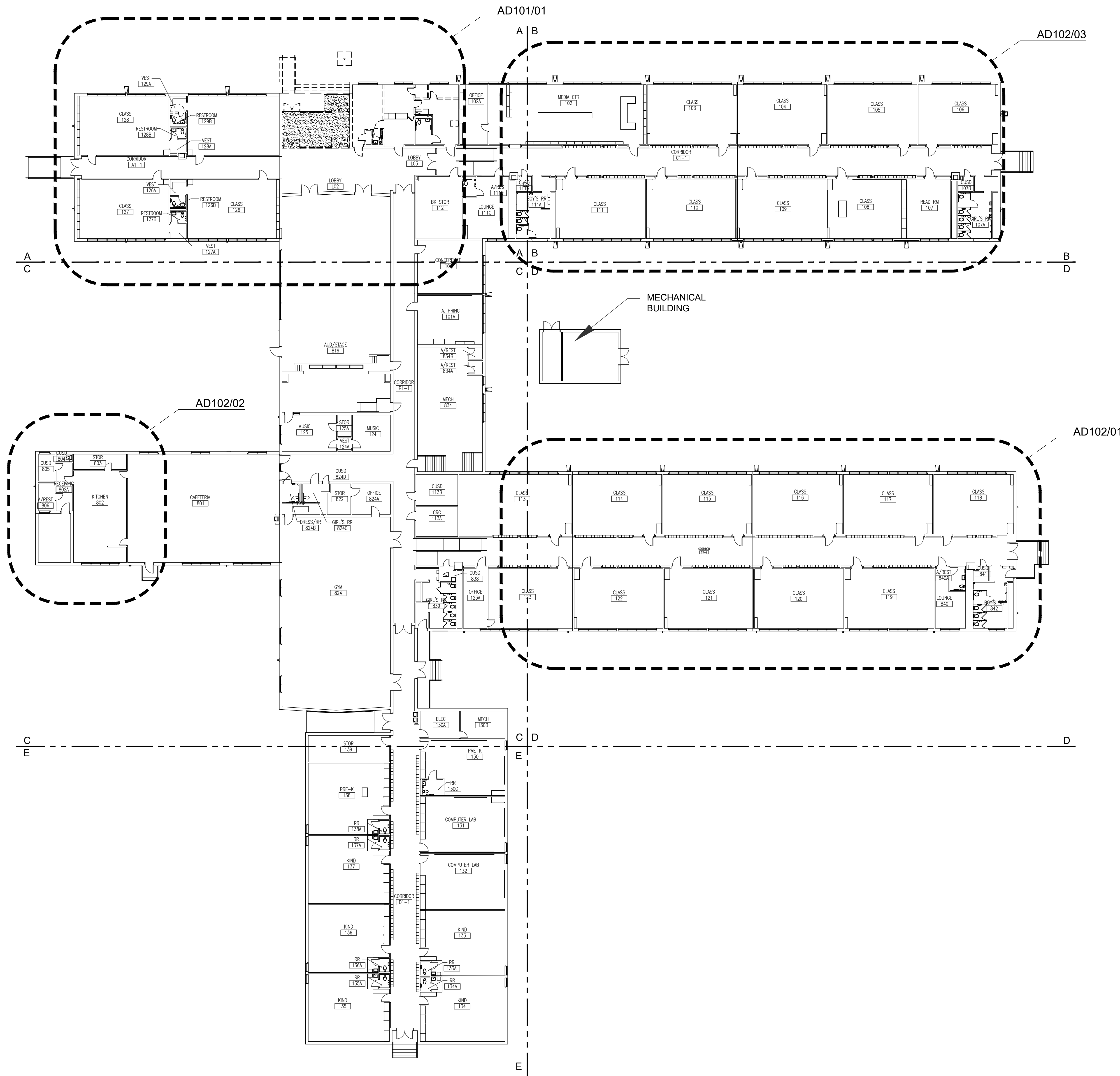
02 MARQUEE SIGN ENLARGED PLAN
 SCALE: 1/4" = 1'-0"



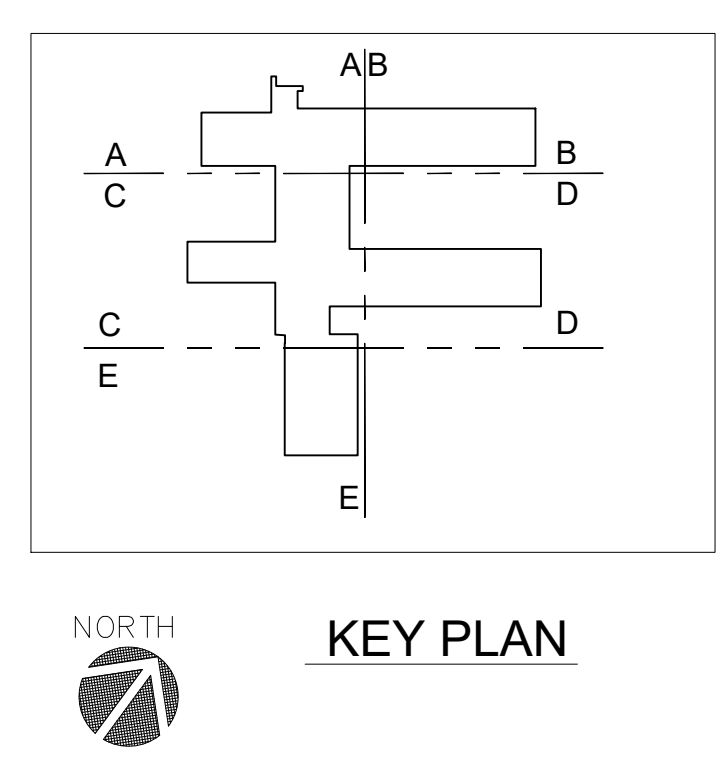
03 MARQUEE SIGN SECTION
 SCALE: 1/2" = 1'-0"




04 MARQUEE SIGN DETAIL
 SCALE: 1 1/2" = 1'-0"



01 1ST FLOOR COMPOSITE DEMOLITION PLAN
SCALE: 1/16" = 1'-0"



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KEY PLAN

JMA Project Number:
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Sheet Title
 1ST FLOOR COMPOSITE DEMOLITION PLAN
 Sheet Number
AD100

| LEGEND | |
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| --- | INDICATES ITEM TO BE REMOVED |
| | INDICATES EXISTING ENTRY PAVEMENT TO BE REMOVED |
| | INDICATES EXTENT OF NEW INTERIOR FLOORING |
| | INDICATES QUARRY TILE FLOORING |
| | INDICATES FLOOR TILE FLOORING REMOVAL AND REPLACEMENT |
| ① | INDICATES LOCATION OF WALL AND FLOOR REPAIR REQUIRED AFTER ROOM MECHANICAL UNIT REMOVAL. RE: MECH |
| ② | INDICATES WINDOW A/C UNIT TO BE REMOVED. INSTALL NEW GLAZING TO MATCH EXISTING WHERE UNIT IS REMOVED |
| ③ | INDICATES AREA OF QUARRY TILE TO BE REMOVED. REPLACEMENT TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PLUMBING LINES AND FIXTURES. RE: MECH |

NOTE:
 REMOVE AND SALVAGE ALL PHOTOS AND WALL PLAQUES AT THE EXISTING ENTRY VESTIBULE.
 RETURN TO DISD FOR RELOCATION.

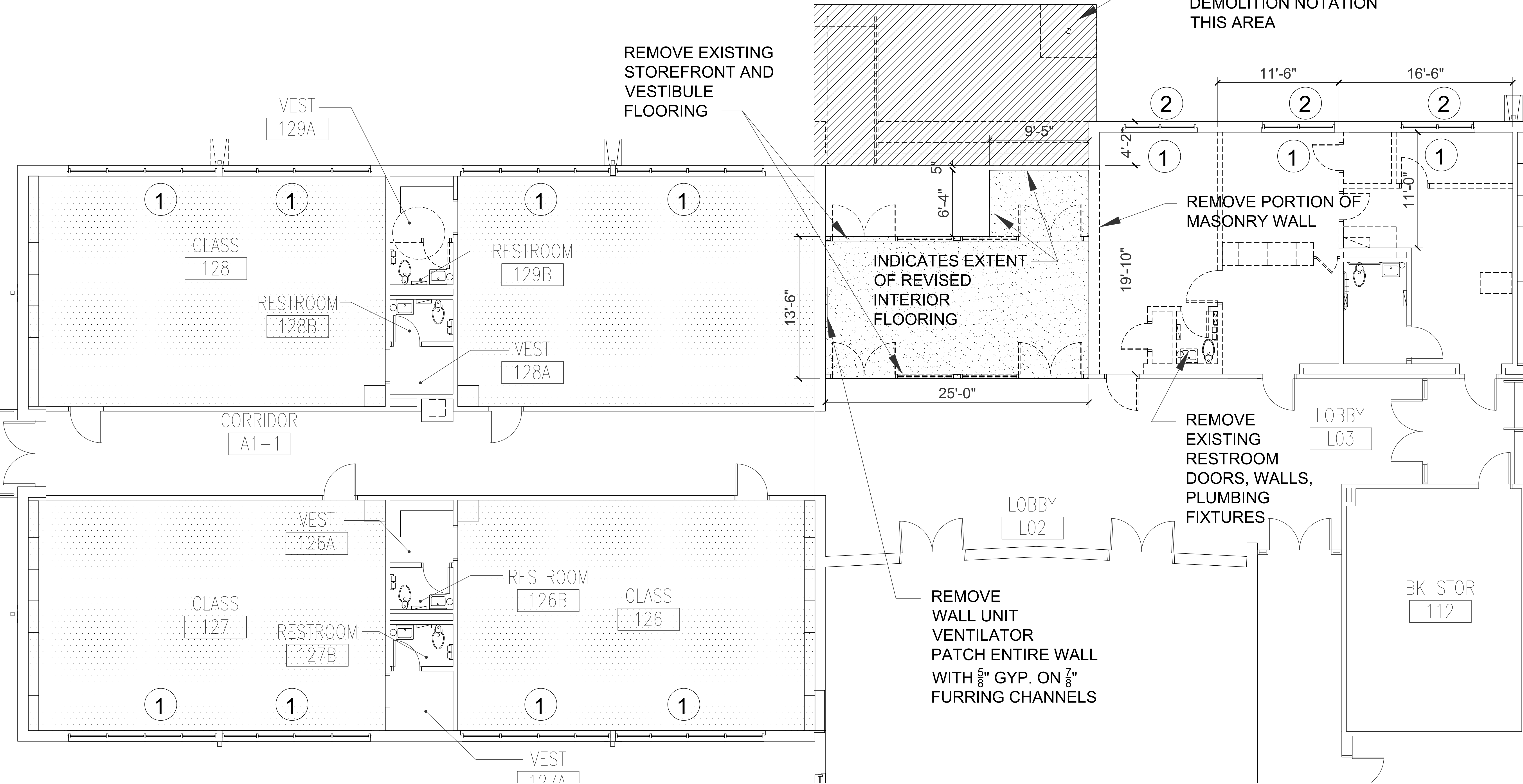
RE: SHEET ASD100 FOR ENTRY PAVEMENT DEMOLITION NOTATION THIS AREA

REMOVE EXISTING STOREFRONT AND VESTIBULE FLOORING

REMOVE PORTION OF MASONRY WALL

REMOVE EXISTING RESTROOM DOORS, WALLS, PLUMBING FIXTURES

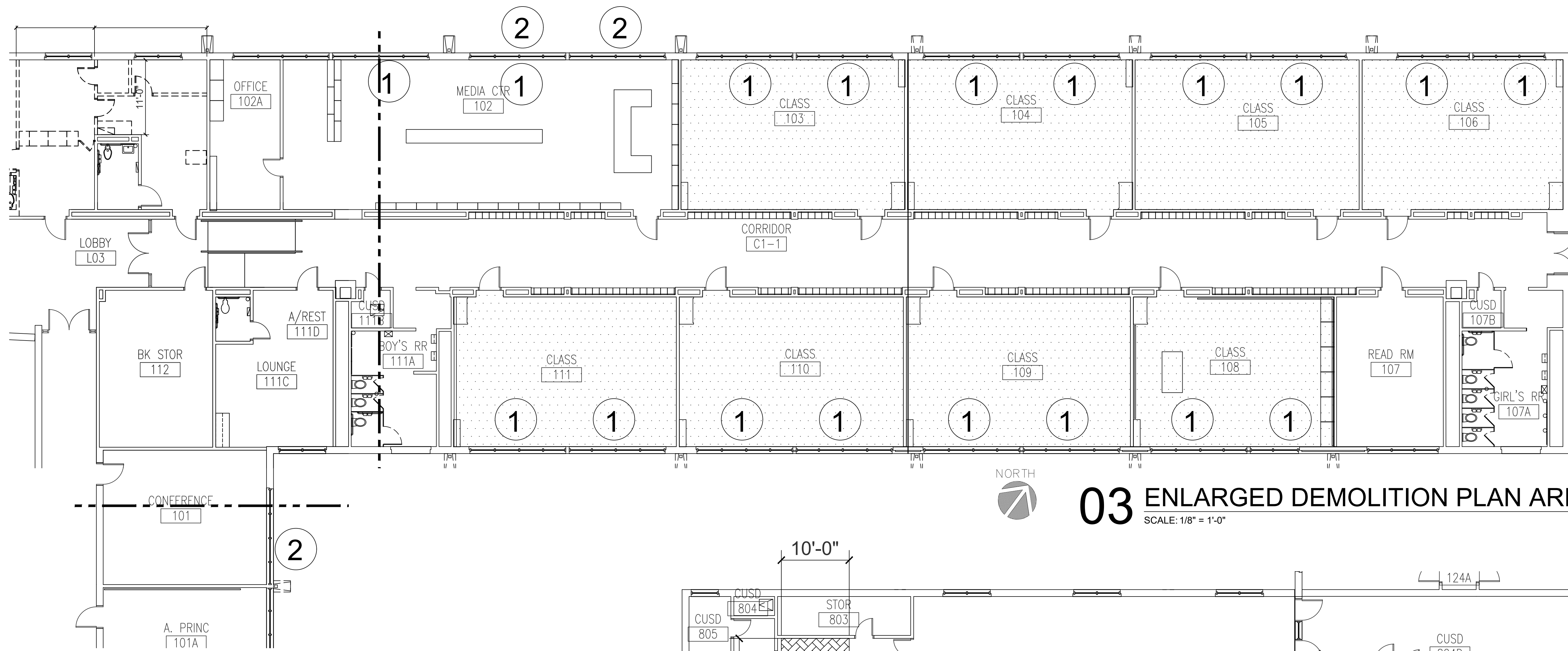
REMOVE WALL UNIT VENTILATOR PATCH ENTIRE WALL WITH 5/8" GYP. ON 7/8" FURRING CHANNELS



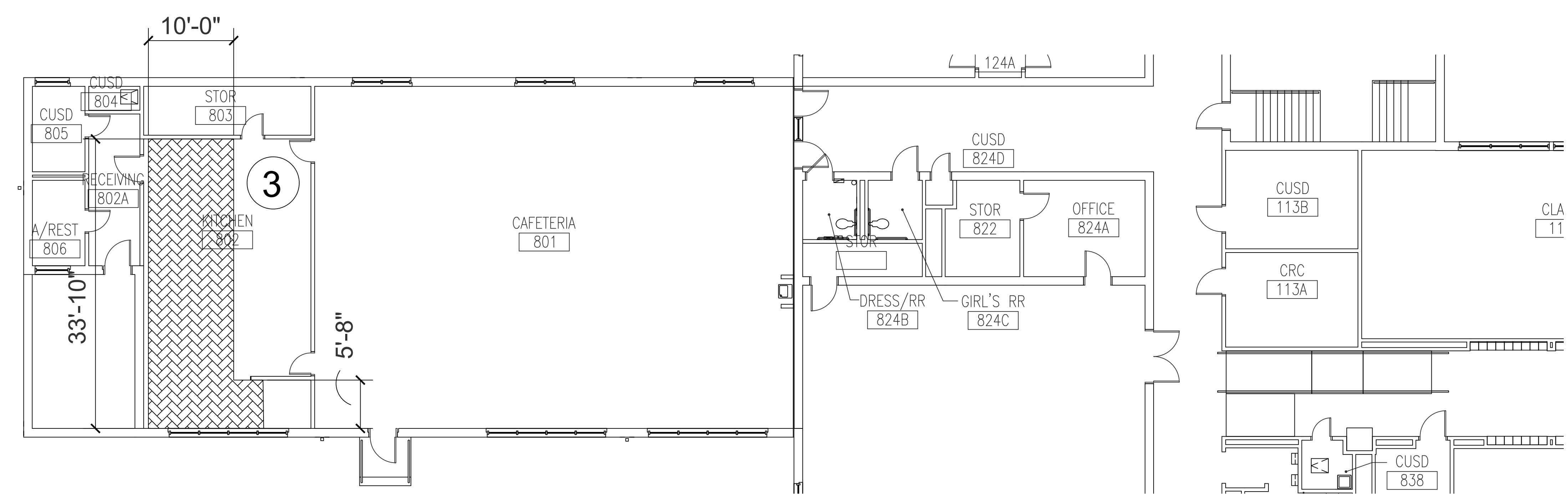
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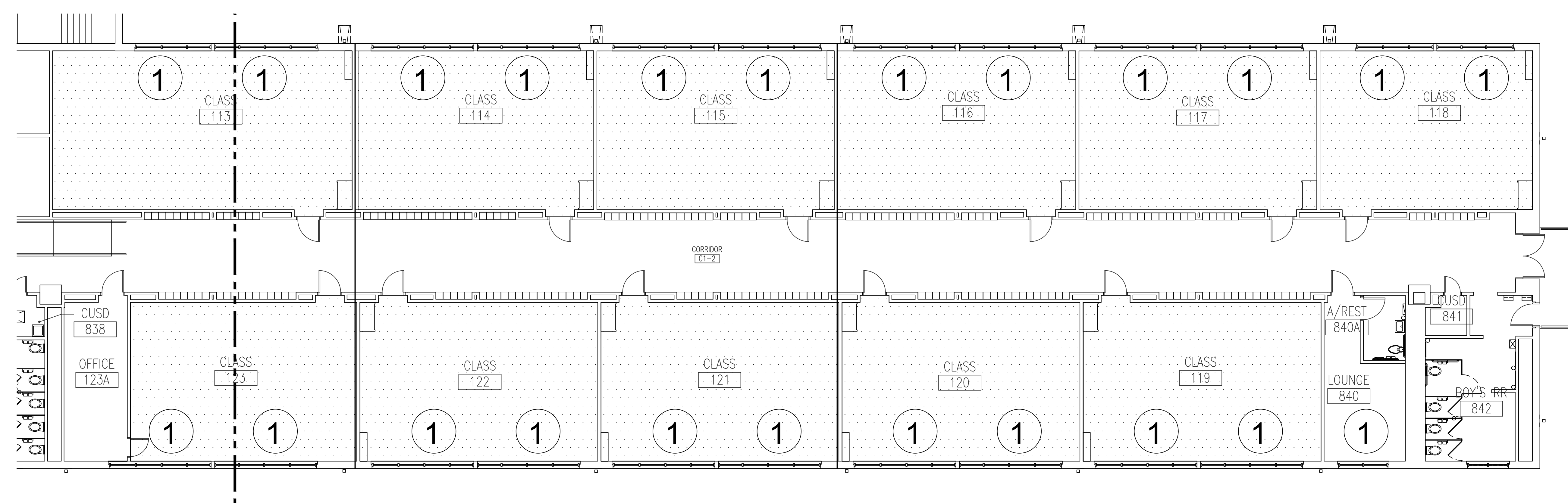




03 ENLARGED DEMOLITION PLAN AREA B
SCALE: 1/8" = 1'-0"



02 ENLARGED DEMOLITION PLAN AREA C
SCALE: 1/8" = 1'-0"



01 ENLARGED DEMOLITION PLAN AREA D
SCALE: 1/8" = 1'-0"

| LEGEND | |
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| --- | INDICATES ITEM TO BE REMOVED |
| | INDICATES EXISTING ENTRY PAVEMENT TO BE REMOVED |
| | INDICATES EXTENT OF NEW INTERIOR FLOORING |
| | INDICATES QUARRY TILE FLOORING |
| | INDICATES FLOOR TILE FLOORING REMOVAL AND REPLACEMENT |
| 1 | INDICATES LOCATION OF WALL AND FLOOR REPAIR REQUIRED AFTER ROOM MECHANICAL UNIT REMOVAL. RE: MECH |
| 2 | INDICATES WINDOW A/C UNIT TO BE REMOVED. INSTALL NEW GLAZING TO MATCH EXISTING WHERE UNIT IS REMOVED |
| 3 | INDICATES AREA OF QUARRY TILE TO BE REMOVED. REPLACEMENT TO ACCOMMODATE REMOVAL AND REPLACEMENT OF PLUMBING LINES AND FIXTURES. RE: MECH |

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KEY PLAN

JMA Project Number:
 Date:
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 Sheet Title
ENLARGED DEMOLITION PLAN AREAS B, C, AND D
 Sheet Number
AD102



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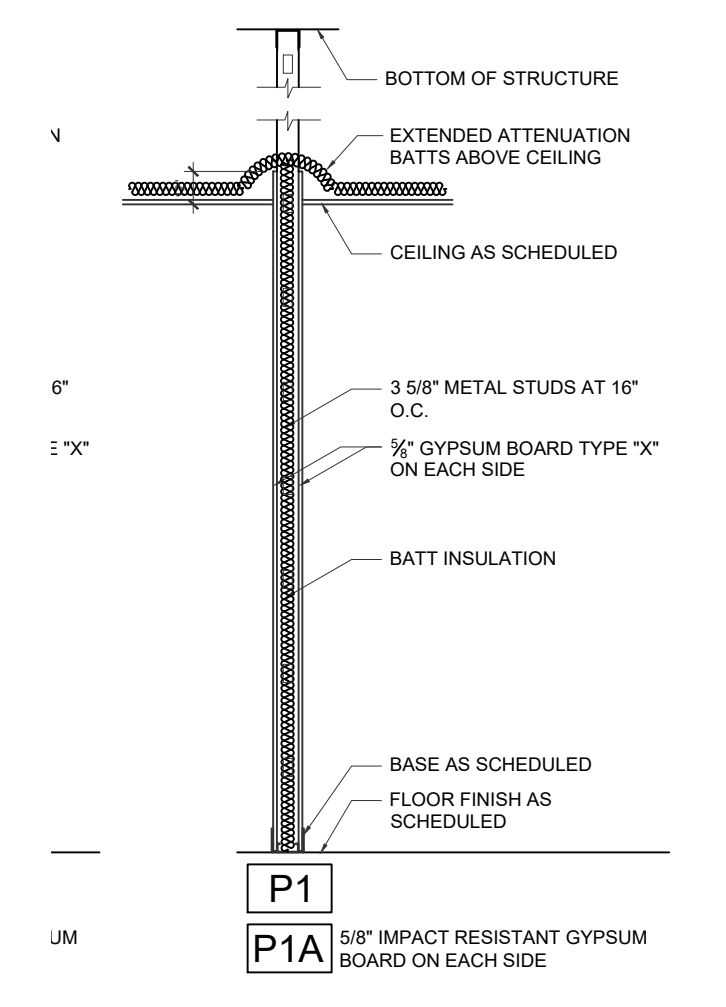
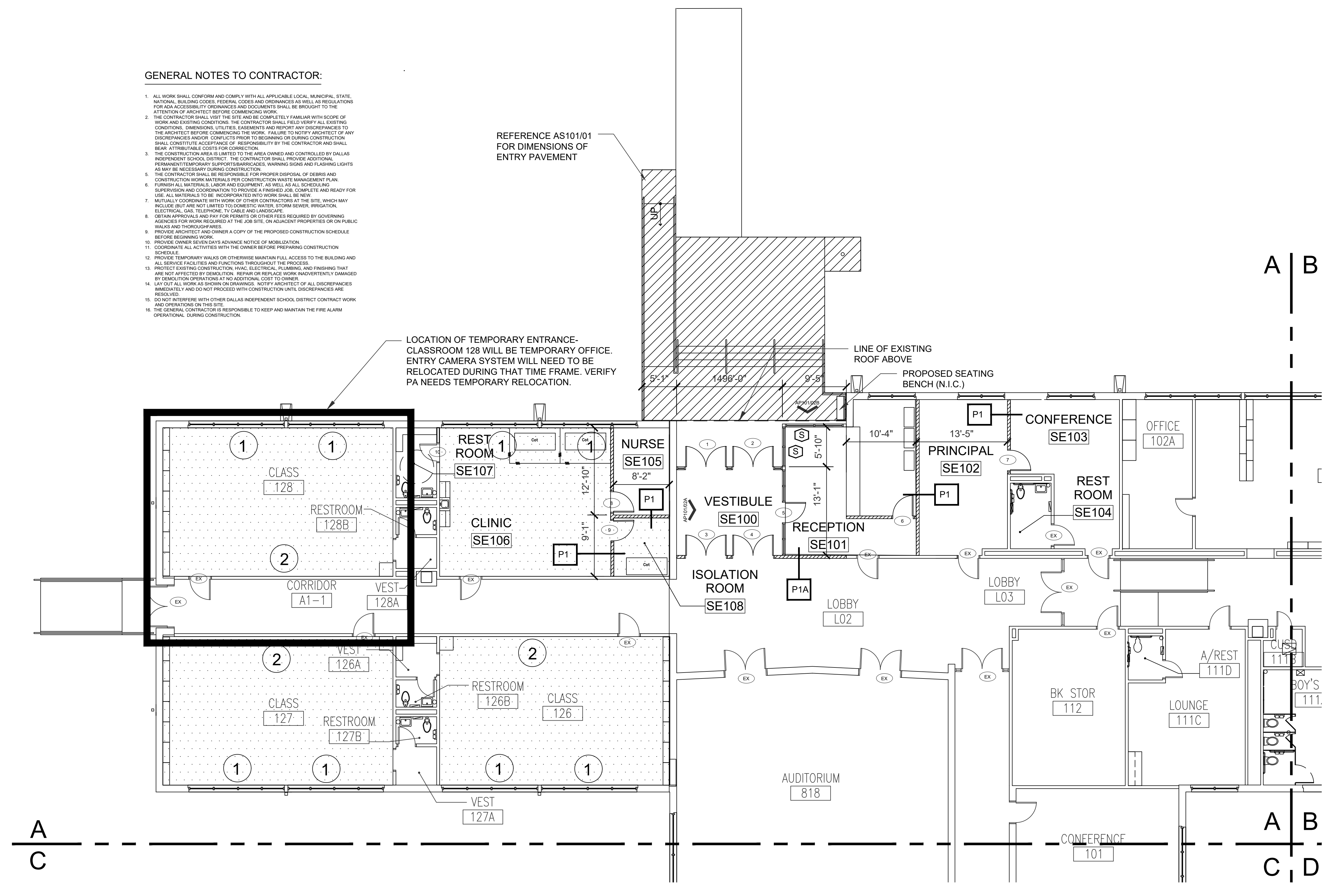
FLOOR PLAN AREA 'A'
 Sheet Number
AP101

GENERAL NOTES TO CONTRACTOR:

- ALL WORK SHALL CONFORM AND COMPLY WITH ALL APPLICABLE LOCAL, MUNICIPAL, STATE, NATIONAL, BUILDING CODES, FEDERAL, CODES AND ORDINANCES AS WELL AS REGULATIONS FOR ADA ACCESSIBILITY, ORDINANCES AND DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH SCOPE OF WORK AND EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, LEVELS, ELEVATIONS AND REPORT ANY DISCREPANCIES AND/OR CONFLICTS PRIOR TO BEGINNING OR DURING CONSTRUCTION. SHALL CONSTITUTE ACCEPTANCE OF RESPONSIBILITY BY THE CONTRACTOR AND SHALL BEAR ATTRIBUTABLE COSTS OF DEFECTIVE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE INDEPENDENT SCHOOL DISTRICT. THE CONTRACTOR SHALL PROVIDE ADDITIONAL INFORMATION TO THE DISTRICT AS REQUIRED BY THE DISTRICT.
- CONSTRUCTION WORK MATERIALS PER CONSTRUCTION WASTE MANAGEMENT PLAN.
- FURNISH ALL MATERIALS, LABOR AND EQUIPMENT AS WELL AS ALL SCHEDULED SUPERVISORS TO BE INCORPORATED INTO WORK SHALL BE NEW. ALL MATERIALS TO BE INCORPORATED INTO WORK SHALL BE NEW. ALL MATERIALS TO BE INCORPORATED INTO WORK SHALL BE NEW. ALL MATERIALS TO BE INCORPORATED INTO WORK SHALL BE NEW.
- COORDINATE WITH OTHER CONTRACTORS AT THE SITE, WHICH MAY INCLUDE BUT NOT LIMITED TO DOMESTIC WATER, STORM SEWER, IRRIGATION, ELECTRICAL, GAS, TELEPHONE, CABLE AND LANDSCAPE.
- VERIFY ALL UTILITIES FOR PERMITS OR OTHER FEES REQUIRED BY GOVERNING AGENCIES FOR WORK REQUIRED AT THE JOB SITE, ON ADJACENT PROPERTIES OR ON PUBLIC RIGHTS AND EASEMENTS.
- PROVIDE ARCHITECT AND OWNER A COPY OF THE PROPOSED CONSTRUCTION SCHEDULE BEFORE BEGINNING WORK.
- PROVIDE OWNER SEVEN DAYS ADVANCE NOTICE OF MOBILIZATION.
- COORDINATE ALL ACTIVITIES WITH THE OWNER BEFORE PREPARING CONSTRUCTION SCHEDULE.
- PROVIDE TEMPORARY WALKS OR OTHERWISE MAINTAIN FULL ACCESS TO THE BUILDING AND ALL SERVICE FACILITIES AND FUNCTIONS THROUGHOUT THE PROCESS.
- PROTECT EXISTING CONSTRUCTION, HVAC, ELECTRICAL, PLUMBING AND FINISHING THAT ARE NOT AFFECTED BY CONSTRUCTION. REPAIR OR REPLACE WORK INADEQUATELY DAMAGED BY CONSTRUCTION OPERATIONS AT AN ADDITIONAL COST TO THE OWNER.
- LAY OUT ALL WORK AS SHOWN ON DRAWINGS. NOTIFY ARCHITECT OF ALL DISCREPANCIES IMMEDIATELY. HAVE DO NOT PROCEED WITH CONSTRUCTION UNLESS DISCREPANCIES ARE RESOLVED.
- DO NOT INTERFERE WITH OTHER DALLAS INDEPENDENT SCHOOL DISTRICT CONTRACT WORK AND OPERATIONS ON THIS SITE.
- THE GENERAL CONTRACTOR IS RESPONSIBLE TO KEEP AND MAINTAIN THE FIRE ALARM OPERATIONAL DURING CONSTRUCTION.

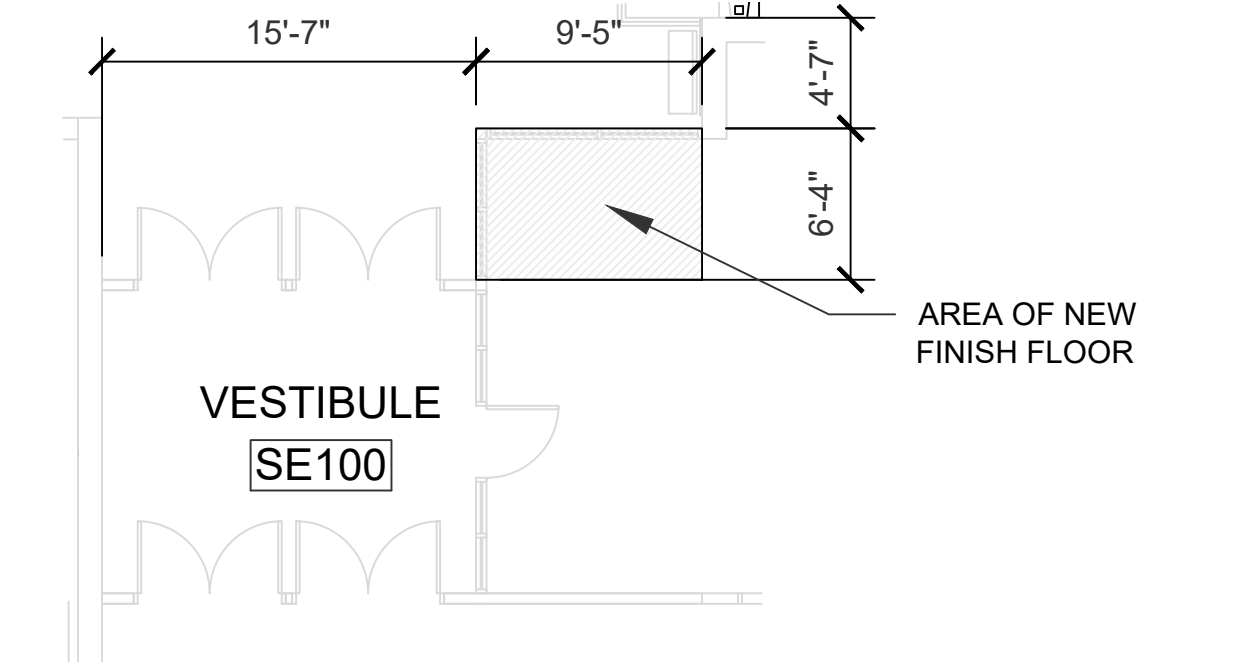
REFERENCE AS101/01 FOR DIMENSIONS OF ENTRY PAVEMENT

LOCATION OF TEMPORARY ENTRANCE-CLASSROOM 128 WILL BE TEMPORARY OFFICE. ENTRY CAMERA SYSTEM WILL NEED TO BE RELOCATED DURING THAT TIME FRAME. VERIFY PA NEEDS TEMPORARY RELOCATION.



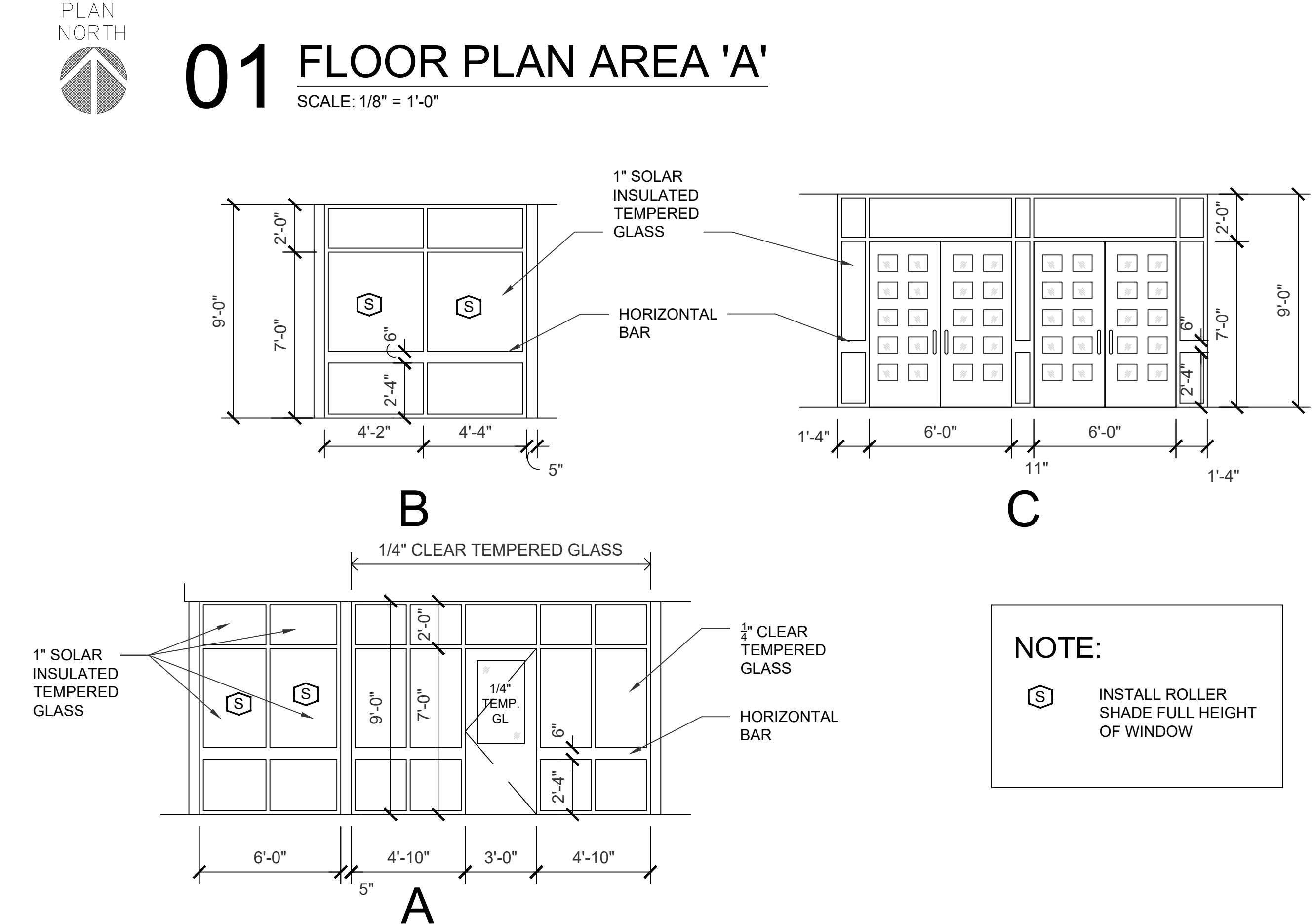
04 PARTITION TYPE
 SCALE: 3/8" = 1'-0"

01 FLOOR PLAN AREA 'A'
 SCALE: 1/8" = 1'-0"



03 ENTRY FINISH FLOOR
 SCALE: 1/4" = 1'-0"

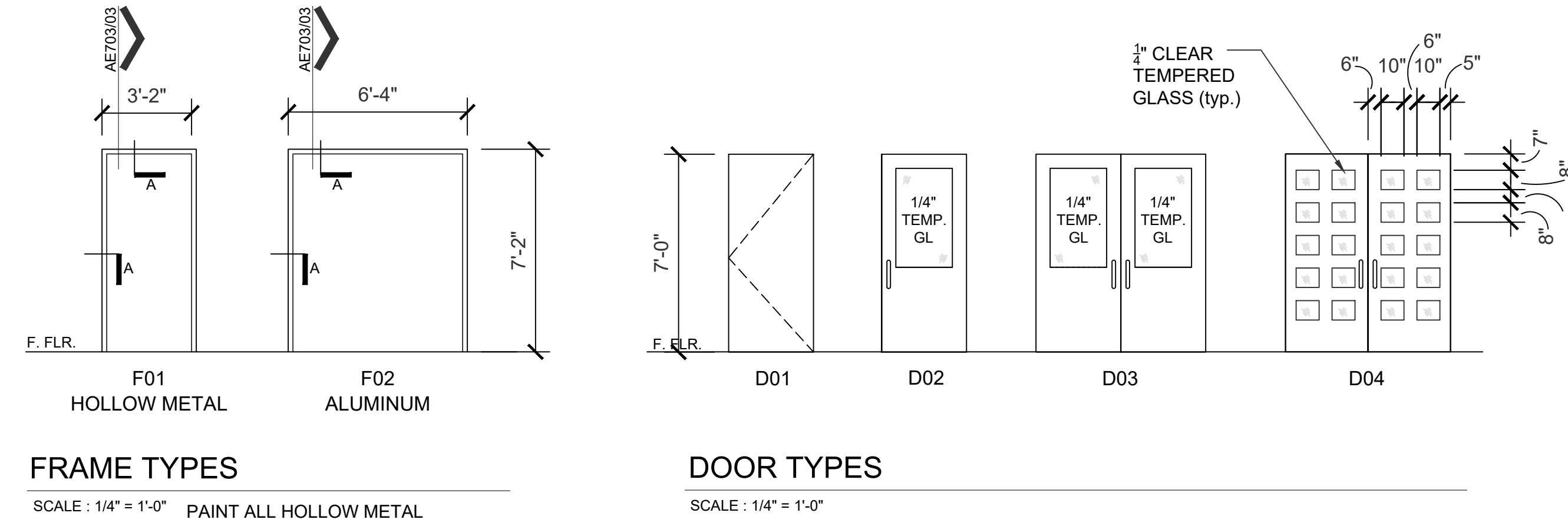
| DOOR SCHEDULE | | | | | | | | | | | | |
|------------------|-----------|-------------|-----|----------|------------|---------|------|-----------|---------------|----------------|--------------|--|
| DOOR INFORMATION | | | | | | | | | | | | |
| DOOR NUMBER | ROOM NAME | ROOM NUMBER | QTY | LEAF THK | DOOR WIDTH | DOOR HT | ELEV | DOOR TYPE | DOOR MATERIAL | FRAME MATERIAL | HARDWARE SET | REMARKS |
| 1 | VESTIBULE | SE100 | 2 | 1 3/4" | 3'-0" | 7'-0" | C | 04 | ALUM-GLASS | ALUM | ALUM | CR714M |
| 2 | VESTIBULE | SE100 | 2 | 1 3/4" | 3'-0" | 7'-0" | C | 04 | ALUM-GLASS | ALUM | ALUM | CR714M |
| 3 | VESTIBULE | SE100 | 2 | 1 3/4" | 3'-0" | 7'-0" | C | 03 | ALUM-GLASS | ALUM | ALUM | CR710CMV-NO DC |
| 4 | VESTIBULE | SE100 | 2 | 1 3/4" | 3'-0" | 7'-0" | C | 03 | ALUM-GLASS | ALUM | ALUM | CR710CMV-NO DC |
| 5 | RECEPTION | SE101 | 1 | 1 3/4" | 3'-0" | 7'-0" | - | 02 | WOOD-GLASS | ALUM | ALUM | CR201 |
| 6 | RECEPTION | SE101 | 1 | 1 3/4" | 3'-0" | 7'-0" | - | 02 | WOOD-GLASS | ALUM | ALUM | CR201 |
| 7 | PRINCIPAL | SE102 | 1 | 1 3/4" | 3'-0" | 7'-0" | - | 02 | WOOD-GLASS | HM | HM | 153 PAINT ALL YELLOW METAL FRAMES (TYP.) |
| 8 | NURSE | SE105 | 1 | 1 3/4" | 3'-0" | 7'-0" | - | 02 | WOOD-GLASS | HM | HM | 153 |
| 9 | ISOLATION | SE108 | 1 | 1 3/4" | 3'-0" | 7'-0" | - | 02 | WOOD-GLASS | HM | HM | 401 |
| 10 | REST ROOM | SE107 | 1 | 1 3/4" | 3'-0" | 7'-0" | - | 01 | WOOD | HM | HM | 341 |



02 STOREFRONT ELEVATIONS
 SCALE: 1/4" = 1'-0"

LEGEND

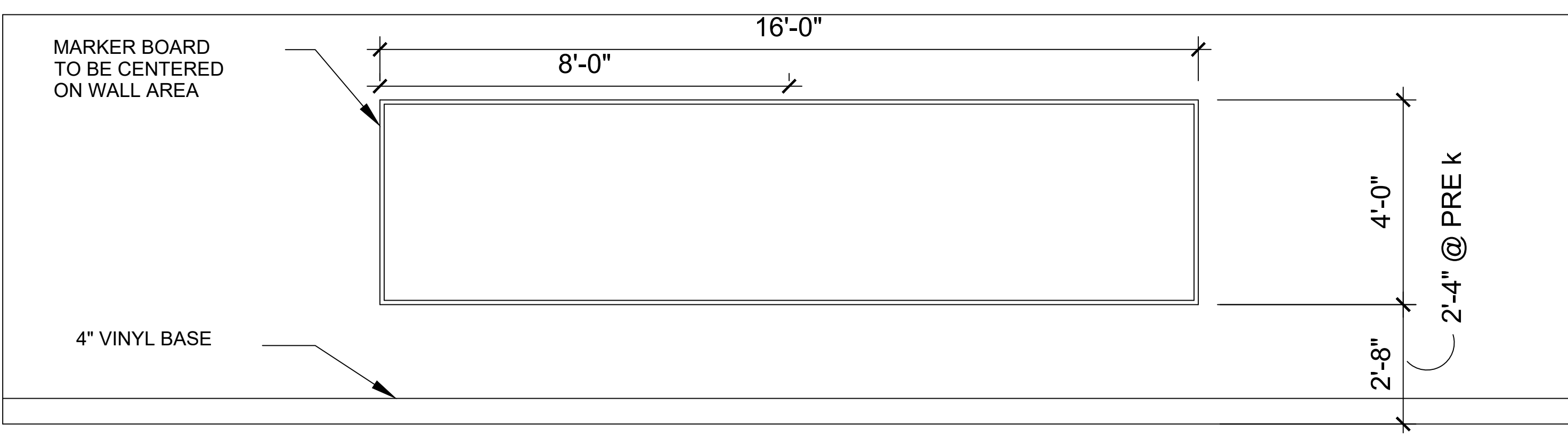
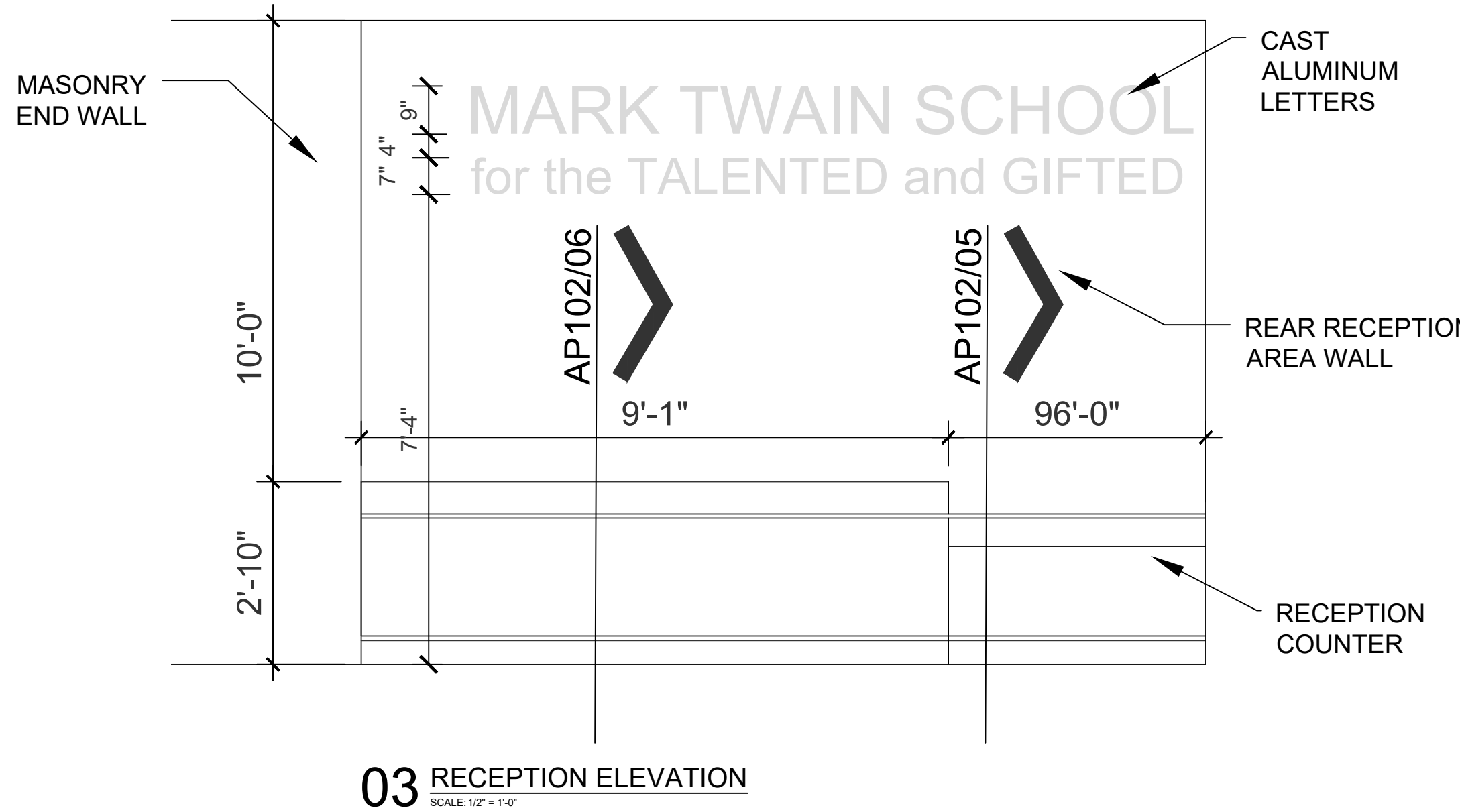
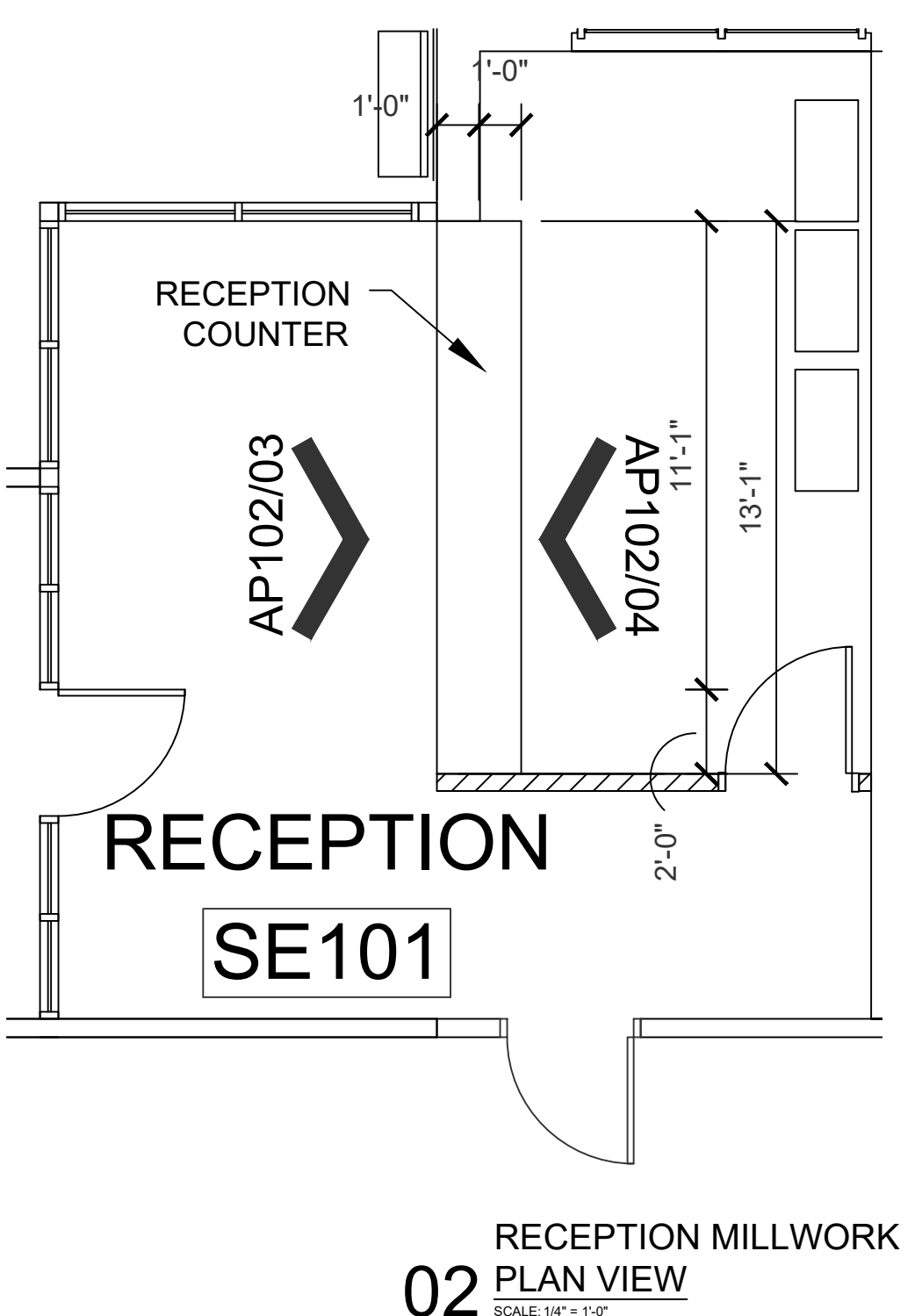
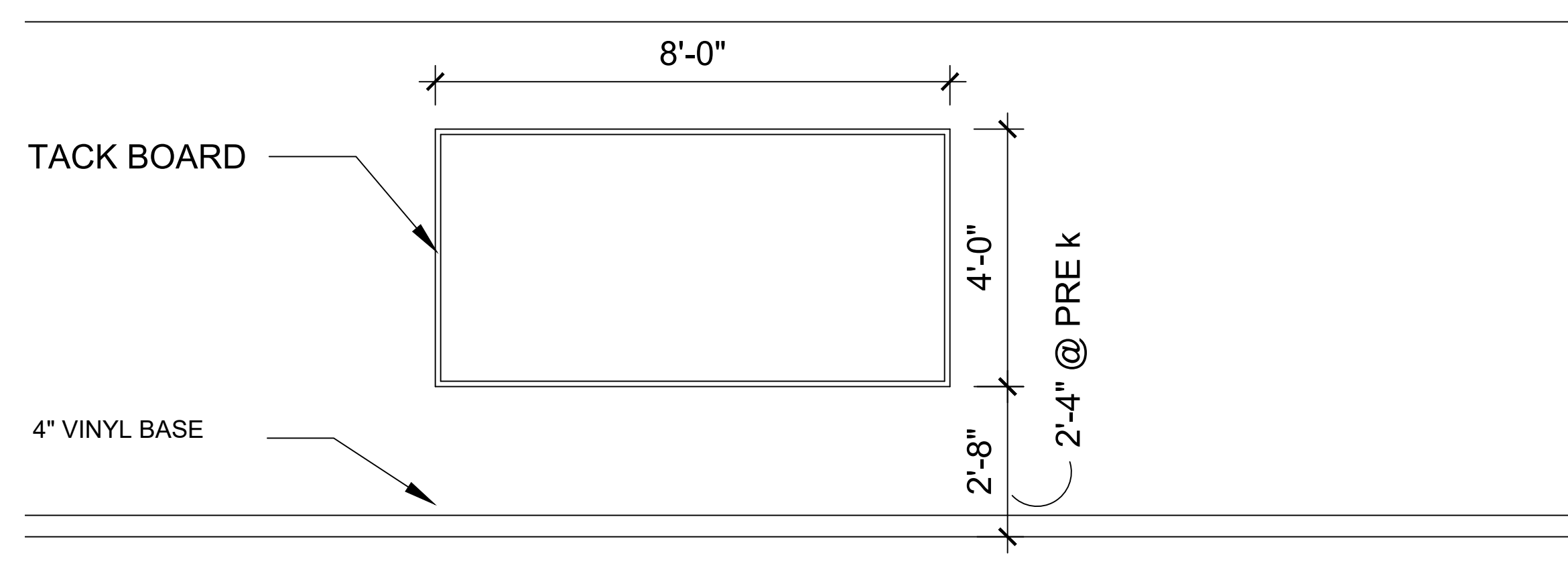
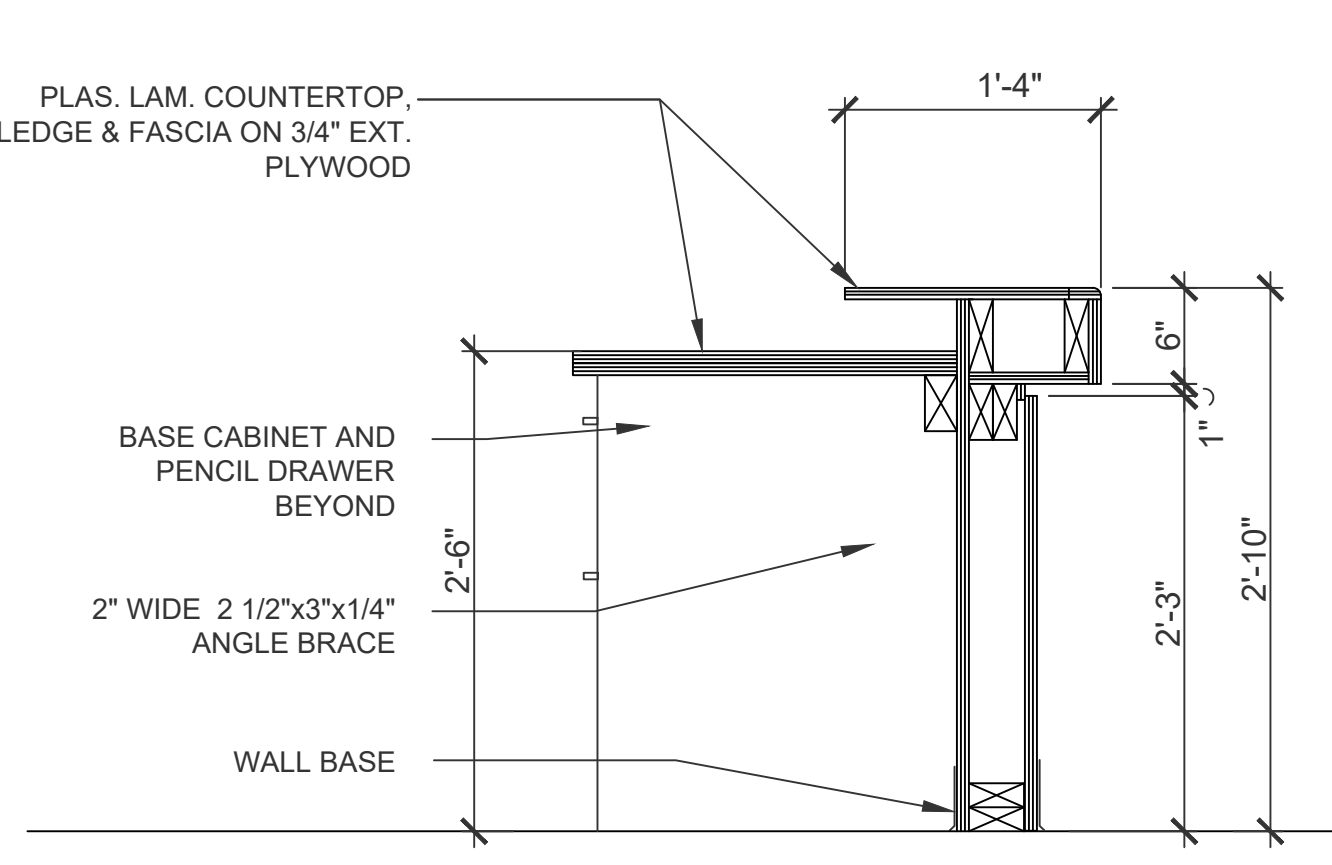
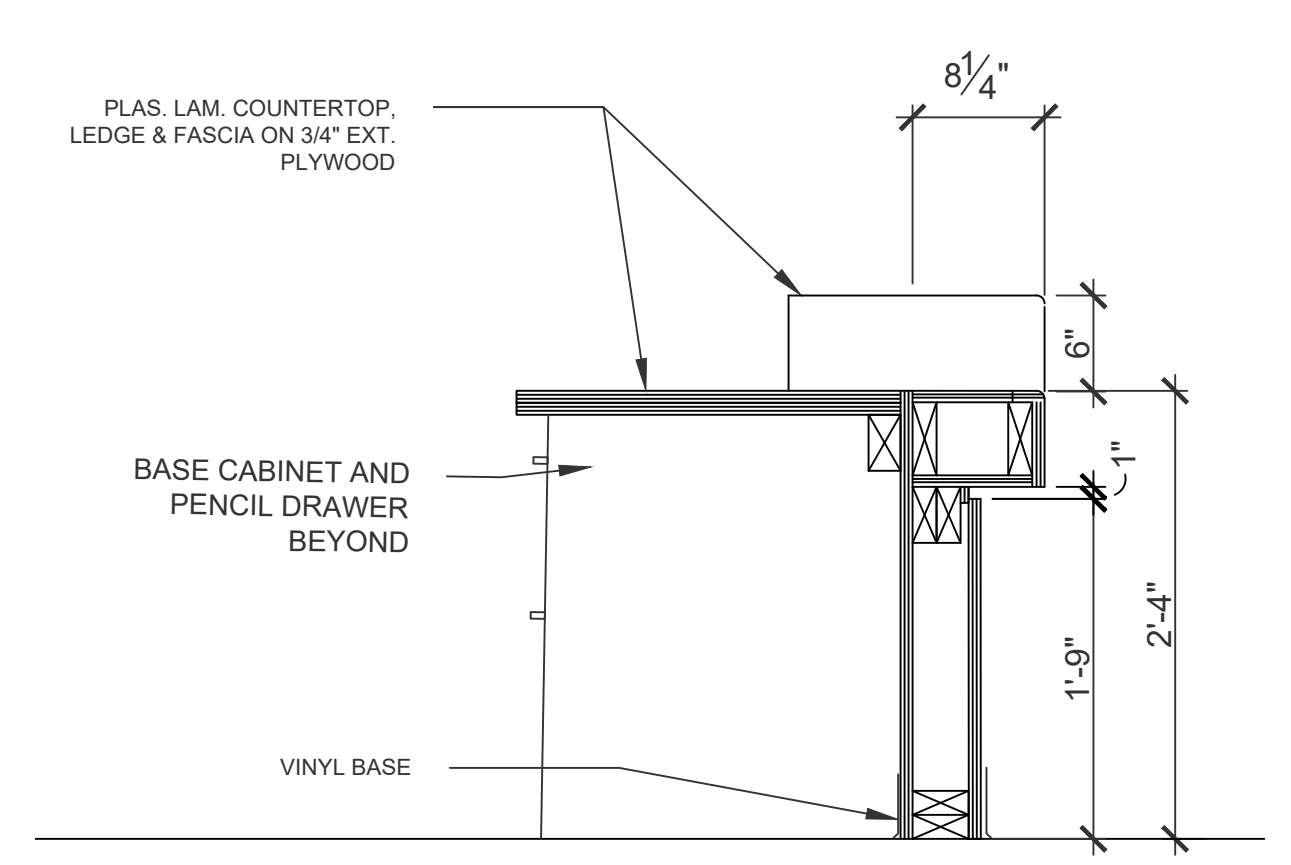
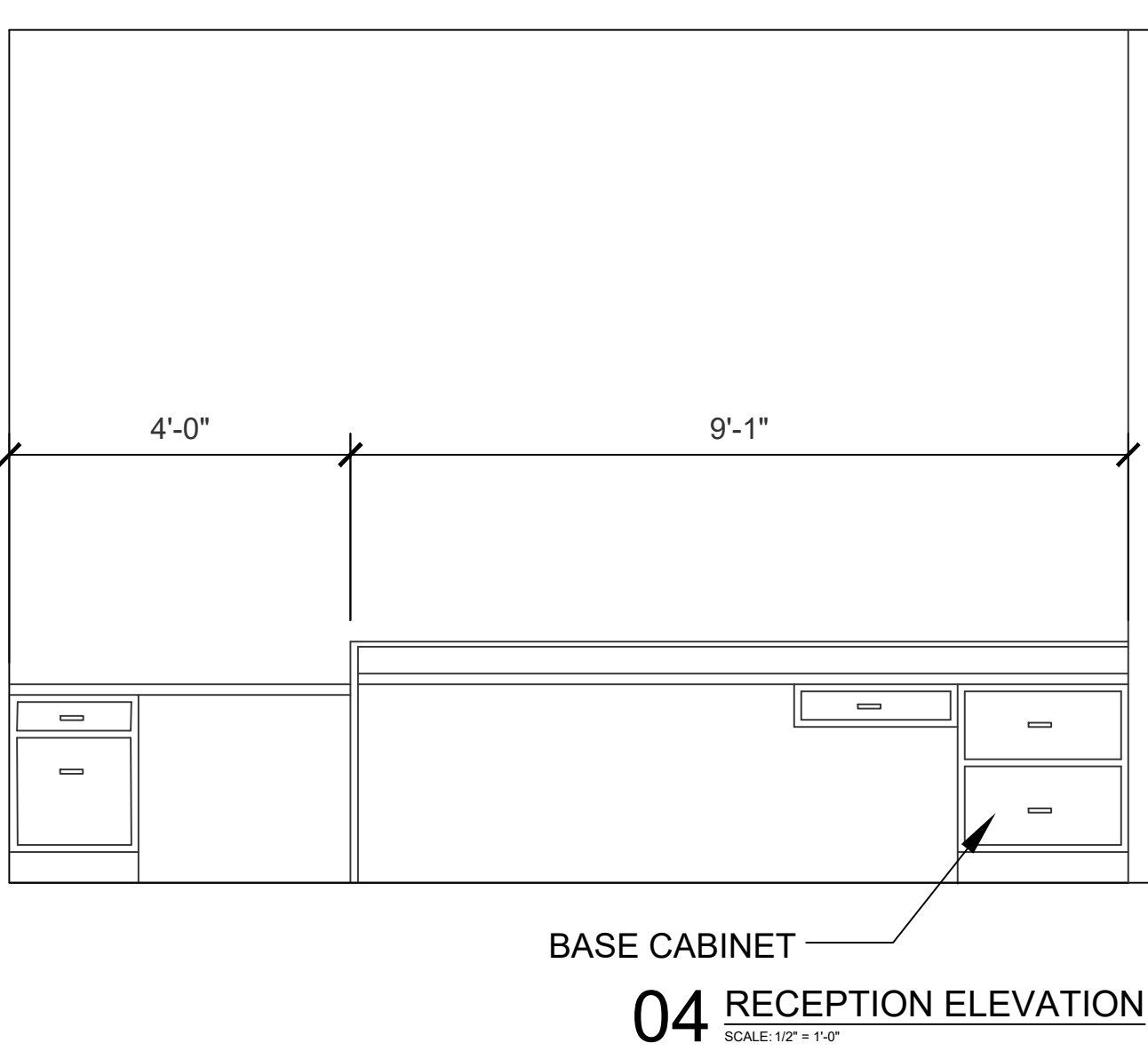
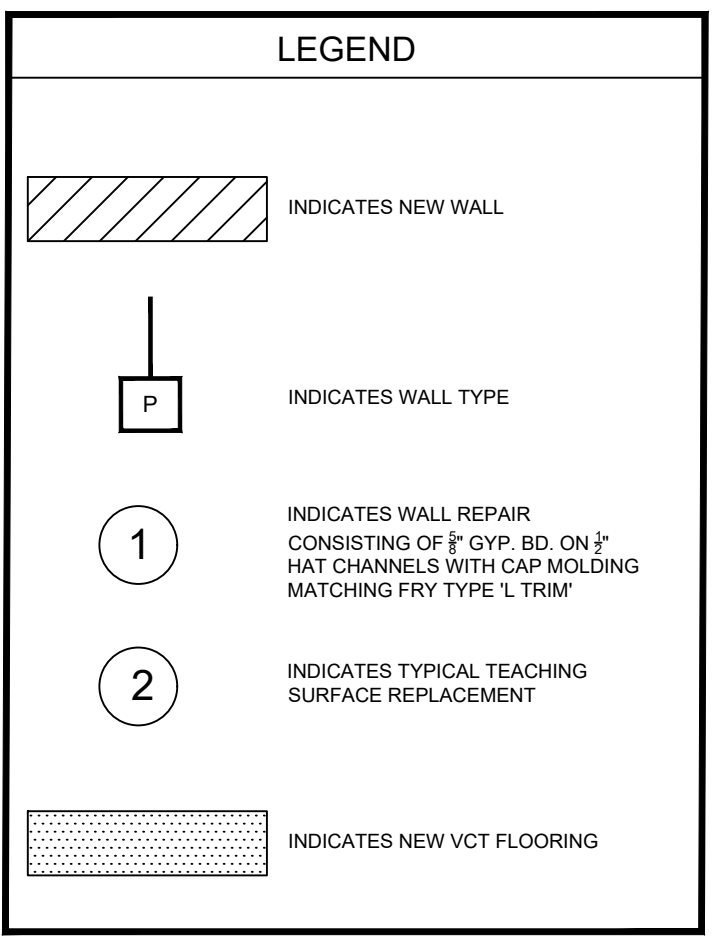
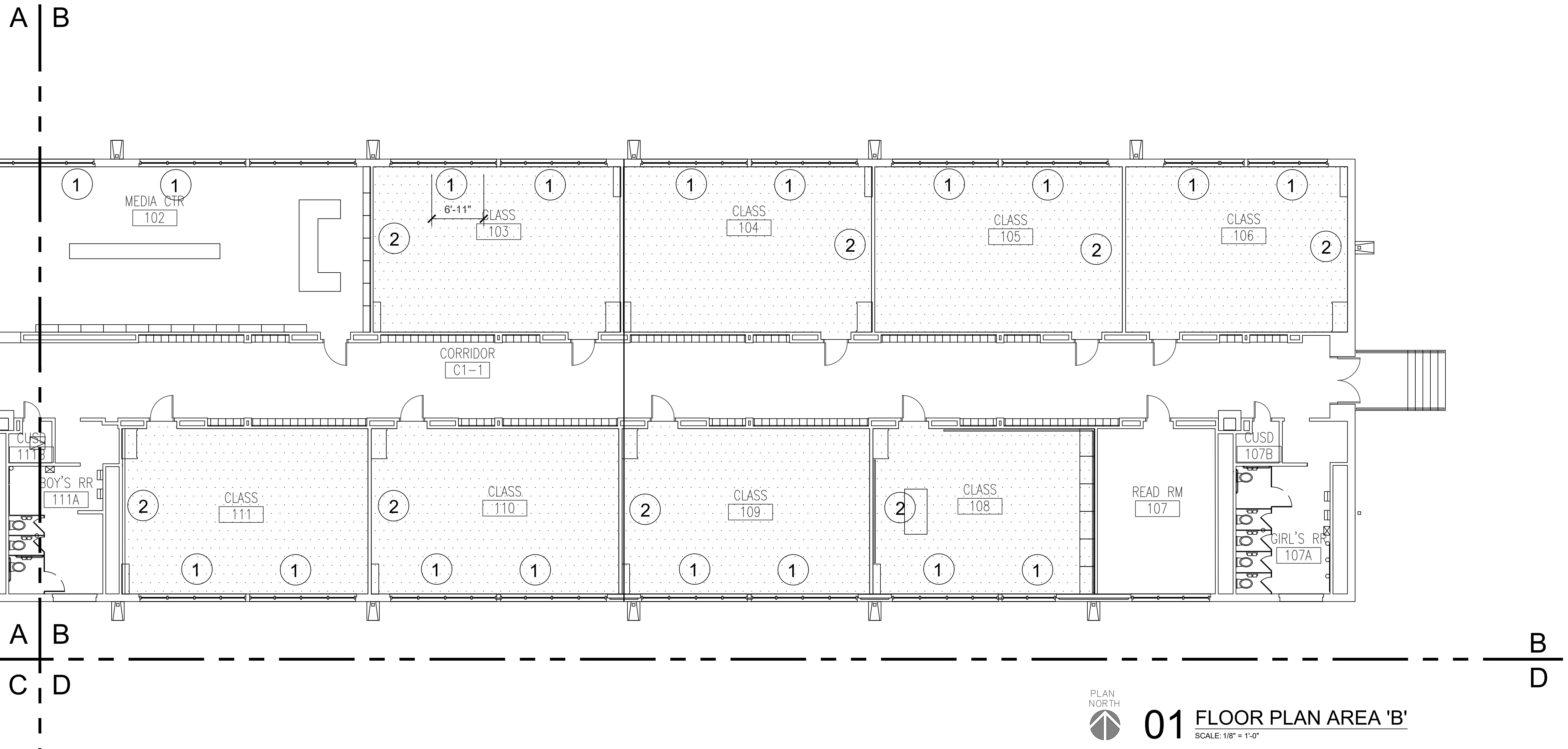
- INDICATES NEW WALL
- INDICATES WALL TYPE
- INDICATES WALL REPAIR CONSISTING OF 1/2" GYP. BD. ON 3" HAT CHANNELS WITH CAP MOLDING MATCHING FRY TYPE 1 TRIM
- INDICATES TYPICAL TEACHING SURFACE REPLACEMENT
- INDICATES NEW VCT FLOORING



FRAME TYPES
 SCALE: 1/4" = 1'-0"
 PAINT ALL HOLLOW METAL FRAMES (TYP.)

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

NOTE:
 (S) INSTALL ROLLER SHADE FULL HEIGHT OF WINDOW



ARCHITECT:

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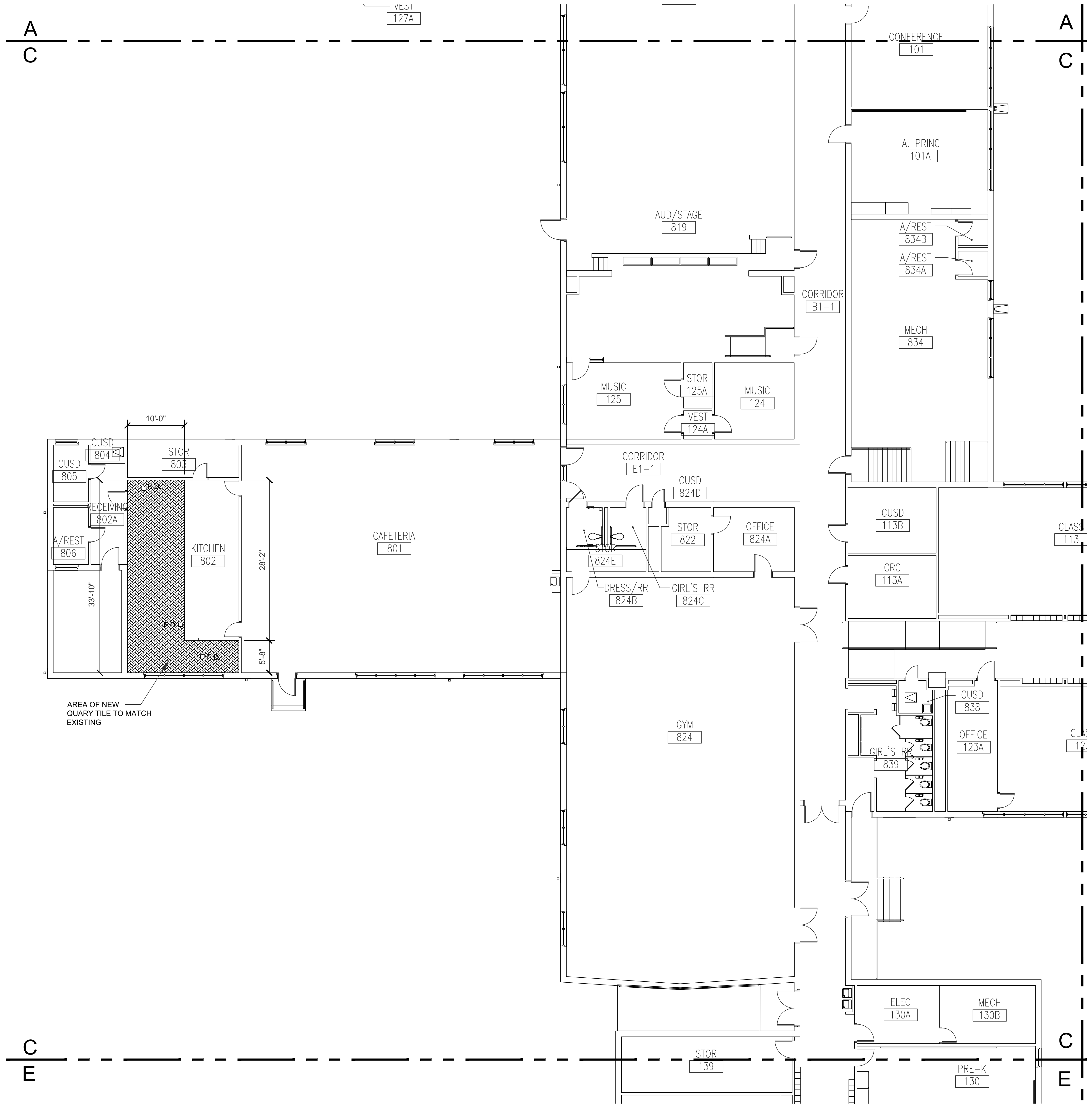
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KEY PLAN

JMA Project Number:
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Sheet Title
FLOOR PLAN AREA 'B'
 Sheet Number
AP102



LEGEND

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| | INDICATES NEW WALL |
| | INDICATES WALL TYPE |
| | INDICATES WALL REPAIR CONSISTING OF 1" GYP. BD. ON 2" HAT CHANNELS WITH CAP MOLDING MATCHING FRV TYPE 1, TRMF. |
| | INDICATES TYPICAL TEACHING SURFACE REPLACEMENT |
| | INDICATES NEW VCT FLOORING |



01 FLOOR PLAN AREA 'C'
SCALE: 1/8" = 1'-0"



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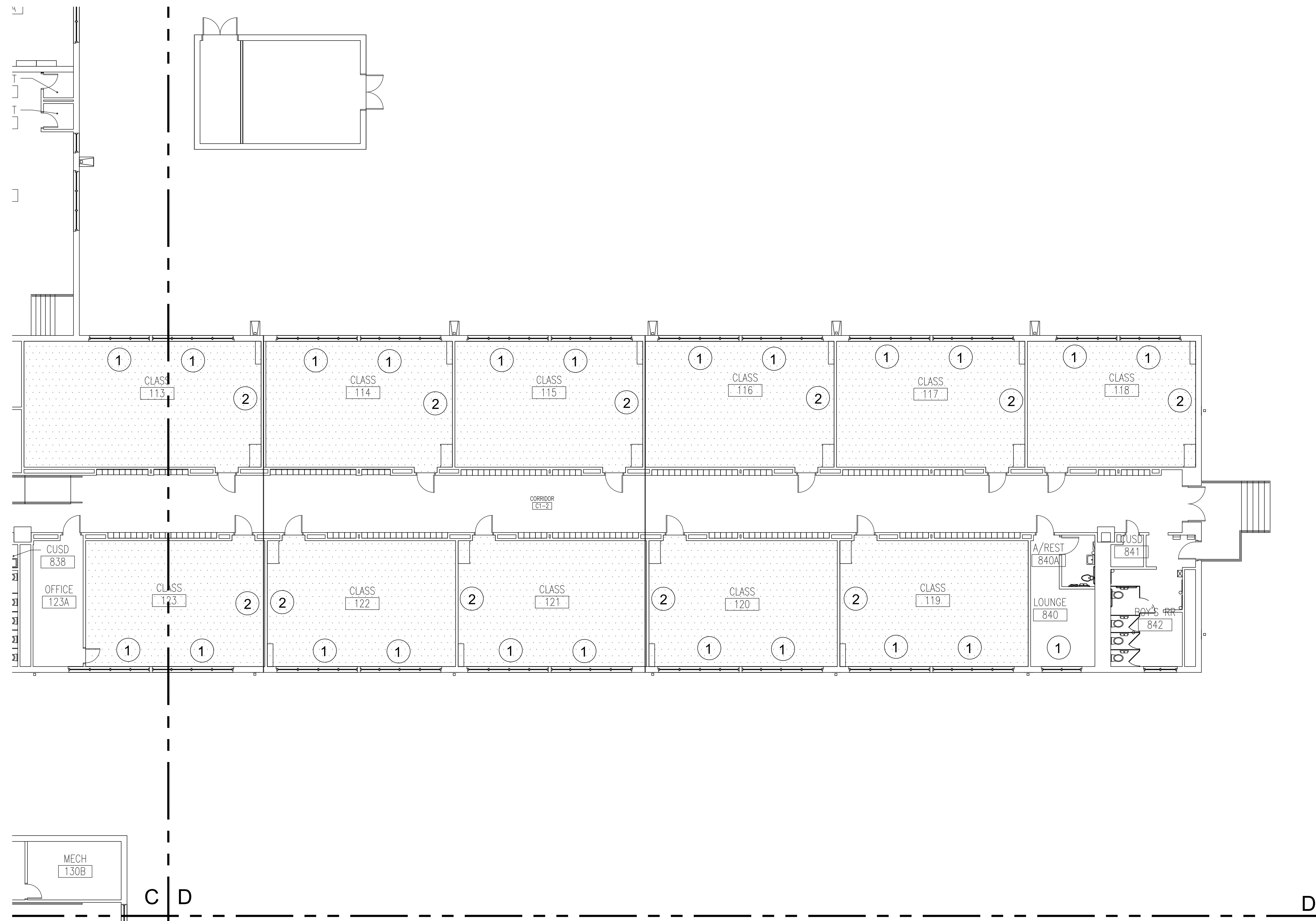
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KEY PLAN

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FLOOR PLAN AREA 'C'
Sheet Number
AP103



| LEGEND | |
|--------|---|
| | INDICATES NEW WALL |
| | INDICATES WALL TYPE |
| | INDICATES WALL REPAIR CONSISTING OF 3/4" GYP. BD. ON 2" HAT CHANNELS WITH GAP MOLDING MATCHING FRY TYPE 'L' TRIM |
| | INDICATES TYPICAL TEACHING SURFACE REPLACEMENT |
| | INDICATES NEW VCT FLOORING |



01 FLOOR PLAN AREA 'D'
SCALE: 1/8" = 1'-0"

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KEY PLAN

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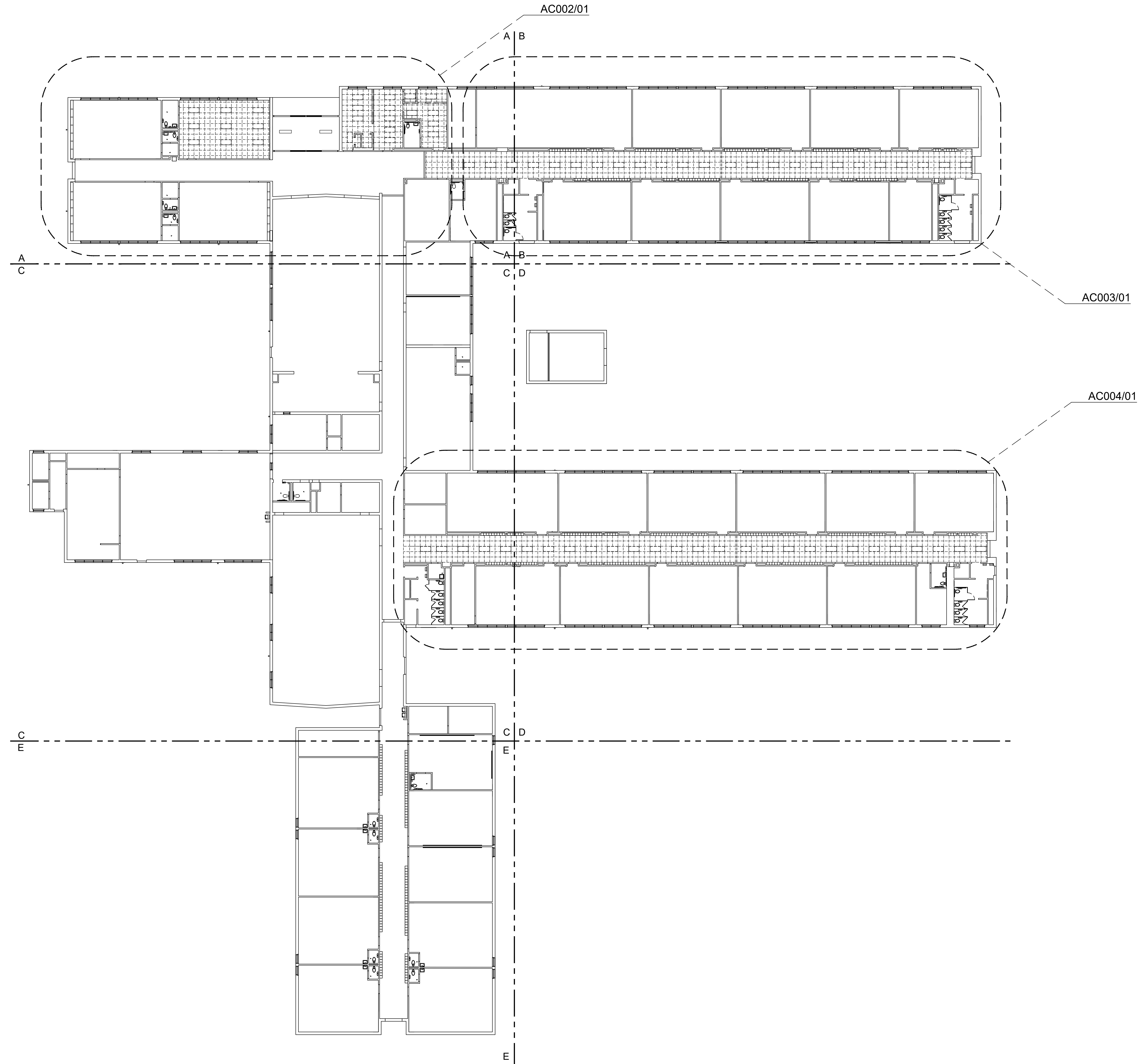
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Sheet Title

FLOOR PLAN
AREA 'D'

Sheet Number

AP104



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KEY PLAN

JMA Project Number:
 Date:
 Scale:

Sheet Title
 COMPOSITE
 CEILING DEMO
 PLAN
 Sheet Number
 AC001

ARCHITECT:



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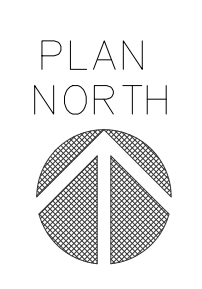
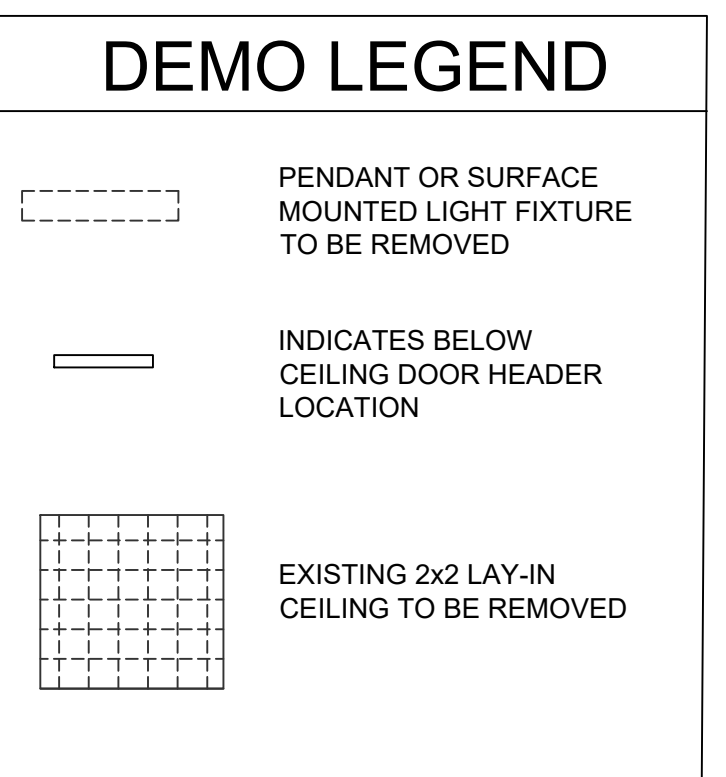
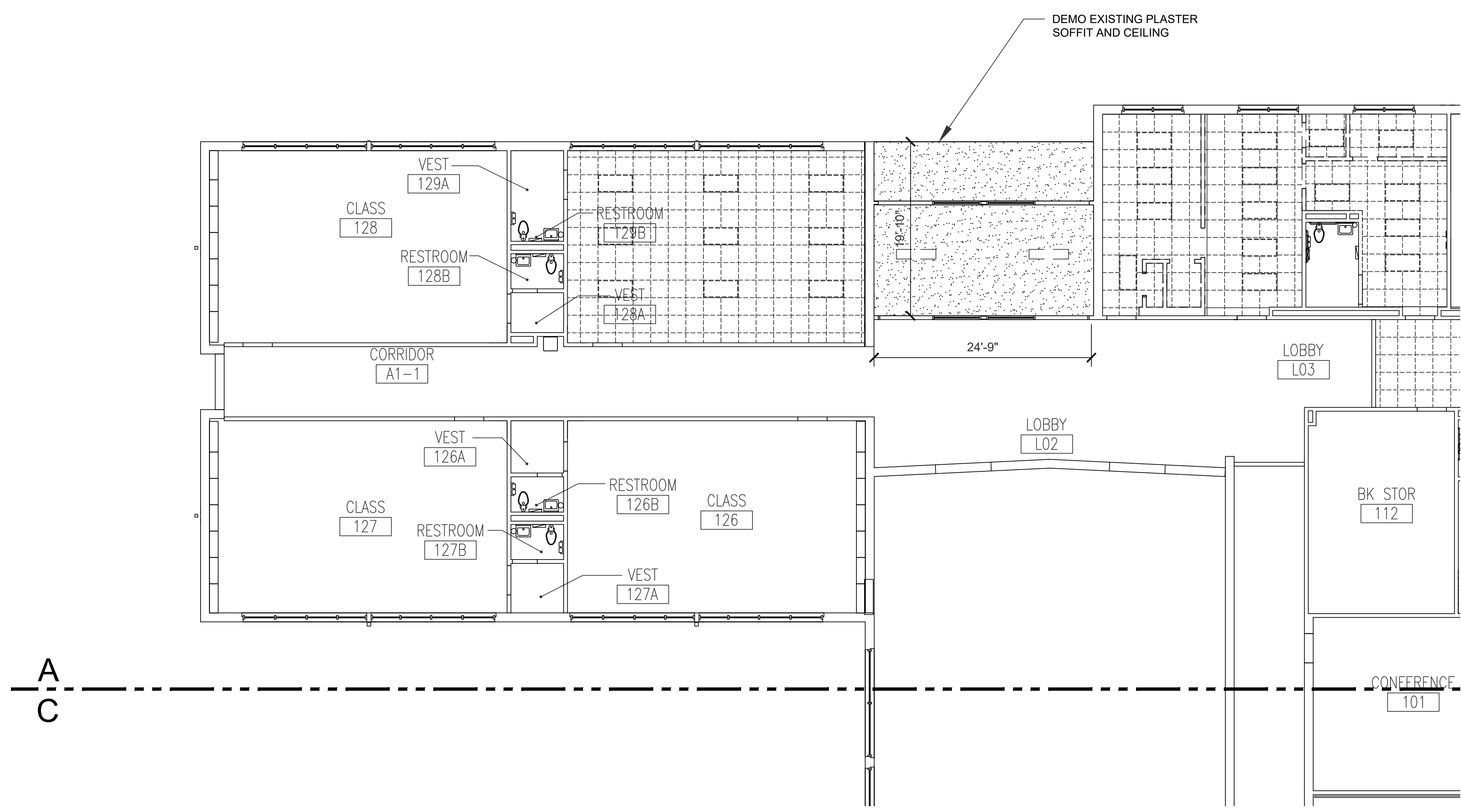
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01 CEILING DEMO PLAN AREA 'A'
SCALE: 1/8" = 1'-0"

- GENERAL NOTE:**
- CONTRACTOR SHALL RE-ORIENT SPRINKLER HEADS TO BE BELOW NEW CEILING TILE.
 - AREAS THAT SHOW NO DEMOLITION PATTERNS INDICATE NO CEILING DEMOLITION WORK TO BE PERFORMED. U.N.O.

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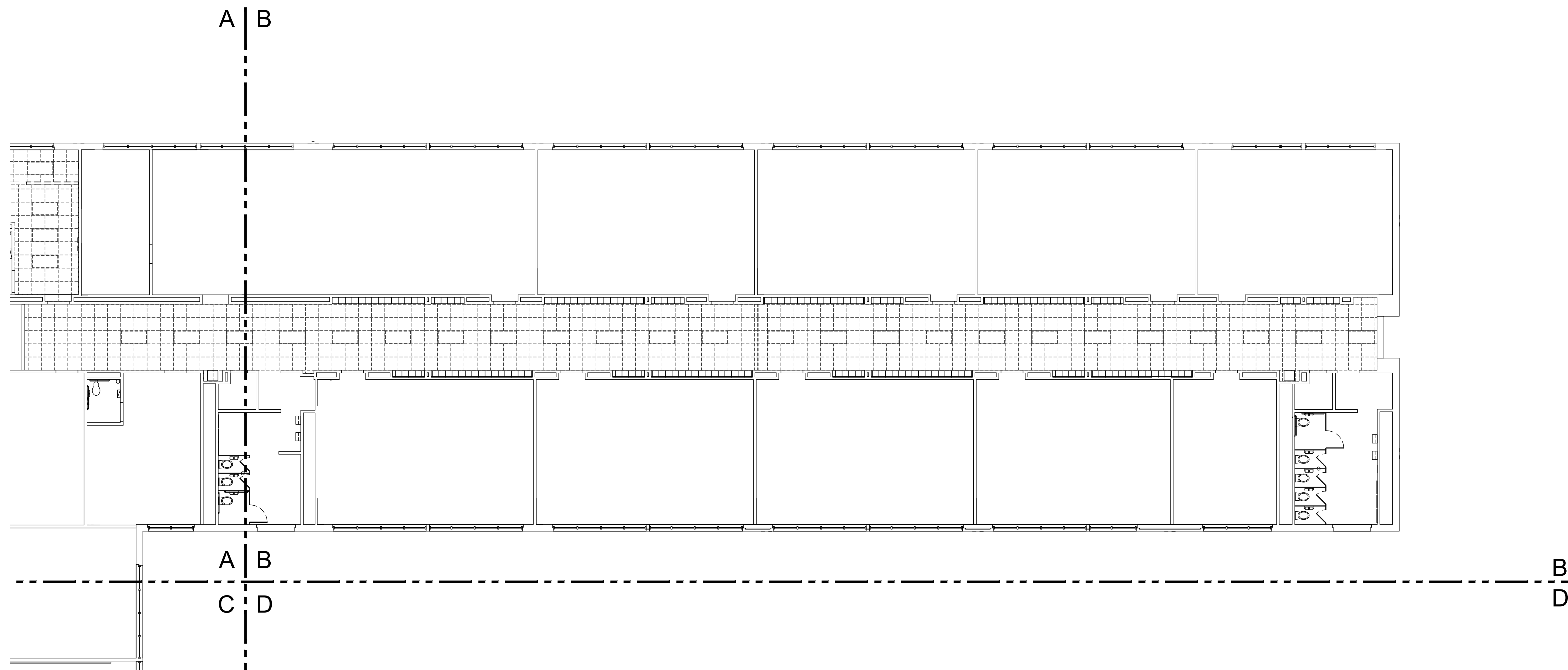
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Sheet Title

CEILING DEMO PLAN AREA 'A'

Sheet Number

AC002



01 CEILING DEMO PLAN AREA 'B'
SCALE: 1/8" = 1'-0"

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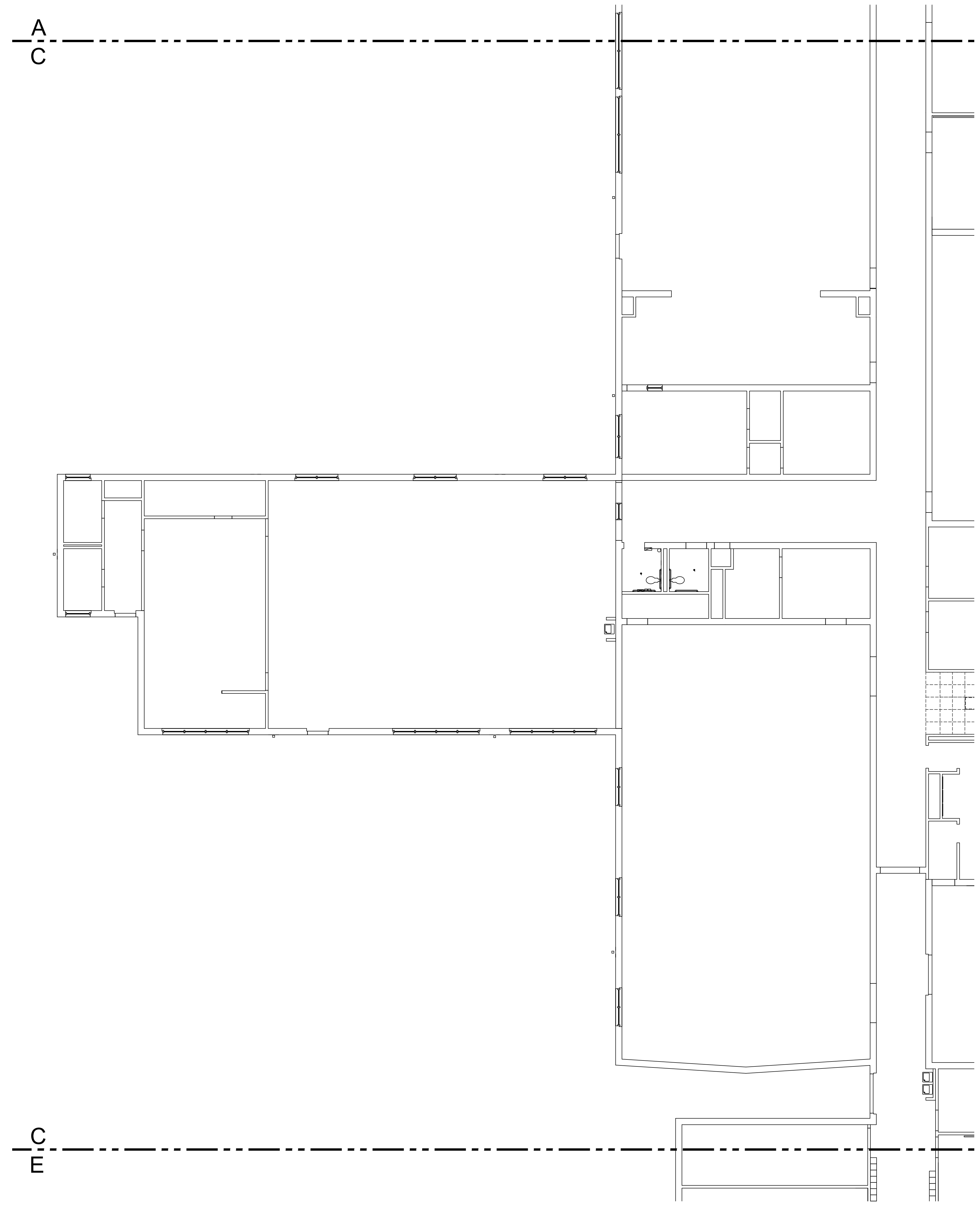
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Sheet Title
CEILING DEMO
PLAN
AREA 'B'

Sheet Number
AC003



A
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01 CEILING DEMO PLAN AREA 'C'
SCALE: 1/8" = 1'-0"

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KEY PLAN

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Sheet Title

CEILING DEMO
PLAN
AREA 'C'
Sheet Number

AC004



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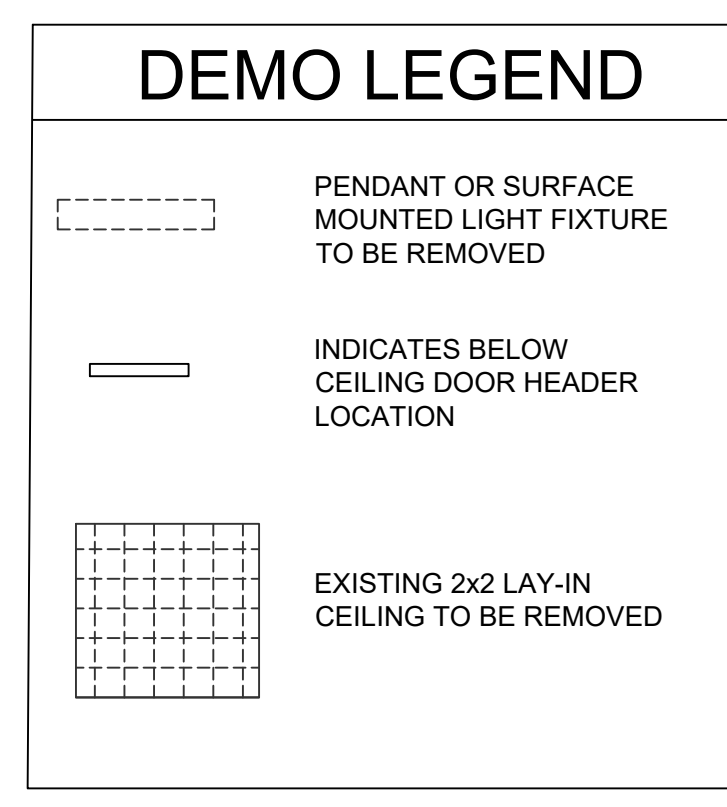
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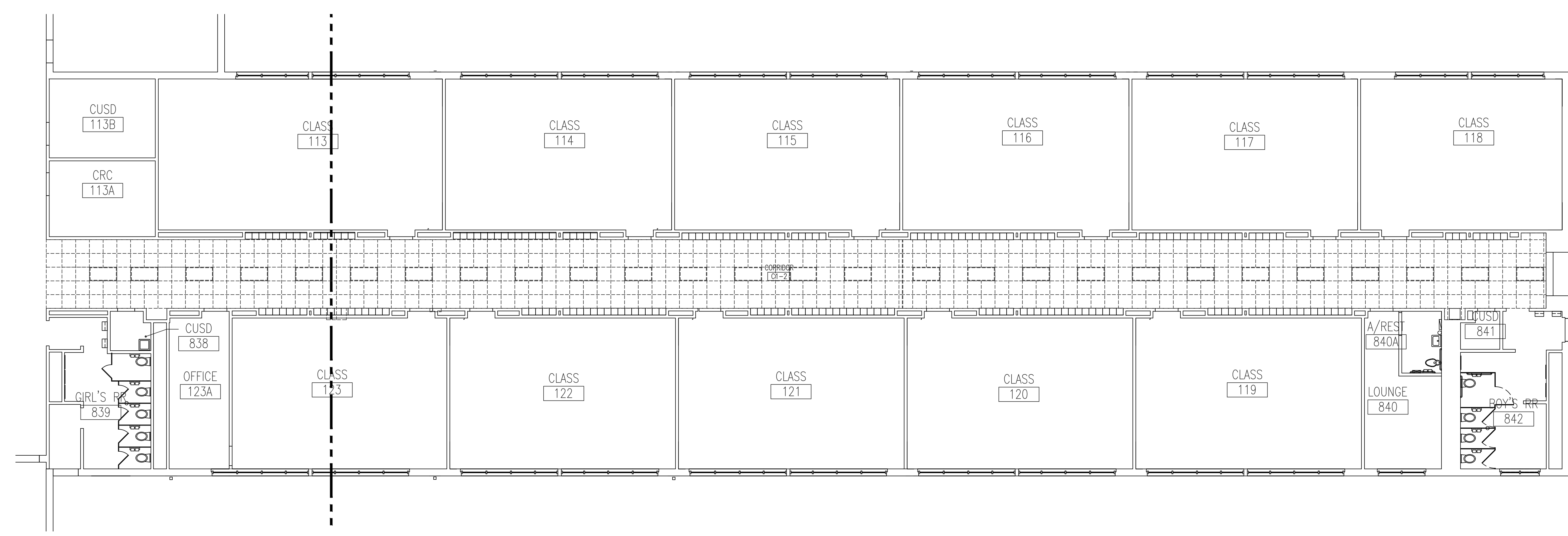
KEY PLAN

JMA Project Number:
 Date:
 Scale:

Sheet Title
 CEILING DEMO PLAN
 AREA 'D'
 Sheet Number
AC005



- GENERAL NOTE:**
1. CONTRACTOR SHALL RE-ORIENT SPRINKLER HEADS TO BE BELOW NEW CEILING TILE.
 2. AREAS THAT SHOW NO DEMOLITION PATTERNS INDICATE NO CEILING DEMOLITION WORK TO BE PERFORMED. U.N.O.



PLAN NORTH
01 CEILING DEMO PLAN AREA 'D'
 SCALE: 1/8" = 1'-0"

ARCHITECT:



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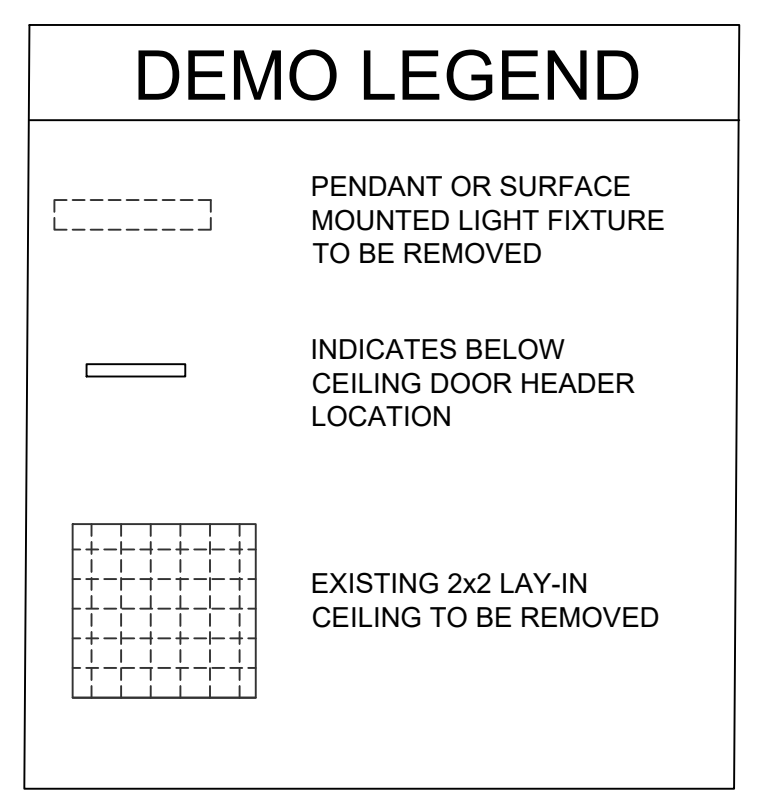
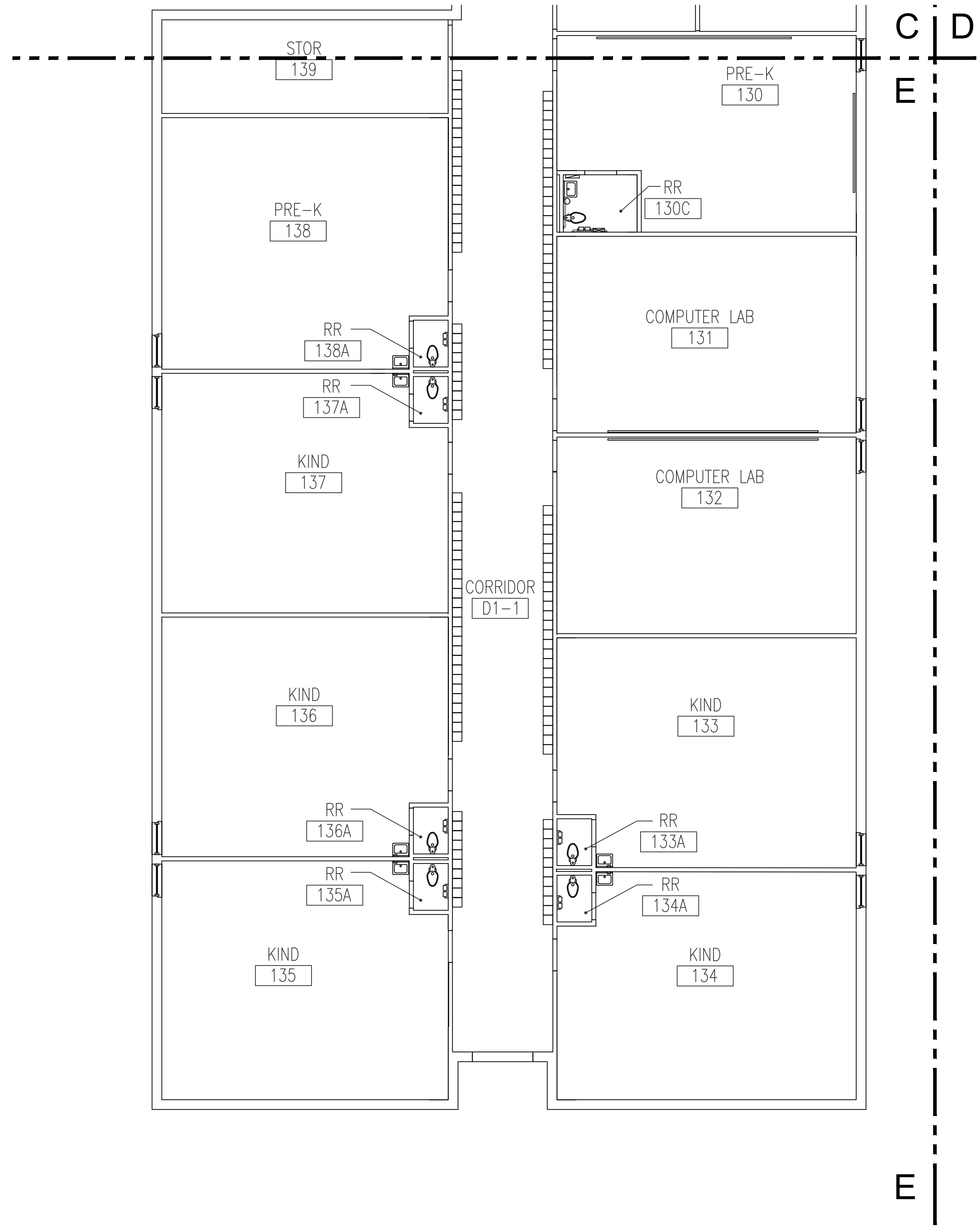
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KEY PLAN

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Sheet Title

CEILING DEMO PLAN
AREA 'E'
Sheet Number
AC006

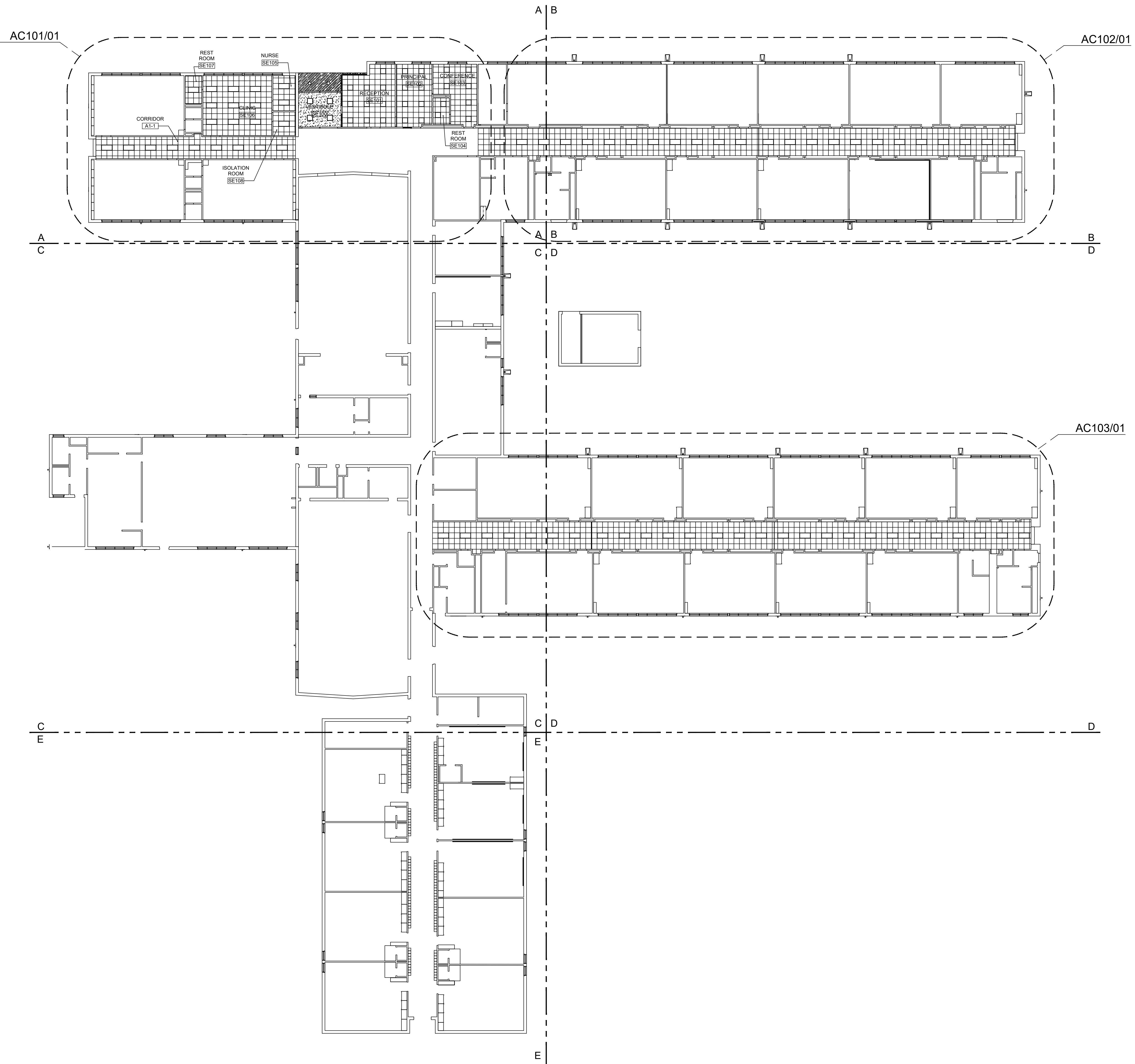


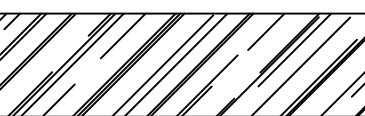
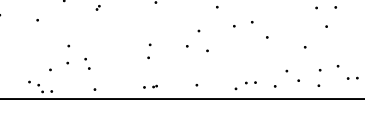
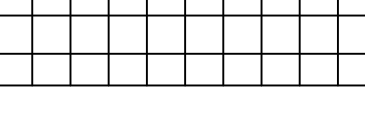



- GENERAL NOTE:**
- CONTRACTOR SHALL RE-ORIENT SPRINKLER HEADS TO BE BELOW NEW CEILING TILE.
 - AREAS THAT SHOW NO DEMOLITION PATTERNS INDICATE NO CEILING DEMOLITION WORK TO BE PERFORMED. U.N.O.

NOTE:
NO CEILING WORK THIS AREA



01 CEILING DEMO PLAN AREA 'E'
SCALE: 1/8" = 1'-0"



| LEGEND | |
|---|----------------------------|
|  | INDICATES PLASTER SOFFIT |
|  | INDICATES GYP. BD. CEILING |
|  | INDICATES LAY-IN CEILING |
|  | 2X2 LIGHT FIXTURE |
|  | 2X4 LAY-IN LIGHT FIXTURE |
|  | RECESSED LIGHT FIXTURE |

GENERAL NOTE:
 CONTRACTOR SHALL RE-ORIENT SPRINKLER HEADS IN ACCORDANCE WITH APPLICABLE FIRE CODE
 LAY-IN CEILING HEIGHT SHALL BE 9'-0" U.N.O.

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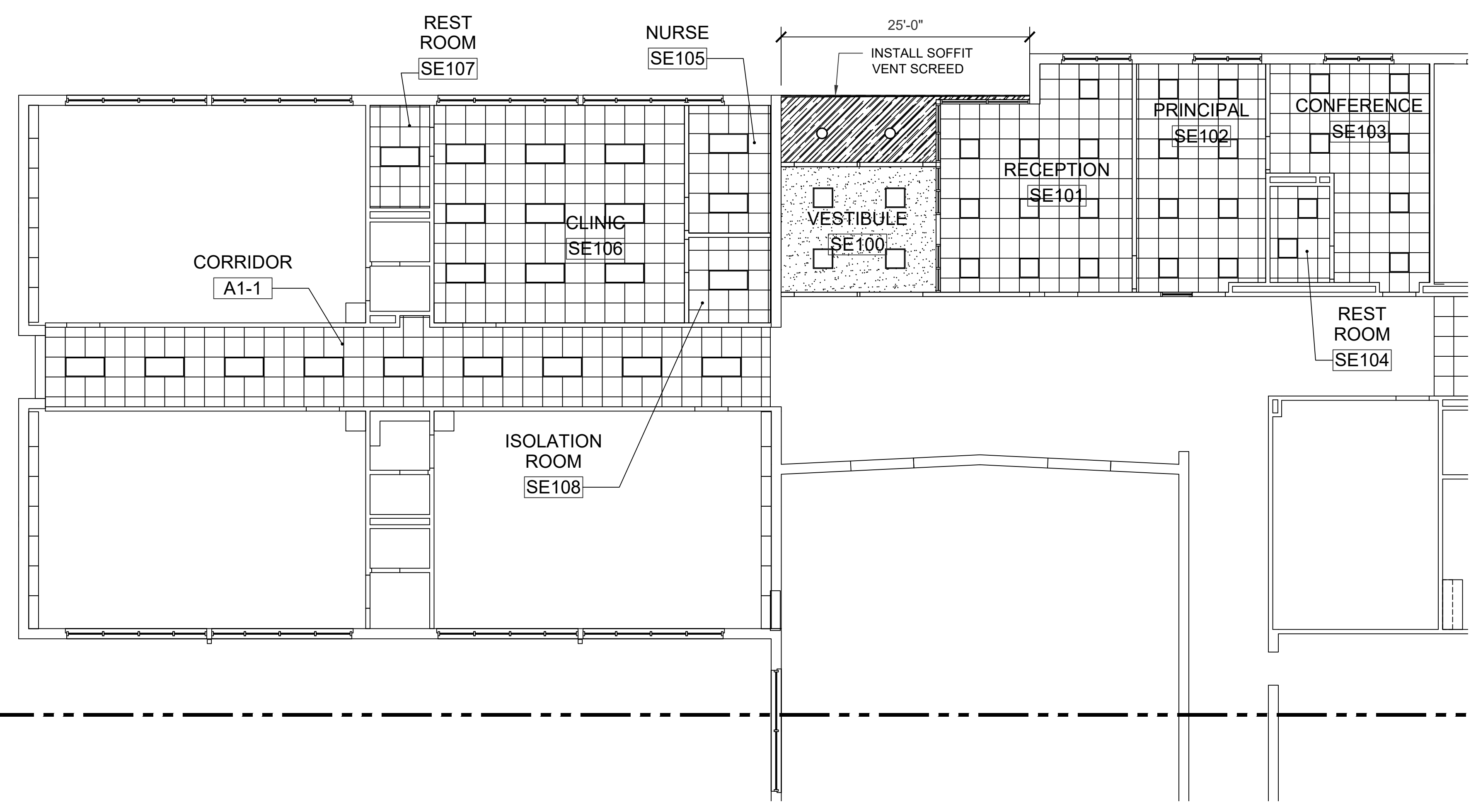
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KEY PLAN


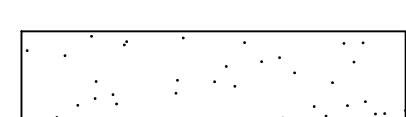
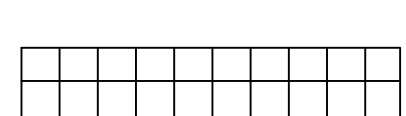
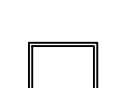
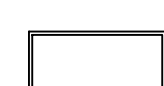

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Sheet Title
**CEILING PLAN
 AREA 'A'**

Sheet Number
AC101



LEGEND

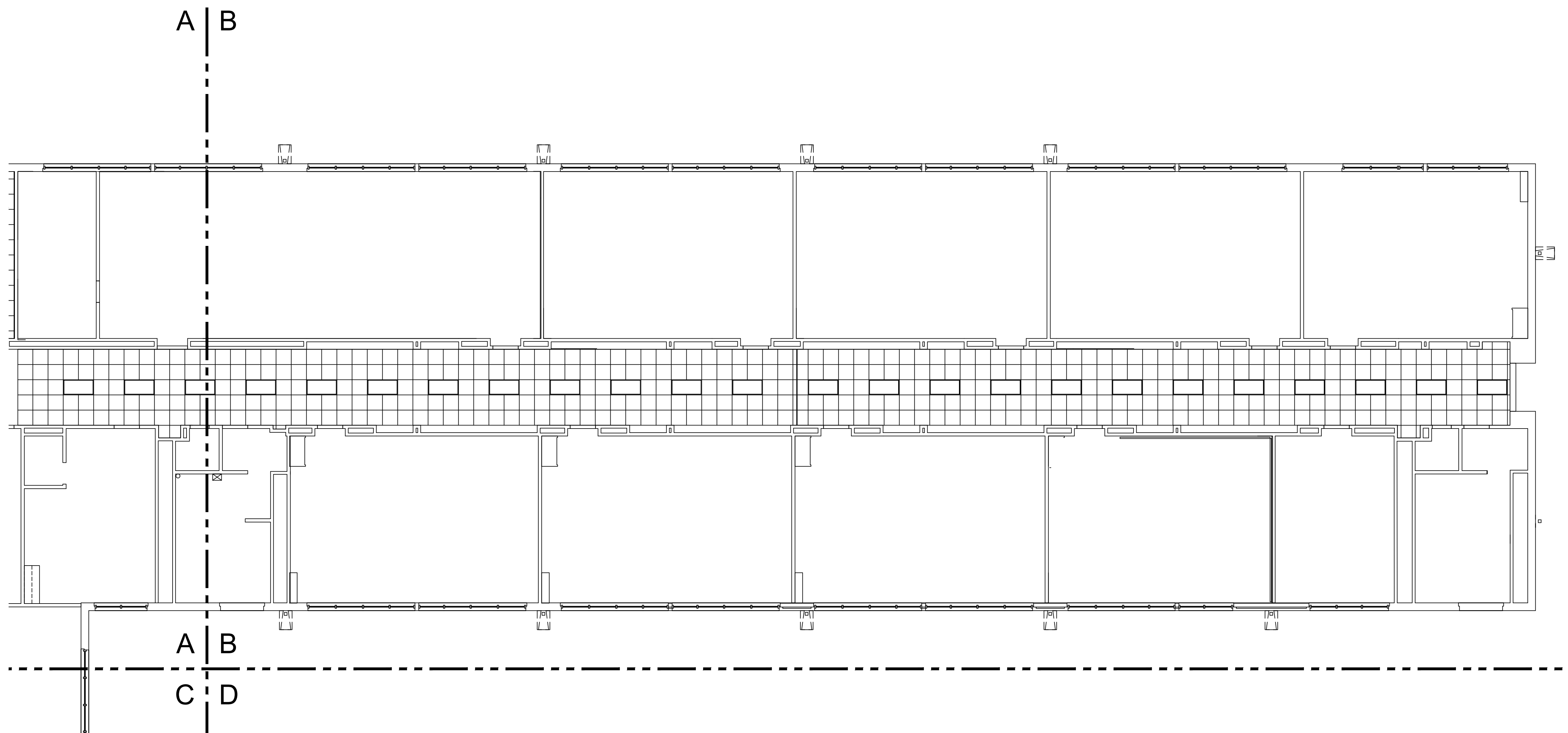
-  INDICATES PLASTER SOFFIT
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-  INDICATES LAY-IN CEILING
-  2X2 LIGHT FIXTURE
-  2X4 LAY-IN LIGHT FIXTURE
-  RECESSED LIGHT FIXTURE

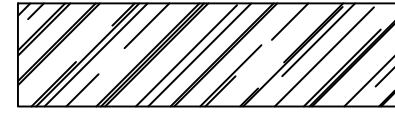
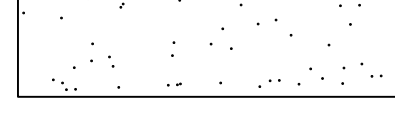
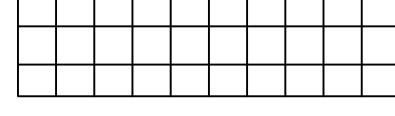
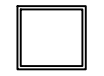
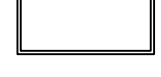

GENERAL NOTE:
 CONTRACTOR SHALL RE-ORIENT SPRINKLER HEADS IN ACCORDANCE WITH APPLICABLE FIRE CODE
 LAY-IN CEILING HEIGHT SHALL BE 9'-0" U.N.O.

A
 C

PLAN NORTH

01 RFLC PLAN AREA 'A'
 SCALE: 1/8" = 1'-0"



| LEGEND | |
|---|----------------------------|
|  | INDICATES PLASTER SOFFIT |
|  | INDICATES GYP. BD. CEILING |
|  | INDICATES LAY-IN CEILING |
|  | 2X2 LIGHT FIXTURE |
|  | 2X4 LAY-IN LIGHT FIXTURE |
|  | RECESSED LIGHT FIXTURE |

GENERAL NOTE:
 CONTRACTOR SHALL RE-ORIENT SPRINKLER HEADS IN ACCORDANCE WITH APPLICABLE FIRE CODE
 LAY-IN CEILING HEIGHT SHALL BE 9'-0" U.N.O.



01 CEILING PLAN AREA 'B'
 SCALE: 1/8" = 1'-0"

ARCHITECT:



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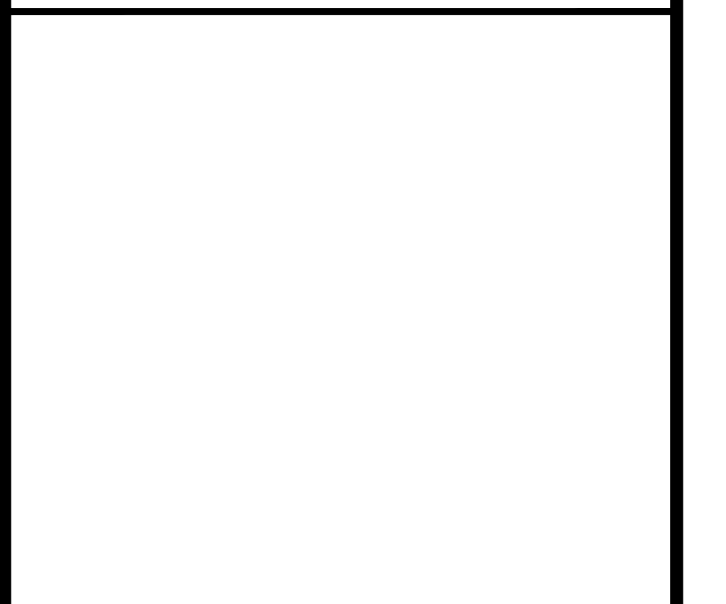
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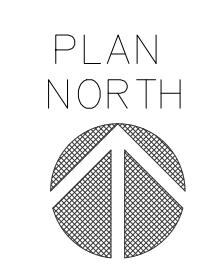
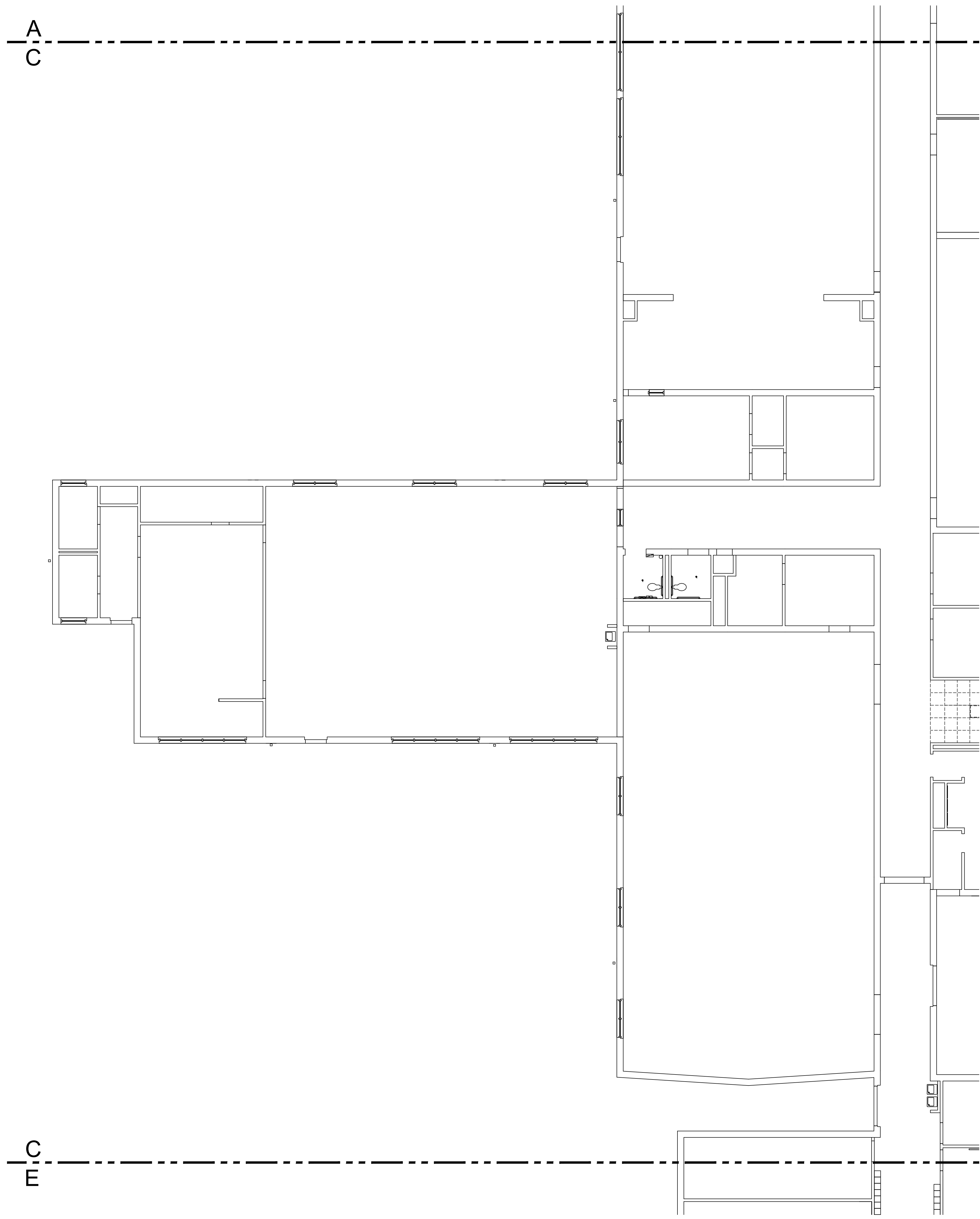
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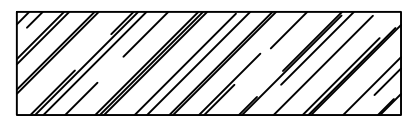

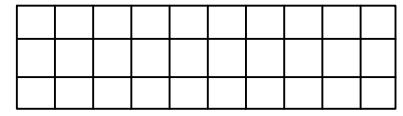

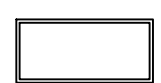

Sheet Title
 CEILING PLAN
 AREA 'B'

Sheet Number

AC102



01 CEILING PLAN AREA 'C'
SCALE: 1/8" = 1'-0"

| LEGEND | |
|---|----------------------------|
|  | INDICATES PLASTER SOFFIT |
|  | INDICATES GYP. BD. CEILING |
|  | INDICATES LAY-IN CEILING |
|  | 2X2 LIGHT FIXTURE |
|  | 2X4 LAY-IN LIGHT FIXTURE |
|  | RECESSED LIGHT FIXTURE |

GENERAL NOTE:
CONTRACTOR SHALL RE-ORIENT SPRINKLER HEADS IN ACCORDANCE WITH APPLICABLE FIRE CODE
LAY-IN CEILING HEIGHT SHALL BE 9'-0" U.N.O.

ARCHITECT:



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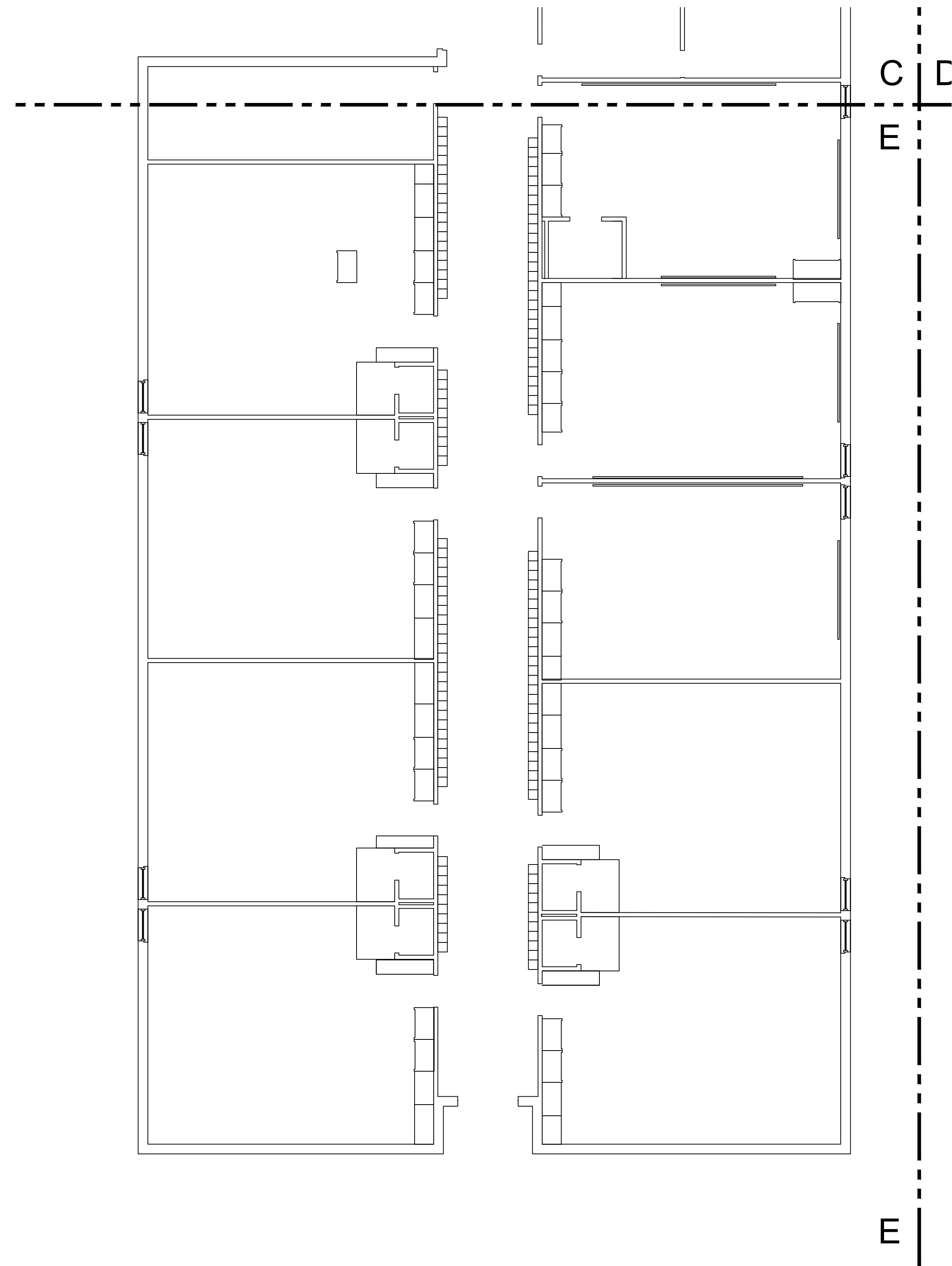
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KEY PLAN

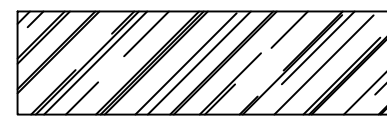
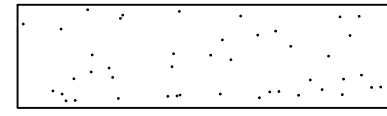
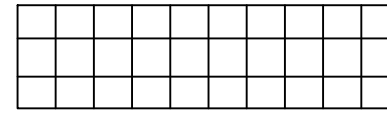

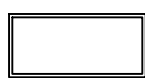

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Date:
Scale:

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CEILING PLAN AREA 'C'

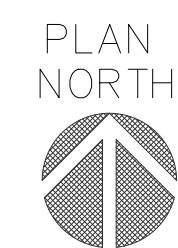
Sheet Number
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NOTE:
NO CEILING WORK THIS AREA

| LEGEND | |
|---|----------------------------|
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|  | INDICATES GYP. BD. CEILING |
|  | INDICATES LAY-IN CEILING |
|  | 2X2 LIGHT FIXTURE |
|  | 2X4 LAY-IN LIGHT FIXTURE |
|  | RECESSED LIGHT FIXTURE |

GENERAL NOTE:
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LAY-IN CEILING HEIGHT SHALL BE 9'-0" U.N.O.



01 CEILING PLAN AREA 'E'
SCALE: 1/8" = 1'-0"

ARCHITECT:



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KEY PLAN

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Date:

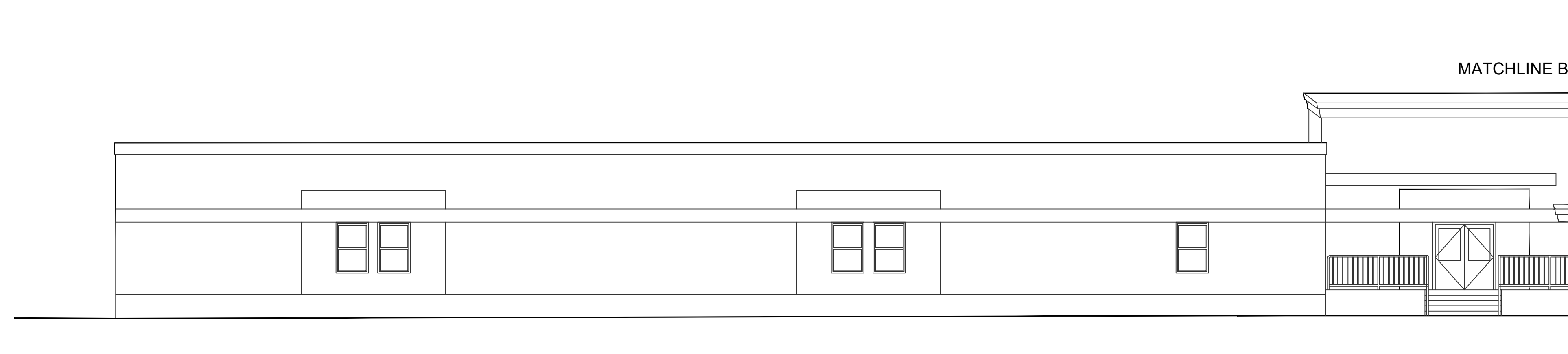
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CEILING PLAN
AREA 'E'

Sheet Number

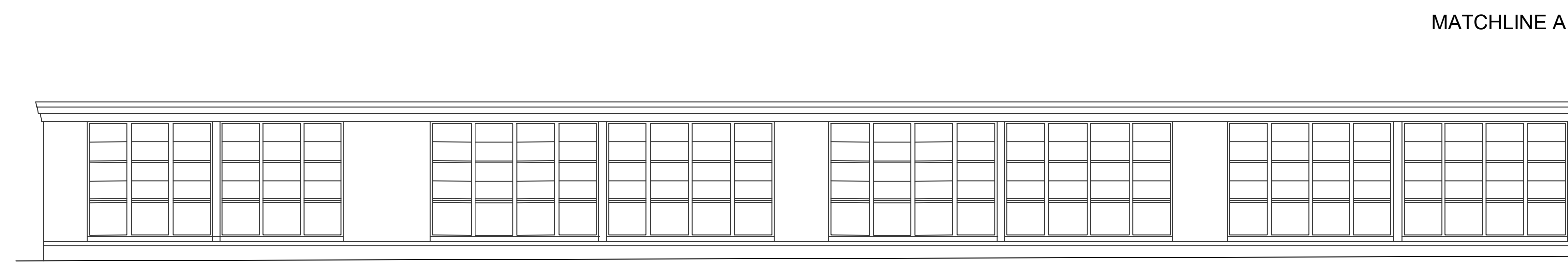
AC104



04 EAST ELEVATION SOUTH END
SCALE: 1/8" = 1'-0"



03 EAST ELEVATION NORTH END
SCALE: 1/8" = 1'-0"



02 NORTH ELEVATION EAST END
SCALE: 1/8" = 1'-0"



01 NORTH ELEVATION WEST END
SCALE: 1/8" = 1'-0"

NOTE:
CONTRACTOR TO FIELD
VERIFY DETERIORATED
SEALANT JOINT
LOCATIONS.
CONTRACTOR TO
REPLACE DETERIORATED
SEALANT

ARCHITECT:



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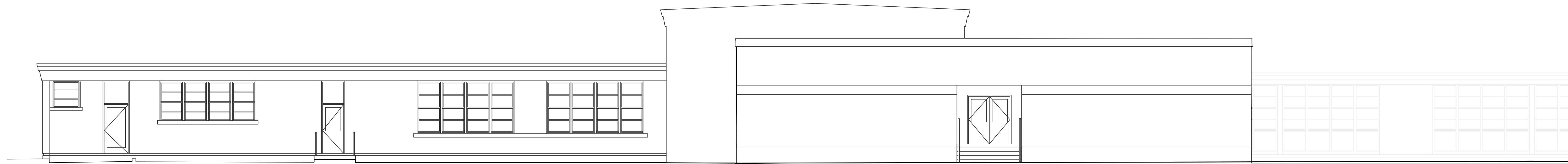
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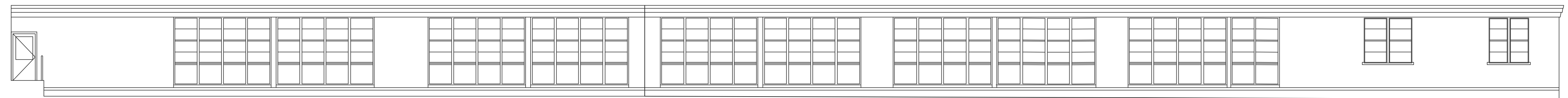
EXTERIOR
ELEVATIONS

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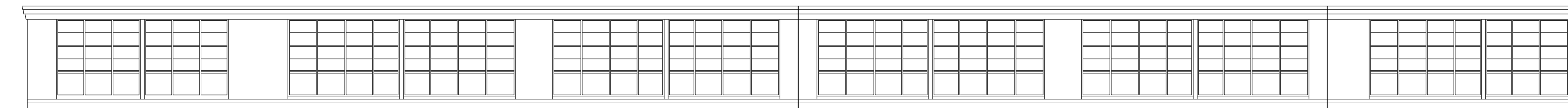


04 SOUTH EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"

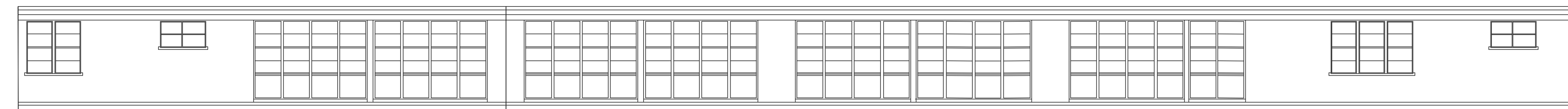


03 SOUTH EXTERIOR ELEVATION EAST END
SCALE: 1/8" = 1'-0"

NOTE:
CONTRACTOR TO FIELD
VERIFY DETERIORATED
SEALANT JOINT
LOCATIONS.
CONTRACTOR TO
REPLACE DETERIORATED
SEALANT



02 NORTH EXTERIOR COURTYARD ELEVATION EAST END
SCALE: 1/8" = 1'-0"



01 SOUTH EXTERIOR COURTYARD ELEVATION EAST END
SCALE: 1/8" = 1'-0"

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KEY PLAN

JMA Project Number:

Date:

Scale:

Sheet Title

EXTERIOR
ELEVATIONS

Sheet Number

AE101



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KEY PLAN

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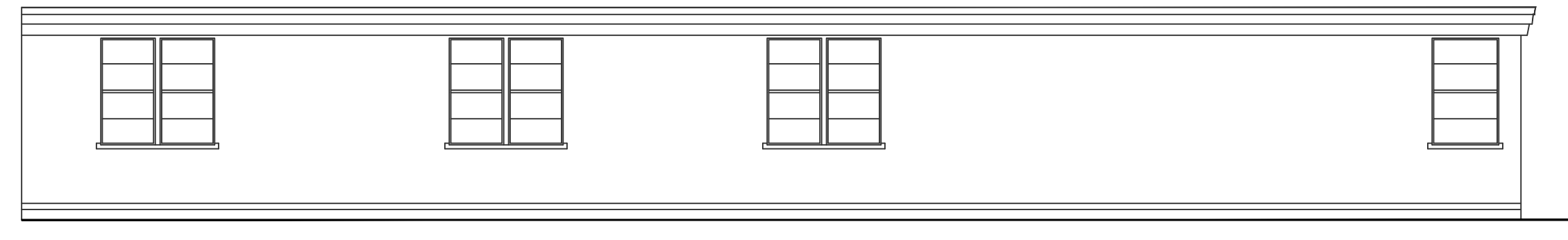
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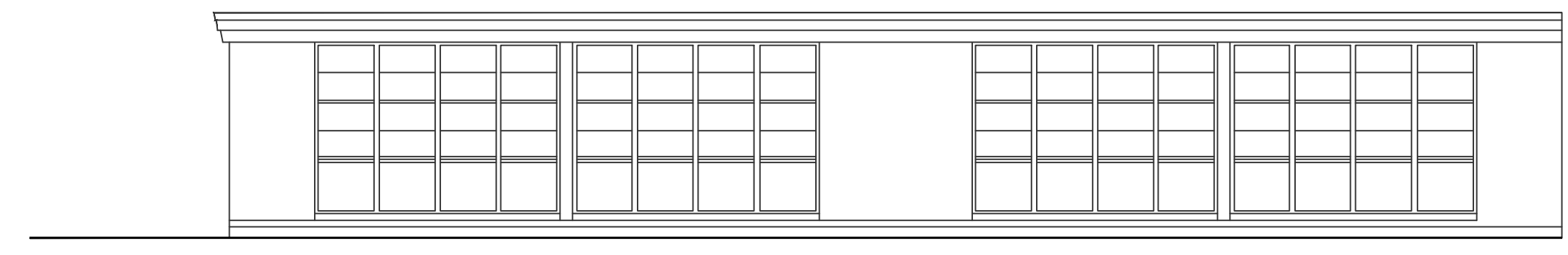
EXTERIOR ELEVATIONS

Sheet Number

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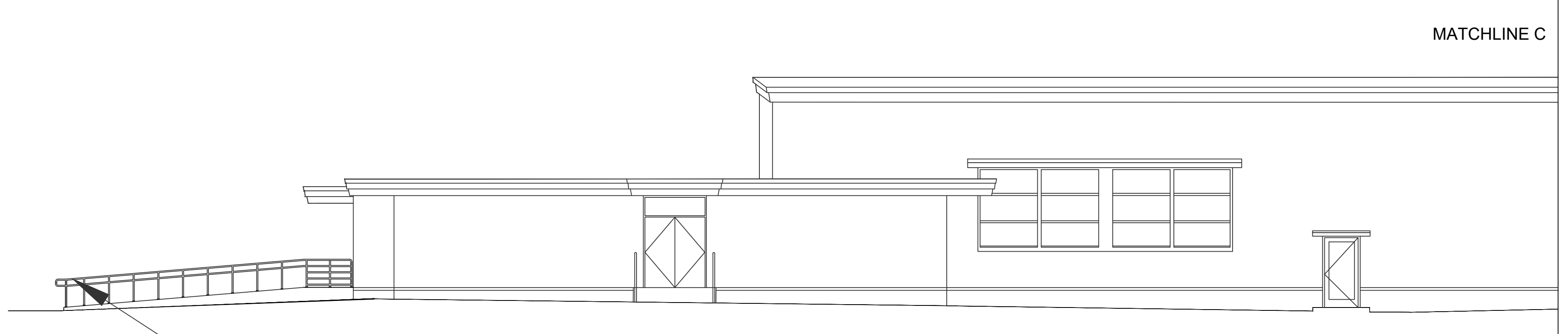


04 NORTH EXTERIOR ELEVATION COURTYARD WEST END
SCALE: 1/8" = 1'-0"



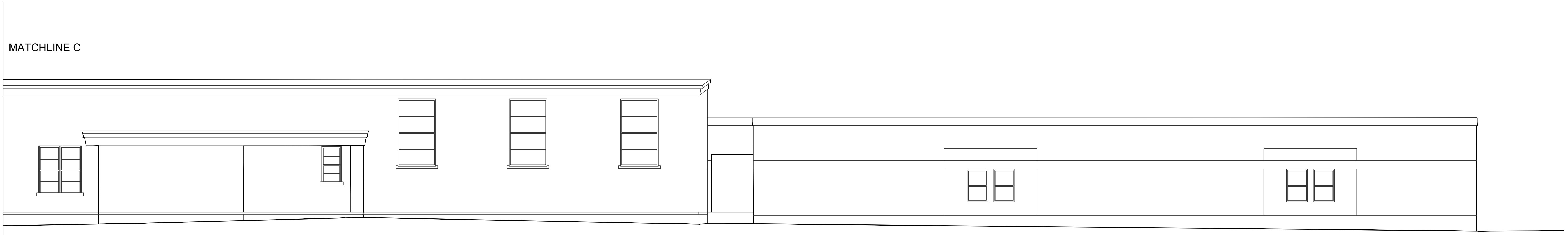
03 SOUTH EXTERIOR ELEVATION COURTYARD WEST END
SCALE: 1/8" = 1'-0"

NOTE:
CONTRACTOR TO FIELD VERIFY DETERIORATED SEALANT JOINT LOCATIONS.
CONTRACTOR TO REPLACE DETERIORATED SEALANT



RAMP HANDRAIL DETAIL
REFER TO AS101/02

02 WEST EXTERIOR ELEVATION NORTH END
SCALE: 1/8" = 1'-0"



01 WEST EXTERIOR ELEVATION SOUTH END
SCALE: 1/8" = 1'-0"

| HVAC LEGEND | |
|-------------|--|
| | SHEET METAL DUCTWORK AND TRANSITION, 1ST DIMENSION NOTED AS SIDE SHOWN. |
| | EXISTING DUCTWORK. |
| | HIDDEN DUCTWORK. |
| | BRANCH TAKEOFF FROM DUCT W/ VOLUME DAMPER AT EA TAKEOFF, EVEN IF VOLUME DAMPER IS NOT SHOWN. |
| | DUCTWORK: CEILING S/A DIFFUSERS, THROW IS FOUR-WAY UON. |
| | DUCTWORK ELBOW UP. |
| | DUCTWORK ELBOW DOWN. |
| | HVAC EQUIPMENT. |
| | WALL SUPPLY AIR REGISTER |
| | WALL RETURN AIR GRILLE |
| | CEILING SUPPLY AIR DIFFUSER. |
| | CEILING RETURN OR EXHAUST AIR DEVICE. |
| | SUPPLY OR OUTSIDE AIR DUCTWORK SECTION. |
| | RETURN AIR DUCTWORK SECTION. |
| | EXHAUST AIR DUCTWORK SECTION. |
| | FIRE DAMPER |
| | SMOKE DAMPER |
| | COMB. FIRE/SMOKE DAMPER |
| | MOTORIZED DAMPER. |
| | FLEXIBLE DUCTWORK. |
| | CO2 SENSOR |
| | CO SENSOR |
| | THERMOSTAT |
| | TEMPERATURE SENSOR |
| | HUMIDITY SENSOR |
| | DUCT MOUNTED UL LISTED SMOKE DETECTOR, FURNISHED BY DIV. 28, INSTALLED BY MECHANICAL CONTRACTOR. |
| | AIR DEVICE TYPE, CFM (-) IN PLACE OF CFM INDICATES RA OR EXH GRILLE W/NO BALANCING REQUIREMENTS) |
| | TOP ROW - AIR DEVICE TYPE, NECK SIZE (OPTIONAL) BOTTOM ROW - CFM, LEAKS & WTS. SEE SCHEDULE. |
| | POINT OF CONNECTION, NEW TO EXIST DUCT/PIPE. |

| ABBREVIATIONS | |
|---------------|---|
| AFB | ABOVE FINISHED FLOOR |
| AFD | ABOVE FINISHED GRADE |
| AMB | AMBIENT |
| AMP | AMPERES |
| ARCH | ARCHITECT |
| BOB | BOTTOM OF BRICK |
| BOF | BOTTOM OF FINISH FLOOR |
| BOP | BOTTOM OF PIPE |
| BPF | BELOW FINISHED FLOOR |
| BFP | BACK FLOW PREVENTER |
| BFV | BUTTERFLY VALVE |
| BTUH | BRITISH THERMAL UNITS / HR. |
| BV | BALL VALVE |
| BTWS | BTU/W |
| CD | CONDENSATE DRAIN LINE, EQUIP. DRAIN |
| CHW | CUBIC FEET PER MINUTE |
| CHWR/CHWS | CHILLED WATER RETURN / SUPPLY |
| CO | CLEANOUT |
| COORD | COORDINATE |
| CWR/CHWS | CONDENSER WATER RETURN / SUPPLY |
| DB | DEGBEL(S) |
| DDC | DRY BULB TEMPERATURE |
| DDC F | DIRECT DIGITAL CONTROL |
| DEG F | DEGREES FAHRENHEIT |
| DN | DOWN |
| DN | DOWN |
| EA | ENTERING AIR TEMPERATURE |
| EDB | ENTERING DRY BULB TEMPERATURE |
| EDR | ENERGY EFFICIENCY RATIO |
| EFF | EFFICIENCY |
| EL | ELEVATION |
| ELEC | ELECTRICAL |
| EWB | ENTERING WET BULB TEMPERATURE |
| EWI | ENTERING WATER TEMPERATURE |
| EXIST | EXISTING |
| EXH | EXHAUST |
| FBI | FURNISH AND INSTALL |
| FLEX | FLEXIBLE |
| FM | FEET PER MINUTE |
| FS | FEET PER SECOND |
| GC | GENERAL CONTRACTOR |
| GPM | GALLONS PER MINUTE |
| HP | HORSE POWER |
| HRS | HOUR |
| HSTAT | HUMIDISTAT |
| HVAC | HEATING, VENTILATION AND AIR CONDITIONING |
| HW | HEATING WATER |
| HWR | HEATING WATER RETURN |
| IAQ | INDOOR AIR QUALITY |
| IN | INCHES |
| IN | KITCHEN EQUIPMENT CONTRACTOR |
| KW | KILOWATT |
| KWH | KILOWATT HOUR |
| LBS | POUNDS |
| LDBT | LEAVING DRY BULB TEMPERATURE |
| LWB | LEAVING WET BULB TEMPERATURE |
| LWR | LEAVING WATER TEMPERATURE |
| LWT | LEAVING WATER TEMPERATURE |
| MAX | MAXIMUM |
| MCH | MECHANICAL |
| MVD | MOTORIZED VOLUME DAMPER |
| NA | NOT APPLICABLE |
| NC | NOT IN CONTRACT |
| NTS | NOT TO SCALE |
| OA | OUTSIDE AIR |
| PH | PHASE (ELECTRIC) |
| PSC | POINT OF CONNECTION |
| PSI | POUNDS PER SQUARE INCH |
| PVC | POLYVINYL CHLORIDE |
| RA | RETURN AIR |
| RH | RELATIVE HUMIDITY |
| REV | REVISION |
| RPZ | REDUCED PRESSURE ZONE BACKFLOW PREVENTER |
| SA | SUPPLY AIR |
| S | STEAM |
| SR | STEAM RETURN |
| TYP | TYPICAL |
| UG | UNDERGROUND |
| UF | UNDER FLOOR |
| UN | UNLESS OTHERWISE NOTED |
| V | VENT |
| VAC | VACUUM |
| VAV | VARIABLE AIR VOLUME |
| VD | VOLUME DAMPER (MANUAL) |
| W | WATT |
| W/ | WITH |
| W/O | WITHOUT |
| WCD | WATER CLEANOUT |
| X | EXISTING TO REMAIN |

(NOTE: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS)

MECHANICAL - GENERAL NOTES:

- ALL MECHANICAL INSTALLATIONS SHALL BE IN STRICT COMPLIANCE WITH THE 2021 INTERNATIONAL MECHANICAL CODE, INTERNATIONAL ENERGY CONSERVATION CODE 2021, AND ALL LOCAL GOVERNING AUTHORITIES HAVING JURISDICTION.
- ALL INSTALLATIONS SHALL COMPLY WITH THE INTERNATIONAL ENERGY CONSERVATION CODE 2021. EQUIPMENT EFFICIENCIES SHALL MEET MINIMUM REQUIREMENTS. DUCT INSULATION IN UNCONDITIONED SPACES SHALL HAVE A MINIMUM R5 VALUE. DUCT INSULATION OUTSIDE THE BUILDING INSULATION ENVELOPE SHALL HAVE MINIMUM R6 VALUE.
- THE MECHANICAL SYSTEM DESIGN CRITERIA ARE PER ASHRAE FUNDAMENTALS HANDBOOK - 2013, ASHRAE 55 - 2013, AND ASHRAE 62.1 - 2013 STANDARDS.
- CONTRACTOR SHALL FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AND ALL OTHER MECHANICAL SYSTEMS.
- REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT CEILING DIFFUSER LOCATIONS AND ELEVATIONS.
- ALL THERMOSTATS, SENSORS, CONTROLS, AND CONTROL WIRING (50 VOLTS OR LESS) SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- MOTOR DISCONNECTS AND STARTERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. COORDINATE WITH ELECTRICAL.
- CONDENSATE DRAIN PIPING SHALL BE COPPER AND SHALL BE SLOPED 1/8 INCH PER FOOT MINIMUM AND BE INSTALLED BY MECHANICAL CONTRACTOR. INTERIOR CONDENSATE PIPING SHALL BE INSULATED.
- VENTILATION FLUES FOR ALL COMBUSTION EQUIPMENT BY CONTRACTOR.
- PROVIDE FIRE/SMOKE DAMPERS AS REQUIRED PER APPLICABLE CODES AT RATED FLOORS, CEILINGS, WALLS, AND CHASES.
- ALL DUCTWORK DIMENSIONS ARE CLEAR, INSIDE DIMENSIONS. DUCTWORK SHALL BE GALVANIZED STEEL AND SHALL MEET MINIMUM S.M.A.C.N.A. CONSTRUCTION STANDARDS.
- FLEXIBLE DUCT SHALL NOT EXCEED "0-".
- MAINTAIN ALL DUCTWORK CLEARANCES REQUIRED BY THE NATIONAL ELECTRIC CODE ABOVE ALL ELECTRICAL PANELS. COORDINATE WITH CONTRACTOR.
- DUCTWORK LAYOUT ON DRAWINGS IS SCHEMATIC IN NATURE. FIELD VERIFY ALL STRUCTURAL SUPPORTS AND BEAMS AND AVOID DUCTWORK CONFLICTS.
- OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ALL EXHAUST SOURCES.
- SMOKE DETECTORS SHALL BE INSTALLED IN THE SUPPLY AND RETURN DUCTS OF ALL UNITS GREATER THAN 2,000 CFM. DUCT MOUNTED UL LISTED SMOKE DETECTOR, FURNISHED BY DIV. 28, INSTALLED BY MECHANICAL CONTRACTOR.
- CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND SYSTEMS PER MANUFACTURER'S INSTRUCTIONS. MAINTAIN REQUIRED ACCESS PER MECHANICAL CODE AND MANUFACTURER'S SERVICE RECOMMENDATIONS.
- CONTRACTOR SHALL PROVIDE GUARDS FOR ANY EQUIPMENT LOCATED WITHIN 10 FEET OF A ROOF EDGE OR OPEN WALKING SURFACE PER THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE.
- MECHANICAL LAYOUT IS DIAGRAMMATIC IN NATURE AND DOES NOT REPRESENT A SET OF SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING A COMPLETE, FUNCTIONING MECHANICAL SYSTEM COORDINATED WITH ARCHITECTURAL AND STRUCTURAL FIELD CONDITIONS.
- HVAC UNITS SHALL NOT BE RUN WITHOUT FILTERS.
- CONTRACTOR SHALL INSTALL A NEW SET OF FILTERS ON ALL HVAC UNITS A WEEK PRIOR TO SUBSTANTIAL COMPLETION AND ANOTHER NEW SET OF FILTERS ONE WEEK PRIOR TO THE SIX MONTH WARRANTY WALK-THRU.

| ROOFTOP UNIT SCHEDULE | | | | | | | |
|-----------------------|---------------------------------|--------------------------|------------|------------|------------|------------|-------------|
| GENERAL | DESIGNATION | RTU-A1 | RTU-2 | RTU-6 | RTU-A2 | RTU-CA1 | RTU-C1 & C2 |
| | | RECOMMENDED MANUFACTURER | AAON | AAON | AAON | AAON | AAON |
| | MODEL NO. | RQ-003 | RN-007 | RQ-004 | RQ-005 | RNA-013 | RN-008 |
| | NOMINAL TONS | 3 | 6 | 4 | 5 | 12.5 | 7.5 |
| | TOTAL DESIGN CFM | 1,200 | 2,400 | 1,600 | 2,000 | 5,000 | 3,000 |
| | EER/SEER | 18.2 SEER | 12.2 EER | 17.1 SEER | 16.75 SEER | 11.56 EER | 11.4 EER |
| | APPROXIMATE DIMENSIONS (INCHES) | 90X45X51 | 90X79X44 | 90X45X51 | 90X45X51 | 110X96X51 | 90X79X44 |
| | APPROXIMATE WEIGHT (LBS.) | 900 | 1,150 | 1,000 | 1,000 | 1,900 | 1,250 |
| COOLING COIL | EAT-DB/W.B. DEG. F. | 80/67 | 80/67 | 80/67 | 80/67 | 80/67 | 80/67 |
| | MAX. AMBIENT TEMP., DEG. F. | 105 | 105 | 105 | 105 | 105 | 105 |
| HEATING | TOTAL COOLING BTUH | 34,800 | 75,000 | 49,500 | 57,900 | 153,800 | 91,200 |
| | SENSIBLE COOLING BTUH | 31,750 | 57,000 | 38,700 | 46,500 | 141,400 | 69,400 |
| EVAP. FAN | MIN. COIL FACE AREA, SQ. FT. | 5.3 | 8.5 | 5.3 | 5.3 | 14.6 | 8.5 |
| | MIN. ROWS/MAX. FPI | 3/14 | 3/14 | 4/14 | 4/14 | 4/14 | 3/14 |
| ELECTRICAL | EAT/LAT. DEG. F. | 65/90 | 65/90 | N/A | 65/90 | 61/90 | 60/97 |
| | MIN. AMBIENT TEMP., DEG. F. | 17 | 17 | N/A | 17 | 17 | 17 |
| | GAS INPUT (BTU/HR) | 60,000 | 90,000 | N/A | 100,000 | 195,000 | 150,000 |
| | HEAT OUTPUT (BTU/HR) | 48,600 | 72,900 | N/A | 81,000 | 156,000 | 120,000 |
| | AFUE % | 81 | 81 | N/A | 80 | 80 | 80 |
| | EXT. S.P., IN W.G. | 1.6 | 1.6 | 1.6 | 2.4 | 1.4 | 2.4 |
| | DRIVE TYPE | DIRECT | DIRECT | DIRECT | DIRECT | DIRECT | DIRECT |
| | FAN MOTOR HP | 1 | 2 | 2 | 2 | 5 | 3 |
| | VOLTS/PHASE | 460/3 | 460/3 | 460/3 | 460/3 | 460/3 | 460/3 |
| | NO. OF COMPRESSORS | 1 | 1 | 1 | 1 | 2 | 1 |
| | COMPRESSOR RLA | 5.7 | 9.9 | 6.4 | 7.6 | 9.5 EACH | 12 |
| | NO. OF COND. FANS | 1 | 1 | 1 | 1 | 2 | 2 |
| | COND. FAN FLA | 1.6 | 1.6 | 1.6 | 1.6 | 3.6 EACH | 1.6 |
| | EVAP. FAN FLA | 3.5 | 3.4 | 3.4 | 3.4 | 7.6 | 4.8 |
| | MCA | 12 | 17 | 13 | 15 | 36 | 23 |
| | MOP | 15 | 25 | 15 | 20 | 45 | 25 |
| | REMARKS | NOTES 1-10 | NOTES 1-10 | NOTES 1-10 | NOTES 1-10 | NOTES 1-10 | NOTES 1-10 |

- NOTES:**
- FURNISH W/ 5 YEAR COMPRESSOR WARRANTY.
 - FURNISH W/ CONTROLLER AND NEW SENSOR COMPATIBLE WITH THE EXISTING BMS.
 - FURNISH W/ MOTORIZED OUTSIDE AIR DAMPERS.
 - FURNISH W/ 10 YEAR HEAT EXCHANGER WARRANTY.
 - FURNISH W/ HAIL GUARDS ON CONDENSER COIL.
 - FURNISH UNIT SCHEDULED OR EQUAL BY A.A.O.N.
 - FURNISH W/ DOWNFLOW ROOF CURBS, MIN. 14 IN. HIGH, MEETING NRCA REQUIREMENTS.
 - FURNISH W/ DRYBULB/55 DEG. F. (ADJUSTABLE) CONTROLLED ECONOMIZER WITH BAROMETRIC RELIEF DAMPER. FURNISH W/ ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD) MEETING THE 2021 IMCC.
 - FURNISH W/ HOT GAS REHEAT.
 - FURNISH WITH DUCT SMOKE DETECTOR IN THE SUPPLY AND RETURN END OF THE UNIT. DUCT SMOKE DETECTOR SHALL BE POWERED FROM THE FIRE ALARM SYSTEM AND NOT THE UNIT.

| AIR PURIFICATION SCHEDULE | | | | | |
|---------------------------|---------------------------|----------------------|------------------------|-------------|----------------------------------|
| MARK | SUPPLY AIR FLOW RANGE CFM | OUTSIDE AIR FLOW CFM | PRESSURE DROP IN. W.C. | VOLTAGE VAC | REMARKS |
| AP-A | 0-6,000 | 805 | 0.05 | 24 | BIOCLIMATIC ACTIVEBOX #A0XR05-24 |

- NOTES:**
- FURNISH WITH CONTROL BOX #A0XBMS AND INSTALL PER MANUFACTURER RECOMMENDATIONS.
 - MOUNT BI-POLAR ION GENERATOR PER MANUFACTURER RECOMMENDATIONS AND WHERE INDICATED ON PLANS.
 - IF CONTRACTOR SUBSTITUTES BASIS OF DESIGN WITH OTHER MANUFACTURER, THEN CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND MECHANICAL CHANGES.
 - BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE UNACCEPTABLE AND SHALL BE REJECTED.
 - ALL MANUFACTURERS MUST PASS UL-867-2007 OZONE CHAMBER TESTING BUY EITHER UL OR ETL.
 - FURNISH WITH BAS ALARM CONTACTS.

| AIR SEPARATOR SCHEDULE | | | | | | |
|------------------------|------------|----------------|----------------------------------|----------------------|------------------------|---------------------------|
| MARK | LOCATION | TYPE | STRAINER SCREEN FREE AREA SQ. IN | SHIPPING WEIGHT LBS. | MAX WORKING PRESS. PSI | REMARKS |
| AS-1 | MECH. ROOM | ASME CLASS 150 | 491 | 1050 | 175 | AMTROL 10-A5, NOTES 1 & 2 |

- NOTES:**
- FURNISH AND INST. ALL AIR SEPARATOR PER MANUFACTURER RECOMMENDATIONS.
 - FURNISH WITH STAINLESS STEEL STRAINER.

| EXPANSION TANK SCHEDULE | | | | | | |
|-------------------------|------------|---------|------------------|---------------------|------------------------|----------------------|
| MARK | LOCATION | TYPE | TANK VOLUME GAL. | FLOODED WEIGHT LBS. | MAX WORKING PRESS. PSI | REMARKS |
| ET-1 | MECH. ROOM | BLADDER | 32.0 | - | 150 | ELB HTL-1200, NOTE 1 |

- NOTES:**
- FURNISH AND INSTALL TANK IN VERTICAL POSITION ONLY PER MANUFACTURER RECOMMENDATIONS.

| AIR HANDLING UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|------------|-------------|--------------|------------|-------------|-----------|----------|-----------|-------------|---------------|------------|-----------|---------|---------------|------------------------------|-----------|-------------|-------------------|----------|-----------|------------------------------|------------|-------------------|-----------|---------|---|------|-------|----|---------|-----|-------|---|-------|--|
| MARK | SERVING | WEIGHT LBS. | SUPPLY FAN | | | | | | | | RETURN FAN | | | | COOLING COIL (CHILLED WATER) | | | | | | HEATING COIL (HEATING WATER) | | | | REMARKS | | | | | | | | | | |
| | | | TOT. AIR CFM | OA AIR CFM | TSP IN. H2O | # OF FANS | MOTOR HP | RA CFM | TSP IN. H2O | # OF MOTOR HP | COIL CFM | EDB °F | EWB °F | SENSIBLE BTUH | TOTAL BTUH | CHW °F | MIN. # ROWS | MIN. FACE AREA SF | COIL CFM | EAT °F | HTW °F | MIN # ROWS | MIN. FACE AREA SF | | | | | | | | | | | | |
| | | | FLA | MCA | FUSE SIZE | FLA | MCA | FUSE SIZE | VOLT/PH | FLA | MCA | FUSE SIZE | VOLT/PH | FLA | MCA | FUSE SIZE | VOLT/PH | FLA | MCA | FUSE SIZE | VOLT/PH | FLA | MCA | FUSE SIZE | | | | | | | | | | | |
| AHJ-5 | CLASSROOMS | 3,940 | 6,000 | 600 | 4.6 | 1 | 7.5 | 6,000 | 1.9 | 1 | 8 | 8.13 | 10.16 | 15 | 11 | 15.75 | 20 | 460/3 | 6,000 | 80 | 67 | 165,350 | 227,570 | 42 | 30/24 | 6 | 12.5 | 6,000 | 45 | 179,650 | 180 | 179.4 | 1 | 11.25 | TRANE CSA A012 PERFORMANCE CLIMATE CHANGER, NOTES 1-11 |

- NOTES:**
- UNIT LISTED INDICATES BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS.
 - FURNISH W/ 14" MINIMUM HEIGHT ROOF CURB.
 - FURNISH W/ FACTORY DISCONNECT SWITCH.
 - FURNISH W/ 2 INCH / 4" FILTER RACK WITH MERV8 / MERV 11 FILTERS OR EQUIVALENT.
 - FURNISH W/ DOUBLE WALL CONSTRUCTION.
 - FURNISH W/ FREEZE PROTECTION FOR WATER PIPING AND COILS.
 - FURNISH FANS WITH SPRING ISOLATORS.
 - ALL UNITS SHALL BE FURNISHED WITH A 120-V CONVENIENCE OUTLET WIRED SEPARATE FROM THE UNIT.
 - EACH FAN MOTOR SHALL BE FURNISHED WITH A VFD.
 - FURNISH UNIT WITH STAINLESS STEEL COIL CASINGS.
 - REFER TO SPECIFICATIONS FOR MORE INFORMATION.

| DIFFUSER & GRILLE SCHEDULE | | | | | | | | | |
|----------------------------|-----------|---|---|---|-------------------|-----------------|---------|-------------------------|--|
| MARK | CFM RANGE | S | R | E | TYPE | DUCT CONN. SIZE | PATTERN | REMARKS | |
| A | 0-150 | X | | | LAY-IN OR SURFACE | 6 | NOTE 2 | TITUS TMS, 24X24 MODULE | |
| B | 151-250 | X | | | LAY-IN OR SURFACE | 8 | NOTE 2 | TITUS TMS, 24X24 MODULE | |
| C | 251-400 | X | | | LAY-IN OR SURFACE | 10 | NOTE 2 | TITUS TMS, 24X24 MODULE | |
| D | 401-600 | X | | | LAY-IN OR SURFACE | 12 | NOTE 2 | TITUS TMS, 24X24 MODULE | |
| F | 601-800 | X | | | LAY-IN OR SURFACE | 14 | NOTE 2 | TITUS TMS, 24X24 MODULE | |
| G | 801-1050 | X | | | LAY-IN OR SURFACE | 15 | NOTE 2 | TITUS TMS, 24X24 MODULE | |
| H | 0-150 | X | | | LAY-IN OR SURFACE | 6 | NOTE 2 | TITUS TMS, 12X12 MODULE | |
| L | 0-1175 | X | | | SIDEWALL | 18X12 | 2-WAY | TITUS 27IES W/OBD | |
| M | 1176-1500 | X | | | SIDEWALL | 24X12 | 2-WAY | TITUS 27IES W/OBD | |
| N | 1501-2100 | X | | | SIDEWALL | 34X12 | 2-WAY | TITUS 27IES W/OBD | |
| Q | 0-1200 | | X | X | SIDEWALL | 24X12 | N.A. | TITUS 350FL W/OBD | |
| R | 0-1480 | | X | X | SIDEWALL | 30X12 | N.A. | TITUS 350FL W/OBD | |
| S | 0-1750 | | X | X | SIDEWALL | 36X12 | N.A. | TITUS 350FL W/OBD | |
| T | 0-2000 | | X | X | SIDEWALL | 24X24 | N.A. | TITUS 350FL W/OBD | |
| U | 0-2025 | | X | X | SIDEWALL | 36X14 | N.A. | TITUS 350FL W/OBD | |
| V | 0-3010 | | X | X | SIDEWALL | 48X16 | N.A. | TITUS 350FL W/OBD | |
| X | 0-450 | | X | X | SURFACE | 10X10 | N.A. | TITUS 350FL W/OBD | |
| Y | 451-1000 | | X | X | SURFACE | 16X16 | N.A. | TITUS 350FL W/OBD | |
| Z | 0-400 | | X | | DOOR | 24X12 | N.A. | TITUS 1700 | |

- NOTES:**
- ALL AIR FLOWS ARE LISTED IN CFM; ALL SIZES IN INCHES.
 - PATTERN IS FOUR-WAY UON ON PLANS.
 - FURNISH WITH A FRAME COMPATIBLE WITH THE CEILING OR WALL IN WHICH THE DEVICE IS MOUNTED. (APPLIES TO ALL MAKE ROUNDOFF AND FLEX OR HARD DUCT CONNECTION TO AIR DEVICE SAME SIZE AS SCHEDULED DUCT CONNECTION SIZE)
 - MAKE ROUNDOFF AND FLEX OR HARD DUCT CONNECTION TO AIR DEVICE SAME SIZE AS SCHEDULED DUCT CONNECTION SIZE FOR SLOT DIFFUSERS FURNISH AND INSTALL MANUFACTURER'S PLENUM EQUAL TO TITUS FBP. FURNISH AND INSTALL "MID-RY" TYPE 35 BORDER FOR HARD CEILING AND TYPE 11 FOR ACUSTICAL CEILING.
 - EQUIVALENT MODELS BY KRUEGER, METALABE, OR PRICE MAY BE ACCEPTABLE PENDING SUBMITTAL REVIEW.

| SINGLE DUCT VAV TERMINAL UNIT SCHEDULE | | | | | | | | | |
|--|----------------------------|----------------|--------------------|----------------------|--------------|------|------------------------|--------------------------|--|
| MARK | TYPE | INLET SIZE IN. | PRIMARY AIR DATA | | HEATING COIL | | REMARKS | | |
| | | | CFM RANGE MIN. MAX | MAX. A.D.P. IN. W.G. | MAX. N.C. | GPM | HEATING CAPACITY MBTUH | | |
| VAV-A | SINGLE DUCT HOT WATER HEAT | 8 | 400-900 | 30 | 30 | 1.71 | 19.22 | ENVIRO-TEC SDR NOTES 1-7 | |
| VAV-B | SINGLE DUCT HOT WATER HEAT | 10 | 400-1050 | 30 | 30 | 1.24 | 17.03 | ENVIRO-TEC SDR NOTES 1-7 | |
| VAV-C | SINGLE DUCT HOT WATER HEAT | 10 | 400-1400 | 30 | 30 | 0.71 | 15.94 | ENVIRO-TEC SDR NOTES 1-7 | |
| VAV-D | SINGLE DUCT HOT WATER HEAT | 12 | 400-1900 | 30 | 30 | 1.21 | 19.11 | ENVIRO-TEC SDR NOTES 1-7 | |
| VAV-E | SINGLE DUCT HOT WATER HEAT | 12 | 400-2000 | 30 | 30 | 1.21 | 19.11 | ENVIRO-TEC SDR NOTES 1-7 | |
| VAV-G | SINGLE DUCT HOT WATER HEAT | 14 | 400-3000 | 30 | 30 | 1.08 | 20.64 | ENVIRO-TEC SDR NOTES 1-7 | |

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OWNER'S REPRESENTATIVE:
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 9400 NORTH CENTRAL EXPRESSWAY SUITE 800
 Dallas, Texas 75231

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KEY PLAN

JMA Project Number:

Date: 08/09/2024

Scale:

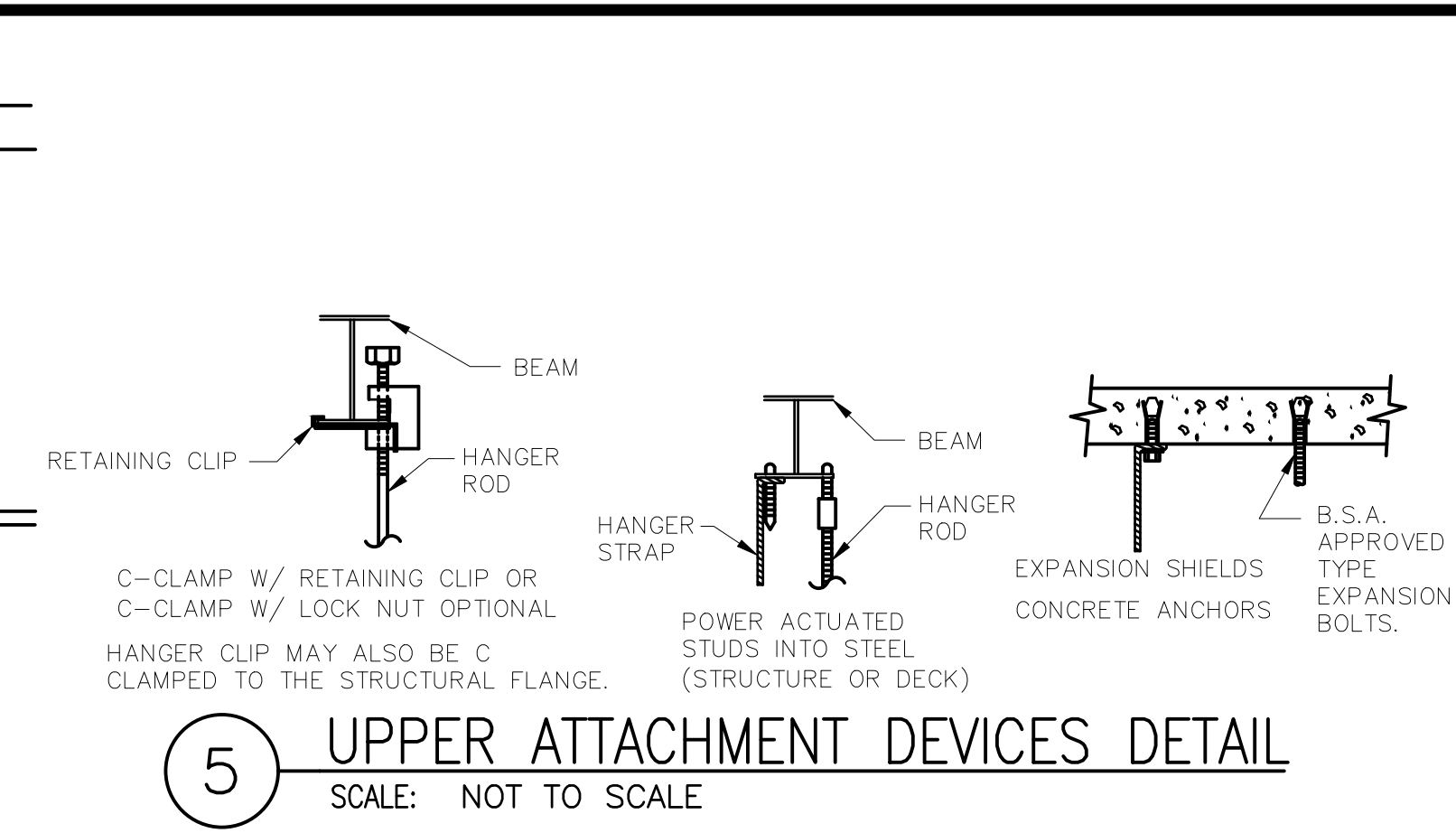
Sheet Title
**DETAILS & SCHEDULES
 MECHANICAL**

Sheet Number

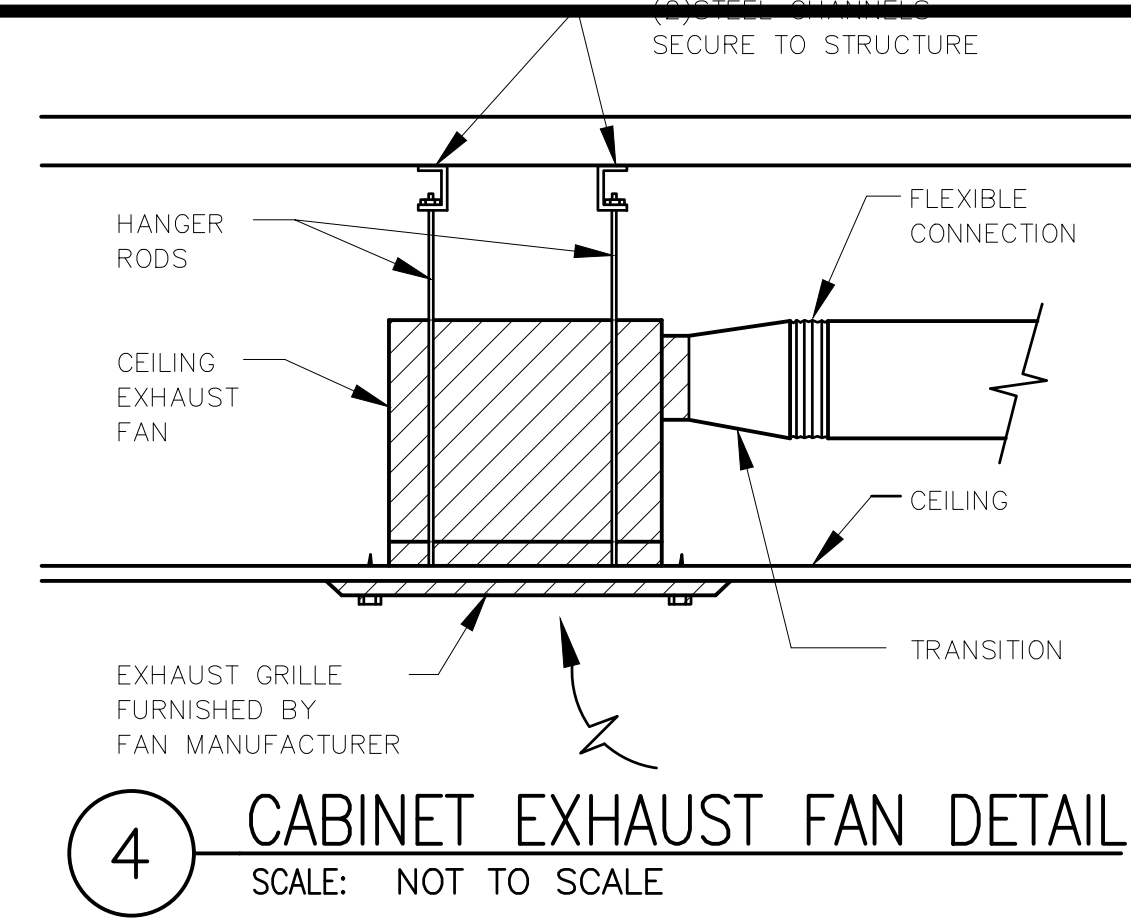
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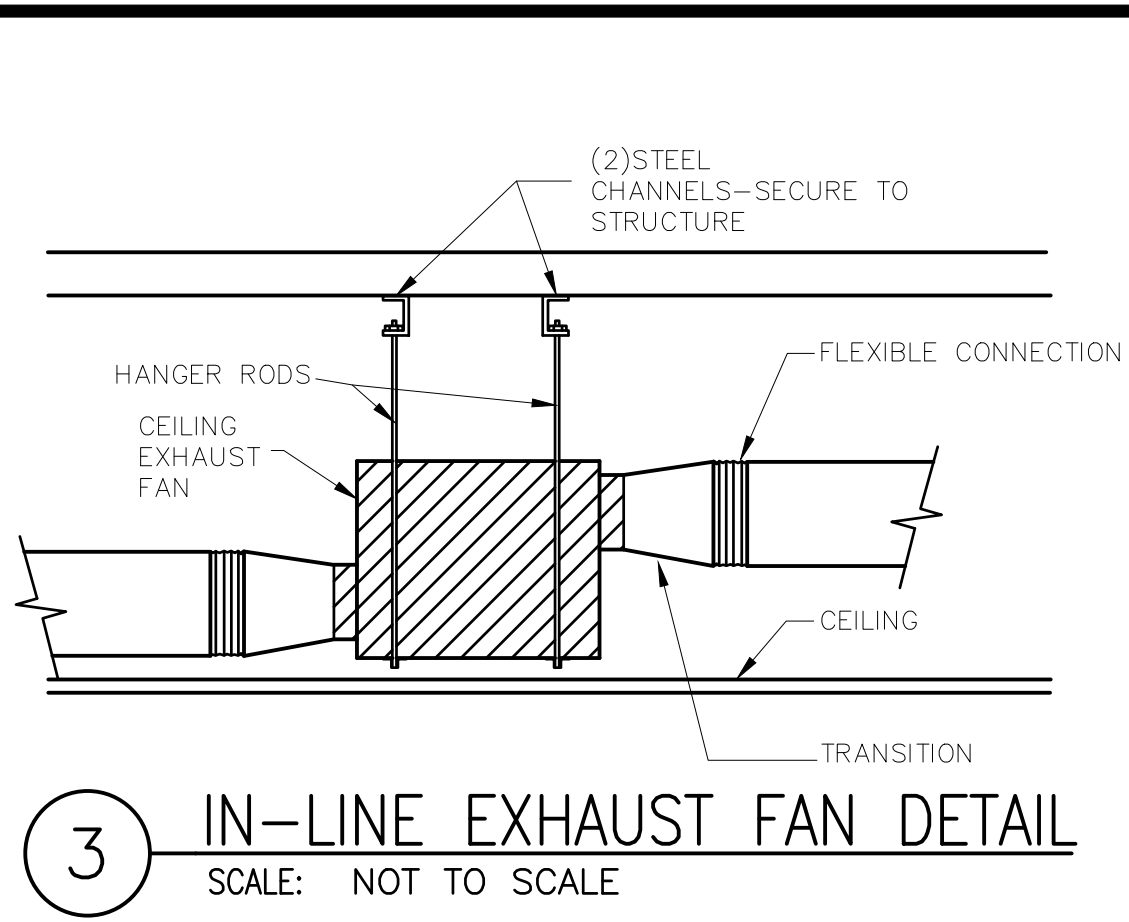
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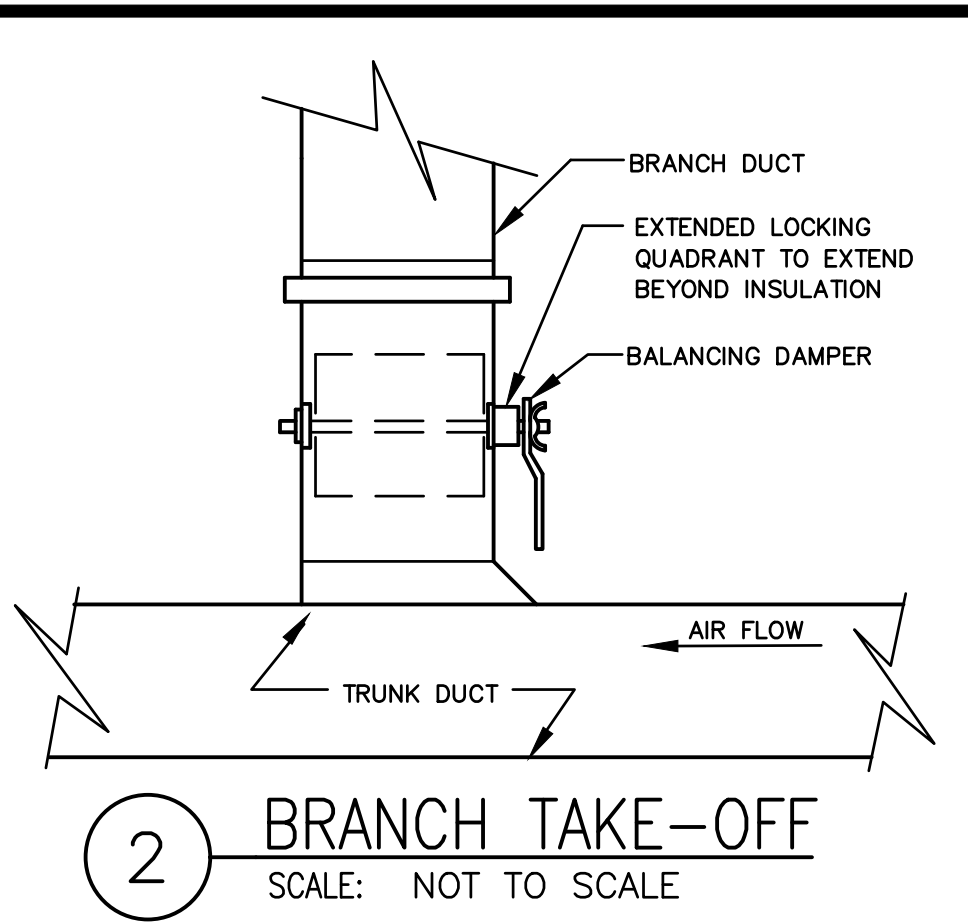
5 UPPER ATTACHMENT DEVICES DETAIL
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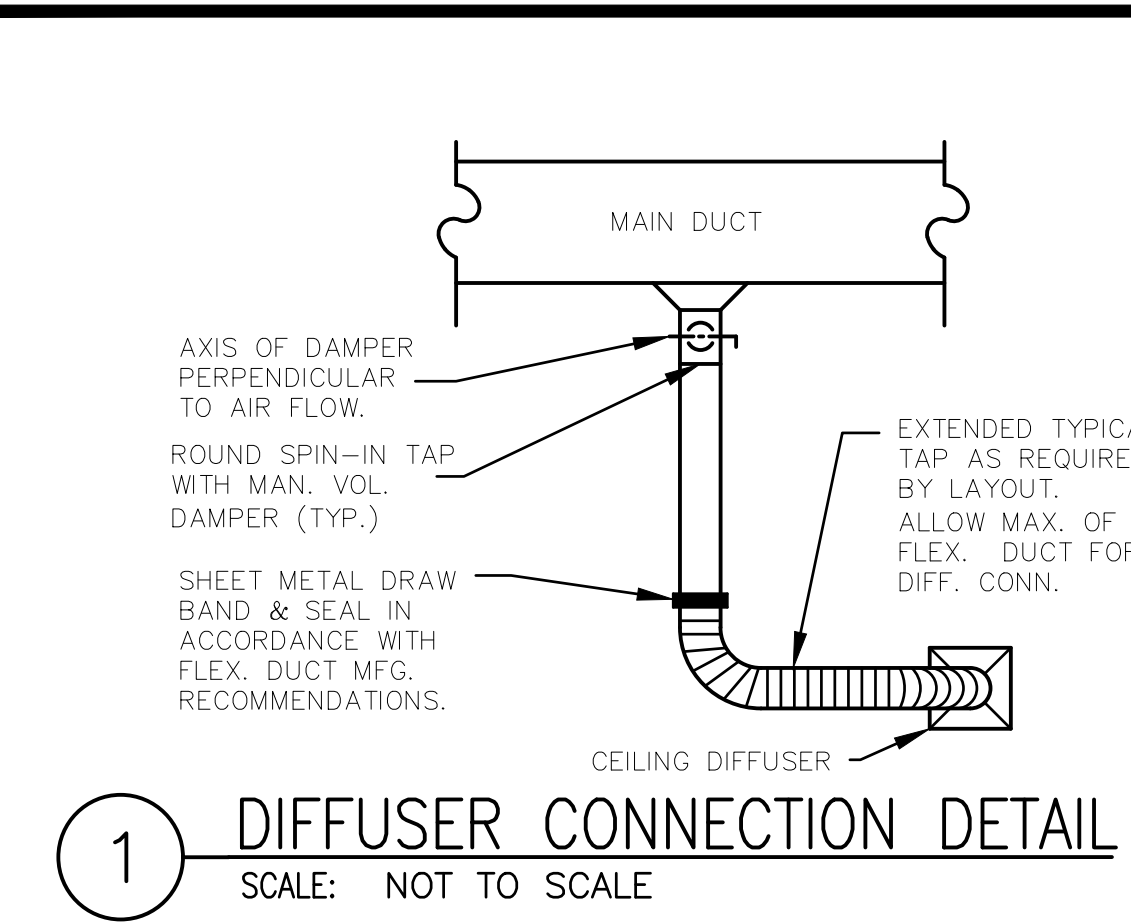
4 CABINET EXHAUST FAN DETAIL
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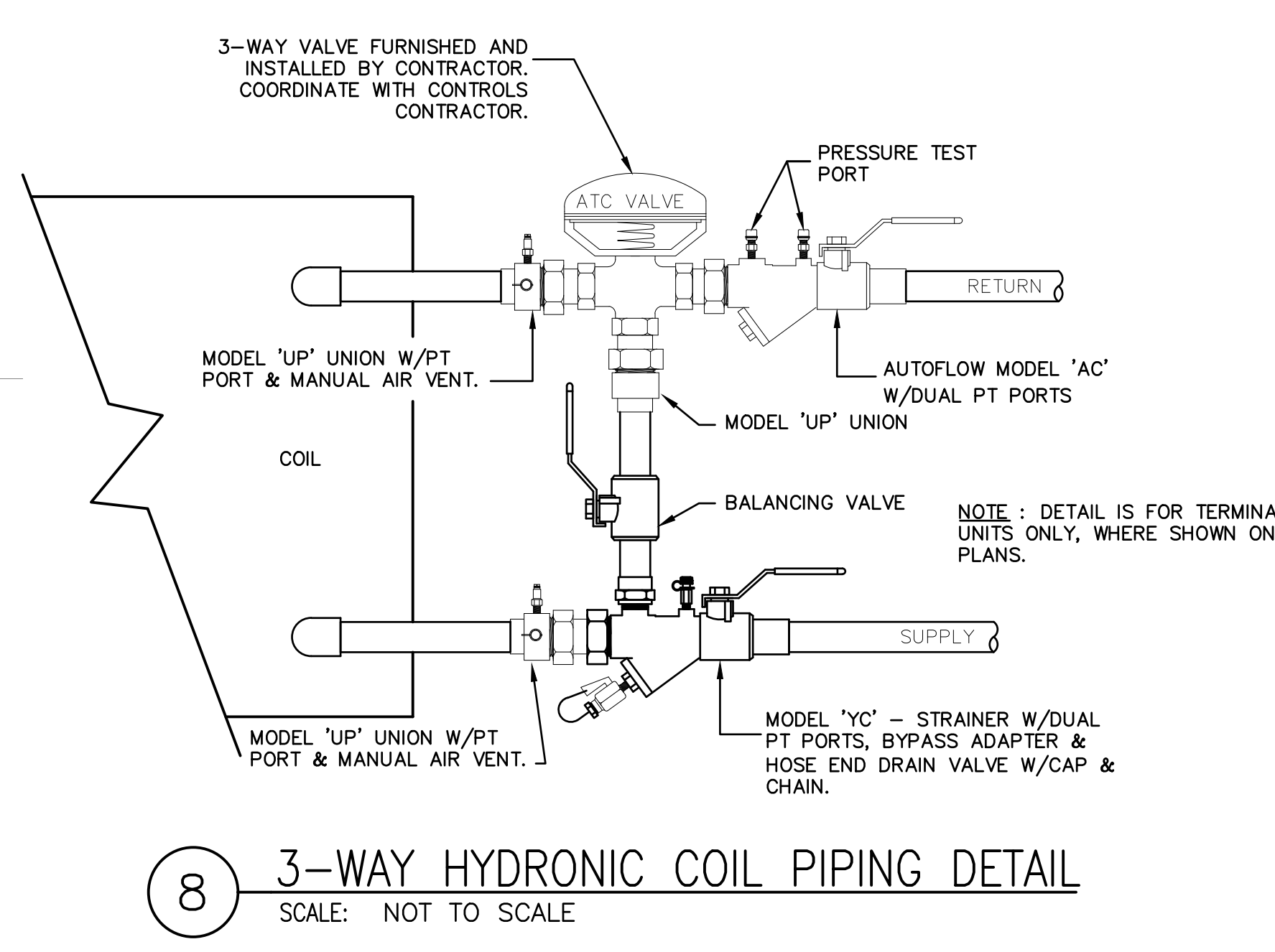
3 IN-LINE EXHAUST FAN DETAIL
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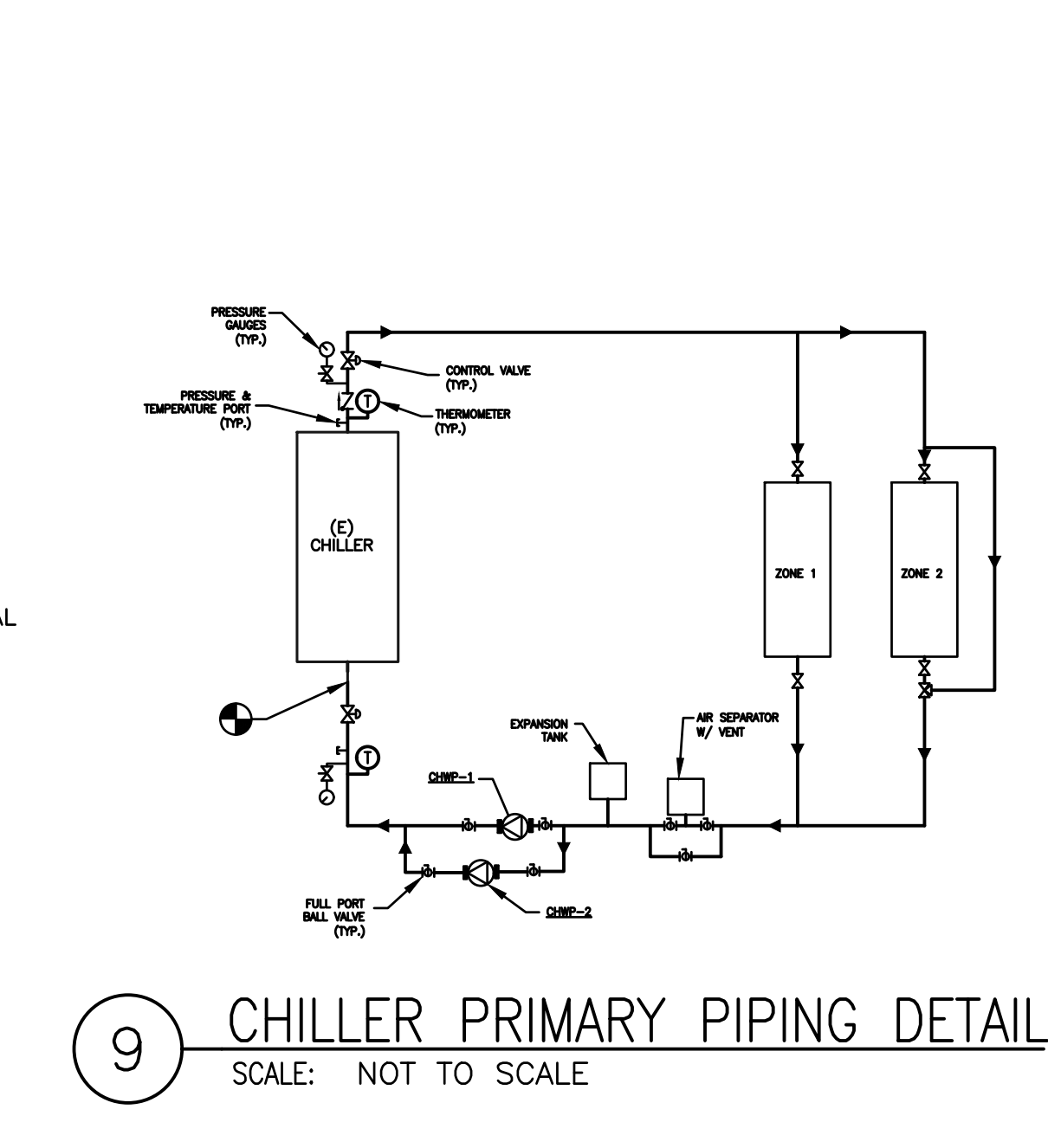
2 BRANCH TAKE-OFF
 SCALE: NOT TO SCALE



1 DIFFUSER CONNECTION DETAIL
 SCALE: NOT TO SCALE



8 3-WAY HYDRONIC COIL PIPING DETAIL
 SCALE: NOT TO SCALE

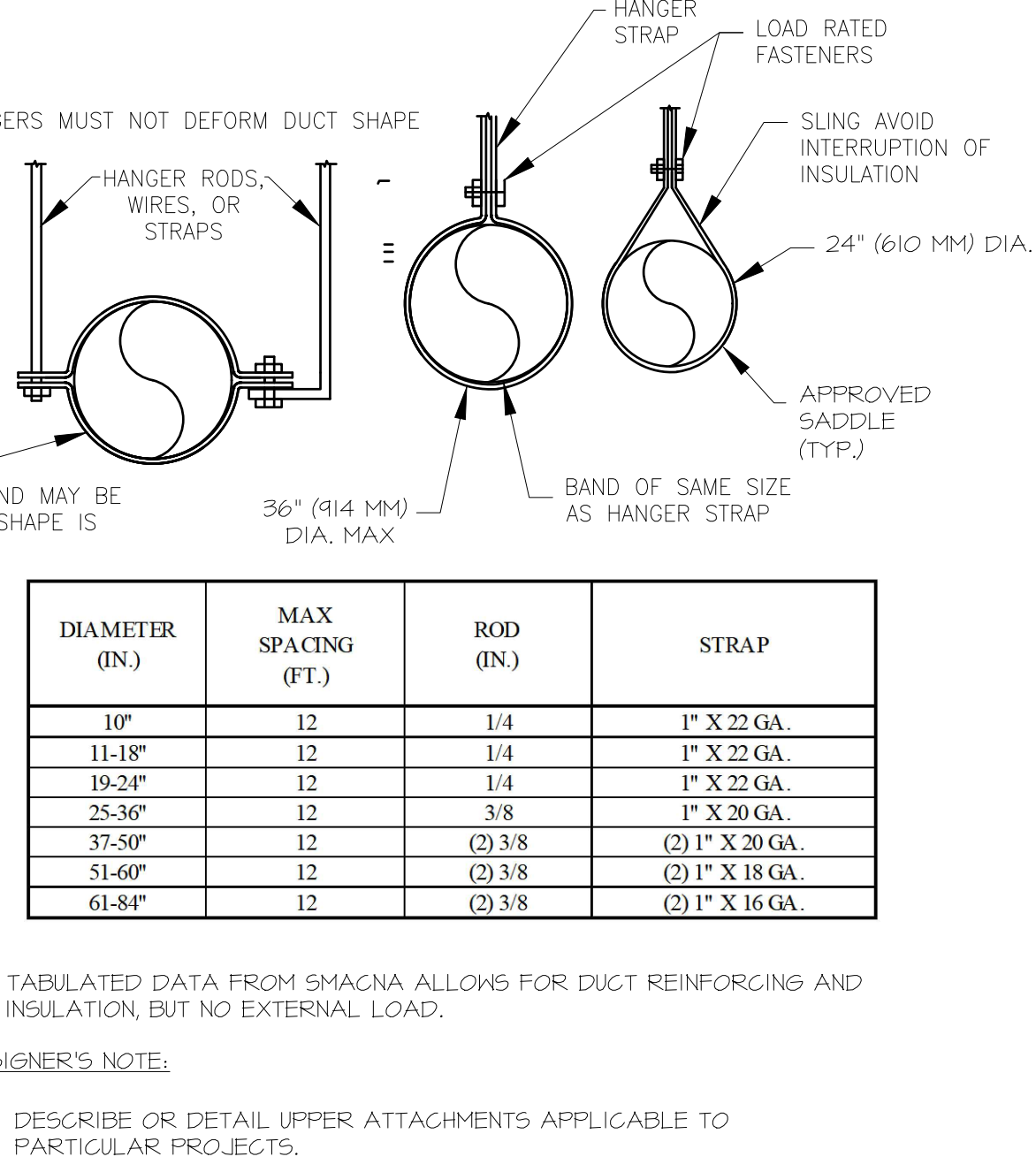


9 CHILLER PRIMARY PIPING DETAIL
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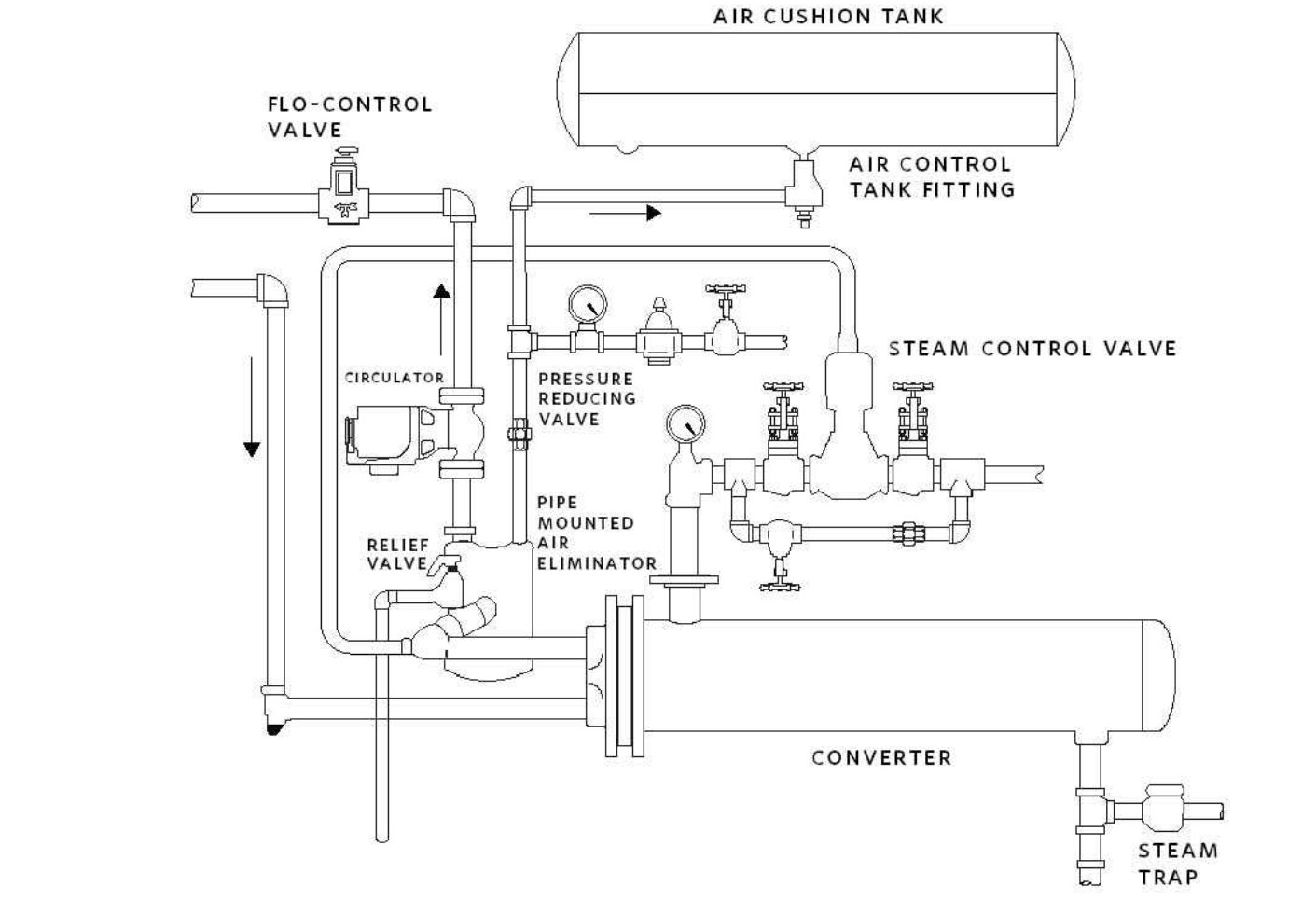
MAXIMUM HALF OF DUCT PERIMETER

| PAIR AT 10 FT SPACING | PAIR AT 8 FT SPACING | | PAIR AT 5 FT SPACING | | PAIR AT 14 FT SPACING | |
|---|---|----------------------------|---------------------------|---------------------------|-----------------------|------------------|
| | STRAP | ROD | STRAP | ROD | STRAP | ROD |
| P-2 - 30" | 1" X 22GA. | 10GA. (135") | 1" X 22GA. | 10GA. (135") | 1" X 22GA. | 12GA. (106") |
| P-2 - 72" | 1" X 18GA. | 3/8" | 1" X 20GA. | 1/4" | 1" X 22GA. | 1/4" |
| P-2 - 96" | 1" X 16GA. | 3/8" | 1" X 18GA. | 3/8" | 1" X 20GA. | 3/8" |
| P-2 - 120" | 1 1/2" X 16GA. | 1/2" | 1" X 16GA. | 3/8" | 1" X 18GA. | 3/8" |
| P-2 - 168" | 1 1/2" X 16GA. | 1/2" | 1 1/2" X 16GA. | 1/2" | 1" X 16GA. | 3/8" |
| P-2 - 192" | NOT GIVEN | 1/2" | 1 1/2" X 16GA. | 1/2" | 1" X 16GA. | 3/8" |
| P-2 - 192" UP | WHEN STRAPS ARE LAP JOINED USE THESE MINIMUM FASTENERS: | | SPECIAL ANALYSIS REQUIRED | | | |
| 1" X 18, 20, 22GA. - TWO #10 OR ONE 1/4" BOLT | | 1" X 16GA. - TWO 1/4" DIA. | | 1" X 22GA. - 260LBS. | | ROD (DIA.) |
| 1 1/2" X 16GA. - TWO 3/8" DIA. | | 1 1/2" X 16GA. - 1100LBS. | | 1" X 20GA. - 330LBS. | | 0.106" - 80LBS. |
| PLACE FASTENERS IN SERIES, NOT SIDE BY SIDE | | 1" X 16GA. - 420LBS. | | 1" X 16GA. - 700LBS. | | 0.135" - 120LBS. |
| | | 1 1/2" X 16GA. - 1100LBS. | | 1 1/2" X 16GA. - 700LBS. | | 0.162" - 160LBS. |
| | | | | 1 1/2" X 16GA. - 1100LBS. | | 1/4" - 270LBS. |
| | | | | | | 3/8" - 680LBS. |
| | | | | | | 1/2" - 1250LBS. |
| | | | | | | 5/8" - 2000LBS. |
| | | | | | | 3/4" - 3000LBS. |

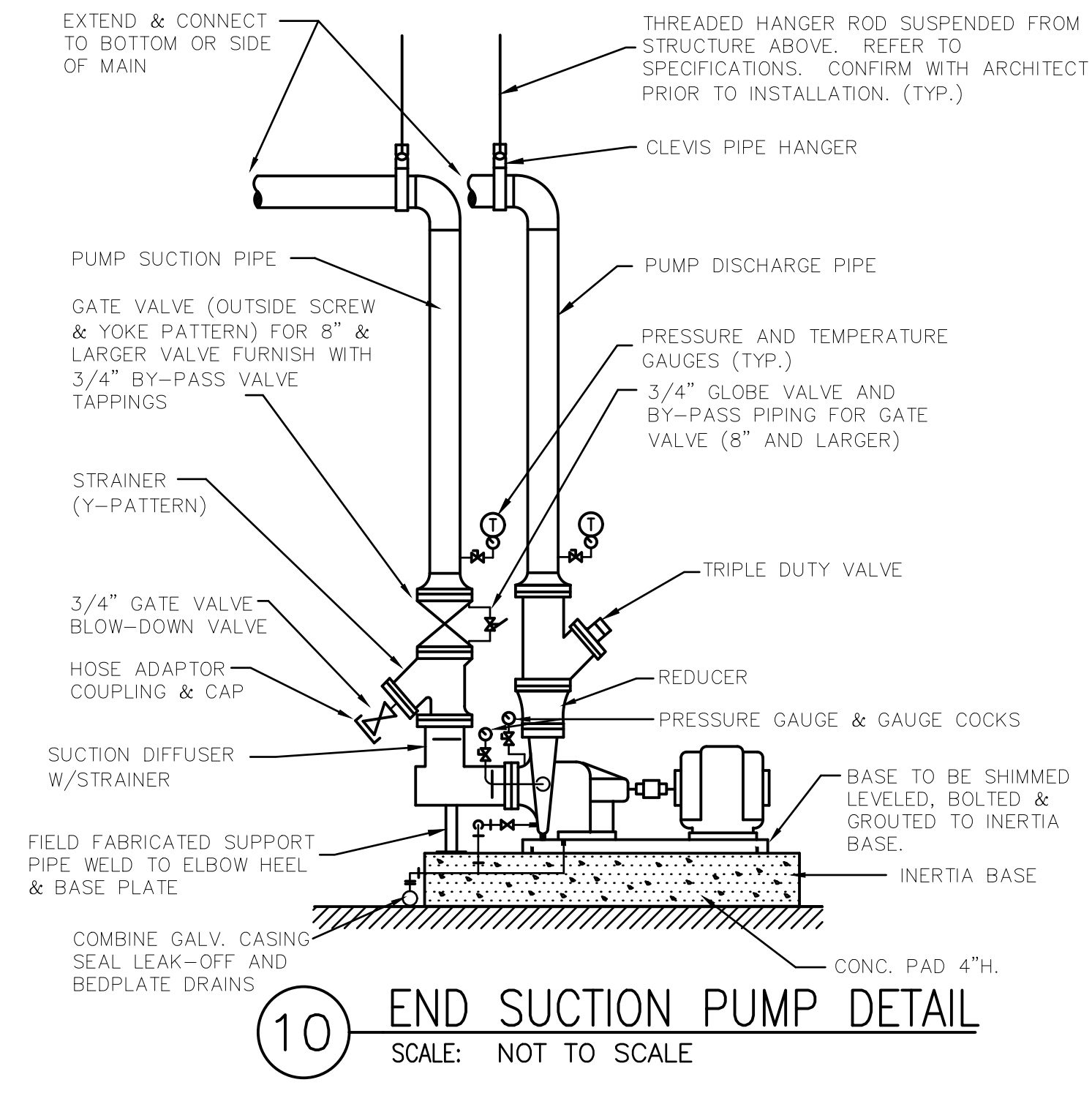
7 RECTANGULAR DUCT HANGER DETAIL
 SCALE: NOT TO SCALE



6 ROUND DUCT HANGER DETAIL
 SCALE: NOT TO SCALE



11 SHELL & TUBE HEAT EXCHANGER DETAIL
 SCALE: NOT TO SCALE



10 END SUCTION PUMP DETAIL
 SCALE: NOT TO SCALE

DESIGNER'S NOTE:
 1. DESCRIBE OR DETAIL UPPER ATTACHMENTS APPLICABLE TO PARTICULAR PROJECTS.

DESIGNER'S NOTE:
 1. TABULATED DATA FROM SHACMA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.



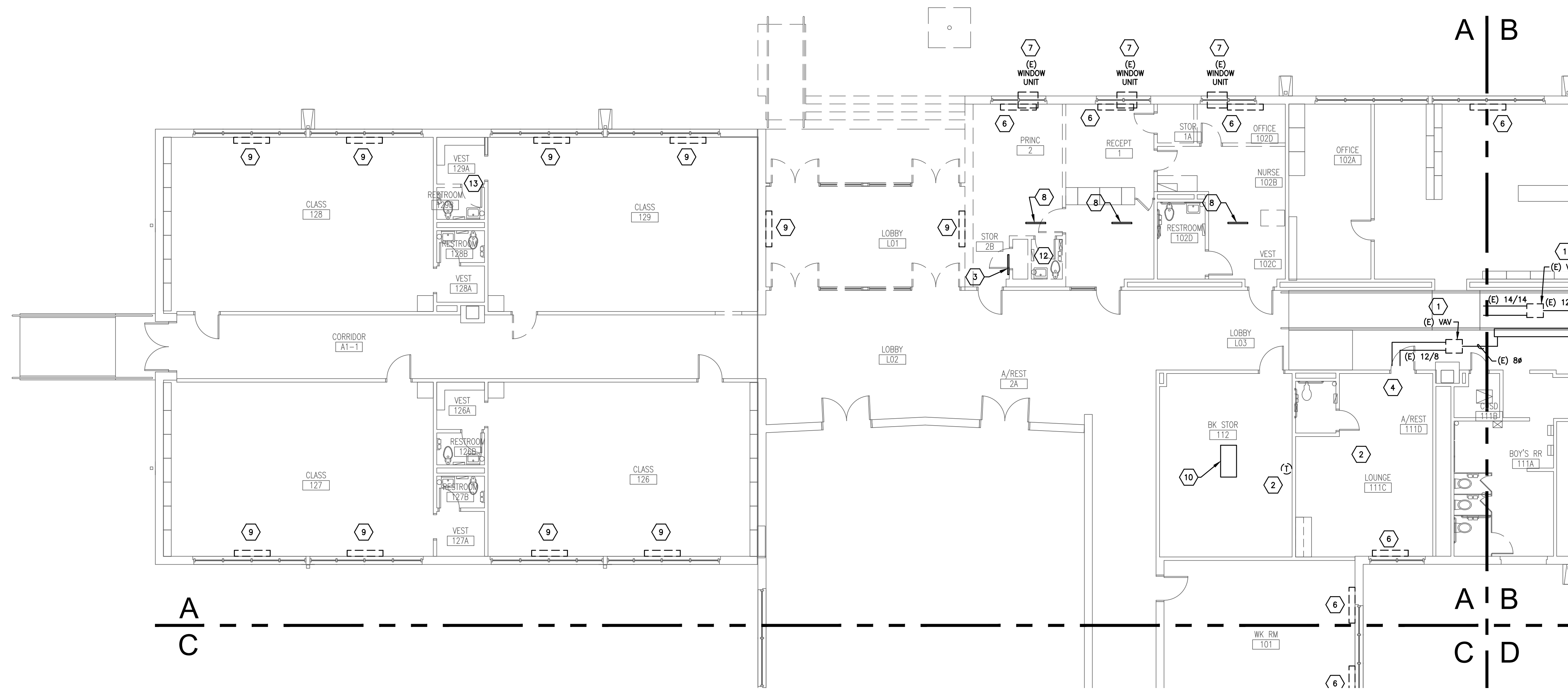
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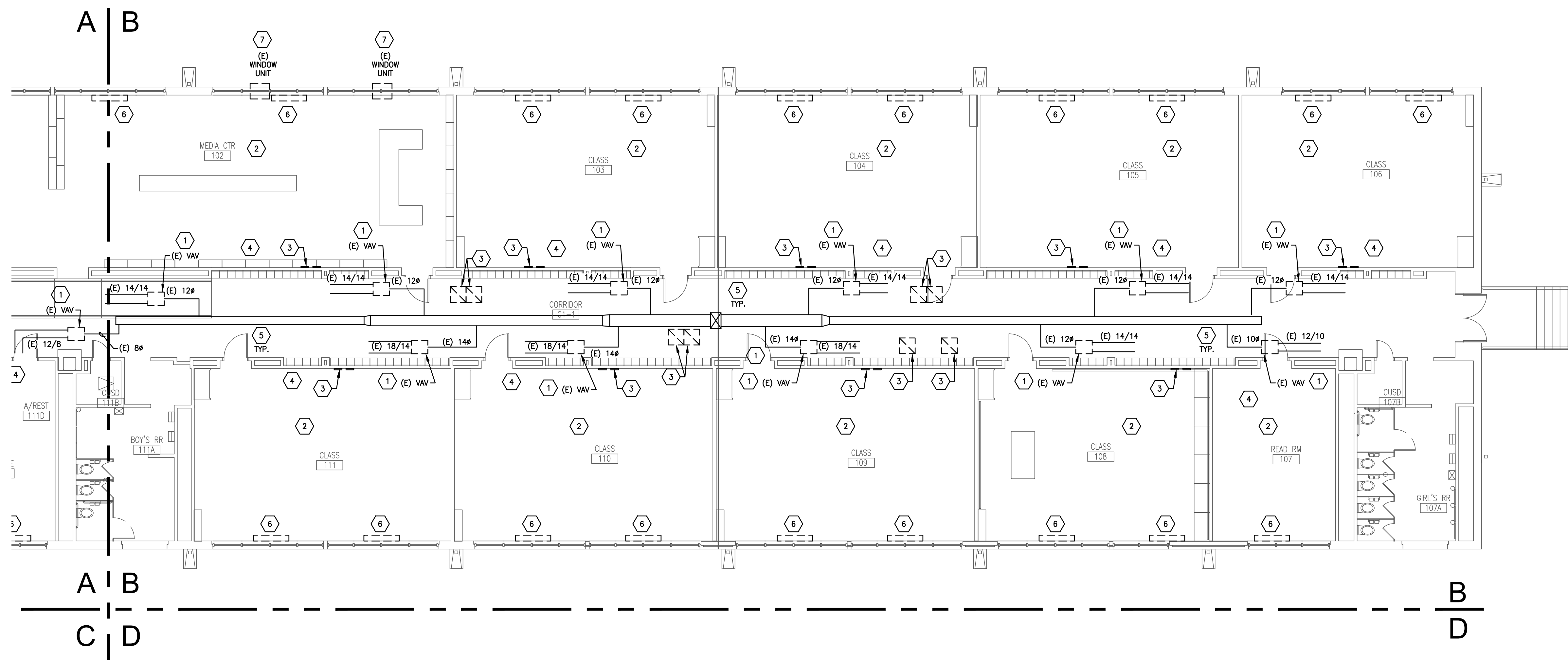
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1 FLOOR PLAN - AREA 'A' - MECHANICAL DEMO
 SCALE: 1/8" = 1'-0"

GENERAL MECHANICAL NOTES

- EVERY NOTE INDICATED BY SYMBOL IS NOT NECESSARILY USED ON THIS SHEET.
 - CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
 - THE DISTRICT SHALL HAVE THE RIGHT TO RETAIN POSSESSION OF ALL REMOVED OR DEMOLISHED ITEMS FOR REUSE OR SALVAGE. COORDINATE WITH THE DISTRICT REPRESENTATIVE ON THE PROJECT TO DETERMINE WHAT TO DO WITH THESE ITEMS.
- NOTES INDICATED BY SYMBOL (1)
- REMOVE EXISTING VAV BOX. PREPARE EXISTING DUCTWORK FOR RECONNECTION TO NEW VAV BOX AS SHOWN ON THE NEW MECHANICAL PLANS ON THE M2XX SERIES SHEETS.
 - REMOVE EXISTING THERMOSTAT IN THIS ROOM.
 - REMOVE EXISTING RETURN AIR GRILLE.
 - EXISTING SIDEWALL SUPPLY AIR GRILLE SHALL REMAIN.
 - EXISTING DUCTWORK MAIN SHALL REMAIN. EXISTING DUCT MAIN SHOWN FOR REFERENCE ONLY.
 - REMOVE EXISTING STEAM CONVECTOR. CAP ASSOCIATED STEAM PIPING BELOW FLOOR. CONTRACTOR SHALL PATCH EXISTING STEAM PIPING PENETRATIONS TO MATCH EXISTING CONDITIONS AS NEEDED. REFER TO ARCHITECTURAL FOR MORE INFORMATION ON MATCHING EXISTING CONDITIONS.
 - REMOVE EXISTING WINDOW UNIT. THE DISTRICT SHALL HAVE THE RIGHT TO RETAIN POSSESSION OF THIS UNIT FOR REUSE OR SALVAGE. COORDINATE WITH THE DISTRICT REPRESENTATIVE ON THE PROJECT TO DETERMINE WHAT TO DO WITH THIS UNIT.
 - REMOVE EXISTING SIDEWALL SUPPLY AIR GRILLE.
 - REMOVE EXISTING UNIT VENTILATOR. CAP ASSOCIATED HYDRONIC PIPING BELOW FLOOR. CONTRACTOR SHALL PATCH EXISTING PIPING PENETRATIONS TO MATCH EXISTING CONDITIONS AS NEEDED.
 - EXISTING CONCENTRIC DIFFUSER AND ASSOCIATED DUCTWORK SHALL REMAIN. PREPARE EXISTING DUCTWORK FOR CONNECTION TO NEW ROOFTOP UNIT.
 - REMOVE EXISTING CONCENTRIC DIFFUSER AND ASSOCIATED DUCTWORK.
 - REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK. THE DISTRICT SHALL HAVE THE RIGHT TO RETAIN POSSESSION OF THIS FAN FOR REUSE OR SALVAGE. COORDINATE WITH THE DISTRICT REPRESENTATIVE ON THE PROJECT TO DETERMINE WHAT TO DO WITH THIS FAN.
 - EXISTING EXHAUST FAN SHALL REMAIN.
 - REMOVE EXISTING CHWS/R PIPING TO THIS POINT AND PREPARE FOR CONNECTION TO NEW CHWS/R PIPING AS SHOWN ON 1/M213.
 - EXISTING CHILLER SHALL REMAIN.
 - REMOVE EXISTING INLINE HYDRONIC PUMP AND PREPARE FOR CONNECTION TO NEW CHWS/R PIPING AS SHOWN ON 1/M213.
 - REMOVE EXISTING AIR SEPARATOR AND EXISTING EXPANSION TANK. PREPARE FOR CONNECTION TO NEW CHWS/R PIPING AS SHOWN ON 1/M213.
 - DEMO EXISTING BOILER, ASSOCIATED PUMP, ASSOCIATED EXPANSION TANK AND OTHER ASSOCIATED ACCESSORIES. DEMO EXISTING HEATING WATER SUPPLY AND RETURN PIPING TO THE POINT WHERE THEY EXIT THE BOILER ROOM. PREPARE HEATING WATER PIPING FOR CONNECTION TO NEW HEATING WATER SYSTEM. REFER TO M2.X SERIES DRAWINGS FOR MORE INFORMATION REGARDING THE NEW SYSTEM. DEMO EXISTING GAS LINE BACK TO MAIN AND CAP. CAP THE FLUE FOR THIS AND THE NEARBY LOCKHART DOMESTIC WATER BOILER BEING REMOVED AS A PART OF THE PLUMBING SCOPE.
 - DEMO EXISTING ABANDONED STEAM PIPING BACK TO HEADER AS SHOWN.

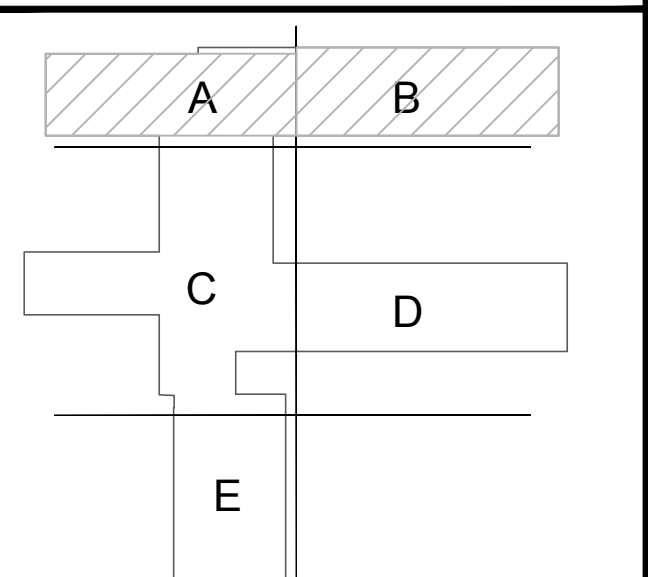


2 FLOOR PLAN - AREA 'B' - MECHANICAL DEMO
 SCALE: 1/8" = 1'-0"

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KEY PLAN



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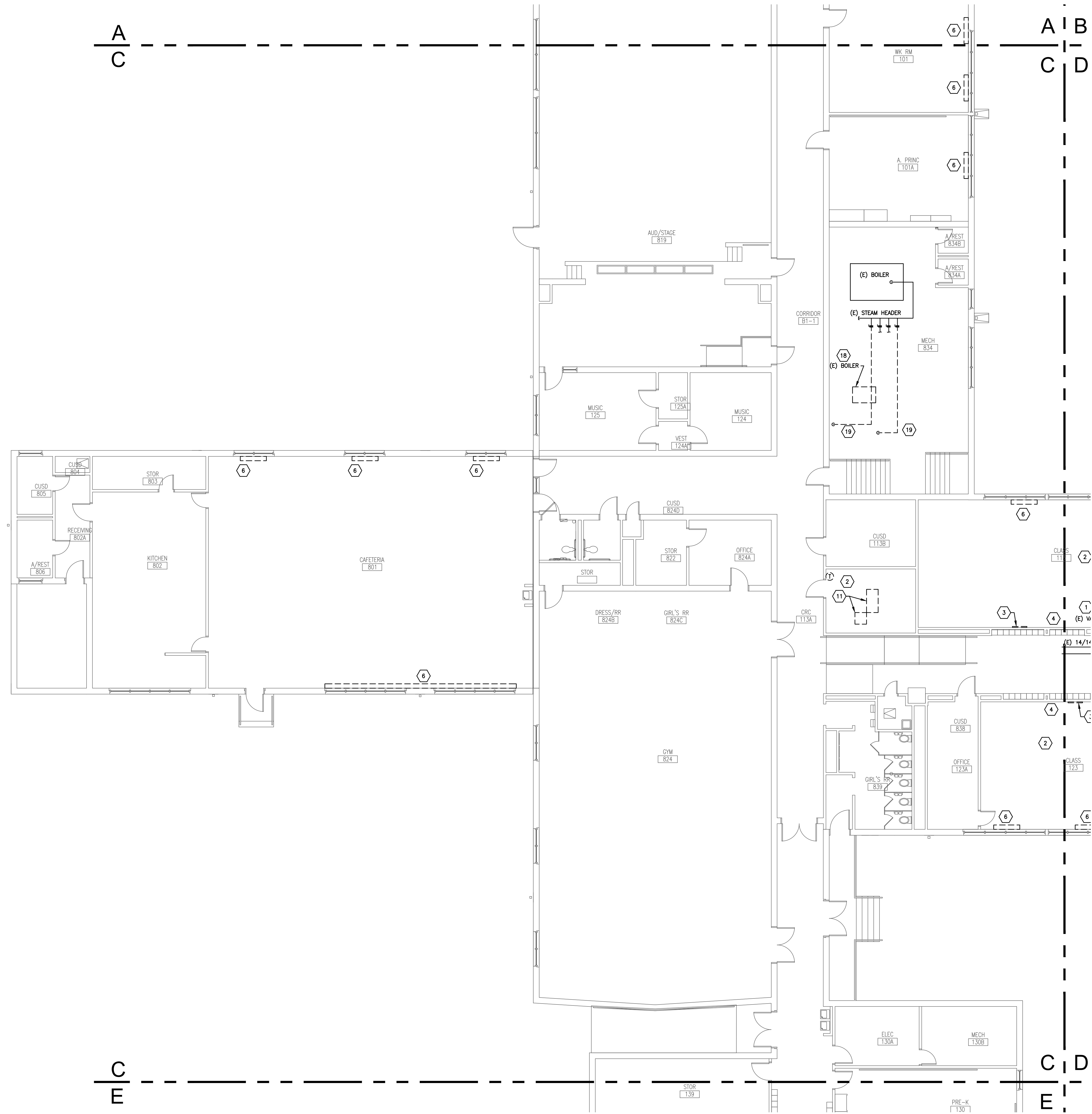
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Sheet Title

FLOOR PLAN
 MECHANICAL DEMO

Sheet Number

M101



GENERAL MECHANICAL NOTES

1. EVERY NOTE INDICATED BY SYMBOL IS NOT NECESSARILY USED ON THIS SHEET.
2. CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
3. THE DISTRICT SHALL HAVE THE RIGHT TO RETAIN POSSESSION OF ALL REMOVED OR DEMOLISHED ITEMS FOR REUSE OR SALVAGE. COORDINATE WITH THE DISTRICT REPRESENTATIVE ON THE PROJECT TO DETERMINE WHAT TO DO WITH THESE ITEMS.

NOTES INDICATED BY SYMBOL

1. REMOVE EXISTING VAV BOX. PREPARE EXISTING DUCTWORK FOR RECONNECTION TO NEW VAV BOX AS SHOWN ON THE NEW MECHANICAL PLANS ON THE M2XX SERIES SHEETS.
2. REMOVE EXISTING THERMOSTAT IN THIS ROOM.
3. REMOVE EXISTING RETURN AIR GRILLE.
4. EXISTING SIDEWALL SUPPLY AIR GRILLE SHALL REMAIN.
5. EXISTING DUCTWORK MAIN SHALL REMAIN. EXISTING DUCT MAIN SHOWN FOR REFERENCE ONLY.
6. REMOVE EXISTING STEAM CONNECTOR. CAP ASSOCIATED STEAM PIPING BELOW FLOOR. CONTRACTOR SHALL PATCH EXISTING STEAM PIPING PENETRATIONS TO MATCH EXISTING CONDITIONS AS NEEDED. REFER TO ARCHITECTURAL FOR MORE INFORMATION ON MATCHING EXISTING CONDITIONS.
7. REMOVE EXISTING WINDOW UNIT. THE DISTRICT SHALL HAVE THE RIGHT TO RETAIN POSSESSION OF THIS UNIT FOR REUSE OR SALVAGE. COORDINATE WITH THE DISTRICT REPRESENTATIVE ON THE PROJECT TO DETERMINE WHAT TO DO WITH THIS UNIT.
8. REMOVE EXISTING SIDEWALL SUPPLY AIR GRILLE.
9. REMOVE EXISTING UNIT VENTILATOR. CAP ASSOCIATED HYDRONIC PIPING BELOW FLOOR. CONTRACTOR SHALL PATCH EXISTING PIPING PENETRATIONS TO MATCH EXISTING CONDITIONS AS NEEDED.
10. EXISTING CONCENTRIC DIFFUSER AND ASSOCIATED DUCTWORK SHALL REMAIN. PREPARE EXISTING DUCTWORK FOR CONNECTION TO NEW ROOFTOP UNIT.
11. REMOVE EXISTING CONCENTRIC DIFFUSER AND ASSOCIATED DUCTWORK.
12. REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK. THE DISTRICT SHALL HAVE THE RIGHT TO RETAIN POSSESSION OF THIS FAN FOR REUSE OR SALVAGE. COORDINATE WITH THE DISTRICT REPRESENTATIVE ON THE PROJECT TO DETERMINE WHAT TO DO WITH THIS FAN.
13. EXISTING EXHAUST FAN SHALL REMAIN.
14. REMOVE EXISTING CHWS/R PIPING TO THIS POINT AND PREPARE FOR CONNECTION TO NEW CHWS/R PIPING AS SHOWN ON 1/M213.
15. EXISTING CHILLER SHALL REMAIN.
16. REMOVE EXISTING INLINE HYDRONIC PUMP AND PREPARE FOR CONNECTION TO NEW CHWS/R PIPING AS SHOWN ON 1/M213.
17. REMOVE EXISTING AIR SEPARATOR AND EXISTING EXPANSION TANK. PREPARE FOR CONNECTION TO NEW CHWS/R PIPING AS SHOWN ON 1/M213.
18. DEMO EXISTING BOILER, ASSOCIATED PUMP, ASSOCIATED EXPANSION TANK AND OTHER ASSOCIATED ACCESSORIES. DEMO EXISTING HEATING WATER SUPPLY AND RETURN PIPING TO THE POINT WHERE THEY EXIT THE BOILER ROOM. PREPARE HEATING WATER PIPING FOR CONNECTION TO NEW HEATING WATER SYSTEM. REFER TO M2X SERIES DRAWINGS FOR MORE INFORMATION REGARDING THE NEW SYSTEM. DEMO EXISTING GAS LINE BACK TO MAIN AND CAP. CAP THE FLUE FOR THIS AND THE NEARBY LOORHVAR DOMESTIC WATER BOILER BEING REMOVED AS A PART OF THE PLUMBING SCOPE.
19. DEMO EXISTING ABANDONED STEAM PIPING BACK TO HEADER AS SHOWN.

1 FLOOR PLAN - AREA 'C' - MECHANICAL DEMO
 SCALE: 1/8" = 1'-0"

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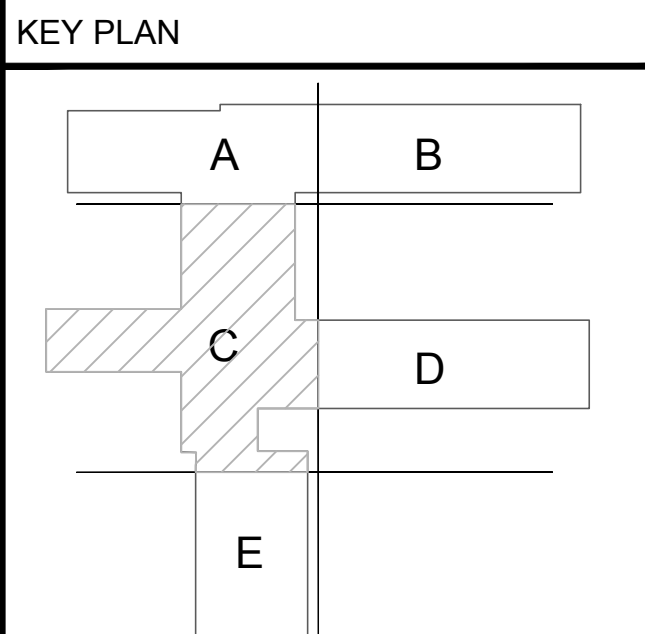
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OWNER'S REPRESENTATIVE:
 DALLAS ISD CONSTRUCTION BOND SERVICES
 9400 NORTH CENTRAL EXPRESSWAY SUITE 800
 Dallas, Texas 75231

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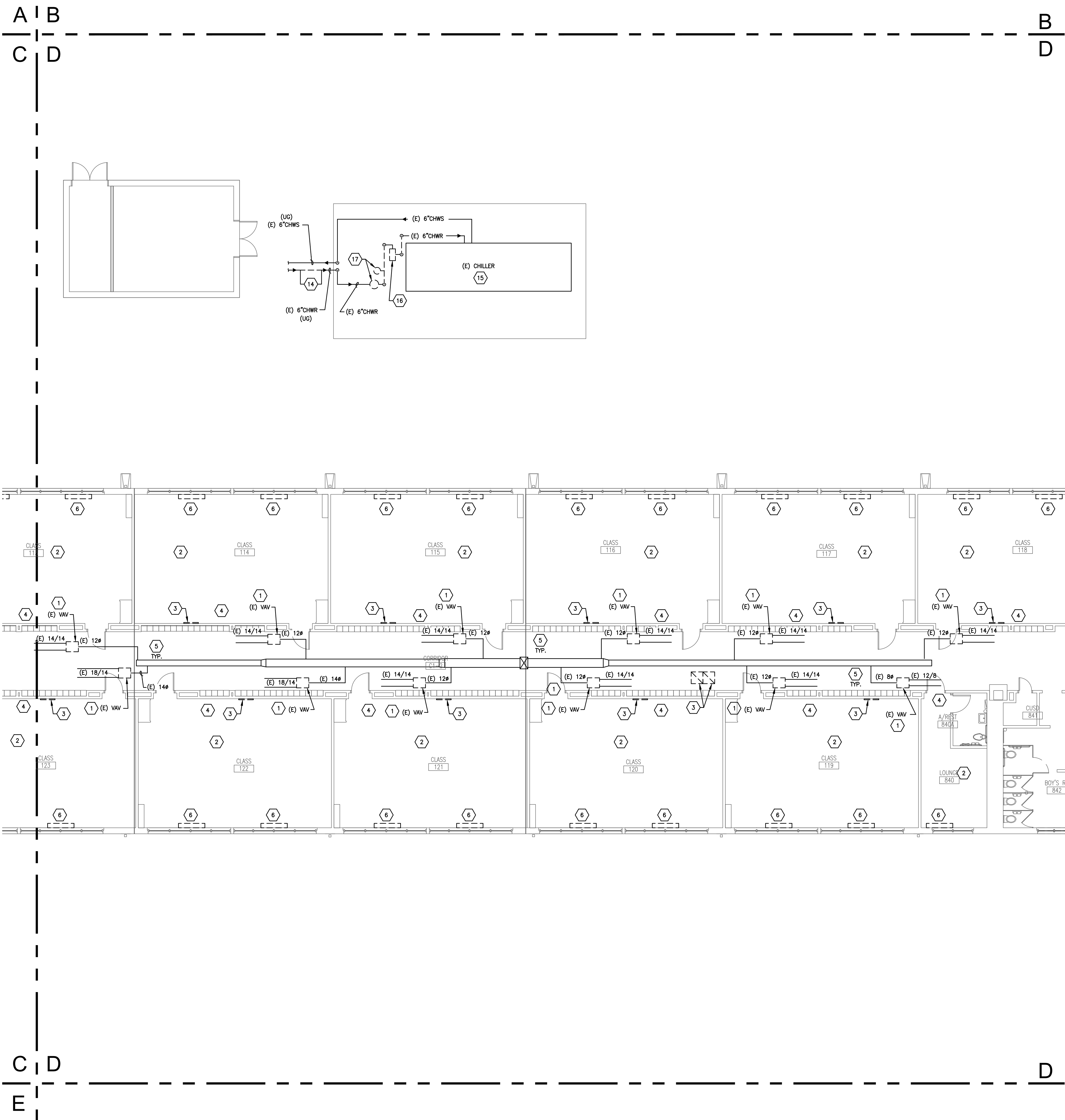
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JMA Project Number:
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Sheet Title
**FLOOR PLAN
 MECHANICAL DEMO**
 Sheet Number

M102



- GENERAL MECHANICAL NOTES**
- EVERY NOTE INDICATED BY SYMBOL IS NOT NECESSARILY USED ON THIS SHEET.
 - CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
 - THE DISTRICT SHALL HAVE THE RIGHT TO RETAIN POSSESSION OF ALL REMOVED OR DEMOLISHED ITEMS FOR REUSE OR SALVAGE. COORDINATE WITH THE DISTRICT REPRESENTATIVE ON THE PROJECT TO DETERMINE WHAT TO DO WITH THESE ITEMS.
- NOTES INDICATED BY SYMBOL (1)**
- REMOVE EXISTING VAV BOX. PREPARE EXISTING DUCTWORK FOR RECONNECTION TO NEW VAV BOX AS SHOWN ON THE NEW MECHANICAL PLANS ON THE M2XX SERIES SHEETS.
 - REMOVE EXISTING THERMOSTAT IN THIS ROOM.
 - REMOVE EXISTING RETURN AIR GRILLE.
 - EXISTING SIDEWALL SUPPLY AIR GRILLE SHALL REMAIN.
 - EXISTING DUCTWORK MAIN SHALL REMAIN. EXISTING DUCT MAIN SHOWN FOR REFERENCE ONLY.
 - REMOVE EXISTING STEAM CONVECTOR. CAP ASSOCIATED STEAM PIPING BELOW FLOOR. CONTRACTOR SHALL PATCH EXISTING STEAM PIPING PENETRATIONS TO MATCH EXISTING CONDITIONS AS NEEDED. REFER TO ARCHITECTURAL FOR MORE INFORMATION ON MATCHING EXISTING CONDITIONS.
 - REMOVE EXISTING WINDOW UNIT. THE DISTRICT SHALL HAVE THE RIGHT TO RETAIN POSSESSION OF THIS UNIT FOR REUSE OR SALVAGE. COORDINATE WITH THE DISTRICT REPRESENTATIVE ON THE PROJECT TO DETERMINE WHAT TO DO WITH THIS UNIT.
 - REMOVE EXISTING SIDEWALL SUPPLY AIR GRILLE.
 - REMOVE EXISTING UNIT VENTILATOR. CAP ASSOCIATED HYDRONIC PIPING BELOW FLOOR. CONTRACTOR SHALL PATCH EXISTING PIPING PENETRATIONS TO MATCH EXISTING CONDITIONS AS NEEDED.
 - EXISTING CONCENTRIC DIFFUSER AND ASSOCIATED DUCTWORK SHALL REMAIN. PREPARE EXISTING DUCTWORK FOR CONNECTION TO NEW ROOFTOP UNIT.
 - REMOVE EXISTING CONCENTRIC DIFFUSER AND ASSOCIATED DUCTWORK.
 - REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK. THE DISTRICT SHALL HAVE THE RIGHT TO RETAIN POSSESSION OF THIS FAN FOR REUSE OR SALVAGE. COORDINATE WITH THE DISTRICT REPRESENTATIVE ON THE PROJECT TO DETERMINE WHAT TO DO WITH THIS FAN.
 - EXISTING EXHAUST FAN SHALL REMAIN.
 - REMOVE EXISTING CHWS/R PIPING TO THIS POINT AND PREPARE FOR CONNECTION TO NEW CHWS/R PIPING AS SHOWN ON 1/M213.
 - EXISTING CHILLER SHALL REMAIN.
 - REMOVE EXISTING INLINE HYDRONIC PUMP AND PREPARE FOR CONNECTION TO NEW CHWS/R PIPING AS SHOWN ON 1/M213.
 - REMOVE EXISTING AIR SEPARATOR AND EXISTING EXPANSION TANK. PREPARE FOR CONNECTION TO NEW CHWS/R PIPING AS SHOWN ON 1/M213.
 - DEMO EXISTING BOILER, ASSOCIATED PUMP, ASSOCIATED EXPANSION TANK AND OTHER ASSOCIATED ACCESSORIES. DEMO EXISTING HEATING WATER SUPPLY AND RETURN PIPING TO THE POINT WHERE THEY EXIT THE BOILER ROOM. PREPARE HEATING WATER PIPING FOR CONNECTION TO NEW HEATING WATER SYSTEM. REFER TO M2.X SERIES DRAWINGS FOR MORE INFORMATION REGARDING THE NEW SYSTEM. DEMO EXISTING GAS LINE BACK TO MAIN AND CAP. CAP THE FLUE FOR THIS AND THE NEARBY LOCKHART DOMESTIC WATER BOILER BEING REMOVED AS A PART OF THE PLUMBING SCOPE.
 - DEMO EXISTING ABANDONED STEAM PIPING BACK TO HEADER AS SHOWN.

1 FLOOR PLAN - AREA 'D' - MECHANICAL DEMO
 SCALE: 1/8" = 1'-0"

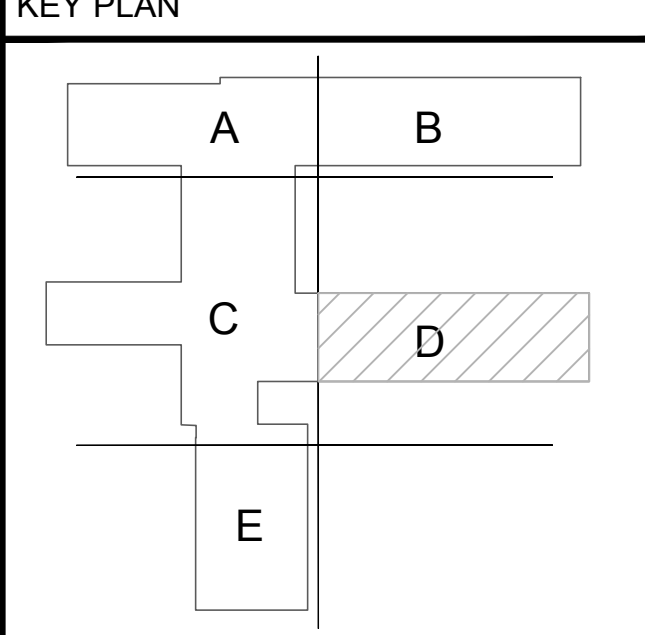
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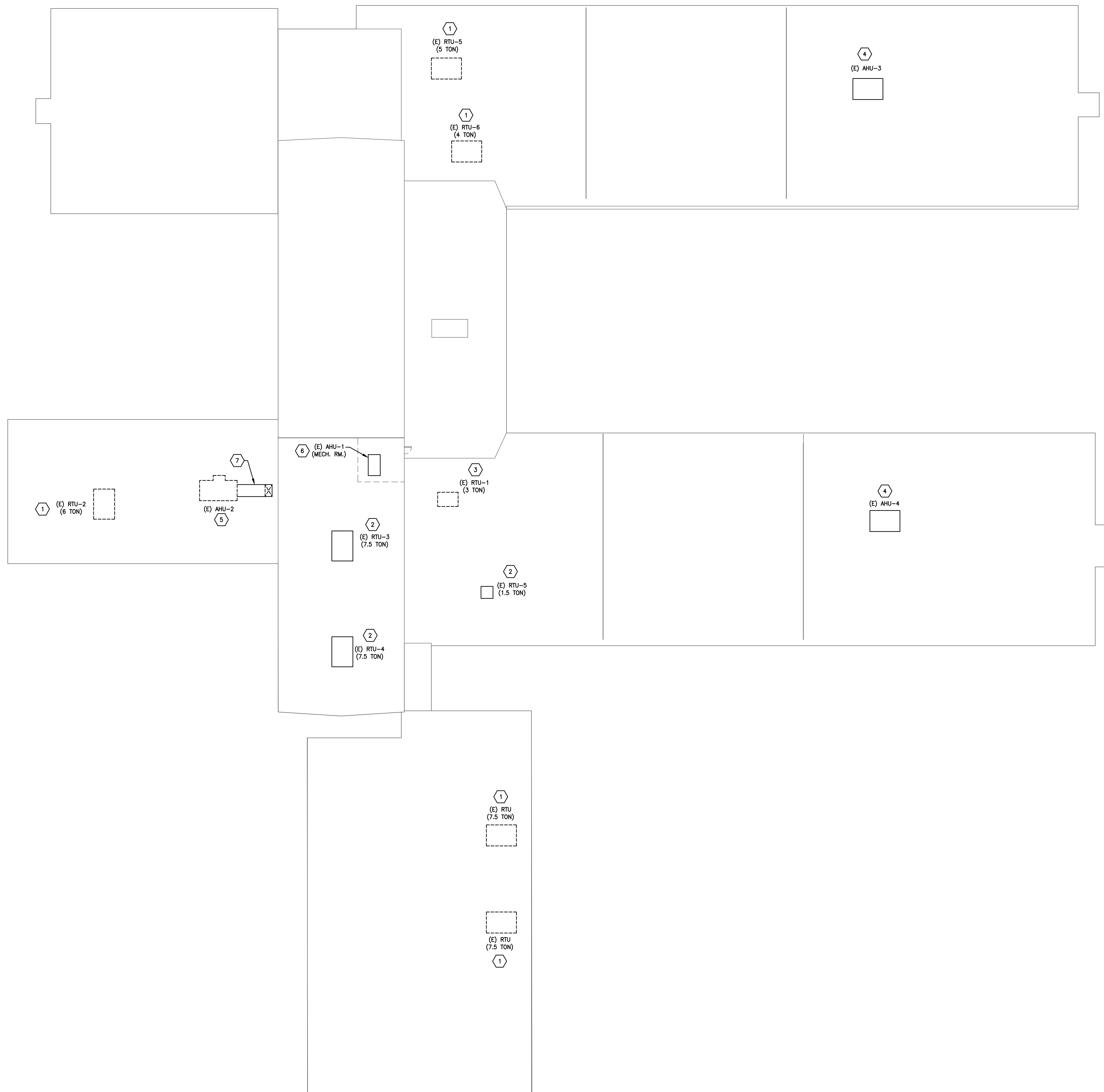
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JMA Project Number:
 Date: 08/09/2024
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 Sheet Title
**FLOOR PLAN
 MECHANICAL DEMO**
 Sheet Number
M103



1 ROOF PLAN -- MECHANICAL DEMO
SCALE: 1/16" = 1'-0"

GENERAL MECHANICAL NOTES

1. DUCTWORK SHALL BE RUN AS HIGH AND TIGHT TO THE STRUCTURE AS POSSIBLE.
2. TEST AND BALANCE WORK SHALL BE PERFORMED BY THE DISTRICT. COORDINATE WITH THE DISTRICT TO SCHEDULE TEST AND BALANCE WORK.
3. A HOME-RUN SHALL BE PROVIDED FOR ALL NEW CONTROL WIRING. NO CONTROL WIRING SHALL BE SPLICED.
4. CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.
5. CONTRACTOR SHALL PROTECT ROOF DURING ALL PHASES OF CONSTRUCTION.

NOTES INDICATED BY SYMBOL

1. REMOVE EXISTING ROOFTOP UNIT. PREPARE EXISTING DUCTWORK, GAS LINE, AND CONDENSATE FOR CONNECTION TO NEW ROOFTOP UNIT.
2. EXISTING ROOFTOP UNIT SHALL REMAIN.
3. REMOVE EXISTING ROOFTOP UNIT, ASSOCIATED DUCTWORK, AND CONCENTRIC DIFFUSER IN ROOM BELOW. CAP EXISTING ROOF CURB AS NEEDED.
4. EXISTING AIR HANDLING UNIT SHALL REMAIN.
5. REMOVE EXISTING HYDRONIC AIR HANDLING UNIT. PREPARE EXISTING DUCTWORK AND CONDENSATE DRAIN LINE FOR CONNECTION TO NEW ROOFTOP UNIT. DEMO EXISTING HYDRONIC LINES BACK INTO SPACE AND CAP. CONTRACTOR SHALL REUSE EXISTING ROOF PENETRATION AS MUCH AS POSSIBLE.
6. CONTRACTOR SHALL REMOVE EXISTING STEAM COIL ON EXISTING AIR HANDLING UNIT LOCATED IN MECHANICAL PENTHOUSE ROOM ON ROOF. PREPARE EXISTING AIR HANDLING UNIT FOR CONNECTION TO NEW HEATING WATER COIL AS SHOWN ON 1/M204. REMOVE EXISTING STEAM LINES AND CAP.
7. EXISTING DUCTWORK SHALL REMAIN.

ARCHITECT:



13355 Noel Rd., Suite 1100, Dallas, Texas 75240
Phone: (214) 745-7070
Web Site - www.jmajohnsonarchitect.com

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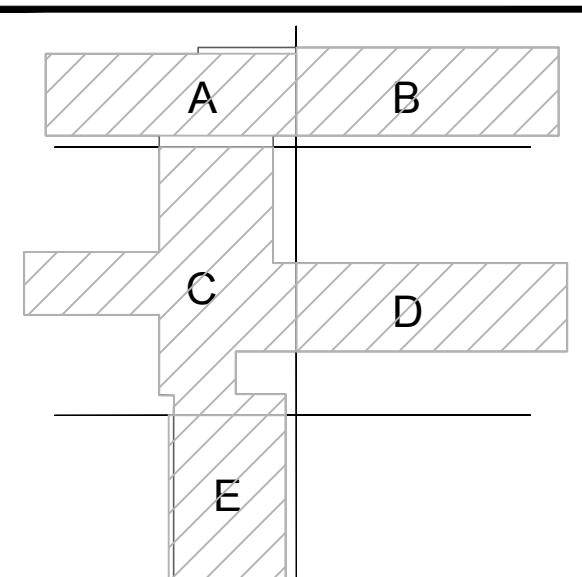
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KEY PLAN



JMA Project Number:

Date: 08/09/2024

Scale:

Sheet Title

ROOF PLAN
MECHANICAL DEMO

Sheet Number

M104

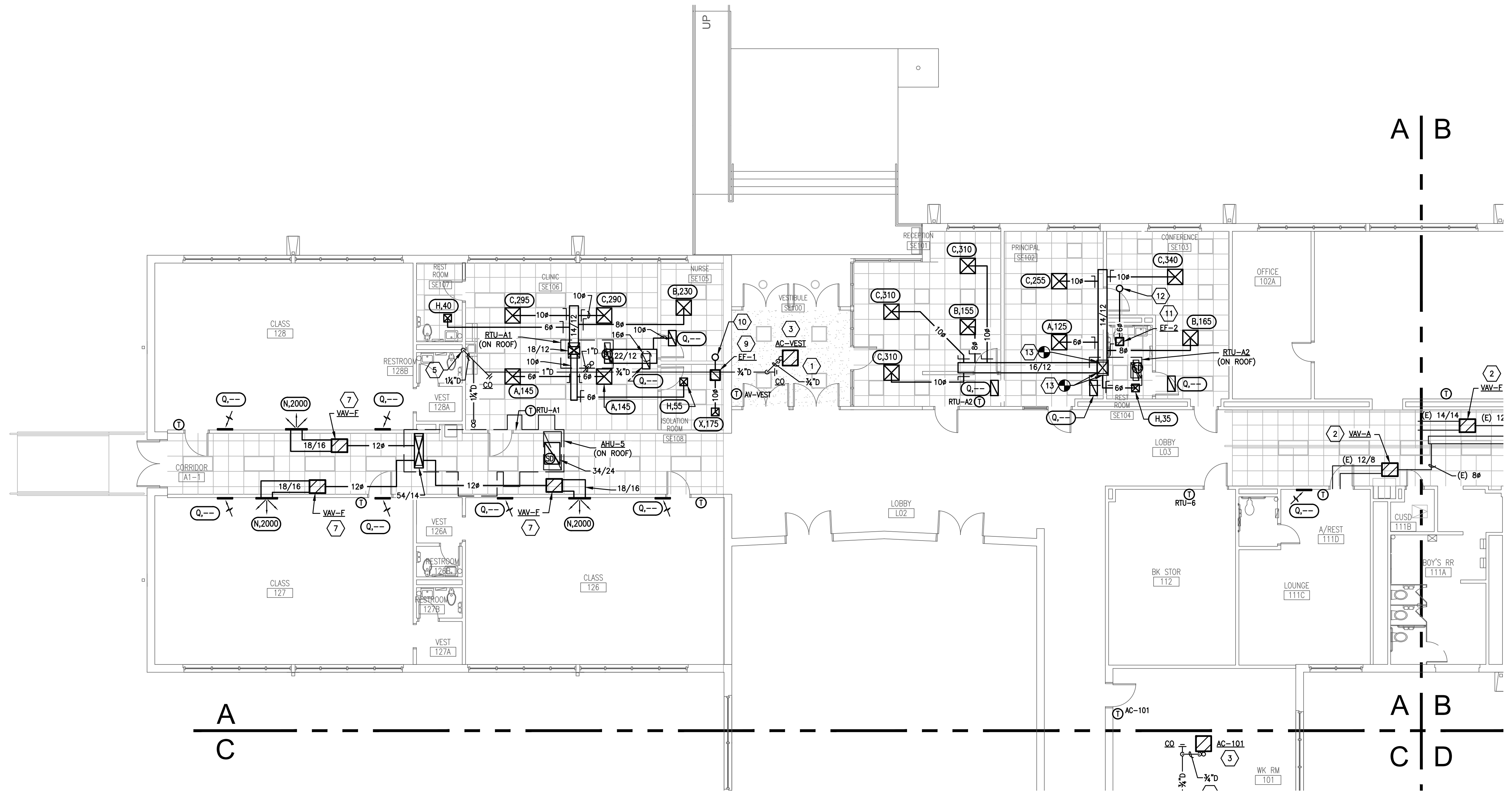
SIMS ENGINEERING, LLC

11720 FREESTON ROAD | SUITE 600 #114
DALLAS, TEXAS 75220 | 214.205.5571
WWW.SIMSENG.COM | REG. # 10571

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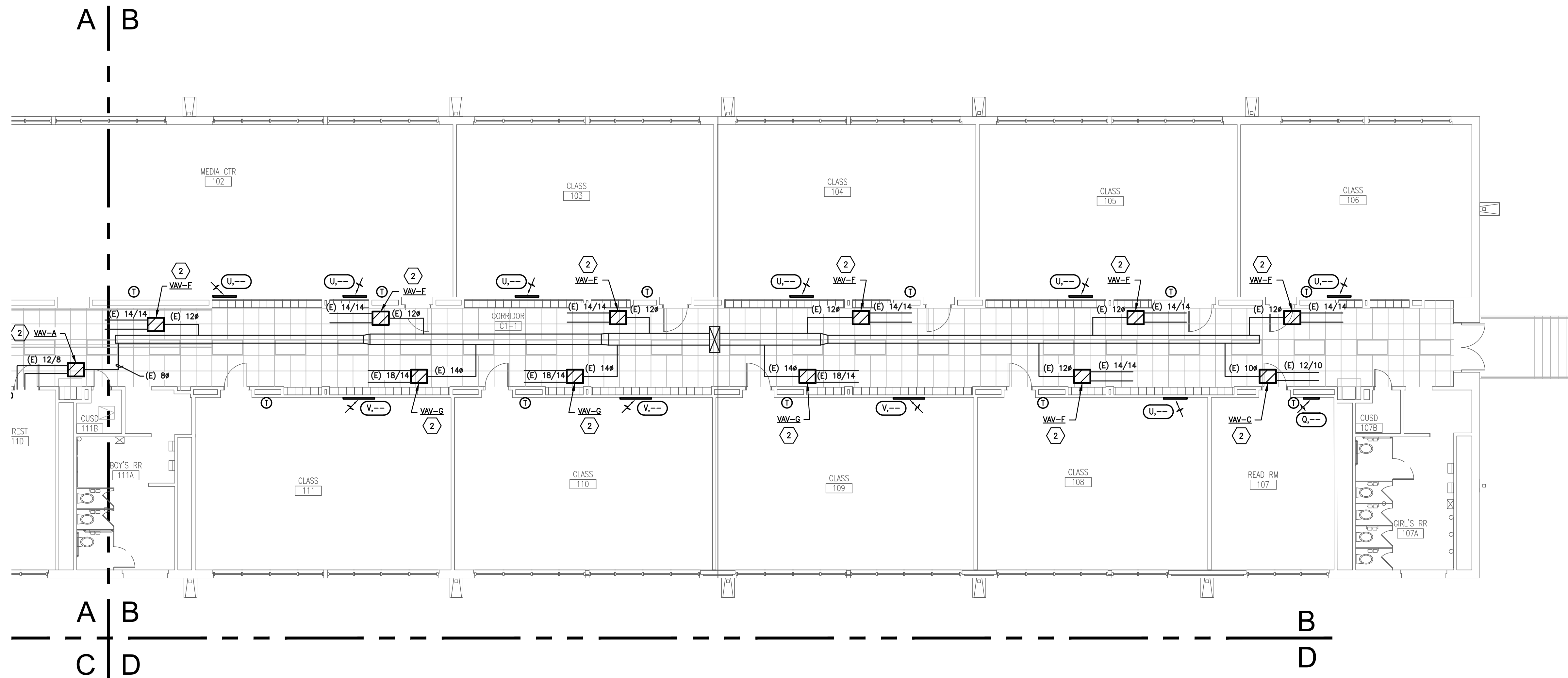
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1 FLOOR PLAN - AREA 'A' - MECHANICAL
 SCALE: 1/8" = 1'-0"

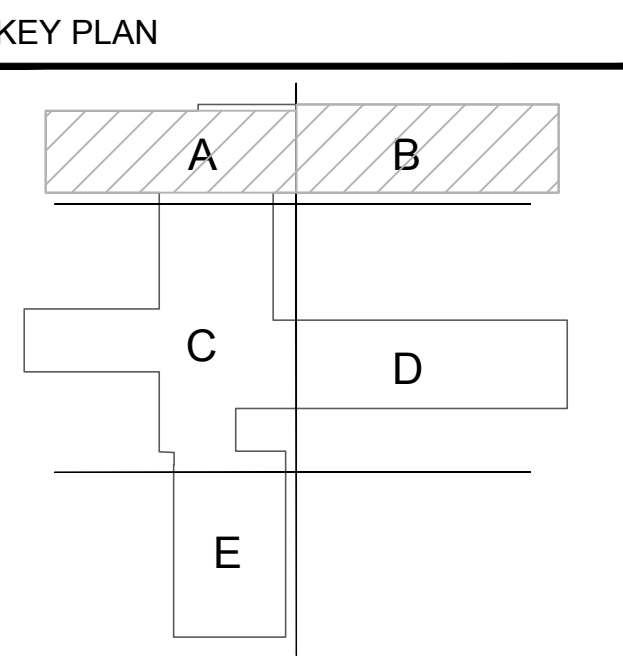
- GENERAL MECHANICAL NOTES**
- EVERY NOTE INDICATED BY SYMBOL IS NOT NECESSARILY USED ON THIS SHEET.
 - A MANUAL BALANCING DAMPER SHALL BE INSTALLED ON EACH SUPPLY AND RETURN AIR BRANCH WHETHER OR NOT IT IS SHOWN ON THE DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS.
 - MAKE RUN-OUT TO DIFFUSER OR GRILL THE SAME AS THE NECK SIZE OF THE DIFFUSER OR GRILL UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS.
 - DUCTWORK SHALL BE RUN AS HIGH AND TIGHT TO THE STRUCTURE AS POSSIBLE.
 - TEST AND BALANCE WORK SHALL BE PERFORMED BY THE DISTRICT. COORDINATE WITH THE DISTRICT TO SCHEDULE TEST AND BALANCE WORK.
 - A HOME-RUN SHALL BE PROVIDED FOR ALL NEW CONTROL WIRING. NO CONTROL WIRING SHALL BE SPLICED.
- NOTES INDICATED BY SYMBOL**
- ROUTE PRESSURIZED 3/4" CONDENSATE DRAIN LINE FROM UNIT TO GRAVITY CONDENSATE DRAIN LINE AS SHOWN. TERMINATE INTO THE TOP OF THE GRAVITY CONDENSATE DRAIN AT A 45 DEGREE ANGLE.
 - FURNISH AND INSTALL TERMINAL UNIT AS SCHEDULED PER MANUFACTURER RECOMMENDATIONS. CONNECT INTO EXISTING DUCTWORK SERVING EXISTING VAV UNIT REMOVED DURING DEMO PHASE OF CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DUCT SIZES THAT REQUIRE CONNECTION PRIOR TO CONSTRUCTION AND FURNISH AND INSTALL ANY TRANSITIONS NEEDED FOR A COMPLETE AND WORKING SYSTEM.
 - FURNISH AND INSTALL NEW CEILING CASSETTE AIR HANDLING UNIT PER MANUFACTURER RECOMMENDATIONS.
 - FURNISH AND INSTALL NEW WALL MOUNTED AIR HANDLING UNIT PER MANUFACTURER RECOMMENDATIONS. RECONNECT TO EXISTING CONDENSATE LINE.
 - 1 1/2" CONDENSATE DRAIN DOWN WALL TERMINATING INDIRECTLY INTO SINK TAILPIECE BELOW.
 - 1" CONDENSATE DRAIN DOWN WALL TERMINATING INDIRECTLY INTO SINK BELOW.
 - FURNISH AND INSTALL TERMINAL UNIT AS SCHEDULED PER MANUFACTURER RECOMMENDATIONS.
 - ROUTE PRESSURIZED 3/4" CONDENSATE DRAIN LINE FROM UNIT TO EXISTING GRAVITY CONDENSATE DRAIN LINE ABOVE CEILING AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING CONDENSATE LINE. TERMINATE INTO THE TOP OF THE GRAVITY CONDENSATE DRAIN AT A 45 DEGREE ANGLE.
 - FURNISH AND INSTALL NEW INLINE EXHAUST FAN PER DETAIL 3/M002 AND MANUFACTURER RECOMMENDATIONS.
 - 10" EXHAUST AIR DUCT TERMINATING THRU ROOF TO A GRAVITY VENTILATOR EQUAL TO GREENHECK GRSR-10.
 - FURNISH AND INSTALL NEW CABINET EXHAUST FAN PER DETAIL 4/M002 AND MANUFACTURER RECOMMENDATIONS.
 - 6" EXHAUST AIR DUCT TERMINATING THRU ROOF TO A GRAVITY VENTILATOR EQUAL TO GREENHECK GRSR-6.
 - CONNECT INTO EXISTING DUCTWORK AT THIS APPROXIMATE LOCATION AND ROUTE AS SHOWN. FIELD VERIFY EXACT LOCATION OF EXISTING DUCTWORK.
 - FURNISH AND INSTALL NEW SENSOR WITH PROTECTIVE COVER.



2 FLOOR PLAN - AREA 'B' - MECHANICAL
 SCALE: 1/8" = 1'-0"

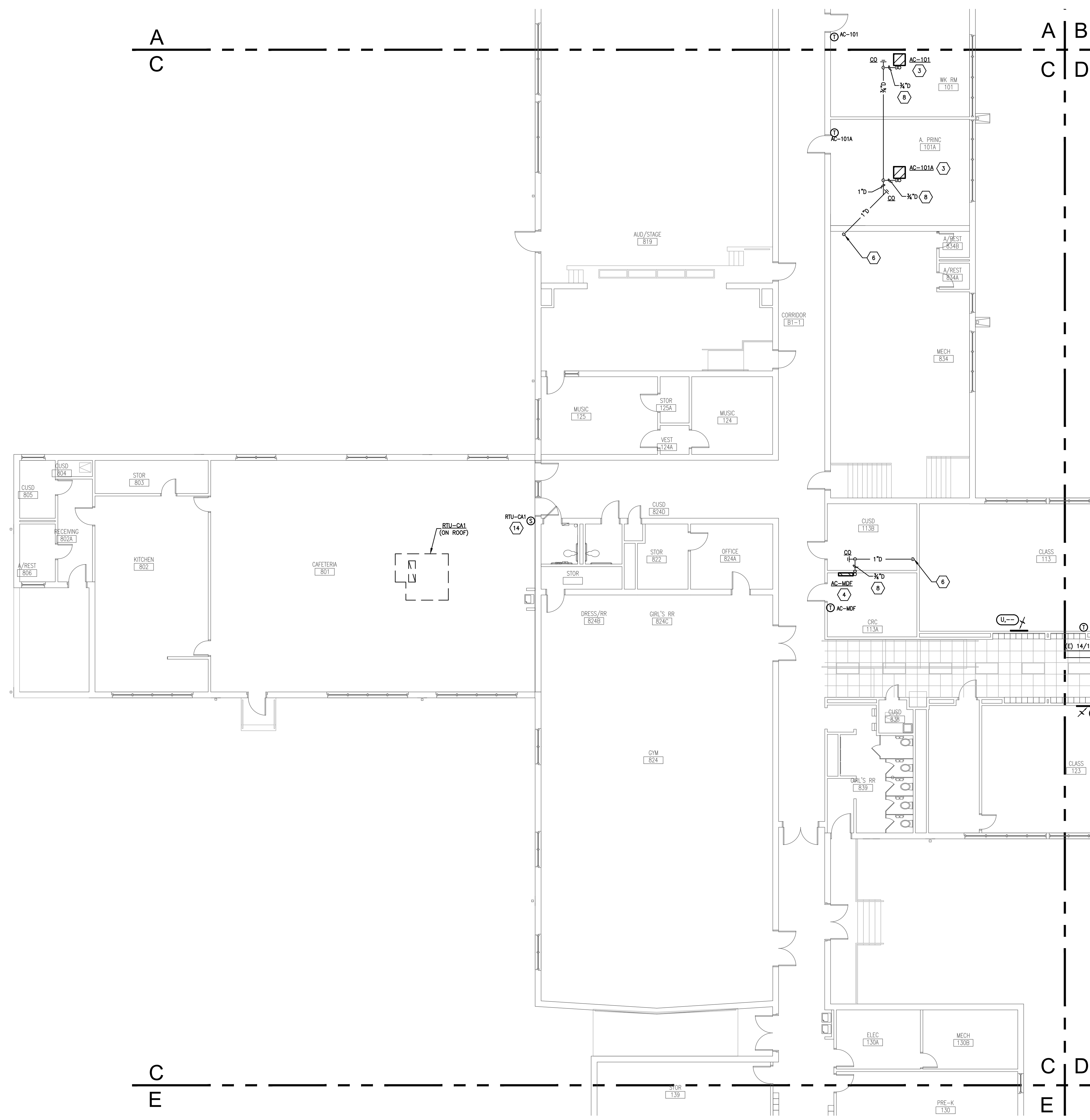
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 Sheet Title
FLOOR PLAN MECHANICAL
 Sheet Number
M201



- GENERAL MECHANICAL NOTES**
- EVERY NOTE INDICATED BY SYMBOL IS NOT NECESSARILY USED ON THIS SHEET.
 - A MANUAL BALANCING DAMPER SHALL BE INSTALLED ON EACH SUPPLY AND RETURN AIR BRANCH WHETHER OR NOT IT IS SHOWN ON THE DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS.
 - MAKE RUN-OUT TO DIFFUSER OR GRILL THE SAME AS THE NECK SIZE OF THE DIFFUSER OR GRILL UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS.
 - DUCTWORK SHALL BE RUN AS HIGH AND TIGHT TO THE STRUCTURE AS POSSIBLE.
 - TEST AND BALANCE WORK SHALL BE PERFORMED BY THE DISTRICT. COORDINATE WITH THE CONTRACT DOCUMENTS IN DIVISION 0.
 - A HOME-RUN SHALL BE PROVIDED FOR ALL NEW CONTROL WIRING. NO CONTROL WIRING SHALL BE SPLICED.
 - CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.

- NOTES INDICATED BY SYMBOL**
- ROUTE PRESSURIZED 1/2" CONDENSATE DRAIN LINE FROM UNIT TO GRAVITY CONDENSATE DRAIN LINE AS SHOWN. TERMINATE INTO THE TOP OF THE GRAVITY CONDENSATE DRAIN AT A 45 DEGREE ANGLE.
 - FURNISH AND INSTALL TERMINAL UNIT AS SCHEDULED PER MANUFACTURER RECOMMENDATIONS. CONNECT INTO EXISTING DUCTWORK SERVING EXISTING VAV UNIT REMOVED DURING DEMO PHASE OF CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DUCT SIZES THAT REQUIRE CONNECTION PRIOR TO CONSTRUCTION AND FURNISH AND INSTALL ANY TRANSITIONS NEEDED FOR A COMPLETE AND WORKING SYSTEM.
 - FURNISH AND INSTALL NEW CEILING CASSETTE AIR HANDLING UNIT PER MANUFACTURER RECOMMENDATIONS.
 - FURNISH AND INSTALL NEW WALL MOUNTED AIR HANDLING UNIT PER MANUFACTURER RECOMMENDATIONS. RECONNECT TO EXISTING CONDENSATE LINE.
 - 1/2" CONDENSATE DRAIN DOWN WALL TERMINATING INDIRECTLY INTO SINK TAILPIECE BELOW.
 - 1" CONDENSATE DRAIN DOWN WALL TERMINATING INDIRECTLY INTO SINK BELOW.
 - FURNISH AND INSTALL TERMINAL UNIT AS SCHEDULED PER MANUFACTURER RECOMMENDATIONS.
 - ROUTE PRESSURIZED 1/2" CONDENSATE DRAIN LINE FROM UNIT TO EXISTING GRAVITY CONDENSATE DRAIN LINE ABOVE CEILING AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING CONDENSATE LINE. TERMINATE INTO THE TOP OF THE GRAVITY CONDENSATE DRAIN AT A 45 DEGREE ANGLE.
 - FURNISH AND INSTALL NEW INLINE EXHAUST FAN PER DETAIL 3/M002 AND MANUFACTURER RECOMMENDATIONS.
 - 10" EXHAUST AIR DUCT TERMINATING THRU ROOF TO A GRAVITY VENTILATOR EQUAL TO GREENHECK GRSR-10.
 - FURNISH AND INSTALL NEW CABINET EXHAUST FAN PER DETAIL 4/M002 AND MANUFACTURER RECOMMENDATIONS.
 - 6" EXHAUST AIR DUCT TERMINATING THRU ROOF TO A GRAVITY VENTILATOR EQUAL TO GREENHECK GRSR-6.
 - CONNECT INTO EXISTING DUCTWORK AT THIS APPROXIMATE LOCATION AND ROUTE AS SHOWN. FIELD VERIFY EXACT LOCATION OF EXISTING DUCTWORK.
 - FURNISH AND INSTALL NEW SENSOR WITH PROTECTIVE COVER.

1 FLOOR PLAN - AREA 'C' - MECHANICAL
 SCALE: 1/8" = 1'-0"

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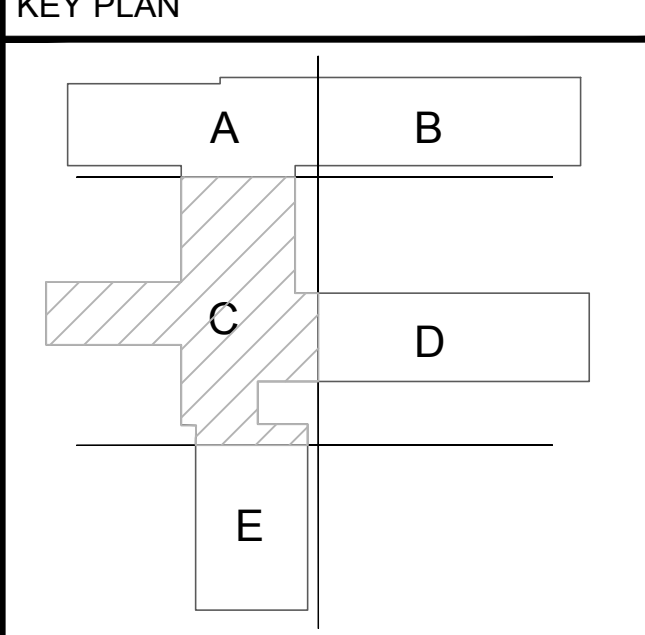
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OWNER'S REPRESENTATIVE:
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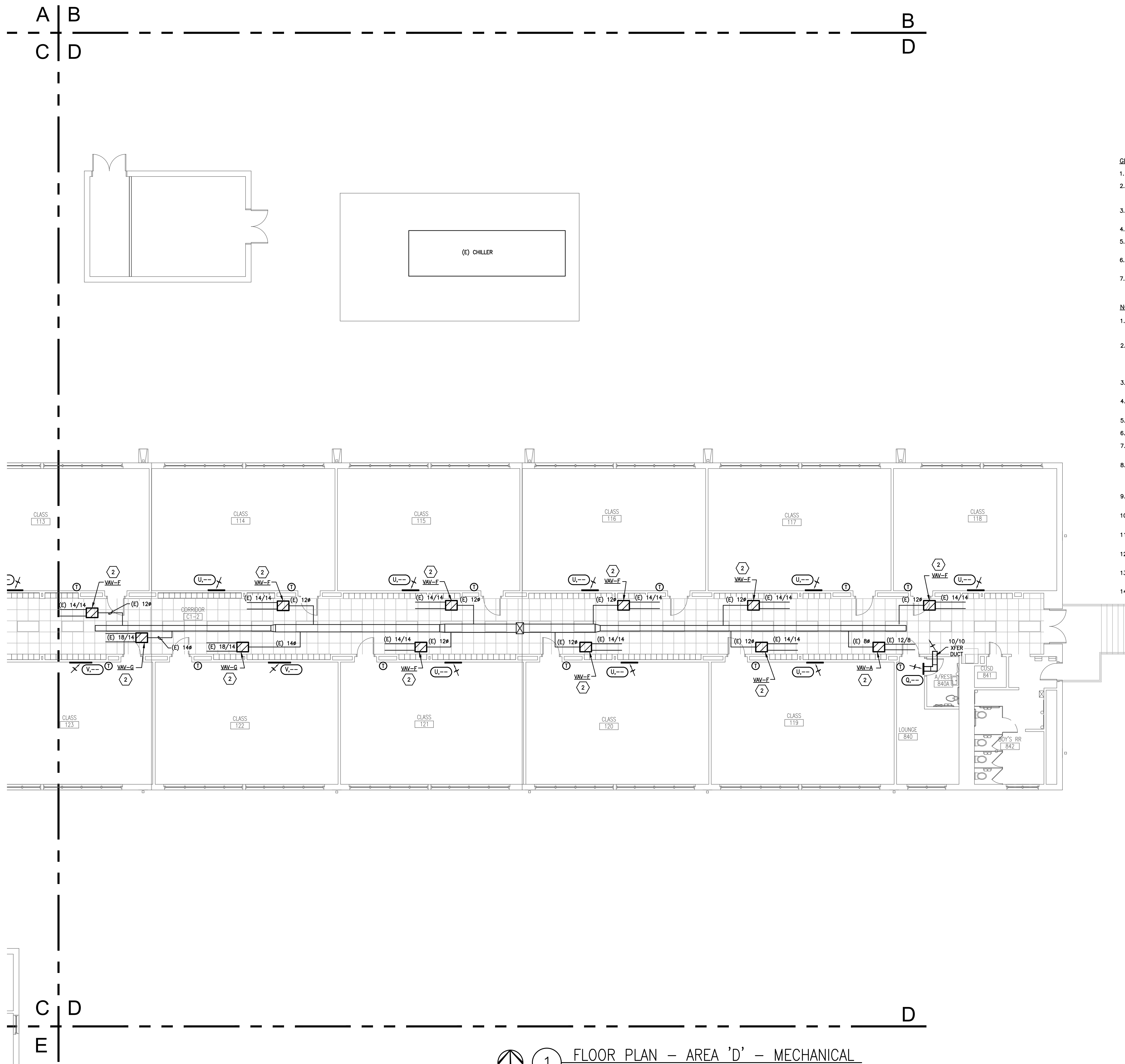


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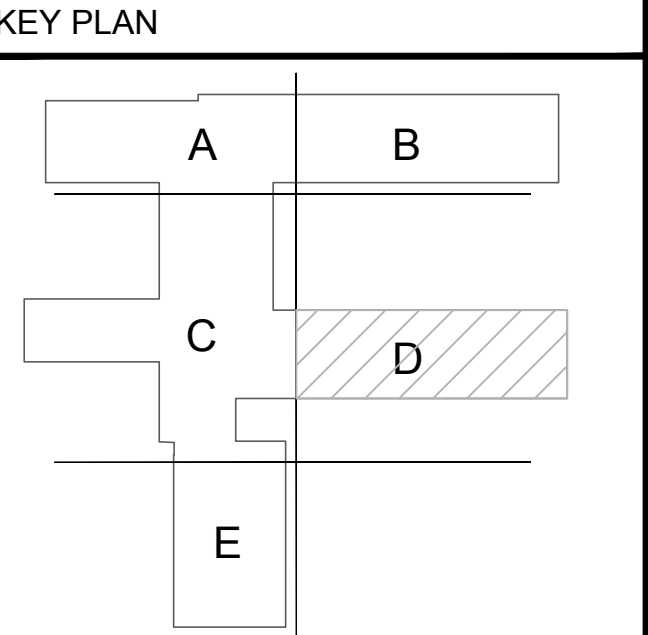


- GENERAL MECHANICAL NOTES**
- EVERY NOTE INDICATED BY SYMBOL IS NOT NECESSARILY USED ON THIS SHEET.
 - A MANUAL BALANCING DAMPER SHALL BE INSTALLED ON EACH SUPPLY AND RETURN AIR BRANCH WHETHER OR NOT IT IS SHOWN ON THE DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS.
 - MAKE RUN-OUT TO DIFFUSER OR GRILL THE SAME AS THE NECK SIZE OF THE DIFFUSER OR GRILL UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS.
 - DUCTWORK SHALL BE RUN AS HIGH AND TIGHT TO THE STRUCTURE AS POSSIBLE.
 - TEST AND BALANCE WORK SHALL BE PERFORMED BY THE DISTRICT. COORDINATE WITH THE DISTRICT TO SCHEDULE TEST AND BALANCE WORK.
 - A HOME-RUN SHALL BE PROVIDED FOR ALL NEW CONTROL WIRING. NO CONTROL WIRING SHALL BE SPLICED.
 - CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.

- NOTES INDICATED BY SYMBOL**
- ROUTE PRESSURIZED 3/4" CONDENSATE DRAIN LINE FROM UNIT TO GRAVITY CONDENSATE DRAIN LINE AS SHOWN. TERMINATE INTO THE TOP OF THE GRAVITY CONDENSATE DRAIN AT A 45 DEGREE ANGLE.
 - FURNISH AND INSTALL TERMINAL UNIT AS SCHEDULED PER MANUFACTURER RECOMMENDATIONS. CONNECT INTO EXISTING DUCTWORK SERVING EXISTING VAV UNIT REMOVED DURING DEMO PHASE OF CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DUCT SIZES THAT REQUIRE CONNECTION PRIOR TO CONSTRUCTION AND FURNISH AND INSTALL ANY TRANSITIONS NEEDED FOR A COMPLETE AND WORKING SYSTEM.
 - FURNISH AND INSTALL NEW CEILING CASSETTE AIR HANDLING UNIT PER MANUFACTURER RECOMMENDATIONS.
 - FURNISH AND INSTALL NEW WALL MOUNTED AIR HANDLING UNIT PER MANUFACTURER RECOMMENDATIONS. RECONNECT TO EXISTING CONDENSATE LINE.
 - 1/2" CONDENSATE DRAIN DOWN WALL TERMINATING INDIRECTLY INTO SINK TAILPIECE BELOW.
 - 1" CONDENSATE DRAIN DOWN WALL TERMINATING INDIRECTLY INTO SINK BELOW.
 - FURNISH AND INSTALL TERMINAL UNIT AS SCHEDULED PER MANUFACTURER RECOMMENDATIONS.
 - ROUTE PRESSURIZED 3/4" CONDENSATE DRAIN LINE FROM UNIT TO EXISTING GRAVITY CONDENSATE DRAIN LINE ABOVE CEILING AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING CONDENSATE LINE. TERMINATE INTO THE TOP OF THE GRAVITY CONDENSATE DRAIN AT A 45 DEGREE ANGLE.
 - FURNISH AND INSTALL NEW INLINE EXHAUST FAN PER DETAIL 3/M002 AND MANUFACTURER RECOMMENDATIONS.
 - 10" EXHAUST AIR DUCT TERMINATING THRU ROOF TO TO A GRAVITY VENTILATOR EQUAL TO GREENHECK GRSR-10.
 - FURNISH AND INSTALL NEW CABINET EXHAUST FAN PER DETAIL 4/M002 AND MANUFACTURER RECOMMENDATIONS.
 - 6" EXHAUST AIR DUCT TERMINATING THRU ROOF TO TO A GRAVITY VENTILATOR EQUAL TO GREENHECK GRSR-6.
 - CONNECT INTO EXISTING DUCTWORK AT THIS APPROXIMATE LOCATION AND ROUTE AS SHOWN. FIELD VERIFY EXACT LOCATION OF EXISTING DUCTWORK.
 - FURNISH AND INSTALL NEW SENSOR WITH PROTECTIVE COVER.

REVISIONS:

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JMA Project Number:
 Date: 08/09/2024
 Scale:

Sheet Title
**FLOOR PLAN
 MECHANICAL**
 Sheet Number
M203

1 FLOOR PLAN - AREA 'D' - MECHANICAL
 SCALE: 1/8" = 1'-0"



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

GENERAL MECHANICAL NOTES

1. DUCTWORK SHALL BE RUN AS HIGH AND TIGHT TO THE STRUCTURE AS POSSIBLE.
2. TEST AND BALANCE WORK SHALL BE PERFORMED BY THE DISTRICT. COORDINATE WITH THE DISTRICT TO SCHEDULE TEST AND BALANCE WORK.
3. A HOME-RUN SHALL BE PROVIDED FOR ALL NEW CONTROL WIRING. NO CONTROL WIRING SHALL BE SPLICED.
4. CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.

NOTES INDICATED BY SYMBOL

1. FURNISH AND INSTALL NEW ROOFTOP UNIT AS SCHEDULED PER MANUFACTURER RECOMMENDATIONS AND DETAIL. REUSE EXISTING ROOF PENETRATION AS MUCH AS POSSIBLE. CONNECT NEW UNIT TO EXISTING SUPPLY DUCT, RETURN DUCT, CONDENSATE DRAIN LINE, AND EXISTING GAS LINE. EXTEND PIPE AND DUCTWORK AS REQUIRED TO MAKE CONNECTION TO NEW UNIT.
2. FURNISH AND INSTALL CONDENSING UNIT PER MANUFACTURER RECOMMENDATIONS.
3. FURNISH AND INSTALL NEW HYDRONIC AIR HANDLING UNIT PER MANUFACTURER RECOMMENDATIONS.
4. FURNISH AND INSTALL GUARD RAIL ASSEMBLY PER SECTION 304.10 OF THE 2021 INTERNATIONAL MECHANICAL CODE FOR EQUIPMENT WITHIN 10' OF ROOF EDGE. GUARD RAIL SHALL EXTEND A MINIMUM OF 30" BEYOND THE END OF THE ROOFTOP UNIT AND SHALL BE A MINIMUM OF 42" FOR THE TOP RAIL WITH ANOTHER RAIL CENTERED AT 21" ABOVE THE ROOF.
5. FURNISH AND INSTALL NEW ROOFTOP UNIT AS SCHEDULED PER MANUFACTURER RECOMMENDATIONS AND DETAIL.
6. FURNISH AND INSTALL NEW ROOFTOP UNIT AS SCHEDULED PER MANUFACTURER RECOMMENDATIONS AND DETAIL. FURNISH ROOFTOP UNIT WITH MANUFACTURER'S SIDE DISCHARGE ROOF CURB. REUSE EXISTING ROOF PENETRATION AS MUCH AS POSSIBLE. CONNECT NEW UNIT TO EXISTING SUPPLY DUCT, RETURN DUCT, AND CONDENSATE DRAIN LINE. EXTEND PIPING AND DUCTWORK AS REQUIRED TO MAKE CONNECTION TO NEW ROOFTOP UNIT.
7. FURNISH AND INSTALL NEW HYDRONIC HEATING WATER COIL ON EXISTING AIR HANDLING UNIT PER MANUFACTURER RECOMMENDATIONS. AHU IS LOCATED IN MECHANICAL PENTHOUSE ACCESSED FROM THE ROOF. ROUTE NEW 1-1/2" HEATING WATER SUPPLY AND RETURN TO CONNECT TO NEW HOT WATER COIL.
8. FURNISH AND INSTALL AIR PURIFIER AS SCHEDULED PER MANUFACTURER RECOMMENDATIONS.

ARCHITECT:



13355 Noel Rd., Suite 1100, Dallas, Texas 75240
Phone: (214) 745-7070
Web Site - www.jmajohnsonarchitect.com

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CONSULTANT:

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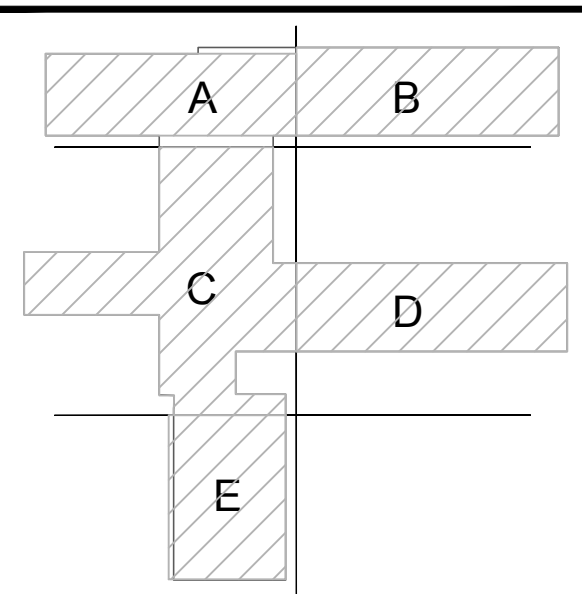
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Dallas, Texas 75231

Dallas Independent School District
2020 Bond Program
Mark Twain School for the Talented and Gifted
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KEY PLAN



JMA Project Number:

Date: 08/09/2024

Scale:

Sheet Title

ROOF PLAN
MECHANICAL

Sheet Number

M204

SIMS ENGINEERING, LLC

11703 FALSTON ROAD | SUITE 600 #114
DALLAS, TEXAS 75220 | 214.205.5571
WWW.SIMSENG.COM | REG.# 10571

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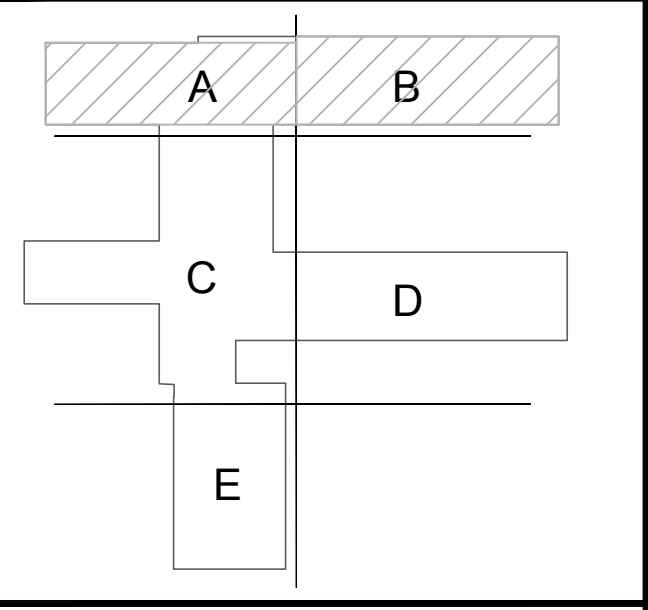
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KEY PLAN



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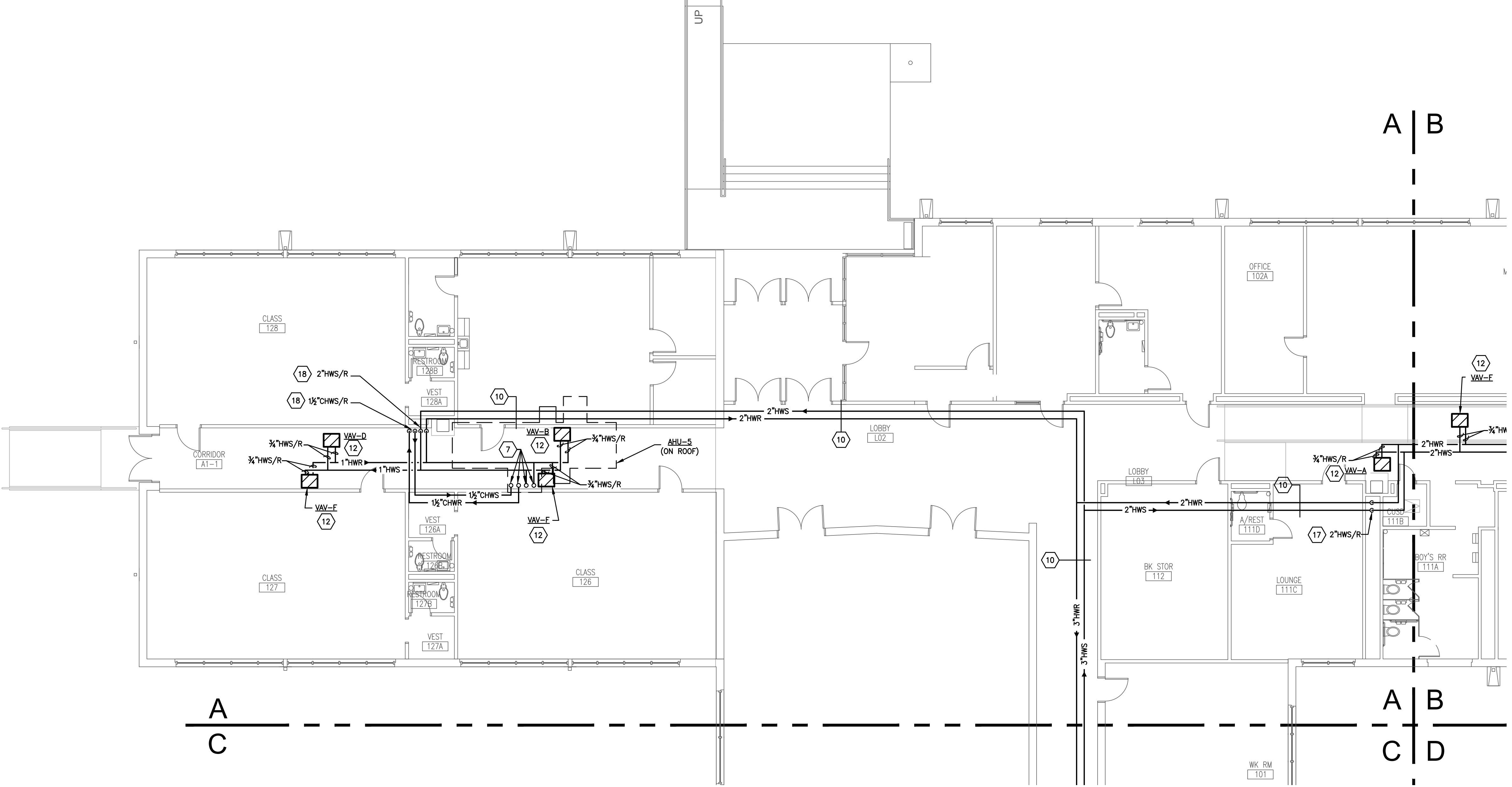
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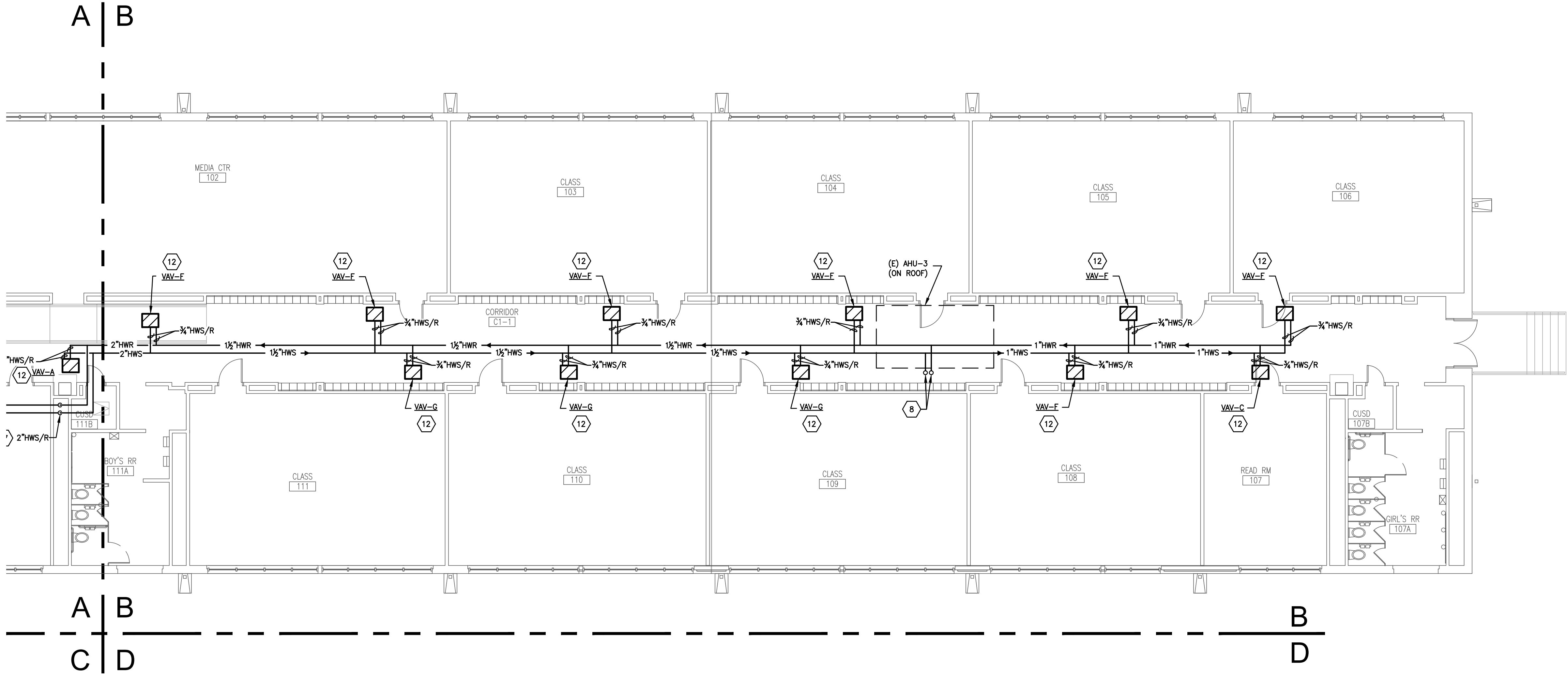
FLOOR PLAN
 MECHANICAL PIPING

Sheet Number

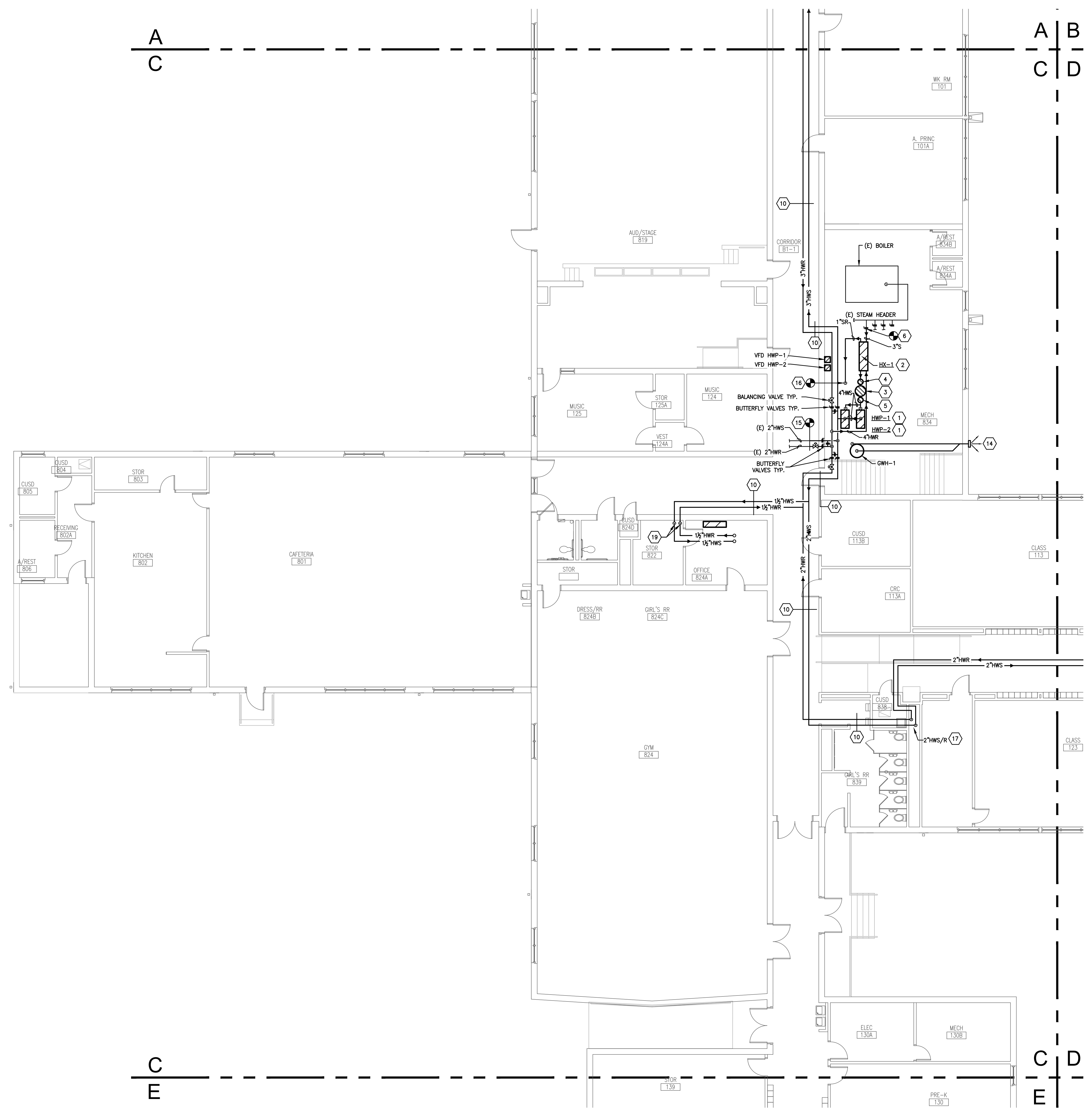
M211



1 FLOOR PLAN - AREA 'A' - MECHANICAL PIPING
 SCALE: 1/8" = 1'-0"



2 FLOOR PLAN - AREA 'B' - MECHANICAL PIPING
 SCALE: 1/8" = 1'-0"



1 FLOOR PLAN - AREA 'C' - MECHANICAL PIPING
 SCALE: 1/8" = 1'-0"

GENERAL MECHANICAL NOTES

- EVERY NOTE INDICATED BY SYMBOL IS NOT NECESSARILY USED ON THIS SHEET.
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- CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.

NOTES INDICATED BY SYMBOL

- FURNISH AND INSTALL NEW HYDRONIC WATER PUMP AND ASSOCIATED PIPING PER DETAIL 10/M002 MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL NEW HEAT EXCHANGER PER DETAIL 11/M002 AND MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL NEW EXPANSION TANK PER MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL NEW AIR SEPARATOR PER MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL NEW CHEMICAL TREATMENT STORAGE TANK PER MANUFACTURER RECOMMENDATIONS.
- CONNECT TO EXISTING STEAM HEADER WITH NEW 3" LINE AND ROUTE TO CONNECT TO HEAT EXCHANGER HT-1. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING STEAM HEADER. INSTALL HEAT EXCHANGER SUSPENDED FROM THE STRUCTURE WITHIN THE MECHANICAL ROOM.
- FURNISH AND INSTALL 1 1/2" CHWS/R AND 1 1/2" HWS/R PIPING UP THRU THE INSIDE OF THE PIPE CHASE TO AHU-5 ON ROOF ABOVE. FURNISH AND INSTALL SHUT-OFF VALVES FOR EACH LINE.
- FURNISH AND INSTALL 1 1/2" HWS/R PIPING UP TO CAP FOR FUTURE CONNECTION TO AHU-3. FURNISH AND INSTALL SHUT-OFF VALVES FOR EACH LINE.
- FURNISH AND INSTALL 1 1/2" HWS/R PIPING UP TO CAP FOR FUTURE CONNECTION TO AHU-4. FURNISH AND INSTALL SHUT-OFF VALVES FOR EACH LINE.
- CONTRACTOR SHALL ROUTE HEATING WATER SUPPLY AND RETURN WITHIN THE CRAWLSPACE IN AREAS INDICATED BY THIS NOTE.
- CONNECT NEW CHWS/R PIPING INTO EXISTING CHWS/R PIPING IN CRAWLSPACE. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING CHWS/R PIPING.
- ALL TERMINAL VAV UNITS SHALL HAVE A MINIMUM OF 3/4" HWS/R LINES TO THE COIL CONNECTION UNLESS OTHERWISE NOTED. REDUCE IN SIZE AT THE COIL HEADER. FURNISH AND INSTALL TERMINAL VAV UNIT WITH 3-WAY CONTROL VALVE PER DETAIL 8/M002 AND MANUFACTURER RECOMMENDATIONS.
- CONNECT NEW CHWS/R PIPING INTO EXISTING CHWS/R PIPING AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING CHWS/R PIPING.
- ROUTE FLUE AND INTAKE FROM NEW GAS WATER HEATER PER MANUFACTURER RECOMMENDATIONS TO TERMINATE THROUGH SIDEMALL USING MANUFACTURERS CONCENTRIC VENT TERMINATION KIT.
- CONNECT NEW 2" HEATING WATER SUPPLY AND RETURN INTO EXISTING LINES RUNNING INTO THE CRAWLSPACE SERVING THE EXISTING WING SOUTH OF THE BOILER ROOM.
- ROUTE 1" STEAM CONDENSATE RETURN LINE TO CONNECT TO EXISTING ABANDONED CONNECTION TO CONDENSATE RETURN HEADER BELOW AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION OF CONNECTION.
- CONTRACTOR SHALL ROUTE HEATING WATER SUPPLY AND RETURN PIPING OF SIZE SHOWN UP THROUGH THE CHASE AND INTO THE CEILING SPACE ABOVE THE CORRIDOR AS SHOWN.
- CONTRACTOR SHALL ROUTE CHILLED WATER AND HEATING WATER SUPPLY AND RETURN LINES AS SHOWN FROM CEILING SPACE DOWN TO THE CRAWLSPACE AT THIS LOCATION. CONTRACTOR SHALL BUILD A CHASE MATCHING THE SURROUNDING CONDITIONS AROUND THE HYDRONIC PIPING INDICATED BY THIS NOTE.
- ROUTE 1 1/2" HWS/R PIPING UP THRU THE STORAGE ROOM TO NEW HEATING WATER COIL SERVING AHU-1 IN MECHANICAL ROOM ON ROOF ABOVE. FURNISH AND INSTALL SHUT-OFF VALVES FOR EACH HYDRONIC LINE.

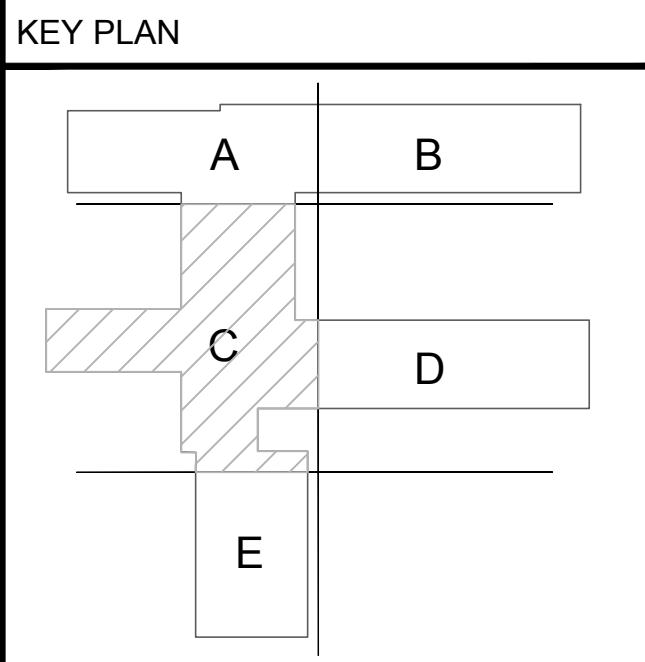
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CONSULTANT:
 OWNER'S REPRESENTATIVE:
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 9400 NORTH CENTRAL EXPRESSWAY SUITE 800
 Dallas, Texas 75231

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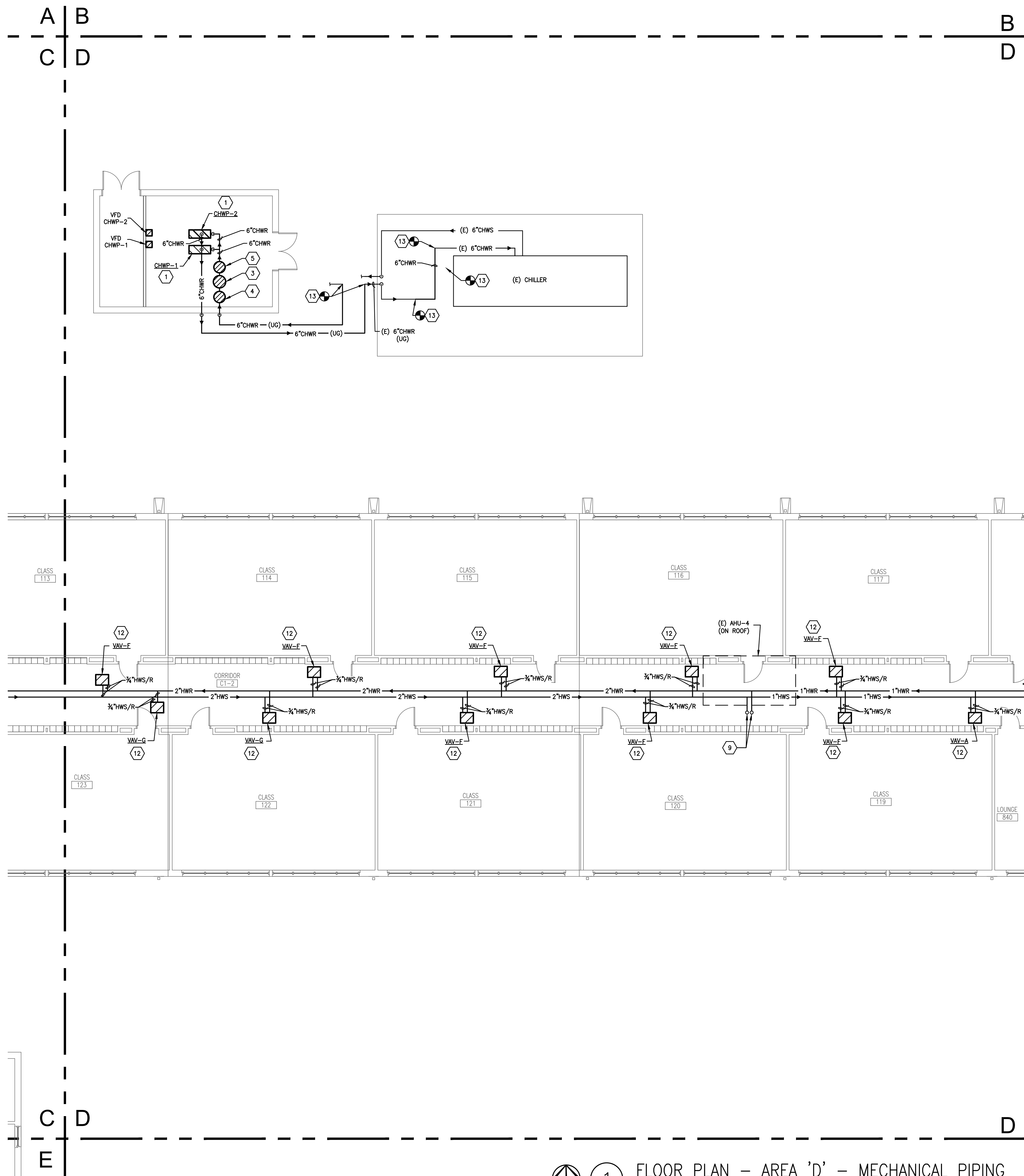


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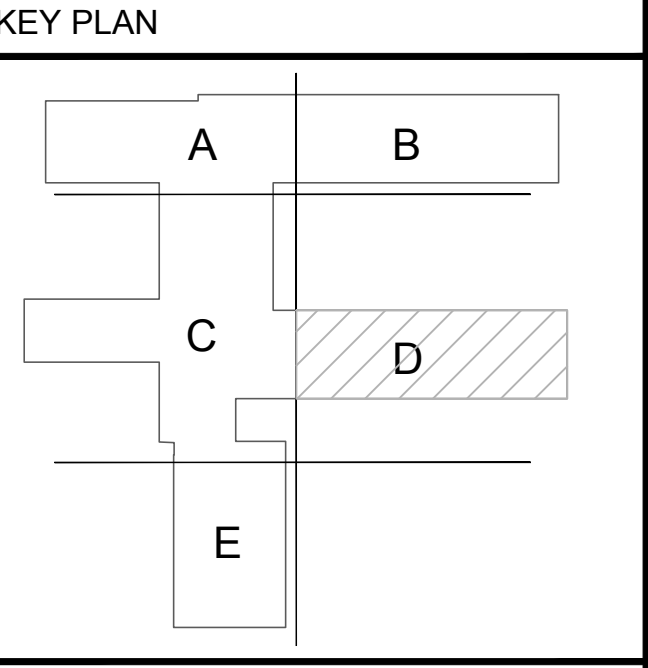


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 - FURNISH AND INSTALL NEW HEAT EXCHANGER PER DETAIL 11/M002 AND MANUFACTURER RECOMMENDATIONS.
 - FURNISH AND INSTALL NEW EXPANSION TANK PER MANUFACTURER RECOMMENDATIONS.
 - FURNISH AND INSTALL NEW AIR SEPARATOR PER MANUFACTURER RECOMMENDATIONS.
 - FURNISH AND INSTALL NEW CHEMICAL TREATMENT STORAGE TANK PER MANUFACTURER RECOMMENDATIONS.
 - CONNECT TO EXISTING STEAM HEADER WITH NEW 3/4" LINE AND ROUTE TO CONNECT TO HEAT EXCHANGER HT-1. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING STEAM HEADER. INSTALL HEAT EXCHANGER SUSPENDED FROM THE STRUCTURE WITHIN THE MECHANICAL ROOM.
 - FURNISH AND INSTALL 1 1/2" CHWS/R AND 1 1/2" HWS/R PIPING UP THRU THE INSIDE OF THE PIPE CHASE TO AHU-5 ON ROOF ABOVE. FURNISH AND INSTALL SHUT-OFF VALVES FOR EACH LINE.
 - FURNISH AND INSTALL 1 1/2" HWS/R PIPING UP TO CAP FOR FUTURE CONNECTION TO AHU-3. FURNISH AND INSTALL SHUT-OFF VALVES FOR EACH LINE.
 - FURNISH AND INSTALL 1 1/2" HWS/R PIPING UP TO CAP FOR FUTURE CONNECTION TO AHU-4. FURNISH AND INSTALL SHUT-OFF VALVES FOR EACH LINE.
 - CONTRACTOR SHALL ROUTE HEATING WATER SUPPLY AND RETURN WITHIN THE CRAWLSPACE IN AREAS INDICATED BY THIS NOTE.
 - CONNECT NEW CHWS/R PIPING INTO EXISTING CHWS/R PIPING IN CRAWLSPACE. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING CHWS/R PIPING.
 - ALL TERMINAL VAV UNITS SHALL HAVE A MINIMUM OF 3/4" HWS/R LINES TO THE COIL CONNECTION UNLESS OTHERWISE NOTED. REDUCE IN SIZE AT THE COIL HEADER. FURNISH AND INSTALL TERMINAL VAV UNIT WITH 3-WAY CONTROL VALVE PER DETAIL 8/M002 AND MANUFACTURER RECOMMENDATIONS.
 - CONNECT NEW CHWS/R PIPING INTO EXISTING CHWS/R PIPING AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING CHWS/R PIPING.
 - ROUTE FLUE AND INTAKE FROM NEW GAS WATER HEATER PER MANUFACTURER RECOMMENDATIONS TO TERMINATE THROUGH SIDEWALL USING MANUFACTURER'S CONCENTRIC VENT TERMINATION KIT.
 - CONNECT NEW 2" HEATING WATER SUPPLY AND RETURN INTO EXISTING LINES RUNNING INTO THE CRAWLSPACE SERVING THE EXISTING WING SOUTH OF THE BOILER ROOM.
 - ROUTE 1" STEAM CONDENSATE RETURN LINE TO CONNECT TO EXISTING ABANDONED CONNECTION TO CONDENSATE RETURN HEADER BELOW AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION OF CONNECTION.
 - CONTRACTOR SHALL ROUTE HEATING WATER SUPPLY AND RETURN PIPING OF SIZE SHOWN UP THROUGH THE CHASE AND INTO THE CEILING SPACE ABOVE THE CORRIDOR, AS SHOWN.
 - CONTRACTOR SHALL ROUTE CHILLED WATER AND HEATING WATER SUPPLY AND RETURN LINES AS SHOWN FROM CEILING SPACE DOWN TO THE CRAWLSPACE AT THIS LOCATION. CONTRACTOR SHALL BUILD A CHASE MATCHING THE SURROUNDING CONDITIONS AROUND THE HYDRONIC PIPING INDICATED BY THIS NOTE.
 - ROUTE 1 1/2" HWS/R PIPING UP THRU THE STORAGE ROOM TO NEW HEATING WATER COIL SERVING AHU-1 IN MECHANICAL ROOM ON ROOF ABOVE. FURNISH AND INSTALL SHUT-OFF VALVES FOR EACH HYDRONIC LINE.

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JMA Project Number:
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 Sheet Title
**FLOOR PLAN
 MECHANICAL PIPING**
 Sheet Number
M213

1 FLOOR PLAN - AREA 'D' - MECHANICAL PIPING
 SCALE: 1/8" = 1'-0"

| DALLAS ISD - LIGHTING FIXTURE SCHEDULE | | |
|---|---------------------------------------|---|
| FIXTURE ID | LAMPS | DESCRIPTION |
| A1 | 28W LED 4000K 3300 LUMENS | 2 X 2 RECESSED GRID LAYIN |
| | | DRIVER(S): 1 - 0-10v DIMMING DRIVER, <10% THD, CORRIDOR LTS W/STEP DIM |
| | | VOLTAGE: 120/277 |
| | | INSTALLATION: RECESSED LAY-IN GRID |
| | | DESIGN BASIS: LITHONIA 2GTL-2 - 33L - A12125 - GZ10 - LP840 |
| OTHER MANUFACTURERS: COLUMBIA, DAYBRITE, METALUX | | |
| A2 | 36W LED 4000K 4800 LUMENS | 2 X 4 RECESSED GRID LAYIN |
| | | DRIVER(S): 1 - 0-10v DIMMING DRIVER, <10% THD, CORRIDOR LTS W/STEP DIM |
| | | VOLTAGE: 120/277 |
| | | INSTALLATION: RECESSED LAY-IN GRID |
| | | DESIGN BASIS: LITHONIA 2GTL-4 - 48L - A12125 - GZ10 - LP840 |
| OTHER MANUFACTURERS: COLUMBIA, DAYBRITE, METALUX | | |
| B | 33W LED 4000K 1000 LUMENS | 4' LINEAR VANDAL RESISTANT SURFACE CANOPY LED |
| | | DRIVER(S): 1 - 0-10v DIMMING DRIVER, <10% THD |
| | | VOLTAGE: 120/277 |
| | | INSTALLATION: RECESSED CEILING |
| | | DESIGN BASIS: LITHONIA# VAP -4000LM-FST-WD-MVOLT-GZ20-40K-80CRI |
| OTHER MANUFACTURERS: COLUMBIA, DAYBRITE, METALUX | | |
| D/DE | 59W LED 4000K 5000 LUMENS | 8" RECESSED SQUARE LED DAMP LOCATION DOWNLIGHT "DE" WITH EMERGENCY BATTERY |
| | | DRIVER(S): 1 - 0-10v DIMMING DRIVER, <10% THD |
| | | VOLTAGE: 120/277 |
| | | INSTALLATION: RECESSED CEILING |
| | | DESIGN BASIS: LITHONIA# LDNSQ-50LM-40K-LS8-AR-LS5-MVOLT-E10WCP |
| OTHER MANUFACTURERS: COLUMBIA, DAYBRITE, METALUX | | |
| EM | LED (INCLUDED) | LED INTERIOR EMERGENCY EGRESS LIGHTING FIXTURE, NI-CAD BATTERY FOR 90 MINUTES OF EMERGENCY OPERATION UPON LOSS OF FORMAL POWER, WHITE THERMOPLASTIC HOUSING. U.L. LISTED FOR INDOOR DAMP LOCATIONS, SELF-DIAGNOSTICS INCLUDED |
| | | DRIVER(S): N/A |
| | | VOLTAGE: 120/277 |
| | | INSTALLATION: SURFACE WALL |
| | | DESIGN BASIS: LITHONIA #EJ2C-SD |
| OTHER MANUFACTURERS: DUAL-LITE, MCPHILBEN, SURE-LITES | | |
| X | LED (INCLUDED) | LED INTERIOR EMERGENCY EXIT SIGN, NI-CAD BATTERY FOR 90 MINUTES OF EMERGENCY OPERATION UPON LOSS OF FORMAL POWER, RED LETTERING, WHITE THERMOPLASTIC HOUSING. U.L. LISTED FOR INDOOR DAMP LOCATIONS, SELF-DIAGNOSTICS INCLUDED, FACES & ARROWS PER DRAWINGS |
| | | DRIVER(S): N/A |
| | | VOLTAGE: 120/277 |
| | | INSTALLATION: SURFACE WALL/CEILING |
| | | DESIGN BASIS: LITHONIA #LQDM-W-1-R-EL-N-SD |
| OTHER MANUFACTURERS: DUAL-LITE, MCPHILBEN, SURE-LITES | | |
| S1/S2A/S2B | 179 WATT LED 4000K 23368 LUMENS | FORWARD THROW DISTRIBUTION ON EXISTING POLE S1-SINGLE HEAD, S2A-TWO @90, S2B 2@180 |
| | | DRIVER(S): 1 - 0-10v DIMMING DRIVER, <10% THD |
| | | VOLTAGE: 120/277 |
| | | INSTALLATION: POLE LIGHT |
| | | DESIGN BASIS: LITHONIA# DSX2 LED P2 40K 80CRI TFTM MVOLT DDBXD UNIVERSAL BRACKET FOR EXISTING POLE |
| OTHER MANUFACTURERS: PHILIPS, CREE, EATON | | |
| S3 | 179 WATT LED 4000K 23368 LUMENS | FORWARD THROW DISTRIBUTION ON NEW POLE |
| | | DRIVER(S): 1 - 0-10v DIMMING DRIVER, <10% THD |
| | | VOLTAGE: 120/277 |
| | | INSTALLATION: POLE LIGHT |
| | | DESIGN BASIS: LITHONIA# DSX2 LED P2 40K 80CRI TFTM MVOLT DDBXD |
| OTHER MANUFACTURERS: PHILIPS, CREE, EATON | | |
| WP/WPE | 25W LED 4000K 3000 LUMENS | EXTERIOR EMERGENCY WALL PACK VIA TIMECLOCK & PHOTOCELL CONTROL WPE=EM BATTERY |
| | | DRIVER(S): 1 - 0-10v DIMMING DRIVER, <10% THD |
| | | VOLTAGE: 120/277 |
| | | INSTALLATION: SURFACE WALL |
| | | DESIGN BASIS: LITHONIA WST LED P2 40K VF MVOLT (E7WC) DBXD |
| OTHER MANUFACTURERS: COLUMBIA, DAYBRITE, METALUX | | |

| OCCUPANCY SENSOR SCHEDULE - ACCEPTABLE MANUFACTURERS ARE NLIGHT, NEXTLIGHT, ILC AND ECHOFLX | | | |
|---|---------------|------------------------------|---------|
| LABEL | MANUFACTURER | MODEL NO. | VOLTAGE |
| I | ILC | ILC-SWX-123-WH | 120V |
| | nLight | nWBKA-PDT-LV | 24V |
| | Echoflex | US-DOCC-SM1-S | 120V |
| I ^W | ILC | ILC-SWX-123-WH | 120V |
| | nLight | nWBKA-PDT-LV | 24V |
| | Echoflex | US-DOCC-SM1-S | 120V |
| I ^D | ILC | ILC-SWX-123-D-WH | 120V |
| | nLight | nWBKA-PDT-LV-DX | 24V |
| | Echoflex | US-DOCC-SM1-D-S | 120V |
| I ^W ₂ | ILC | ILC-SWX-221-1 | 24V |
| | nLight | nCM-PDT-2 | 24V |
| | Echoflex | E-DOCC-SF | 24V |
| I ^W ₃ | ILC | ILC-SWX-222-1 | 24V |
| | nLight | nQBL-PDT-1B | 24V |
| | Echoflex | E-DOCC-LR | 24V |
| I ^W ₄ | ILC | ILC-SWX-402-1 (Wall Mount) | 24V |
| | Sensor Switch | CM-PDT-11 (Ceiling Mount) | 24V |
| | Echoflex | EQDVAC-W-NR (Wall Mount) | 24V |
| I ^W ₅ | ILC | ILC-SWX-223-1 | 24V |
| | nLight | nCM-PDT-1B | 24V |
| | Echoflex | E-DOCC-HS | 24V |
| I ^W ₆ | ILC | ILC-SWX-122-WH | 120V |
| | Sensor Switch | WSX-PDT-2PFA-WH | 120V |
| | Echoflex | US-DOCC-SM2-S | 120V |
| I ^W ₇ | ILC | ILC-SWX-233-D | 24V |
| | nLight | nCM-PDT-6-AD02 | 24V |
| | Echoflex | E-DOCC-HS-W-ELSC Sensor | 24V |
| I ^W ₈ | ILC | ILC-SWX-421-1 | 24V |
| | nLight | nWV-PDT-16-KIT | 24V |
| | Echoflex | E-DOCC-W-WD | 24V |
| S | ILC | ILC-SWX-801-WH | 24V |
| | nLight | nPODMA | 24V |
| | Echoflex | E1001 | 24V |
| D | ILC | ILC-SWX-803-WH | 24V |
| | nLight | nPODMA-xx-DX | 24V |
| | Echoflex | E1004 (On/Off/Raise/Lower) | 24V |
| KP | ILC | ILC1803 Series | 24V |
| | nLight | nPODM Series | 24V |
| | Echoflex | E1000 & 1100 Control Station | 24V |
| PP | ILC | ILC-SWX-900-AX | Multi |
| | nLight | nPP160 | Multi |
| | Echoflex | ERN04-G2 | Multi |
| PS | ILC | PS-IND | 24V |
| | Sensor Switch | nCM-AC0X | 24V |
| | Echoflex | EL-02 | 24V |
| T | ILC | ILC-SWX-843-12H-WH | 120V |
| | Sensor Switch | PTBA-720 | 120V |
| | Echoflex | TS-300 | 120V |

- NOTES:
- Provide all power packs, relays, and devices necessary for a complete functioning system.
 - All ceiling mounted sensors shall be over 5'-0" away from HVAC diffusers.
 - Sensors in bathrooms and corridors shall be set to "full on" when occupancy is detected.
 - Small motion sensors in offices, building support/function spaces, classrooms, etc. shall be set to vacancy requiring manual on.

ARCHITECT:



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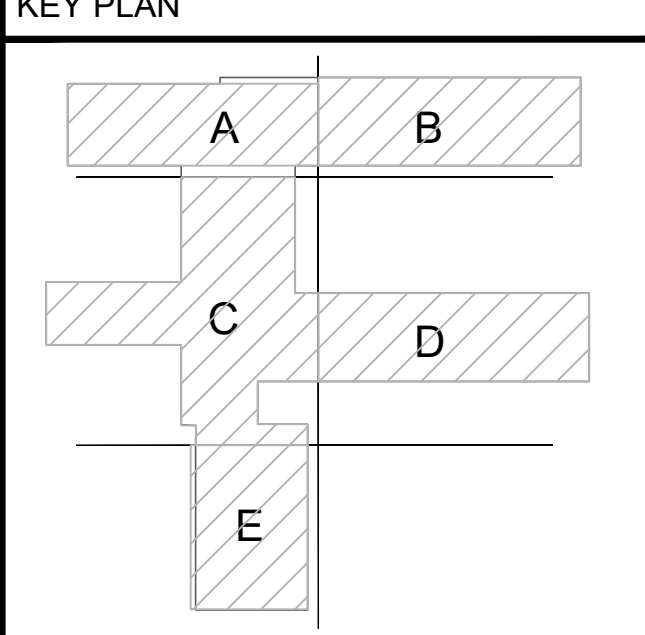
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ELECTRICAL DETAILS & SCHEDULES
Sheet Number
E002

ARCHITECT:



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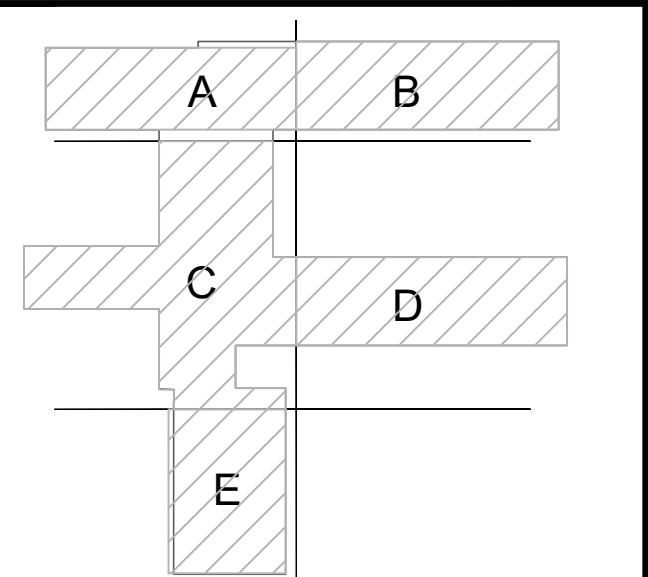
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KEY PLAN



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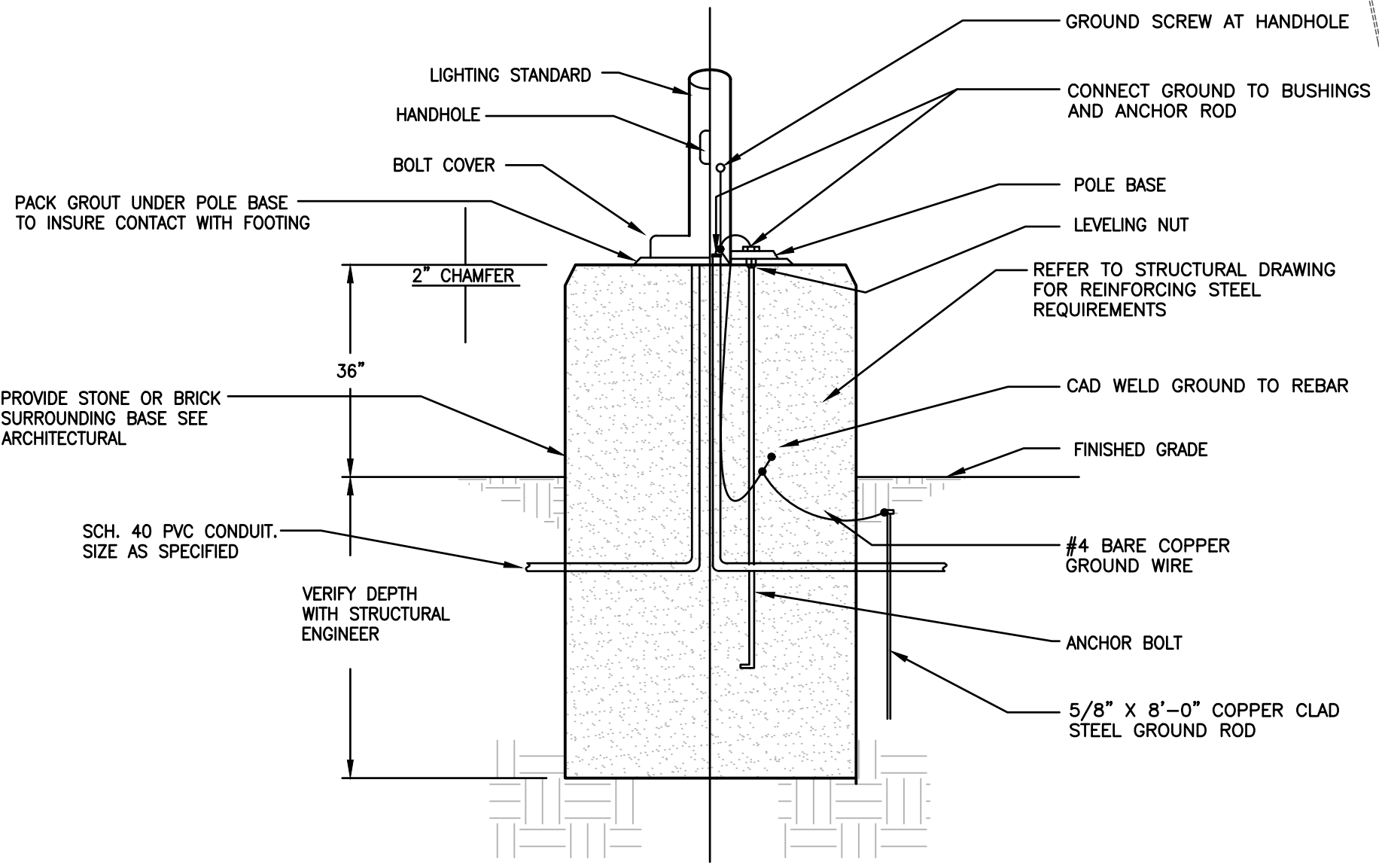
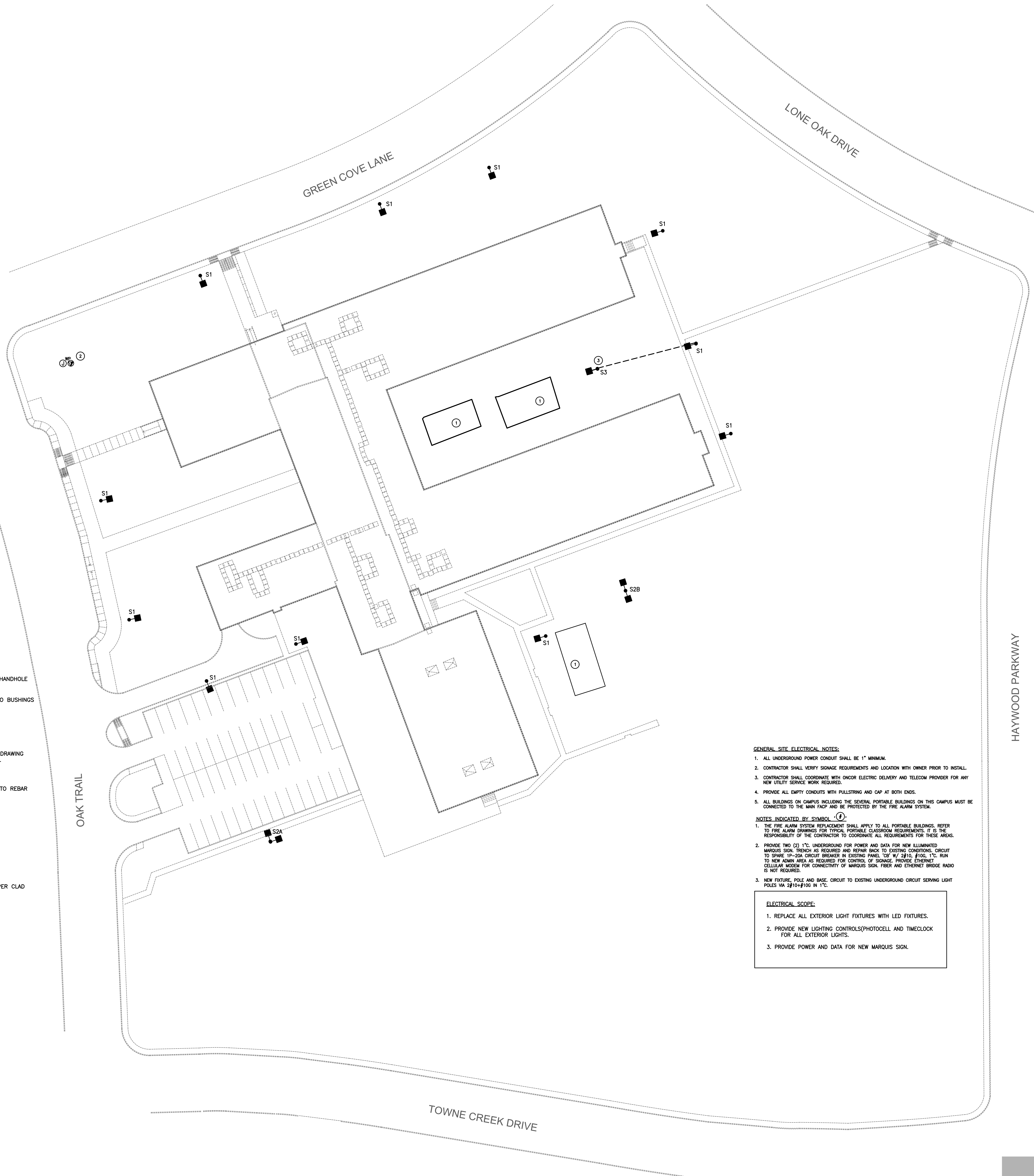
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Sheet Title

SITE PLAN
ELECTRICAL

Sheet Number

E100

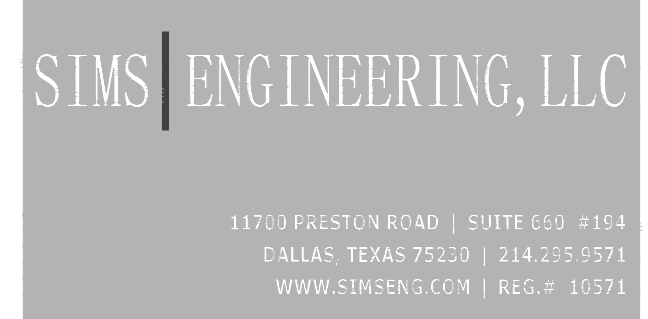


2 POLE BASE DETAIL
SCALE: NONE

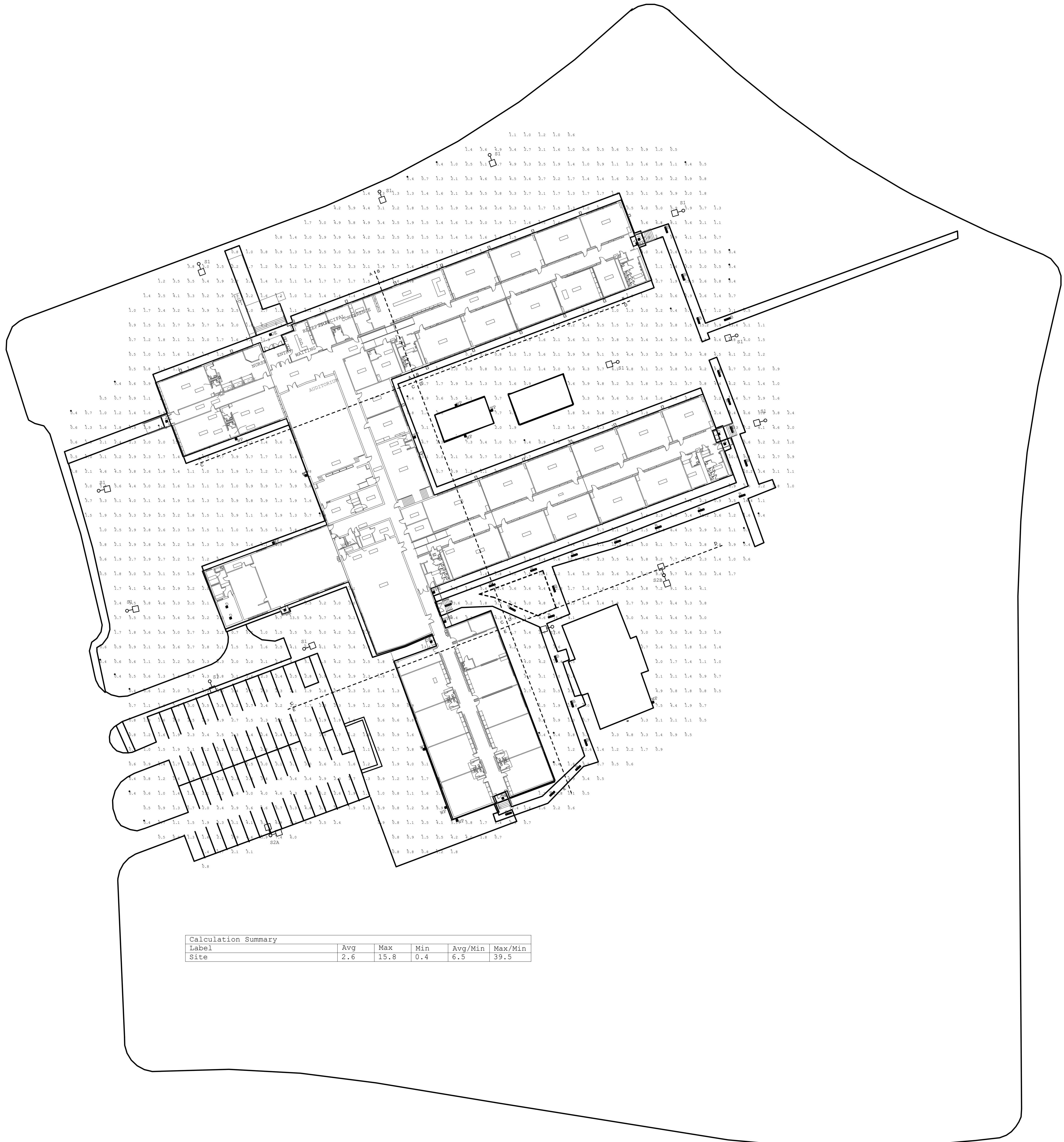
- GENERAL SITE ELECTRICAL NOTES:
1. ALL UNDERGROUND POWER CONDUIT SHALL BE 1" MINIMUM.
 2. CONTRACTOR SHALL VERIFY SIGNAGE REQUIREMENTS AND LOCATION WITH OWNER PRIOR TO INSTALL.
 3. CONTRACTOR SHALL COORDINATE WITH ONCOR ELECTRIC DELIVERY AND TELECOM PROVIDER FOR ANY NEW UTILITY SERVICE WORK REQUIRED.
 4. PROVIDE ALL EMPTY CONDUITS WITH PULLSTRING AND CAP AT BOTH ENDS.
 5. ALL BUILDINGS ON CAMPUS INCLUDING THE SEVERAL PORTABLE BUILDINGS ON THIS CAMPUS MUST BE CONNECTED TO THE MAIN FACP AND BE PROTECTED BY THE FIRE ALARM SYSTEM.
- NOTES INDICATED BY SYMBOL (C):
1. THE FIRE ALARM SYSTEM REPLACEMENT SHALL APPLY TO ALL PORTABLE BUILDINGS. REFER TO FIRE ALARM DRAWINGS FOR TYPICAL PORTABLE CLASSROOM REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL REQUIREMENTS FOR THESE AREAS.
 2. PROVIDE TWO (2) 1/2" UNDERGROUND FOR POWER AND DATA FOR NEW ILLUMINATED MARQUIS SIGN. TRENCH AS REQUIRED AND REPAIR BACK TO EXISTING CONDITIONS. CIRCUIT TO SHOME 10-20A CIRCUIT BREAKER IN EXISTING PANEL 100 W/ 20'10" FIBR. 1/2" RUN TO NEW ADMIN AREA AS REQUIRED FOR CONTROL OF SIGNAGE. PROVIDE ETHERNET/CELLULAR MODEM FOR CONNECTIVITY OF MARQUIS SIGN. FIBER AND ETHERNET BRIDGE RADIO IS NOT REQUIRED.
 3. NEW FIXTURE, POLE AND BASE. CIRCUIT TO EXISTING UNDERGROUND CIRCUIT SERVING LIGHT POLES VIA 2/10-100 W 1/2".

- ELECTRICAL SCOPE:
1. REPLACE ALL EXTERIOR LIGHT FIXTURES WITH LED FIXTURES.
 2. PROVIDE NEW LIGHTING CONTROLS(PHOTOCELL AND TIMECLOCK FOR ALL EXTERIOR LIGHTS.
 3. PROVIDE POWER AND DATA FOR NEW MARQUIS SIGN.

1 SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"



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DALLAS, TEXAS 75220 | 214.215.5571
WWW.SIMSENG.COM | REG.# 10571



1

SITE PLAN - ELECTRICAL
SCALE: 1" = 30'-0"

SIMS ENGINEERING, LLC
11703 FREESTON ROAD | SUITE 200 - 2104
DALLAS, TEXAS 75220 | 214.215.9771
WWW.SIMSENG.COM | REG. # 10571

ARCHITECT:
jma
johnson
ARCHITECTS
13355 Noel Rd., Suite 1100, Dallas, Texas 75240
Phone: (214) 745-7070
Web Site - www.jmjohnsonarchitect.com

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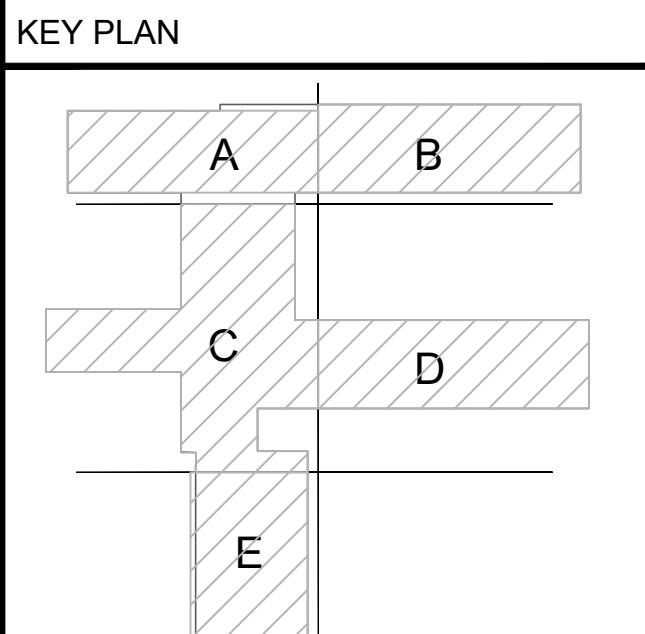
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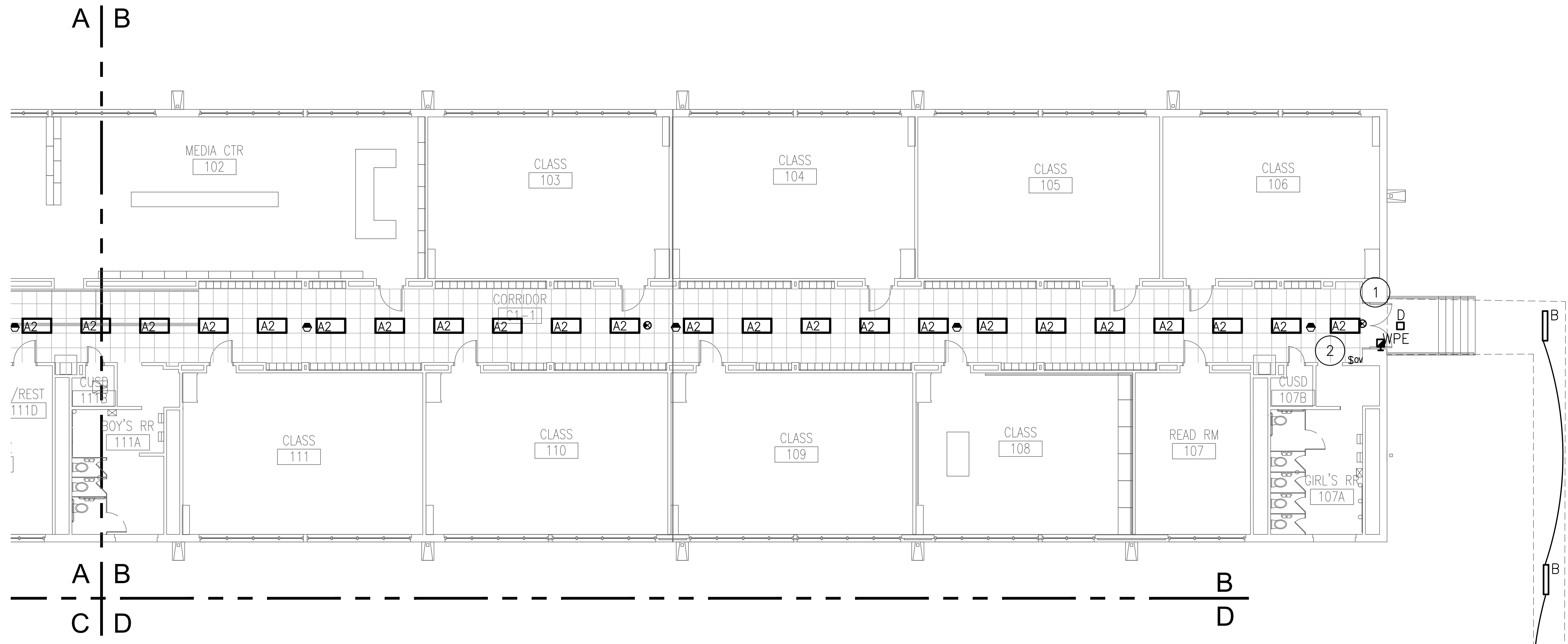
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Date: 08/09/2024

Scale:
Sheet Title
SITE PHOTOMETRIC CALCULATIONS

Sheet Number
E101



1 FLOOR PLAN - AREA 'A' - LIGHTING
SCALE: 1/8" = 1'-0"



2 FLOOR PLAN - AREA 'B' - LIGHTING
SCALE: 1/8" = 1'-0"

LIGHTING NOTES INDICATED BY SYMBOL "#"

- CIRCUIT NEW LIGHT EXTERIOR LIGHT FIXTURES TO EXISTING 1P-20A CIRCUIT BREAKER IN THIS AREA W/ 2#12, #12G, 3/4". PROVIDE NEW TIMECLOC AND PHOTOCELL CONTROL.
- HOMERUNS WITH THIS NOTE INDICATES NEW LIGHTING FIXTURES ARE TO BE CONNECTED TO THE EXISTING LIGHTING BRANCH CIRCUIT SERVING THIS AREA, MADE AVAILABLE BY DEMOLITION OF OLD LIGHTING FIXTURES. NEW LIGHTING FIXTURES SHALL BE CONNECTED TO THE RESPECTIVE EXISTING LIGHTING BRANCH CIRCUIT WITH 3/4"C-2#12, 1#12G, MINIMUM.
- FIELD VERIFY EXACT LOCATION OF ALL EMERGENCY BATTERY PACK FIXTURES AND EXIT SIGNS WITH MILLWORK, LOCKERS AND OTHER EQUIPMENT TO PROVIDE PROPER OPERATION. TYPICAL MOUNTING HEIGHT SHALL BE APPROXIMATELY 7.5' AFF. COORDINATE WITH ARCHITECT IF THIS IS NOT FEASIBLE FOR A SPECIFIC LOCATION. ALL EMERGENCY BATTERY PACK LIGHTING FIXTURES SHALL BE CONNECTED TO THE UNSWITCHED HOMERUN OF THE RESPECTIVE EXISTING LIGHTING BRANCH CIRCUIT WITH 3/4"C-2#12, 1#12G, MINIMUM, FOR CONSTANT POWER TO BACKUP BATTERIES. FIXTURE SHALL ILLUMINATE ONLY UPON LOSS OF POWER TO THE LIGHTING BRANCH CIRCUIT.
- PROVIDE FOUR BUTTON SWITCH FOR SEPARATE CONTROLS FOR EACH ZONE WITH DIMMING, ON/OFF BUTTONS.
- CONNECT TO NEW EXTERIOR LIGHTING CIRCUIT SERVED BY NEW 20A/1P BRANCH CIRCUIT VIA 2#12+1#12G IN 3/4"C VIA TIMECLOCK AND PHOTOCELL CONTROL.

GENERAL LIGHTING NOTES (APPLIES TO ALL SHEETS):

- COORDINATE MOUNTING HEIGHTS AND AIMING OF ALL LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS, RCP, AND ADA REQUIREMENTS PRIOR TO INSTALLATION.
- LIGHTING FIXTURES WITH INTEGRAL EMERGENCY BATTERY PACK ARE INDICATED AS HALF-SHADED OR CROSS-HATCHED. THESE FIXTURES SHALL BE WIRED SUCH THAT THEY CAN BE CONTROLLED AS INDICATED, BUT WILL ILLUMINATE FULLY DURING A LOSS OF POWER.
- EMERGENCY EXIT SIGNS SHALL BE TYPE 'EX', UNLESS OTHERWISE NOTED. ALL EXITS SHALL BE CONNECTED TO THE UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT FOR CONSTANT ILLUMINATION.
- EMERGENCY "BUG EYE" TYPE FIXTURES SHALL BE TYPE "EM", UNLESS OTHERWISE NOTED. ALL EMERGENCY FIXTURES SHALL BE CONNECTED TO THE UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT FOR CONSTANT POWER TO THE BATTERY, BUT SHALL ONLY ILLUMINATE DURING AN EMERGENCY UNLESS OTHERWISE INDICATED.
- ALL LIGHT SWITCHES, DIMMERS, AND WALL MOUNTED SWITCH/OCCUPANCY SENSORS SHALL BE MOUNTED 48" AFF TO TOP OF FIXTURE UNLESS OTHERWISE NOTED.
- ALL DIMMER SWITCHES SHALL BE PROVIDED WITH 100% NEUTRAL AND SHALL BE COMPATIBLE WITH OCCUPANCY SENSORS, POWER PACKS, PHOTOELECTRIC CONTROLS, AND LED DRIVERS.
- LIGHT FIXTURES UTILIZED IN FOOD PREP AREAS SHALL BE PROVIDED SHIELDED OR SHATTER RESISTANT.
- ALL MULTI-GANG SWITCH BANKS SHALL BE PROVIDED WITH A COMMON COVERPLATE.
- COORDINATE MOUNTING HEIGHT OF ALL EXTERIOR BUILDING MOUNTED FIXTURES AND SIGNS WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL OCCUPANCY SENSORS IN ALL AREAS EXCEPT CORRIDORS, SHALL BE PROGRAMMED TO DEACTIVATE LIGHTS AFTER 20MIN OF INACTIVITY.

ARCHITECT:

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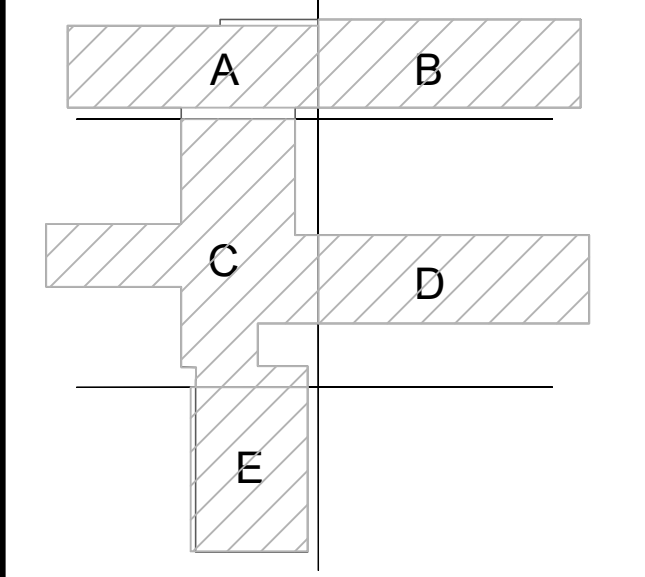
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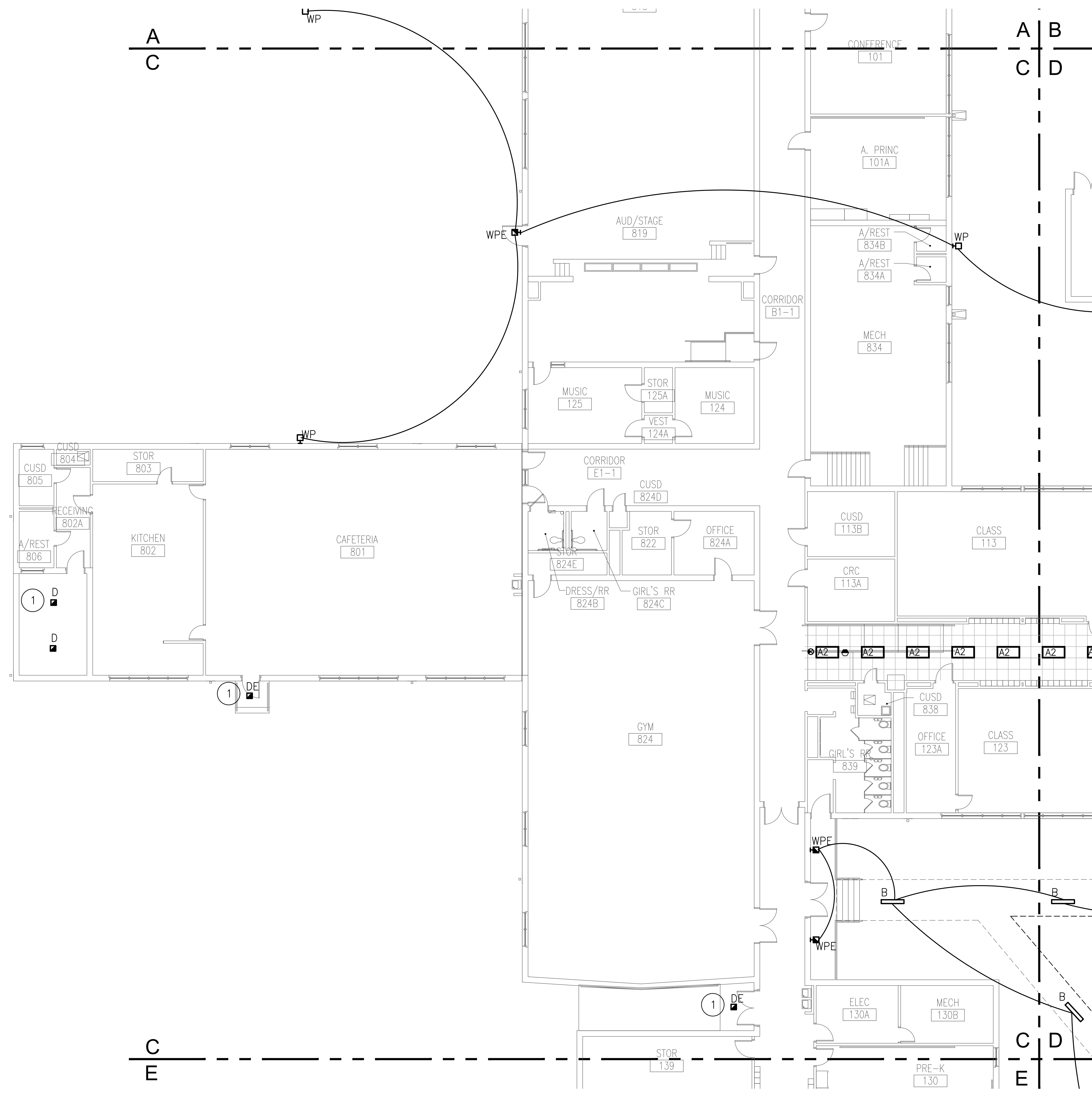
Sheet Title

FLOOR PLAN LIGHTING

Sheet Number

E201

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 11703 FORTSON ROAD | SUITE 606 #114
 DALLAS, TEXAS 75220 | 214.235.5571
 WWW.SIMSENG.COM | REG.# 11571



- LIGHTING NOTES INDICATED BY SYMBOL "1"
- CIRCUIT NEW LIGHT EXTERIOR LIGHT FIXTURES TO EXISTING 1P-20A CIRCUIT BREAKER IN THIS AREA W/ 2#12, #12G, 3/4"C. PROVIDE NEW TIMECLOCK AND PHOTOCELL CONTROL.
 - HOMERUNS WITH THIS NOTE INDICATES NEW LIGHTING FIXTURES ARE TO BE CONNECTED TO THE EXISTING LIGHTING BRANCH CIRCUIT SERVING THIS AREA, MADE AVAILABLE BY DEMOLITION OF OLD LIGHTING FIXTURES. NEW LIGHTING FIXTURES SHALL BE CONNECTED TO THE RESPECTIVE EXISTING LIGHTING BRANCH CIRCUIT WITH 3/4"C-2#12, 1#12G, MINIMUM.
 - FIELD VERIFY EXACT LOCATION OF ALL EMERGENCY BATTERY PACK FIXTURES AND EXIT SIGNS WITH MILLWORK, LOCKERS AND OTHER EQUIPMENT TO PROVIDE PROPER OPERATION. TYPICAL MOUNTING HEIGHT SHALL BE APPROXIMATELY 7.5' AFF. COORDINATE WITH ARCHITECT IF THIS IS NOT FEASIBLE FOR A SPECIFIC LOCATION. ALL EMERGENCY BATTERY PACK LIGHTING FIXTURES SHALL BE CONNECTED TO THE UNSWITCHED HOMERUN OF THE RESPECTIVE EXISTING LIGHTING BRANCH CIRCUIT WITH 3/4"C-2#12, 1#12G, MINIMUM, FOR CONSTANT POWER TO BACKUP BATTERIES. FIXTURE SHALL ILLUMINATE ONLY UPON LOSS OF POWER TO THE LIGHTING BRANCH CIRCUIT.
 - PROVIDE FOUR BUTTON SWITCH FOR SEPARATE CONTROLS FOR EACH ZONE WITH DIMMING, ON AND OFF BUTTONS.
 - CONNECT TO NEW EXTERIOR LIGHTING CIRCUIT SERVED BY NEW 20A/1P BRANCH CIRCUIT VIA 2#12+1#12G IN 3/4"C VIA TIMECLOCK AND PHOTOCELL CONTROL.

1 FLOOR PLAN - AREA 'C' - LIGHTING
SCALE: 1/8" = 1'-0"

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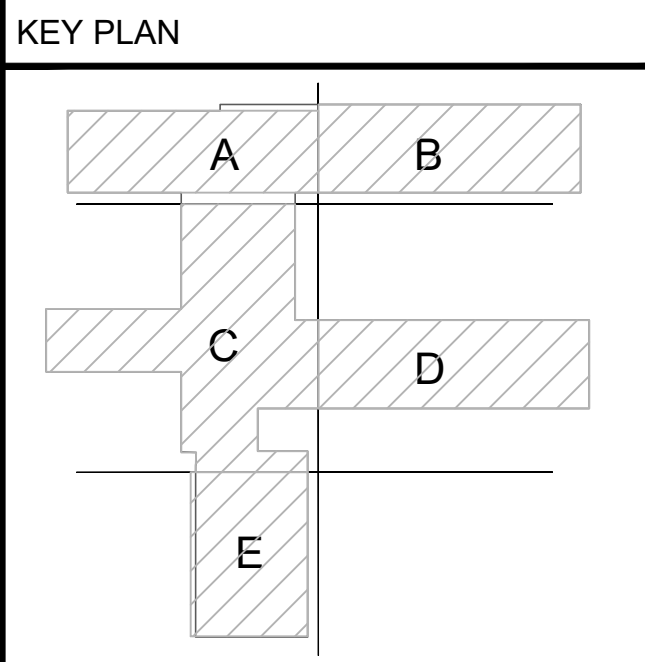
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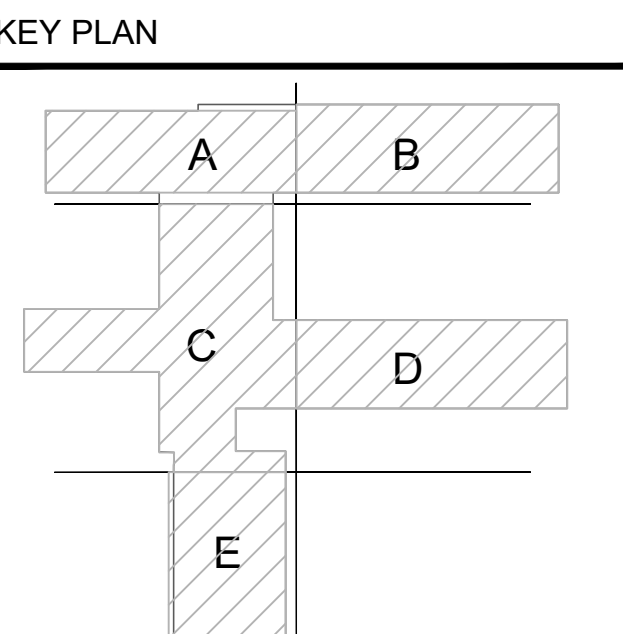
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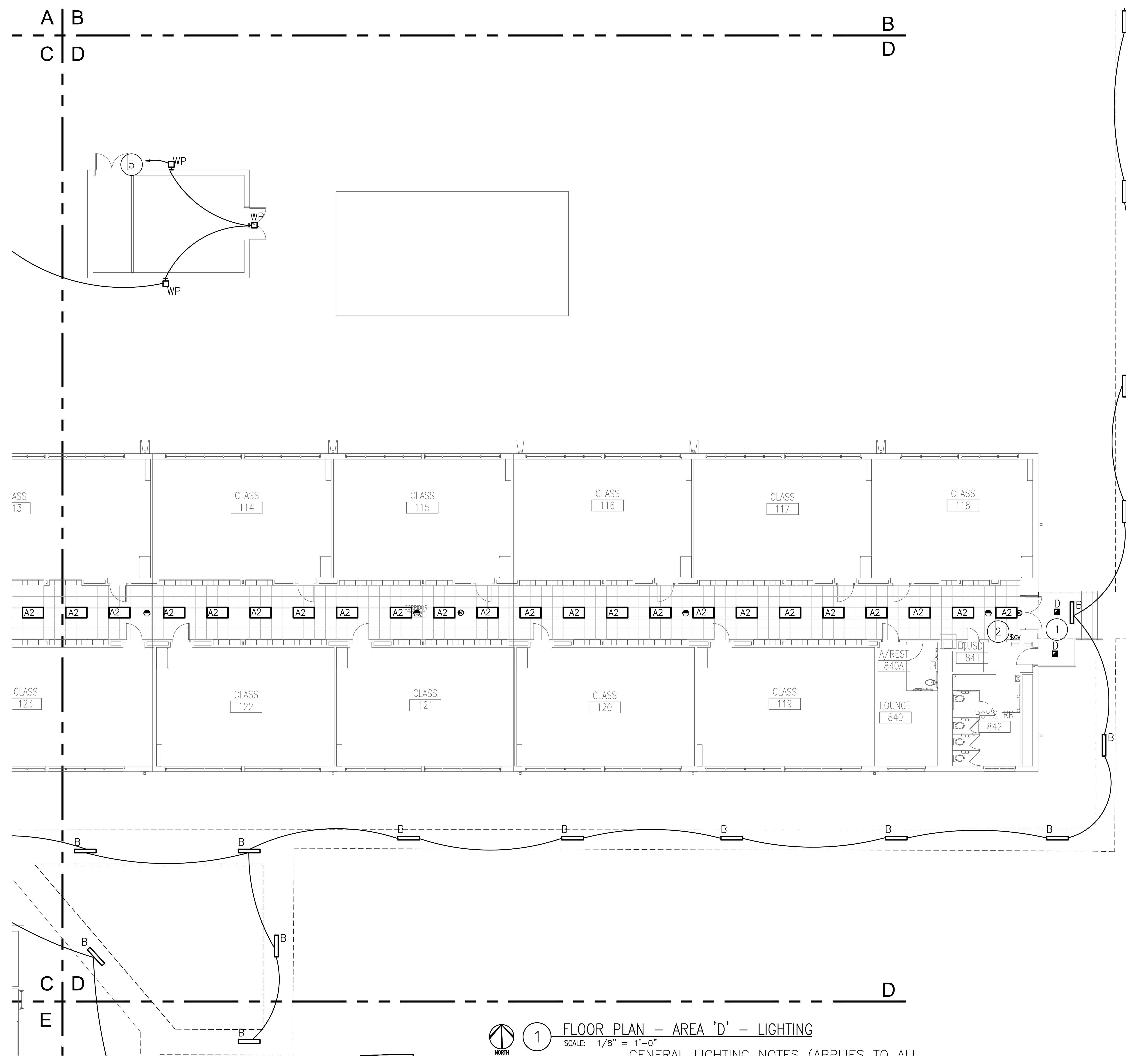
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 Sheet Title
FLOOR PLAN LIGHTING
 Sheet Number
E203



- LIGHTING NOTES INDICATED BY SYMBOL "#"
1. CIRCUIT NEW LIGHT EXTERIOR LIGHT FIXTURES TO EXISTING 1P-20A CIRCUIT BREAKER IN THIS AREA W/ 2#12, #12G, 3/4"C. PROVIDE NEW TIMECLOCK AND PHOTOCELL CONTROL.
 2. HOMERUNS WITH THIS NOTE INDICATES NEW LIGHTING FIXTURES ARE TO BE CONNECTED TO THE EXISTING LIGHTING BRANCH CIRCUIT SERVING THIS AREA, MADE AVAILABLE BY DEMOLITION OF OLD LIGHTING FIXTURES. NEW LIGHTING FIXTURES SHALL BE CONNECTED TO THE RESPECTIVE EXISTING LIGHTING BRANCH CIRCUIT WITH 3/4"C-2#12, 1#12G, MINIMUM.
 3. FIELD VERIFY EXACT LOCATION OF ALL EMERGENCY BATTERY PACK FIXTURES AND EXIT SIGNS WITH MILLWORK, LOCKERS AND OTHER EQUIPMENT TO PROVIDE PROPER OPERATION. TYPICAL MOUNTING HEIGHT SHALL BE APPROXIMATELY 7.5' AFF. COORDINATE WITH ARCHITECT IF THIS IS NOT FEASIBLE FOR A SPECIFIC LOCATION. ALL EMERGENCY BATTERY PACK LIGHTING FIXTURES SHALL BE CONNECTED TO THE UNSWITCHED HOMERUN OF THE RESPECTIVE EXISTING LIGHTING BRANCH CIRCUIT WITH 3/4"C-2#12, 1#12G, MINIMUM. FOR CONSTANT POWER TO BACKUP BATTERIES. FIXTURE SHALL ILLUMINATE ONLY UPON LOSS OF POWER TO THE LIGHTING BRANCH CIRCUIT.
 4. PROVIDE FOUR BUTTON SWITCH FOR SEPARATE CONTROLS FOR EACH ZONE WITH DIMMING, ON AND OFF BUTTONS.
 5. CONNECT TO NEW EXTERIOR LIGHTING CIRCUIT SERVED BY NEW 20A/1P BRANCH CIRCUIT VIA 2#12+1#12G IN 3/4"C VIA TIMECLOCK AND PHOTOCELL CONTROL.


1 FLOOR PLAN - AREA 'D' - LIGHTING
 SCALE: 1/8" = 1'-0"
 GENERAL LIGHTING NOTES (APPLIES TO ALL)

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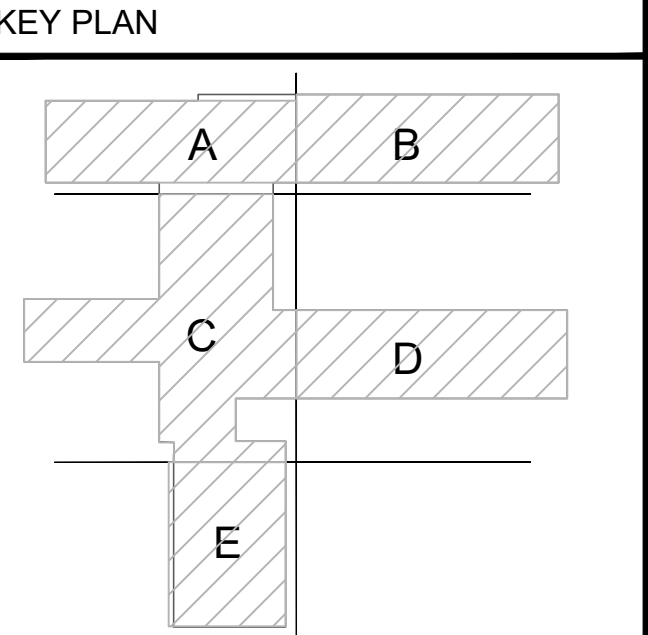
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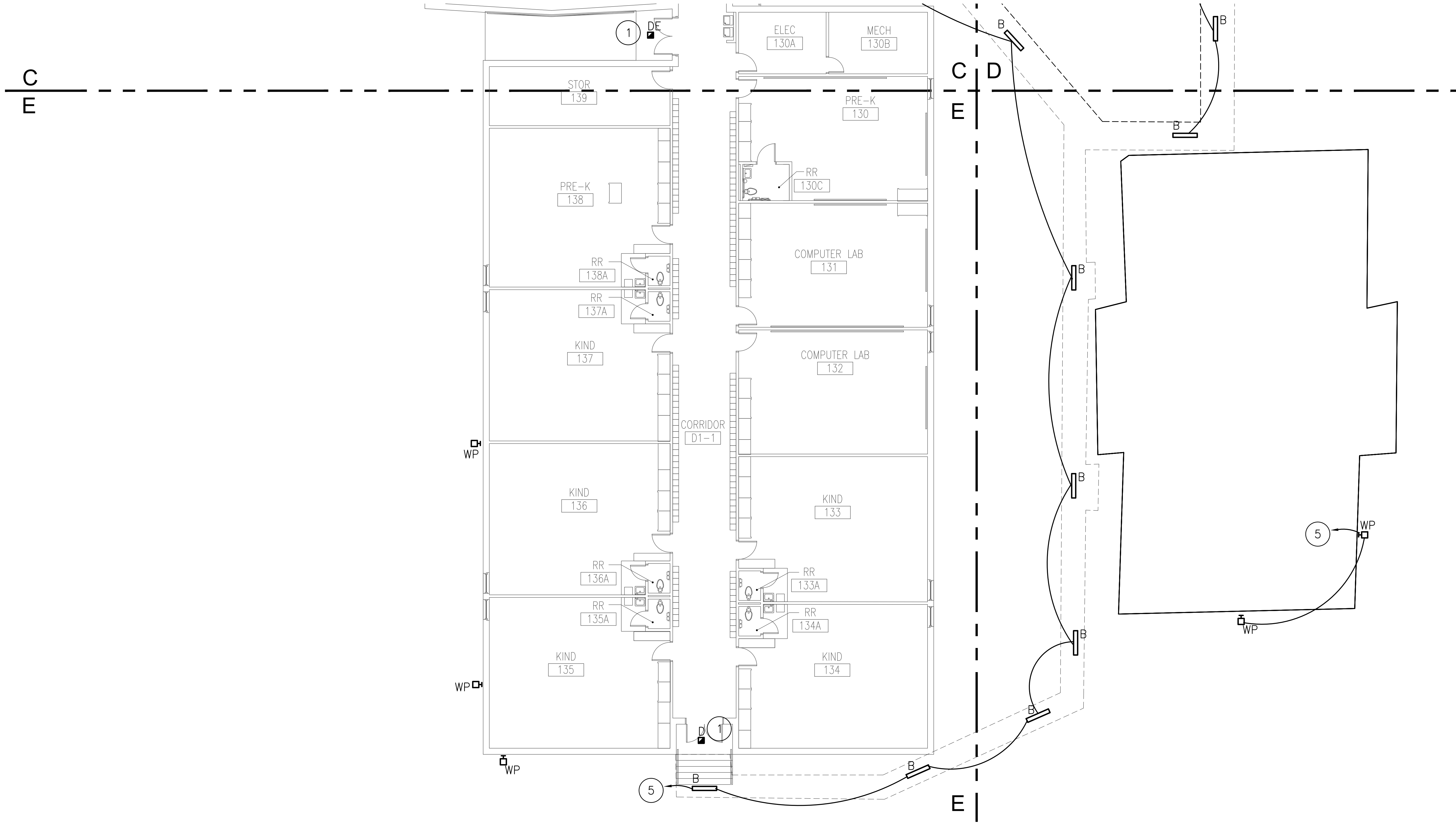
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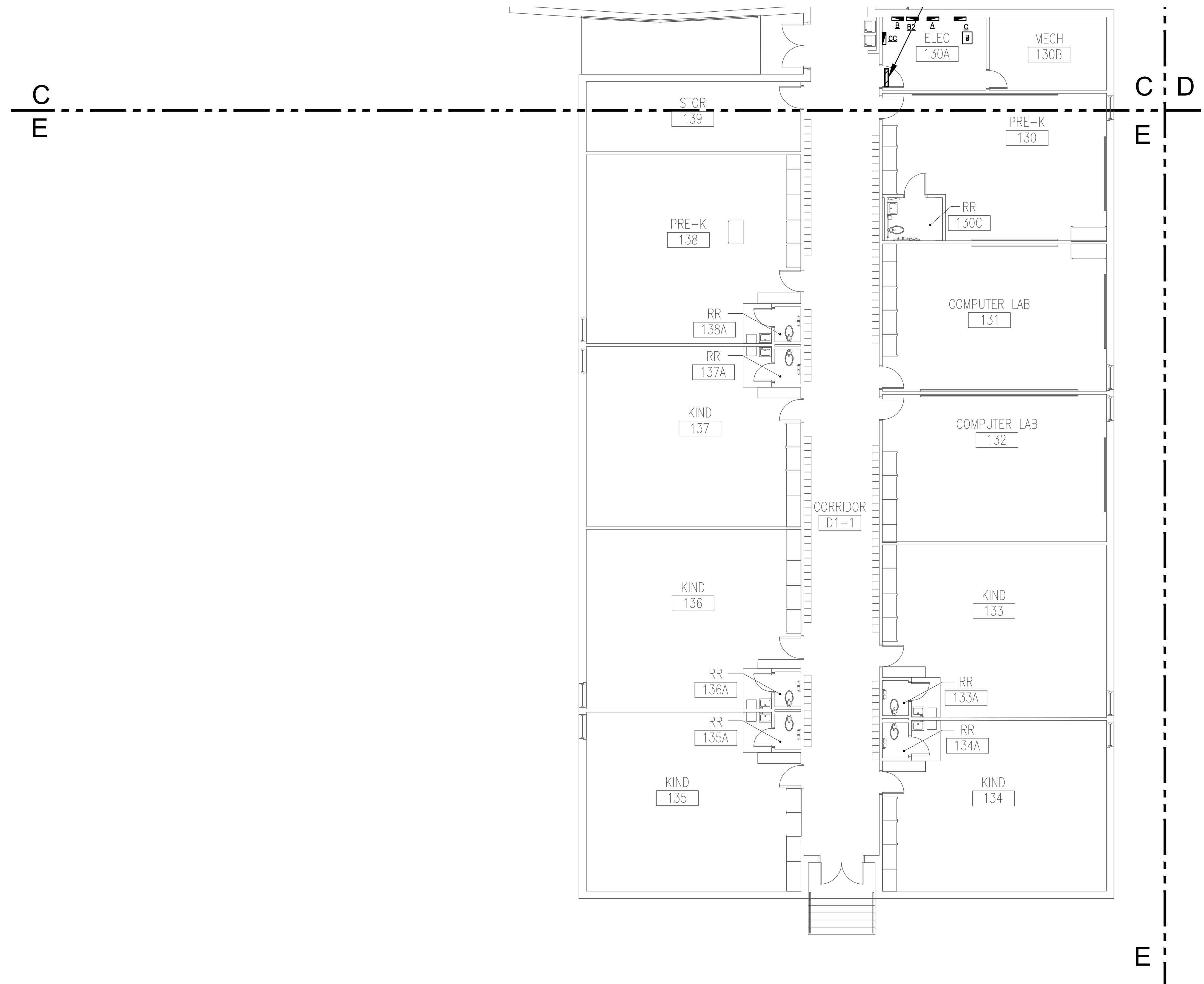
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FLOOR PLAN LIGHTING
 Sheet Number
E204



- LIGHTING NOTES INDICATED BY SYMBOL "⊙"
- CIRCUIT NEW LIGHT EXTERIOR LIGHT FIXTURES TO EXISTING 1P-20A CIRCUIT BREAKER IN THIS AREA W/ 2#12, #12G, 3/4"C. PROVIDE NEW TIMECLOCK AND PHOTOCELL CONTROL.
 - HOMERUNS WITH THIS NOTE INDICATES NEW LIGHTING FIXTURES ARE TO BE CONNECTED TO THE EXISTING LIGHTING BRANCH CIRCUIT SERVING THIS AREA, MADE AVAILABLE BY DEMOLITION OF OLD LIGHTING FIXTURES. NEW LIGHTING FIXTURES SHALL BE CONNECTED TO THE RESPECTIVE EXISTING LIGHTING BRANCH CIRCUIT WITH 3/4"C-2#12, 1#12G, MINIMUM.
 - FIELD VERIFY EXACT LOCATION OF ALL EMERGENCY BATTERY PACK FIXTURES AND EXIT SIGNS WITH MILLWORK, LOCKERS AND OTHER EQUIPMENT TO PROVIDE PROPER OPERATION. TYPICAL MOUNTING HEIGHT SHALL BE APPROXIMATELY 7.5' AFF. COORDINATE WITH ARCHITECT IF THIS IS NOT FEASIBLE FOR A SPECIFIC LOCATION. ALL EMERGENCY BATTERY PACK LIGHTING FIXTURES SHALL BE CONNECTED TO THE UNSWITCHED HOMERUN OF THE RESPECTIVE EXISTING LIGHTING BRANCH CIRCUIT WITH 3/4"C-2#12, 1#12G, MINIMUM, FOR CONSTANT POWER TO BACKUP BATTERIES. FIXTURE SHALL ILLUMINATE ONLY UPON LOSS OF POWER TO THE LIGHTING BRANCH CIRCUIT.
 - PROVIDE FOUR BUTTON SWITCH FOR SEPARATE CONTROLS FOR EACH ZONE WITH DIMMING, ON AND OFF BUTTONS.
 - CONNECT TO NEW EXTERIOR LIGHTING CIRCUIT SERVED BY NEW 20A/1P BRANCH CIRCUIT VIA 2#12+1#12G IN 3/4"C VIA TIMECLOCK AND PHOTOCELL CONTROL.

 1 FLOOR PLAN - AREA 'E' - LIGHTING
 SCALE: 1/8" = 1'-0"



1 FLOOR PLAN - AREA 'E' - POWER
 SCALE: 1/8" = 1'-0"

NOTES INDICATED BY SYMBOL

- POWERED BY OUTDOOR UNIT. RUN DESIGNATED CIRCUIT TO LOCATION OF OUTDOOR UNIT. COORDINATE WITH MECH FOR LOCATION. CONNECT INDOOR UNIT TO ASSOCIATED OUTDOOR UNIT. PROVIDE 2 #10 + #10G IN 3" FROM RECESSED HEAVY DUTY 2 POLE SWITCH AT INDOOR UNIT.
- DISCONNECT AND RECONNECT NEW VAV BOXES.
- CONNECT NEW FACP TO EXISTING CIRCUIT SERVING PREVIOUS FACP W/ 2#12, #12G, 3/4" C. RELOCATE FROM NURSE'S RESTROOM. COORDINATE EXACT LOCATION IN FIELD.
- PROVIDE CONNECTION TO NEW MARQUEE SIGN FOR CONTROL.
- ADMINISTRATIVE AREA AND CLINIC TO BE REMODELED. REFER TO ARCHITECTURAL DRAWINGS FOR SCOPE OF DEMOLITION. REMOVE POWER/DATA WITHIN WALLS SCHEDULED FOR DEMO. FOR ALL DEMOLISHED DEVICES, REMOVE WIRE AND CONDUIT BACK TO SOURCE OR NEAREST REMAINING "HOT" DEVICE ON CIRCUIT.
- DATA AND POWER LOCATED WITHIN RECEPTION DESK. COORDINATE SPECIFIC LOCATION OF STUB UP FROM UNDER FLOOR WITH LOCATION OF FURNITURE. COORDINATE WITH MILLWORK DRAWINGS. PROVIDE CONNECTION TO NEW MARQUEE SIGN.
- UNLESS SPECIFICALLY DESIGNATED FOR EQUIPMENT REQUIRING CONTINUOUS OPERATION (CABLE BOXES FOR TVS, APPLIANCES, ETC.), PROVIDE SPLIT WIRED RECEPTACLES IN OFFICES AND CONFERENCE ROOMS. LABELLED IN ACCORDANCE WITH NEC PER IECQ 2021 WITH TOP PLUG TIED INTO A TIMECLOCK WITH OVERRIDE SWITCH WITHIN SIGHT OF OUTLETS.
- DISCONNECT EXISTING PUMP & RECONNECT TO MCC. PROVIDE TWO 60A/3P BREAKERS WITHIN MCC TO FEED NEW CHWP PUMPS VIA 3/8" #10G IN 1" C & VFD. COOLING TOWER FANS AND CONDENSER WATER PUMP ARE NO LONGER SERVED BY MCC. REUSE SPACES AND PREVIOUS CHILLED WATER PUMP SPACE AND RELABEL THOSE NO LONGER USED AS SPARES.
- DISCONNECT EXISTING PUMP & RECONNECT TO PANEL DB. PROVIDE TWO 50A/3P BREAKERS WITHIN DB TO FEED NEW HWP PUMPS VIA 3/8" #10G IN 1" C & VFD.
- PROVIDE NEW 400A MLO 277/480V PANEL DB TO REPLACE EXISTING. PANEL FED BY 400A/3P SERVICE DISCONNECT IN MAIN SWITCHBOARD.
- CONTRACTOR SHALL CONFIRM FACP & FAAP LOCATION WITH DISD AND ARCHITECT PRIOR TO ROUGH-IN.

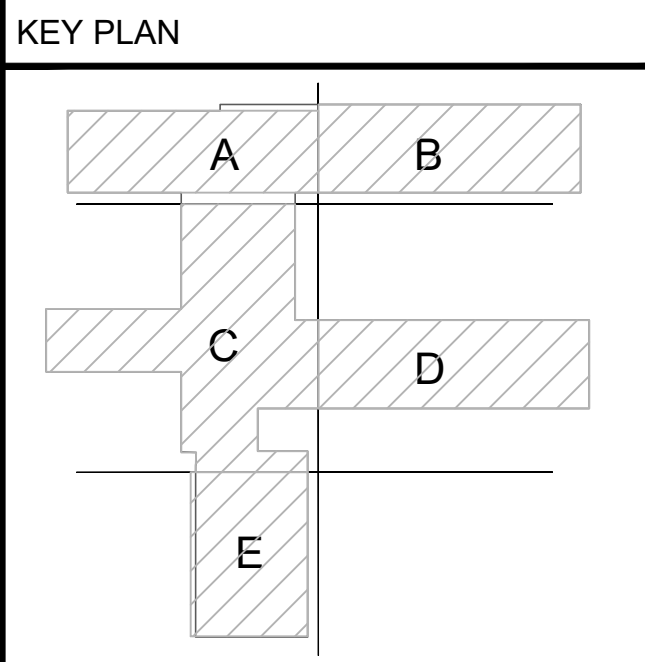
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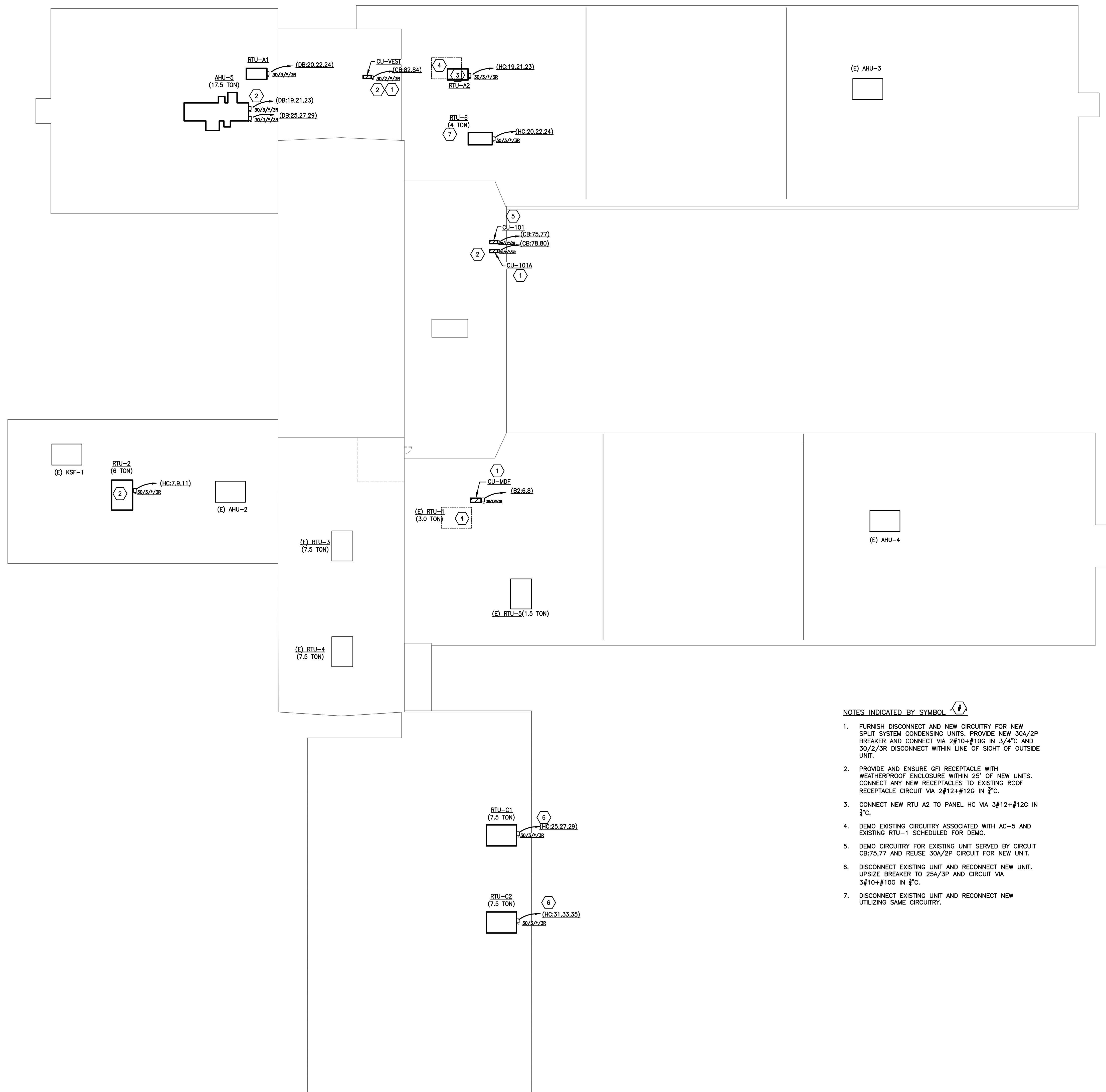
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NOTES INDICATED BY SYMBOL (6)

- FURNISH DISCONNECT AND NEW CIRCUITRY FOR NEW SPLIT SYSTEM CONDENSING UNITS. PROVIDE NEW 30A/2P BREAKER AND CONNECT VIA 2#10+#10G IN 3/4" AND 30/2/3R DISCONNECT WITHIN LINE OF SIGHT OF OUTSIDE UNIT.
- PROVIDE AND ENSURE GFI RECEPTACLE WITH WEATHERPROOF ENCLOSURE WITHIN 25' OF NEW UNITS. CONNECT ANY NEW RECEPTACLES TO EXISTING ROOF RECEPTACLE CIRCUIT VIA 2#12+#12G IN 3/4".
- CONNECT NEW RTU A2 TO PANEL HC VIA 3#12+#12G IN 3/4".
- DEMO EXISTING CIRCUITRY ASSOCIATED WITH AC-5 AND EXISTING RTU-1 SCHEDULED FOR DEMO.
- DEMO CIRCUITRY FOR EXISTING UNIT SERVED BY CIRCUIT CB:75.77 AND REUSE 30A/2P CIRCUIT FOR NEW UNIT.
- DISCONNECT EXISTING UNIT AND RECONNECT NEW UNIT. UPSIZE BREAKER TO 25A/3P AND CIRCUIT VIA 3#10+#10G IN 3/4".
- DISCONNECT EXISTING UNIT AND RECONNECT NEW UTILIZING SAME CIRCUITRY.

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

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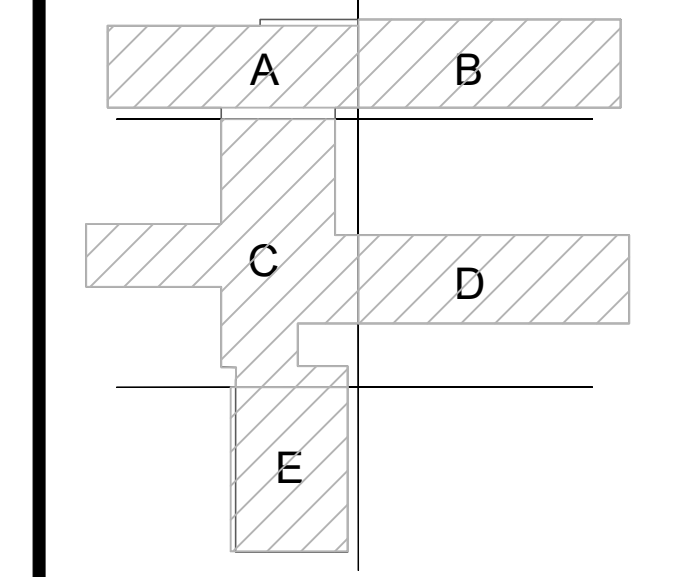
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KEY PLAN



JMA Project Number:

Date: 08/09/2024

Scale:

Sheet Title

ROOF PLAN POWER

Sheet Number

E205

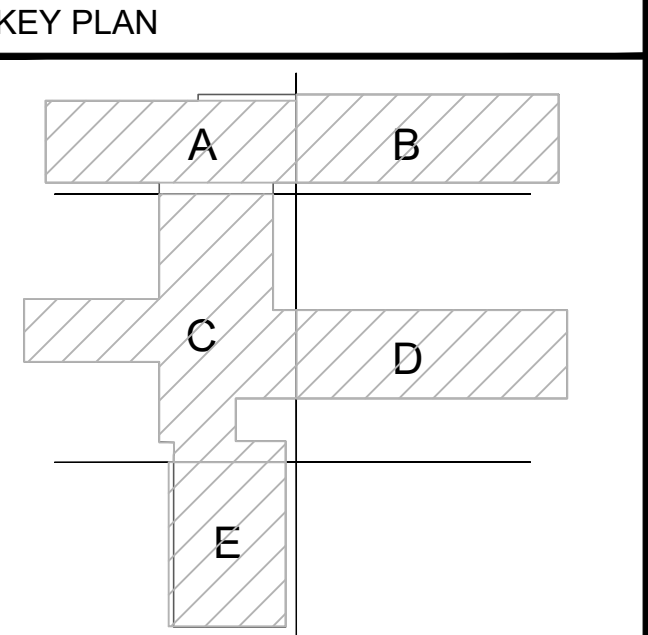
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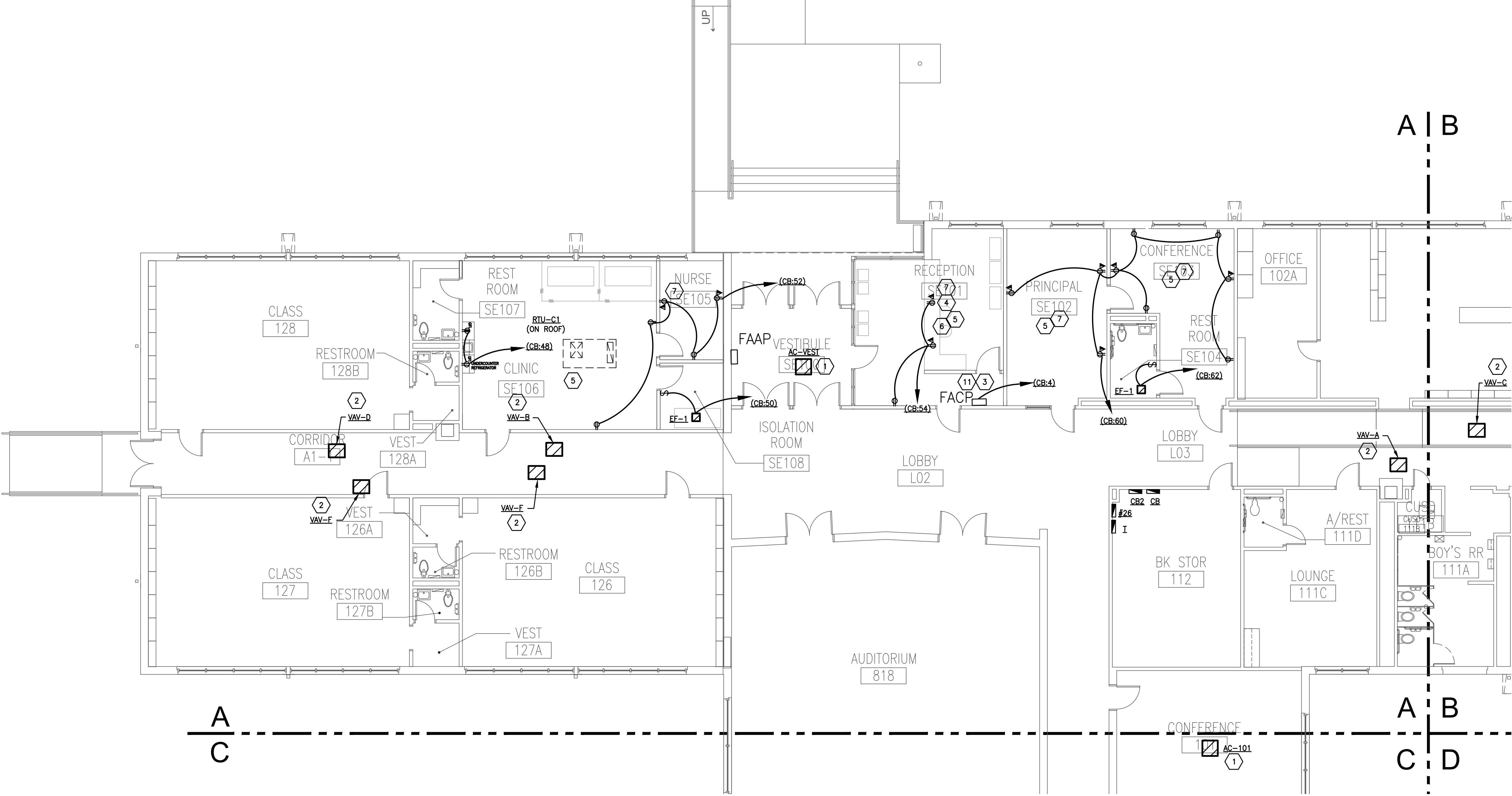
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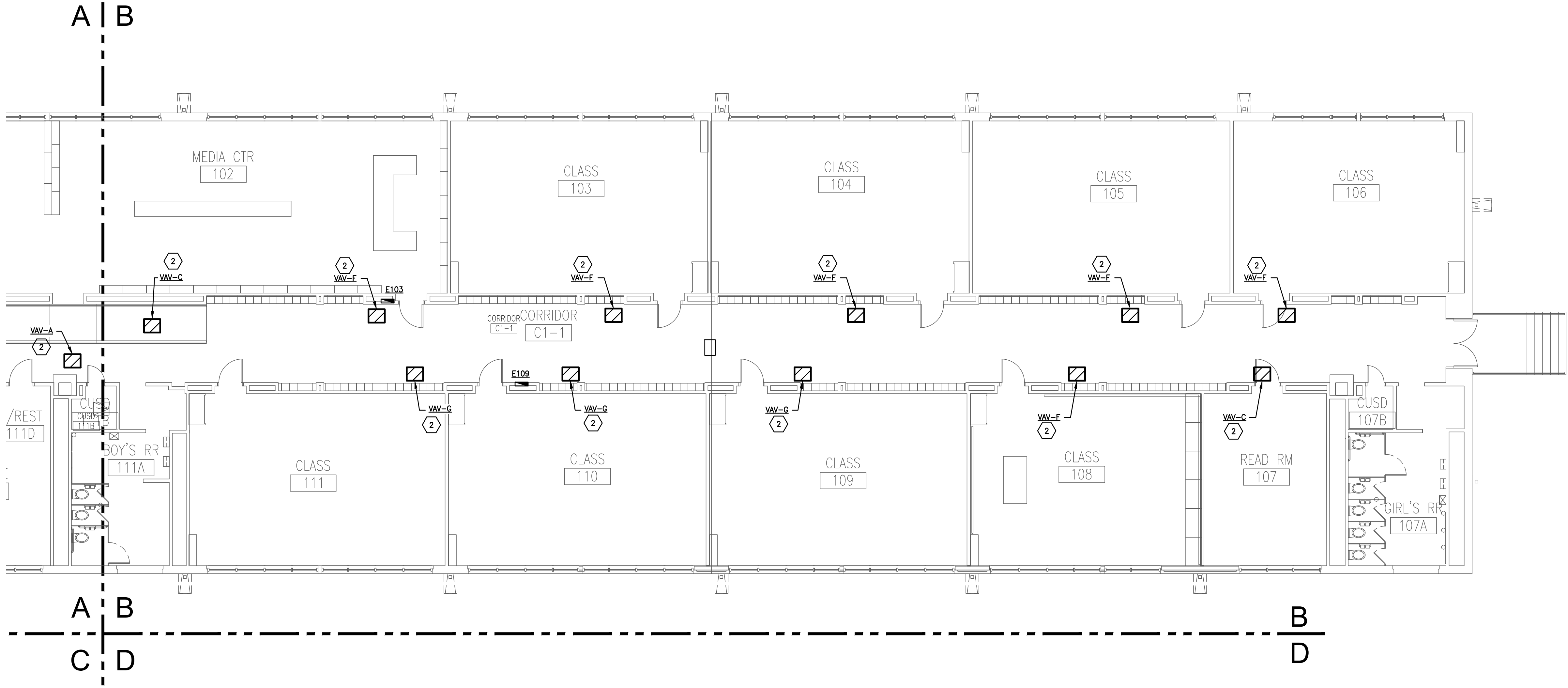
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JMA Project Number:
 Date: 08/09/2024
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 Sheet Title
FLOOR PLAN POWER
 Sheet Number
E301



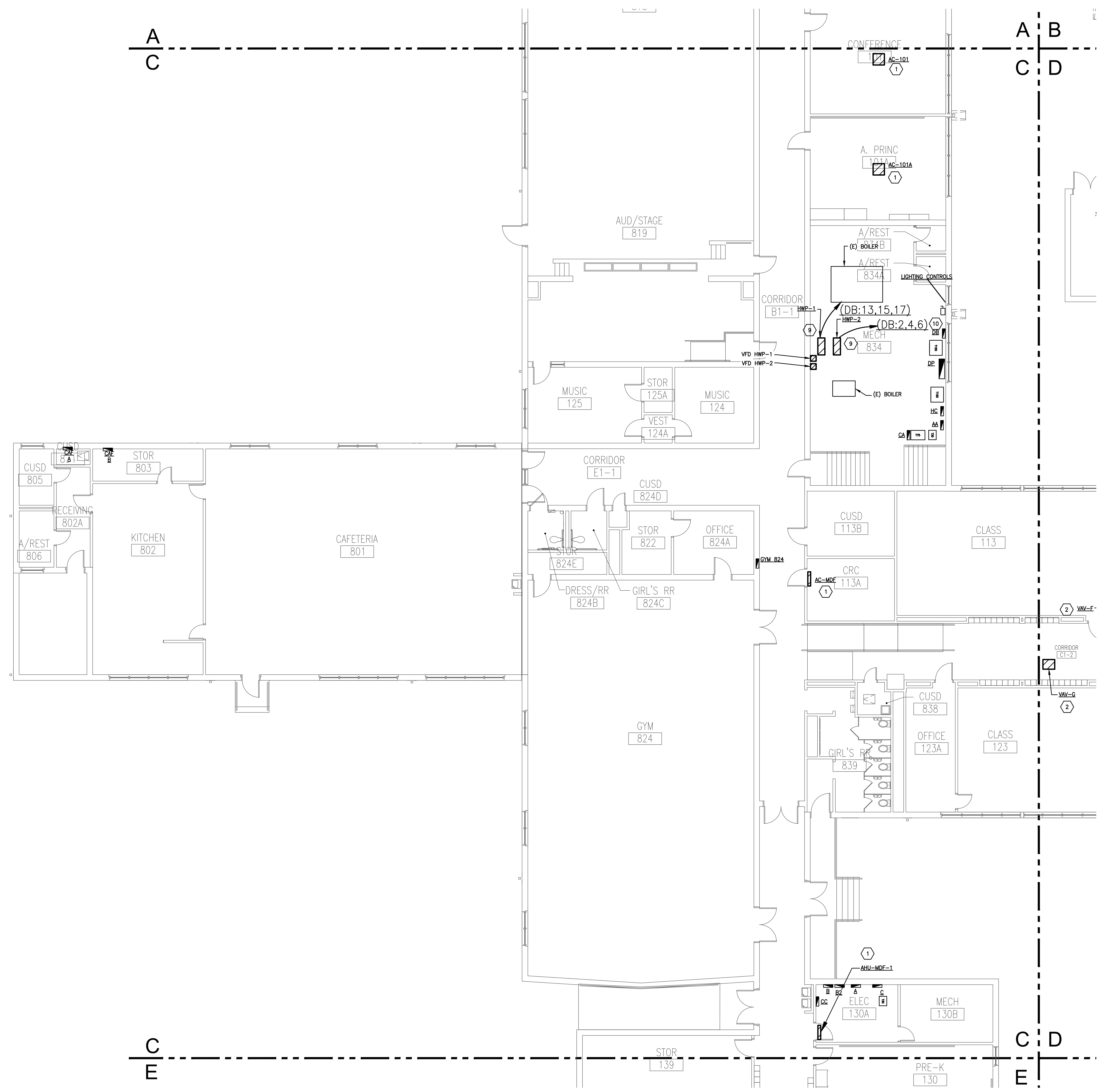
1 FLOOR PLAN - AREA 'A' - POWER
 SCALE: 1/8" = 1'-0"



2 FLOOR PLAN - AREA 'B' - POWER
 SCALE: 1/8" = 1'-0"

- NOTES INDICATED BY SYMBOL (1)
- POWERED BY OUTDOOR UNIT. RUN DESIGNATED CIRCUIT TO LOCATION OF OUTDOOR UNIT. COORDINATE WITH MECH FOR LOCATION. CONNECT INDOOR UNIT TO ASSOCIATED OUTDOOR UNIT. PROVIDE 2 #10 #8100 IN 2" FROM RECESSED HEAVY DUTY 2 POLE SWITCH AT INDOOR UNIT.
 - DISCONNECT AND RECONNECT NEW VAV BOXES.
 - CONNECT NEW FACP TO EXISTING CIRCUIT SERVING PREVIOUS FACP W/ #12, #12S, #1/4". RELOCATE FROM NURSE'S RESTROOM. COORDINATE EXACT LOCATION IN FIELD.
 - PROVIDE CONNECTION TO NEW MARQUEE SIGN FOR CONTROL.
 - ADMINISTRATIVE AREA AND CLINIC TO BE REMODELED. REFER TO ARCHITECTURAL DRAWINGS FOR SCOPE OF DEMOLITION. REMOVE POWER/DATA WITHIN WALLS SCHEDULED FOR DEMO. FOR ALL DEMOLISHED DEVICES, REMOVE WIRE AND CONDUIT BACK TO SOURCE OR NEAREST REMAINING "HOT" DEVICE ON CIRCUIT.
 - DATA AND POWER LOCATED WITHIN RECEPTION DESK. COORDINATE SPECIFIC LOCATION OF STUB UP FROM UNDER FLOOR WITH LOCATION OF FURNITURE. COORDINATE WITH MILLWORK DRAWINGS. PROVIDE CONNECTION TO NEW MARQUEE SIGN.
 - UNLESS SPECIFICALLY DESIGNATED FOR EQUIPMENT REQUIRING CONTINUOUS OPERATION (CABLE BOXES FOR TVS, APPLIANCES, ETC), PROVIDE SPLIT WIRED RECEPTACLES IN OFFICES AND CONFERENCE ROOMS, LABELED IN ACCORDANCE WITH NEC PER IECC 2021 WITH TOP PLUG TIED INTO A TIMECLOCK WITH OVERRIDE SWITCH WITHIN SIGHT OF OUTLETS.
 - DISCONNECT EXISTING PUMP & RECONNECT TO MCC. PROVIDE TWO 60A/3P BREAKERS WITHIN MCC TO FEED NEW CHWP PUMPS VIA #3/8-#106 IN 1" & VED. COOLING TOWER FANS AND CONDENSER WATER PUMP ARE NO LONGER SERVED BY MCC. REUSE SPACES AND PREVIOUS CHILLED WATER PUMP SPACE AND RELABEL THOSE NO LONGER USED AS SPARES.
 - DISCONNECT EXISTING PUMP & RECONNECT TO PANEL DB. PROVIDE TWO 50A/3P BREAKERS WITHIN DB TO FEED NEW HWP PUMPS VIA #3/8-#106 IN 1" & VED.
 - PROVIDE NEW 400A MLD 277/480V PANEL DB TO REPLACE EXISTING. PANEL FEED BY 400A/3P SERVICE DISCONNECT IN MAIN SWITCHBOARD.
 - CONTRACTOR SHALL CONFIRM FACP & FACP LOCATION WITH DISD AND ARCHITECT PRIOR TO ROUGH-IN.

- GENERAL POWER NOTES:
 (APPLIES TO ALL SHEETS)
- INSTALL ALL RECEPTACLES AT 18" AFF TO TOP OF DEVICE, UNLESS NOTED OTHERWISE NOTED, TO MEET ADA REQUIREMENTS.
 - INSTALL ALL TELEPHONE, DATA, AND COMMUNICATIONS OUTLETS AT 18" AFF, UNLESS OTHERWISE NOTED. PROVIDE RECESSED METAL BACKBOX, COVERPLATE, AND 1" E.C. RISER TO ACCESSIBLE CEILING SPACE, WITH NYLON BUSHINGS ON EACH END AND PULL STRING. COMMUNICATIONS CABLING SHALL BE INSTALLED BY OTHERS.
 - MOUNTING HEIGHT OF ALL RECEPTACLES INDICATED AS ABOVE COUNTER SHALL BE COORDINATED WITH ARCHITECTURAL DETAILS.
 - GFCI PROTECTION SHALL BE PROVIDED FOR ALL RECEPTACLES WITHIN 6'-0" OF A SINK OR LAVATORY.
 - ALL RECEPTACLES SHALL BE TAMPER PROOF IN AREAS WHERE CHILDREN WILL BE PRESENT. INTERIOR AND EXTERIOR. KITCHEN, OFFICE, BREAKROOM, AND LAUNDRY RECEPTACLES ARE NOT REQUIRED TO BE TAMPER PROOF.
 - ALL EXTERIOR DISCONNECT SWITCHES AND CONTROL DEVICES SHALL BE WEATHERPROOF. DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT SHALL NOT BE INSTALLED ON MOVING PARTS, REMOVABLE ACCESS PANELS, OR ON THE EQUIPMENT NAMEPLATE.
 - ALL CONDUIT IN EXPOSED AREAS SHALL BE EMT TYPE AND SHALL BE RUN RECTILINEAR TO STRUCTURE AND LIGHTS IN A NEAT MANNER. RE: ARCH. FOR ADDITIONAL REQUIREMENTS. ALL LOW VOLTAGE WIRING SHALL BE IN CONDUIT IN EXPOSED AREAS. MC CABLE IS ALLOWED IN CONCEALED AREAS & MUST BE SUPPORTED PROPERLY WITHOUT MORE THAN 12" SLACK.
 - ALL EMPTY CONDUIT SHALL HAVE PULL WIRE.
 - CONTRACTOR SHALL DISCONNECT AND RECONNECT ALL MECHANICAL UNITS SCHEDULED TO BE REPLACED.
 - CONTRACTOR SHALL DEMO ALL ASSOCIATED CIRCUITRY AND EQUIPMENT WITH MECHANICAL UNITS SCHEDULED FOR DEMO.



1 FLOOR PLAN - AREA 'C' - POWER
 SCALE: 1/8" = 1'-0"

- NOTES INDICATED BY SYMBOL (1)
- POWERED BY OUTDOOR UNIT. RUN DESIGNATED CIRCUIT TO LOCATION OF OUTDOOR UNIT. COORDINATE WITH MECH FOR LOCATION. CONNECT INDOOR UNIT TO ASSOCIATED OUTDOOR UNIT. PROVIDE 2 #10 + #10G IN 2" C FROM RECESSED HEAVY DUTY 2 POLE SWITCH AT INDOOR UNIT.
 - DISCONNECT AND RECONNECT NEW WAV BOXES.
 - CONNECT NEW FACP TO EXISTING CIRCUIT SERVING PREVIOUS FACP W/ 2#12, #12S, 3/4" C. RELOCATE FROM NURSE'S RESTROOM. COORDINATE EXACT LOCATION IN FIELD.
 - PROVIDE CONNECTION TO NEW MARQUEE SIGN FOR CONTROL.
 - ADMINISTRATIVE AREA AND CLINIC TO BE REMODELED. REFER TO ARCHITECTURAL DRAWINGS FOR SCOPE OF DEMO. REMOVE POWER/DATA WITHIN WALLS SCHEDULED FOR DEMO. FOR ALL DEMOLISHED DEVICES, REMOVE WIRE AND CONDUIT BACK TO SOURCE OR NEAREST REMAINING "HOT" DEVICE ON CIRCUIT.
 - DATA AND POWER LOCATED WITHIN RECEPTION DESK. COORDINATE SPECIFIC LOCATION OF STUB UP FROM UNDER FLOOR WITH LOCATION OF FURNITURE. COORDINATE WITH MILLWORK DRAWINGS. PROVIDE CONNECTION TO NEW MARQUEE SIGN.
 - UNLESS SPECIFICALLY DESIGNATED FOR EQUIPMENT REQUIRING CONTINUOUS OPERATION (CABLE BOXES FOR TVS, APPLIANCES, ETC), PROVIDE SPLIT WIRED RECEPTACLES IN OFFICES AND CONFERENCE ROOMS. LABELLED IN ACCORDANCE WITH NEC PER EDC 2021 WITH TOP PLUG TIED INTO A TIMECLOCK WITH OVERRIDE SWITCH WITHIN SIGHT OF OUTLETS.
 - DISCONNECT EXISTING PUMP & RECONNECT TO MCC. PROVIDE TWO 50A/3P BREAKERS WITHIN MCC TO FEED NEW CHMP PUMPS VIA 3/8" #10G IN 1" C & VFD. COOLING TOWER FANS AND CONDENSER WATER PUMP ARE NO LONGER SERVED BY MCC. REUSE SPACES AND PREVIOUS CHILLED WATER PUMP SPACE AND RELABEL THOSE NO LONGER USED AS SPARES.
 - DISCONNECT EXISTING PUMP & RECONNECT TO PANEL DB. PROVIDE TWO 50A/3P BREAKERS WITHIN DB TO FEED NEW HWP PUMPS VIA 3/8" #10G IN 1" C & VFD.
 - PROVIDE NEW 400A MLO 277/480V PANEL DB TO REPLACE EXISTING. PANEL FED BY 400A/3P SERVICE DISCONNECT IN MAIN SWITCHBOARD.
 - CONTRACTOR SHALL CONFIRM FACP & FAAP LOCATION WITH DISD AND ARCHITECT PRIOR TO ROUGH-IN.

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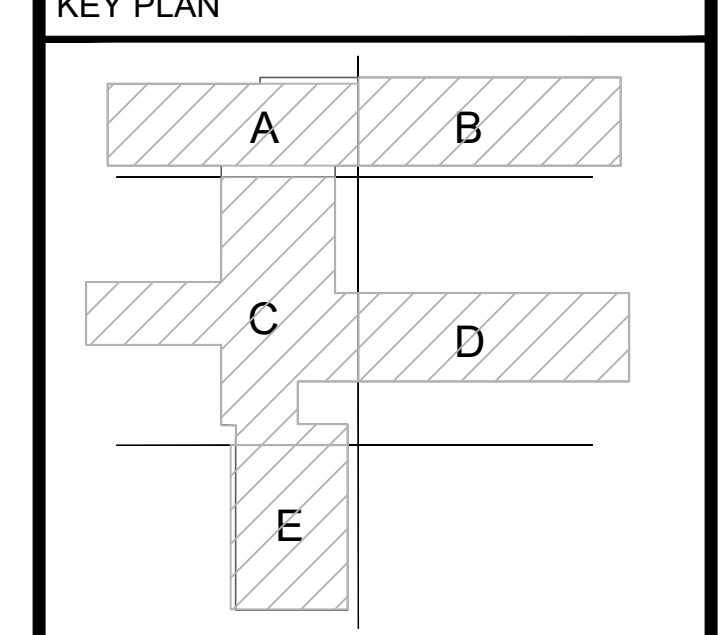
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Sheet Title
FLOOR PLAN POWER
 Sheet Number
E302

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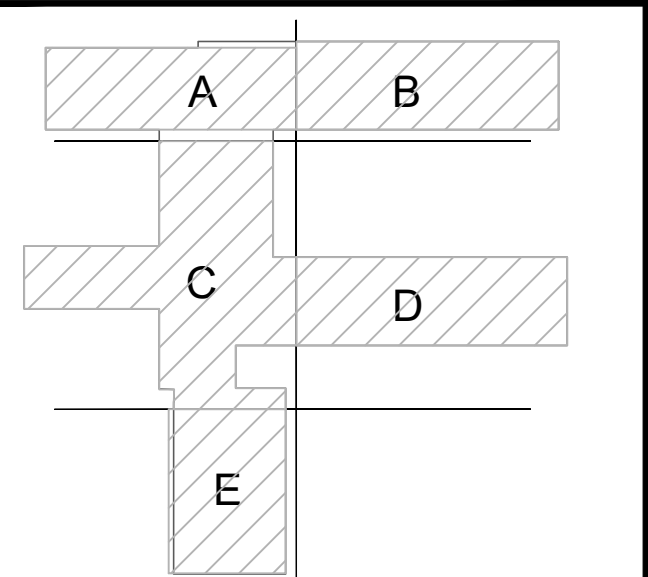
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KEY PLAN



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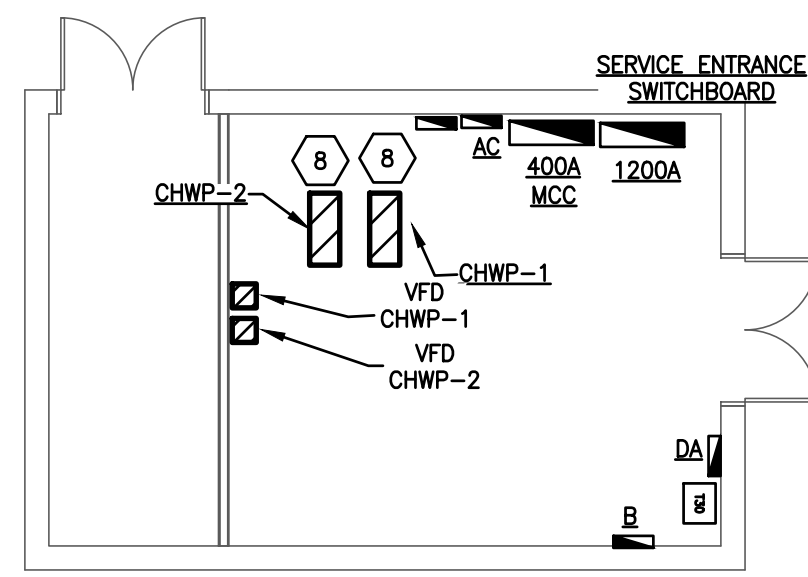
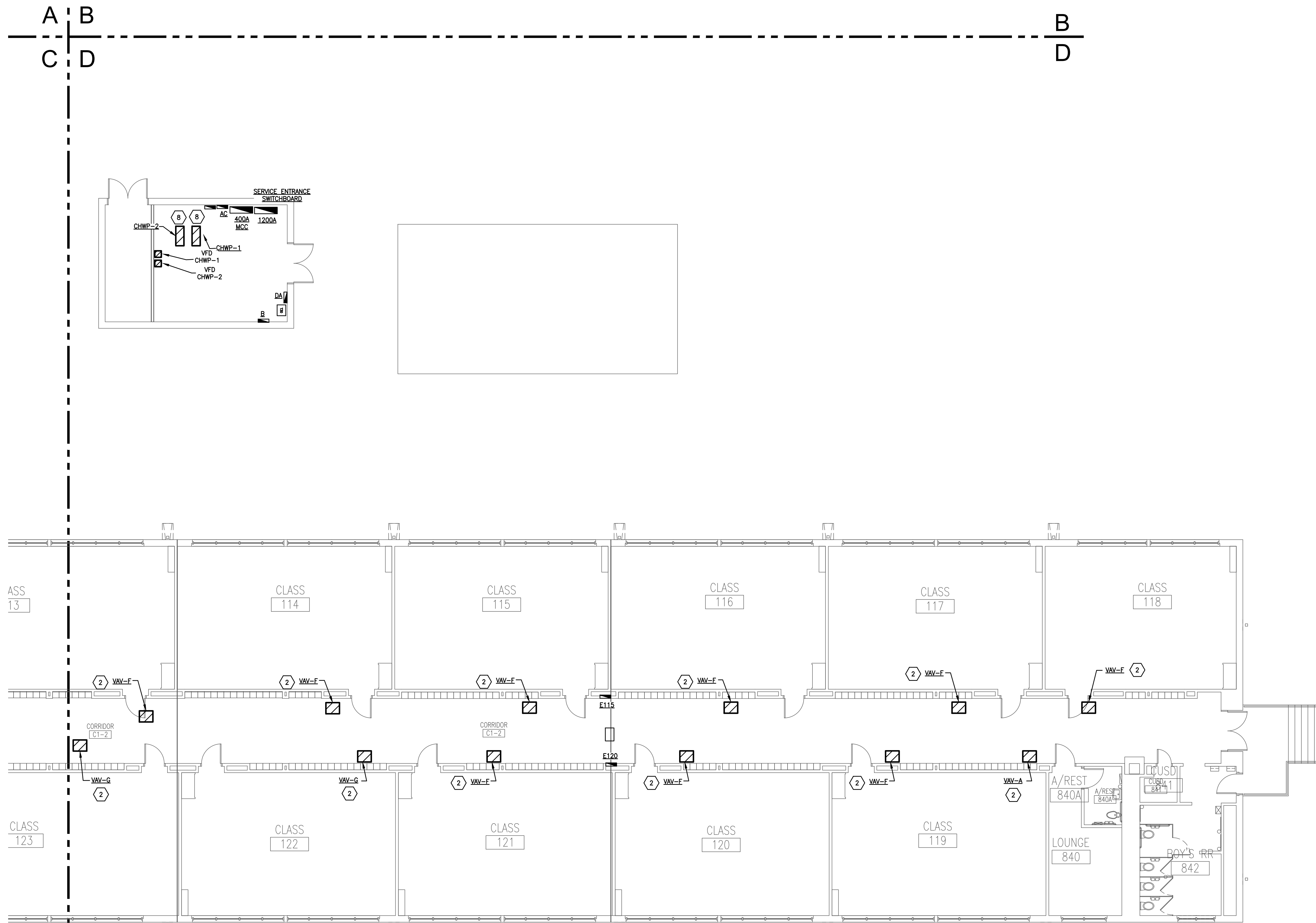
Scale:

Sheet Title

FLOOR PLAN
POWER

Sheet Number

E303



- NOTES INDICATED BY SYMBOL (S)
- POWERED BY OUTDOOR UNIT. RUN DESIGNATED CIRCUIT TO LOCATION OF OUTDOOR UNIT. COORDINATE WITH MECH FOR LOCATION. CONNECT INDOOR UNIT TO ASSOCIATED OUTDOOR UNIT. PROVIDE 2 #10 + #10G IN 1" FROM RECESSED HEAVY DUTY 2 POLE SWITCH AT INDOOR UNIT.
 - DISCONNECT AND RECONNECT NEW VAV BOXES.
 - CONNECT NEW FACP TO EXISTING CIRCUIT SERVING PREVIOUS FACP W/ 2#12, #120, 3/4" C. RELOCATE FROM NURSE'S RESTROOM. COORDINATE EXACT LOCATION IN FIELD.
 - PROVIDE CONNECTION TO NEW MARQUEE SIGN FOR CONTROL.
 - ADMINISTRATIVE AREA AND CLINIC TO BE REMODELED. REFER TO ARCHITECTURAL DRAWINGS FOR SCOPE OF DEMOLITION. REMOVE POWER/DATA WITHIN WALLS SCHEDULED FOR DEMO. FOR ALL DEMOLISHED DEVICES, REMOVE WIRE AND CONDUIT BACK TO SOURCE OR NEAREST REMAINING "HOT" DEVICE ON CIRCUIT.
 - DATA AND POWER LOCATED WITHIN RECEPTION DESK. COORDINATE SPECIFIC LOCATION OF STUB UP FROM UNDER FLOOR WITH LOCATION OF FURNITURE. COORDINATE WITH MILLWORK DRAWINGS. PROVIDE CONNECTION TO NEW MARQUEE SIGN.
 - UNLESS SPECIFICALLY DESIGNATED FOR EQUIPMENT REQUIRING CONTINUOUS OPERATION (CABLE BOXES FOR TVs, APPLIANCES, ETC), PROVIDE SPLIT WIRED RECEPTACLES IN OFFICES AND CONFERENCE ROOMS. LABELLED IN ACCORDANCE WITH NEC PER IECQ 2021 WITH TOP PEGS TIED INTO A TIMELOCK WITH OVERRIDE SWITCH WITHIN SIGHT OF OUTLETS.
 - DISCONNECT EXISTING PUMP & RECONNECT TO MGC. PROVIDE TWO 60A/3P BREAKERS WITHIN MGC TO FEED NEW CHWP PUMPS VIA 3/8" #10G IN 1" C & VFD. COOLING TOWER FANS AND CONDENSER WATER PUMP ARE NO LONGER SERVED BY MGC. REUSE SPACES AND PREVIOUS CHILLED WATER PUMP SPACE AND RELABEL THOSE NO LONGER USED AS SPARES.
 - DISCONNECT EXISTING PUMP & RECONNECT TO PANEL DB. PROVIDE TWO 50A/3P BREAKERS WITHIN DB TO FEED NEW HWP PUMPS VIA 3/8" #10G IN 1" C & VFD.
 - PROVIDE NEW 400A MLO 277/480V PANEL DB TO REPLACE EXISTING. PANEL FED BY 400A/3P SERVICE DISCONNECT IN MAIN SWITCHBOARD.
 - CONTRACTOR SHALL CONFIRM FACP & FACP LOCATION WITH DISD AND ARCHITECT PRIOR TO ROUGH-IN.

FLOOR PLAN - AREA 'D' - POWER
 SCALE: 1/8" = 1'-0"

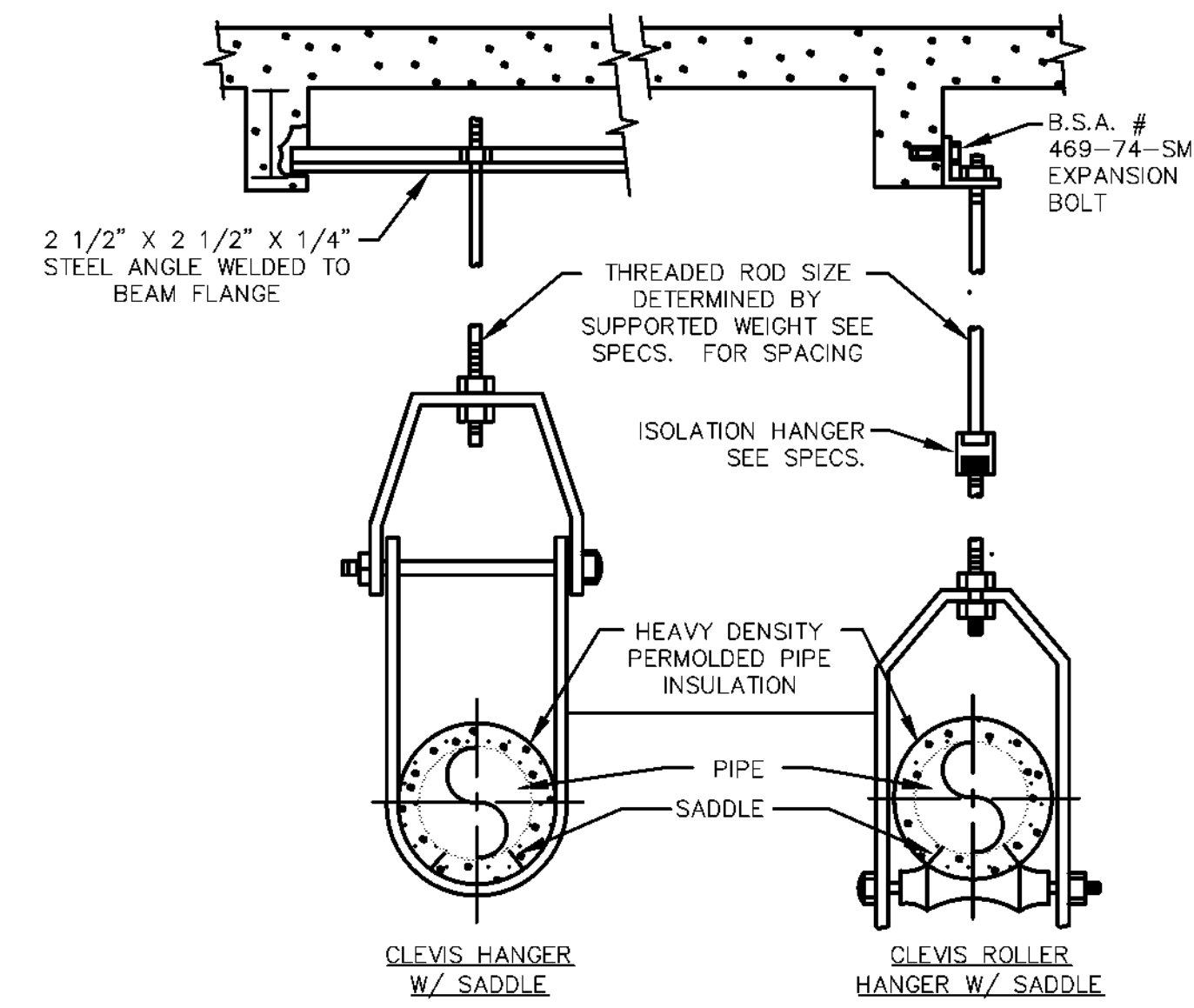
| PLUMBING LEGEND | |
|-----------------|---|
| | POINT OF CONNECTION, NEW TO EXIST DUCT/PIPE |
| | GATE VALVE |
| | GLOBE VALVE |
| | CHECK VALVE |
| | BUTTERFLY VALVE |
| | BALL VALVE |
| | PLUG VALVE |
| | TWO WAY VALVE |
| | SOLENOID OPERATED VALVE |
| | GAS COOK |
| | GAS REGULATING VALVE |
| | STRAINER W/ BLOWDOWN GATE VALVE |
| | TEMPERATURE/ PRESSURE RELIEF VALVE |
| | THREE WAY VALVE |
| | P - TRAP |
| | CIRCUIT SETTER BALANCE VALVE |
| | CLEANOUT |
| | HOSE BIBB |
| | ELBOW TURNING DOWN |
| | ELBOW TURNING UP |
| | PIPE CAP |
| | DIRECTION OF FLOW |
| | DOMESTIC COLD WATER |
| | DOMESTIC HOT WATER |
| | DOMESTIC HOT WATER RETURN |
| | SANITARY SEWER |
| | VENT |
| | REFER TO ABBREVIATIONS FOR CONTENTS (E.G., SS = SANITARY SEWER) |

| ABBREVIATIONS | |
|---------------|--|
| ADA | AMERICAN DISABILITIES ACT |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| ARCH | ARCHITECTURAL |
| AV | ACID VENT |
| BFF | BELOW FINISHED FLOOR |
| BFP | BACK FLOW PREVENTER |
| BFBV | BUTTERFLY VALVE |
| BTUH | BRITISH THERMAL UNITS / HR. |
| BV | BALL VALVE |
| BVP | BUTTERFLY VALVE |
| CA | COMPRESSED AIR |
| CM | CUBIC FEET PER MINUTE |
| CO | CLEANOUT |
| CO | CONTINUATION |
| COORD | COORDINATE |
| DB | DEBRIS |
| DDC | DRY BULB TEMPERATURE |
| DDC F | DIRECT DIGITAL CONTROL |
| DDC F | DEGREES FAHRENHEIT |
| DDC W | DOMESTIC COLD WATER |
| DHW | DOUBLE CLEANOUT |
| DHW | DOMESTIC HOT WATER |
| DHW | DOMESTIC HOT WATER RETURN |
| DN | DOWN |
| DY | DOUBLE YARD CLEANOUT |
| EA | EXISTING |
| EA | EFFICIENCY |
| EL | ELECTRICAL |
| ELEC | ENTERING WATER TEMPERATURE |
| EXIST | EXISTING |
| F | FIRE |
| FBI | FURNISH AND INSTALL |
| FBI | FLOOR CLEANOUT |
| FGW | FILTERED COLD WATER |
| FGW | FINE |
| FT | FEET PER SECOND |
| FT | FEET |
| G | NATURAL GAS |
| GC | GENERAL CONTRACTOR |
| GCO | GRADE CLEANOUT |
| GPM | GALLON PER MINUTE |
| GM | GRADE WASTE |
| HB | HOSE BIBB |
| HP | HORSE POWER |
| HOR | HORSE |
| HVAC | HEATING, VENTILATION & AIR CONDITIONING |
| IN | INVERT ELEVATION |
| IN | INVERT |
| KEC | KITCHEN EQUIPMENT CONTRACTOR |
| KWH | KILOWATT HOUR |
| LWT | LEAVING WATER TEMPERATURE |
| MA | MAXIMUM |
| MA | MECHANICAL |
| MECH | METRIC |
| IN | NOT APPLICABLE |
| N | NITROGEN |
| NH | NON FREEZE WALL HYDRANT |
| NPCW | NON POTABLE COLD WATER |
| NC | NOT IN CONTRACT |
| N2 | NITROGEN |
| NTS | NOT TO SCALE |
| OD | OUTLET |
| PH | PHASE (ELECTRIC) |
| POC | POINT OF CONNECTION |
| PSI | POUNDS PER SQUARE INCH |
| PVC | POLYVINYL CHLORIDE |
| R | ROOM |
| RD | REVISION |
| RPZ | REDUCED PRESSURE ZONE BACKFLOW PREVENTER |
| SD | STORM DRAIN |
| SS | SANITARY SEWER |
| SW | SOFT WATER |
| T&P | TEMPERATURE AND PRESSURE RELIEF VALVE |
| TPV | TRAP PRIMER VALVE |
| TW | TYPICAL |
| UG | UNDERGROUND |
| UF | UNDER FLOOR |
| UN | UNLESS OTHERWISE NOTED |
| UN | UNLESS OTHERWISE NOTED |
| V | VENT |
| VAC | VACUUM |
| VTR | VENT THRU ROOF |
| W | WATT |
| W/O | WITHOUT |
| WCD | WALL CLEANOUT |
| WHA | WATER HAMMER ARRESTOR |
| X | EXISTING TO REMAIN |
| YOD | YARD CLEANOUT |
| YM | YARD HYDRANT |

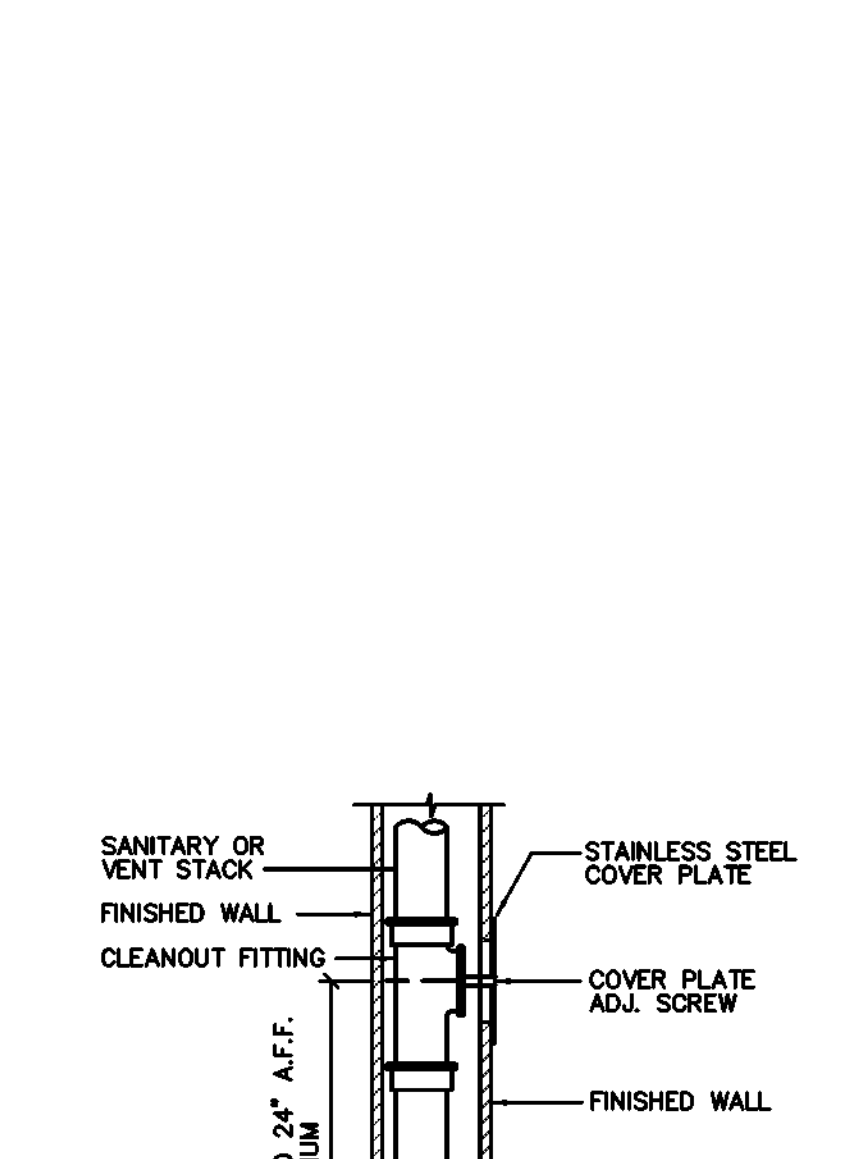
(NOTE: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS)

- PLUMBING - GENERAL NOTES:**
- ALL PLUMBING INSTALLATIONS SHALL BE IN STRICT COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE 2021 AND ALL STATE AND LOCAL GOVERNING AUTHORITIES HAVING JURISDICTION.
 - ALL INSTALLATIONS SHALL COMPLY WITH THE INTERNATIONAL ENERGY CONSERVATION CODE 2021. DOMESTIC HOT AND COLD WATER PIPES SHALL HAVE A MINIMUM 1" THICK INSULATION UP TO 2" PIPE SIZE AND 1-1/2" THICK INSULATION ABOVE 2" PIPE SIZE. ALL WATER HEATERS NOT SERVED BY A CIRCULATING PUMP SHALL HAVE HEAT TRAPS.
 - SANITARY SEWER LINES 3 INCH AND GREATER SHALL BE SLOPED AT 1/8 INCH PER FOOT MINIMUM. SANITARY SEWER LINES 2 INCH SHALL BE SLOPED AT 1/4 INCH PER FOOT MINIMUM.
 - ALL GREASE WASTE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/4" PER FOOT.
 - CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, LOCATION, AND ELEVATION OF ALL EXISTING PLUMBING LINES AND UTILITIES.
 - CONTRACTOR SHALL REFER TO SHOP DRAWINGS OF EQUIPMENT FOR ROUGH-IN OPENINGS PRIOR TO BEGINNING WORK.
 - ALL HANDICAPPED ACCESSIBLE FIXTURES SHALL BE APPROVED TYPES WITH REQUIRED CONTROLS AND INSTALLED TO HEIGHTS AND CLEARANCES AS PRESCRIBED BY AMERICAN DISABILITIES ACT (ADA) AND TEXAS ACCESSIBILITY STANDARD (TAS). REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONED ADA MOUNTING HEIGHTS AND SPECIFIED CLEARANCES.
 - ALL WHEELCHAIR LAVATOIRES AND SINKS EXPOSED PIPING SHALL BE INSULATED. OFFSET DRAIN FITTINGS ARE REQUIRED TO PROVIDE MINIMUM CLEARANCES.
 - SELECT HANDICAPPED WATER CLOSET FLUSH LEVER OPPOSITE RESTROOM GRAB BARS.
 - MAINTAIN PIPING CLEARANCES REQUIRED BY THE NATIONAL ELECTRIC CODE ABOVE ELECTRICAL PANELS. FIELD COORDINATE WITH CONTRACTOR.
 - ALL FLOOR DRAINS AND HUB DRAINS SHALL HAVE TRAP VALVE PRIMERS. PROVIDE ACCESS PANEL WHERE NECESSARY.
 - REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION OF ROOF DRAINS AND OVERFLOW DRAINS.
 - ALL ROOF DRAIN PIPE SHALL BE SLOPED AT 1/8 INCH PER FOOT MINIMUM. ALL INTERIOR ROOF DRAIN PIPE SHALL BE INSULATED WITH 1" INSULATION.

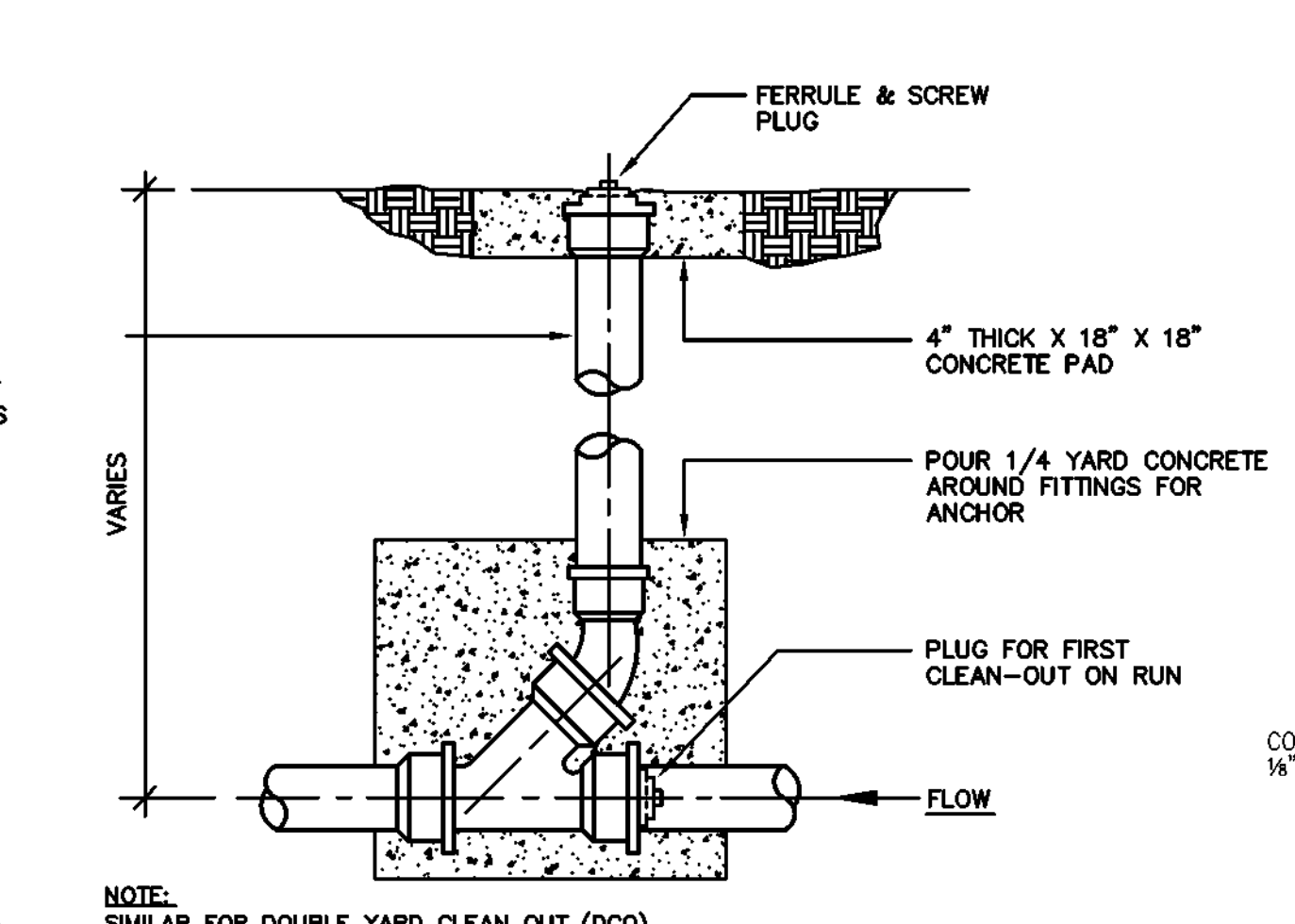
- SPRINKLER SYSTEM NOTES:**
- THE CONTRACTOR SHALL MODIFY THE EXISTING WET PIPE SPRINKLER SYSTEM AS NEEDED FOR A COMPLETE WORKING SYSTEM IN STRICT CONFORMITY WITH ALL LATEST REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, THE LOCAL FIRE DEPARTMENT, NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, AND NFPA 24 - PRIVATE FIRE SERVICE MAINS. SPRINKLER SYSTEM SHALL PROVIDE PROTECTION TO ENTIRE BUILDING. DRAWINGS DO NOT SHOW A COMPLETE SPRINKLER SYSTEM FOR THIS BUILDING. SPRINKLER MAINS, BRANCH PIPING, HEADS, ETC., ARE NOT SHOWN.
 - SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED. SUBMIT COMPLETE CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL. THE CONTRACTOR SHALL NOT BEGIN INSTALLATION OF THE SPRINKLER SYSTEM UNTIL APPROVAL OF THE SHOP DRAWINGS AND CALCULATIONS HAVE BEEN OBTAINED BY THE CONTRACTOR, THE OWNER'S FIRE INSURANCE COMPANY, THE AUTHORITY HAVING JURISDICTION AND THE ENGINEER.
 - CONTRACTOR SHALL CONDUCT FLOW TEST TO ESTABLISH EXACT FLOW AND PRESSURE AVAILABLE ON THE SITE FOR PREPARATION OF HIS HYDRAULIC CALCULATIONS.
 - COORDINATE LOCATION AND RELOCATION OF SPRINKLER HEADS WITH LIGHT FIXTURES, CEILING DIFFUSERS, GRILLES, AND ARCHITECTURAL CEILING GRID. PROVIDE PIPING OFFSETS AS REQUIRED. RECESS SPRINKLER HEADS IN OFFICE CEILING WITH CHROME ESCUTCHEONS. CENTER HEAD IN CEILING TILE IN ONE DIRECTION ONLY AND ADJUST OTHER DIRECTION AS NEEDED.
 - SPRINKLER SYSTEM SHALL COVER ENTIRE BUILDING. OCCUPANCY CLASSIFICATIONS SHALL BE PER NFPA 13 HAZARD CLASSIFICATIONS ARE PER LOCAL FIRE MARSHAL APPROVAL.
 - THE WATER SUPPLY FOR EACH SPRINKLER SYSTEM SHALL HAVE A LISTED INDICATING CONTROL VALVE IN AN APPROVED, ACCESSIBLE LOCATION. SPRINKLER CONTROL VALVES SHALL BE 175 PSI, U.L. APPROVED, O, S, & Y GATE VALVES.
 - CONTROL VALVES MORE THAN 17' - 0" ABOVE FLOOR SHALL BE ACCESSIBLE BY MEANS OF A PERMANENT IRON LADDER AS PER NFPA 13.
 - INSTALL FIRE DEPARTMENT HOSE CONNECTION WITHIN 100 FEET OF SITE FIRE HYDRANT.
 - SPRINKLERS SHALL BE 1/2 INCH ORIFICE, SEMI-RECESSED, PENDENT TYPE WHERE CEILING IS INSTALLED AND UPRIGHT TYPE WHERE NO CEILING IS INSTALLED.
 - ALL SPRINKLER SYSTEM COMPONENTS SHALL BE OF LISTED AND APPROVED TYPE.
 - ALL HANGER COMPONENTS SHALL BE OF LISTED AND APPROVED TYPE.
 - PIPING SHALL BE HUNG FROM STRUCTURAL ELEMENTS. PIPING SHALL NOT BE HUNG FROM DUCTWORK OR FROM BOTTOM CHORD OF OPEN WEB STEEL BAR JOIST.
 - PIPING 1-1/2" AND LARGER SHALL BE STEEL SCHEDULE 10, ASTM-A-135 AND ASTM-A-253. FITTINGS SHALL BE WELDED OR APPROVED GROOVE TYPE ON ROLLED PIPE.
 - PIPING 1-1/4" AND SMALLER SHALL BE BLACK STEEL, SCHEDULE 40, ASTM 53. FITTINGS SHALL BE CLASS 125 SCREW TYPE.
 - CONTRACTOR SHALL RUN AND PAY FOR ALL TEST REQUIRED TO ENSURE THAT THE SYSTEM HAS ADEQUATE FLOW AND PRESSURE.
 - CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS.
 - CONTRACTOR SHALL BE RESPONSIBLE DURING INSTALLATION AND TESTING FOR ANY DAMAGE CAUSED BY LEAKS.



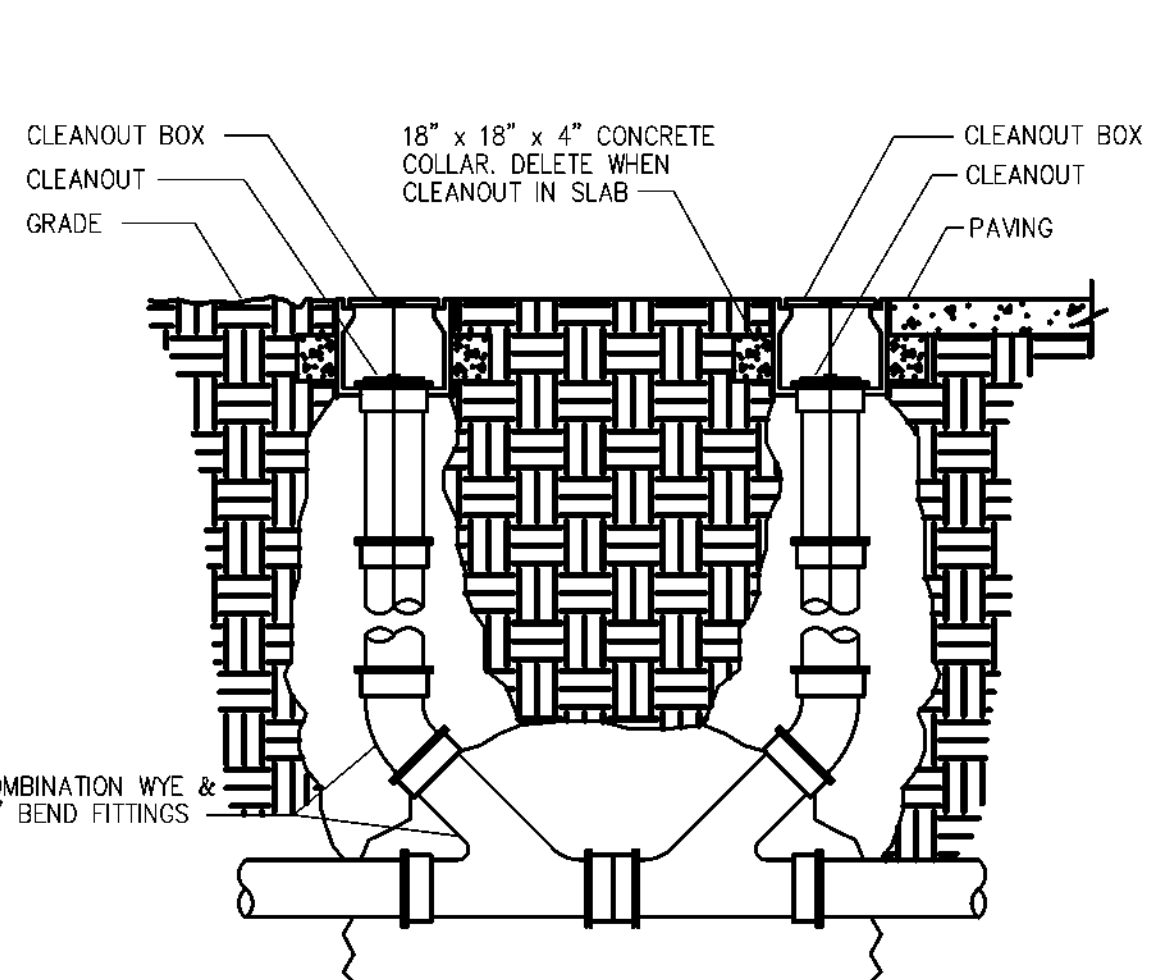
1 PIPE HANGING DETAIL
SCALE: NOT TO SCALE



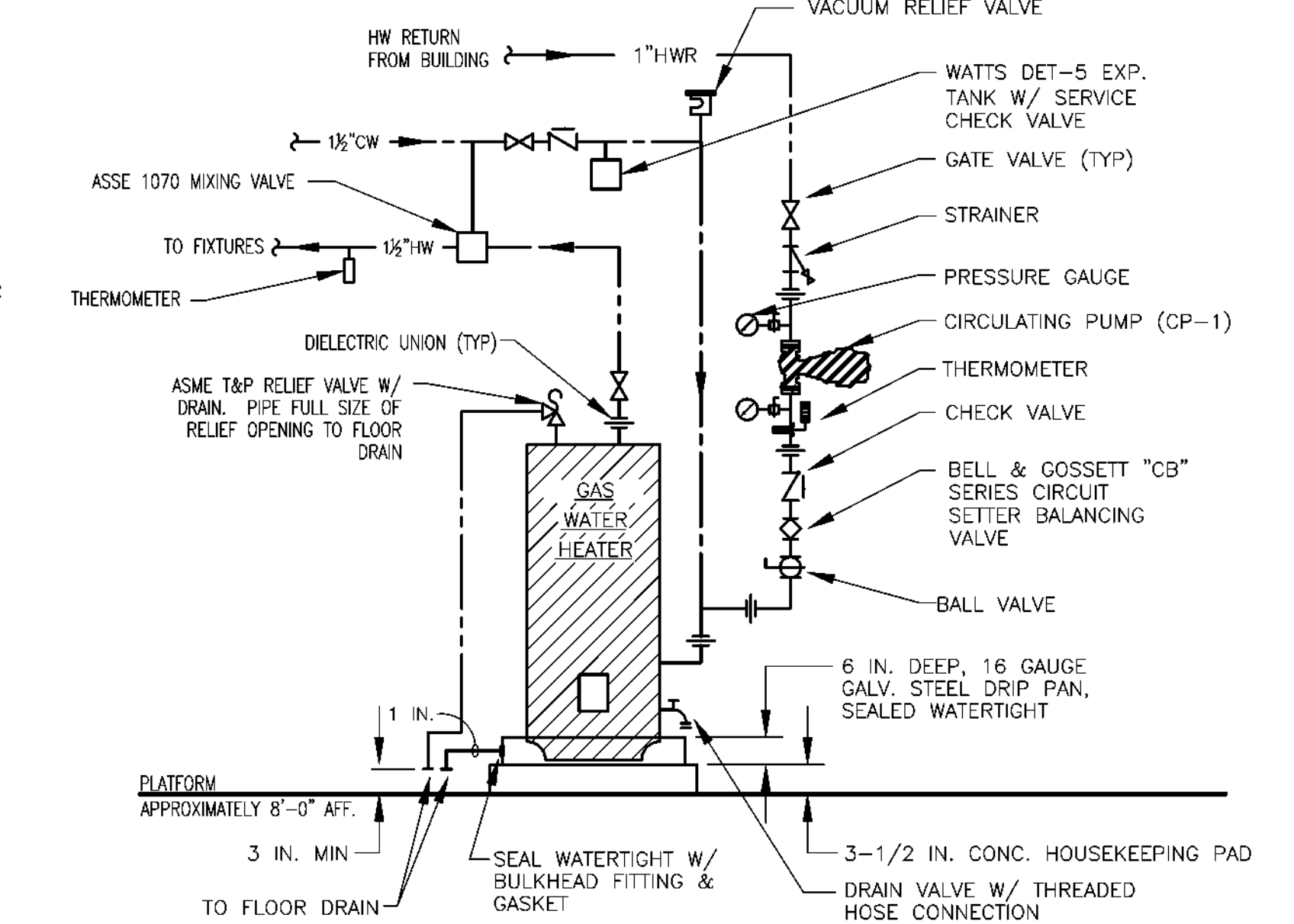
2 WALL CLEANOUT DETAIL
SCALE: NOT TO SCALE



3 GRADE CLEANOUT (GCO) DETAIL
SCALE: NOT TO SCALE



4 DOUBLE YARD CLEANOUT DETAIL
SCALE: NOT TO SCALE



5 GAS WATER HEATER DETAIL
SCALE: NOT TO SCALE

Sample Well Basin

| MODEL | DIAMETER & OUT. WIDTH | INLET | OUTLET |
|---------|-----------------------|-------|--------|
| SWB-154 | 15\"/> | | |

NOTES:

- SAMPLING WELL MUST BE INSTALLED UNDER A SEPARATE PLUMBING PERMIT.
- USE 18\"/>

SPECIFICATIONS:

CONCRETE: Class 1/3 concrete with design strength of 4500 PSI @ 28 days. Use 1/2\"/>

C.I. CASTINGS: Cast iron rings and gaskets are manufactured of gray cast iron conforming to ASTM A48 Class 30, except gaskets conforming to ASTM A193.

PARK A Northwest Pipe Company

SCALE: NONE DWS: NONE REV: A
DATE: 10/2021 SWB-1

| PLUMBING FIXTURE SCHEDULE | | | |
|---------------------------|-------------------------|--|---|
| MARK | DESCRIPTION | MANUFACTURER & MODEL NO. | REMARKS |
| S-1 | SINK-ADA | ELKAY MODEL:RAD 1517 | 18\"/> |
| NFWH | NON FREEZE WALL HYDRANT | WOODFORD MODEL: B65 | ANTI-SIPHON VACUUM BREAKER, AUTOMATIC DRAINING, FREEZE LESS, LOOSE KEY. INSTALL SHUT OFF VALVE ON WATER SUPPLY LINE SERVING WALL HYDRANT. |
| FD-1 | FLOOR DRAIN | J.R. SMITH MODEL: ZN-415-P | 12 INCH ROUND NICKEL TOP, 1/2\"/> |
| FS-1 | FLOOR SINK | ZURN MODEL: Z-1901 | 12\"/> |
| WCO | WALL CLEANOUT | ZURN MODEL: Z-1446 | SIZES SHOWN ON DRAWINGS |
| TPV | TRAP PRIMER | PRECISION PLUMBING PRODUCTS MODEL: P-1 | 1/2\"/> |
| WHA | WATER HAMMER ARRESTER | ZURN MODEL: Z-1700 | LOCATION SHOWN ON RISER DIAGRAMS |

| GAS WATER HEATER SCHEDULE | | | | | | |
|---------------------------|--------------------|---------------------|-------------|----------------|----------------------|------------------------------------|
| MARK | SERVICE | NAT. GAS INPUT BTUH | MIN. EFF. % | TANK SIZE GAL. | RECOVERY GPH @ 100°F | REMARKS |
| GWH-1 | DOMESTIC HOT WATER | 19,000 | 97 | 100 | 235 | 1201 A.O. SMITH BTH-199, NOTES 1-4 |

- NOTES:**
- FURNISH W/ 5-YEAR TANK WARRANTY.
 - FURNISH W/ CONCENTRIC VENT TERMINATION FOR DIRECT VENTING.
 - FURNISH WITH ACID NEUTRALIZATION BASIN.
 - FURNISH THE UNIT SCHEDULED OR EQUAL BY LOCHINVAR OR RBL.

| CIRCULATING PUMP | | | | | | | | |
|------------------|----------------|-----------|-----------------|----------------|--------------------|------------------|----------------------------|------------------------|
| MARK | SERVICE | LOCATION | FLOW RATE (GPM) | PUMP HEAD (FT) | MOTOR SIZE (WATTS) | PUMP SPEED (RPM) | ELECTRICAL CHARACTERISTICS | REMARKS |
| CP-1 | HW CIRCULATION | MECH ROOM | 3 | 15 | 45 | 3 SPEED | 110V/ 60 HZ/ 1 PH | GRINDPOS ALPHA 15-55SP |

- NOTES:**
- CIRCULATING PUMP SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
 - DOMESTIC WATER CIRCULATING PUMPS SHALL HAVE NO STEEL OR CAST IRON WEITED PARTS. PUMPS SHALL HAVE BRONZE OR STAINLESS STEEL WEITED PARTS.
 - FURNISH RECIRC PUMP WITH MANUFACTURERS TIMECLOCK. COORDINATE SCHEDULE WITH OWNER PRIOR TO TURNING THE SYSTEM OVER.

Grease Interceptor

| MODEL | CAPACITY (GPM) | GRADE | DEPTH | LENGTH | WIDTH | HEIGHT | INLET | OUTLET |
|---------|----------------|-------|--------|--------|-------|--------|-------|--------|
| GT-100 | 1,000 | 2,000 | 13,500 | 8'-0" | 8'-0" | 4'-0" | 8'-0" | 4'-0" |
| GT-1200 | 1,200 | 2,400 | 14,000 | 9'-0" | 9'-0" | 4'-0" | 8'-0" | 4'-0" |
| GT-1500 | 1,500 | 3,000 | 14,000 | 9'-0" | 9'-0" | 4'-0" | 8'-0" | 4'-0" |
| GT-2000 | 2,000 | 4,000 | 14,500 | 9'-0" | 9'-0" | 4'-0" | 8'-0" | 4'-0" |

SPECIFICATIONS:

CONCRETE: CLASS 1/3 CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL AND FLOOR WITH SECTIONS. HERE TO REQUIRED DEPTH. MONOLITHIC BATTLE REQUIRED. SLIDE-IN TYPE NOT ACCEPTABLE.

REINFORCEMENT: GRADE SO REINFORCED WITH STEEL BARS CONFORMING TO ASTM A618 OR REQUIRED CODES OR LOCAL.

C.I. CASTINGS: HANDLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF DUCTILE CAST IRON CONFORMING TO ASTM A156-10. CLASS 30 UNLESS OTHERWISE SPECIFIED. DIMENSIONS SHALL BE NOMINAL 24 INCH DIAMETER AND BE TRAFFIC RATED.

Engineering Data: THE GREASE INTERCEPTOR IS STRUCTURALLY & HYDRAULICALLY ENGINEERED TO CONFORM TO UPC AND NATIONAL PLUMBING CODE RECOMMENDATIONS. IT IS NOT TO BE USED FOR ANY OTHER PURPOSES. THE GREASE INTERCEPTOR IS A SAMPLE WELL TO BE UTILIZED ON THE OUTLET SIDE FOR SAMPLING BY THE LOCAL WATER AUTHORITY.

SHOP DRAWINGS SHALL INCLUDE COMPLETE STRUCTURAL & HYDRAULIC CALCULATIONS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER FROM HEREIN.

CONSULT PARTNER FOR EXACT DIMENSION DIMENSIONS & SHIPPING INFORMATION.

PARK A Northwest Pipe Company

SCALE: NONE DWS: NONE REV: A
DATE: 05/22 GT-02

| GREASE INTERCEPTOR (GT-1) SCHEDULE | |
|--|-------------------------------------|
| CALCULATION AND SIZING DATA | |
| PEAK MEALS/HOUR: | 40 MEALS/HR |
| WASTE FLOW RATE: | W/O DISHWASHING MACHINE → 5 GALLONS |
| RETENTION TIME: | SINGLE SERVING KITCHEN → 1.5 HOURS |
| STORAGE FACTOR: | 8 HOURS → 1.0 |
| GREASE OUTPUT (LBS.)= MEALS/HR x WASTE FLOW RATE x RETENTION TIME x STORAGE FACTOR / QUARTER: | = 300 GALLON CAPACITY |
| DESCRIPTION/SPECIFICATION | |
| GREASE INTERCEPTOR SHALL HAVE 75 GPM FLOW CAPACITY AND A MINIMUM OF 1000 GALLON CAPACITY. GREASE INTERCEPTOR SHALL BE EQUAL TO PARK ENVIRONMENTAL GT-1000 AND HAVE 2,000 POUNDS GREASE CAPACITY. | |

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ARCHITECT:

jma johnson ARCHITECTS

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KEY PLAN

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Sheet Title: DETAILS & SCHEDULES PLUMBING
Sheet Number: P001



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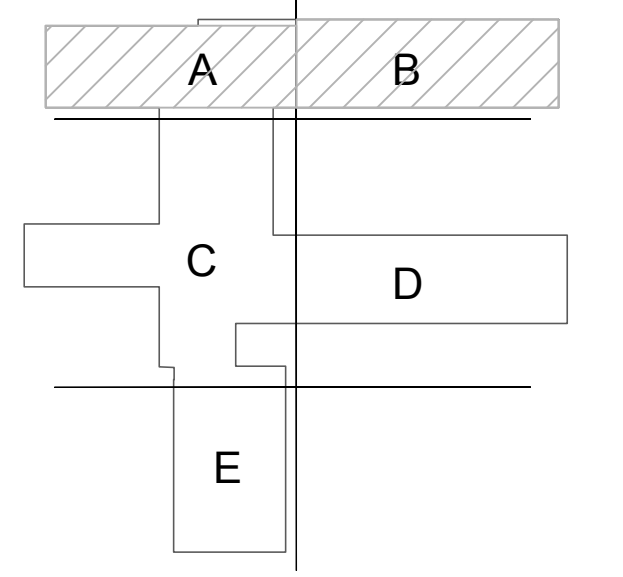
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KEY PLAN



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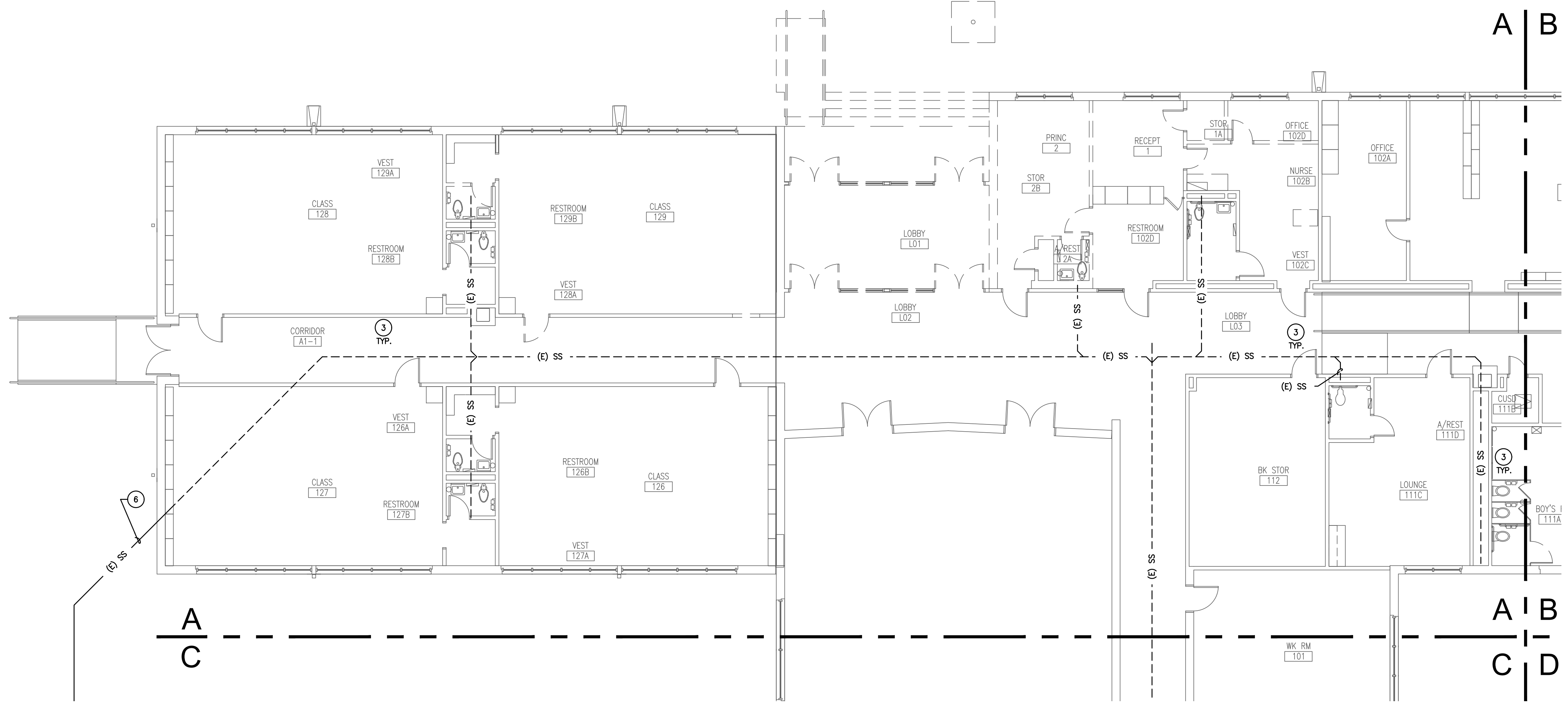
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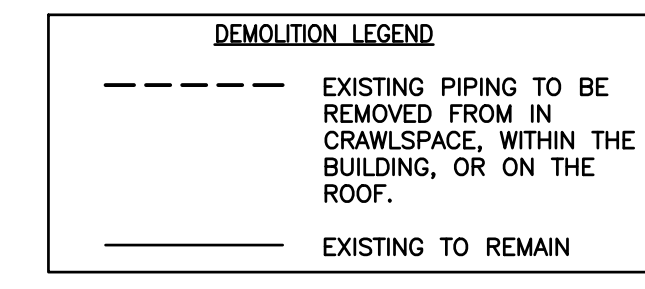
UNDERFLOOR PLAN
PLUMBING DEMO

Sheet Number

P101

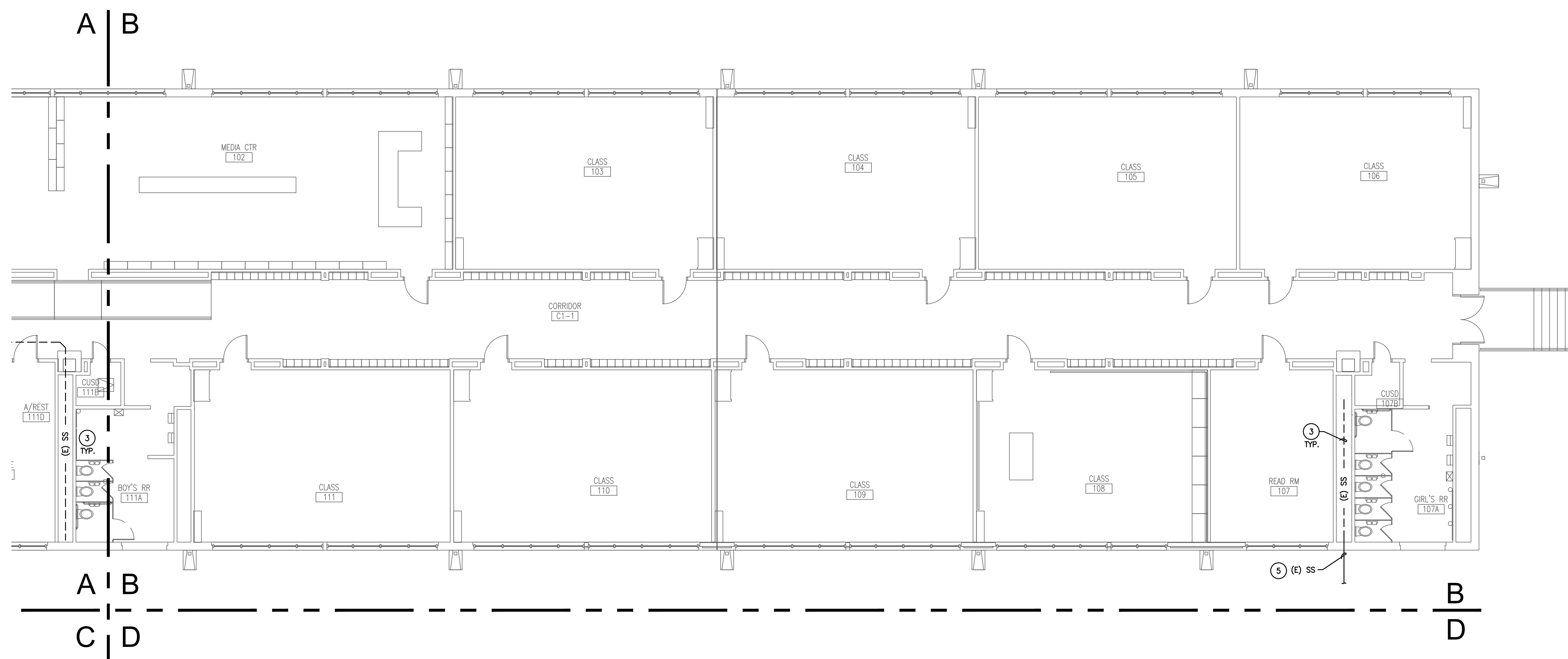


1 UNDERFLOOR PLAN - AREA 'A' - PLUMBING DEMO
SCALE: 1/8" = 1'-0"



- GENERAL PLUMBING NOTES:
- EVERY NOTE INDICATED BY SYMBOL IS NOT NECESSARILY USED ON THIS SHEET.
 - CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
 - FOR ALL EXISTING PLUMBING FIXTURES TO REMAIN, CONTRACTOR SHALL DEMO EXISTING DOMESTIC WATER, SEWER AND VENT LINES TO A CONCEALED LOCATION BELOW THE FLOOR OR ABOVE THE CEILING AND PREPARE FIXTURE FOR RECONNECTION TO NEW PIPING WHERE POSSIBLE. WHERE RECONNECTION DIRECTLY TO EXISTING FIXTURE IS NOT POSSIBLE WITHOUT DESTRUCTION OF WALLS AND FLOOR, THE CONTRACTOR MAY LEAVE THE INACCESSIBLE PORTION OF THE EXISTING LINES TO RECONNECT TO NEW SYSTEMS. ANY ABANDONED PIPE SHALL BE CAPPED.
 - CONTRACTOR SHALL COORDINATE WITH DISD FOR ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS.

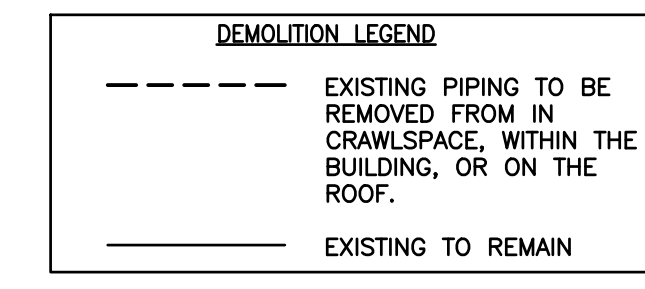
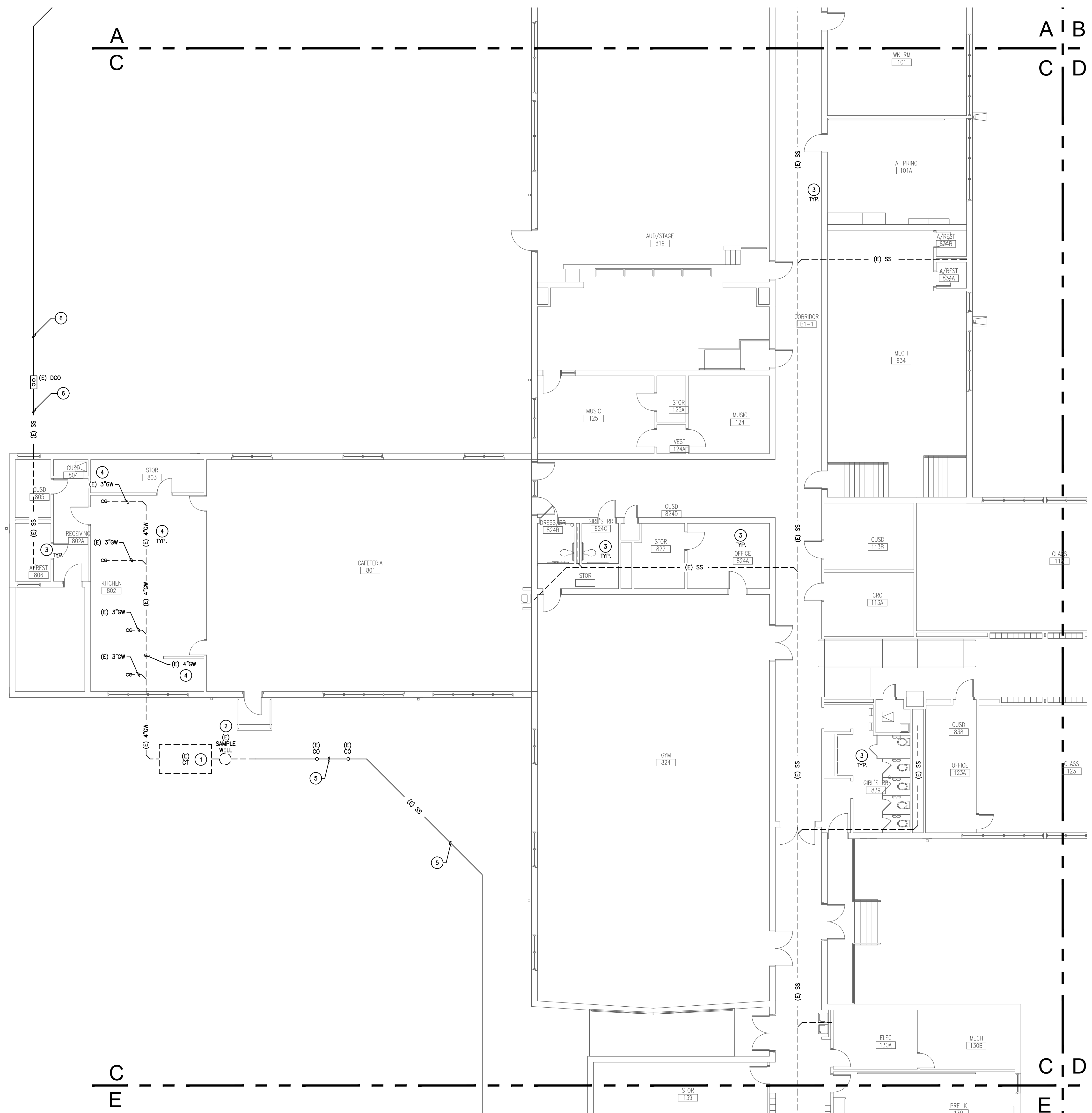
- NOTES INDICATED BY SYMBOL (1):
- REMOVE EXISTING GREASE INTERCEPTOR.
 - REMOVE EXISTING SAMPLE WELL.
 - DEMO EXISTING SANITARY SEWER LINES IN CRAWLSPACE AND CAP EXISTING LINE WHERE LINE ROUTES BELOW GROUND.
 - DEMO EXISTING GREASE WASTE LINE.
 - EXISTING SANITARY SEWER LINE SHALL REMAIN.
 - CAP AND ABANDON EXISTING SEWER LINE BELOW GROUND.



2 UNDERFLOOR PLAN - AREA 'B' - PLUMBING DEMO
SCALE: 1/8" = 1'-0"

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- GENERAL PLUMBING NOTES:**
- EVERY NOTE INDICATED BY SYMBOL IS NOT NECESSARILY USED ON THIS SHEET.
 - CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
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 - CONTRACTOR SHALL COORDINATE WITH DISD FOR ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS.

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 - REMOVE EXISTING SAMPLE WELL.
 - DEMO EXISTING SANITARY SEWER LINES IN CRAWLSPACE AND CAP EXISTING LINE WHERE LINE ROUTES BELOW GROUND.
 - DEMO EXISTING GREASE WASTE LINE.
 - EXISTING SANITARY SEWER LINE SHALL REMAIN.
 - CAP AND ABANDON EXISTING SEWER LINE BELOW GROUND.

1 UNDERFLOOR PLAN - AREA 'C' - PLUMBING DEMO
SCALE: 1/8" = 1'-0"

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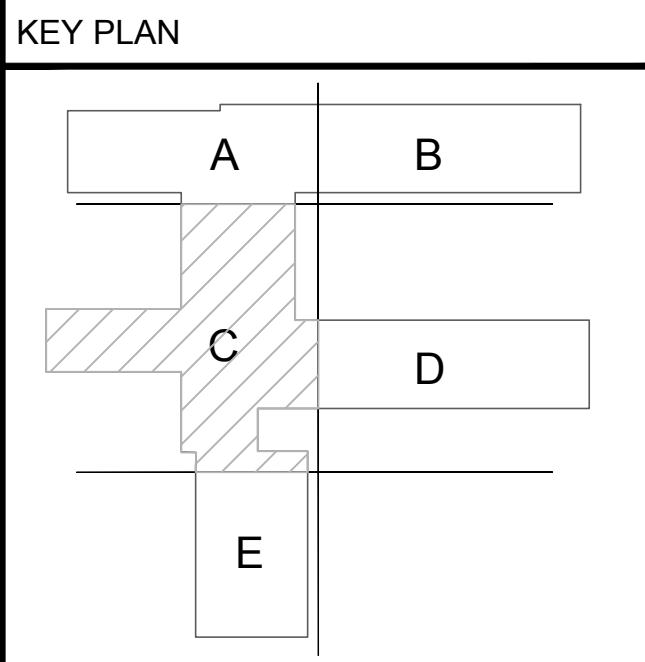
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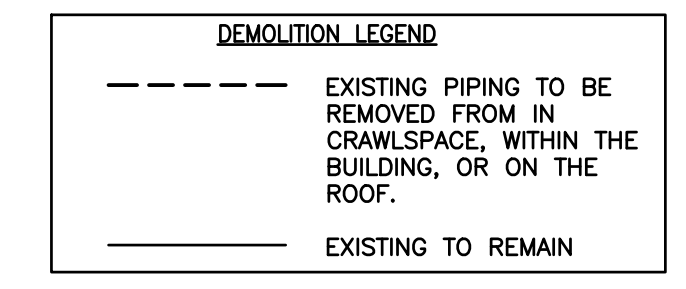
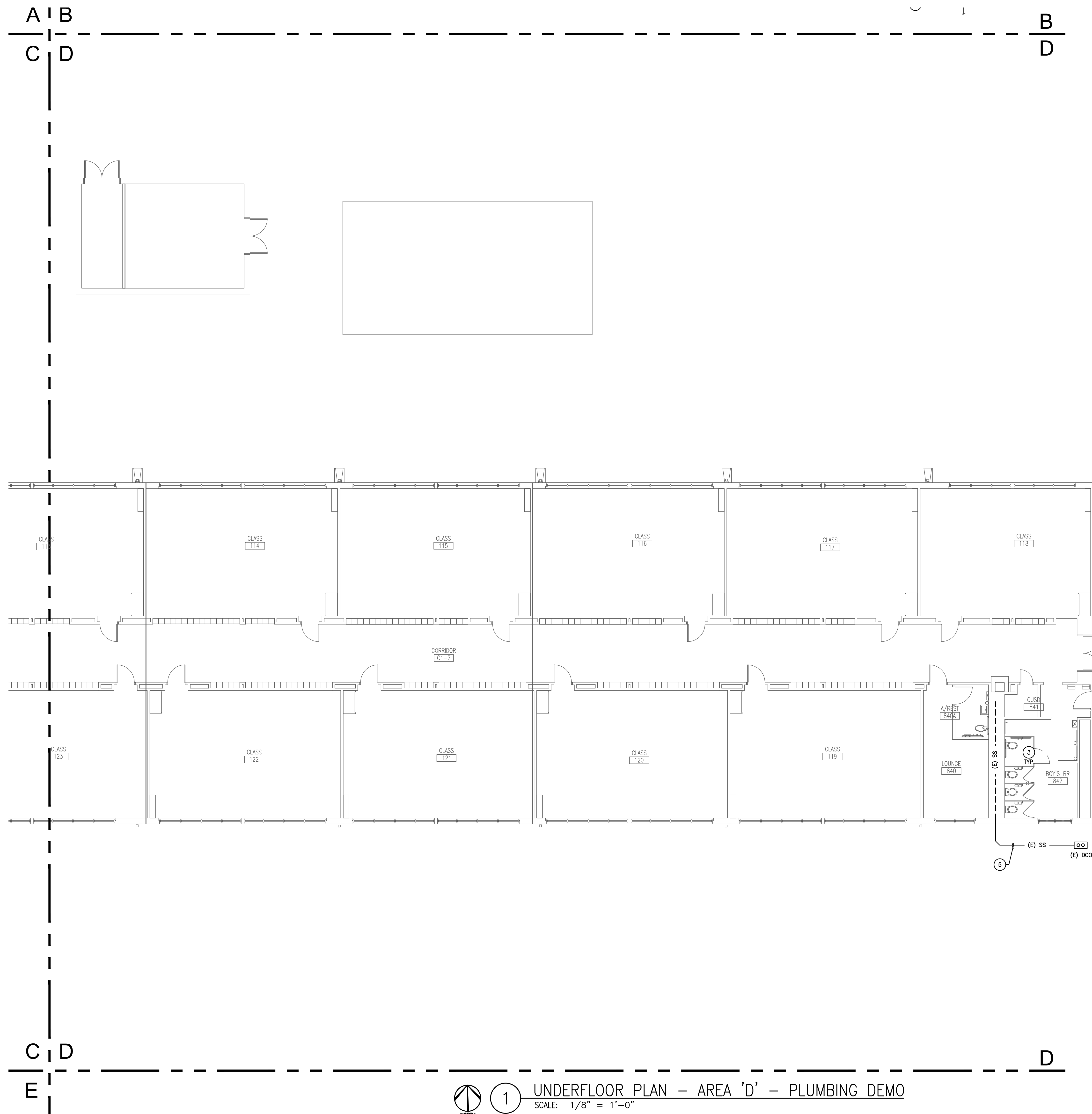
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**UNDERFLOOR PLAN
 PLUMBING DEMO**

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P102



- GENERAL PLUMBING NOTES:**
- EVERY NOTE INDICATED BY SYMBOL IS NOT NECESSARILY USED ON THIS SHEET.
 - CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
 - FOR ALL EXISTING PLUMBING FIXTURES TO REMAIN, CONTRACTOR SHALL DEMO EXISTING DOMESTIC WATER, SEWER AND VENT LINES TO A CONCEALED LOCATION BELOW THE FLOOR OR ABOVE THE CEILING AND PREPARE FIXTURE FOR RECONNECTION TO NEW PIPING WHERE POSSIBLE. WHERE RECONNECTION DIRECTLY TO EXISTING FIXTURE IS NOT POSSIBLE WITHOUT DESTRUCTION OF WALLS AND FLOOR, THE CONTRACTOR MAY LEAVE THE INACCESSIBLE PORTION OF THE EXISTING LINES TO RECONNECT TO NEW SYSTEMS. ANY ABANDONED PIPE SHALL BE GAPPED.
 - CONTRACTOR SHALL COORDINATE WITH DISD FOR ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS.

- NOTES INDICATED BY SYMBOL (F):**
- REMOVE EXISTING GREASE INTERCEPTOR.
 - REMOVE EXISTING SAMPLE WELL.
 - DEMO EXISTING SANITARY SEWER LINES IN CRAWLSPACE AND CAP EXISTING LINE WHERE LINE ROUTES BELOW GROUND.
 - DEMO EXISTING GREASE WASTE LINE.
 - EXISTING SANITARY SEWER LINE SHALL REMAIN.
 - CAP AND ABANDON EXISTING SEWER LINE BELOW GROUND.

1 UNDERFLOOR PLAN – AREA 'D' – PLUMBING DEMO
 SCALE: 1/8" = 1'-0"

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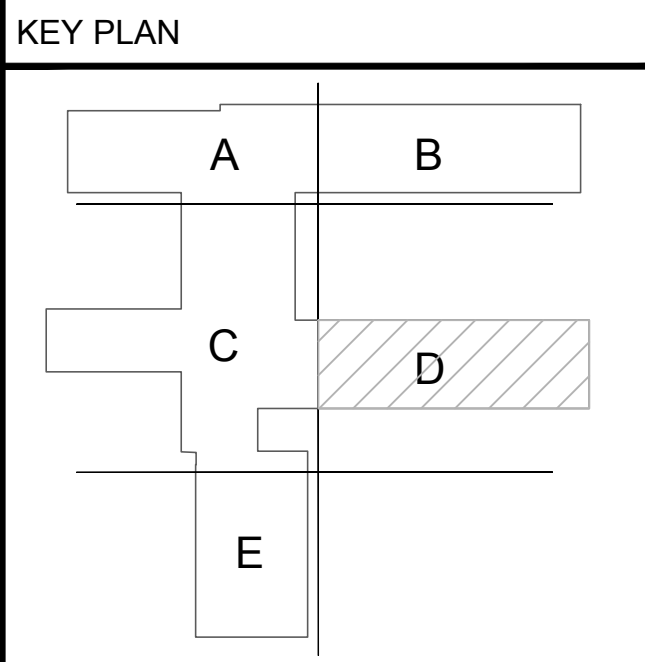
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**UNDERFLOOR PLAN
 PLUMBING DEMO**
 Sheet Number

P103

ARCHITECT:



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Phone: (214) 745-7070
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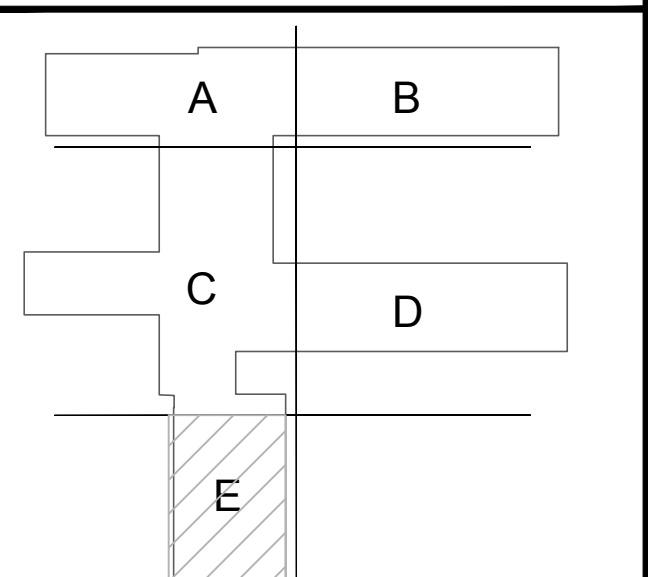
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KEY PLAN



JMA Project Number:

Date: 08/09/2024

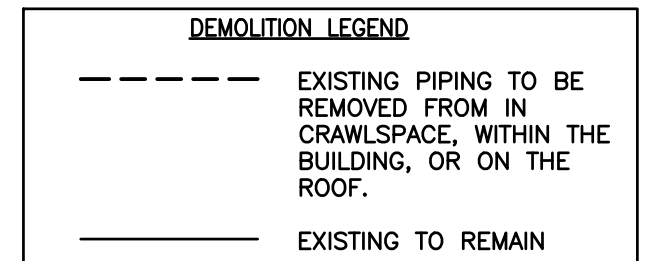
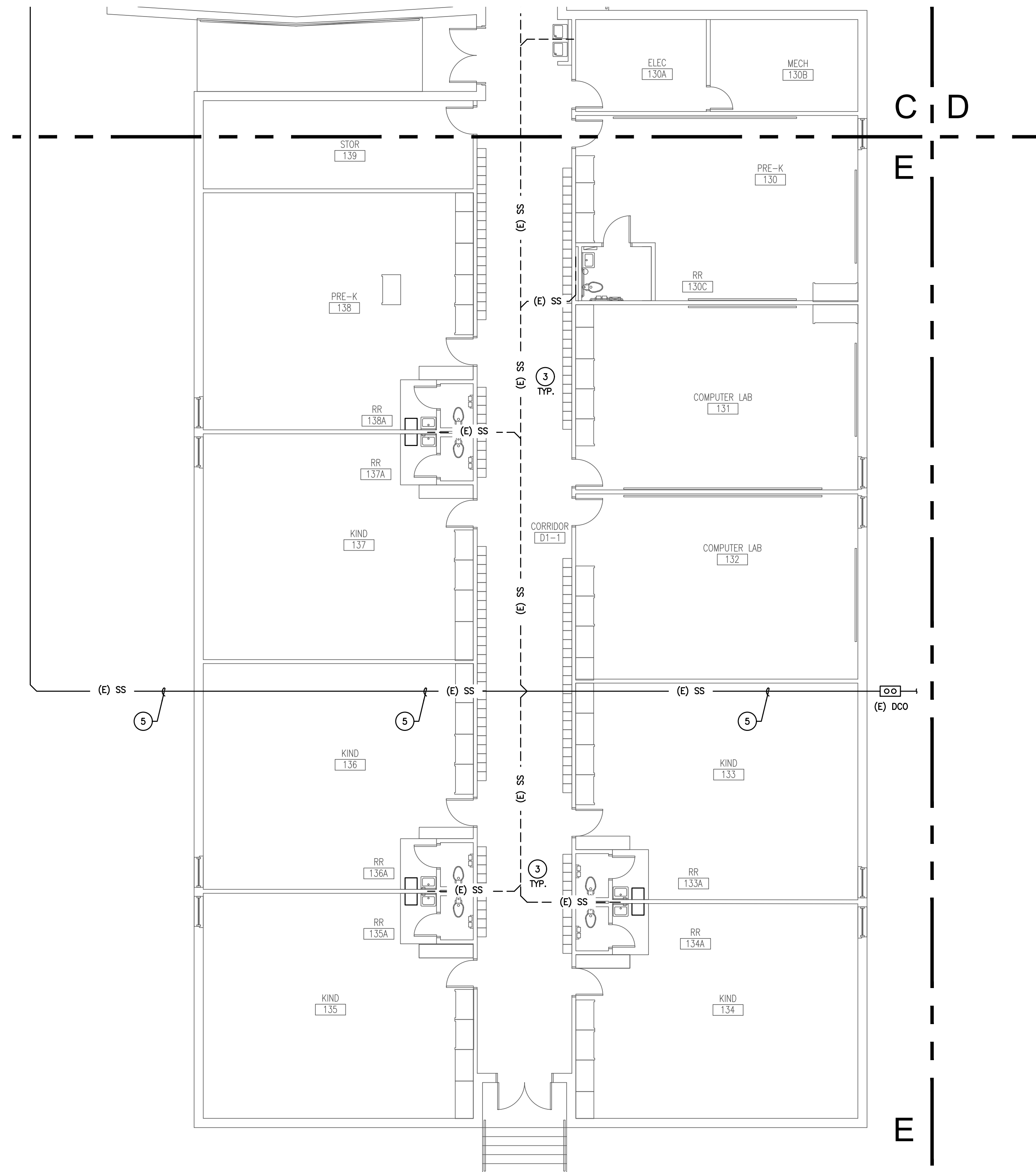
Scale:

Sheet Title

UNDERFLOOR PLAN
PLUMBING DEMO

Sheet Number

P104



GENERAL PLUMBING NOTES:

- EVERY NOTE INDICATED BY SYMBOL IS NOT NECESSARILY USED ON THIS SHEET.
- CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
- FOR ALL EXISTING PLUMBING FIXTURES TO REMAIN, CONTRACTOR SHALL DEMO EXISTING DOMESTIC WATER, SEWER AND VENT LINES TO A CONCEALED LOCATION BELOW THE FLOOR OR ABOVE THE CEILING AND PREPARE FIXTURE FOR RECONNECTION TO NEW PIPING WHERE POSSIBLE. WHERE RECONNECTION DIRECTLY TO EXISTING FIXTURE IS NOT POSSIBLE WITHOUT DESTRUCTION OF WALLS AND FLOOR, THE CONTRACTOR MAY LEAVE THE INACCESSIBLE PORTION OF THE EXISTING LINES TO RECONNECT TO NEW SYSTEMS. ANY ABANDONED PIPE SHALL BE CAPPED.
- CONTRACTOR SHALL COORDINATE WITH DISD FOR ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS.

NOTES INDICATED BY SYMBOL (1)

- REMOVE EXISTING GREASE INTERCEPTOR.
- REMOVE EXISTING SAMPLE WELL.
- DEMO EXISTING SANITARY SEWER LINES IN CRAWLSPACE AND CAP EXISTING LINE WHERE LINE ROUTES BELOW GROUND.
- DEMO EXISTING GREASE WASTE LINE.
- EXISTING SANITARY SEWER LINE SHALL REMAIN.
- CAP AND ABANDON EXISTING SEWER LINE BELOW GROUND.



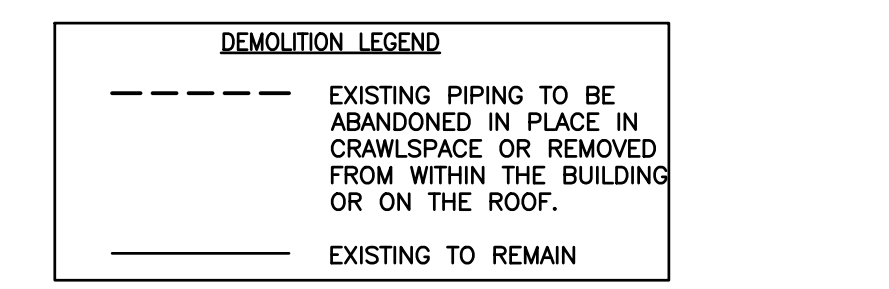
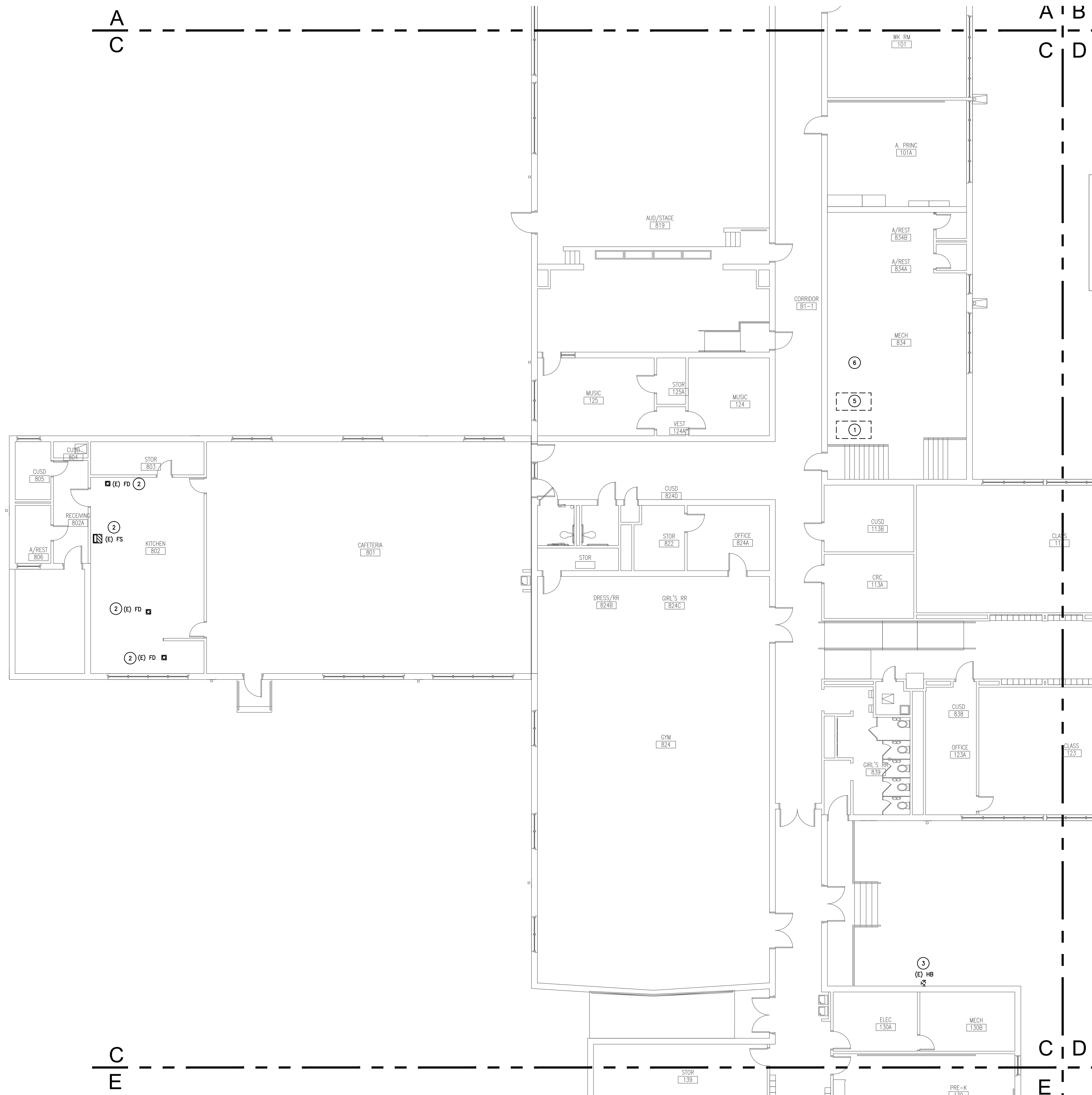
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UNDERFLOOR PLAN - AREA 'E' - PLUMBING DEMO

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

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- GENERAL PLUMBING NOTES:**
- EVERY KEYED NOTE IS NOT NECESSARILY USED ON THIS SHEET.
 - CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
 - ALL EXISTING PLUMBING FIXTURES REMAINING AFTER DEMO SHALL BE RECONNECTED TO DOMESTIC WATER, VENT AND SEWER AS NEEDED WHETHER OR NOT THE FIXTURE IS INDICATED ON THIS SET OF PLANS.
 - ALL GAS PIPING SHALL BE PAINTED YELLOW.
 - CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.

- NOTES INDICATED BY SYMBOL (1):**
- REMOVE TWO EXISTING HOT WATER STORAGE TANKS AND METAL RACK SUPPORTING THE TANKS. DEMO ASSOCIATED HOT WATER PIPING TO THE POINT WHERE IT EXISTING THE BOILER ROOM AND PREPARE FOR CONNECTION TO NEW PIPING PER THE P2.X SERIES PLANS.
 - REMOVE EXISTING FLOOR SINK OR FLOOR DRAIN.
 - REMOVE EXISTING HOSE BIBB. PREPARE EXISTING CW LINE FOR RECONNECTION TO NEW NON-FREEZE WALL HYDRANT. REFER TO P2XX SERIES FOR LOCATION.
 - DEMO EXISTING PLUMBING FIXTURE. DEMO EXISTING PLUMBING LINES TO A CONCEALED LOCATION ABOVE CEILING OR BELOW FINISHED FLOOR AND CAP.
 - DEMO EXISTING LOCHINVAR DOMESTIC HOT WATER BOILER. DEMO ASSOCIATED PUMPS, MIXING VALVE, AND HOT WATER PIPING TO THE POINT WHERE THE PIPING EXISTING THE BOILER ROOM. PREPARE EXISTING HOT WATER PIPING AND GAS LINE FOR CONNECTION TO NEW PIPING PER THE P2.X SERIES PLANS.
 - EXISTING BOILER AT THIS APPROXIMATE LOCATION IS BEING DEMOED AS A PART OF THE MECHANICAL SCOPE. CAP EXISTING GAS LINE AT THIS LOCATION.

1 FLOOR PLAN - AREA 'C' - PLUMBING DEMO
 SCALE: 1/8" = 1'-0"

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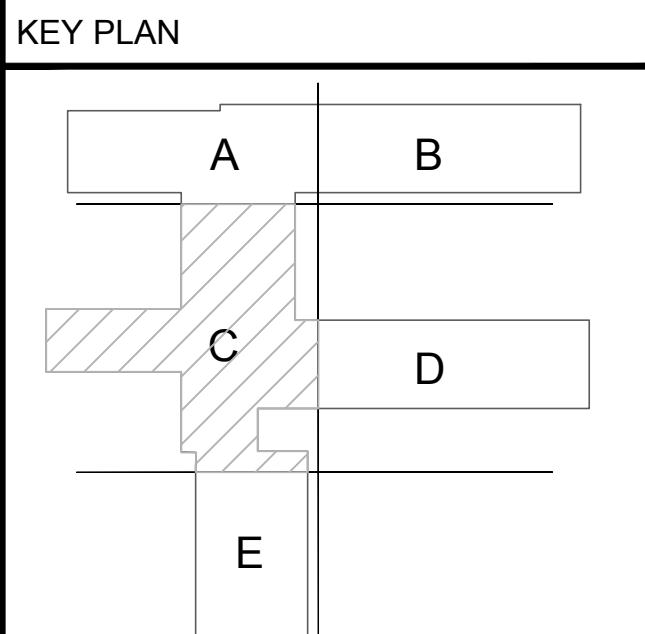
CONSULTANT:

OWNER'S REPRESENTATIVE:
 DALLAS ISD CONSTRUCTION BOND SERVICES
 9400 NORTH CENTRAL EXPRESSWAY SUITE 800
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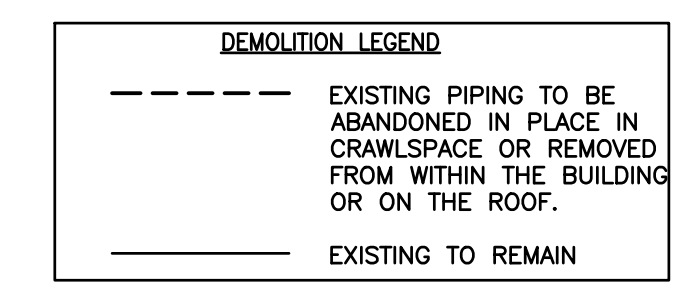
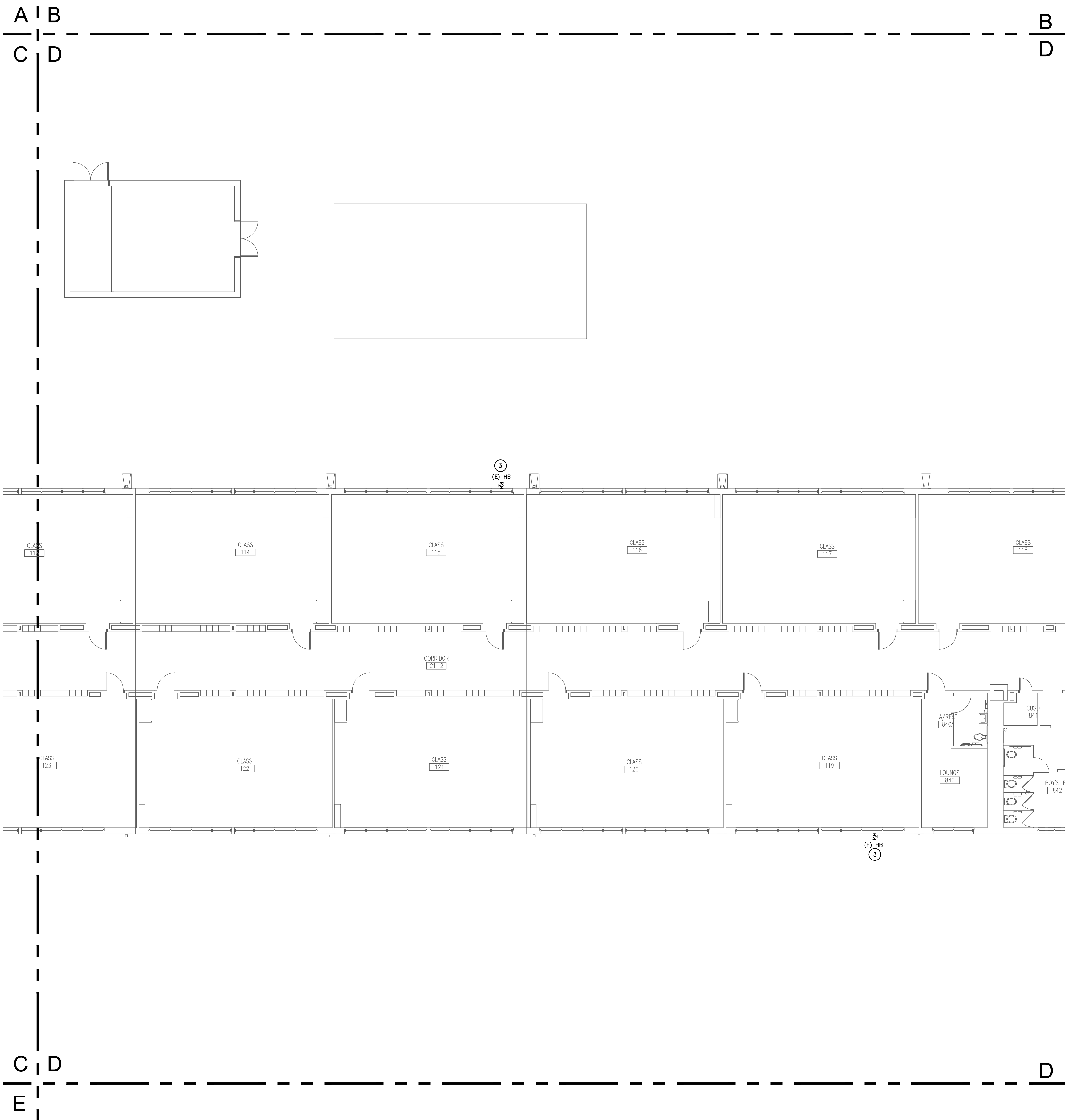
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JMA Project Number:
 Date: 08/09/2024
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Sheet Title
**FLOOR PLAN
 PLUMBING DEMO**
 Sheet Number
P112



- GENERAL PLUMBING NOTES:**
- EVERY KEYED NOTE IS NOT NECESSARILY USED ON THIS SHEET.
 - CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
 - ALL EXISTING PLUMBING FIXTURES REMAINING AFTER DEMO SHALL BE RECONNECTED TO DOMESTIC WATER, VENT AND SEWER AS NEEDED WHETHER OR NOT THE FIXTURE IS INDICATED ON THIS SET OF PLANS.
 - ALL GAS PIPING SHALL BE PAINTED YELLOW.
 - CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.

- NOTES INDICATED BY SYMBOL (E):**
- REMOVE TWO EXISTING HOT WATER STORAGE TANKS AND METAL RACK SUPPORTING THE TANKS. DEMO ASSOCIATED HOT WATER PIPING TO THE POINT WHERE IT EXISTING THE BOILER ROOM AND PREPARE FOR CONNECTION TO NEW PIPING PER THE P2.X SERIES PLANS.
 - REMOVE EXISTING FLOOR SINK OR FLOOR DRAIN.
 - REMOVE EXISTING HOSE BIBB. PREPARE EXISTING CW LINE FOR RECONNECTION TO NEW NON-FREEZE WALL HYDRANT. REFER TO P2XX SERIES FOR LOCATION.
 - DEMO EXISTING PLUMBING FIXTURE. DEMO EXISTING PLUMBING LINES TO A CONCEALED LOCATION ABOVE CEILING OR BELOW FINISHED FLOOR AND CAP.
 - DEMO EXISTING LOCHINVAR DOMESTIC HOT WATER BOILER. DEMO ASSOCIATED PUMPS, MIXING VALVE, AND HOT WATER PIPING TO THE POINT WHERE THE PIPING EXISTING THE BOILER ROOM. PREPARE EXISTING HOT WATER PIPING AND GAS LINE FOR CONNECTION TO NEW PIPING PER THE P2.X SERIES PLANS.
 - EXISTING BOILER AT THIS APPROXIMATE LOCATION IS BEING DEMOED AS A PART OF THE MECHANICAL SCOPE. CAP EXISTING GAS LINE AT THIS LOCATION.

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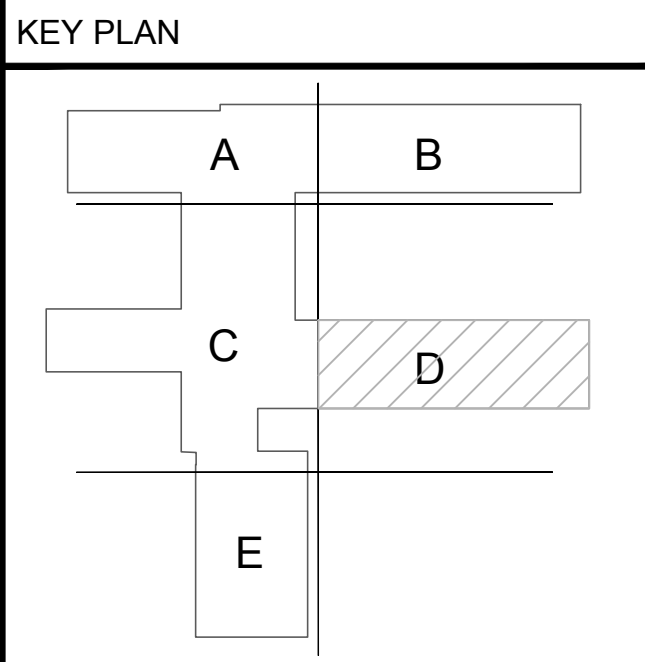
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1 FLOOR PLAN - AREA 'D' - PLUMBING DEMO
SCALE: 1/8" = 1'-0"



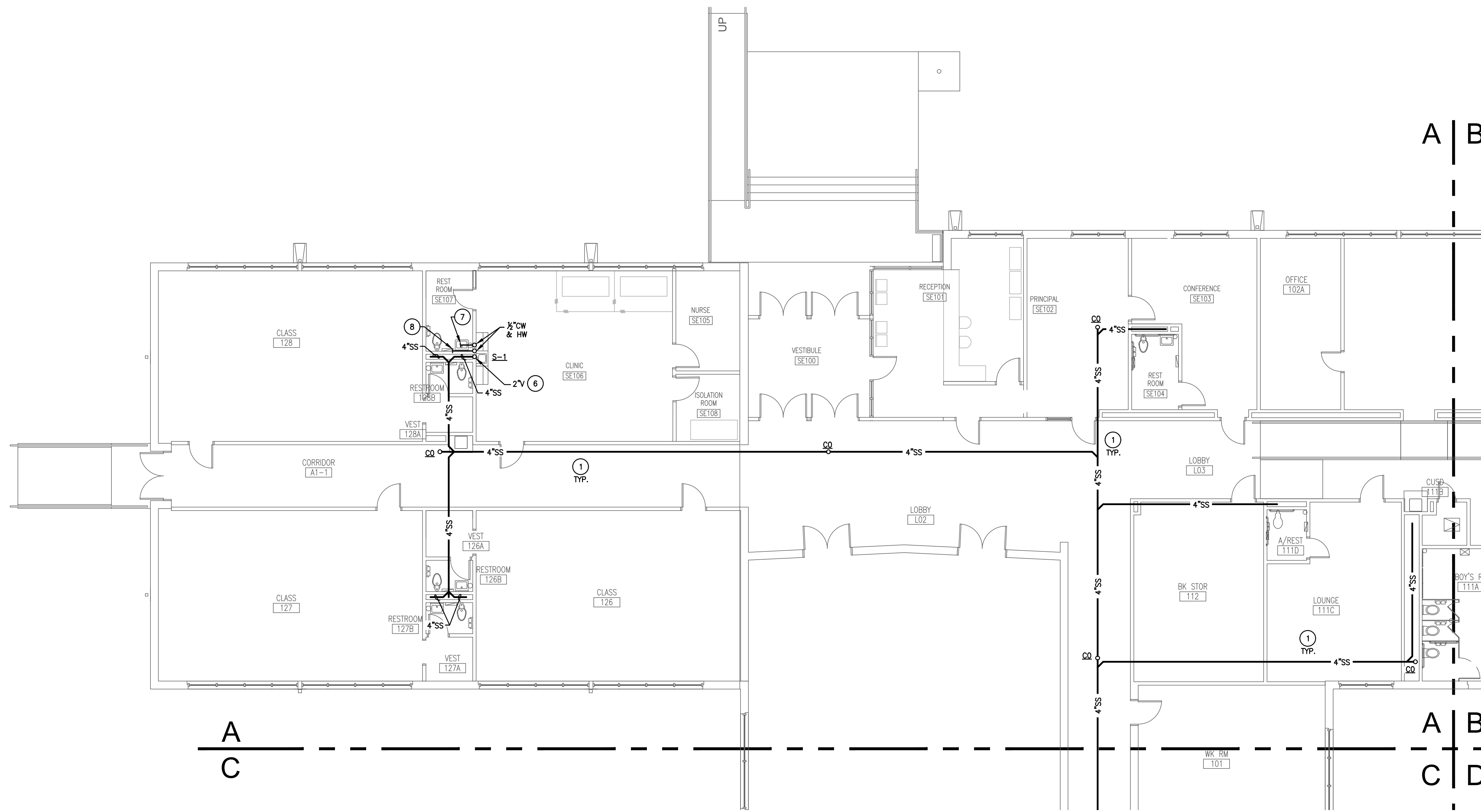
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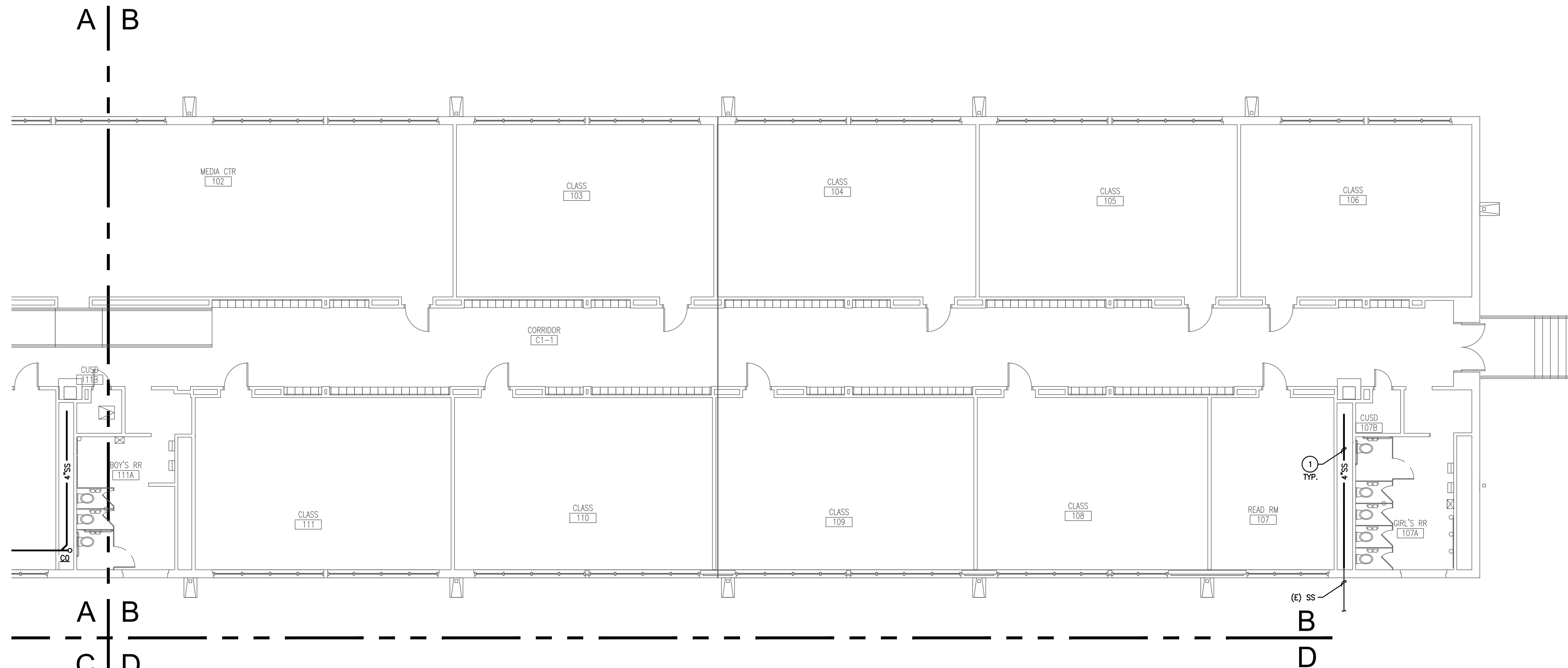
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1 UNDERFLOOR PLAN - AREA 'A' - PLUMBING
 SCALE: 1/8" = 1'-0"

- GENERAL PLUMBING NOTES:**
- EVERY KEYED NOTE IS NOT NECESSARILY USED ON THIS SHEET.
 - CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
 - ALL EXISTING PLUMBING FIXTURES REMAINING AFTER DEMO SHALL BE RECONNECTED TO DOMESTIC WATER, VENT AND SEWER AS NEEDED WHETHER OR NOT THE FIXTURE IS INDICATED ON THIS SET OF PLANS.
 - ALL GAS PIPING SHALL BE PAINTED YELLOW.
 - CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.
- NOTES INDICATED BY SYMBOL:**
- FURNISH AND INSTALL NEW SANITARY SEWER LINES IN THE CRAWLSPACE AS SHOWN. CONTRACTOR SHALL CONNECT ALL EXISTING PLUMBING FIXTURES TO NEW SANITARY SEWER LINES.
 - FURNISH AND INSTALL NEW GREASE WASTE LINES TO NEW GREASE INTERCEPTOR AS SHOWN.
 - 4" CW LINE OUT TO GREASE INTERCEPTOR GT-1. GREASE INTERCEPTOR SHALL BE FURNISHED AND INSTALLED AS SCHEDULED AND PER MANUFACTURER RECOMMENDATIONS.
 - FURNISH AND INSTALL NEW SAMPLE WELL PER MANUFACTURER RECOMMENDATIONS.
 - CONNECT NEW SANITARY SEWER LINE SIZED AS SHOWN INTO EXISTING SANITARY SEWER LINE NEARBY. FIELD VERIFY EXACT SIZE, FLOW DIRECTION, AND LOCATION OF EXISTING SANITARY SEWER LINE.
 - REFER TO FLOOR ABOVE FOR CONTINUATION.
 - CONNECT INTO EXISTING CW WITH NEW 3/4" CW LINE IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING CW LINE.
 - CONNECT INTO EXISTING HW WITH NEW 3/4" HW LINE IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING HW LINE.

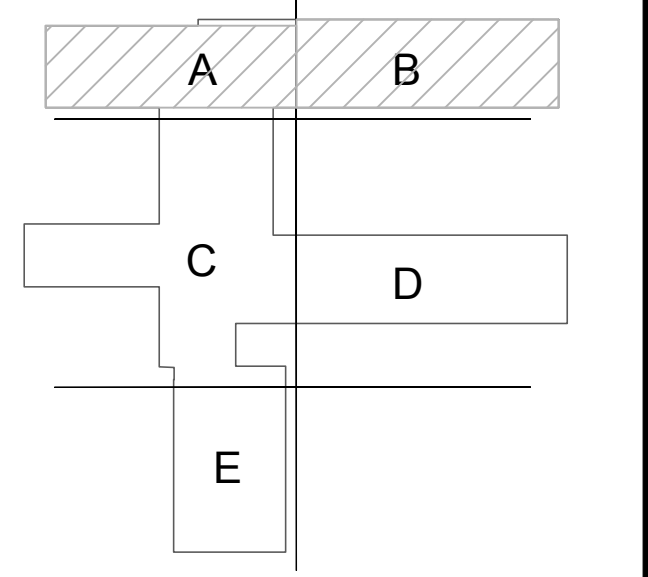


2 UNDERFLOOR PLAN - AREA 'B' - PLUMBING
 SCALE: 1/8" = 1'-0"

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KEY PLAN



JMA Project Number:

Date: 08/09/2024

Scale:

Sheet Title

UNDERFLOOR PLAN
 PLUMBING

Sheet Number

P201



ARCHITECT:



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Phone: (214) 745-7070
Web Site - www.jmajohnsonarchitect.com

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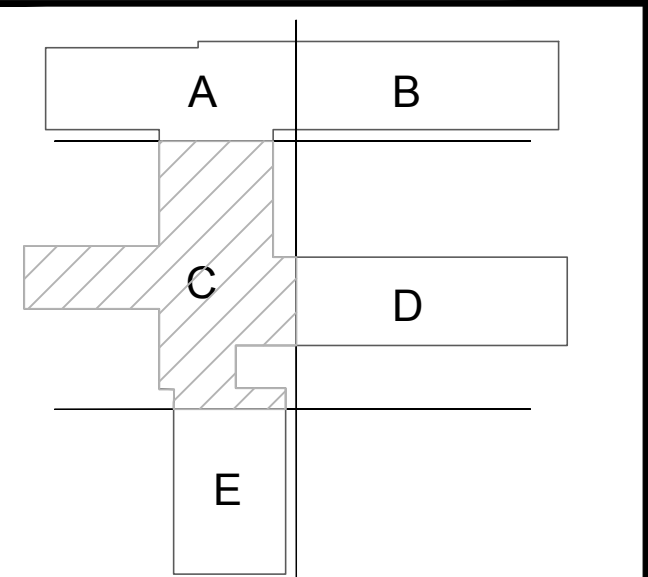
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KEY PLAN



JMA Project Number:

Date: 08/09/2024

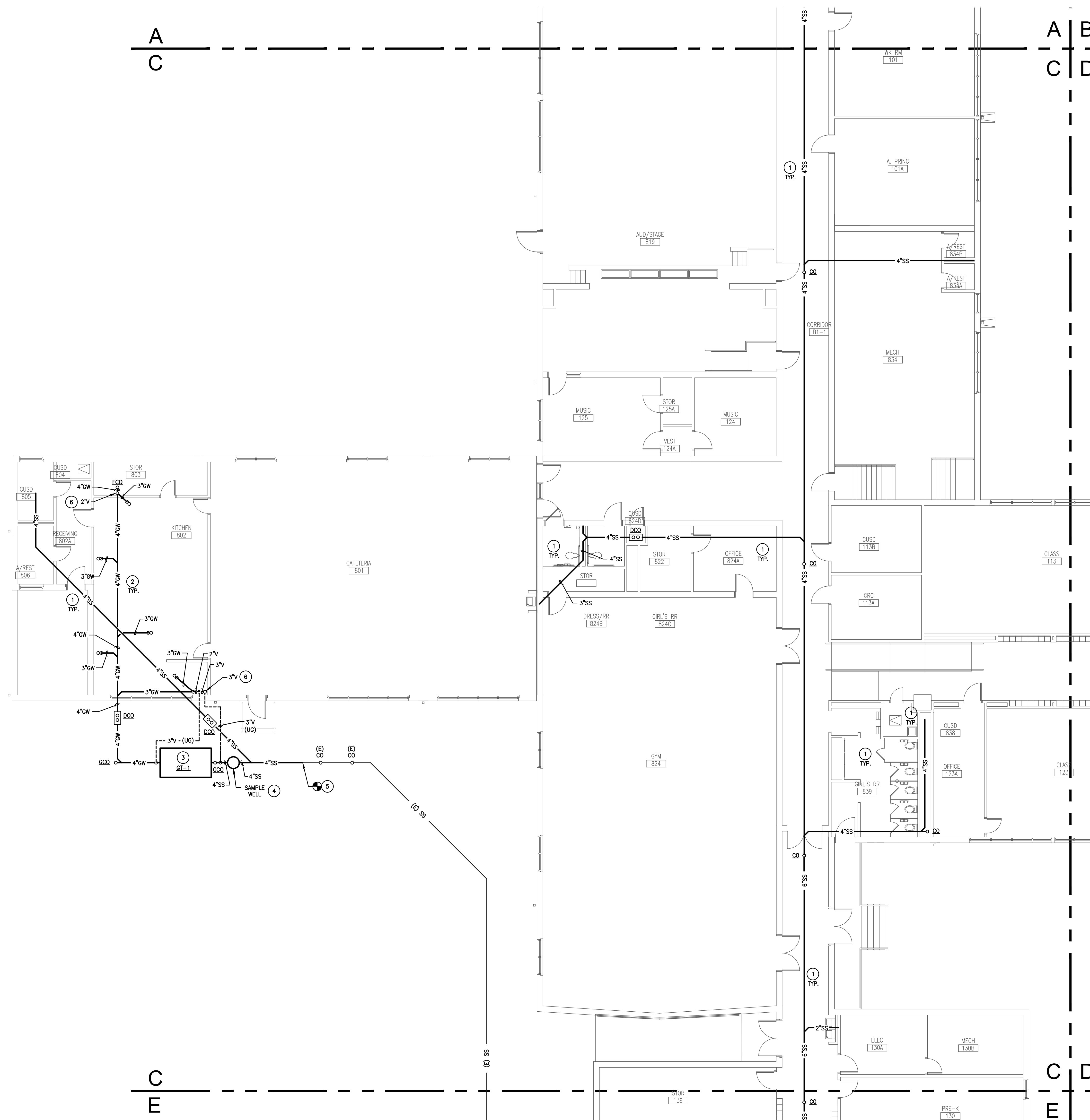
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Sheet Title

UNDERFLOOR PLAN
PLUMBING

Sheet Number

P202



- GENERAL PLUMBING NOTES:**
- EVERY KEYED NOTE IS NOT NECESSARILY USED ON THIS SHEET.
 - CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
 - ALL EXISTING PLUMBING FIXTURES REMAINING AFTER DEMO SHALL BE RECONNECTED TO DOMESTIC WATER, VENT AND SEWER AS NEEDED WHETHER OR NOT THE FIXTURE IS INDICATED ON THIS SET OF PLANS.
 - ALL GAS PIPING SHALL BE PAINTED YELLOW.
 - CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.

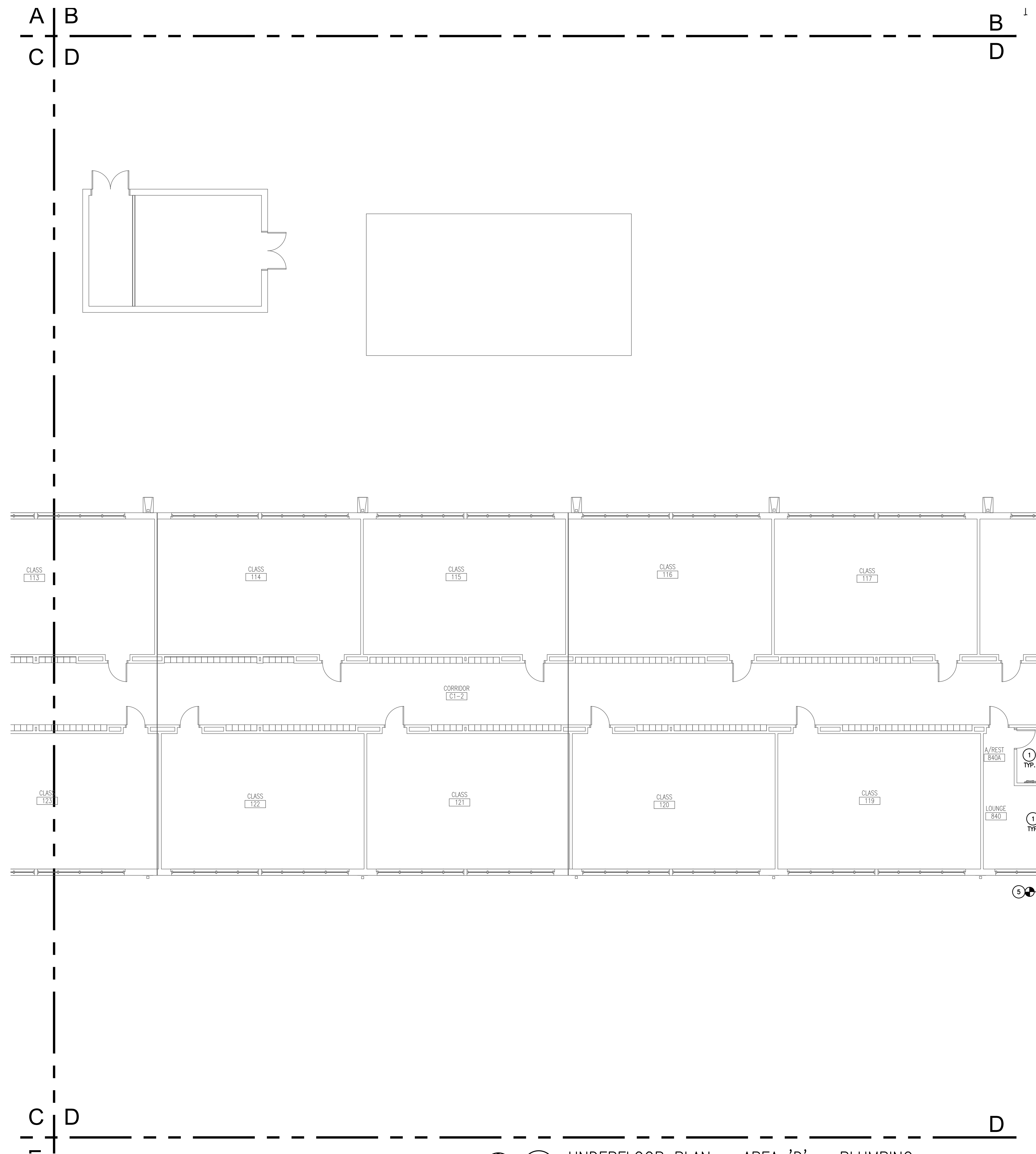
- NOTES INDICATED BY SYMBOL:**
- FURNISH AND INSTALL NEW SANITARY SEWER LINES IN THE CRAWLSPACE AS SHOWN. CONTRACTOR SHALL CONNECT ALL EXISTING PLUMBING FIXTURES TO NEW SANITARY SEWER LINES.
 - FURNISH AND INSTALL NEW GREASE WASTE LINES TO NEW GREASE INTERCEPTOR AS SHOWN.
 - 4"OW LINE OUT TO GREASE INTERCEPTOR GT-1. GREASE INTERCEPTOR SHALL BE FURNISHED AND INSTALLED AS SCHEDULED AND PER MANUFACTURER RECOMMENDATIONS.
 - FURNISH AND INSTALL NEW SAMPLE WELL PER MANUFACTURER RECOMMENDATIONS.
 - CONNECT NEW SANITARY SEWER LINE SIZED AS SHOWN INTO EXISTING SANITARY SEWER LINE NEARBY. FIELD VERIFY EXACT SIZE, FLOW DIRECTION, AND LOCATION OF EXISTING SANITARY SEWER LINE.
 - REFER TO FLOOR ABOVE FOR CONTINUATION.
 - CONNECT INTO EXISTING CW WITH NEW 3/4"OW LINE IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING CW LINE.
 - CONNECT INTO EXISTING HW WITH NEW 3/4"HW LINE IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING HW LINE.

1 UNDERFLOOR PLAN - AREA 'C' - PLUMBING
SCALE: 1/8" = 1'-0"



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1 UNDERFLOOR PLAN - AREA 'D' - PLUMBING
SCALE: 1/8" = 1'-0"

- GENERAL PLUMBING NOTES:**
1. EVERY KEYED NOTE IS NOT NECESSARILY USED ON THIS SHEET.
 2. CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
 3. ALL EXISTING PLUMBING FIXTURES REMAINING AFTER DEMO SHALL BE RECONNECTED TO DOMESTIC WATER, VENT AND SEWER AS NEEDED WHETHER OR NOT THE FIXTURE IS INDICATED ON THIS SET OF PLANS.
 4. ALL GAS PIPING SHALL BE PAINTED YELLOW.
 5. CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.

- NOTES INDICATED BY SYMBOL:**
1. FURNISH AND INSTALL NEW SANITARY SEWER LINES IN THE CRAWLSPACE AS SHOWN. CONTRACTOR SHALL CONNECT ALL EXISTING PLUMBING FIXTURES TO NEW SANITARY SEWER LINES.
 2. FURNISH AND INSTALL NEW GREASE WASTE LINES TO NEW GREASE INTERCEPTOR AS SHOWN.
 3. 4" CW LINE OUT TO GREASE INTERCEPTOR GT-1. GREASE INTERCEPTOR SHALL BE FURNISHED AND INSTALLED AS SCHEDULED AND PER MANUFACTURER RECOMMENDATIONS.
 4. FURNISH AND INSTALL NEW SAMPLE WELL PER MANUFACTURER RECOMMENDATIONS.
 5. CONNECT NEW SANITARY SEWER LINE SIZED AS SHOWN INTO EXISTING SANITARY SEWER LINE NEARBY. FIELD VERIFY EXACT SIZE, FLOW DIRECTION, AND LOCATION OF EXISTING SANITARY SEWER LINE.
 6. REFER TO FLOOR ABOVE FOR CONTINUATION.
 7. CONNECT INTO EXISTING CW WITH NEW 3/4" CW LINE IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING CW LINE.
 8. CONNECT INTO EXISTING HW WITH NEW 3/4" HW LINE IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING HW LINE.

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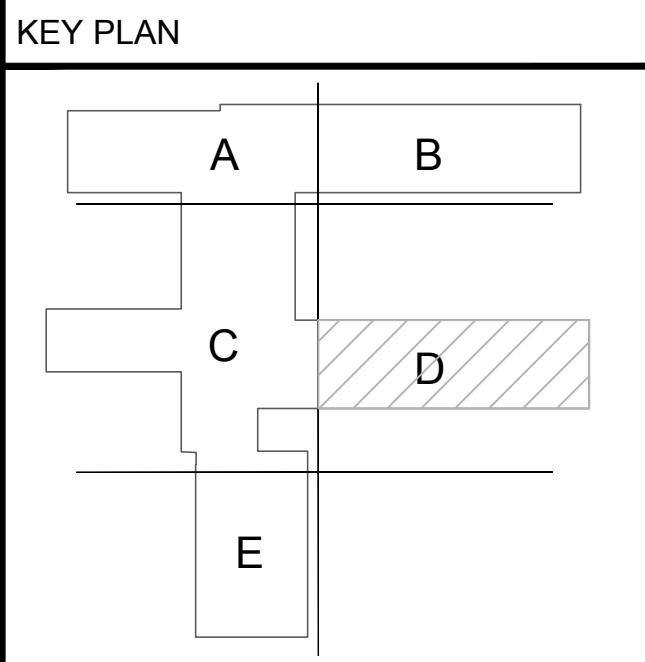
CONSULTANT:

OWNER'S REPRESENTATIVE:
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 Date: 08/09/2024
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Sheet Title
 UNDERFLOOR PLAN
 PLUMBING
 Sheet Number
 P203

ARCHITECT:



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Phone: (214) 745-7070
Web Site - www.jmajohnsonarchitect.com

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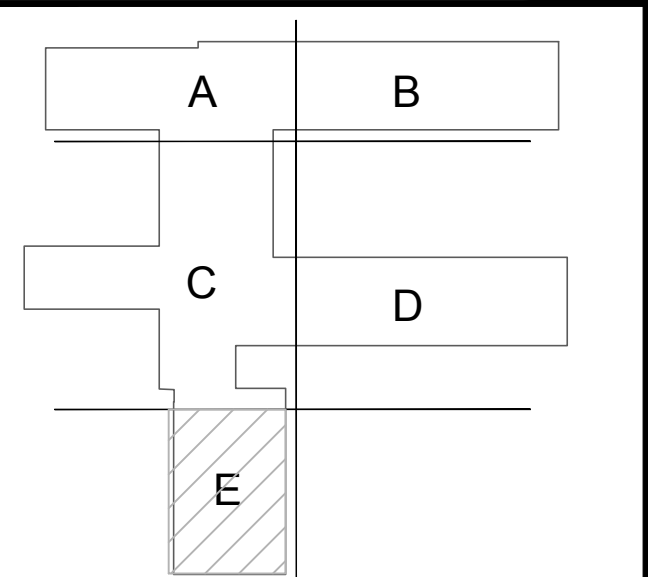
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KEY PLAN



JMA Project Number:

Date: 08/09/2024

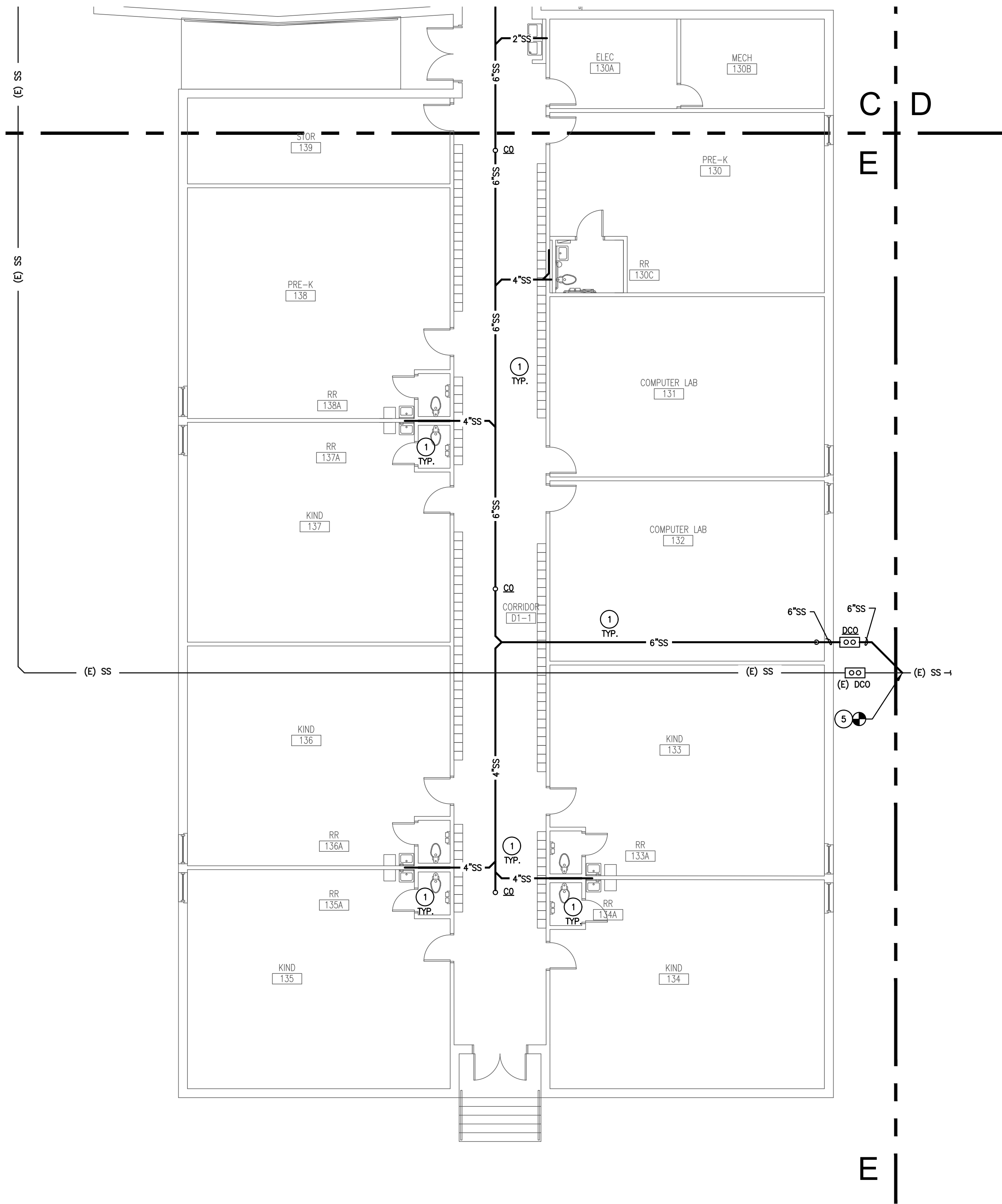
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Sheet Title

UNDERFLOOR PLAN
PLUMBING

Sheet Number

P204



GENERAL PLUMBING NOTES:

- EVERY KEYED NOTE IS NOT NECESSARILY USED ON THIS SHEET.
- CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
- ALL EXISTING PLUMBING FIXTURES REMAINING AFTER DEMO SHALL BE RECONNECTED TO DOMESTIC WATER, VENT AND SEWER AS NEEDED WHETHER OR NOT THE FIXTURE IS INDICATED ON THIS SET OF PLANS.
- ALL GAS PIPING SHALL BE PAINTED YELLOW.
- CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.

NOTES INDICATED BY SYMBOL (1):

- FURNISH AND INSTALL NEW SANITARY SEWER LINES IN THE CRAWLSPACE AS SHOWN. CONTRACTOR SHALL CONNECT ALL EXISTING PLUMBING FIXTURES TO NEW SANITARY SEWER LINES.
- FURNISH AND INSTALL NEW GREASE WASTE LINES TO NEW GREASE INTERCEPTOR AS SHOWN.
- 4" CW LINE OUT TO GREASE INTERCEPTOR GT-1. GREASE INTERCEPTOR SHALL BE FURNISHED AND INSTALLED AS SCHEDULED AND PER MANUFACTURER RECOMMENDATIONS.
- FURNISH AND INSTALL NEW SAMPLE WELL PER MANUFACTURER RECOMMENDATIONS.
- CONNECT NEW SANITARY SEWER LINE SIZED AS SHOWN INTO EXISTING SANITARY SEWER LINE NEARBY. FIELD VERIFY EXACT SIZE, FLOW DIRECTION, AND LOCATION OF EXISTING SANITARY SEWER LINE.
- REFER TO FLOOR ABOVE FOR CONTINUATION.
- CONNECT INTO EXISTING CW WITH NEW 3/4" CW LINE IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING CW LINE.
- CONNECT INTO EXISTING HW WITH NEW 3/4" HW LINE IN THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING HW LINE.

1 UNDERFLOOR PLAN - AREA 'E' - PLUMBING
SCALE: 1/8" = 1'-0"

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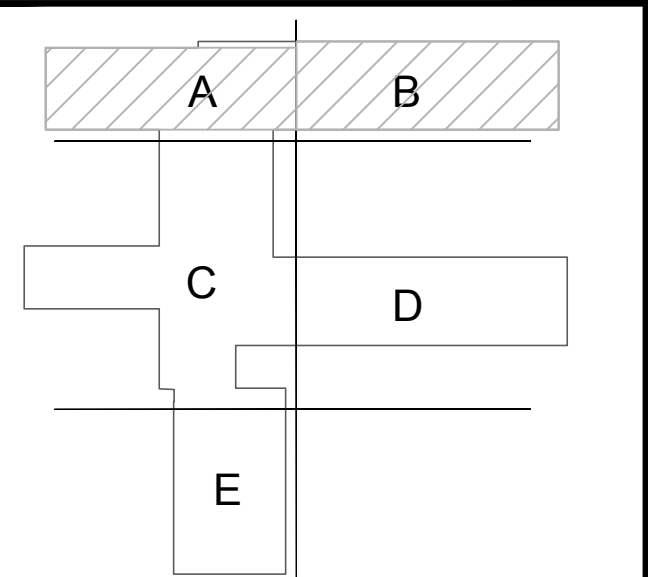
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KEY PLAN



JMA Project Number:

Date: 08/09/2024

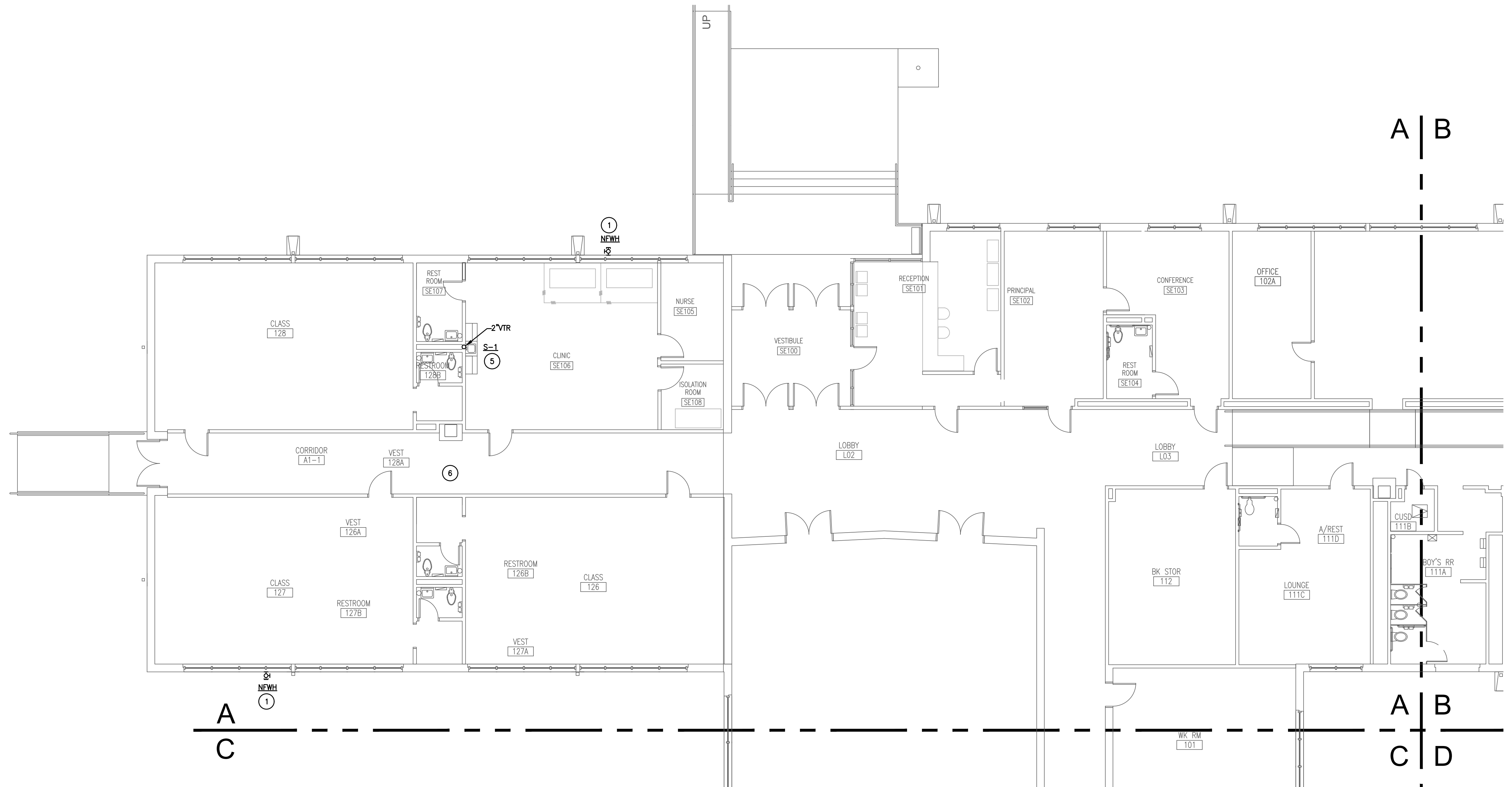
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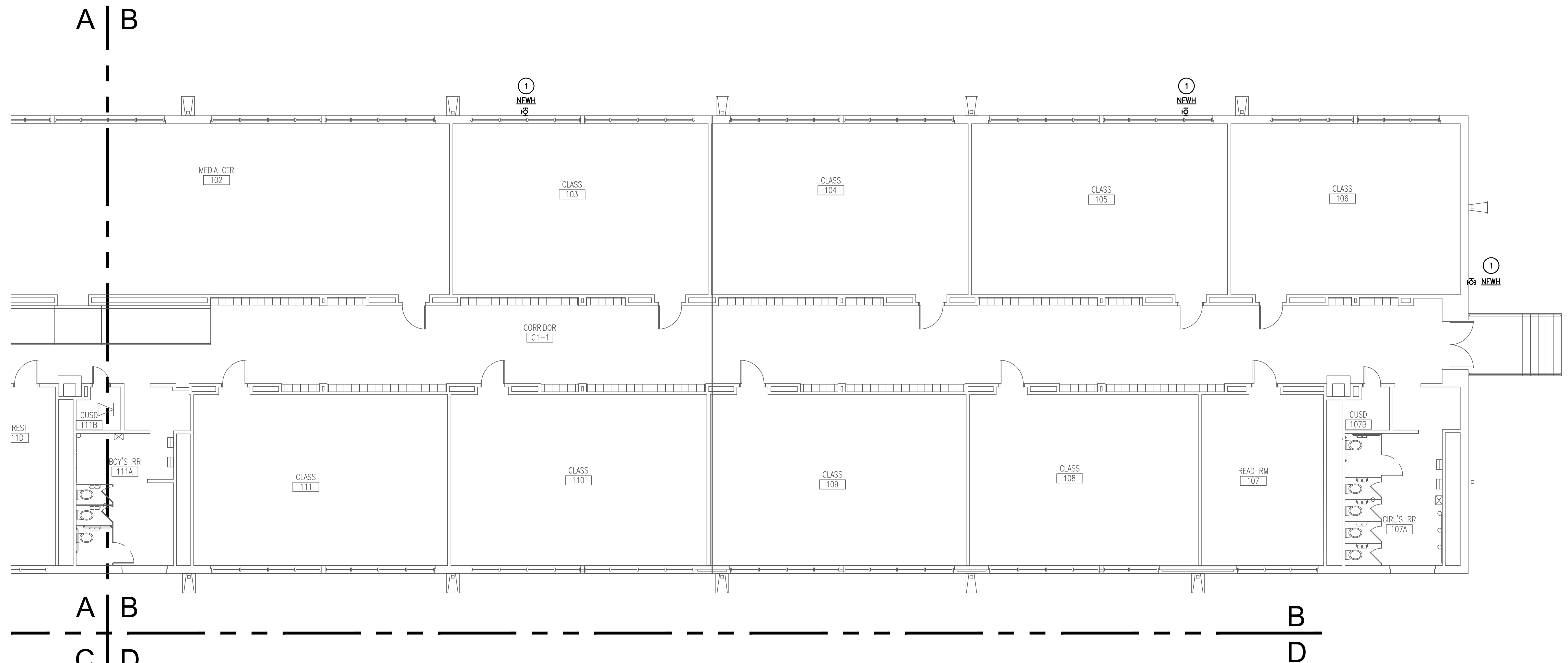
FLOOR PLAN
PLUMBING

Sheet Number

P211

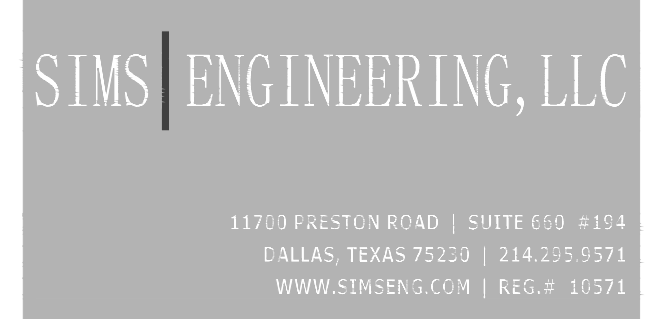


1 FLOOR PLAN - AREA 'A' - PLUMBING
SCALE: 1/8" = 1'-0"

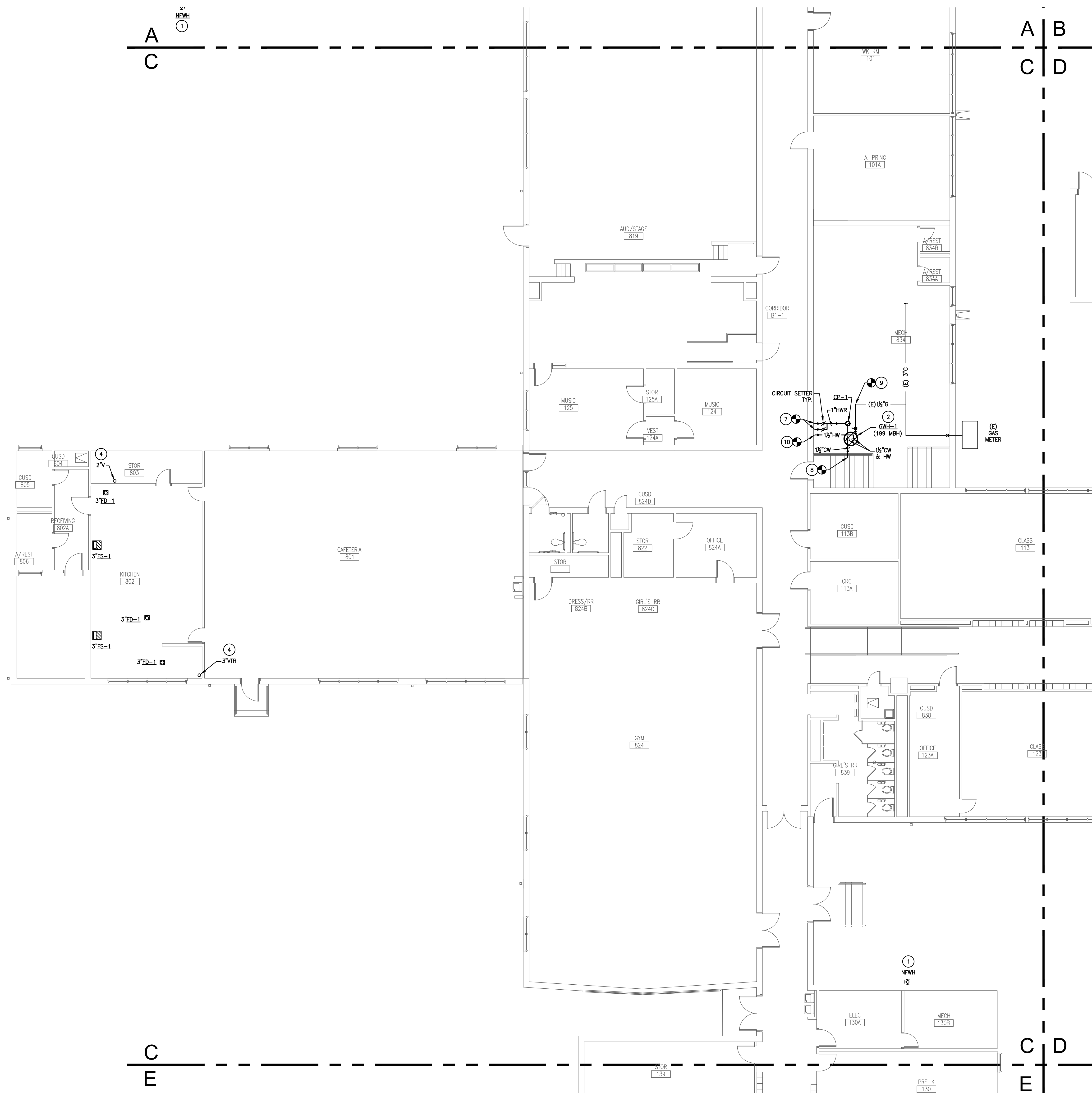


2 FLOOR PLAN - AREA 'B' - PLUMBING
SCALE: 1/8" = 1'-0"

- GENERAL PLUMBING NOTES:**
- EVERY KEYED NOTE IS NOT NECESSARILY USED ON THIS SHEET.
 - CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
 - ALL EXISTING PLUMBING FIXTURES REMAINING AFTER DEMO SHALL BE RECONNECTED TO DOMESTIC WATER, VENT AND SEWER AS NEEDED WHETHER OR NOT THE FIXTURE IS INDICATED ON THIS SET OF PLANS.
 - ALL GAS PIPING SHALL BE PAINTED YELLOW.
 - CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.
- NOTES INDICATED BY SYMBOL:**
- FURNISH AND INSTALL NEW NON-FREEZE WALL HYDRANT AS SCHEDULED IN PLACE OF EXISTING HOSE BIB AT THIS LOCATION. CONNECT EXISTING DOMESTIC COLD WATER LINE TO NEW WALL HYDRANT. FURNISH AND INSTALL A SHUT-OFF VALVE ON THE EXISTING DOMESTIC COLD WATER LINE.
 - FURNISH AND INSTALL NEW GAS WATER HEATER PER MANUFACTURER RECOMMENDATIONS AND DETAIL S/PO01. ROUTE NEW 1-1/2" HOT WATER LINES AS SHOWN TO RECONNECT TO EXISTING HOT WATER LINES. ROUTE 1" COLD WATER LINE TO CONNECT TO EXISTING COLD WATER MAIN NEARBY. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING WATER LINES.
 - CONNECT TO EXISTING WATER LINE NEARBY AND ROUTE NEW 3/4" CW LINE AS SHOWN TO NEW NON-FREEZE WALL HYDRANT. INSTALL NON-FREEZE WALL HYDRANT PER MANUFACTURER RECOMMENDATIONS. FURNISH AND INSTALL A SHUT-OFF VALVE ON THE DOMESTIC COLD WATER LINE.
 - REFER TO FLOOR BELOW FOR CONTINUATION.
 - FURNISH AND INSTALL NEW SINK AS SCHEDULED. CONNECT TO EXISTING COLD AND HOT WATER LINES AND VENT LINE SERVING RESTROOM NEARBY. REFER TO FLOOR BELOW.
 - EXISTING FIRE SPRINKLER SYSTEM IN THIS CORRIDOR IS CURRENTLY EXPOSED. A NEW SUSPENDED CEILING WILL BE ADDED TO THIS CORRIDOR. THE CONTRACTOR SHALL MODIFY THE EXISTING FIRE SPRINKLER SYSTEM TO EXTEND SPRINKLER PIPING AS NEEDED TO BE FULLY RECESSED WITHIN THE NEW CEILING WITH THE APPROPRIATE COVERAGE.
 - CONTRACTOR SHALL ROUTE (2) NEW 1" HOT WATER RETURN LINES AS SHOWN FROM NEW WATER HEATER TO CONNECT TO EXISTING HOT WATER RETURN LINES RUNNING INTO THE CRAWLSPACE.
 - CONTRACTOR SHALL ROUTE NEW 1-1/2" DOMESTIC COLD WATER LINE FROM THE MAIN NEAR THIS LOCATION TO CONNECT TO THE NEW GAS WATER HEATER.
 - CONTRACTOR SHALL CONNECT TO EXISTING GAS LINE ABANDONED BY THE REMOVED BOILER IN THIS APPROXIMATE LOCATION AND ROUTE A NEW 1-1/2" GAS LINE TO NEW WATER HEATER AS SHOWN.
 - CONTRACTOR SHALL ROUTE NEW 1-1/2" DOMESTIC HOT WATER LINE AS SHOWN FROM NEW WATER HEATER TO CONNECT TO THE EXISTING HOT WATER LINE RUNNING INTO CRAWLSPACE.



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1 FLOOR PLAN -- AREA 'C' -- PLUMBING
SCALE: 1/8" = 1'-0"

GENERAL PLUMBING NOTES:

1. EVERY KEYED NOTE IS NOT NECESSARILY USED ON THIS SHEET.
2. CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
3. ALL EXISTING PLUMBING FIXTURES REMAINING AFTER DEMO SHALL BE RECONNECTED TO DOMESTIC WATER, VENT AND SEWER AS NEEDED WHETHER OR NOT THE FIXTURE IS INDICATED ON THIS SET OF PLANS.
4. ALL GAS PIPING SHALL BE PAINTED YELLOW.
5. CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.

NOTES INDICATED BY SYMBOL:

1. FURNISH AND INSTALL NEW NON-FREEZE WALL HYDRANT AS SCHEDULED IN PLACE OF EXISTING HOSE BIB AT THIS LOCATION. CONNECT EXISTING DOMESTIC COLD WATER LINE TO NEW WALL HYDRANT. FURNISH AND INSTALL A SHUT-OFF VALVE ON THE EXISTING DOMESTIC COLD WATER LINE.
2. FURNISH AND INSTALL NEW GAS WATER HEATER PER MANUFACTURER RECOMMENDATIONS AND DETAIL S/PO01. ROUTE NEW 1-1/2" HOT WATER LINES AS SHOWN TO RECONNECT TO EXISTING HOT WATER LINES. ROUTE 1" COLD WATER LINE TO CONNECT TO EXISTING COLD WATER MAIN NEARBY. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING WATER LINES.
3. CONNECT TO EXISTING WATER LINE NEARBY AND ROUTE NEW 3/4" CW LINE AS SHOWN TO NEW NON-FREEZE WALL HYDRANT. INSTALL NON-FREEZE WALL HYDRANT PER MANUFACTURER RECOMMENDATIONS. FURNISH AND INSTALL A SHUT-OFF VALVE ON THE DOMESTIC COLD WATER LINE.
4. REFER TO FLOOR BELOW FOR CONTINUATION.
5. FURNISH AND INSTALL NEW SINK AS SCHEDULED. CONNECT TO EXISTING COLD AND HOT WATER LINES AND VENT LINE SERVING RESTROOM NEARBY. REFER TO FLOOR BELOW.
6. EXISTING FIRE SPRINKLER SYSTEM IN THIS CORRIDOR IS CURRENTLY EXPOSED. A NEW SUSPENDED CEILING WILL BE ADDED TO THIS CORRIDOR. THE CONTRACTOR SHALL MODIFY THE EXISTING FIRE SPRINKLER SYSTEM TO EXTEND SPRINKLER PIPING AS NEEDED TO BE FULLY RECESSED WITHIN THE NEW CEILING WITH THE APPROPRIATE COVERAGE.
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10. CONTRACTOR SHALL ROUTE NEW 1-1/2" DOMESTIC HOT WATER LINE AS SHOWN FROM NEW WATER HEATER TO CONNECT TO THE EXISTING HOT WATER LINE RUNNING INTO CRAWLSPACE.

ARCHITECT:



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Web Site - www.jmajohnsonarchitect.com

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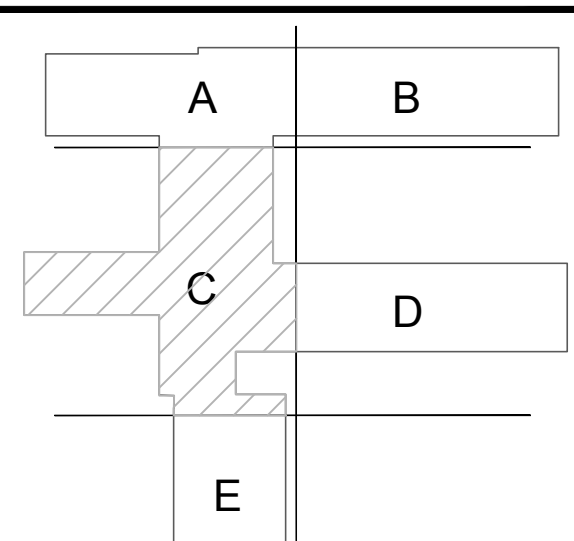
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KEY PLAN



JMA Project Number:

Date: 08/09/2024

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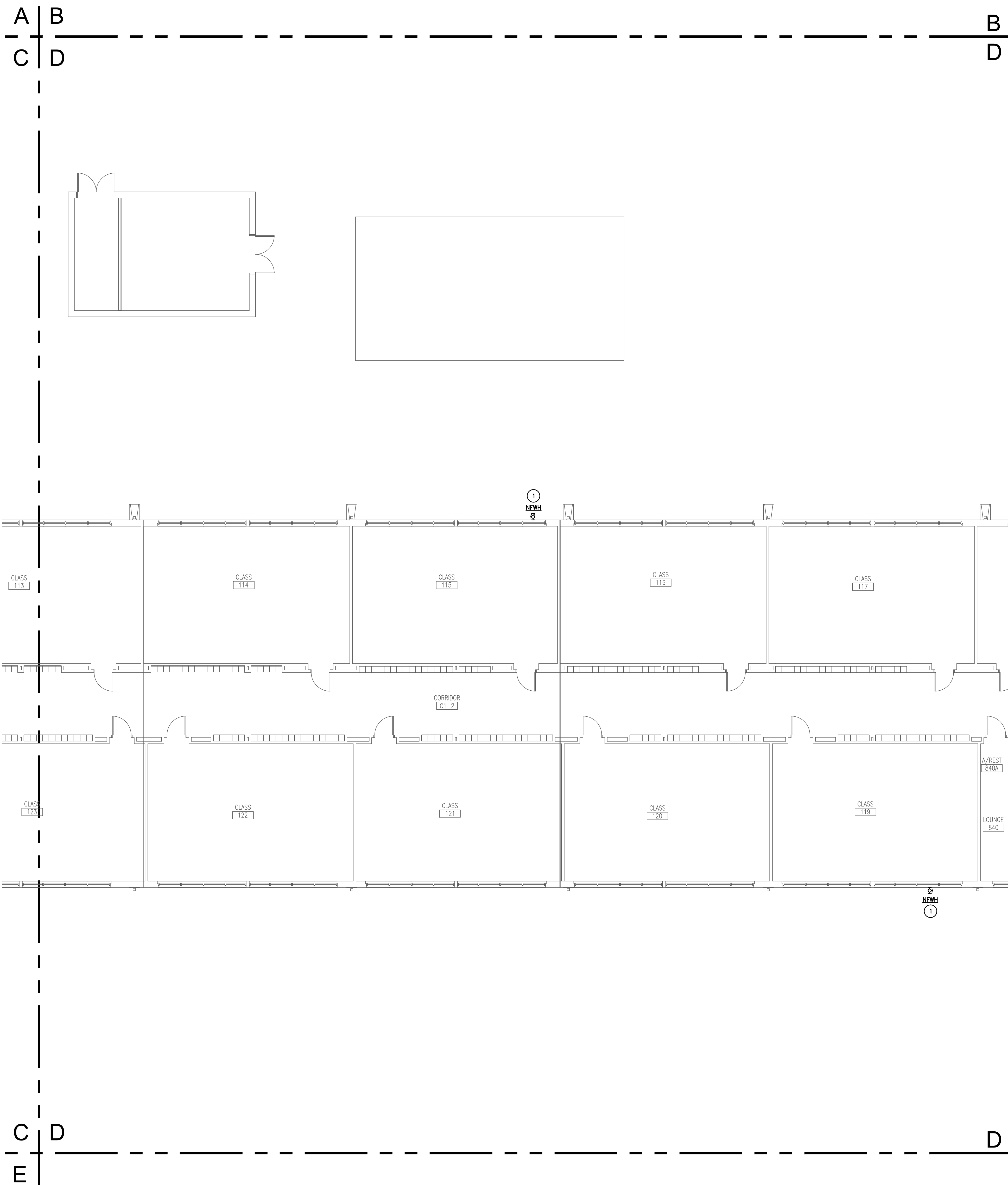
FLOOR PLAN
PLUMBING

Sheet Number

P212

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11700 PRESTON ROAD | SUITE 400 - 2114
DALLAS, TEXAS 75220 | 214.205.9371
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GENERAL PLUMBING NOTES:

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1 FLOOR PLAN - AREA 'D' - PLUMBING
 SCALE: 1/8" = 1'-0"

ARCHITECT:



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 Phone: (214) 745-7070
 Web Site - www.jmajohnsonarchitect.com

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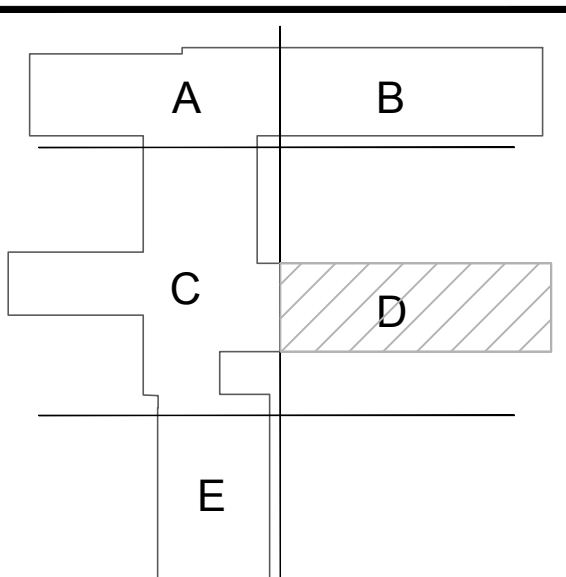
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KEY PLAN



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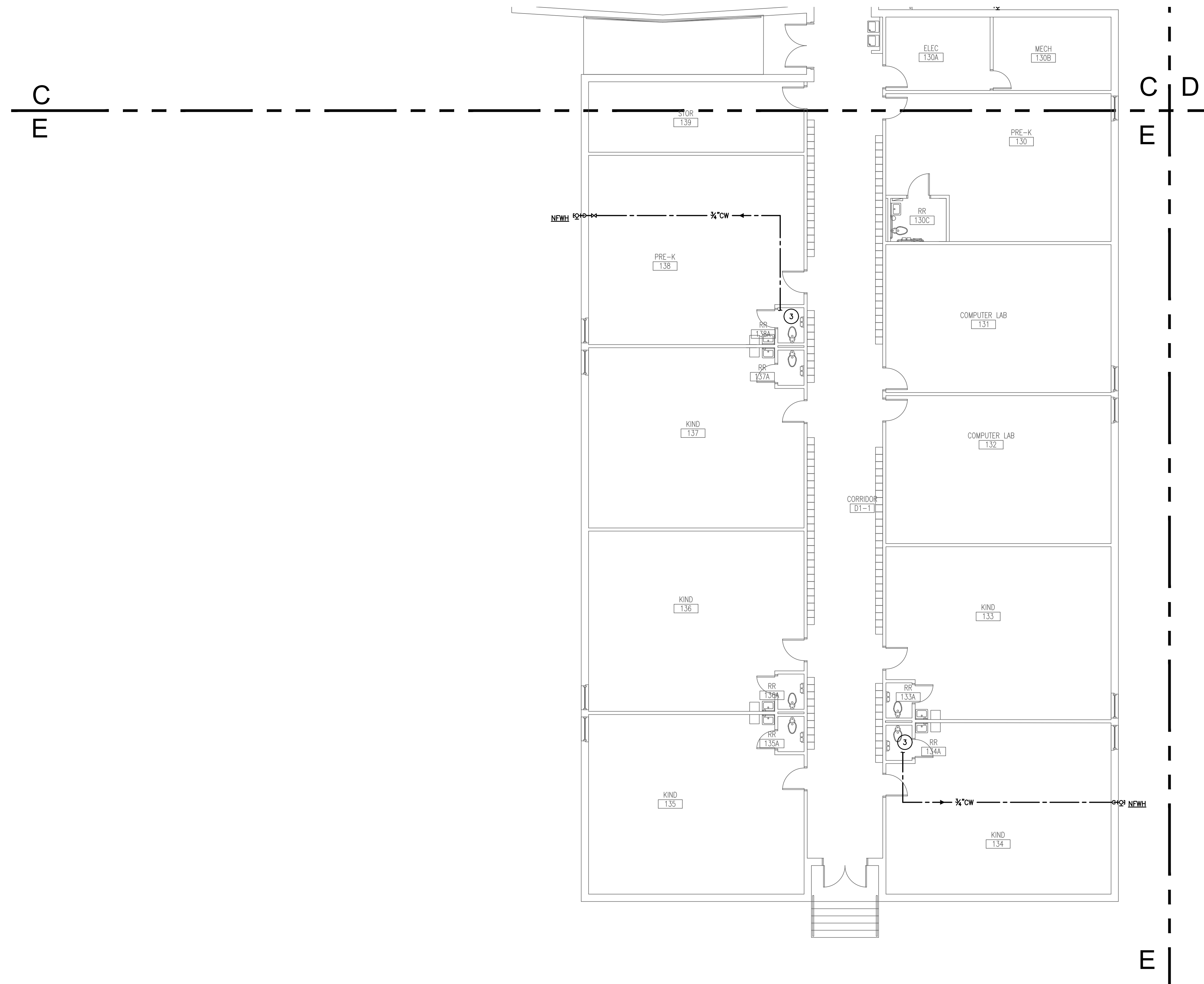
FLOOR PLAN
 PLUMBING

Sheet Number

P213

SIMS ENGINEERING, LLC

11700 PRESTON ROAD | SUITE 600 #114
 DALLAS, TEXAS 75220 | 214.205.9571
 WWW.SIMSENG.COM | REG.# 10591



- GENERAL PLUMBING NOTES:**
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1 FLOOR PLAN - AREA 'E' - PLUMBING
 SCALE: 1/8" = 1'-0"

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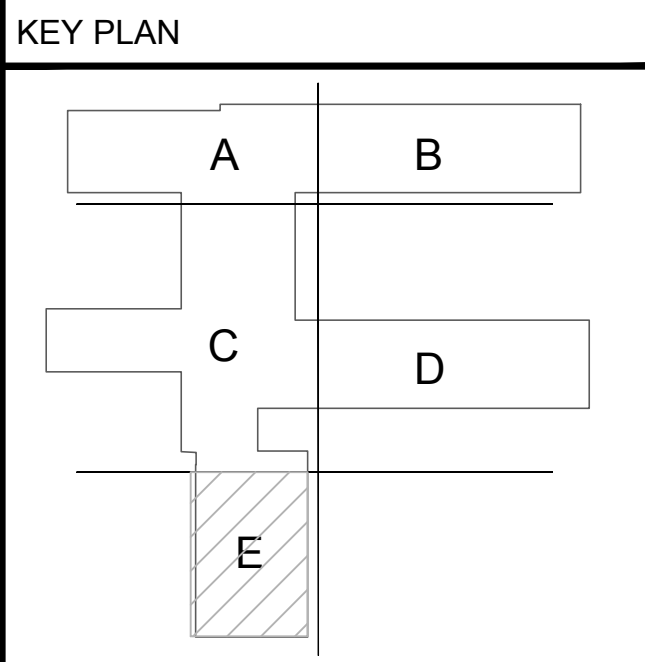
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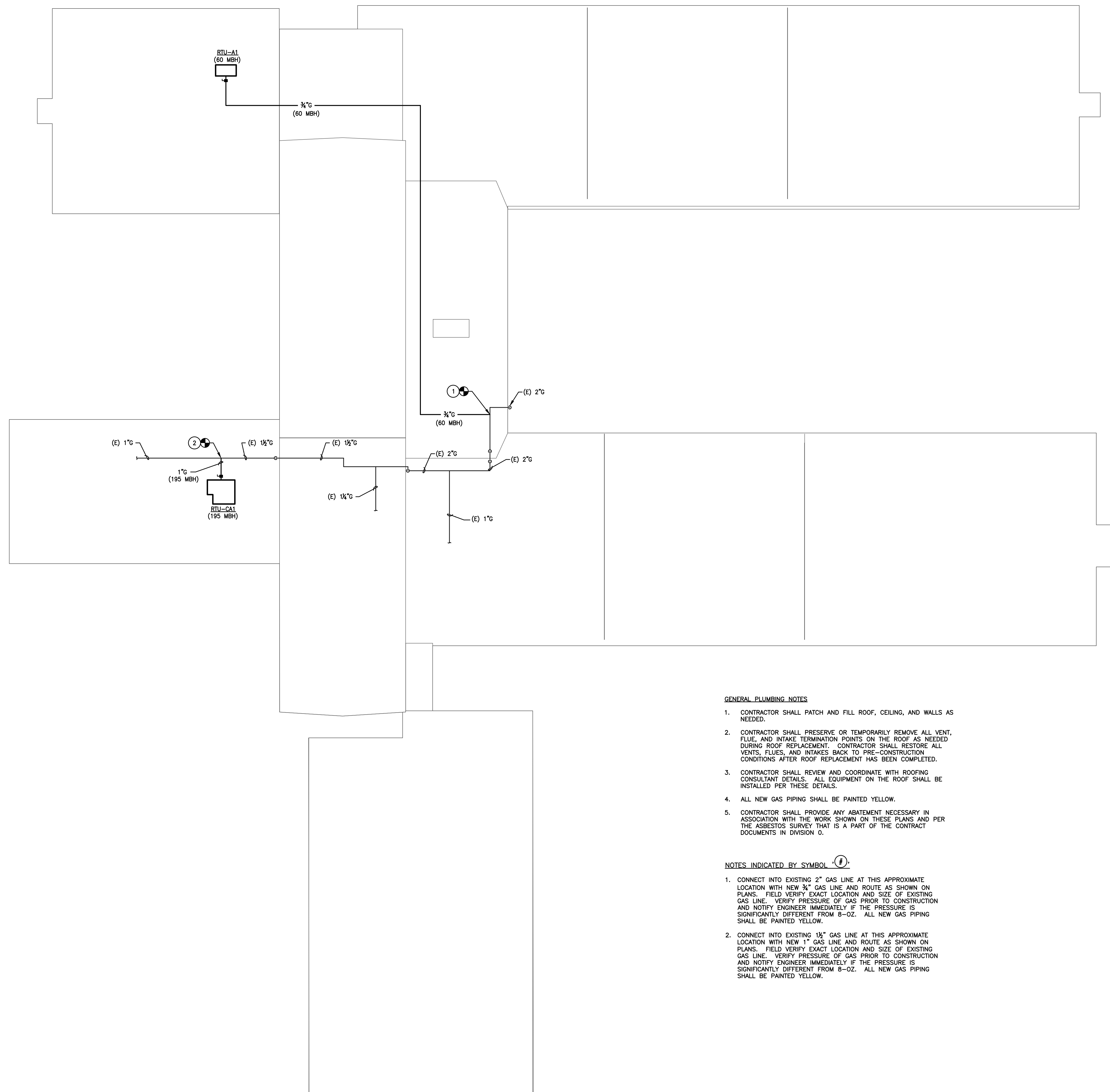
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Sheet Title

FLOOR PLAN
 PLUMBING

Sheet Number

P214



GENERAL PLUMBING NOTES

- CONTRACTOR SHALL PATCH AND FILL ROOF, CEILING, AND WALLS AS NEEDED.
- CONTRACTOR SHALL PRESERVE OR TEMPORARILY REMOVE ALL VENT, FLUE, AND INTAKE TERMINATION POINTS ON THE ROOF AS NEEDED. DURING ROOF REPLACEMENT, CONTRACTOR SHALL RESTORE ALL VENTS, FLUES, AND INTAKES BACK TO PRE-CONSTRUCTION CONDITIONS AFTER ROOF REPLACEMENT HAS BEEN COMPLETED.
- CONTRACTOR SHALL REVIEW AND COORDINATE WITH ROOFING CONSULTANT DETAILS. ALL EQUIPMENT ON THE ROOF SHALL BE INSTALLED PER THESE DETAILS.
- ALL NEW GAS PIPING SHALL BE PAINTED YELLOW.
- CONTRACTOR SHALL PROVIDE ANY ABATEMENT NECESSARY IN ASSOCIATION WITH THE WORK SHOWN ON THESE PLANS AND PER THE ASBESTOS SURVEY THAT IS A PART OF THE CONTRACT DOCUMENTS IN DIVISION 0.

NOTES INDICATED BY SYMBOL (E)

- CONNECT INTO EXISTING 2" GAS LINE AT THIS APPROXIMATE LOCATION WITH NEW 3/4" GAS LINE AND ROUTE AS SHOWN ON PLANS. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING GAS LINE. VERIFY PRESSURE OF GAS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IMMEDIATELY IF THE PRESSURE IS SIGNIFICANTLY DIFFERENT FROM 8-OZ. ALL NEW GAS PIPING SHALL BE PAINTED YELLOW.
- CONNECT INTO EXISTING 1 1/2" GAS LINE AT THIS APPROXIMATE LOCATION WITH NEW 1" GAS LINE AND ROUTE AS SHOWN ON PLANS. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING GAS LINE. VERIFY PRESSURE OF GAS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IMMEDIATELY IF THE PRESSURE IS SIGNIFICANTLY DIFFERENT FROM 8-OZ. ALL NEW GAS PIPING SHALL BE PAINTED YELLOW.

1 ROOF PLAN — PLUMBING
SCALE: 1/16" = 1'-0"

ARCHITECT:



13355 Noel Rd., Suite 1100, Dallas, Texas 75240
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Web Site - www.jmajohnsonarchitect.com

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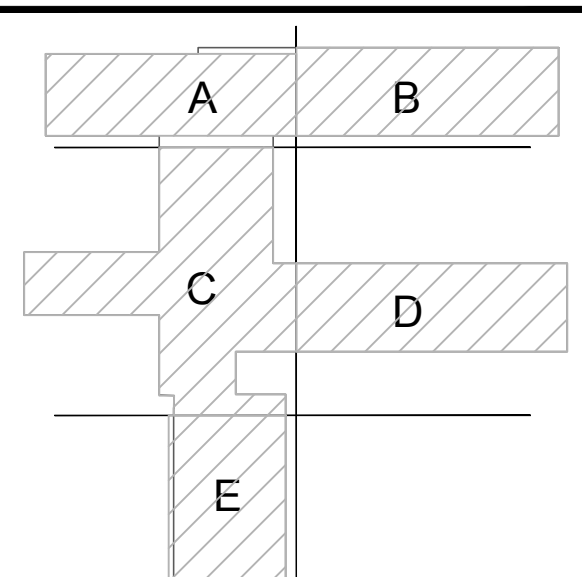
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KEY PLAN



JMA Project Number:

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ROOF PLAN
PLUMBING

Sheet Number

P215

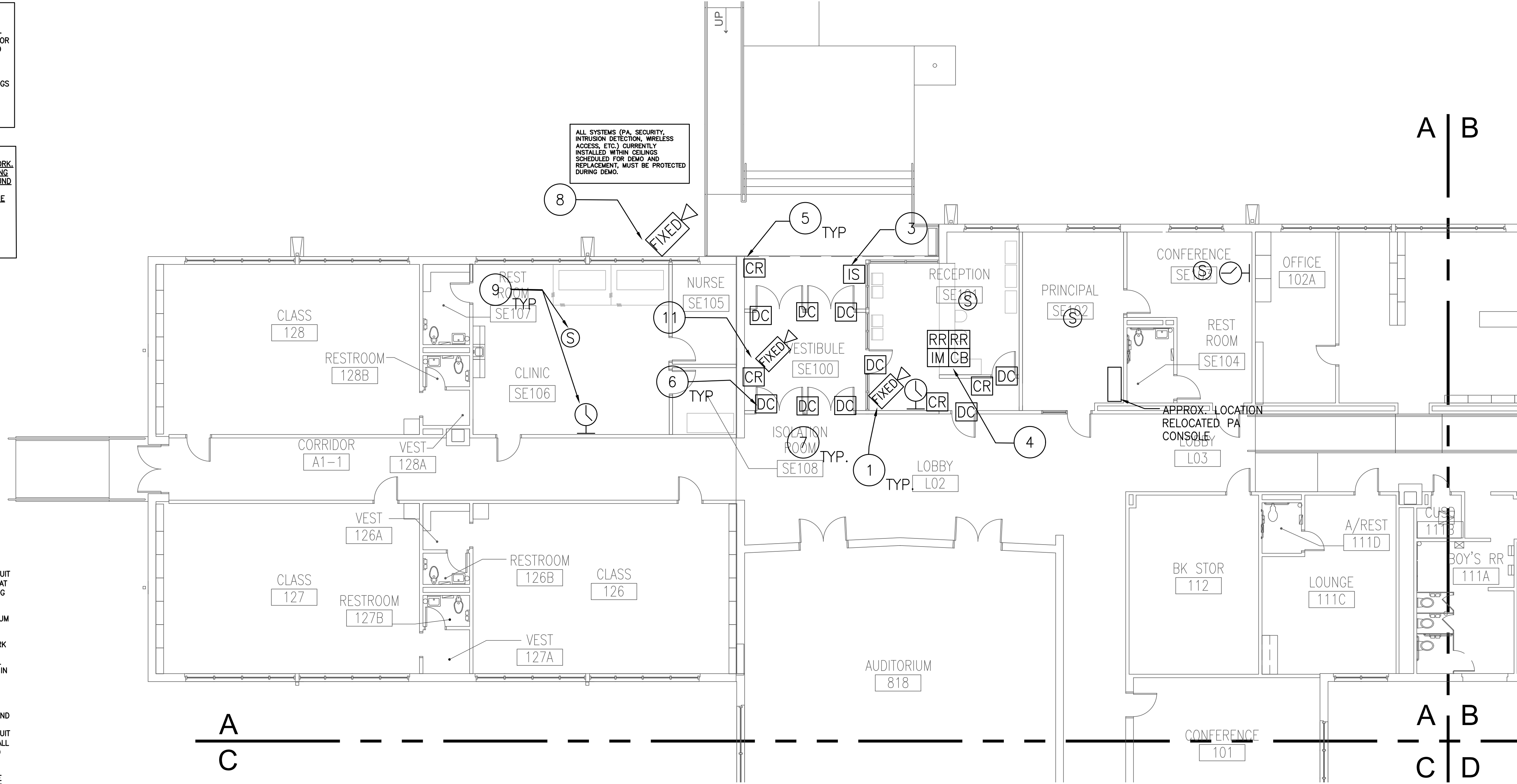
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FOR ALL TECHNOLOGY DEVICES, CONTRACTOR SHALL PROVIDE INFRASTRUCTURE (CONDUIT, BACK BOX, CABLE TRAY, ETC.). CONTRACTOR SHALL STUB 1" E.C. W/PULLSTRING ABOVE ACCESSIBLE CEILING SPACE FOR ALL DEVICES. PROVIDE CONDUIT BUSHINGS TO AVOID CABLE CHAFING. PROVIDE LARGER CONDUIT SIZES WHERE SPECIFICALLY NOTED ON DRAWINGS AND DETAILS. ALL PATHWAYS SHALL BE RUN TO ABOVE CEILING. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS DETAILING SPECIFIC INFRASTRUCTURE COMPONENTS AND ROUTING FOR DISD REVIEW. SHOP DRAWINGS SHALL BE COORDINATED WITH CABLING, SECURITY, ACCESS CONTROL, AND PA CONTRACTORS.

CONTRACTOR MUST TEST PA, FA, IT, SECURITY AND OTHER RELEVANT SYSTEMS PRIOR TO ANY DEMO WORK. IF ANY OF THE SAID SYSTEM IS NOT WORKING, BRING IT TO THE ATTENTION OF THE PA. ANY SYSTEM FOUND TO NOT BE WORKING AFTER COMMENCEMENT OF CONSTRUCTION WILL BE REPAIRED WITH NEW AT THE CONTRACTOR'S EXPENSE. SECURITY AND FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING CONSTRUCTION. CONTRACTOR MUST PROTECT AND RESTORE ALL SYSTEMS AFFECTED BY DEMO OF CEILING. COORDINATE WITH DISD FOR REMOVAL AND REINSTALLATION OF ALL AFFECTED SYSTEMS.

ALL SYSTEMS (PA, SECURITY, INTERCOM DETECTOR, WIRELESS ACCESS, ETC.) CURRENTLY INSTALLED WITHIN CEILING(S) SCHEDULED FOR DEMO AND REPLACEMENT, MUST BE PROTECTED DURING DEMO.

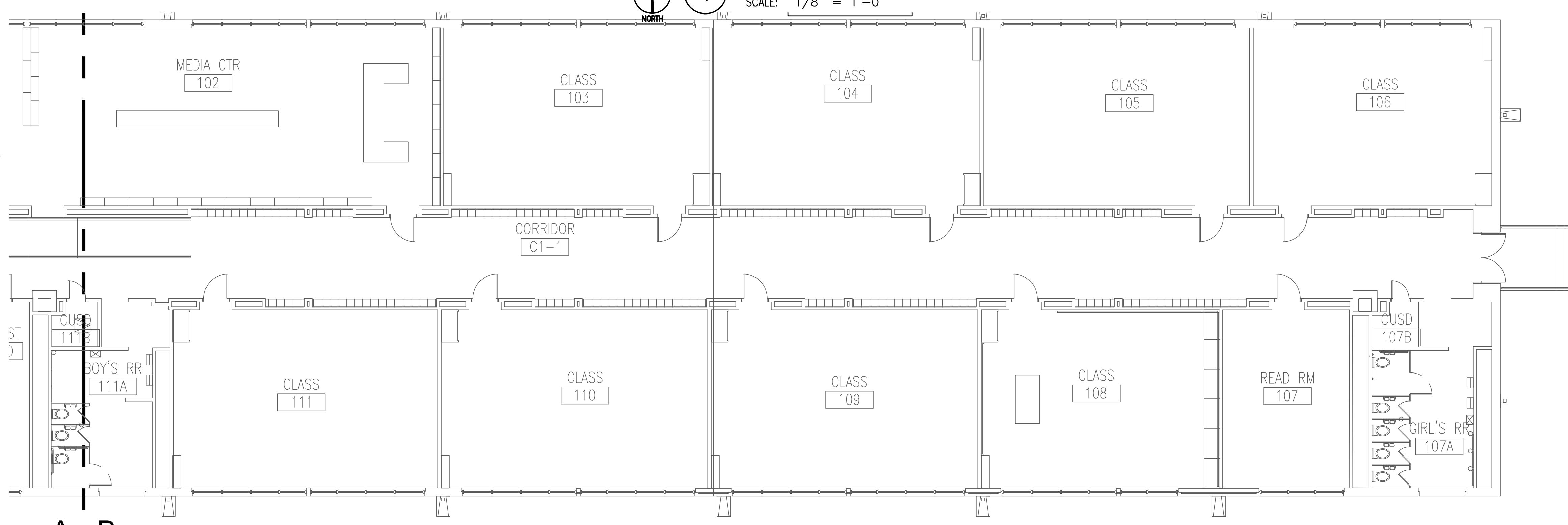


- GENERAL SECURITY NOTES:
(APPLIES TO ALL SHEETS)
- THE CONTRACTOR SHALL DESIGN AND INSTALL THE BACKBOXES, CONDUIT PATHWAYS, AND SUPPORT INFRASTRUCTURE FOR THE ACCESS CONTROL AND VIDEO SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES AND MANUFACTURER RECOMMENDATIONS AND AS OUTLINED BY THE PLANS AND SPECIFICATIONS. ALL EQUIPMENT FOR THESE SYSTEMS SHALL BE PROVIDED AND INSTALLED BY DISD.
 - ALL COMPONENTS OF EACH SYSTEM SHALL BE OF A LISTED AND APPROVED TYPE.
 - CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS.
 - CONTRACTOR SHALL BE RESPONSIBLE DURING INSTALLATION AND TESTING FOR ANY DAMAGE CAUSED BY THE CONTRACTOR'S WORK.
 - SEE SPECIFICATIONS FOR COMPLETE SYSTEM REQUIREMENTS.
 - DISD BOARD OF TRUSTEES APPROVED ELECTRONIC SAFETY AND SECURITY VENDOR SHALL DESIGN, PROVIDE, AND INSTALL ACCESS CONTROLS AND VIDEO SURVEILLANCE EQUIPMENT UNDER THE GENERAL CONTRACTOR. ALL OTHER VENDORS MUST BE APPROVED BY THE DALLAS ISD POLICE DEPARTMENT. APPROXIMATE LOCATION AND QUANTITY OF SECURITY CAMERAS ARE INDICATED. VERIFY EXACT NUMBER AND LOCATION WITH VENDOR PRIOR TO INSTALLATION.
 - WIRING FOR ALL SECURITY CAMERAS AND ACCESS CONTROL MUST HOME RUN BACK TO THE SECURITY PANEL FOR THE FACILITY OR TO THE EXPANSION MODULE FOR THAT AREA. COORDINATE EXPANSION MODULE LOCATION AND REQUIREMENTS WITH SECURITY VENDOR. CONDUIT PATHWAYS SHALL BE PROVIDED BY THIS CONTRACTOR, ALL CABLING WILL BE PROVIDED BY DISD SECURITY VENDOR.
 - CONTRACTOR MUST CONDUCT SUBMITTAL, COORDINATION AND PREINSTALLATION MEETINGS WITH DISD IT-INFRASTRUCTURE, IT CLIENT SUPPORT SERVICES, IT-CSS AND POLICE EM PRIOR TO ANY DEMOLITION WORK (MOTION DETECTION, SECURITY AND ACCESS CONTROL, ETC.) CONTRACTOR MUST COORDINATE WITH DISD FOR THE REMOVAL OF ALL DEVICES AND CABLING. SECURITY SYSTEMS ARE EXISTING TO BE REINSTALLED WITH ANY ADDITIONAL DEVICES AS NOTED HEREIN.
 - REFERENCE T2.01 FOR SYMBOLS LEGEND.
 - ALL NEW SECURITY SCOPE AND COMPONENTS MUST BE COMPATIBLE WITH THE EXISTING SECURITY SYSTEM AND SECURITY SYSTEM MUST FOLLOW TDG APPROVED MANUFACTURERS AND DEVICES/SENSORS. CONTRACTOR MUST PROVIDE INSTALLATION OF DISD AES RADIO AS PART OF SECURITY SCOPE.
 - SPEED CAMERAS TO REMAIN. CONTRACTOR SHALL COORDINATE WITH DISD FOR REMOVAL, STORAGE, PROTECTION AND REINSTALLATION OF ALL COMPONENTS WITHIN NEW CEILING.
 - IN AREAS WHERE SYSTEM COMPONENTS ARE REPLACED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, PATCH, AND PAINT ALL CEILING SURFACES TO "LIKE NEW" CONDITION.
 - DEVICE LOCATIONS ARE INDICATED FOR REFERENCE ONLY. ACTUAL LOCATION SHALL BE DETERMINED IN FIELD.

TECHNOLOGY NOTES INDICATED BY SYMBOL (F)

- CONTRACTOR SHALL PROVIDE BACKBOXES AND 1" CONDUIT PATHWAYS W/PULLWIRE TO ABOVE ACCESSIBLE CEILING AT ALL SECURITY CAMERA LOCATIONS. DEVICES AND CABLING WILL BE PROVIDED BY DISD IT DEPARTMENT.
- ALL NEW SECURITY & FIRE ALARM DEVICES IN GYMNASIUM SHALL BE PROVIDED WITH A WIRE GUARD.
- CONTRACTOR SHALL FURNISH AND INSTALL AXIS NETWORK VIDEO DOOR STATION AND GAV320 VIDEO IP PHONE AT ENTRY DOOR AS INDICATED. ALL SECURITY DEVICES WILL BE PROVIDED AND INSTALLED BY CONTRACTOR. LOCATE IN COMPLIANCE WITH ADA/AS. THIS CONTRACTOR SHALL PROVIDE BACKBOX AND 1" CONDUIT PATHWAY W/PULLWIRE TO ABOVE ACCESSIBLE CEILING.
- SECURE ENTRY VESTIBULE REMOTE RELEASE BUTTONS AND INTERCOM MASTER LOCATED UNDER RECEPTION DESK. CONTRACTOR SHALL PROVIDE BACKBOXES AND 1" CONDUIT PATHWAY W/PULLWIRE TO ABOVE ACCESSIBLE CEILING. ALL DEVICES, EQUIPMENT, AND CABLING SHALL BE PROVIDED AND INSTALLED BY DISD.
- PROVIDE INFRASTRUCTURE FOR CARD READER INTERFACE AT DESIGNATED ENTRANCES AND SECURED AREAS INSIDE THE FACILITY (MDF, IDF, AND ELECTRICAL ROOMS). REVIEW LOCATIONS WITH IT-CSS AND POLICE-EM TO CONFIRM NUMBER AND LOCATION PRIOR TO INSTALLATION. THIS CONTRACTOR SHALL PROVIDE BACKBOXES AND CONDUIT PATHWAY W/PULLWIRE TO 1" ABOVE ACCESSIBLE CEILING.
- DOOR CONTACTS ARE PROVIDED INTEGRAL TO SECURITY DOORS. CONTRACTOR SHALL PROVIDE CONDUIT PATHWAY FROM DOOR SECURITY DEVICES TO INTERIOR RELEASE MECHANISM. ALL DEVICES AND CABLING WILL BE PROVIDED BY DISD IT DEPARTMENT.
- TECHNOLOGY AND FIRE ALARM DEVICE LOCATIONS ARE INDICATED FOR REFERENCE ONLY. ACTUAL LOCATION SHALL BE DETERMINED IN FIELD. TYPICAL FOR ALL.
- EXISTING TO REMAIN CAMERA.
- PROVIDE NEW DIGITAL CLOCKS AND PA SYSTEM SPEAKERS AS REQUIRED FOR NEW ADMIN AREA LAYOUT AND TIE INTO EXISTING SYSTEM. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR SHALL REMOVE EXISTING CLOCKS, PATCH AND REPAIR EXISTING SURFACE AS REQUIRED.
- EXISTING PA SYSTEM COMPONENTS, MAIN CONTROLLER AND SYSTEM MICROPHONE ALL EXISTING TO REMAIN. CONTRACTOR SHALL NOT HANDLE SYSTEM COMPONENTS. COORDINATE ALL WORK WITH DISD IT DEPARTMENT PRIOR TO COMMENCING WORK. PROVIDE ADDITIONAL DEVICES; DEMO OF EXISTING DEVICES AS REQUIRED FOR NEW ADMIN AREA LAYOUT AND TIE ANY NEW OR RELOCATED DEVICES INTO EXISTING SYSTEM. PA SYSTEM SPEAKER LOCATIONS ARE INDICATED FOR REFERENCE ONLY. CONTRACTOR SHALL PROVIDE DETAILED MANUFACTURER'S SHOP DRAWINGS PER SPECIFICATIONS.
- RELOCATE EXISTING CAMERA.

1 FLOOR PLAN - AREA 'A' - TECHNOLOGY
SCALE: 1/8" = 1'-0"



2 FLOOR PLAN - AREA 'B' - TECHNOLOGY
SCALE: 1/8" = 1'-0"

TECHNOLOGY DEMOLITION NOTES (APPLIES TO ALL SHEETS)

- INFORMATION PROVIDED ON THESE DRAWINGS IS TAKEN FROM ARCHIVED DESIGN DRAWINGS AND FIELD OBSERVATIONS. CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PRICING AND COMMENCEMENT OF WORK.
- REFER TO THE RESPONSIBILITY MATRIX TO DETERMINE THE ENTITY RESPONSIBLE FOR REMOVING AND HANDLING ALL TECHNOLOGY DEVICES AND WIRING. CONTRACTOR SHALL NOT REMOVE OR HANDLE ANY DEVICES SPECIFICALLY DELINEATED TO IT DEPARTMENT EMPLOYEES AND VENDORS. CONTRACTOR SHALL COORDINATE REMOVAL OF DEMOLISHED ITEMS WITH RESPONSIBLE ENTITY.
- REFER TO ARCHITECTURAL PLANS FOR SPECIFIC AREAS OF DEMOLITION. PROVIDE FOR ANY AND ALL DEMOLITION WORK NECESSARY TO ACCOMMODATE NEW CONSTRUCTION, INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WORK. TECHNOLOGY DEVICES AND ASSOCIATED WIRING LOCATED WITHIN THE DEMOLITION AREA THAT WILL NO LONGER BE USED SHALL BE REMOVED AND PROPERLY DISPOSED OF BY RESPONSIBLE ENTITY, PER RESPONSIBILITY MATRIX. IF DEMOLITION OF AN EXISTING AREA TO REMAIN IS REQUIRED FOR NEW INSTALLATION WORK, THE CONTRACTOR SHALL RESTORE THE AFFECTED AREA IN REGARDS TO PATCHING AND PAINTING SURFACES. THE ENTITY RESPONSIBLE FOR THAT TECHNOLOGY DEVICE SHALL REPLACE DAMAGED ITEMS WITH MATCHING NEW ITEMS.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEENERGIZING CIRCUITS IN DEMOLITION AREAS TO INSURE A SAFE CONDITION.
- ALL EXISTING TECHNOLOGY RACEWAYS OR CABLES THAT ARE TO REMAIN IN AREAS WHERE CEILINGS ARE DEMOLISHED SHALL BE SUPPORTED BY THIS CONTRACTOR. BUNDLE LOW VOLTAGE SIGNAL CABLES TOGETHER USING TIE-WRAPS AND SUPPORT ABOVE CEILING WITH "J" BRACKETS OR "U" HOOKS ON A MINIMUM OF 4" TO 6" INTERVALS. FIRE ALARM CABLES SHALL NOT BE BUNDLED WITH OTHER CABLES AND SHALL BE SUPPORTED SEPARATELY FROM DATA, SECURITY, AND COMMUNICATIONS CABLING. THE CONTRACTOR SHALL FIELD DETERMINE THE BEST METHOD TO ACCOMMODATE OBSTRUCTIONS PRIOR TO SUPPORT INSTALLATION. CONTRACTOR SHALL ASSUME ALL LOW VOLTAGE SIGNAL CABLES ARE ACTIVE TO REMAIN UNLESS NOTED OTHERWISE. REPAIR OF REMAINING CABLES DAMAGED DURING WORK SHALL BE THE COORDINATED WITH THE RESPONSIBILITY PARTY PER RESPONSIBILITY MATRIX.
- THE EXISTING FIRE ALARM SYSTEM SHALL BE REPLACED. ALL DEVICES SHALL BE REPLACED WITH NEW AS SHOWN. ANY REVISIONS OR MODIFICATIONS WILL BE BASED ON A REPLACEMENT SYSTEM TO BE INSTALLED WHILE EXISTING SYSTEM IS TO REMAIN OPERATIONAL.
- UNLESS OTHERWISE NOTED, EXISTING CAMERAS ARE TO BE REPLACED WITH NEW. PATCH AND REPAIR AS REQUIRED TO RESTORE TO LIKE NEW CONDITIONS. ANY REVISIONS OR MODIFICATIONS WILL BE BASED ON A REPLACEMENT SYSTEM TO BE INSTALLED WHILE EXISTING SYSTEM IS TO REMAIN OPERATIONAL.
- UNLESS OTHERWISE NOTED, ALL ACCESS CONTROL DEVICES ARE TO BE REPLACED WITH NEW. PATCH AND REPAIR AS REQUIRED TO RESTORE TO LIKE NEW CONDITIONS. ANY REVISIONS OR MODIFICATIONS WILL BE BASED ON A REPLACEMENT SYSTEM TO BE INSTALLED WHILE EXISTING SYSTEM IS TO REMAIN OPERATIONAL.
- UNLESS NOTED OTHERWISE, IN AREAS WHERE EXISTING DEVICES OR NOTES ARE NOT SHOWN, IT IS INTENDED THAT THE EXISTING DEVICES AND CONTROLS SHALL REMAIN. REMOVE, STORE, PROTECT & REINSTALL AS REQUIRED FOR DEMOLITION.

TELECOM, DATA & SECURITY SYMBOL LEGEND

| SYMBOL | DESCRIPTION |
|----------|--|
| ◀ | 4" SQUARE BOX WITH SINGLE GANG ADAPTER FOR TELEPHONE OUTLET. |
| ◀ W | 4" SQUARE BOX WITH SINGLE GANG ADAPTER FOR ONE WALL MOUNTED TELEPHONE OUTLET. REFER TO ARCH. ELEVATIONS. |
| ◀ D | 4" SQUARE BOX WITH SINGLE GANG ADAPTER FOR DATA OUTLET. |
| ◀ X | 4" SQUARE BOX WITH SINGLE GANG ADAPTER FOR DATA OUTLET(S). "X" INDICATES THE NUMBER OF OUTLETS AND CABLES. |
| ◀ V | 4" SQUARE BOX WITH SINGLE GANG ADAPTER (UNO) FOR VENDOR SUPPLIED CABLE AND OUTLET. |
| ● | FLOOR MOUNTED BOX FOR TELEPHONE OUTLETS. |
| ● | FLOOR MOUNTED BOX FOR TELEPHONE OUTLET AND DATA OUTLET. |
| ⊙ | CEILING MOUNTED WIRELESS ACCESS POINT |
| ⊙ | CEILING MOUNTED BOX FOR DATA OUTLET(S). |
| ◀ K | 4" SQUARE BOX WITH SINGLE GANG ADAPTER FOR CATV SYSTEM OUTLET. |
| ◀ M | MULTI-OUTLET |
| ⊙ V | WALL MOUNTED VOLUME CONTROL SWITCH FOR P.A. SPEAKER. |
| ⊙ // # | P.A. SPEAKER - CEILING OR WALL MOUNTED. // # INDICATES PROGRAM ZONE/HARDWIRED ZONE. |
| ⊙ V // # | P.A. SPEAKER - CEILING OR WALL MOUNTED WITH VOLUME CONTROL MOUNTED ON SPEAKER. |
| ⊙ | MICROPHONE OUTLET - FLOOR OR WALL MOUNTED. |
| ◀ P | CEILING MOUNTED PROJECTOR, CASIO XJ-S400 SERIES OR APPROVED EQUAL |
| CR | CARD READER - WALL MOUNTED. |
| SS | SECURITY SYSTEM KEY PAD - WALL MOUNTED |
| FIXED-C | SECURITY SYSTEM CAMERA, FIXED |
| ⊙ | SECURITY SYSTEM CAMERA, MULTI-LENS |
| DC | SECURITY DOOR CONTACTOR (WIRELESS) |
| MD | SECURITY MOTION DETECTOR - CEILING OR WALL MOUNTED. # INDICATES THE DEGREE OF MOTION DETECTION. |
| ES | INTERCOM SYSTEM CALL BUTTON WITH VOLUME CONTROL. |
| RR | DOOR REMOTE RELEASE |
| IM | INTERCOM MASTER |
| IS | INTERCOM STATION |
| IS-H | INTERCOM SYSTEM HORN |
| IS-E | INTERCOM SYSTEM EXTERIOR WEATHERPROOF HORN |
| ⊙ | VALCOM VLS 20 DIGITAL DISPLAY IN RECEPTION AREA |

NOTE 1: FOR ALL TECHNOLOGY DEVICES, CONTRACTOR SHALL PROVIDE INFRASTRUCTURE (CONDUIT, BACK BOX ETC.). CONTRACTOR SHALL STUB 1" E.C. W/PULLSTRING TO ABOVE ACCESSIBLE CEILING SPACE FOR ALL DEVICES. PROVIDE CONDUIT BUSHINGS TO AVOID CABLE CHAFING. PROVIDE LARGER CONDUIT SIZES WHERE SPECIFICALLY NOTED ON DRAWINGS AND DETAILS. ALL PATHWAYS SHALL BE RUN TO ABOVE CEILING. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS DETAILING SPECIFIC INFRASTRUCTURE COMPONENTS AND ROUTING FOR DISD REVIEW. SHOP DRAWINGS SHALL BE COORDINATED WITH CABLING, SECURITY, ACCESS CONTROL, AND PA CONTRACTORS.

NOTE 2: A COMPLETE LIST OF FIRE ALARM AND TECHNOLOGY DEVICE SYMBOLS HAS BEEN PROVIDED FOR REFERENCE. NOT ALL DEVICES WILL BE USED ON THIS PROJECT.

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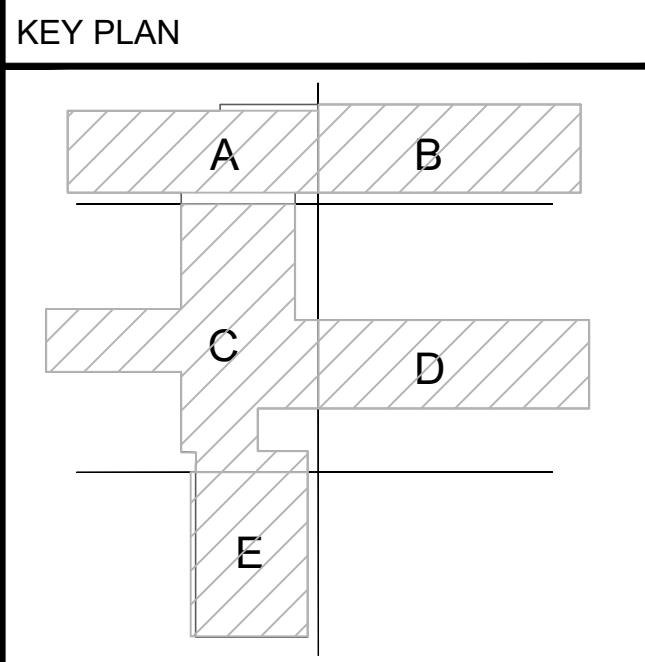
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FLOOR PLAN TECHNOLOGY
 Sheet Number
T201

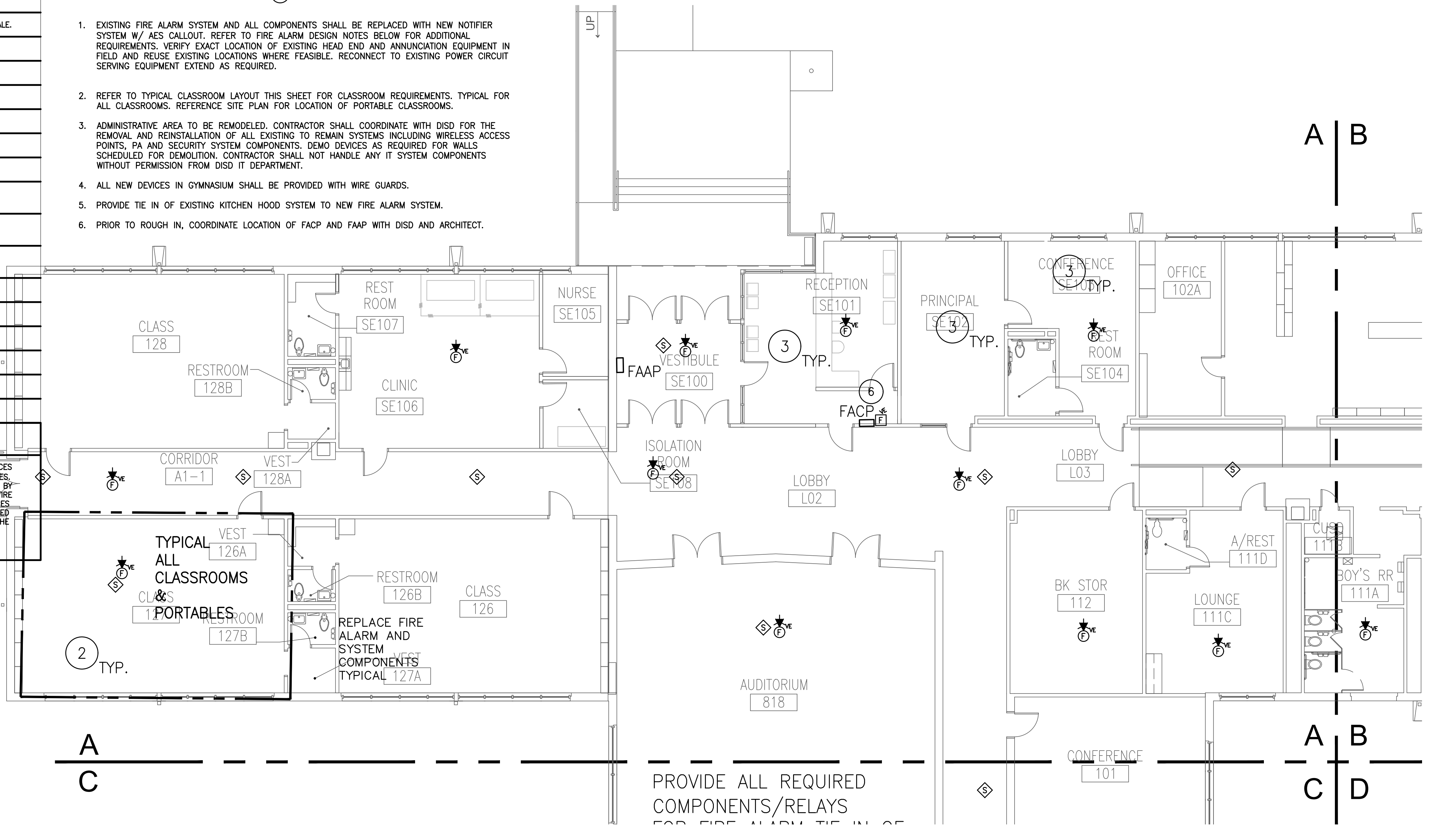
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| FIRE ALARM SYMBOL LEGEND | |
|--------------------------|--|
| SYMBOL | DESCRIPTION |
| M | SMOKE DOOR HOLDER |
| M ^{SD} | MOTORIZED FIRE, SMOKE OR FIRE/SMOKE DAMPER |
| FAA | FIRE ALARM REMOTE ANNUNCIATOR |
| FACP | FIRE ALARM CONTROL PANEL |
| F | FIRE ALARM PULL STATION |
| F ^{VE} | FIRE ALARM AUDIBLE & VISUAL SIGNAL |
| F ^{VE} | FIRE ALARM AUDIBLE SIGNAL |
| F ^{VE} | FIRE ALARM VISUAL SIGNAL |
| FS | FIRE ALARM SPRINKLER FLOW SWITCH |
| TS | FIRE ALARM SPRINKLER TAMPER SWITCH |
| PS | FIRE ALARM SPRINKLER PRESSURE SWITCH |
| SD | SMOKE DETECTOR, CEILING OR DUCT MOUNTED |
| HD | HEAT DETECTOR |
| F | FIREMAN'S PHONE JACK, STUB 3/4" ABOVE ACCESSIBLE CEILING FROM OUTLET BOX |

- FIRE ALARM NOTES INDICATED BY SYMBOL * (F)
- EXISTING FIRE ALARM SYSTEM AND ALL COMPONENTS SHALL BE REPLACED WITH NEW NOTIFIER SYSTEM W/ AFS CALLOUT. REFER TO FIRE ALARM DESIGN NOTES BELOW FOR ADDITIONAL REQUIREMENTS. VERIFY EXACT LOCATION OF EXISTING HEAD END AND ANNUNCIATION EQUIPMENT IN FIELD AND REUSE EXISTING LOCATIONS WHERE FEASIBLE. RECONNECT TO EXISTING POWER CIRCUIT SERVING EQUIPMENT EXTEND AS REQUIRED.
 - REFER TO TYPICAL CLASSROOM LAYOUT THIS SHEET FOR CLASSROOM REQUIREMENTS. TYPICAL FOR ALL CLASSROOMS. REFERENCE SITE PLAN FOR LOCATION OF PORTABLE CLASSROOMS.
 - ADMINISTRATIVE AREA TO BE REMODELED. CONTRACTOR SHALL COORDINATE WITH DISD FOR THE REMOVAL AND REINSTALLATION OF ALL EXISTING TO REMAIN SYSTEMS INCLUDING WIRELESS ACCESS POINTS, PA AND SECURITY SYSTEM COMPONENTS. DEMO DEVICES AS REQUIRED FOR WALLS SCHEDULED FOR DEMOLITION. CONTRACTOR SHALL NOT HANDLE ANY IT SYSTEM COMPONENTS WITHOUT PERMISSION FROM DISD IT DEPARTMENT.
 - ALL NEW DEVICES IN GYMNASIUM SHALL BE PROVIDED WITH WIRE GUARDS.
 - PROVIDE TIE IN OF EXISTING KITCHEN HOOD SYSTEM TO NEW FIRE ALARM SYSTEM.
 - PRIOR TO ROUGH IN, COORDINATE LOCATION OF FACP AND FAAP WITH DISD AND ARCHITECT.

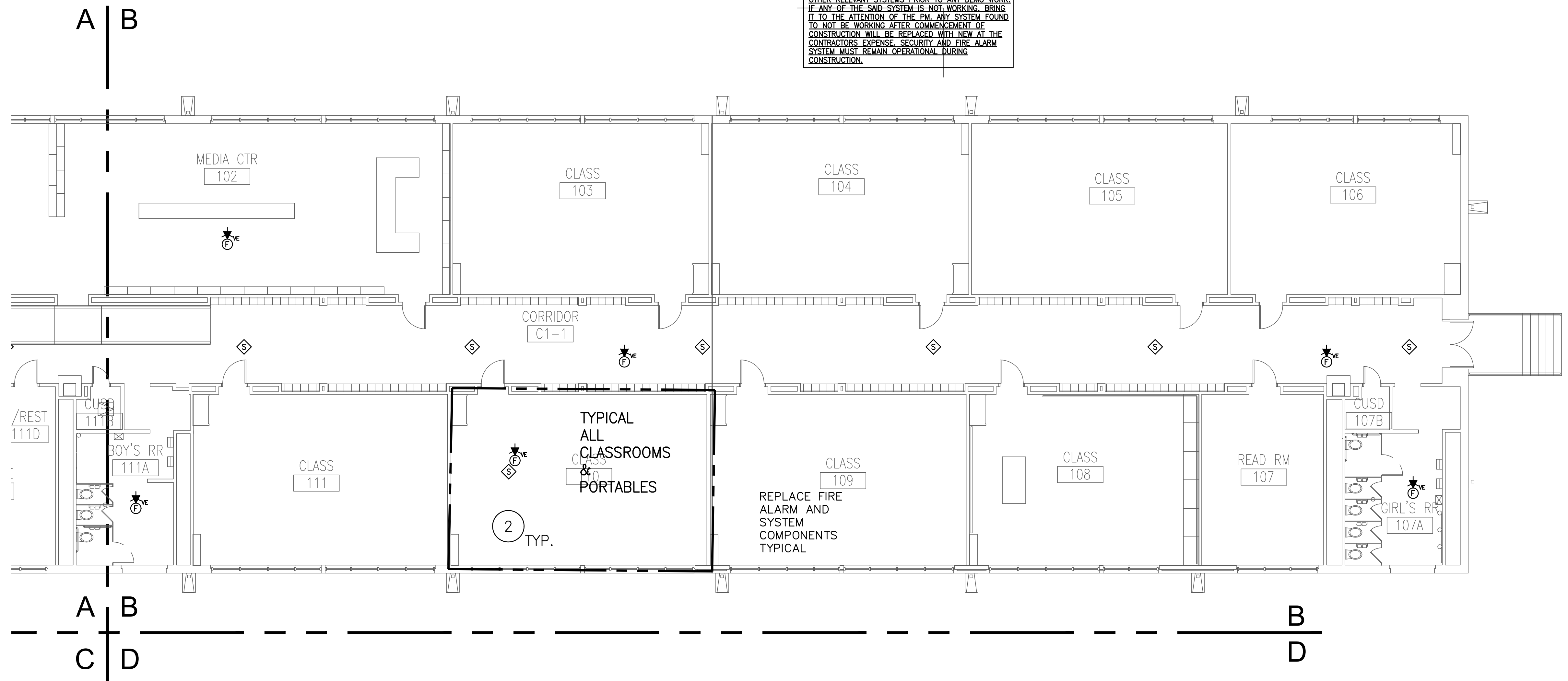
FIRE ALARM DEFERRED APPROVAL SYSTEM

THESE DRAWINGS ARE INTENDED TO SHOW GENERAL GUIDELINES FOR THE PLACEMENT OF FIRE ALARM DEVICES AS THEY RELATE TO OTHER (NON-FIRE ALARM) SYSTEMS, COST ESTIMATION, AND FOR PERMITTING PURPOSES. THE FINAL FIRE ALARM PLANS TO BE SUBMITTED FOR AHP APPROVAL SHALL BE PRODUCED AND APPROVED BY A NEET LEVEL III CERTIFIED FIRE ALARM SYSTEM DESIGNER, LICENSED BY THE STATE FIRE MARSHAL. THE FIRE ALARM CONTRACTOR SHALL PROVIDE ALL DEVICES SHOWN ON THESE DRAWINGS AND ANY ADDITIONAL DEVICES OR COMPONENTS REQUIRED FOR A COMPLETE SYSTEM. IF OTHER DEVICES ARE ANTICIPATED TO BE REQUIRED FOR SYSTEM FUNCTIONALITY, COMPLIANCE WITH NATIONAL AND LOCAL CODES OR APPROVAL OF THE AHP, THE CONTRACTOR SHALL QUALIFY THEIR BID AND PROVIDE AN ADD ALTERNATE PRICE, MAKING NOTE OF THE SPECIFIC ANTICIPATED ADDITIONAL REQUIREMENTS.



1 FLOOR PLAN - AREA 'A' - FIRE ALARM
SCALE: 1/8" = 1'-0"

CONTRACTOR MUST TEST PA, FA, IT, SECURITY AND OTHER RELEVANT SYSTEMS PRIOR TO ANY DEMO WORK. IF ANY OF THE SAID SYSTEM IS NOT WORKING, BRING IT TO THE ATTENTION OF THE PM. ANY SYSTEM FOUND TO NOT BE WORKING AFTER COMMENCEMENT OF CONSTRUCTION WILL BE REPLACED WITH NEW AT THE CONTRACTOR'S EXPENSE. SECURITY AND FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING CONSTRUCTION.



2 FLOOR PLAN - AREA 'B' - FIRE ALARM
SCALE: 1/8" = 1'-0"

GENERAL TECHNOLOGY NOTES (APPLIES TO SHEETS):

- CONTRACTOR SHALL DESIGN AND INSTALL A COMPLETE CAMPUS WIDE FIRE ALARM SYSTEM INCLUDING PORTABLE BUILDINGS. REFER TO FIRE ALARM SYSTEM NOTES THIS SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS. EXISTING FIRE ALARM SYSTEM SHALL BE DEMOLISHED.
- ALL COMPONENTS OF SYSTEM SHALL BE OF A LISTED AND APPROVED TYPE.
- CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE DURING INSTALLATION AND TESTING FOR ANY DAMAGE CAUSED BY THE CONTRACTOR'S WORK.
- SEE SPECIFICATIONS FOR COMPLETE SYSTEM REQUIREMENTS.
- ALL DEVICE LOCATIONS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE EXACT DEVICE LOCATIONS IN FIELD.
- IN HARD CEILING AREAS WHERE FIRE ALARM SYSTEM COMPONENTS, INCLUDING BUT NOT LIMITED TO SPEAKERS, ARE REPLACED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, PATCH, AND PAINT ALL CEILING SURFACES TO "LIKE NEW" CONDITION.

FIRE ALARM DESIGN NOTES:
(APPLIES TO ALL SHEETS)

EXISTING FIRE ALARM SYSTEM TO DEMO'D IN IT'S ENTIRETY AND REPLACED WITH NEW. ENSURE THAT ALL EXISTING FIRE ALARM EQUIPMENT HAS BEEN REMOVED AND PROPERLY BOXED FOR PICKUP BY THE DISD ALARMS DEPARTMENT, CREATE TRANSMITTAL WITH ALL ITEMS LISTED AND OBTAIN DISD SIGNATURE.

FIRE ALARM DESIGN, ENGINEERING, DESIGN APPROVAL, CODE COMPLIANCE, INSTALLATION AND FINAL ACCEPTANCE BY THE AUTHORITIES HAVING JURISDICTION IS THE SOLE RESPONSIBILITY OF THE STATE LICENSED FIRE ALARM CONTRACTOR.

CONTRACT REQUIRED SUBMITTALS SHALL ONLY BE SUBMITTED FOR ENGINEERING REVIEW AFTER THE CONTRACTOR HAS RECEIVED WRITTEN APPROVAL FROM THE AHP.

PROJECT NOTES:

- WALL MOUNTED FIRE ALARM DEVICES SHALL BE MOUNTED AT 80" AFF.
- FIRE ALARM PULL STATIONS SHALL BE MOUNTED AT 48" AFF. EACH PULL STATION SHALL INCLUDE A STOPPER II ENCLOSURE.
- TYPICAL CEILING MOUNTED SMOKE DETECTOR INSTALLATION SHALL BE IN CENTER OF CEILING TILE. FIELD VERIFY THAT EACH DETECTOR IS MOUNTED A MINIMUM OF 3 FEET FROM ANY AIR SUPPLY DEVICE. FIELD COORDINATE WITH LIGHT FIXTURE LOCATIONS.
- PROVIDE FIRE ALARM BOOSTER AND PANEL CONNECTIONS TO A DEDICATED SINGLE POLE CIRCUIT BREAKER AS MADE AVAILABLE FROM DEMO OF EXISTING. SIZE RACEWAYS AND CONDUCTORS FOR VOLTAGE DROP.
- CONTRACTOR SHALL USE WHITE, CEILING MOUNTED A/V DEVICES AS MUCH AS POSSIBLE.
- COORDINATE WITH HVAC DRAWINGS FOR DUCT MTD. SMOKE DETECTORS. SMOKE DUCT DETECTORS SHALL BE POWERED THROUGH THE FIRE ALARM SYSTEM AND NOT POWERED FROM THE EQUIPMENT BEING SERVED IN ANY WAY. CONTRACTOR SHALL LOCATE ALL EXISTING SMOKE DUCT DETECTORS AND REPLACE WITH NEW. PROVIDE RELAYS AS REQUIRED FOR UNIT SHUT DOWN.
- PROVIDE ALL REQUIRED RELAYS AND COMPONENTS AS REQUIRED FOR SHUT DOWN OF SOUND SYSTEMS/ ELEVATORS AS REQUIRED BY FIRE CODE.
- COORDINATE WITH ARCHITECT FOR DOOR INTERFACE REQUIREMENTS.
- COORDINATE VISUAL & AUDIBLE APPLIANCE LOCATIONS AND QUANTITY PER CODE.
- FIRE ALARM SYSTEM SHALL BE EQUIPPED WITH VOICE ANNUNCIATION.
- ALL BUILDINGS ON CAMPUS INCLUDING THE SEVERAL PORTABLE BUILDINGS ON THIS CAMPUS MUST BE CONNECTED TO THE MAIN FACP AND BE PROTECTED BY THE FIRE ALARM SYSTEM.
- FIRE ALARM SYSTEM SHALL HAVE SURGE PROTECTION AT EACH LOCATION THE SIGNALING LINE CIRCUIT LEAVES THE MAIN BUILDING OR RETURNS TO THE BUILDING FROM THE PORTABLES.
- COMPONENTS LOCATED IN THE GYMNASIUM SHALL BE PROTECTED BY WIRE GUARD.
- PROVIDE FIRE ALARM TIE IN TO ELEVATOR SHUT DOWN AS REQUIRED.
- ENSURE THAT ATTIC STOCK IS TURNED OVER TO FIRE ALARM DEPARTMENT REPRESENTATIVE DURING CLOSEOUT. PRODUCE TRANSMITTAL AND OBTAIN DISD SIGNATURE. OBTAIN GREEN TAG INDICATING FIRE ALARM SYSTEM COMPLIANCE AND READINESS FOR USE. GREEN TAG FOR FINAL INSPECTION TO BE INCLUDED IN CLOSE-OUT DOCUMENTS. COPY OF THE GREEN TAG FOR FINAL INSPECTION AND CODE APPROVED STAMPED DRAWINGS TO BE PLACED IN DOCUMENT HOLDER NEXT TO FA PANEL.

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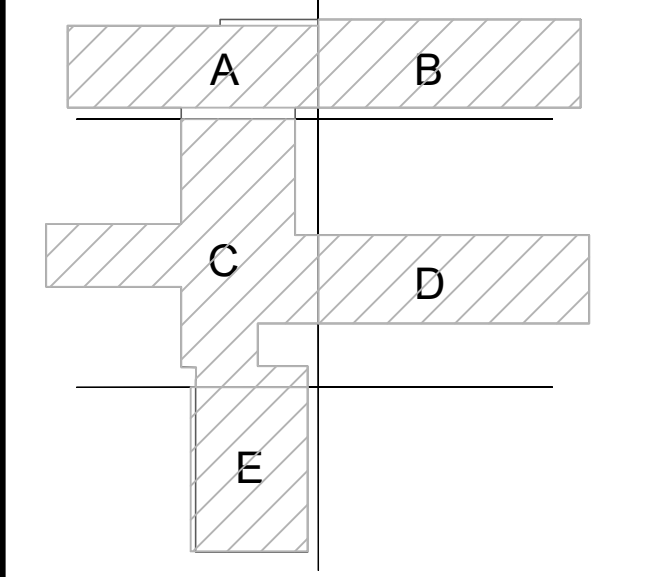
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KEY PLAN



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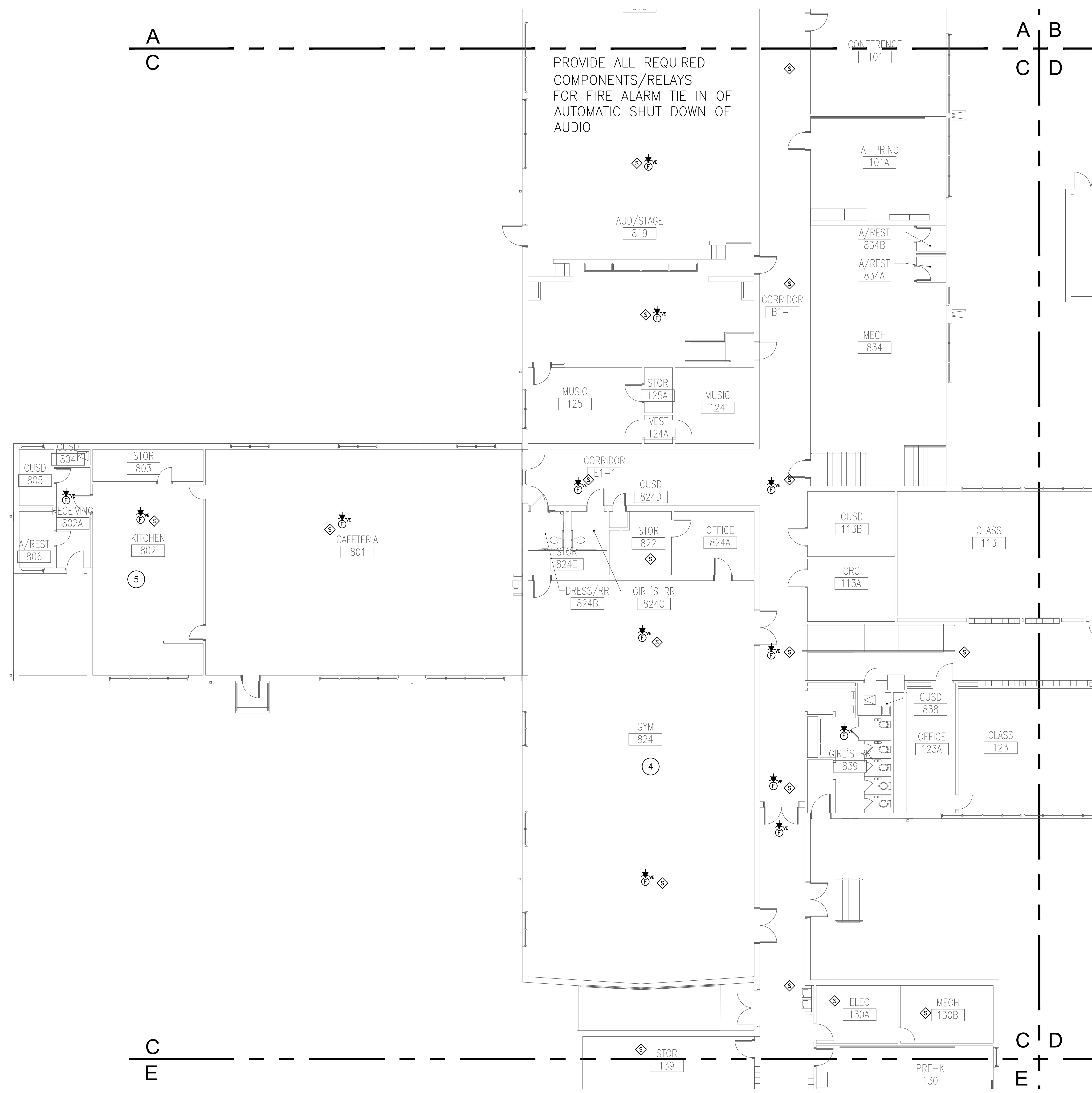
FLOOR PLAN
FIRE ALARM

Sheet Number

T301

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WWW.SIMSENG.COM | REG.# 10371



PROVIDE ALL REQUIRED COMPONENTS/RELAYS FOR FIRE ALARM TIE IN OF AUTOMATIC SHUT DOWN OF AUDIO

- FIRE ALARM NOTES INDICATED BY SYMBOL "1"
- EXISTING FIRE ALARM SYSTEM AND ALL COMPONENTS SHALL BE REPLACED WITH NEW NOTIFIER SYSTEM W/ AES CALLOUT. REFER TO FIRE ALARM DESIGN NOTES BELOW FOR ADDITIONAL REQUIREMENTS. VERIFY EXACT LOCATION OF EXISTING HEAD END AND ANNUNCIATION EQUIPMENT IN FIELD AND REUSE EXISTING LOCATIONS WHERE FEASIBLE. RECONNECT TO EXISTING POWER CIRCUIT SERVING EQUIPMENT EXTEND AS REQUIRED.
 - REFER TO TYPICAL CLASSROOM LAYOUT THIS SHEET FOR CLASSROOM REQUIREMENTS. TYPICAL FOR ALL CLASSROOMS. REFERENCE SITE PLAN FOR LOCATION OF PORTABLE CLASSROOMS.
 - ADMINISTRATIVE AREA TO BE REMODELED. CONTRACTOR SHALL COORDINATE WITH DISD FOR THE REMOVAL AND REINSTALLATION OF ALL EXISTING TO REMAIN SYSTEMS INCLUDING WIRELESS ACCESS POINTS, PA AND SECURITY SYSTEM COMPONENTS. DEMO DEVICES AS REQUIRED FOR WALLS SCHEDULED FOR DEMOLITION. CONTRACTOR SHALL NOT HANDLE ANY IT SYSTEM COMPONENTS WITHOUT PERMISSION FROM DISD IT DEPARTMENT.
 - ALL NEW DEVICES IN GYMNASIUM SHALL BE PROVIDED WITH WIRE GUARDS.
 - PROVIDE TIE IN OF EXISTING KITCHEN HOOD SYSTEM TO NEW FIRE ALARM SYSTEM.
 - PRIOR TO ROUGH IN, COORDINATE LOCATION OF FAAP AND FAAP WITH DISD AND ARCHITECT.

1 FLOOR PLAN - AREA 'C' - FIRE ALARM
SCALE: 1/8" = 1'-0"

CONTRACTOR MUST TEST PA, FA, IT, SECURITY AND OTHER RELEVANT SYSTEMS PRIOR TO ANY DEMO WORK. IF ANY OF THE SAID SYSTEM IS NOT WORKING, BRING IT TO THE ATTENTION OF THE PM. ANY SYSTEM FOUND TO NOT BE WORKING AFTER COMMENCEMENT OF CONSTRUCTION WILL BE REPLACED WITH NEW AT THE CONTRACTORS EXPENSE. SECURITY AND FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING CONSTRUCTION.

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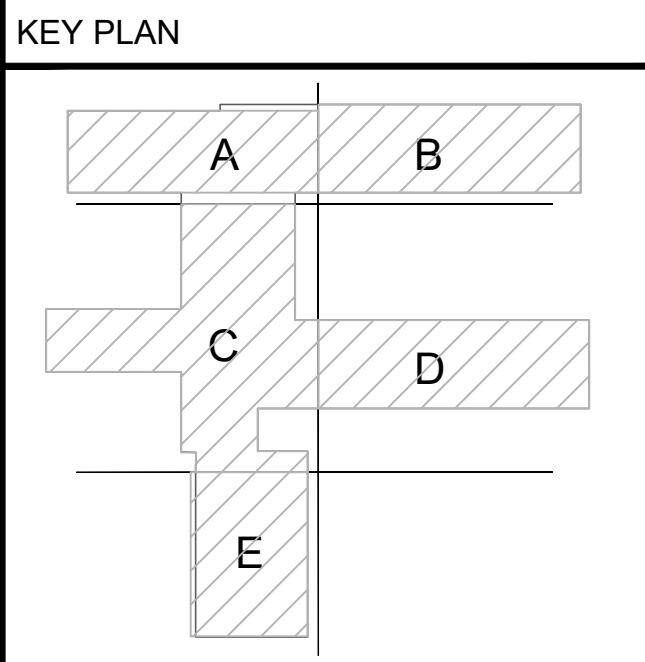
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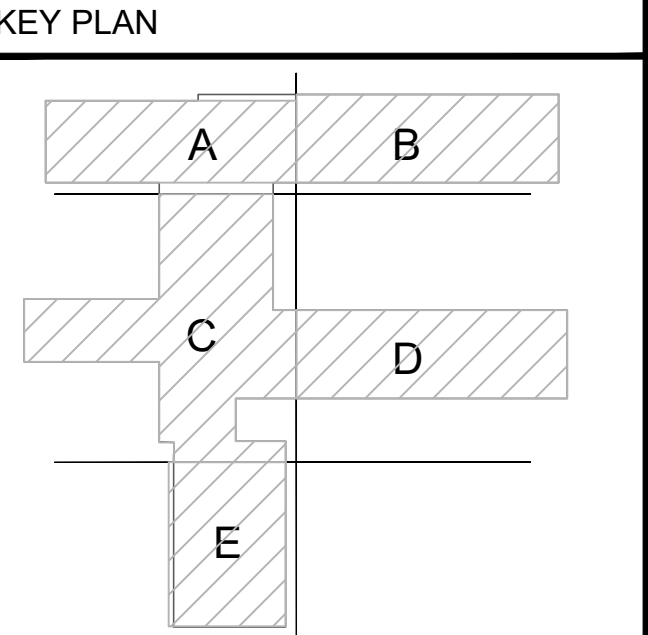
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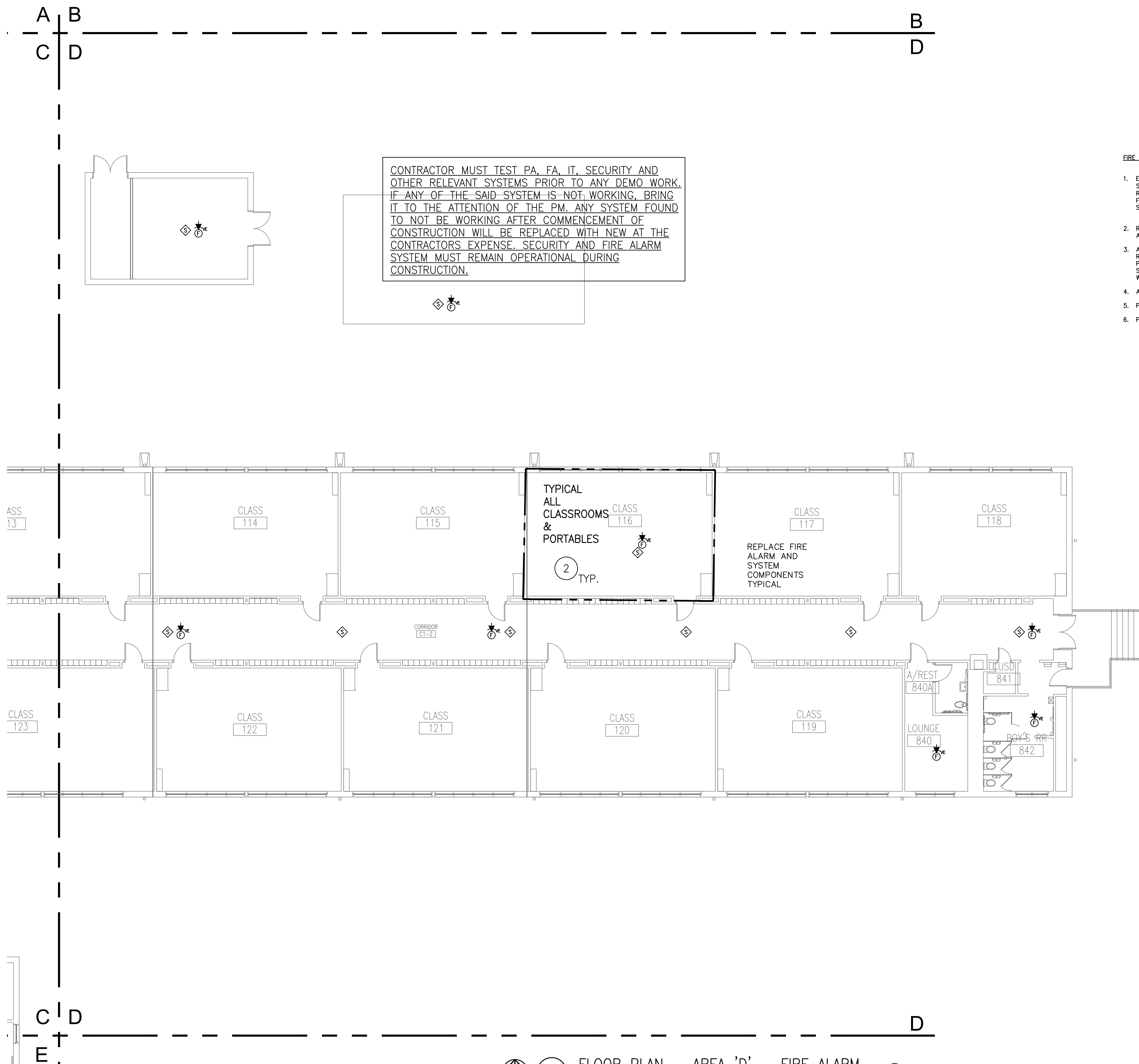
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**FLOOR PLAN
 FIRE ALARM**
 Sheet Number
T303



- FIRE ALARM NOTES INDICATED BY SYMBOL
- EXISTING FIRE ALARM SYSTEM AND ALL COMPONENTS SHALL BE REPLACED WITH NEW NOTIFIER SYSTEM W/ AES CALLOUT. REFER TO FIRE ALARM DESIGN NOTES BELOW FOR ADDITIONAL REQUIREMENTS. VERIFY EXACT LOCATION OF EXISTING HEAD END AND ANNUNCIATION EQUIPMENT IN FIELD AND REUSE EXISTING LOCATIONS WHERE FEASIBLE. RECONNECT TO EXISTING POWER CIRCUIT SERVING EQUIPMENT EXTEND AS REQUIRED.
 - REFER TO TYPICAL CLASSROOM LAYOUT THIS SHEET FOR CLASSROOM REQUIREMENTS. TYPICAL FOR ALL CLASSROOMS. REFERENCE SITE PLAN FOR LOCATION OF PORTABLE CLASSROOMS.
 - ADMINISTRATIVE AREA TO BE REMODELED. CONTRACTOR SHALL COORDINATE WITH DISD FOR THE REMOVAL AND REINSTALLATION OF ALL EXISTING TO REMAIN SYSTEMS INCLUDING WIRELESS ACCESS POINTS, PA AND SECURITY SYSTEM COMPONENTS. DEMO DEVICES AS REQUIRED FOR WALLS SCHEDULED FOR DEMOLITION. CONTRACTOR SHALL NOT HANDLE ANY IT SYSTEM COMPONENTS WITHOUT PERMISSION FROM DISD IT DEPARTMENT.
 - ALL NEW DEVICES IN GYMNASIUM SHALL BE PROVIDED WITH WIRE GUARDS.
 - PROVIDE TIE IN OF EXISTING KITCHEN HOOD SYSTEM TO NEW FIRE ALARM SYSTEM.
 - PRIOR TO ROUGH IN, COORDINATE LOCATION OF FACP AND FAAP WITH DISD AND ARCHITECT.

1 FLOOR PLAN - AREA 'D' - FIRE ALARM
 SCALE: 1/8" = 1'-0"

NOT FOR CONSTRUCTION
 THIS DOCUMENT IS ISSUED FOR COORDINATION UNDER THE AUTHORITY OF CHRISTOPHER W. SIMS, P.E. #94747. IT SHALL NOT BE USED FOR CONSTRUCTION OR PERMITTING.
 DATE: 8/16/2024

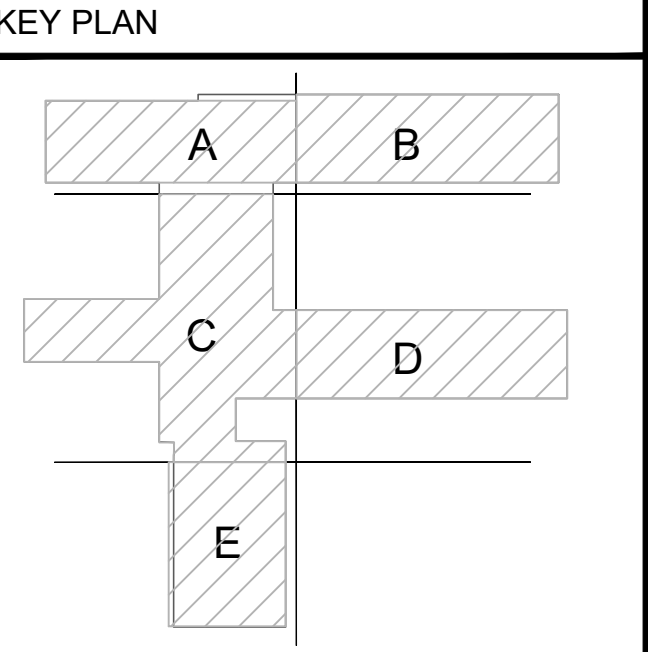
CONSULTANT:

OWNER'S REPRESENTATIVE:
 DALLAS ISD CONSTRUCTION BOND SERVICES
 9400 NORTH CENTRAL EXPRESSWAY SUITE 800
 Dallas, Texas 75231

Dallas Independent School District
 2020 Bond Program
 Mark Twain School for the Talented and Gifted
 724 Green Cove Lane - Dallas, Texas 75232
 100% CONSTRUCTION DOCUMENTS

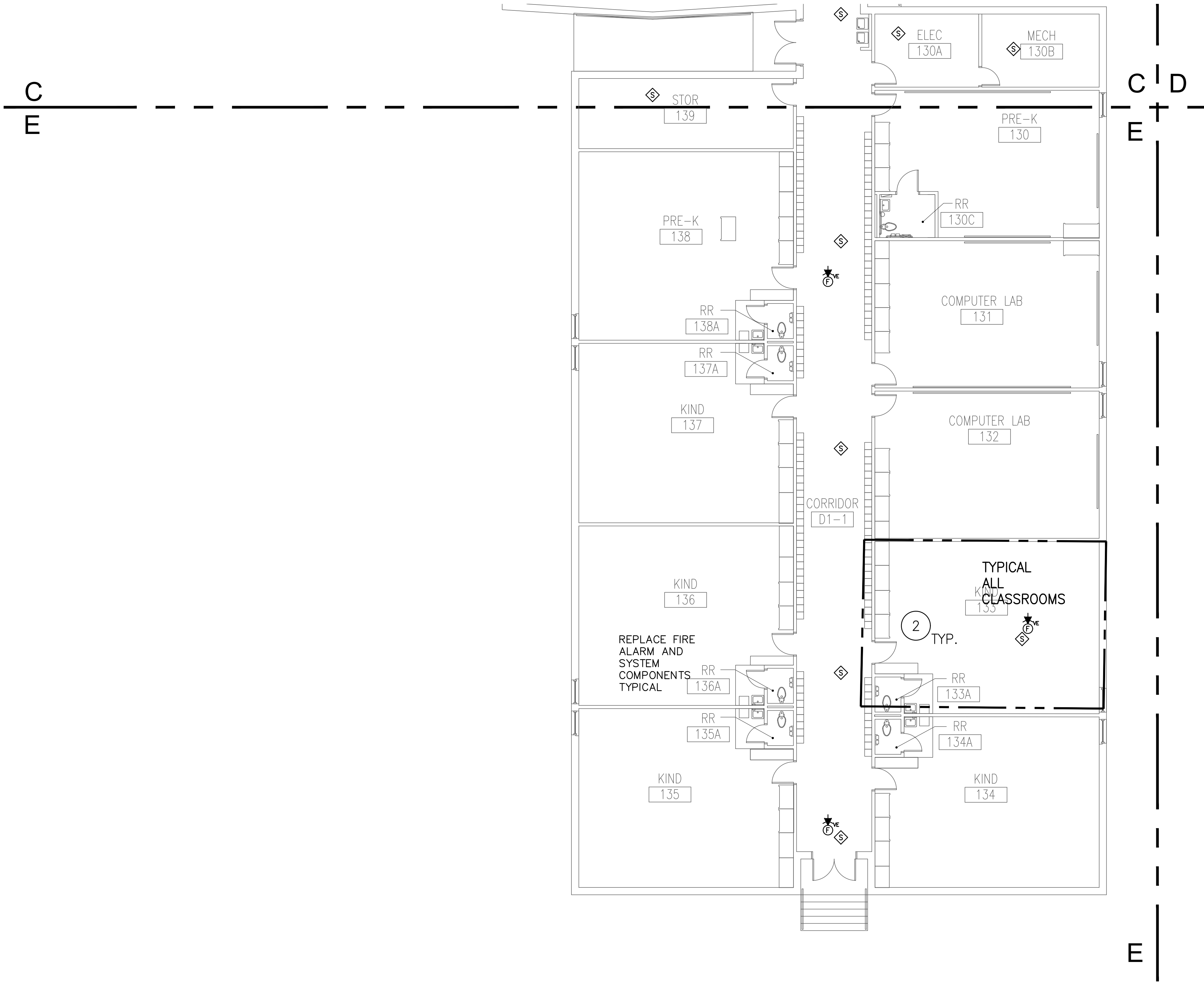
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JMA Project Number:
 Date: 08/09/2024
 Scale:

Sheet Title
**FLOOR PLAN
 FIRE ALARM**
 Sheet Number
T304



- FIRE ALARM NOTES INDICATED BY SYMBOL * (#)
- EXISTING FIRE ALARM SYSTEM AND ALL COMPONENTS SHALL BE REPLACED WITH NEW NOTIFIER SYSTEM W/ AES CALLOUT. REFER TO FIRE ALARM DESIGN NOTES BELOW FOR ADDITIONAL REQUIREMENTS. VERIFY EXACT LOCATION OF EXISTING HEAD END AND ANNUNCIATION EQUIPMENT IN FIELD AND REUSE EXISTING LOCATIONS WHERE FEASIBLE. RECONNECT TO EXISTING POWER CIRCUIT SERVING EQUIPMENT EXTEND AS REQUIRED.
 - REFER TO TYPICAL CLASSROOM LAYOUT THIS SHEET FOR CLASSROOM REQUIREMENTS. TYPICAL FOR ALL CLASSROOMS. REFERENCE SITE PLAN FOR LOCATION OF PORTABLE CLASSROOMS.
 - ADMINISTRATIVE AREA TO BE REMODELED. CONTRACTOR SHALL COORDINATE WITH DISD FOR THE REMOVAL AND REINSTALLATION OF ALL EXISTING TO REMAIN SYSTEMS INCLUDING WIRELESS ACCESS POINTS, PA AND SECURITY SYSTEM COMPONENTS. DEMO DEVICES AS REQUIRED FOR WALLS SCHEDULED FOR DEMOLITION. CONTRACTOR SHALL NOT HANDLE ANY IT SYSTEM COMPONENTS WITHOUT PERMISSION FROM DISD IT DEPARTMENT.
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 - PROVIDE TIE IN OF EXISTING KITCHEN HOOD SYSTEM TO NEW FIRE ALARM SYSTEM.
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1 FLOOR PLAN - AREA 'E' - FIRE ALARM
 SCALE: 1/8" = 1'-0"

CONTRACTOR MUST TEST PA, FA, IT, SECURITY AND OTHER RELEVANT SYSTEMS PRIOR TO ANY DEMO WORK. IF ANY OF THE SAID SYSTEM IS NOT WORKING, BRING IT TO THE ATTENTION OF THE PM. ANY SYSTEM FOUND TO NOT BE WORKING AFTER COMMENCEMENT OF CONSTRUCTION WILL BE REPLACED WITH NEW AT THE CONTRACTOR'S EXPENSE. SECURITY AND FIRE ALARM SYSTEM MUST REMAIN OPERATIONAL DURING CONSTRUCTION.

