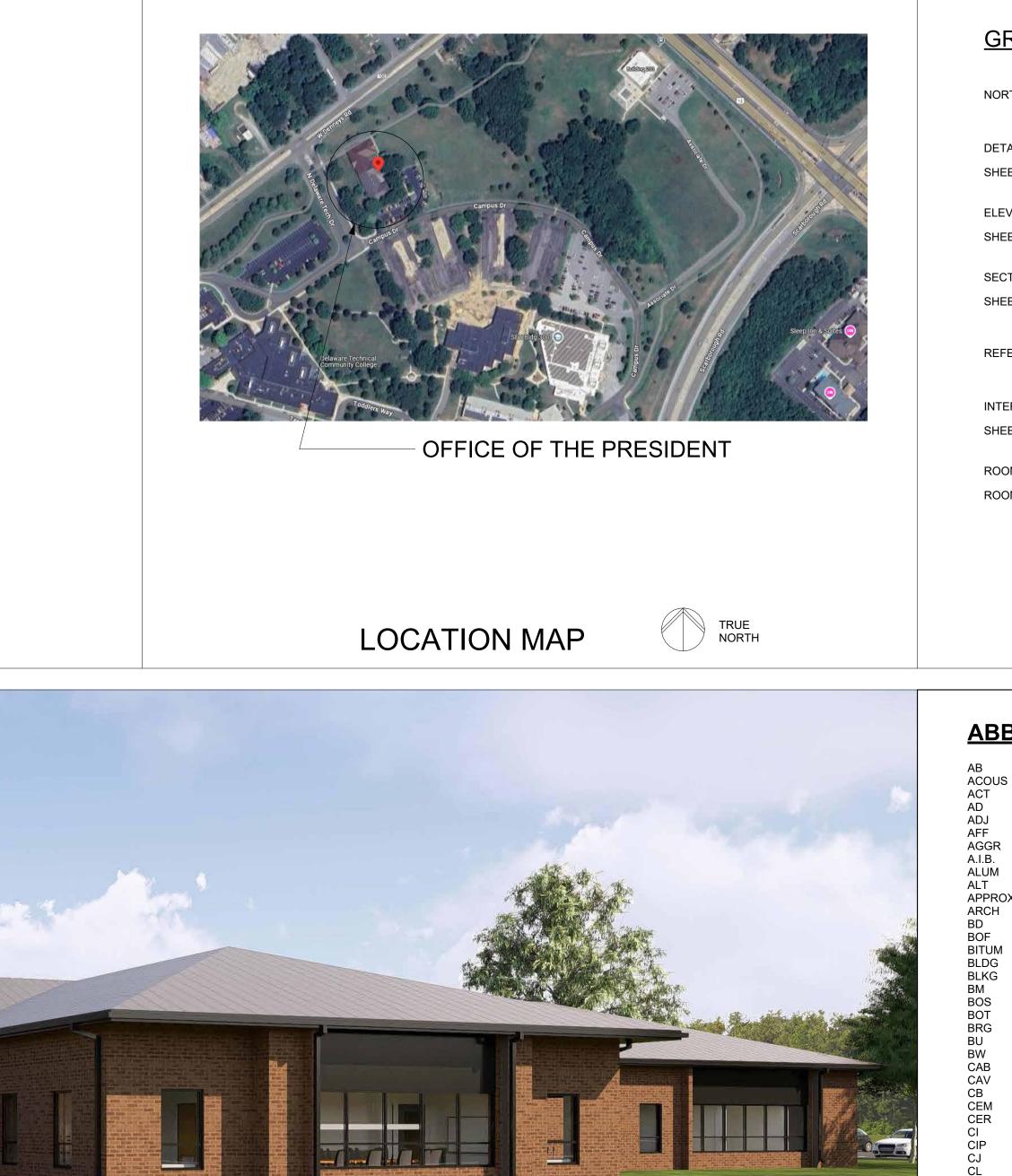
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|---------------|---|--|--|--|
| SHEET         |   |  |  |  |
| NUMBER        | SHEET NAME                              |  |  |  |
| General       |   |  |  |  |
| A001          | ACCESSIBILITY DETAILS                   |  |  |  |
| A002          | LIFE SAFETY PLANS                       |  |  |  |
| A004          | PARTITION TYPES & NOTES                 |  |  |  |
| Civil         |   |  |  |  |
| CC-01         | INDEX PLAN                              |  |  |  |
| CC-02         | EXISTING CONDITIONS AND DEMOLITION PLAN |  |  |  |
| CC-03         | PROPOSED CONDITIONS AND GRADING PLAN    |  |  |  |
| CC-04         | EROSION AND SEDIMENT CONTROL PLAN       |  |  |  |
| CC-05         | SITE CONSTRUCTION DETAILS               |  |  |  |
| Structural    |   |  |  |  |
| S001          | STRUCTURAL NOTES                        |  |  |  |
| S002          | SPECIAL INSPECTION NOTES                |  |  |  |
| S101          | FOUNDATION AND ROOF FRAMING PLANS       |  |  |  |
| S201          | SECTIONS & DETAILS                      |  |  |  |
| S301          | TYPICAL SECTIONS & DETAILS              |  |  |  |
| Architectural |   |  |  |  |
| A101          | DEMOLITION PLAN                         |  |  |  |
| A102          | ENLARGED DEMOLITION PLAN                |  |  |  |
| A104          | ROOF DEMOLITION PLAN                    |  |  |  |
| A103          | REFLECTED CEILING DEMOLITION PLAN       |  |  |  |
| A111          | FLOOR PLAN                              |  |  |  |
| A112          | ENLARGED FLOOR PLANS                    |  |  |  |
| A121          | REFLECTED CEILING PLAN                  |  |  |  |
| A122          | ENLARGED REFLECTED CEILING PLANS        |  |  |  |
| A123          | MECHANICAL ACCESS PLATFORM              |  |  |  |
| A131          | ROOF PLAN                               |  |  |  |
| A141          | FINISH PLANS                            |  |  |  |
| A151          | FURNITURE PLANS                         |  |  |  |
| A201          | EXTERIOR BUILDING ELEVATIONS            |  |  |  |
| A301          | BUILDING SECTIONS                       |  |  |  |
| A311          | WALL SECTIONS                           |  |  |  |
| A451          | CASEWORK                                |  |  |  |
| A511          | CEILING DETAILS                         |  |  |  |
| A521          | EXTERIOR DETAILS                        |  |  |  |
| A601          | DOORS                                   |  |  |  |
| A611          | WINDOWS AND STOREFRONTS                 |  |  |  |

| DRAWING LIST      |   |  |  |  |
|-------------------|---|--|--|--|
| SHEET<br>NUMBER   | SHEET NAME                                      |  |  |  |
|                   |   |  |  |  |
| Fire Protection   |   |  |  |  |
| F000              | FIRE PROTECTION - GENERAL NOTES                 |  |  |  |
| F101              | FIRE PROTECTION FLOOR PLAN - NEW WORK           |  |  |  |
| F102              | FIRE PROTECTION ATTIC PLAN - NEW WORK           |  |  |  |
| <b>Nechanical</b> |   |  |  |  |
| M000              | MECHANICAL TITLE SHEET                          |  |  |  |
| PH001             | PHASING PLAN                                    |  |  |  |
| MD101             | MECHANICAL FLOOR PLAN - DEMOLITION              |  |  |  |
| MD102             | MECHANICAL - HVAC - RCP - DEMOLITION            |  |  |  |
| MD111             | MECHANICAL PIPING FLOOR PLAN - DEMOLITION       |  |  |  |
| M101              | MECHANICAL - HVAC - FLOOR PLAN - NEW WORK       |  |  |  |
| M102              | MECHANICAL - HVAC - ATTIC PLAN - NEW WORK       |  |  |  |
| M103              | MECHANICAL - HVAC - RCP - NEW WORK              |  |  |  |
| M111              | MECHANICAL PIPING FLOOR PLAN - NEW WORK         |  |  |  |
| M501              | MECHANICAL DETAILS                              |  |  |  |
| M601              | MECHANICAL SCHEDULES                            |  |  |  |
| M602              | MECHANICAL SCHEDULES                            |  |  |  |
| M701              | MECHANICAL CONTROL DIAGRAMS                     |  |  |  |
| Plumbing          |   |  |  |  |
| P101              | PLUMBING - FIRST FLOOR SANITARY PLAN - NEW WORK |  |  |  |
| Electrical        |   |  |  |  |
| E000              | ELECTRICAL SYMBOLS AND ABBREVIATIONS            |  |  |  |
| ED100             | ELECTRICAL-SITE DEMOLITION PLAN                 |  |  |  |
| ED101             | ELECTRICAL-DEMOLITION PLAN                      |  |  |  |
| E101              | ELECTRICAL-SITE NEW WORK PLAN                   |  |  |  |
| E201              | ELECTRICAL-LIGHTING NEW WORK PLAN               |  |  |  |
| E301              | ELECTRICAL-POWER NEW WORK PLAN                  |  |  |  |
| E501              | ELECTRICAL DETAILS                              |  |  |  |
| E801              | ELECTRICAL SCHEDULES                            |  |  |  |
| E802              | ELECTRICAL SCHEDULES                            |  |  |  |



# **DTCC OFFICE OF THE PRESIDENT RENOVATION & ADDITION**

100 Campus Drive Dover, DE 19904



NOR

BOT BRG BW CAB CAV CB CEM CER CLG CLO CH CLR CMU CNTR COL CONC CONN CONST CONT CONTR CORR CSWK CT CTSK DBL DEPT DET DF DIA DIM DISP DN DRAIN

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### **GRAPHIC SYMBOLS**

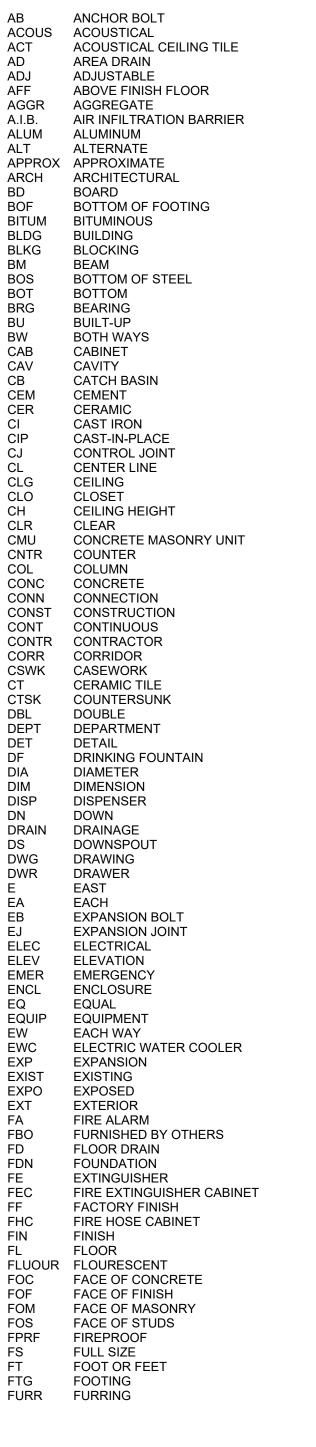
| NORTH ARROW                     |                |           |
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| DETAIL IDENTIFI<br>SHEET NUMBER |                | X<br>XX   |
| ELEVATION IDEN<br>SHEET NUMBER  |                | X<br>XX   |
| SECTION IDENTI                  |                | X<br>XX   |
| REFERENCE BUI                   | BBLE           |           |
| INTERIOR ELEV.<br>SHEET NUMBER  | IDENTIFICATION |           |
| ROOM NAME<br>ROOM NUMBER        |                | ROOM NAME |

| CEILING IDENTIFICATION   | XXX  |
|--------------------------|--|
| CEILING HEIGHT           | X-X  |
|                          |  |
| DOOR IDENTIFICATION      | (XXX)                                      |
| WINDOW TYPE              | $\langle \mathbf{X} \\ \mathbf{X} \rangle$ |
|                          | <u>.</u>                                   |
| PARTITION IDENTIFICATION |  |
| REVISION NUMBER          | x  |
|                          |  |
| TOILET ACCESSORY         | 8  |
| ELEVATION MARK           | 9'-0"                                      |
| CASEWORK REFERENCE TAG   | AAAA                                       |
|                          |  |
|                          |  |

| XXX  |
|--|
| X-X  |
|  |
| XXX  |
| $\langle \mathbf{X} \\ \mathbf{X} \rangle$ |
| X A-403                                    |
| X  |
| 8  |
| 9'-0"                                      |
| AAAA                                       |
|  |
|  |

| CONCRETE MASONRY UNIT |  |
|-----------------------|--|
| BRICK                 |  |
| CONCRETE              |  |
| DRAINAGE FILL         |  |
| EARTH                 |  |
| INSULATION - BATT     |  |
| INSULATION - RIGID    |  |
| WOOD - ROUGH          |  |
| WOOD - FINISH         |  |
| PLYWOOD               |  |
| STEEL                 |  |
| STONE                 |  |

### **ABBREVIATIONS**



FUTURE GAUGE GALVANIZED GRAB BAR GLASS GROUND GRADE GLAZED STRUCTURAL UNIT GYPSUM WALLBOARD GYPSUM GENERAL CONTRACTOR HEADER HEIGHT HOSE BIB HOOK BOTH ENDS HORIZONTAL BOTH FACES HOLLOW CORE HOOK DISCONTINOUS ENDS HARDWOOD HARDWARE HEIGHT HORIZONTAL INSIDE FACE HOLLOW METAL HORIZONTAL OUTSIDE FACE HORIZONTAL **HIGH POINT** HOUR **INSIDE DIAMETER (DIM.)** INCH INSULATION INTERIOR INVERT JANITOR JOINT JOIST LABORATORY LAVATORY LAMINATE LOCKER LONG LEG OUT LOW POINT LIGHT LIGHTING LONG WAY MASONRY MATERIAL MAXIMUM MECHANICAL MEDIUM MEMBRANE METAL MANUFACTURER MANHOLE MINIMUM MIRROR MISCELLANEOUS MASONRY OPENING MARBLE THRESHOLD MOUNTED MULLION NORTH NOT IN CONTRACT NIC NOT IN CO NO OR # NUMBER NOM NOMINAL NTS NOT TO SO OC ON CENTE OD OUTSIDE I OFF OFFICE OH OVERHEAI OPNG OPENING OPP OPPOSITE PCC PRECAST NOT TO SCALE ON CENTER OUTSIDE DIAMETER (DIM.) OFFICE OVERHEAD OPPOSITE PRECAST CONCRETE PLATE PLAM PLASTIC LAMINATE PLASTER PLYWD PLYWOOD PAIR POUNDS / SQ FOOT POUNDS / SQ INCH POINT PAIINTED PAVEMENT QUARRY TILE RISER RADIUS ROOF DRAIN REFERENCE REFLECTED REFRIGERATOR REGISTER REINFORCED REQUIRED RESILIENT RETURN REVISED

FUT GA GALV GB GL GND GR GSU GWB GYP GC

HH

HB

HBE HBF

HDE HDWD

HDWE HGT HIF

ΗM

HP HR

ID

IN

INSUL

INT INV JAN JT

JST

LAB LAV LAM LKR LLO LP

LT LTG

LW LAS MAT MAX MECH MED

MEMB

MTL MFR MH MIN

MIR

MISC

MTD MUL

Ν

NIC

PL

PLAS

PR

PSF

PSI PT

PTD

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REG

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RES RET

REV RM RO

ROOM

ROUGH OPENING

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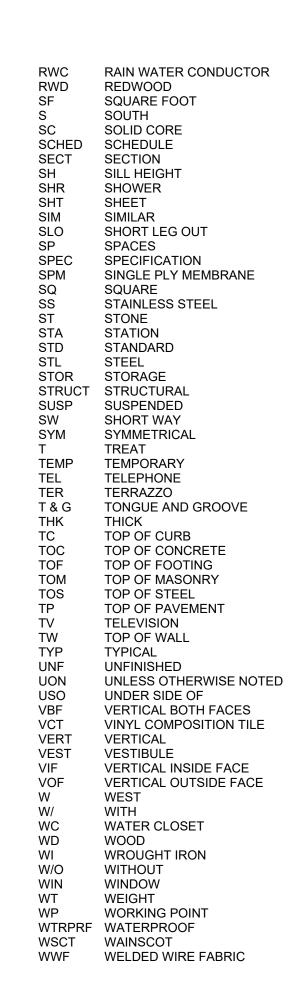
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### KEYPLAN DELAWARE TECHNICAL COMMUNITY COLLEGE OWNER DTCC PO BOX 897 DOVER, DE 19903 OWNER DTCC PO BOX 897 **DOVER, DE 19903** p:302.7393737 Fax ARCHITECT BSA+A 954 JUSTISON ST WILIMINGTON, DE 19801 p:302.6589300 f:302.658.1125 STRUCTURAL BAKER INGRAM & ASSOC 1050 S. STATE ST. DOVER, DE 19901 p:302.734.7400 f:302.734.7592 MEP DEDC 315 S CHAPEL ST. NEWARK, DE 19711 p:302.738.7172 f:302.738.7175 CIVIL LANDMARK SCIENCE & ENGINEERING 200 CONTINENTAL DR. STE. 400 NEWARK, DE 19713 p:302.323.9377 f:302.323.9461 **B S A** + **A Buck Simpers Architect** + Associates, Inc.

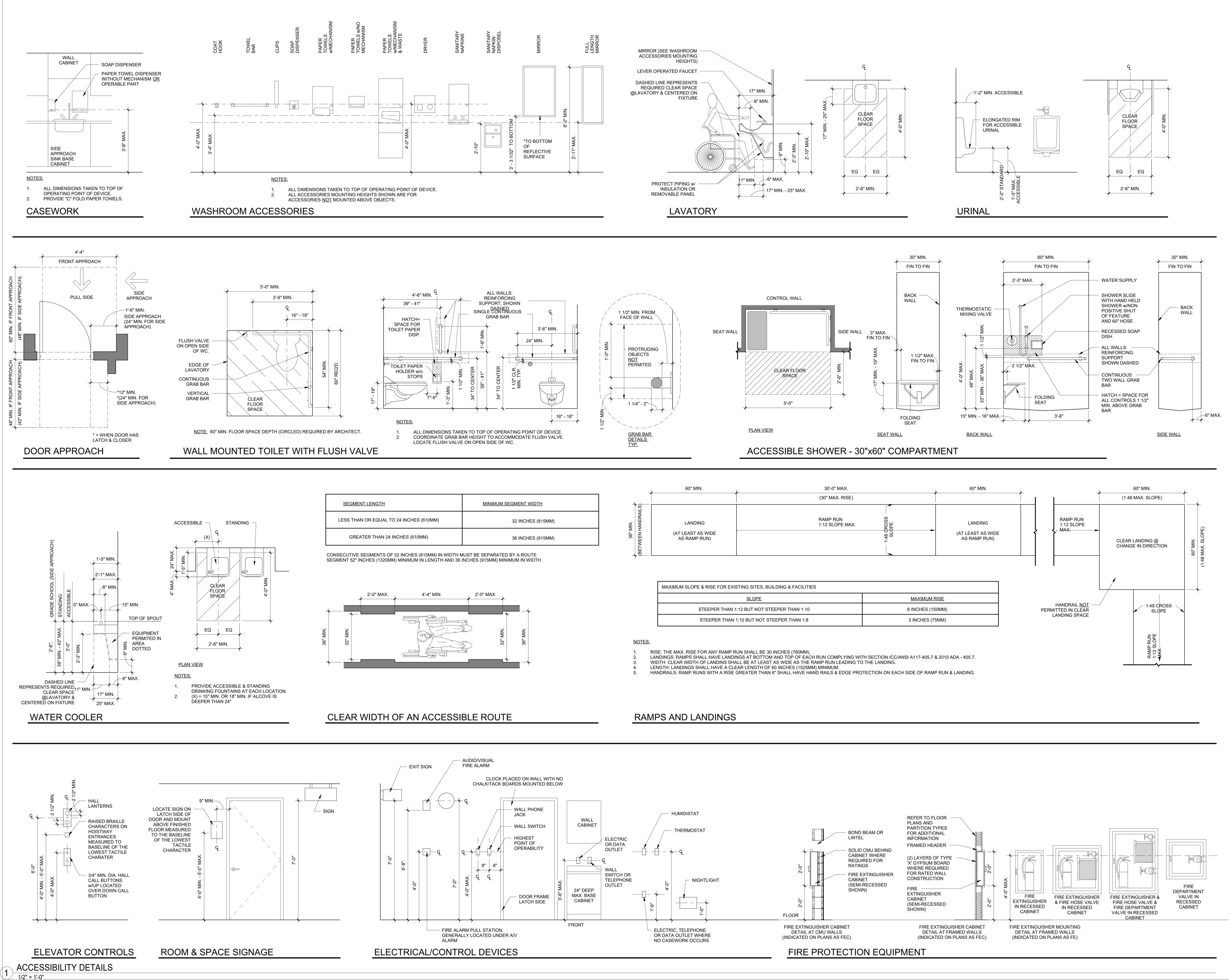
JOB NO. 23.003 DTCC OFFICE OF THE PRESIDENT **RENOVATION & ADDITION** 100 Campus Drive Dover, DE 19904 COVER SHEET COPYRIGHT, ALL RIGHTS RESERVED © 2025 001

954 Justison St.

302 658-9300

Fax 658-1125

Wilmington, DE 19801



|                        | MINIMUM SEGMENT WIDTH |
|------------------------|-----------------------|
| L TO 24 INCHES (610MM) | 32 INCHES (815MM)     |
| 24 INCHES (610MM)      | 36 INCHES (915MM)     |
|                        |                       |

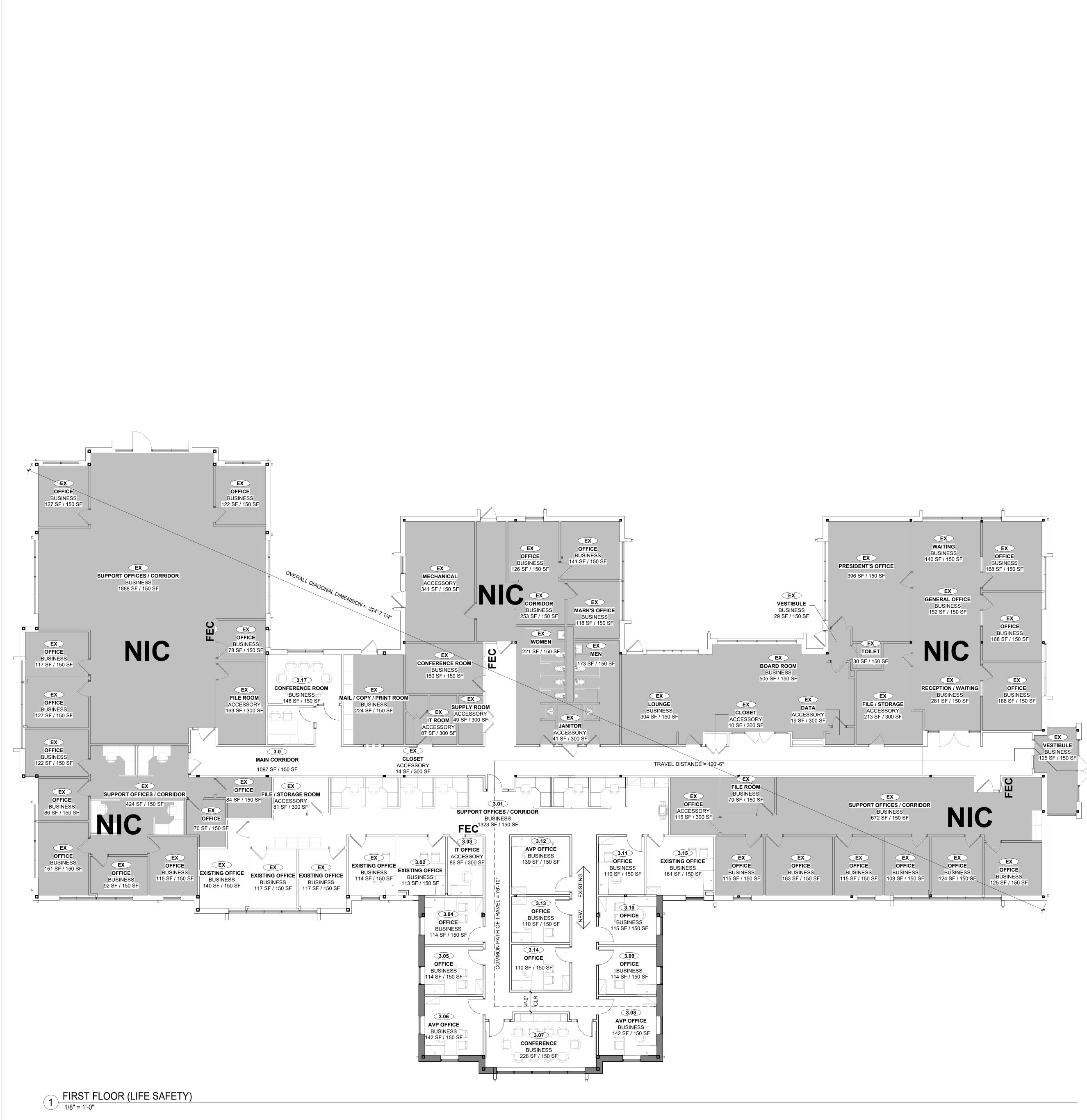
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**RENOVATION & ADDITION** 

ACCESSIBILITY DETAILS





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|             | LIFE SAFETY DRA             | AWING LEGEND  |
|-------------|-----------------------------|---|
|             | 3 HR FIRE RATED PARTITION   |   |
|             | 2 HR FIRE RATED PARTITION   |   |
|             | 1 HR FIRE RATED PARTITION   |   |
|             | 1/2 HR FIRE RATED PARTITION |   |
|             | SMOKE PARTITION             |   |
|             | TRAVEL DISTANCE             | • • •   |
|             | COMMON PATH OF TRAVEL       | 0   |
|             | REFUGE                      | AREA OF REFUGE LOCATION   |
|             | FEC -                       | FIRE EXTINGUISHER CABINET   |
|             | Room name 🛥                 | ROOM NAME   |
|             |                             | CALCULATED OCCUPANTS COMPONENT  |
|             | 150 SF                      | SPACE SQUARE FOOTAGE  |
|             | OCC CLASSIFICATION          | OCCUPANCY CLASSIFICATION  |
|             |                             | OCCUPANT LOAD / PERSON  |
|             | ACT                         | OCCUPANT LOAD ON<br>EGRESS COMPONENT<br>MAXIMUM CAPACITY OF<br>EGRESS COMPONENT |
| ode Summarv |                             |   |

### Code Summary

| General Information  |   |  |  |
|--|---|--|--|
| Project Description  | First floor, single suite renovation, including finishes, with 1,742 SF addition  |  |  |
| Tax Parcel ID #  | 02-05-05700-0100-00001  |  |  |
| Zoning   | Institutional/Office  |  |  |
| Risk Category  | II  |  |  |
| Notes:   | Renovation does NOT Require change in use group, occupancy, construction classification, fixture count, or egress requirements. |  |  |
|  | classification, include count, or egress requirements.  |  |  |
| Applicable Codes   | classification, indure count, or egress requirements.   |  |  |
| Applicable Codes Building Code   | IBC 2009  |  |  |
| ••   |   |  |  |
| Building Code  | IBC 2009  |  |  |
| Building Code<br>Existing Building Code  | IBC 2009<br>IEBC 2009   |  |  |
| Building Code<br>Existing Building Code<br>Energy Conservation Code                    | IBC 2009<br>IEBC 2009<br>IECC 2018 w/ Amendments  |  |  |
| Building Code<br>Existing Building Code<br>Energy Conservation Code<br>Mechanical Code | IBC 2009<br>IEBC 2009<br>IECC 2018 w/ Amendments<br>IMC 2009 w/ Amendments  |  |  |

| File Code                                    |                     | NFFA IUI 2021, DSFF         | 'n                            |
|--|---------------------|-----------------------------|-------------------------------|
| Accessibilty                                 |                     | 2009 ANSI A117.1 - ADA St   | andards                       |
| Building Data                                | Reference           | Provided                    | Allowable or Required         |
|  | IBC 304             | B - Business                | - ·                           |
| Occupancy Classification:                    | NFPA Chap. 6        |                             | -                             |
|  | IBC Chap 6          | Type II B                   | -                             |
| Construction Type:                           | NFPA 101            |                             | -                             |
| Renovation Level                             | IEBC Chap 6         | Level 2 - 13% Area Increase | -                             |
| Percentage of Building Sprinklered           |                     | 100%                        | -                             |
| Max Stories                                  | IBC T.504.4         | UNCHANGED                   | 4 Stories above Grade         |
| Max Height                                   | IBC T.504.3         | UNCHANGED                   | 70'                           |
| Max Floor Area                               | IBC T.506.2         | 15,932 SF                   | 54,000 SF                     |
| Max Building Area                            | IBC Chapter 5       | 15,932 SF                   | 216,000 SF                    |
| Fire Resistance Ratings                      | Reference           | Provided                    | Allowable or Required         |
| Structural Frame (Columns, Girders, Trusses) |                     |                             | 0 Hr                          |
| Exterior Non-Bearing Walls < 30'             |                     | -                           | 0 Hr                          |
| Exterior Non-Bearing Walls > 30'             |                     | -                           | 0 Hrs                         |
| Interior Non-Bearing Walls and Partitions    | IBC T.602           | 0 Hrs                       | 0 Hrs                         |
| Bearing Walls (Interior and Exterior)        |                     |                             | 0 Hr                          |
| Floor Construction (+ Beams & Joists)        |                     |                             | 0 Hr                          |
| Roof Construction (+ Beams & Joists)         |                     |                             | 0 Hr                          |
| Corridor Fire Resistance Rating              | IBC T1020.1         | 0 Hrs                       | 0 Hrs                         |
| Fire Doors                                   |                     | 3/4 Hrs                     | 3/4 Hrs                       |
| Fire Windows                                 | IBC 1.7 10.1        | -                           | 3/4 Hrs                       |
| Means of Egress                              | Reference           | Provided                    | Allowable or Required         |
| Egress Width - Stairs                        | IBC 1005.3.1        | -                           | 0.3" per Occupant MIN         |
| Egress Width - Other                         | 1005.3.2 / NFPA 101 | MIN                         | 0.2" per Occupant MIN         |
| Corridor Width                               | IBC T.1020.2        | 69"                         | 44" MIN                       |
|  | IBC T.1017.2        | 120'-6"                     | 300' MAX (w/ Sprinkler System |
| Exit Access Travel Distance                  | NFPA 101 (39.2.6.3) |                             | 300' MAX (w/ Sprinkler System |
| Common Dath of Essage Travel                 | IBC T.1006.2.1      | 76'-10"                     | 100' MAX (w/ Sprinkler System |
| Common Path of Egress Travel                 | NFPA 101            |                             | 100' MAX (w/ Sprinkler System |
| Dead End Corridor                            | IBC T.1020.2        | 44'-3"                      | 50' MAX (w/ Sprinkler System) |
|  | NFPA 101 (39.2.5.2) |                             | 50' MAX (w/ Sprinkler System) |
|  |                     |                             |                               |

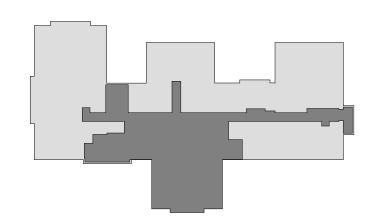
| Occupant Load              |         |           |                |  |  |  |
|----------------------------|---------|-----------|----------------|--|--|--|
| Occupancy                  | OLF     | Area      | # of Occupants |  |  |  |
| B - Business (IBC T1004.5) | 150 GSF | 14.717 SF | 98 Occupants   |  |  |  |
| Business (NFPA 7.3.1.2)    | 150 GSF | ,         | 98 Occupants   |  |  |  |
| Accessory (IBC T1004.5)    | 300 GSF | 1,215 SF  | 4 Occupants    |  |  |  |
| Total                      |         |           | 102 Occupants  |  |  |  |

Plumbing Fixtures (IPC 2018 T.403.1)

| Dhasa    |                | Water Closets     |         | Lavatories |       | Unisex | Bathtubs / | Drinking | 046             |
|----------|----------------|-------------------|---------|------------|-------|--------|------------|----------|-----------------|
| Phase    | Classification | M F M F Restrooms | Showers | Fountain   | Other |        |            |          |                 |
| Existing | 2 - Business   | 4                 | 4       | 3          | 3     | 1      | x          | 2        | 1 Service Sink  |
| Required | Z - Dusiness   | 3                 | 3       | 2          | 2     | -      |            | 2        | I Service Sirik |

NOTE: EXISTING PLUMBING FIXTURES MEET CODE

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### KEYPLAN

| DELA      | WARE      |
|-----------|-----------|
| TECHNICAL | COMMUNITY |
| COLĬ      | LEGE      |

OWNER: DTCC PO BOX 897 DOVER, DE 19903

ARCHITECT BSA+A 954 JUSTISON ST. WILIMINGTON, DE 19801 p:302.6589300 f:302.658.1125

STRUCTURAL BAKER INGRAM & ASSOC. 1050 S. STATE ST. DOVER, DE 19901 p:302.734.7400 f:302.734.7592

> MEP DEDC 315 S CHAPEL ST. NEWARK, DE 19711 p:302.738.7172 f:302.738.7175

CIVIL LANDMARK SCIENCE & ENGINEERING 200 CONTINENTAL DR. STE. 400 NEWARK, DE 19713 p:302.323.9377 f:302.323.9461

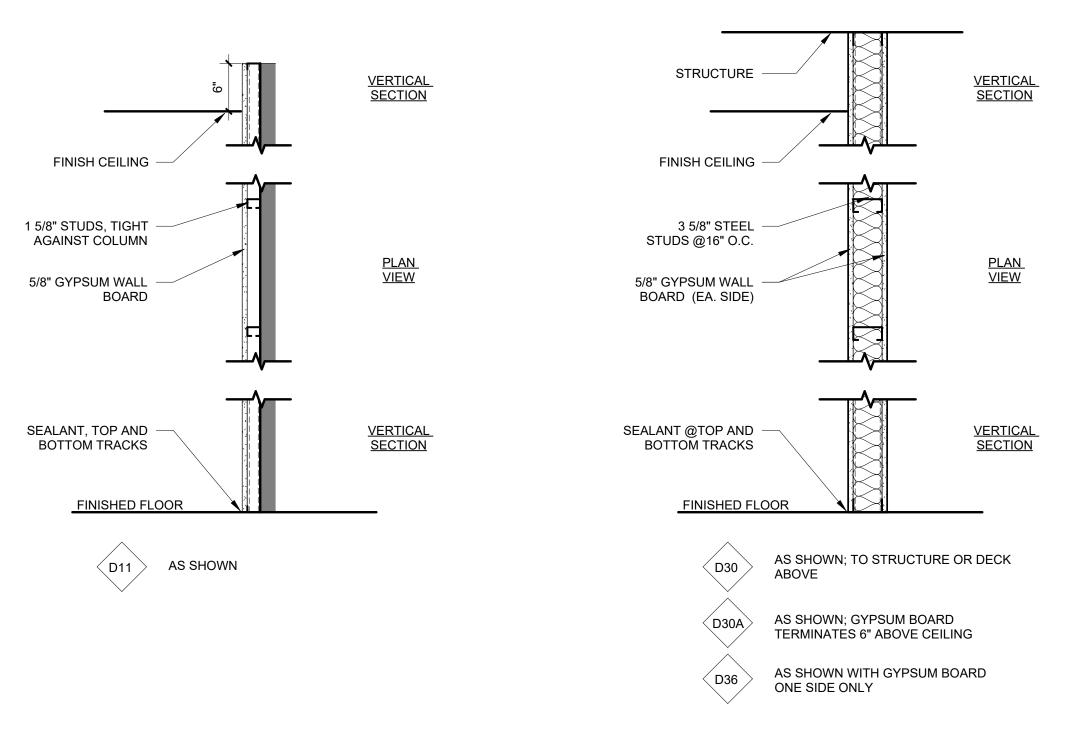
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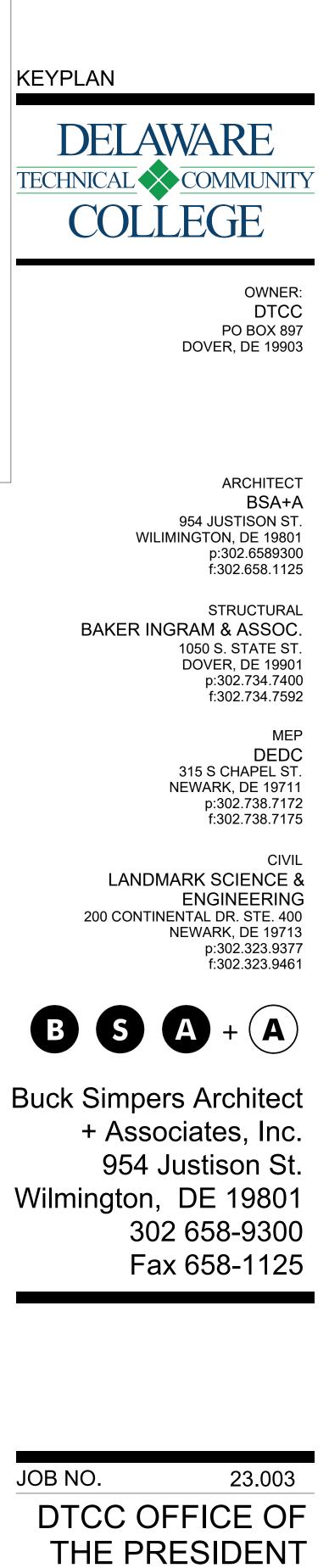
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### PARTITION GENERAL NOTES

- ALL DIMENSIONS ARE TO FACE OF STUD OR CMU UNLESS NOTED OTHERWISE.
- 2. STEEL STUDS ARE TO BE 20 GA. MINIMUM AT STEEL STUD PARTITIONS, PROVIDE 16 GA. DOUBLE STEEL STUDS AT ALL DOOR OR BORROWED LITE JAMBS. STUDS ARE TO EXTEND FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE AND SHALL BE ANCHORED AT EACH END.
- 3. UNLESS NOTED OTHERWISE ALL PARTITIONS SHALL EXTEND TO THE UNDERSIDE OF STRUCTURE FOR STEEL STUD FRAMING. PROVIDE SLIP JOINT AS RECOMMENDED BY MANUFACTURER.
- 4. UNLESS NOTED OTHERWISE ALL GYPSUM BOARD SHALL BE 5/8". PROVIDE TYPE 'X' GYPSUM BOARD AT ALL RATED PARTITIONS.
- 5. REFER TO WALL SECTIONS AND DETAILS FOR TYPICAL EXTERIOR WALLS.
- 5. STUD SPACING SHALL NOT EXCEED 16" O.C. UNLESS NOTED OTHERWISE.
- 7. AT NEW DRYWALL PARTITIONS, PROVIDE WATER RESISTANT GYPSUM BOARD WHERE INDICATED AND AT THE FOLLOWING PARTITION LOCATIONS; TOILET ROOMS, U.N.O., CUSTODIAL CLOSETS, ALL PARTITIONS WITHIN
- 5'-0" OF;PLUMBING FIXTURES OR CASEWORK WITH PLUMBING FIXTURES. PROVIDE WATER RESISTANT GYPSUM TILE BACKER PANELS (ABLE TO BE TAPED) WHERE INDICATED AND AT THE FOLLOWING LOCATIONS; PARTITIONS RECEIVING PARTIAL OR TOTAL CERAMIC TILE FINISH, AT WATER
- 9. PROVIDE IMPACT-RESISTANT GYPSUM BOARD WHERE INDICATED AND AT THE FOLLOWING LOCATIONS; CUSTODIAL ROOMS AND NEW WATER COOLER ALCOVES.
- 10. ALL NEW DRYWALL PARTITIONS , PROVIDE CEMENTITIOUS BACKER BOARD WHERE NOTED AND AT THE
- FOLLOWING LOCATIONS; SHOWER STALLS.
  11. PROVIDE GYPSUM BOARD LEVEL IV (4) FINISH (TYPICAL) U.N.O. PROVIDE GYPSUM LEVEL IV (4) FINISH (TYPICAL) AT ALL EXISTING PARTITIONS. PROVIDE SKIM COAT AND/OR GYPSUM BOARD VENEER AS REQUIRED.
- 12. WOOD BLOCKING IS TO BE FIRE TREATED TYPICAL.
- 13. SIM ALL FURRED DRYWALL PARTITIONS AS REQUIRED TO MAINTAIN FINISH SURFACE PLUMB, TRUE AND STRAIGHT. COORDINATE WITH DOOR FRAMES AS REQUIRED.
- 14. ALL PENETRATIONS, OUTLETS, AND PERIMETER OF DRYWALL PARTITIONS SHALL BE SEALED WITH ACOUSTICAL SEALANT UNLESS FIRE RATING REQUIRED.
- 15. TYPICAL, ALL STUD PARTITION TYPES; PROVIDE CONTINUOUS 2x8 TREATED WOOD BLOCKING REINFORCING SUPPORT FOR ALL WALL HUNG ITEMS INCLUDING BUT NOT LIMITED TO; HANDRAILS, GRAB BARS, MILLWORK, USE 1x8 TREATED WOOD BLOCKING AT METAL FURRING LOCATIONS TREATED WOOD BLOCKING IS CONTACTING METAL STUDS OR COLD FORMED METAL FRAMING, INSTALL A BARRIER OF 15 LB. ASPHALT FELT.
- 16. PROVIDE WALL TYPE TYPICAL FOR CONSTRUCTION OF PARTITIONS AT LOCATIONS WITH RECESSED ITEMS INCLUDING BUT NOT LIMITED TO; CASEWORK, HAND DRYERS, FIRE CABINETS, WATER COOLERS, ABOVE AND BELOW RECESSED OBJECTS - REFER TO LINTEL SCHEDULE.
- 17. PROVIDE APPROPRIATE PATCHING AT PARTITION PENETRATIONS TO MATCH WALL RATING. PENETRATIONS NOT LIMITED TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, GEOTHERMAL PIPING. REFER TO LIFE SAFETY PLANS FOR RATINGS. SEE SECTIONS AND DETAILS.
- 18. AT EXISTING WALLS TO REMAIN, APPLY GYPSUM BOARD VENEER OR METAL FURRING WITH GYPSUM BOARD SHEATHING AS REQUIRED TO ALIGN EACH SIDE OF PARTITION WITH ADJACENT NEW PARTITION. PROVIDE FINISH CONSISTENT WITH LEVEL IV (4) FINISH (TYPICAL).
- 19. ALL STUD CAVITIES SHALL RECEIVE FOIL M-FACED FIBERGLASS INSULATION.
- 20. ALL NEW AND EXISTING SHEATHING SHALL RECEIVE AIR INFILTRATION BARRIER PRIOR TO RECEIVING EXTERIOR FINISHES.
- 21. WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL:
- A. BE LOCATED WITHIN 15 FEET (4572 MM) OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION.
- B. INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8-INCH (9.5 MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER—PROTECT ALL OPENINGS," OR OTHER WORDING.



| No. | Description    | Date       |
|-----|----------------|------------|
| 1   | ISSUED FOR BID | 05/08/2025 |
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|           | <u>PLAN DATA</u>  |                          |
|-----------|---|--------------------------|
| 1.        | TAX PARCEL NUMBER: 02-05-05700-0100-00001   | 17.                      |
|           | SOURCE OF TITLE: DEED RECORD BOOK G27 PAGE 185  | 4.0                      |
| 3.        | EXISTING ZONING: 10 (INSTITUTIONAL/OFFICE)  | 18.<br>19.               |
|           | BULK AREA RESTRICTIONSEXISTINGMIN. STREET YARD SETBACK:40'  | 20.                      |
|           | MIN. SIDE YARD:15'MIN. REAR YARD:40'MIN. LOT AREA:1 ACRE  | 21.                      |
|           | MAX BUILDING HEIGHT: 50'/140'<br>MIN. PARKING SETBACK (STREET/OTHER): 40'/10'   | 21.                      |
| 1.        | GROSS AREA: 93.70± ACRES  |                          |
| 5.        | TOPOGRAPHIC SURVEY:   | 23.                      |
|           | A. FIELD SURVEY BY LANDMARK SCIENCE & ENGINEERING 6/1/23  | 24.                      |
|           | <ul> <li>B. VERTICAL DATUM: NGVD 29</li> <li>BENCHMARK: EXISTING FIRE HYDRANT LOCATED BY THE SIDEWALK AT NORTH<br/>WEST CORNER OF TERRY BUILDING<br/>ELEVATION: 40.96</li> </ul>  | 25.                      |
|           | <ul> <li>ELEVATION: 40.96</li> <li>C. PERIMETER PROPERTY CORNER MARKERS:</li> <li>■ EXISTING</li> </ul>   | 26.                      |
|           | $O \square PROPOSED$ (0)  |                          |
| 5.        | WATER SUPPLY: CITY OF DOVER<br>WATER SUPPLY IS SUBJECT TO THE APPROVAL OF THE DELAWARE STATE<br>DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL AND   |                          |
| 7         | THE DELAWARE DEPARTMENT OF PUBLIC HEALTH.<br>SANITARY SEWER: (GRAVITY) CITY OF DOVER  |                          |
|           | SEWERAGE IS SUBJECT TO THE APPROVAL OF THE CITY OF DOVER AND<br>DNREC. AT THE TIME OF APPROVAL OF THIS PLAN, SEWER CAPACITY<br>EXISTED TO ACCOMMODATE THE ANTICIPATED FLOWS GENERATED BY THIS<br>ADDITIONAL DEVELOPMENT. THE CITY OF DOVER HAS COMMITED TO PROVIDE<br>SEWER IN ACCORDANCE WITH THE LAND DEVELOPMENT IMPROVEMENT<br>AGREEMENT FOR THIS DEVELOPMENT. THE OWNER OF THIS PROPERTY, HIS<br>SUCCESSOR OR ASSIGNS, SHALL BE RESPONSIBLE FOR EXTENDING SEWER<br>SERVICE TO EACH BUILDING SHOWN ON OR CREATED BY THIS PLAN.  |                          |
|           | ESTIMATED SEWAGE FLOW GENERATION FOR THIS PROJECT, PER 10-STATES<br>STANDARDS BASED ON 18,540 S.F. AT 0.09 GPD PER S.F. IS 1,669 GPD.   |                          |
|           | DEBRIS DISPOSAL: NO DEBRIS SHALL BE BURIED ON SITE  |                          |
| 10.       | POSTAL ADDRESS: 100 CAMPUS DRIVE<br>DOVER, DE 19904   |                          |
| 11.       | PARKING RATIONALE:GROSS FLOOR AREA251,868 S.F.PARKING SPACES REQUIRED840PARKING SPACES PROVIDED1,262  |                          |
| 12.       | THE TOTAL LAND DISTURBANCE PROPOSED BY THIS PLAN IS 5,700 S.F.  |                          |
|           | GENERAL CONSTRUCTION NOTES  |                          |
|           | ALL WORK AND MATERIALS WILL BE IN ACCORDANCE WITH THE CITY OF DOVER<br>STANDARD SPECIFICATIONS AND DETAILS, THE DELAWARE DEPARTMENT OF<br>TRANSPORTATION (DELDOT) STANDARD SPECIFICATIONS, DATED AUGUST 2001, A<br>THE DELDOT STANDARD DETAILS, LATEST REVISION, OR AS MODIFIED BY THESE  | ND/C                     |
| 2.        | ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE  |                          |
| 3.        | THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK (2023).<br>MATCH PROPOSED PAVING AND CURBING ELEVATIONS TO EXISTING PAVING AND   |                          |
| J.        | CURBING ELEVATIONS WHEREVER THEY ADJOIN.<br>SAW CUT AT THE JUNCTION FOR ALL EXISTING PAVEMENT AND FOR ALL PAVEM<br>REMOVAL.   | IENT                     |
| 5.        | PLAN LOCATIONS AND DIMENSIONS SHALL BE STRICTLY ADHERED TO, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.  |                          |
| 5.        | ALL RADII AND DIMENSIONS ARE MEASURED TO THE FACE OF CURB, UNLESS   |                          |
| 7.        | OTHERWISE NOTED.<br>THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-282-8555 A MINIMU   |                          |
| · •       | 72 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.   |                          |
| 3.        | LANDMARK ENGINEERING, INC. MAKES NO GUARANTEE AS TO THE EXISTENCE O<br>NON-EXISTENCE, LOCATION, DEPTH, SIZE OR CONDITION OF ANY UNDERGROUN<br>UTILITIES SHOWN ON THIS PLAN NOT ACCESSIBLE FROM THE SURFACE OF THE<br>GROUND. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH INFORMATION<br>PROVIDED BY THE RESPECTIVE UTILITY COMPANIES AT THE TIME THE PLAN WAS<br>PREPARED. THE CONTRACTOR IS TO COORDINATE ALL WORK WITH UTILITY COMP<br>INVOLVED.  | D<br>PANIES              |
|           | IT IS THE RESPONSIBILITY OF THE OWNER, OR HIS CONTRACTOR, TO VERIFY AT<br>ALLOW FOR THE LOCATION AND DEPTH OF THE UNDERGROUND UTILITIES WITHIN<br>WORK AREA SHOWN ON THIS PLAN. THE CONTRACTOR SHALL NOT BEGIN ANY<br>EXCAVATION OR OTHER CONSTRUCTION AROUND OR IMMEDIATELY ADJACENT TO<br>EXISTING UTILITIES WITHOUT NOTIFYING THE UTILITY OWNER(S) AT LEAST SEVEN<br>(72) HOURS IN ADVANCE OF THE START OF EXCAVATION OR CONSTRUCTION. T<br>PITS FOR UTILITY LOCATIONS MAY OR MAY NOT BE REQUIRED.   | n the<br>ty—tv           |
|           | PRIOR TO ANY CONSTRUCTION, IT IS RECOMMENDED THE CONTRACTOR EXCAVAT<br>THE AREA OF ANY POTENTIAL UTILITY CROSSING TO VERIFY THAT THE UTILITY NOT<br>INTERFERE WITH CONSTRUCTION. IF, AFTER UNCOVERING THE UTILITY, THI<br>ANY QUESTION CONCERNING A POSSIBLE CONFLICT, THE CONTRACTOR SHALL<br>IMMEDIATELY CONTACT THE ENGINEER. THE CONTRACTOR SHALL TAKE ALL NECE<br>PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES AND MAINTAIN UNINTERRUPTE<br>SERVICE. ANY DAMAGE DONE TO THEM DUE TO HIS NEGLIGENCE SHALL BE<br>IMMEDIATELY AND COMPETENTLY REPAIRED AT HIS EXPENSE. | WILL<br>ERE I<br>ISSAR   |
| 9.<br>10. | EXISTING AERIAL UTILITIES ARE NOT SHOWN.<br>ALL NECESSARY PERMITS, LICENSES, BONDS, INSURANCE POLICIES, ETC. REQUI<br>LOCAL STATE AND/OR FEDERAL LAWS SHALL BE PROVIDED BY THE CONTRACTO<br>HIS OWN EXPENSE.  |                          |
| 1.        |   |                          |
|           | A. ALL CORRUGATED PLASTIC DRAINAGE PIPE SHALL BE HIGH DENSITY CORR<br>POLYETHYLENE HAVING A MANNING'S (N) VALUE OF 0.012 (HDPE, N-12)<br>MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. OR APPROVED EG<br>UNLESS OTHERWISE NOTED. ALL CORRUGATED PLASTIC PIPE SHALL MEET<br>LOADING SPECIFICATIONS. ALL PIPE LENGTHS INCLUDE FLARED END SECTION<br>(FES) WHEN APPLICABLE.  | AS<br>UAL,<br>H—20<br>DN |
|           | B. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III, UNLESS OTHERWIS NOTED.  | L                        |
| 2.        | PIPE BEDDING USED FOR THE INSTALLATION OF SANITARY SEWER SHALL MEET<br>REQUIREMENTS INCLUDED IN THE NEW CASTLE COUNTY STANDARD SPECIFICATIO<br>FOR CONSTRUCTION AND AMENDMENTS. OTHERWISE, ALL OTHER PIPE BEDDING<br>MEET THE REQUIREMENTS OF CLASS "C".  | NS                       |
| 3.        |   |                          |
| 4.        |   | THE                      |
|           |   | DECIN                    |
| 5.        | PAINT. LATERAL STRIPING/ SHAPES SHALL BE ALKYD THERMOPLASTIC TAPE/SYM   |                          |
| 5.        | PAINT. LATERAL STRIPING/ SHAPES SHALL BE ALKYD THERMOPLASTIC TAPE/SYN   | ИВОL.<br>BE              |

### GENERAL CONSTRUCTION NOTES (CONT'D)

- 17. ALL PROPOSED UNDERGROUND UTILITIES SHALL BE MARKED WITH 6-INCH WIDE (MIN.) METALLIC MARKING TAPE OF APPROPRIATE COLOR AND MESSAGE TO CONFORM TO UTILITY BURIED BENEATH IT AND SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- 18. ALL UTILITY EXCAVATION SHALL BE KEPT DRY AT ALL TIMES.
- 19. 4" PVC PIPE SLEEVES TO BE PROVIDED FOR ALL SIGNS IN SIDEWALK AREAS.
- 20. ALL AREAS NOT COVERED BY PAVING OR BUILDING SHALL RECEIVE 6" MINIMUM OF TOPSOIL, SEED, AND MULCH AS SOON AS FINAL GRADING IS COMPLETE.
- 21. NO DEBRIS SHALL BE BURIED ON SITE.
- 22. DISPOSITION OF ANY EXCESS EXCAVATION AND TOPSOIL TO BE AT THE DISCRETION OF THE OWNER. 23. PROVIDE EROSION CONTROL MATTING ON ALL SLOPES 3:1 OR STEEPER. (AND IN ALL OPEN CHANNELS.)
- 24. CONCRETE SIDEWALKS SHALL BE 3,000 PSI PORTLAND CEMENT CONCRETE, 4" THICK, ON 4"
- GRADED AGGREGATE BASE COURSE, UNLESS OTHERWISE NOTED. 25. MINIMUM COMPACTION AS DEFINED BY STANDARD PROCTOR MAXIMUM DRY
- DENSITY ASTM-D69 SHALL BE: BUILDING SUBGRADE: 95 PERCENT PAVEMENT SUBGRADE: 95 PERCENT SIDEWALK AND LAWN SUBGRADE: 90 PERCENT
- 26. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND STABILIZE EROSION AND SEDIMENT CONTROLS AND STORMWATER MANAGEMENT PRACTICES DURING CONSTRUCTION, INCLUDING AREAS DISTURBED BY UTILITY COMPANIES.



### CERTIFICATION OF PLAN ACCURACY

I, CRAIG M. LYNCH, P.E., HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER WITH A BACKGROUND IN CIVIL ENGINEERING IN THE STATE OF DELAWARE AND THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, REPRESENTS GOOD ENGINEERING PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

# APPLICATION NO. XXXX-XXXX INDEX PLAN FOR DTCC TERRY CAMPUS

EAST DOVER HUNDRED - KENT COUNTY DELAWARE



PLAN VIEW SCALE 1" = 200'

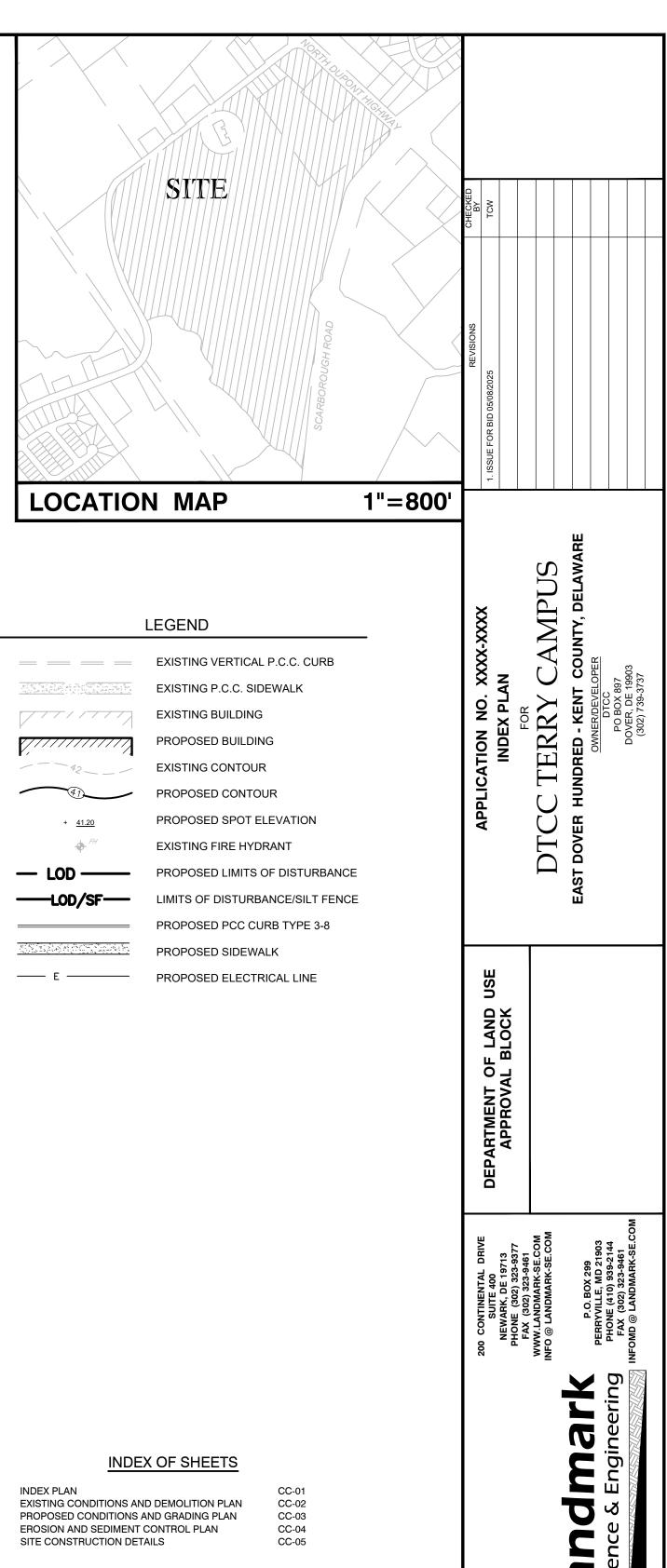
### **CERTIFICATION OF OWNERSHIP** TP# 02-05-05700-0100-0000

I, MARK DEVORE OF THE DELAWARE TECHNICAL & COMMUNITY COLLEGE , HEREBY CERTIFY THAT I AM THE OWNER'S RIGHTFUL REPRESENTATIVE OF THE PROPERTY DESCRIBED AND SHOWN ON THIS PLAN, THAT THE PLAN WAS MADE AT THE OWNER'S DIRECTION, AND THAT THEY ACKNOWLEDGE THE SAME TO THEIR BY ACT AND DESIRE THE PLAN TO BE DEVELOPED AS SHOWN AND IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.

MARK DEVORE DELAWARE TECHNICAL & COMMUNITY COLLEGE PO BOX 897 DOVER, DE 19903 P: (302) 739-3737



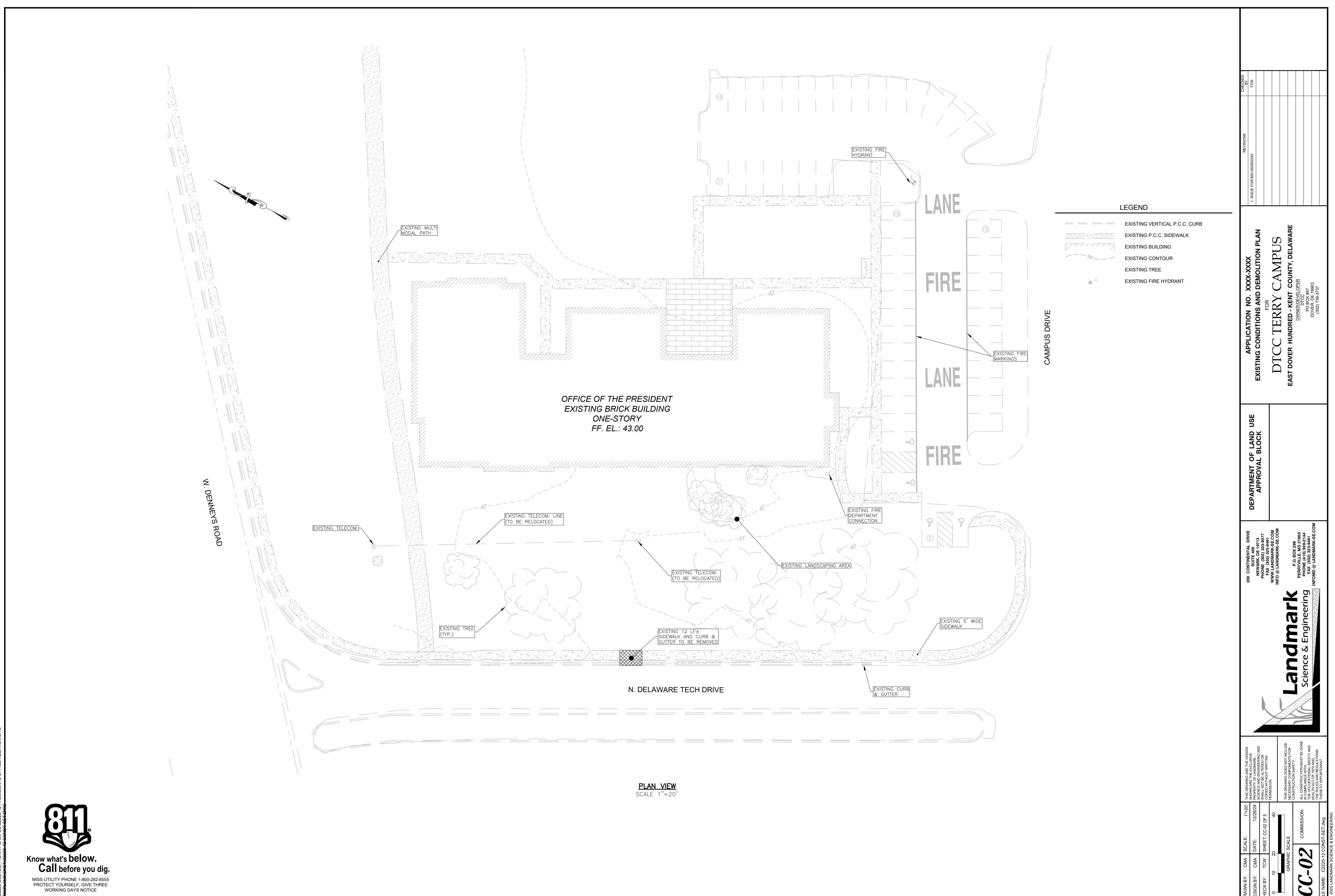


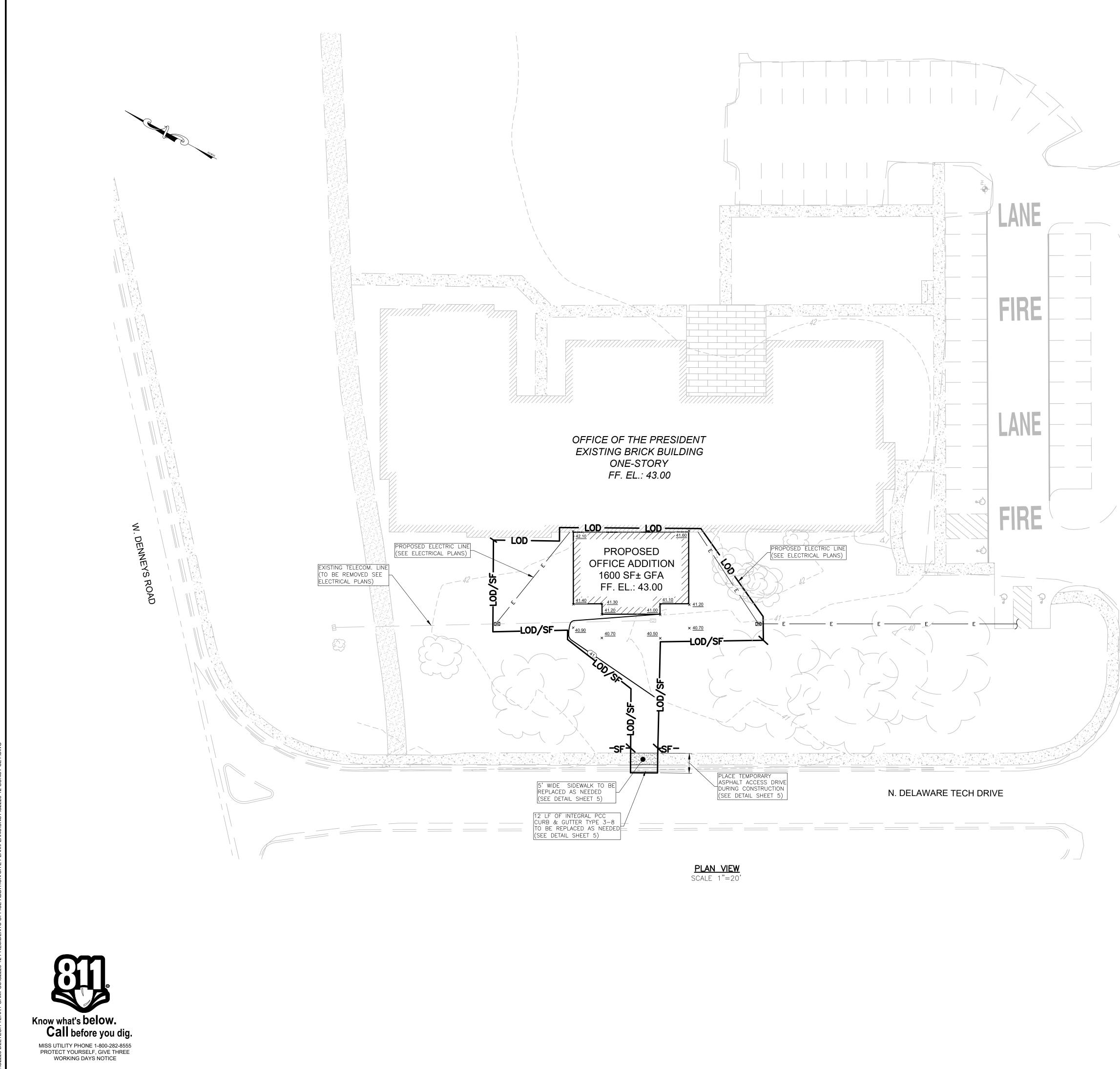


### THE PURPOSE OF THIS PLAN IS TO BUILD A 1,600 SF. ADDITION TO THE PRESIDENT'S OFFICE WITH **ASSOCIATED IMPROVEMENTS**



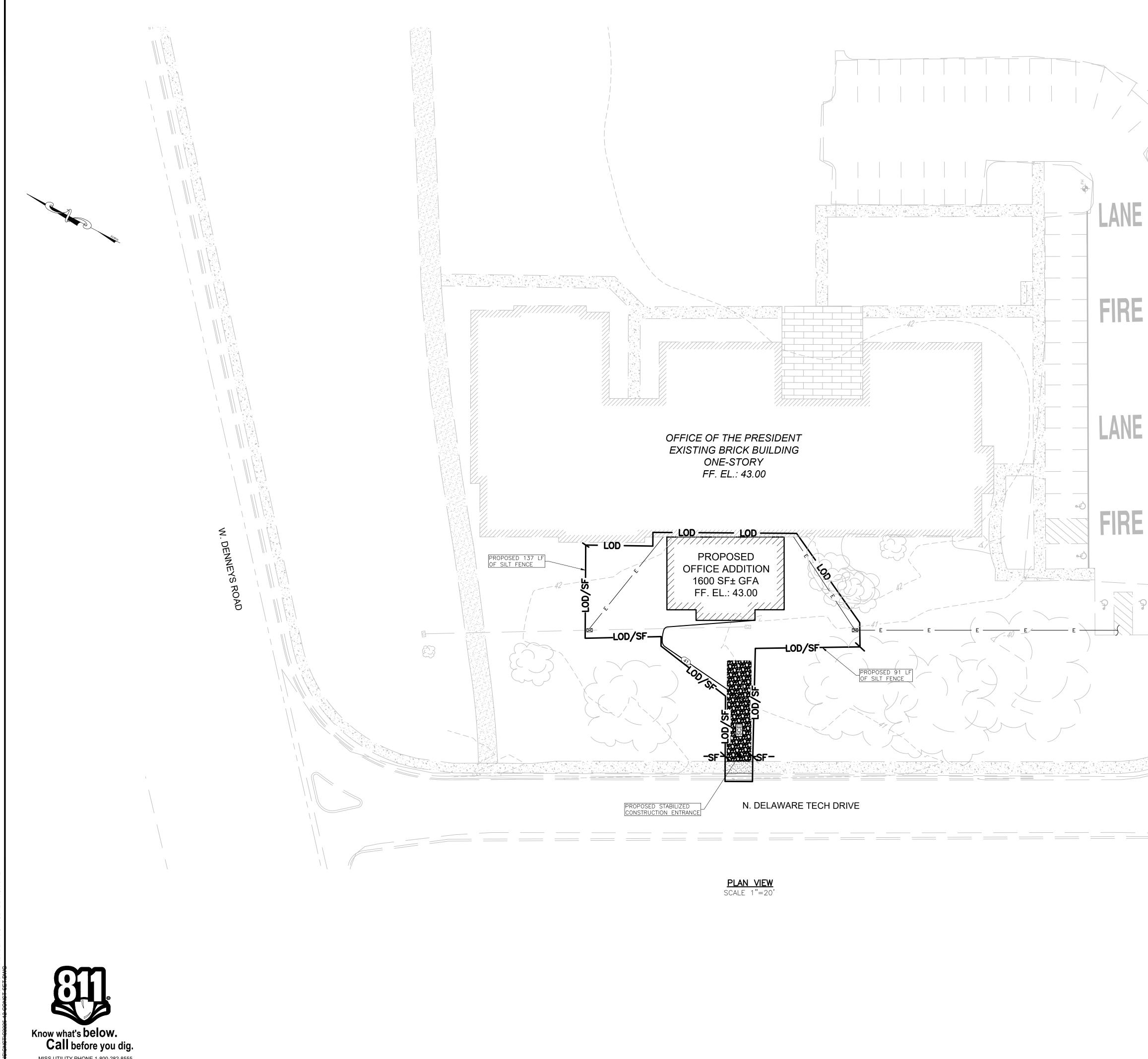
Know what's **below. Call** before you dig. MISS UTILITY PHONE 1-800-282-8555 PROTECT YOURSELF, GIVE THREE WORKING DAYS NOTICE





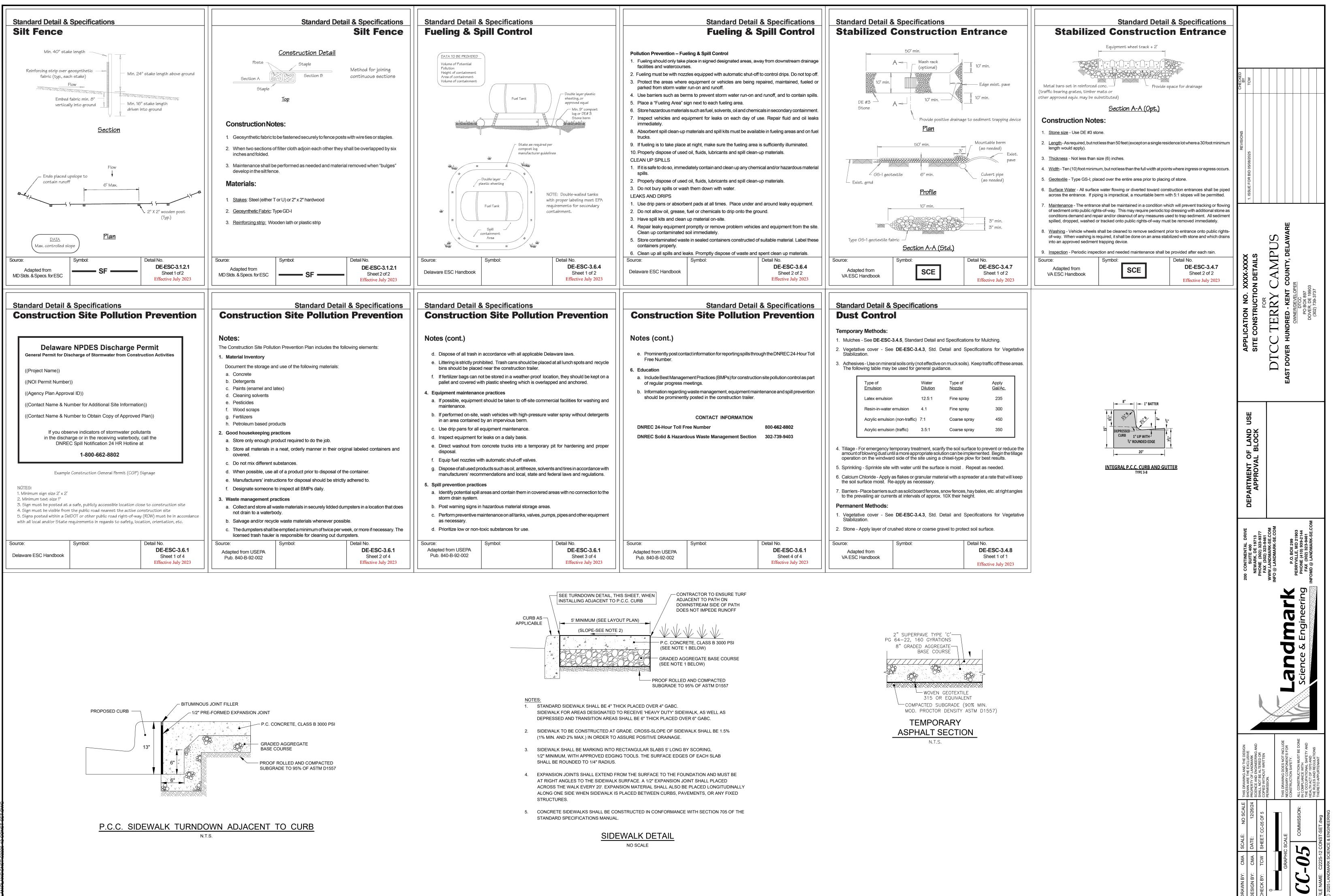
|  |  | C                                   | 1. ISSUE FOR BID 05/08/2025 TCW  |   |
|--|--|-------------------------------------|--|---|
| 42<br>42<br>42<br>42<br>42<br>42<br>42<br>42<br>42<br>42 | LEGEND<br>EXISTING VERTICAL P.C.C. CURB<br>EXISTING P.C.C. SIDEWALK<br>EXISTING BUILDING<br>PROPOSED BUILDING<br>EXISTING CONTOUR<br>PROPOSED CONTOUR<br>PROPOSED SPOT ELEVATION<br>EXISTING FIRE HYDRANT<br>PROPOSED LIMITS OF DISTURBANCE<br>LIMITS OF DISTURBANCE/SILT FENCE<br>PROPOSED PCC CURB TYPE 3-8<br>PROPOSED SIDEWALK | APPLICATION NO                      | POSED CONDITIONS AND GRAD  | DTCC TERRY CAMPUS<br>East dover hundred - kent county, delaware<br>Owner/developer<br>DTCC<br>POBOX 897<br>DOVER, de 19903<br>(302) 739-3737  |
| Ε  | PROPOSED ELECTRICAL LINE   |                                     | SUITE 400 DEPARTMENT OF LAND USE<br>NEWARK, DE 19713 APPROVAL BLOCK<br>FAX (302) 323-9461<br>WWW 1 ANDMARK SE COM                                  |   |
|  |  | RAWING AND THE DESIGN               | PROPERTY OF LANDMARK<br>PROPERTY OF LANDMARK<br>SCIENCE AND BE GIGINEERING AND<br>SHALL NOT BE ALTERED OR<br>COPIED WITHOUT WRITTEN<br>PERMISSION. | THIS DRAWING DOES NOT INCLUDE<br>NECESSARY COMPONENTS FOR<br>CONSTRUCTION SAFETY.<br>ALL CONSTRUCTION NUST BE DONE<br>IN CONDENSION MUST BE D |
|  |  | DRAWN BY: CMA SCALE: 1"=20' THIS DR | CMA         DATE:         12/26/24           TCW         SHEET: CC-03 OF 5         10  | 0     10     20     40       GRAPHIC SCALE     Annual     THIS DRANGESS       CC-03     COMMISSION:     Annual       FILE NAME:     C2225-12 CONST-SET.dwg     THE RUL  |

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|              |                            |   | REVISIONS     CHECKED<br>BY       1. ISSUE FOR BID 05/08/2025     TCW   |   |
|--------------|----------------------------|---|---|---|
|              | $+ \frac{4120}{\sqrt{77}}$ | LEGEND<br>EXISTING VERTICAL P.C.C. CURB<br>EXISTING P.C.C. SIDEWALK<br>EXISTING BUILDING<br>PROPOSED BUILDING<br>EXISTING CONTOUR<br>PROPOSED CONTOUR<br>PROPOSED CONTOUR<br>PROPOSED SPOT ELEVATION<br>EXISTING FIRE HYDRANT<br>PROPOSED LIMITS OF DISTURBANCE | APPLICATION NO. XXXX-XXXX<br>EROSION AND SEDIMENT CONTROL PLAN  | DTCC TERRY CAMPUS<br>East dover hundred - Kent county, delaware<br>owner/developer<br>DTCC<br>POBOX 897<br>DOVER, DE 19903<br>(302) 739-3737  |
| CAMPUS DRIVE | LOD/SF<br>LOD/SF<br>SCE    | LIMITS OF DISTURBANCE/SILT FENCE<br>PROPOSED PCC CURB TYPE 3-8<br>PROPOSED SIDEWALK<br>PROPOSED RIP RAP<br>PROPOSED SCE   | DEPARTMENT OF LAND USE<br>APPROVAL BLOCK  |   |
|              |                            |   | 200 CONTINENTAL DRIVE<br>SUITE 400<br>NEWARK, DE 19713<br>PHONE (302) 323-9377<br>EAV (303) 323-0461  | Landmark-se.com         Bandark       Provention         Science & Engineering       Prove (410) 338-214         Franktie       Prove (410) 338-214         Infomb @ Landmark-se.com       Prove (410) 338-214  |
|              |                            |   | DRAWN BY:     CMA     SCALE:     1"=20'     THIS DRAWING AND THE DESIGN       DESIGN BY:     CMA     DATE:     12/26/24     SHOWN ARE THE EXCLUSIVE       DESIGN BY:     CMA     DATE:     12/26/24     SHOWN ARE THE EXCLUSIVE       CHECK BY:     TCW     SHEET: CC-04 OF 5     SHALL NOT BE ALTERED OR | 0     10     20     40       FILE NAME     FRMISSION       CCL-04     COMMISSION       FILE NAME     COMMISSION       FILE NAME     CONSTRUCTION MUST BE DONE       FILE NAME     CONSTRUCTION MUST BE DONE       FILE NAME     C2255-12 CONST-SET.dwg       C2255 LANDMARK SCIENCE & ENGINEERING |



5 DELTECH TERRY CAMPUS/C225-12 PRESIDENTS OFFICE ADDITION SIT

|                   | WITH JOB SPECIFICATIONS AND ARCHITECT<br>ELECTRICAL, PLUMBING, AND SITE DRAWING<br>DRAWINGS FOR LOCATIONS AND DIMENSIO<br>CHASES, INSERTS, REGLETS, SLEEVES, DEL<br>OTHER DETAILS NOT SHOWN ON STRUCTUR<br>DIMENSIONS AND CONDITIONS MUST BE V<br>ANY DISCREPANCIES SHALL BE BROUGHT T<br>THE ENGINEER BEFORE PROCEEDING WITH T<br>OF THE WORK.  | GS. CONSULT THESE<br>DNS OF OPENINGS,<br>PRESSIONS, AND<br>RAL DRAWINGS. ALL<br>/ERIFIED IN THE FIELD.<br>TO THE ATTENTION OF  |
|-------------------|--|--|
| 2.                | THE STRUCTURE IS DESIGNED TO BE SELF<br>STABLE AFTER THE BUILDING IS COMPLETE<br>CONTRACTOR'S SOLE RESPONSIBILITY TO<br>PROCEDURES AND SEQUENCE TO INSURE<br>BUILDING AND ITS COMPONENTS DURING E<br>INCLUDES, BUT IS NOT LIMITED TO, THE AE<br>SHORING, SHEETING, TEMPORARY BRACING<br>PROVIDE ALL SHORING AND BRACING REQU<br>PROTECT EXISITING AND ADJACENT STRUCT<br>DURING COURSE OF DEMOLITION AND CON<br>COMPLETION OF THE PROJECT. | . IT IS THE<br>DETERMINE ERECTION<br>THE SAFETY OF THE<br>ERECTION. THIS<br>DDITION OF NECESSARY<br>G, GUYS OR TIEDOWNS.<br>JIRED TO STABILIZE AND<br>TURES AND SYSTEMS    |
| 3.                | SECTIONS AND DETAILS SHOWN ON ANY S<br>SHALL BE CONSIDERED TYPICAL FOR SIMIL   |  |
| 4.                | ALL APPLICABLE FEDERAL, STATE AND MUN<br>BE FOLLOWED, INCLUDING THE FEDERAL DE<br>OCCUPATIONAL SAFETY AND HEALTH ACT.  |  |
| 5.                | ANY AND ALL MODIFICATIONS TO THE STRU<br>INDICATED ON THESE DRAWINGS MUST BE<br>INGRAM & ASSOCIATES.   |  |
| DESI              | GN LOADS   |  |
| Ι.                | BUILDING CODE: INTERNATIONAL BUILDING  | CODE (2009 EDITION).   |
| 2.                |  |  |
|                   | ROOF<br>SLAB ON GRADE  | 30 PSF MIN. + DRIFT<br>100 PSF   |
| 3.                | SNOW LOADING IS BASED ON THE FOLLOW<br>SNOW LOADS HAVE BEEN CONSIDERED WH  |  |
|                   | GROUND SNOW LOAD   |  |
|                   | FLAT-ROOF SNOW LOAD<br>SNOW EXPOSURE FACTOR<br>SNOW THERMAL FACTOR   | 1.0  |
|                   | SNOW LOAD IMPORTANCE   | 1.0  |
| 4.                |  |  |
|                   | NOMINAL DESIGN WIND SPEED<br>EXPOSURE CATEGORY<br>RISK CATEGORY  | 95 MPH<br>B<br>II  |
|                   | BUILDING CATEGORY  | <br>SIMPLE DIAPHRAM,<br>LOW-RISE, ENCLOSED   |
|                   | INTERNAL PRESSURE COEFF.   | RIGID STRUCTURE<br>+/-0.18   |
| 5.                | DESIGN EARTHQUAKE LOADS ARE BASED C  | ON THE FOLLOWING:  |
|                   | SITE CLASS (ASSUMED)<br>SEISMIC IMPORTANCE FACTOR<br>SEISMIC OCCUPANCY CATEGORY<br>SPECTRAL RESPONSE ACCEL. (SS)<br>SPECTRAL RESPONSE ACCEL. (SI)<br>SPECTRAL RESPONSE COEFF. (SDS)<br>SPECTRAL RESPONSE DOEFF. (SDI)<br>RESPONSE MODIFICATION FACTOR (<br>SEISMIC DESIGN CATEGORY   | 0.050g<br>0.185g<br>0.079g   |
| <u>DEM(</u><br>I. | OLITION NOTES<br>CONTRACTOR(S) ARE RESPONSIBLE FOR DO<br>ALL DAMAGE TO THE EXISTING STRUCTURE<br>THE OWNER/ARCHITECT/ENGINEER PRIOR TO<br>ANY DEMOLITION WORK.   | . SUBMIT TO  |
| 2.                | CONTRACTOR TO COORDINATE WITH OWNE<br>OF ELECTRICAL, MECHANICAL, PLUMBING A<br>PRIOR TO ANY DEMOLITION WORK.   | -  |
| 3.                | PROVIDE TEMPORARY BARRICADES AND O<br>PROTECTION AS REQUIRED TO PROTECT OF<br>AND GENERAL PUBLIC FROM INJURY DUE TO<br>PROVIDE TEMPORARY CONSTRUCTION AS I<br>SURROUNDING AREAS FROM DAMAGE.   | WNER'S PERSONAL<br>O DEMOLITION WORK.  |
| 4.                | PROTECT FROM DAMAGE EXISTING FINISH<br>REMAIN IN PLACE AND BECOMES EXPOSED<br>OPERATIONS.  |  |
| ō.                | REMOVE PROTECTION AT COMPLETION OF   | WORK.  |
| 6.                | DAMAGES: PROMPTLY REPAIR DAMAGES C<br>FACILITIES BY DEMOLITION AT NO COST TO   |  |
| 7.                | CEASE OPERATIONS AND NOTIFY OWNER'S<br>IMMEDIATELY IF SAFETY OF STRUCTURE AP<br>TAKE PRECAUTIONS TO SUPPORT STRUCTL<br>MADE FOR CONTINUING OPERATIONS.   | PEARS TO BE ENDANGERED.  |
| 3.                | LOCATE, IDENTIFY, STUB OFF, AND DISCOL<br>ARE NOT INDICATED TO REMAIN. CONTACT<br>COMPLETE CUT OFF.  |  |
| Э.                | IF UNANTICIPATED MECHANICAL, ELECTRICA<br>THAT CONFLICT WITH INTENDED FUNCTION<br>INVESTIGATE AND MEASURE BOTH NATURE<br>SUBMIT REPORT TO OWNER'S REPRESENTA<br>DETAIL. PENDING RECEIPT OF DIRECTIVE FR<br>REARRANGE SELECTIVE DEMOLITION SCHEE<br>OVERALL JOB PROGRESS WITHOUT DELAY.   | OR DESIGN ARE ENCOUNTERED,<br>AND EXTERIOR OF CONFLICT.<br>ATIVE IN WRITTEN, ACCURATE<br>COM OWNER'S REPRESENTATIVE,<br>DULE AS NECESSARY TO CONTINUE                      |
| 10.               | DISPOSAL OF DEMOLISHED MATERIALS: R<br>OTHER MATERIALS RESULTING FROM DEMO<br>SITE. TRANSPORT AND LEGALLY DISPOSE O<br>ARE ENCOUNTERED DURING DEMOLITION O<br>REGULATIONS, LAWS, AND ORDINACES CO<br>PROTECTION AGAINST EXPOSURE OR ENVIR<br>REMOVED MATERIALS IS NOT PERMITTED O  | DLITION OPERATIONS FROM BUILDIN<br>DFF-SITE. IF HAZARDOUS MATERIALS<br>DPERATIONS, COMPLY WITH APPLICA<br>NCERNING REMOVAL, HANDLING, AN<br>RONMENTAL POLLUTION. BURNING C |
|                   | REPAIR DEMOLITION PERFORMED IN EXCES   | S OF THAT REQUIRED. RETURN   |

### EXISTING CONDITIONS

- I. EXISTING CONDITIONS INDICATED ARE OBTAINED FROM AVAILABLE SOURCES (EXISTING DRAWINGS, FIELD SURVEY ETC.) AND ARE NOT GUARANTEED TO BE TRUE AND EXACT CONTRACTOR(S) SHALL FIELD VERIFY EXISTING CONDITION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOF PROCEEDING WITH THE AFFECTED PORTION OF THE WORK
- 2. SEE ARCH DRAWINGS FOR LIMITS OF DEMOLITION OF EXIS CONSTRUCTION WHERE REQUIRED.

### FOUNDATION

- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WI RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERS F PREPARED BY JOHN D. HYNES & ASSOCIATES, INC. DATED AUGUST 20, 2012.
- 2. ALLOWABLE SOIL BEARING CAPACITY: 2000 PSF
- 3. CONTRACTOR, AT HIS EXPENSE, SHALL RETAIN THE SERVIC GEOTECHNICAL ENGINEER LICENSED IN THE STATE WHERE IS LOCATED, TO VERIFY THE SUITABILITY OF THE SUBGRAE PROPOSED FOUNDATION SYSTEM & BUILDING.
- 4. FOUNDATION DESIGN IS BASED ON SHALLOW SPREAD FO ON SUITABLE NATURAL SOILS AND/OR NEW COMPACTED S
- 5. ALL ORGANIC MATERIALS, EXCESSIVELY SOFT OR LOOSE S ASPHALT, CONCRETE, DEBRIS AND OTHER DELETERIOUS M BE REMOVED WITHIN AND AT LEAST 5 FEET BEYOND THE E EXISTING ORGANIC SOIL SHOULD BE STRIPPED AND CAN E REUSE IN LANDSCAPE AREAS. PROOF ROLL ALL SUBGRADE OBSERVATION OF THE GEOTECHNICAL ENGINEER. UNSUITA BE REMOVED AND REPLACED AS DIRECTED BY THE GEOTEC NO FILL FOR BUILDING SUPPORT SHALL BE PLACED UNTIL S MATERIAL HAVE BEEN OBSERVED AND APPROVED BY THE
- 6. AREAS REQUIRING UNDERCUT AND FILL MATERIAL DUE TO UNSUITABLE MATERIAL SHALL BE BACKFILLED TO THE DES WITH NEW COMPACTED STRUCTURAL FILL.
- 7. COMPACTED STRUCTURAL FILL FOR BUILDING AND SLAB S USE INCLUDE:
  - GRANULAR SOILS INCLUDING GW, GP, GM, SW, SP A ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATI FURTHERMORE, THE MATERIAL TO BE UTILIZED AS S SHOULD HAVE A PLASTICITY INDEX (PI) LESS THAN 2
  - A MATERIAL UTILIZED FOR STRUCTURAL FILL MUST E GEOTECHNICAL ENGINEER. IF THERE IS NOT SUFFICI CONTRACTOR SHALL TRANSPORT APPROVED BORRO SITE SOURCE.
- 8. SLABS ON GRADE MAY BE SUPPORTED ON FIRM SUITABLE COMPACTED STRUCTURAL FILL FOLLOWING STRIPPING OF ASPHALT AND ANY SOFT OR DISTURBED SOILS WITHIN THE 4 INCH WASHED GRAVEL OR CRUSHED STONE LAYER COR NO. 57 AGGREGATE SHOULD BE USED BENEATH ALL FLOO DWGS. FOR AREAS OF THICKER STONE BASE). ALL INTERIO VAPOR BARRIER LOCATED BELOW THE SLAB AND ABOVE T NOTED OTHERWISE.
- 9. COMPACTED STRUCTURAL FILL BENEATH ALL FOUNDATION ADJACENT TO FOUNDATION WALLS SHALL BE PLACED IN LI (4 INCHES FOR HAND COMPACTORS) IN LOOSE THICKNESS 95 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D-155
- 10. BACKFILL IMMEDIATELY BEHIND FOUNDATION WALLS SHOW MATERIAL CONTAINING LESS THAN TEN (10) PERCENT PAS SIEVE (0.07MM). IN ADDITION, THE COMPACTION BEHIND NINETY-FIVE (95) PERCENT OF THE MODIFIED PROCTOR M ACCORDANCE WITH ASTM D-1557. EXCESSIVE COMPACT THE WALLS. HAND OPERATED EQUIPMENT SHOULD BE USI EXISTING AND NEW FOUNDATION WALLS. BACKFILL AGAINS ONLY AFTER FIRST FLOOR IS IN PLACE OR ADEQUATE BRA CONCRETE FLOOR SLABS SHALL HAVE CURED 7 DAYS MIL
- II. THE EXCAVATION FOR PLACEMENT OF COMPACTED STRUC BEYOND THE EDGE OF FOOTINGS A MINIMUM DISTANCE E
- I 2. EXTEND BOTTOM OF EXTERIOR FOOTINGS AT LEAST 2'-8" GRADE FOR PROTECTION AGAINST FROST.
- 13. ALL SUBGRADES AND UNDERCUTS SHALL BE APPROVED E SOILS EXPOSED AT THE BASES OF ALL APPROVED FOUND BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CO FROM RAIN OR FROST. SURFACE RUNOFF SHOULD BE DR EXCAVATIONS AND NOT BE ALLOWED TO POND. FOUNDAT PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. S REQUIRED FOR STABILITY AND SAFETY OR PROVIDE SHEET WITH OSHA REQUIREMENTS. IN THE EVENT THAT THE CON SHEETING AND SHORING IS REQUIRED FOR EXCAVATION, THE SERVICES OF A REGISTERED PROFESSIONAL STRUCTI DOCUMENTATION OF ALL SHEETING AND SHORING REQUIRE

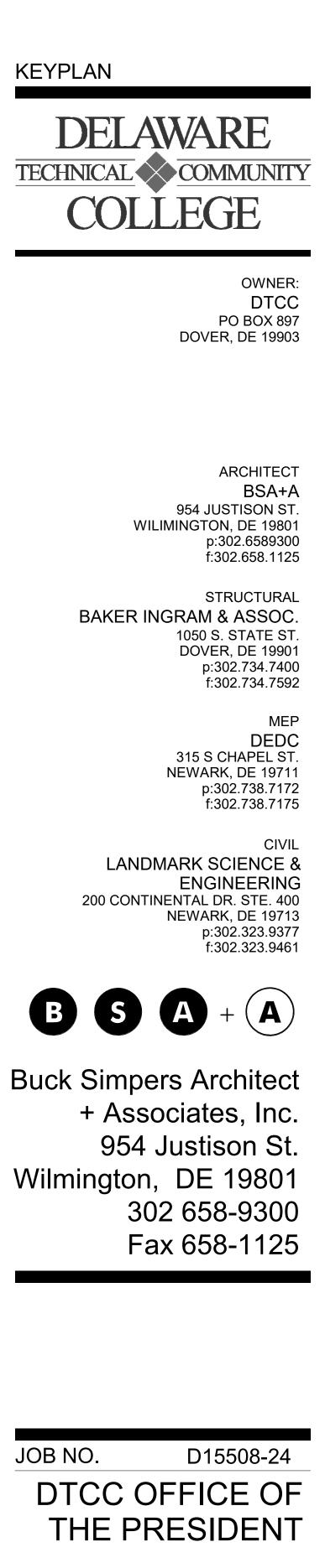
|   | <u>CON(</u> | CRETE   | <u>COLE</u> | D FORMED STEEL FRAMING   |
|---|-------------|---|-------------|--|
| YS,<br>T.   | ۱.<br>2.    | ALL CONCRETE WORK SHALL CONFORM TO ACI 318 (LATEST EDITION).<br>CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE:  | ١.          | THE EXTENT OF THE WORK FOR<br>SYSTEM IS DETAILED ON THE A<br>NOTES SHALL BE WORKED IN C  |
| NS<br>IR TO<br>K.   |             | FOOTINGS: 3000 PSI<br>INTERIOR SLABS: 4000 PSI<br>PIERS: 4000 PSI   |             | AND THE SPECIFICATIONS. INCO<br>THE ATTENTION OF THE ARCHIT<br>AFFECTED PORTION OF THE WC  |
| ISTING  |             | EXTERIOR SLABS: 5000 PSI<br>ALL CONC. TO BE NORMAL WEIGHT UNLESS NOTED OTHERWISE.   | 2.          | STUD FRAMING SUBCONTRACT<br>THE REQUIREMENTS OF THE DE   |
|   |             | ALL EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED (6 +/-1)% PER ASTM C260.   |             | ILLUSTRATE THE DESIGN OF THE<br>ALL STEEL STUD WALL FRAMING<br>STIFFENERS, ALL WALL OPENING  |
| /ITH THE<br>REPORT<br>D   |             | MAXIMUM WATER/CEMENT RATIO =<br>0.50 FOR 3000 PSI CONC.<br>0.45 FOR 4000 PSI CONC.<br>0.40 FOR 5000 PSI CONC.   | 3.          | WELL AS ALL PERMANENT AND THE EXTERIOR WALL SYSTEM SI<br>HORIZONTAL DEFLECTION OF L/<br>ATTACHMENT TO STRUCTURAL   |
|   | 3.          | CONCRETE REINFORCING SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:DEFORMED BARSASTM AG I 5, GRADE 60WELDED WIRE FABRICASTM A I 85  | 4.          | ONLY. THE DESIGN WIND PRESS  |
| ICES OF A<br>E THE PROJECT<br>ADE FOR THE   | 4.          | LAP DEFORMED BARS 40 DIA., UNO. HOOKS SHALL BE STANDARD HOOKS, UNO. LAP<br>WELDED WIRE FABRIC SUCH THAT THE OVERLAP OF THE OUTERMOST CROSS WIRES<br>FOR EACH ADJOINING SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES  | 5.          | "SPECIFICATION FOR THE DESIG<br>MEMBERS", LATEST EDITION.<br>STUDS, TRACK AND BRACING S  |
| DOTINGS BEARING   | 5.          | PLUS TWO IN., UNO.<br>CONCRETE PROTECTION FOR REINFORCEMENT (UNLESS NOTED OTHERWISE):   | 6.          | SPECIFICATION C-955.<br>ALL GALVANIZED STUDS, JOIST  |
| STRUCTURAL FILL.<br>SOILS, TREES,<br>MATERIALS SHOULD   |             | CONCRETE CAST AGAINST AND PERMANENTLY<br>EXPOSED TO EARTH: 3 IN.<br>CONCRETE EXPOSED TO EARTH OR WEATHER:<br>NO. 6 THROUGH NO. 18 BARS: 2 IN.   |             | GAUGE SHALL BE FORMED FRO<br>REQUIREMENTS OF ASTM A440<br>YIELD STRENGTH OF 50,000 PS  |
| BUILDING LIMIT. THE<br>BE STOCKPILED FOR<br>DES, UNDER THE<br>FABLE AREAS SHALL                                     | 6.          | NO. 5 BAR AND SMALLER: I 1/2 IN.<br>REINFORCING FOR SLABS ON GRADE, WHERE NOT OTHERWISE SPECIFIED, SHALL BE   | 7.          | ALL GALVANIZED STUDS, JOIST<br>LIGHTER, SHALL BE FORMED FR<br>REQUIREMENTS OF ASTM A446  |
| ECHNICAL ENGINEER.<br>. SUBGRADES AND FILL<br>E GEOTECHNICAL ENGINEER.  |             | AS FOLLOWS:<br>REINFORCING BARS: SEE FOUNDATION AND TYPICAL DETAILS.<br>WIRE MESH: 6x6-W2.1 x W2.1 WWF. REINFORCING SHALL BE  | 8.          | YIELD STRENGTH OF 33,000 PS<br>ALL MEMBERS AND ACCESSOR<br>PER ASTM A525 AND SHALL HA  |
| D THE PRESENCE OF<br>SIGN FOOTING SUBGRADE  | 7.          | SUPPORTED AT MID-DEPTH OF SLAB.<br>WELDING OF REINFORCEMENT IS NOT PERMITTED UNLESS SPECIFICALLY INDICATED  | 9.          | THE LIGHT GAUGE STEEL FRAMI<br>5 YEARS EXPERIENCE IN THE FA  |
| SUPPORT APPROVED FOR  |             | ON DRAWINGS. WELDING, WELDING ELECTRODES AND FLUXES SHALL CONFORM TO<br>AWS DI.4-92, "STRUCTURAL WELDING CODE – REINFORCED STEEL". ELECTRODES<br>SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI. ASTM A706 BARS SHALL<br>BE USED IN ALL WELDED APPLICATIONS.   | 10.         | FRAMING SYSTEMS.<br>PROVIDE CHANNEL SHAPED STI<br>ANGLES, SHOES, REINFORCEMI   |
| AND SM CLASSIFIED IN<br>TION SYSTEM (USCS).<br>STRUCTURAL FILL<br>20.   | 8           | COMPLETE SHOP DRAWINGS AND SCHEDULES OF ALL REINFORCING STEEL SHALL<br>BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW.<br>REFER TO SPECIFICATIONS.  | 11.         | RECOMMENDED BY THE MANUF<br>TRACK SHALL BE ATTACHED TO<br>STRUCTURAL COMPONENTS AS   |
| BE APPROVED BY THE<br>CIENT FILL MATERIAL ON SITE,<br>ROW MATERIAL FROM AN OFF                                      | 9.          | REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTER-SECTIONS.<br>PROVIDE CLASS A TENSION LAP SPLICES FOR ALL HORIZONTAL WALL REINFORCING<br>UNLESS OTHERWISE SHOWN ON PLAN. PROVIDE CLASS B TENSION LAP SPLICES FOR   |             | TRACK TO FLOOR CONSTRUCTION<br>SLIP JOINTS WHERE NON-BEAR<br>STRUCTURAL MEMBER. ALLOW  |
| LE NATURAL SOILS, OR ON   | 10.         | ALL HORIZONTAL GRADE BEAM REINFORCING.<br>CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.  | 12.         | ALL COLD FORM TO COLD FORI<br>NO. 10 TEKS/3 SCREWS OF AP<br>SHOWN ON THE PLANS. PENETR<br>LESS THAN 3 EXPOSED THREAD   |
| F TOPSOIL, VEGETATION,<br>HE BUILDING AREA. A MINIMUM<br>RRESPONDING TO AASHTO SIZE<br>OR SLABS ON GRADE. (REF.     | 11.         | PROVIDE SLEEVES WHERE PIPES PASS THROUGH WALLS, BEAMS OR SLABS.<br>REF. MEP DRAWINGS.   | 13.         | ATTACH SHEATHING AND GYPSI<br>PER MANUFACTURER'S RECOMI  |
| IOR SLABS SHALL HAVE A 15 mil<br>THE CRUSHED STONE, UNLESS  | 12.         | JOINTS IN SLABS ON GRADE:   |             | ON THE PLAN.   |
| NS, SLABS ON GRADE AND<br>LIFTS NOT EXCEEDING 8 INCHES<br>SS AND BE COMPACTED TO                                    |             | a) CONTROL JOINTS SHALL BE LOCATED AS SHOWN ON FOUNDATION<br>PLAN. IF NOT SHOWN, PROVIDE JOINTS IN A RECTANGULAR<br>CONFIGURATION, WITH THE LONGER SIDE NO MORE THAN ONE-AND<br>ONE-HALF TIMES THE LENGTH OF THE SHORTER SIDE. SPACE CONTROL<br>JOINTS NO MORE THAN 20 FEET APART. DISCONTINUE WELDED WIRE                          |             | INSTALL BUILT-UP HEADERS IN<br>HORIZONTAL STUD BRACING SH<br>OR MANUFACTURERS STANDAR<br>CONTINUOUS AND LOCATED AT   |
| 57, MODIFIED PROCTOR TEST.<br>DULD BE CLEAN, GRANULAR<br>BSING THE NO. 200<br>D THESE WALLS SHOULD BE               |             | <ul> <li>FABRIC AT CONTROL JOINTS.</li> <li>b) CONTROL JOINTS SHALL BE SAW CUT OR FORMED 1/4" WIDE x (1/3 SLAB THICKNESS) DEEP AND FILLED WITH JOINT SEALER. CUT JOINTS AS SOON AS POSSIBLE WITHOUT FRAYING THE CONCRETE SURFACE.</li> <li>c) CONSTRUCTION JOINTS SHALL INCLUDE A 1"x2" SHEAR KEY AT MID-HEIGHT OF SLAB.</li> </ul> |             | NON-LOAD BEARING WALLS UN<br>SHEATHING OR PLYWOOD) IS IN<br>ANCHORED TO A STRUCTURAL<br>ALL TEMPORARY BRACING FOR<br>SIDES OF THE WALL UNLESS NO<br>BEARING STUDS. |
| AXIMUM DRY DENSITY IN<br>CTION MAY CAUSE DAMAGE TO<br>BED FOR COMPACTION NEAR<br>IST NEW FOUNDATION WALLS           |             | d) ISOL. JT.: PRE-MOLDED JOINT FILLER. USE AROUND ALL PIERS AND<br>AT FOUNDATION WALLS.   | 16.         | AT TRACK BUTT JOINTS, TRACK<br>ELEMENT.  |
| ACING HAS BEEN PROVIDED.<br>INIMUM PRIOR TO BACKFILLING.  | 13.         | ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 3G UNLESS NOTED OTHERWISE.   | 17.         | ALL PERMANENT AND TEMPORA<br>REINFORCEMENT SHALL BE INS  |
| CTURAL FILL SHOULD EXTEND<br>EQUAL TO THE DEPTH OF FILL.  |             | <u>ONRY</u>   | 18.         | MEMBER.<br>PERFORM WELDING OF ALL LIGH   |
| BELOW THE EXTERIOR FINISH   | Ι.          | ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530. I<br>(LATEST EDITION).   | 19.         | AWS D1.3 (SPECIFICATION FOR<br>CUT ALL LIGHT GAUGE STEEL FR  |
| BY THE GEOTECHNICAL ENGINEER.<br>DATION EXCAVATIONS SHOULD<br>ONDITION, SUCH AS DISTURBANCE<br>RAINED AWAY FROM THE | 2.          | ALL CONCRETE MASONRY UNITS SHALL BE ASTM C90, GRADE N,<br>TYPE I STANDARD WEIGHT BLOCKS INCLUDING STRETCHERS AND<br>CORNER BLOCKS. MINIMUM PRISM STRENGTH OF BLOCK SHALL<br>BE Fm = 1500 PSI IN 28 DAYS. MORTAR SHALL CONFORM TO  | WOO         | CUTTING IS NOT PERMITTED.  |
| TION EXCAVATIONS SHOULD BE<br>SLOPE FOOTING EXCAVATIONS AS  | 3.          | ASTM SPECIFICATION C270, TYPE M OR S.<br>CONCRETE MASONRY UNITS SHALL BE LAID IN RUNNING BOND   | ١.          | COMPLY WITH THE NATIONAL FO  |
| ETING OR SHORING IN ACCORDANCE<br>NTRACTOR DETERMINES THAT<br>THE CONTRACTOR SHALL RETAIN                           | 4.          | UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS.   | 2.          | STRUCTURAL SHEATHING:<br>RATING OF 32/16, MINIMUM 4  |
| TURAL ENGINEER FOR DESIGN AND IRED FOR THE WORK.  | 5.          | COORDINATED WITH THE ARCHITECTURAL DRAWINGS.<br>MASONRY WALLS WHICH SUPPORT STRUCTURAL MEMBERS SHALL  |             | FOR FLOOR. FOR FLOORS, USE<br>SCREWED WITH STAGGERED JO<br>REQUIREMENTS FOR PLYWOOD  |
|   |             | HAVE CELLS GROUTED SOLID 3 COURSES MINIMUM UNDER BEARING.   |             |  |
|   | 6.          | HORIZONTAL WALL REINFORCING SHALL BE DUR-O-WAL TRUSS<br>DESIGN WITH 3/16" SIDE RODS AND 8 GAUGE CROSS TIES.<br>REINFORCING SHALL BE PLACED IN MASONRY WALLS AT 16"<br>MAXIMUM. USE SHOP FABRICATED SPECIAL PIECES AT ALL<br>CORNERS AND TEES.   |             |  |
|   | 7.          | BRICK VENEER ANCHORS FOR STUD BACKUP SHALL HAVE 3/16"<br>ROUND HOT DIPPED GALVANIZED STEEL TIES FOR USE WITH DW-10<br>ANCHORS BY HOHMAN & BARNARD. LOCATE 16" O.C. VERTICALLY<br>32" O.C. HORIZONTALLY AND 8" O.C. AROUND OPENINGS.   |             |  |
|   | 8.          | SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINTS.  |             |  |
|   | 9.          | STANDARD LAP LENGTH OF GRADE 60 MASONRY REINFORCING BARS<br>SHALL BE 48 BAR DIAMETERS.  |             |  |
|   | 10.         | ALL LOAD BEARING CMU WALLS SHALL CONTAIN JOINTS WHICH ARE FULLY BEDDED.   |             |  |
|   | 11.         | UNLESS OTHERWISE NOTED, PROVIDE THE FOLLOWING LINTELS FOR<br>EACH 4 INCH THICKNESS OF MASONRY WALL WITH 8 INCHES OF<br>BEARING AT EACH END. FOR UNEQUAL LEG ANGLES, ORIENT THE<br>LONG LEGS VERTICAL: GALVANIZE ALL LINTELS EXPOSED TO THE<br>WEATHER.  |             |  |
|   |             | OPENINGS UP TO 4'-0"L3 1/2" x 3 1/2" x 5/16"OPENINGS 4'-6'L4" x 3 1/2" x 5/16"OPENINGS 6'-8'L5" x 3 1/2" x 5/16"OPENINGS 8'-10'L6" x 3 1/2" x 3/8"  |             |  |
|   | 12.         | FILL ALL BOND BEAMS WITH 2500 PSI CONCRETE USING 3/8"<br>MAXIMUM AGGREGATE SIZE.  |             |  |
|   | 13.         | WHERE INDICATED, GROUT CORES SOLID WITH A HIGH SLUMP<br>MIX IN ACCORDANCE WITH ASTM SPECIFICATION C476 HAVING A<br>MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.  |             |  |
|   |             |   |             |  |

|   |  | FORMED STEEL TRUSSES   |  |  |  |  |
|---|--|--|--|--|--|--|
| R THE EXTERIOR METAL STUD WALL  | ١.   | ROOF TRUSS MINIMUM DESIGN REQ'MTS:   |  |  |  |  |
| ARCHITECTURAL DRAWINGS. THESE<br>CONJUNCTION WITH THOSE DRAWINGS<br>CONSISTENCIES SHALL BE BROUGHT TO<br>TECT PRIOR TO PROCEEDING WITH THE<br>ORK.                          |  | TOP CHORD LIVE LOAD<br>TOP CHORD DEAD LOAD<br>TOP CHORD CONCENTRATED LOAD  | 30 PSF<br>10 PSF<br>175 LB (ANYWHERE ALONG<br>LENGTH OF TRUSS) |  |  |  |
| TOR SHALL SUBMIT SHOP DRAWINGS MEETING THE<br>ESIGN DOCUMENTS. SHOP DRAWINGS SHALL  |  | BOTTOM CHORD LIVE LOAD<br>BOTTOM CHORD LIVE LOAD (AT ATTIC)  | O PSF<br>60 PSF (COORD. ADD'L LOAD<br>FOR MECH UNITS)          |  |  |  |
| IE STEEL STUD EXTERIOR WALL FRAMING AND SHOW<br>G CONNECTIONS, SHEATHING ATTACHMENTS,<br>IGS, BUILT-UP HEADER AND POST LOCATIONS, AS  |  | BOTTOM CHORD DEAD LOAD<br>BOTTOM CHORD CONCENTRATED LOAD   | I O PSF<br>500 Ib (ANYWHERE ALONG<br>LENGTH OF TRUSS)          |  |  |  |
| TEMPORARY WALL BRACING AND THEIR LOCATIONS.   |  | MAX. TOTAL LOAD DEFLECTION<br>MAX. LIVE LOAD DEFLECTION  | L/240<br>L/360   |  |  |  |
| JOR A MAXIMUM ALLOWADEL<br>JGOO OF THE SPAN MEASURED FROM POINT OF<br>STEEL OR CONCRETE, INCLUDING EFFECTIVE STUDS<br>SURE SHALL BE AS REQUIRED BY CODE.                    | 2.   | COLD FORMED TRUSS MANUFACTURER TO DESIG<br>BRACING AND TRUSS HOLD DOWNS AS REQUIRED  |  |  |  |  |
| O BE DESIGNED IN ACCORDANCE WITH AISI,<br>GN OF COLD-FORMED STEEL STRUCTURAL  | 3.   | SUBMIT COLD FORMED STEEL TRUSS SHOP DRAW<br>ANY FABRICATION.   | /INGS FOR APPROVAL PRIOR TO                                    |  |  |  |
| SHALL BE MANUFACTURED PER ASTM  | 4.   | MANUFACTURER IS RESPONSIBLE FOR DESIGN OF<br>TO BE SEALED BY DELAWARE PROFESSIONAL ENG   |  |  |  |  |
|   | 5.   | TRUSS MANUFACTURE TO COORDINATE TRUSS LA<br>RUNS & MECHANICAL UNITS.   | YOUT WITH MEP WORK INCLUDING DUCTWORK                          |  |  |  |
| TS AND ACCESSORIES 12, 14 AND 16<br>DM STEEL THAT CONFORMS TO THE<br>G, GRADE D, WITH A MINIMUM SPECIFIED   | <u>STRU</u>  | CTURAL STEEL   |  |  |  |  |
| °SI.  | ١.   | STRUCTURAL STEEL FABRICATION, ERECTION, AND<br>DESIGN SHALL CONFORM TO AISC "SPECIFICATION   |  |  |  |  |
| TS AND ACCESSORIES, 18 GAUGE OR<br>ROM STEEL THAT CONFORMS TO THE<br>G, GRADE A, WITH A MINIMUM SPECIFIED   |  | FABRICATION, AND ERECTION OF STRUCTURAL ST<br>LATEST EDITION.  | -  |  |  |  |
| 'SI.<br>RIES SHALL BE HOT DIPPED GALVANIZED   | 2.   | STRUCTURAL STEEL SHALL CONFORM TO THE FOL<br>STRUCTURAL STEEL WF SHAPES:<br>OTHER STRUCTURAL STEEL SHAPES:   | ASTM A992  |  |  |  |
| IAVE A MINIMUM G-60 COATING.<br>IING SUPPLIER AND ERECTOR SHALL HAVE A MINIMUM  |  | STEEL BARS, ANGLES & PLATES:<br>SQUARE OR RECTANGULAR TUBING:  | ASTM A36, U.N.O.<br>ASTM A500, GRADE B                         |  |  |  |
| ABRICATION AND ERECTION OF LIGHT GAUGE STEEL  | 3.   | FIELD CONNECTIONS SHALL BE BOLTED USING 3/4<br>HIGH STRENGTH BOLTS (UNO) EXCEPT WHERE SLIF<br>ARE REQUIRED AND NOTED BY A325(SC) ON THE  | ° CRITICAL CONNECTIONS   |  |  |  |
| IENTS, FASTENERS AND OTHER ACCESSORIES<br>FACTURER FOR A COMPLETE FRAMING SYSTEM.   | 4.   | FULL DEPTH CONNECTIONS ARE TO BE USED ON A CONNECTIONS TO COLUMNS. BOLTS TO BE AT 3"   |  |  |  |  |
| D FOUNDATIONS, WOOD PLATES AND OTHER<br>S REQUIRED. SECURELY ANCHOR STUDS IN<br>TON AND OVERHEAD STRUCTURE. PROVIDE   | 5. PROVIDE A MINIMUM 3/8" THICK FULL DEPTH THRU-PLATE FOR ALL PIPE<br>AND TUBE COLUMN CONNECTIONS. |  |  |  |  |  |
| RING VERTICAL STUDS MEET FLOOR OR ROOF<br>/ 3/4" OF VERTICAL DEFLECTION AT SLIP JOINTS.   |  | 6. DESIGN CONNECTIONS FOR THE MINIMUM SHEAR CAPACITIES NOTED IN<br>THE AISC BEAM TABLES, OR FOR THE REACTIONS SHOWN ON THE DRAWINGS,<br>WHICHEVER IS GREATER.                      |  |  |  |  |
| RM STEEL CONNECTIONS SHALL BE MADE WITH<br>PPROPRIATE LENGTH UNLESS OTHERWISE<br>RATION OF JOINED MATERIAL SHALL NOT BE<br>DS.  | 7.   | ALL WELDING SHALL CONFORM TO AWS DI.I-LAT  | EST EDITION. ELECTRODES  |  |  |  |
| OUM WALLBOARD TO STUDS AND JOISTS   | 8.   | ALL ALUMINUM AND STEEL MEMBERS TO BE TREA<br>TO PREVENT GALVANIC AND CORROSIVE EFFECTS   |  |  |  |  |
|   | 9.   | SUBMIT ALL STEEL SHOP DRAWINGS FOR APPROV  | AL PRIOR TO ANY FABRICATION.                                   |  |  |  |
| ALL OPENINGS LARGER THAN STUD SPACING.<br>SHALL BE 18 GAUGE x 2" WIDE STEEL STRAPS  | 10.  | STEEL FABRICATOR IS SOLELY RESPONSIBLE FOR<br>OF EXISTING CONDITIONS INCLUDING, BUT NOT LI<br>ELEVATION, AND DIMENSIONS OF EXISTING WALLS  | MITED TO THE LOCATION,   |  |  |  |
| RD BRIDGING CHANNELS. BRACING SHALL BE<br>T 4'-0" O.C. MAX. FOR THE FULL HEIGHT OF ALL<br>ITIL PERMANENT FACING MATERIAL (GYPSUM  | 11.  | SPANDREL ANGLE TO BE ADJUSTABLE. SHIP ANGLI<br>LINE IN FIELD FOR VERTICAL AND HORIZONTAL ALI   | E LOOSE AND SET WITH STRING                                    |  |  |  |
| NSTALLED. ALL STRAPS SHALL BE SECURELY<br>. MEMBER AT EACH END CAPABLE OF RESISTING<br>RCES. BRACES ARE TO BE INSTALLED ON BOTH<br>IOTED OTHERWISE AND ATTACHED TO ALL LOAD |  | ERECTED TO A MAXIMUM TOLERANCE OF 1/4" (HO<br>AND MUST BE SET PLUMB PRIOR TO STUD ERECT<br>MUST BE INSTALLED IN ONE LENGTH PER BAY (SEE  | ON BY STEEL ERECTOR. ANGLE                                     |  |  |  |
| K MUST BE ANCHORED TO A COMMON STRUCTURAL   | 12.  | THERE SHALL BE NO FIELD CUTTING OF STRUCTUR<br>WORK OF OTHER TRADES WITHOUT THE PRIOR AP<br>PROFESSIONAL.  |  |  |  |  |
| APY REACING BLOCKING STRAPPING AND WER  | 13.  | FABRICATE BEAMS WITH THE NATURAL CAMBER U  | Ρ.   |  |  |  |
| ARY BRACING, BLOCKING, STRAPPING AND WEB<br>STALLED PRIOR TO LOADING OF ANY STRUCTURAL  | 14.  | ALL STEEL NOT RECEIVING FIREPROOFING SHALL E   | BE PAINTED WITH THE  |  |  |  |
| HT GAUGE STEEL FRAMING IN ACCORDANCE WITH<br>R WELDING SHEET STEEL IN STRUCTURES).  |  | FABRICATOR'S RUST INHIBITIVE PRIMER. ALL STEE<br>SHALL BE PAINTED WITH RUST INHIBITIVE PRIMER<br>DIPPED GALVANIZED AS INDICATED ON THE DRAW  | AND TOP COATED OR HOT  |  |  |  |
| RAMING MEMBERS WITH SAWS OR SHEARS. FLAME   | META   | L DECKING  |  |  |  |  |
|   | ۱.   | METAL DECKING SHALL CONFORM TO THE FOLLOV  | VING DESIGNATIONS:<br>3, GRADE 33                              |  |  |  |
| FOREST PRODUCTS ASSOCIATION (NFPA)<br>FION FOR WOOD CONSTRUCTION" (LATEST EDITION).   | 2.   | METAL DECK SHALL CONFORM TO AISI'S "SPECIFI<br>DESIGN OF COLD FORMED STEEL STRUCTURAL ME<br>"DESIGN MANUAL FOR THE FLOOR AND ROOF DEC<br>"MANUAL OF CONSTRUCTION WITH STEEL DECK". | EMBERS", TO SDI'S  |  |  |  |
| GROUP I APA RATED SHEATHING, MINIMUM SPAN<br>4 PLY, EXPOSURE I. USE 3/4" NOMINAL THICKNESS<br>E TONGUE AND GROOVE PLYWOOD GLUED AND   | 3.   | WELDING SHALL CONFORM TO AWS DI.3 "STRUC<br>CODE – SHEE STEEL".  | TURAL WELDING  |  |  |  |
| DINTS. NAILING/SCREWING SHALL COMPLY WITH APA<br>D DIAPHRAGMS.  | 4.   | SPECIFIED ROOF DECK HAS BEEN DESIGNED TO B<br>3 SPANS MINIMUM. FOR ONE OR TWO SPAN CON<br>HEAVIER GAGE DECK AS REQUIRED TO SUPPORT A   | DITIONS, PROVIDE   |  |  |  |
|   | 5.   | METAL DECK SHALL HAVE THE FOLLOWING MINIMU<br>FOOT OF WIDTH:   |  |  |  |  |
|   |  | I 1/2" ROOF DECK, WIDE RIB, 20 GAGE:   |  |  |  |  |

I 1⁄2" ROOF DECK, WIDE RIB, 20 GAGE: I = 0.22 IN4, S = 0.25 IN3

- FASTEN ROOF DECK PANELS TO SUPPORTING STEEL MEMBERS WITH #12 TEK SCREWS AT 12" O.C. (36/4 PATTERN). FASTEN TO PERIMETER STEEL MEMBERS AT 12" O.C.
- 9. MECHANICALLY FASTEN ROOF DECK SIDE LAPS WITH SELF DRILLING NO. 10 SCREWS AT MIDSPAN OR 36" (MAX) O.C.

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**RENOVATION & ADDITION** 

STRUCTURAL NOTES

**S001** 

**IBC SPECIAL INSPECTION** 

- SPECIAL INSPECTIONS AND TESTS SHALL BE IN CONFORMANCE WITH IBC CHAPTER 17 "STRUCTURAL TESTS AND SPECIAL INSPECTIONS". SUCH TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT APPROVED AGENCY EMPLOYED BY THE OWNER. THE AGENCY SHALL NOTIFY THE ARCHITECT PROMPTLY OF IRREGULARITIES OR DEFICIENCIES OBSERVED IN THE WORK AND PROVIDE WRITTEN REPORTS OF EACH INSPECTION AND TEST.
- FABRICATOR INSPECTION: WHERE FABRICATION OF LOAD-BEARING MEMBERS AND ASSEMBLIES (SUCH AS STRUCTURAL STEEL, LIGHT-GAGE STEEL TRUSSES, WOOD TRUSSES, PRECAST CONCRETE, ETC.) IS PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION SHALL BE PROVIDED TO VERIFY FABRICATION AND QUALITY CONTROL PROCEDURES, IN ACCORDANCE WITH IBC SECTION 1704.2.
- STEEL CONSTRUCTION: SPECIAL INSPECTIONS SHALL CONFORM TO IBC SECTION 1704.3 AND TABLE 1704.3 "REQUIRED VERIFICAION AND INSPECTION OF STEEL CONSTRUCTION." STEEL CONSTRUCTION INCLUDES STRUCTURAL STEEL, STEEL JOISTS AND JOIST GIRDERS, STEEL FLOOR AND ROOF DECK, AND LIGHT-GAGE STEEL FRAMING, AND SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING (AS APPLICABLE). INSPECTION IS CONTINUOUS, UNLESS NOTED OTHERWISE.
  - A. PERIODIC MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS
  - AND WASHERS. INSPECT HIGH-STRENGTH BOLTING (SLIP-CRITICAL CONNECTIONS) IN В. ACCORDANCE WITH RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
  - C. PERIODICALLY INSPECT HIGH-STRENGTH BOLTING (BEARING-TYPE CONNECTIONS) IN ACCORDANCE WITH RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
  - D. INSPECT COMPLETE AND PARTIAL PENETRATION GROOVE WELDS, MULTIPASS FILLET WELDS, AND SINGLE-PASS FILLET WELDS > 5/16". IN ADDITION TO VISUAL INSPECTION, FIELD WELDED CONNECTIONS SHALL BE INSPECTED AND TESTED ACCORDING TO AWS DI.I
  - E. PERIODICALLY INSPECT SINGLE PASS FILLET WELDS 5/16" AND SMALLER, AND FLOOR AND ROOF DECK WELDS. IN ADDITION TO VISUAL INSPECTION, FIELD WELDED CONNECTIONS SHALL BE INSPECTED AND TESTED ACCORDING TO AWS DI.I.
  - F. PERIODICALLY INSPECT REINFORCING STEEL WELDING TO STRUCTURAL STEEL. IN ADDITION TO VISUAL INSPECTION, FIELD WELDED CONNECTIONS SHALL BE INSPECTED AND TESTED ACCORDING TO AWS DI.I. G. PERIODICALLY INSPECT STEEL FRAME JOINT DETAILS.
  - H. PERIODICALLY INSPECT WELDING OF LIGHT-GAGE FRAMING.

PROVIDE ADDITIONAL SPECIAL SEISMIC AND WIND INSPECTIONS AND TESTS AS APPLICABLE.

CONCRETE CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS SHALL CONFORM TO IBC SECTION 1704.4 AND TABLE 1704.4 "REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION", AND SHALL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING (AS APPLICABLE). INSPECTION IS CONTINUOUS, UNLESS NOTED OTHERWISE.

- A. PERIODICALLY INSPECT PLACEMENT OF REINFORCING STEEL PRIOR TO
- CONCRETE PLACEMENT. B. INSPECT ANCHOR BOLTS/RODS INSTALLED PRIOR TO OR DURING CONCRETE PLACEMENT.
- C. PERIODICALLY VERIFY USE OF REQUIRED DESIGN MIX FOR ELEMENT
- BEING PLACED. D. SAMPLING FRESH CONCRETE: ASTM C172, EXCEPT MODIFIED FOR SLUMP TO COMPLY WITH ASTM C94
  - I. SLUMP: ASTM CI43; ONE TEST AT POINT OF DISCHARGE FOR EACH DAY'S POUR OF EACH TYPE OF CONCRETE; ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED. MAXIMUM SLUMP:
    - A. RAMPS, SLABS, WALLS & FOUNDATIONS: 3" B. CONCRETE CONTAINING HIGH-RANGE WATER-REDUCING ADMIXTURE (SUPERPLASTICIZER): 8"
  - 2. AIR CONTENT: ASTM C173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C231,
  - PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; ONE FOR EACH DAY'S POUR OF EACH TYPE OF AIR-ENTRAINED CONCRETE. CONCRETE TEMPERATURE: ASTM C1064; ONE TEST HOURLY WHEN THE AIR TEMPERATURE IS 40 DEGREES (F) AND BELOW, WHEN 80 DEGREES (F) AND ABOVE, AND ONE TEST FOR EACH SET OF COMPRESSIVE STRENGTH SPECIMENS.

- 4. COMPRESSION TEST SPECIMEN: ASTM C31; ONE SET OF FOUR TEST SPECIMENS ARE REQUIRED. REQUIRED.
- LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED. PERIODICALLY INSPECT FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURES AND TECHNIQUES.

PROVIDE ADDITIONAL SPECIAL SEISMIC AND WIND INSPECTIONS AND TESTS AS APPLICABLE.

- MASONRY CONSTRUCTION: SPECIAL INSPECTIONS AND EVALUATION SHALL CONFORM TO IBC SECTION 1704.5 AND TABLE 1704.5.1 "LEVEL 1 SPECIAL INSPECTION", FOR BUILDING CATEGORY CLASSIFICATIONS I, II AND III. INSPECTIONS AND EVALUATIONS SHALL INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING. INSPECTIONS ARE CONTINUOUS UNLESS NOTED OTHERWISE.
  - A. TESTING FREQUENCY: TESTS AND EVALUATIONS LISTED SHALL BE WALL AREA OR PORTION THEREOF. B. MORTAR PROPERTIES SHALL BE TESTED PER PROPERTY SPECIFICATION
  - OF ASTM C270. C. MORTAR COMPOSITION AND PROPERTIES SHALL BE EVALUATED PER
  - ASTM C780. D. GROUT SHALL BE SAMPLED AND TESTED FOR COMPRESSIVE STRENGTH PER ASTM CI019.
  - PERIODICALLY VERIFY PROPORTIONS OF SITE-PREPARED MORTAR, E.
  - F. PERIODICALLY VERIFY SIZE AND LOCATION OF STRUCTURAL ELEMENTS.
  - PRIOR TO GROUTING, PERIODICALLY VERIFY CLEAN GROUT SPACES, G.
  - TENDONS AND ANCHORAGES, AND CONSTRUCTION OF MORTAR JOINTS. BONDED TENDONS.
  - OBSERVE PREPARATION OF GROUT AND MORTAR SPECIMENS, AND PRISMS.
  - J. PRE-CONSTRUCTION TESTING:
  - UNIT INDICATED, TEST UNITS PER ASTM C67.
  - AND MOISTURE CONTENT PER ASTM C140.
  - AT 28 DAYS.

K. EVALUATION OF QUALITY CONTROL TESTS: IN THE ABSENCE OF OTHER INDICATIONS OF NON-COMPLIANCE WITH REQUIREMENTS, MASONRY SHALL BE CONSIDERED SATISFACTORY IF RESULTS FROM CONSTRUCTION QUALITY CONTROL TESTS COMPLY WITH MINIMUM REQUIREMENTS INDICATED. VERIFY WELDING OF REINFORCING BARS. L.

PROVIDE ADDITIONAL SPECIAL SEISMIC AND WIND INSPECTIONS AND TESTS AS APPLICABLE.

STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST, UNLESS NOTED OTHERWISE. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS EXCEPT WHEN FIELD CURED

COMPRESSIVE STRENGTH TESTS: ASTM C39; ONE SET FOR EACH 100 CUBIC YARDS FOR WALL AND SLAB MIXES; ONE SET FOR EACH 25 CUBIC YARDS OF FOOTING MIX PLACED IN ANY ONE DAY; ONE SPECIMEN TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS, AND ONE SPECIMEN RETAINED IN RESERVE FOR LATER TESTING IF

E. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, CONDUCT TESTING FROM AT

INSPECT CONCRETE PLACEMENT PROCEDURES FOR PROPER TECHNIQUES.

PERFORMED DURING CONSTRUCTION FOR EACH 5000 SQUARE FEET OF

CONSTRUCTION OF MORTAR JOINTS, LOCATION OF REINFORCEMENT AND CONNECTORS, PRESTRESSING TECHNIQUE, MATERIALS AND DEVICES. ANCHORAGE DETAILS, REINFORCEMENT DETAILS, COLD AND HOT WEATHER. PROTECTION, AND PRESTRESSING FORCE APPLICATION AND MEASUREMENT. PLACEMENT OF REINFORCEMENT, CONNECTORS AND PRESTRESSING

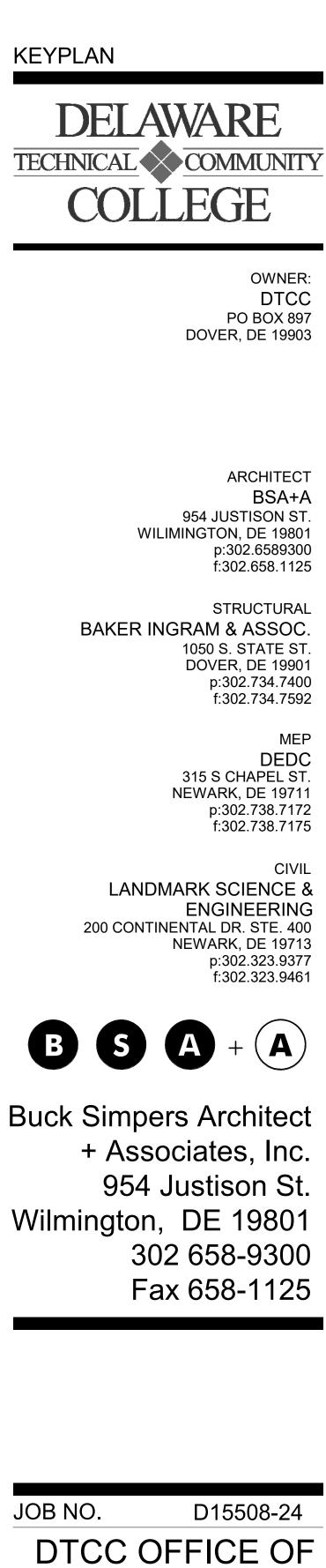
H. VERIFY GROUT PLACEMENT TECHNIQUES, AND GROUTING OF PRESTRESSING

I. CLAY MASONRY UNIT TEST: FOR EACH DIFFERENT CLAY MASONRY CONCRETE MASONRY UNIT TEST: FOR EACH DIFFERENT CONCRETE MASONRY UNIT INDICATED, TEST UNITS FOR STRENGTH, ABSORPTION,

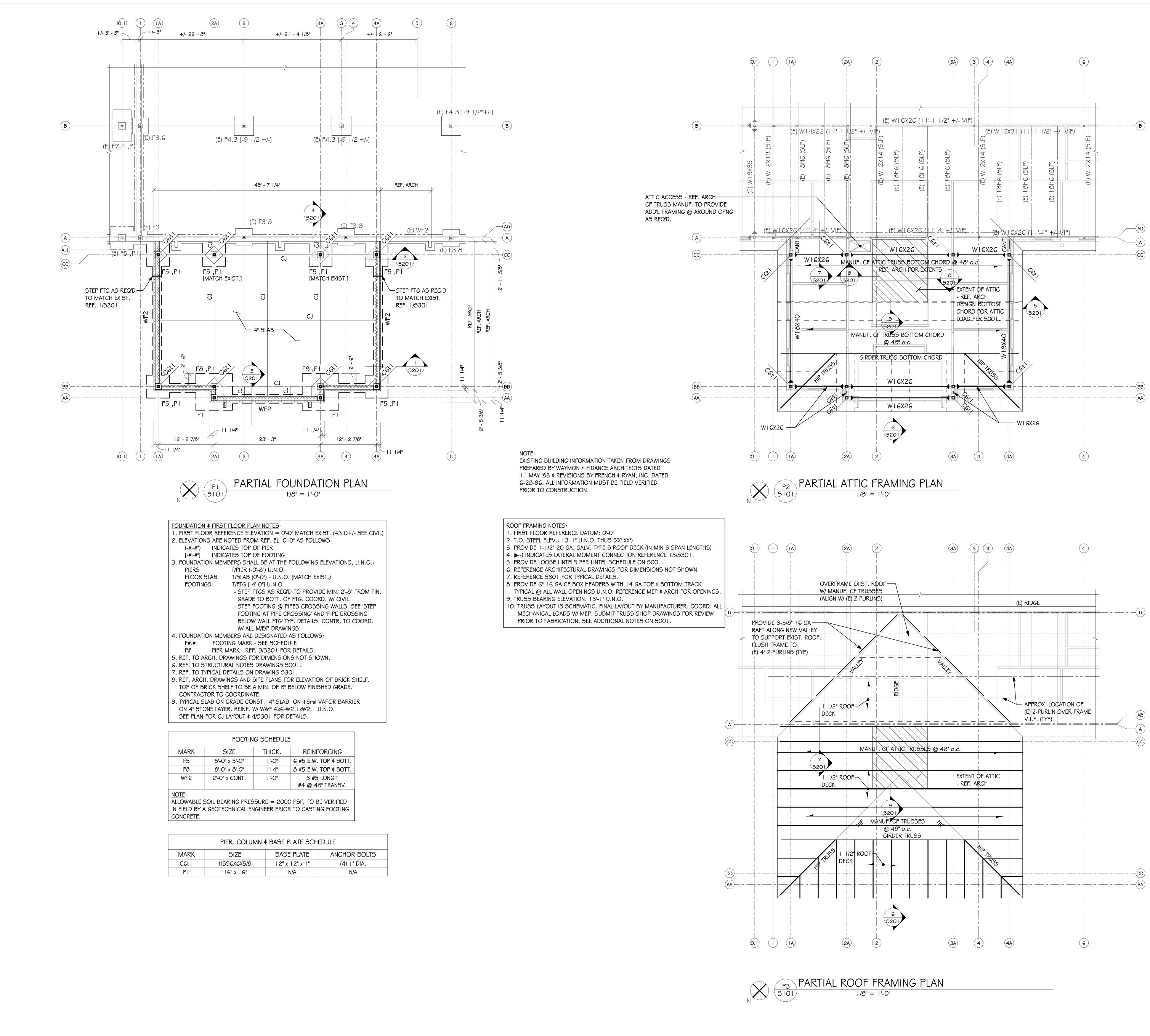
PRISM TEST: FOR EACH TYPE OF WALL CONSTRUCTION INDICATED, TEST MASONRY PRISMS PER ASTM E447, METHOD B. PREPARE ONE SET OF PRISMS FOR TESTING AT 7 DAYS AND ONE SET FOR TESTING

- 6. <u>SOILS</u>: SPECIAL INSPECTIONS SHALL CONFORM TO IBC SECTION 1704.7. INSPECTIONS AND TESTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING. THE APPROVED AGENCY SHALL PROVIDE A QUALIFIED GEOTECHNICAL CONSULTANT.
  - A. SUBGRADE PROOFROLLING VERIFICATION
  - PROPER FILL MATERIALS AND PLACEMENT PERFORM FIELD IN-PLACE DENSITY TESTS ACCORDING TO ASTM DI556 (SAND CONE METHOD), ASTM D2167 (RUBBER BALLOON METHOD), OR ASTM D2937 (DRIVE CYLINDER METHOD), AS
  - APPLICABLE. D. FOOTING SUBGRADE: AT FOOTING SUBGRADES, PERFORM AT LEAST ONE TEST OF EACH SOIL STRATUM TO VERIFY DESIGN BEARING CAPACITIES. SUBSEQUENT VERIFICATION AND APPROVAL OF OTHER FOOTING SUBGRADES MAY BE BASED ON A VISUAL COMPARISON OF EACH SUBGRADE WITH RELATED TESTED STRATA WHEN ACCEPTABLE TO THE ARCHITECT.
  - E. PAVED AND BUILDING SLAB AREAS: AT SUBGRADE AND AT EACH COMPACTED FILL AND BACKFILL LAYER, PERFORM AT LEAST ONE FIELD IN-PLACE DENSITY TEST FOR EVERY 2000 SQUARE FEET OR LESS OF PAVED AREA OR BUILDING SLAB, BUT IN NO CASE FEWER THAN THREE TESTS.
  - F. FOUNDATION WALL BACKFILL: IN EACH COMPACTED BACKFILL LAYER, PERFORM AT LEAST ONE FIELD IN-PLACE DENSITY TEST FOR EACH 100 FEET OR LESS OF WALL LENGTH, BUT NO FEWER THAN TWO TESTS ALONG A WALL FACE.
  - G. TRENCH BACKFILL: IN EACH COMPACTED INITIAL AND FINAL BACKFILL LAYER, PERFORM AT LEAST ONE FIELD IN-PLACE DENSITY TEST FOR EACH 150 FEET OR LESS OF TRENCH, BUT NO FEWER THAN TWO TESTS
  - H. WHEN TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS ARE BELOW SPECIFIED DENSITY, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO THE DEPTH REQUIRED, RE-COMPACT AND RE-TEST UNTIL REQUIRED DENSITY IS OBTAINED.

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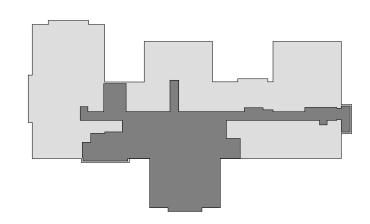






| PIER, COLUMN & BASE PLATE SCHEDULE |            |               |       |
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| MARK                               | SIZE       | BASE PLATE    | ANCHO |
| C6t1                               | HSS6X6X5/8 | 2" x  2" x  " | (4)   |
| PI                                 | 16" x 16"  | N/A           | N     |
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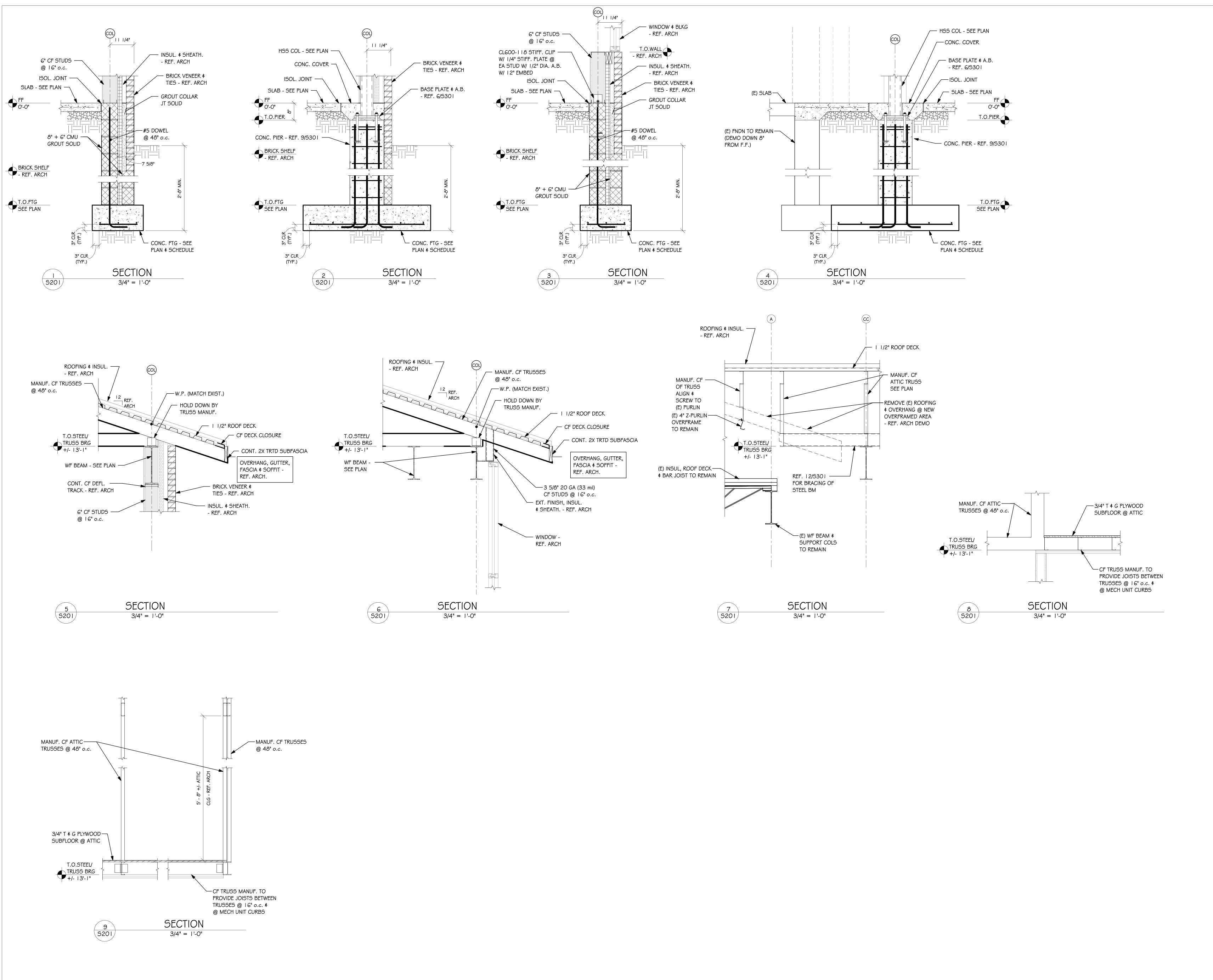
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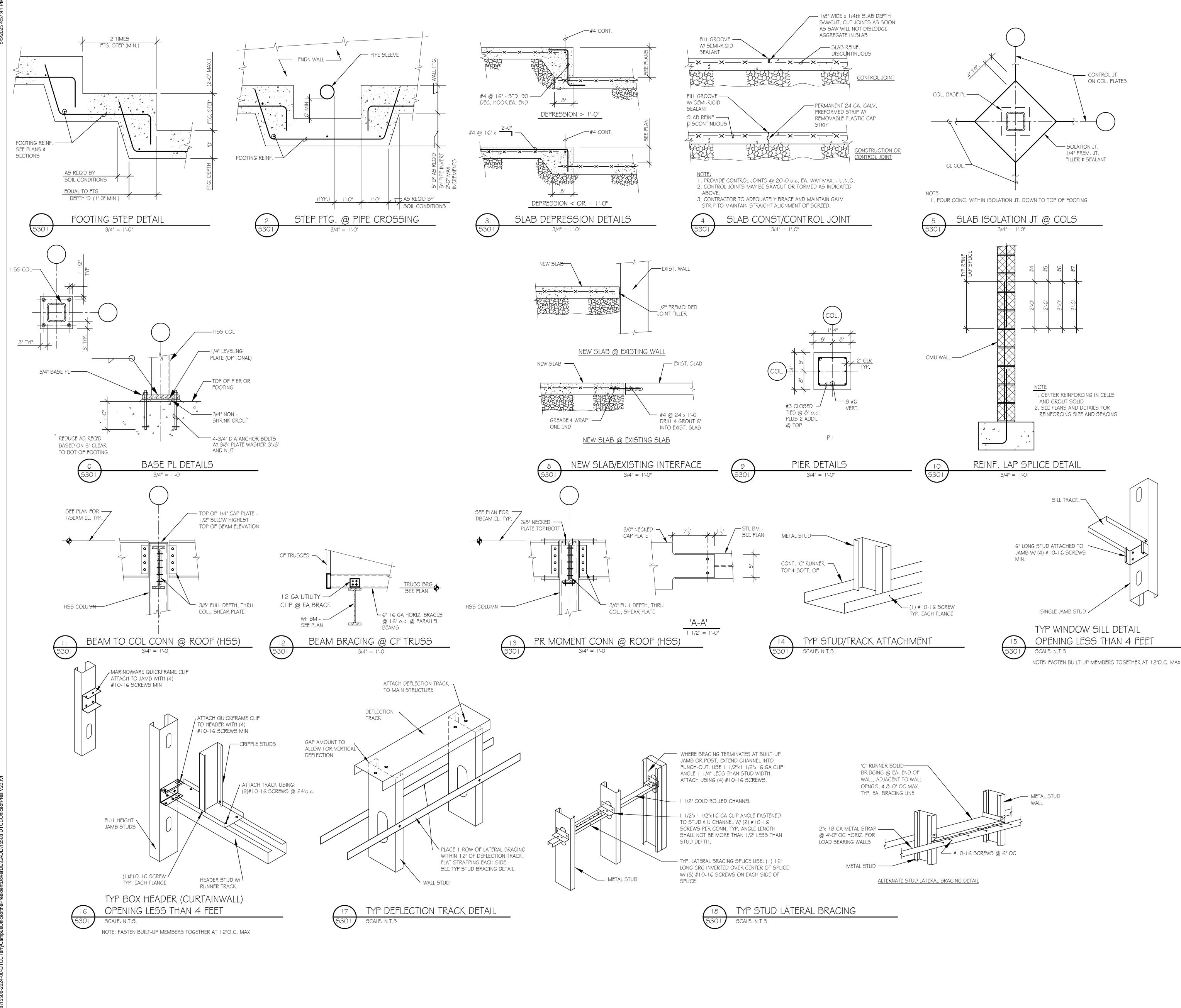
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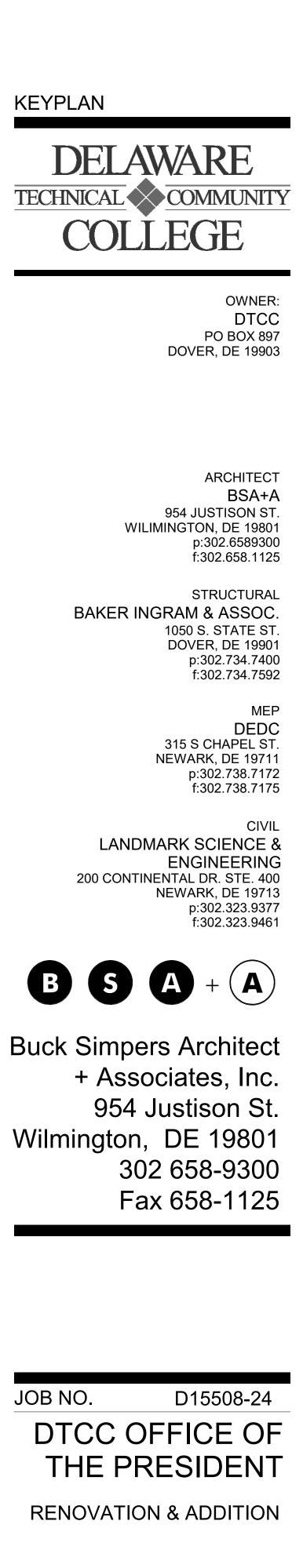
**SECTIONS & DETAILS** 

**S201** 

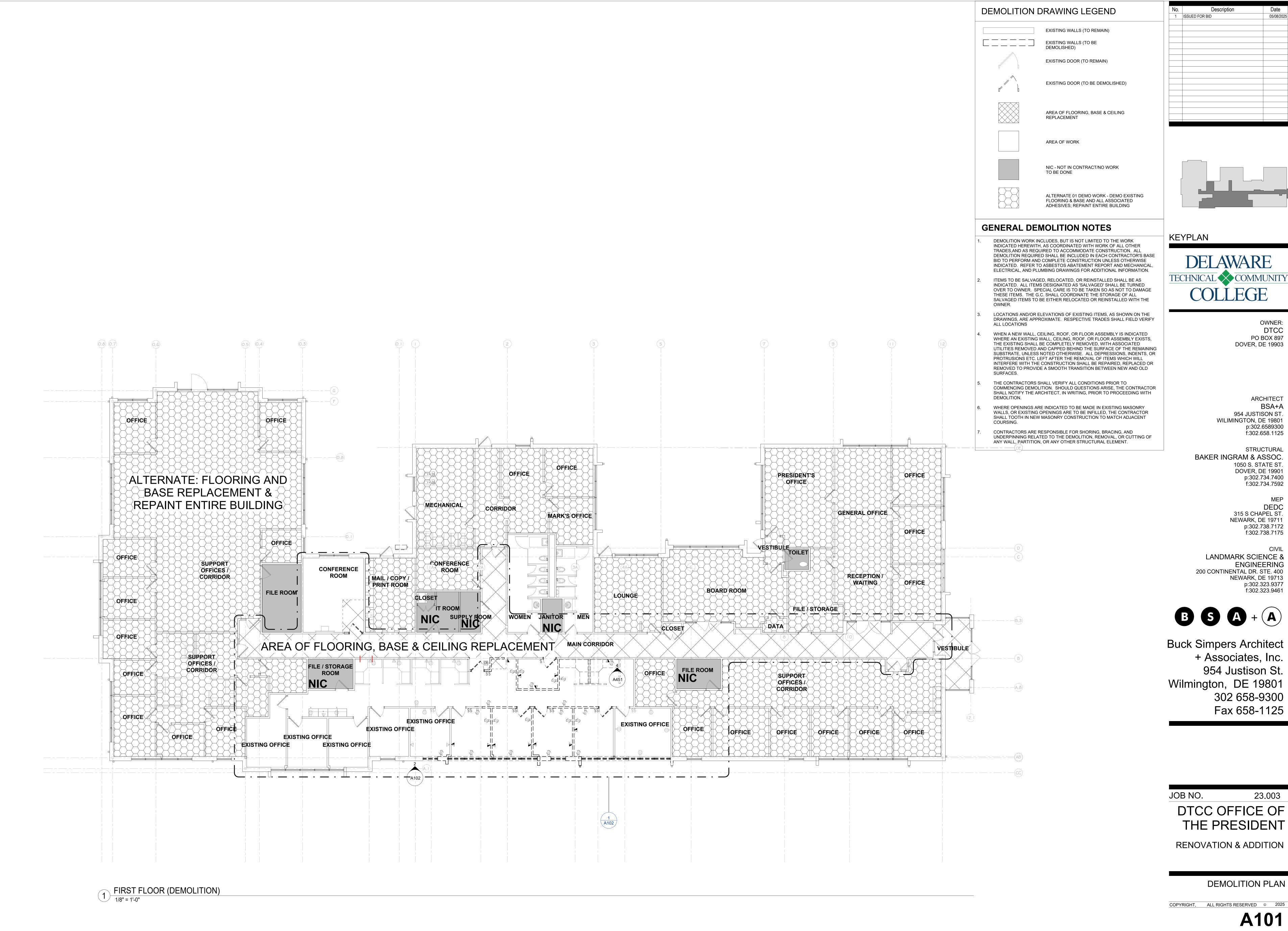


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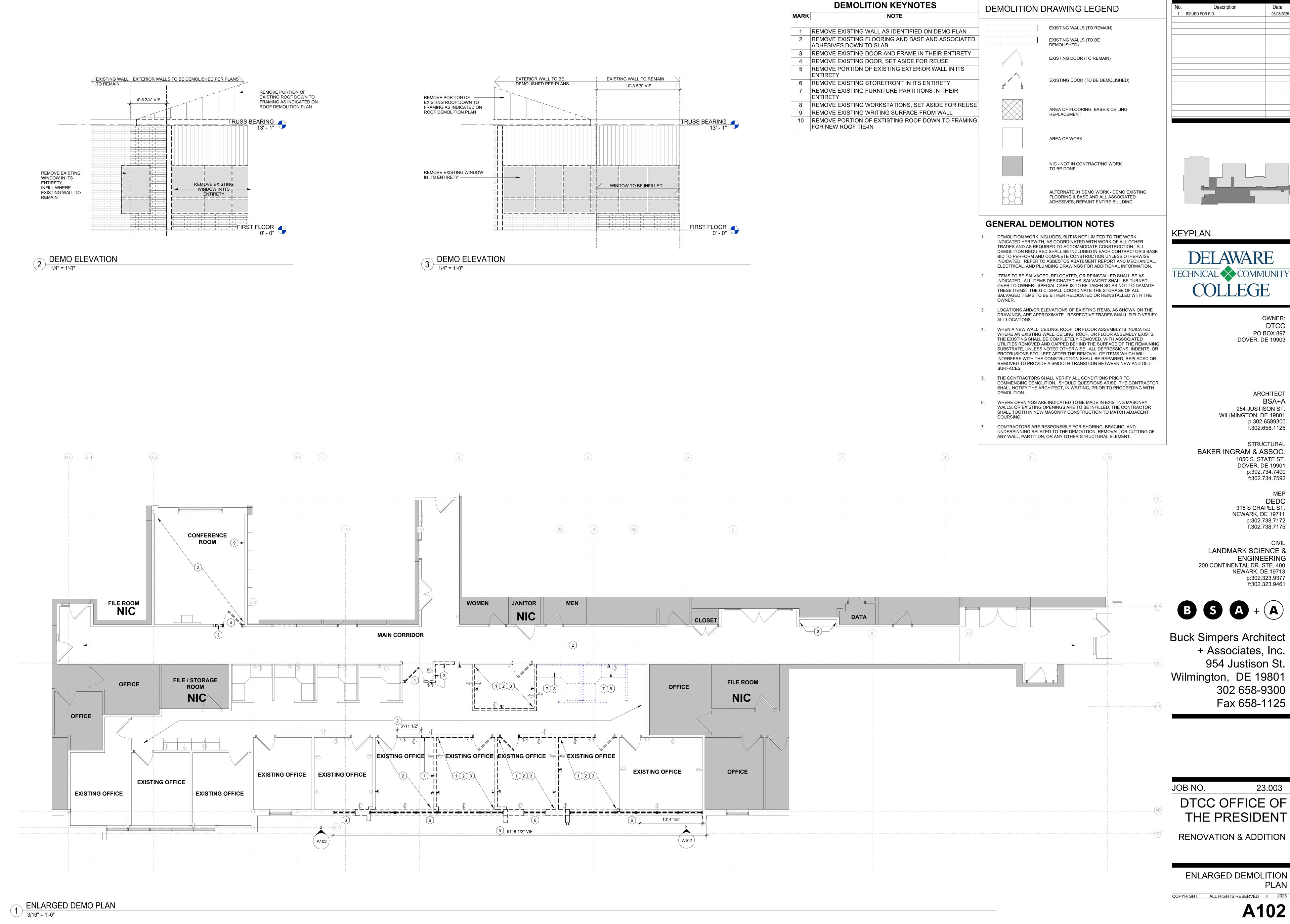


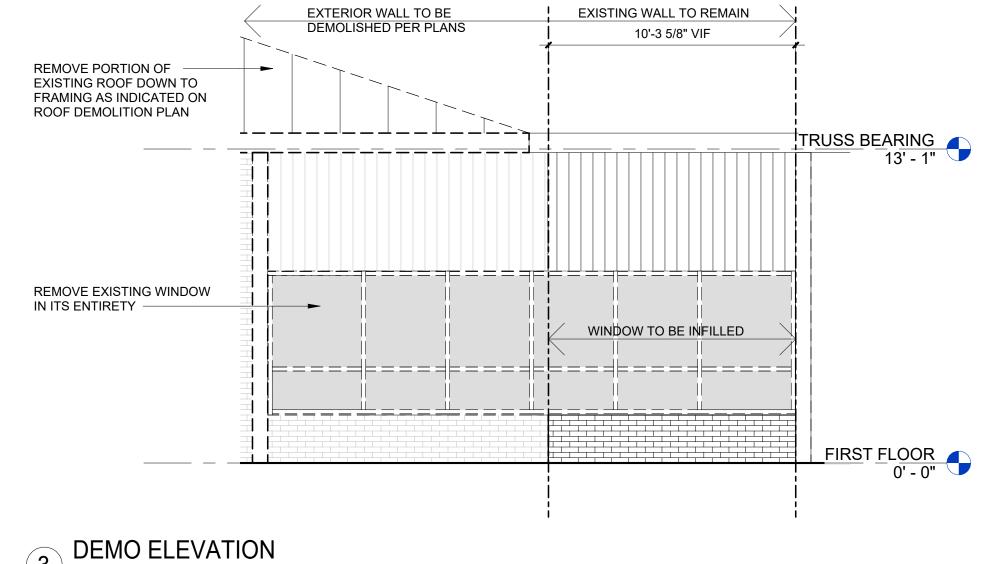
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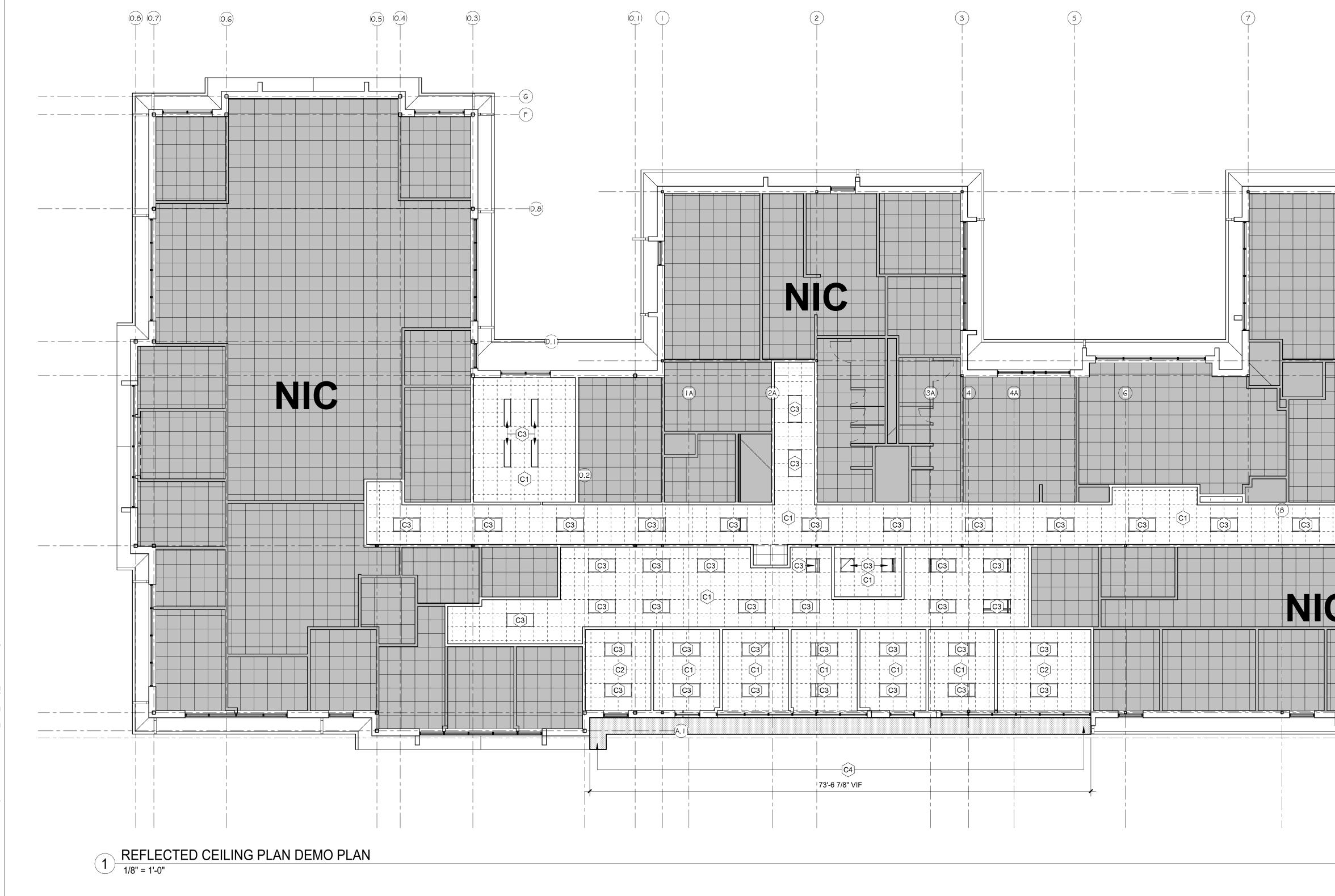


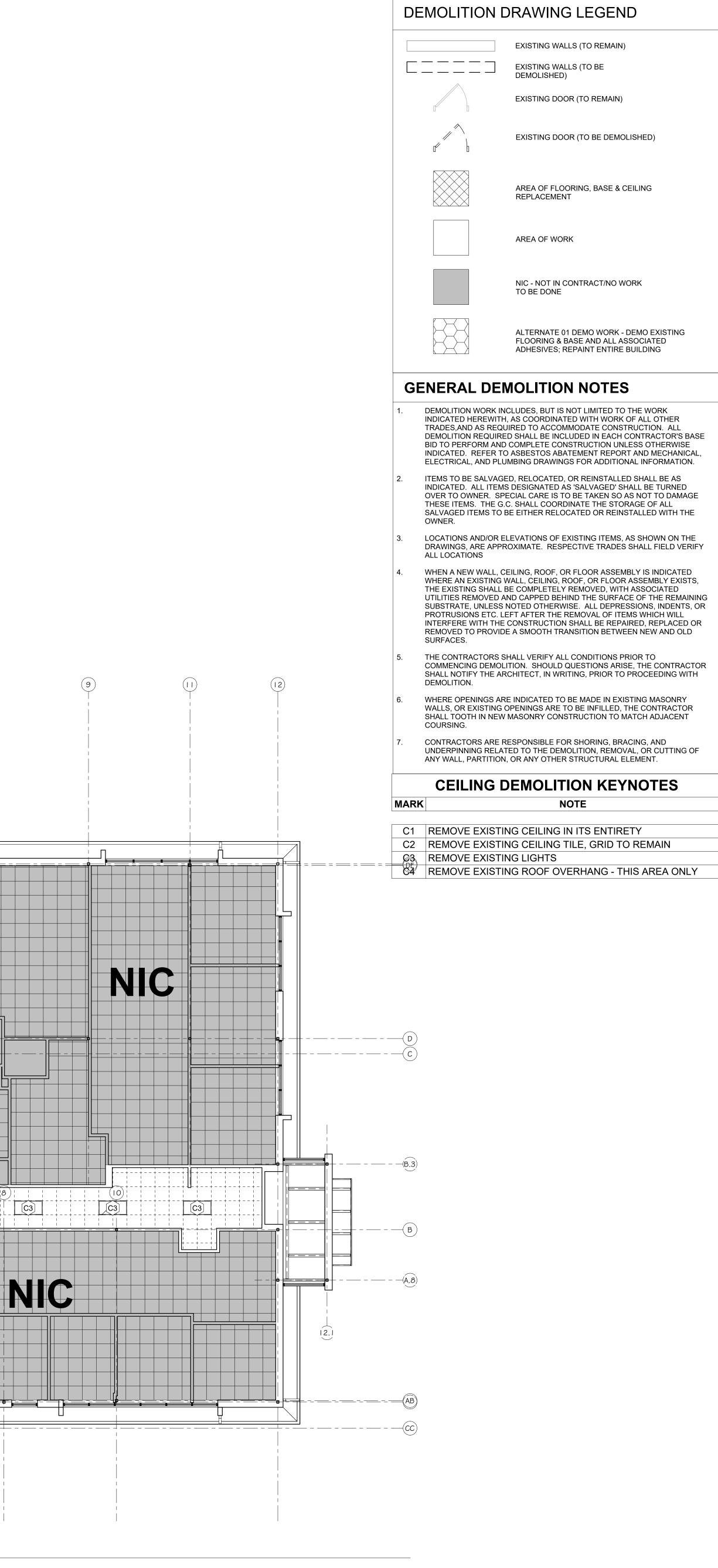


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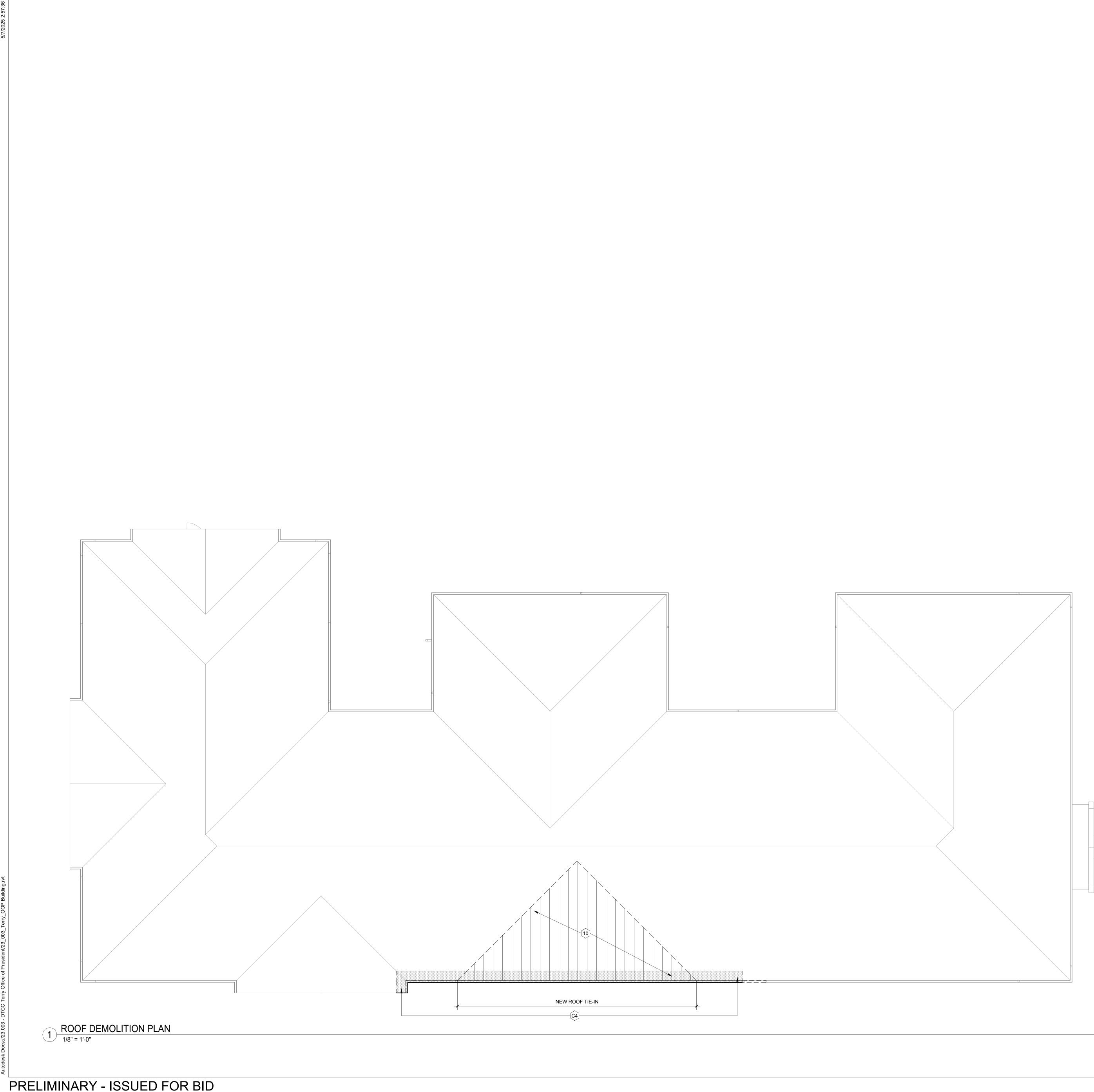
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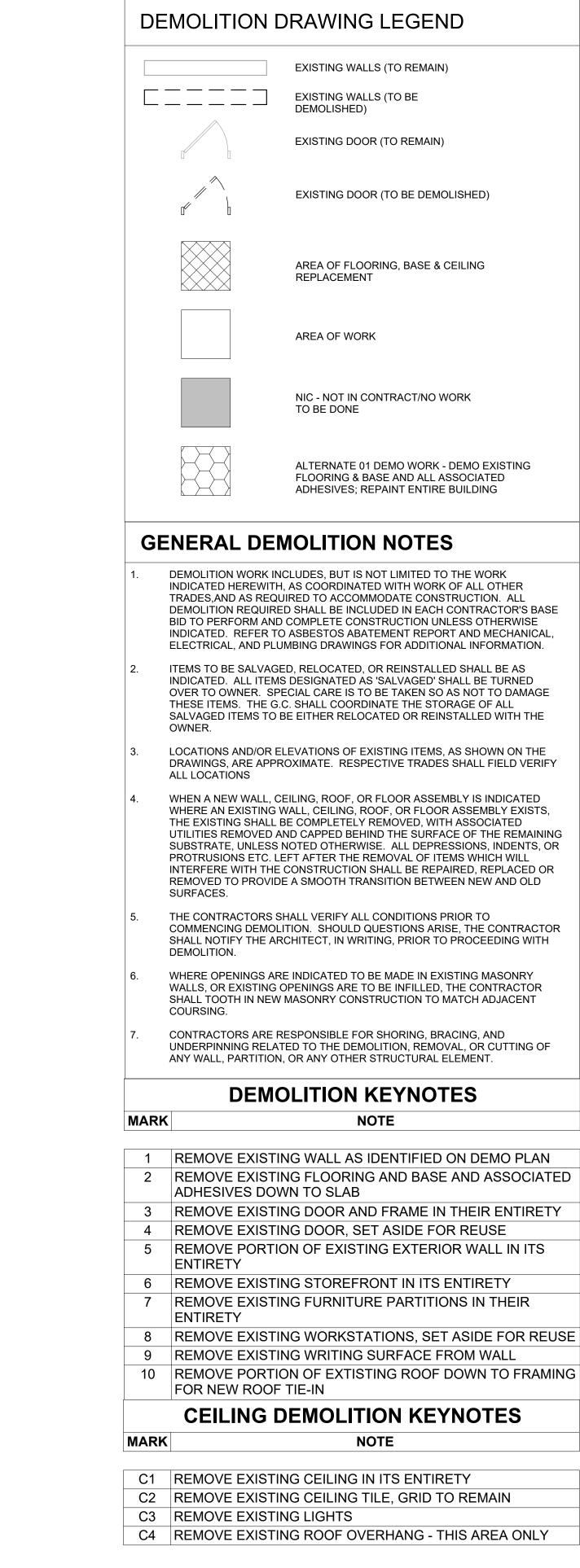
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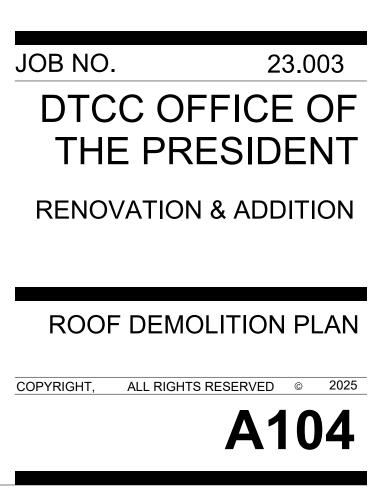
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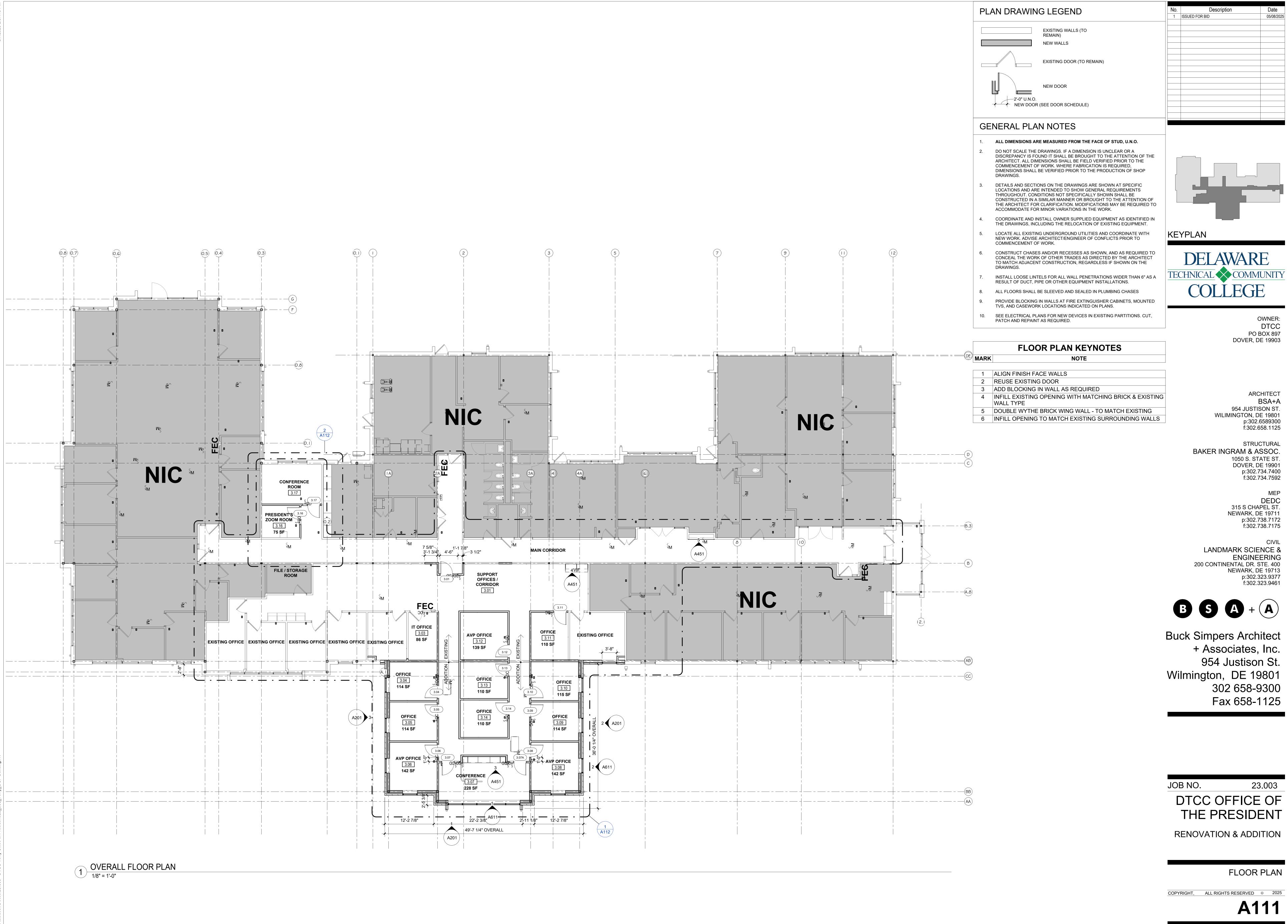
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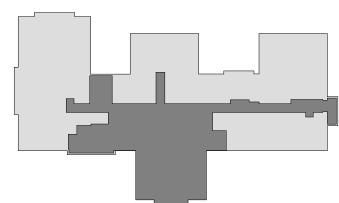




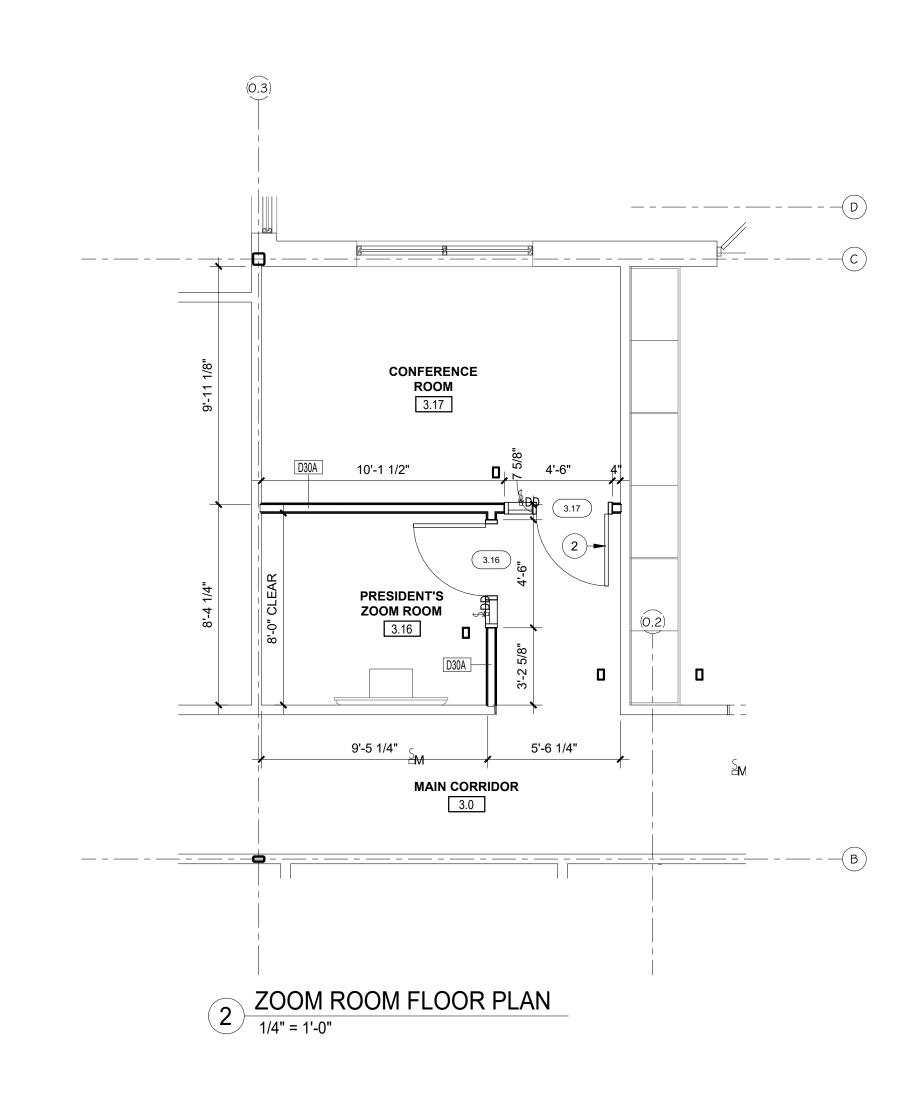


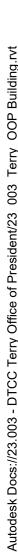


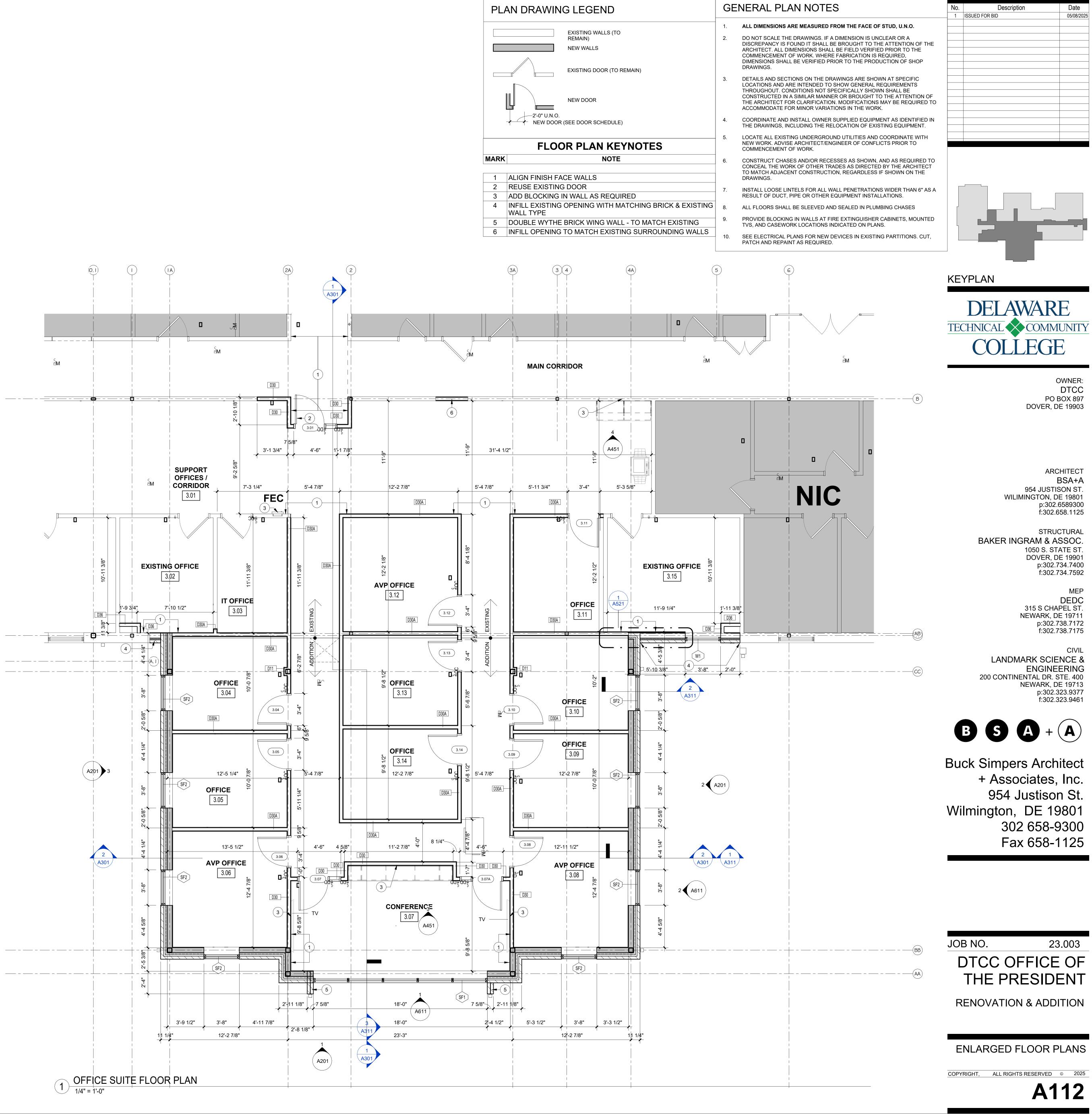
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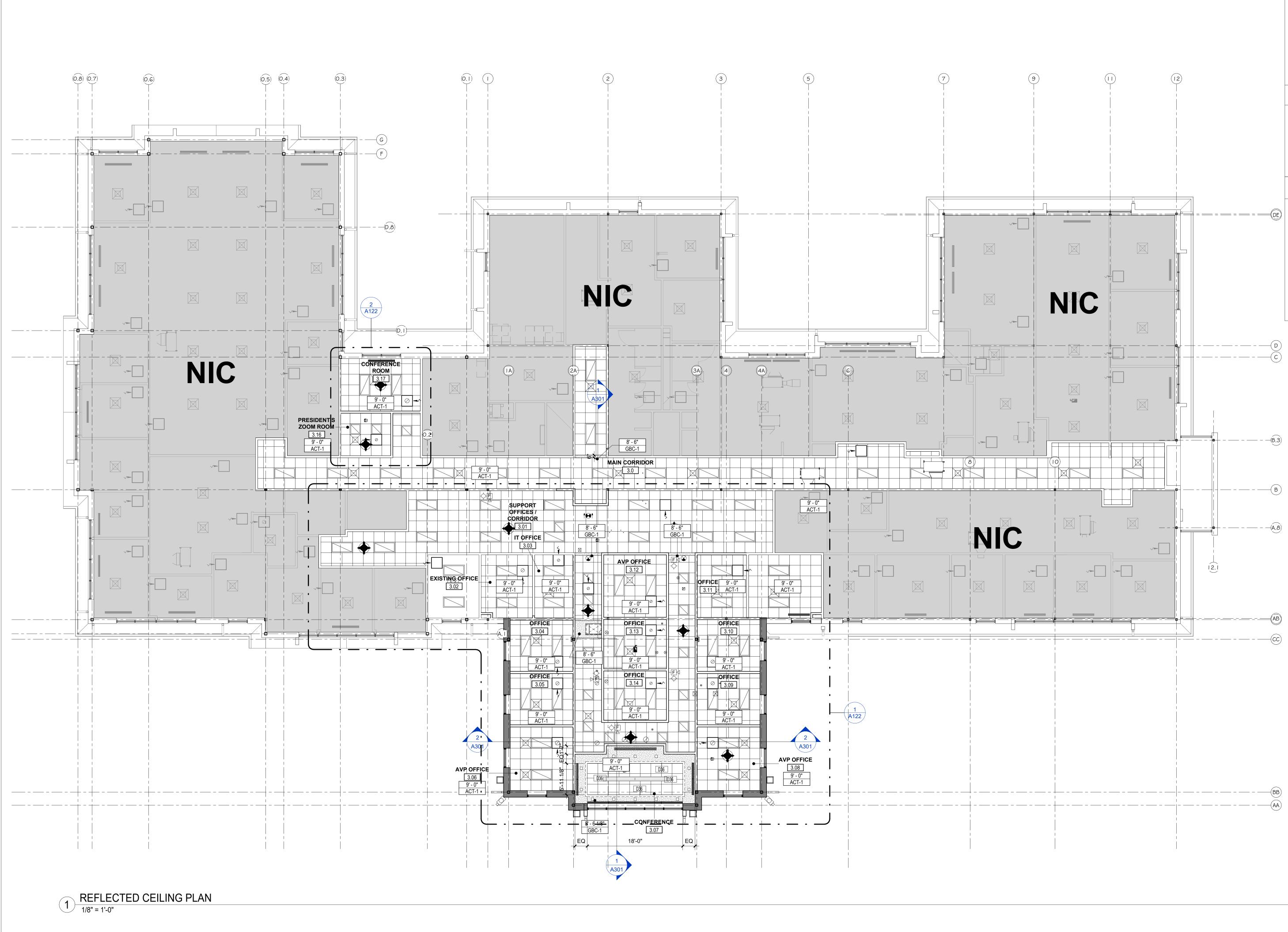


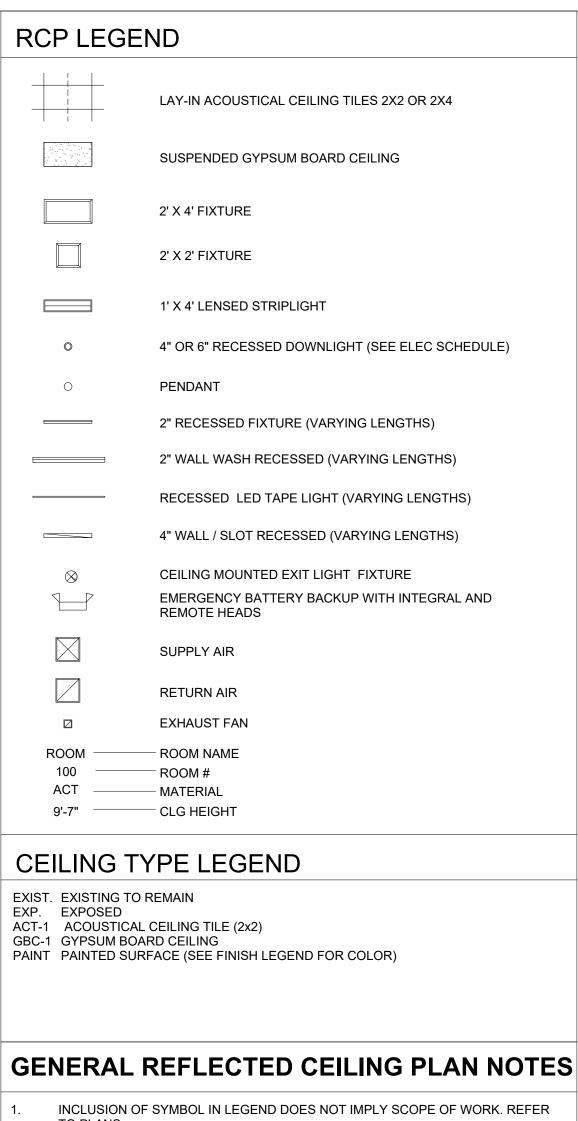




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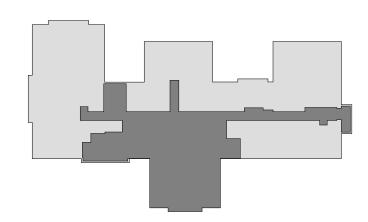




- TO PLANS.
- CONTRACTORS SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF FIXTURES AND OTHER CEILING DEVICES.
- REFER TO M/E/P DRAWINGS FOR SIZES, TYPES, QUANTITIES AND INSTALLATION REQUIREMENTS OF FIXTURES AND CEILING DEVICES.
- WHERE CEILING HEIGHTS ARE BELOW WINDOW HEADS THE CONTRACTOR SHALL PROVIDE FASCIA MOLDING OR TRIM TO MATCH SIZE AND COLOR OF CEILING TRIM, UNLESS NOTED OTHERWISE.

COORDINATE ALL AUDIO AND VISUAL DEVICES WITH A/V DRAWINGS. A/V EQUIPMENT SHOWN HERE, INCLUDING PROJECTORS AND PROJECTION SCREENS ARE DIAGRAMMATIC AND ARE SHOWN HERE TO DEPICT ADJACENCIES WITH OTHER LIGHTING AND CEILING DEVICES.

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OWNER: DTCC PO BOX 897 DOVER, DE 19903

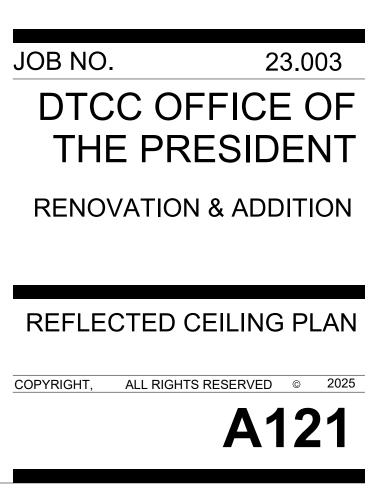
ARCHITECT BSA+A 954 JUSTISON ST. WILIMINGTON, DE 19801 p:302.6589300 f:302.658.1125

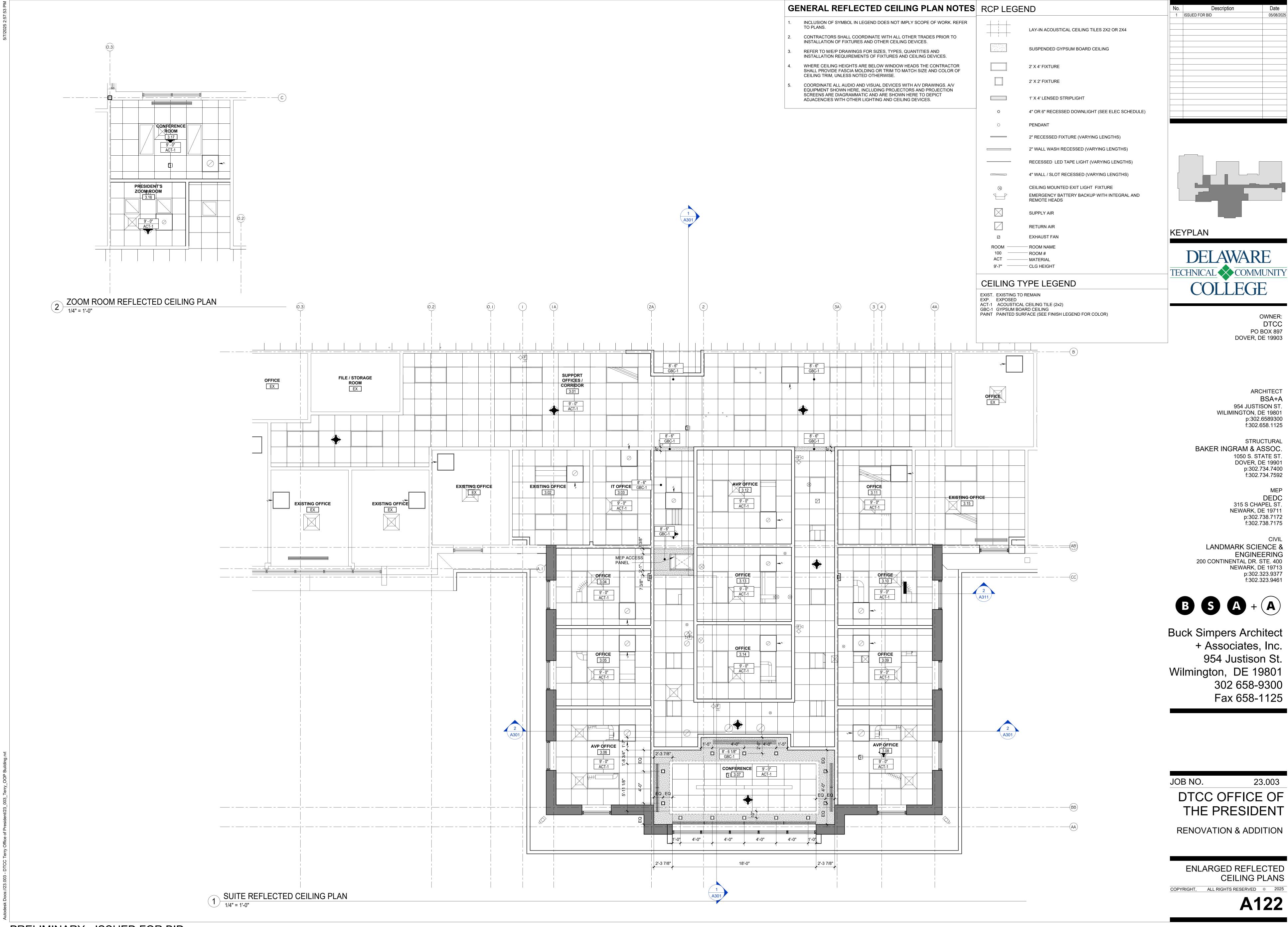
STRUCTURAL BAKER INGRAM & ASSOC 1050 S. STATE ST. DOVER, DE 19901 p:302.734.7400 f:302.734.7592

> MEP DEDC 315 S CHAPEL ST. NEWARK, DE 19711 p:302.738.7172 f:302.738.7175

CIVIL LANDMARK SCIENCE & ENGINEERING 200 CONTINENTAL DR. STE. 400 NEWARK, DE 19713 p:302.323.9377 f:302.323.9461

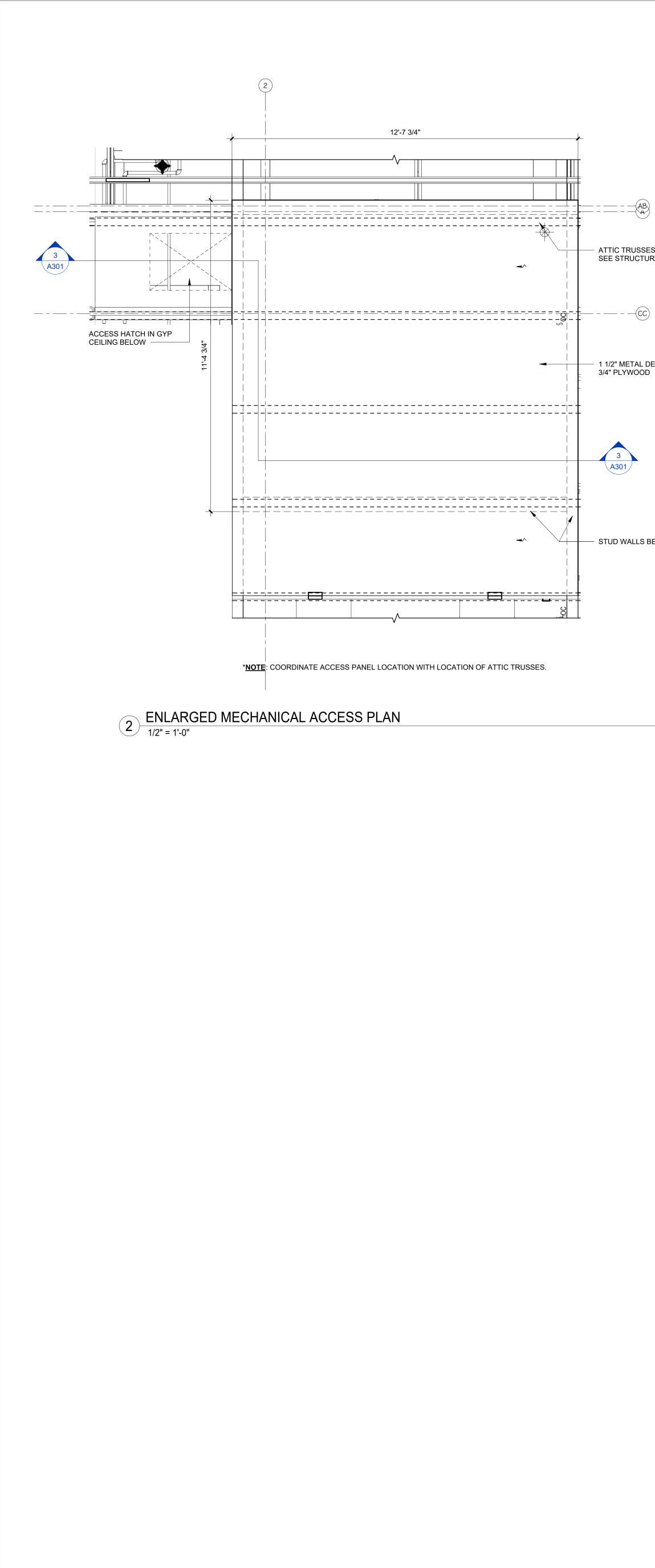






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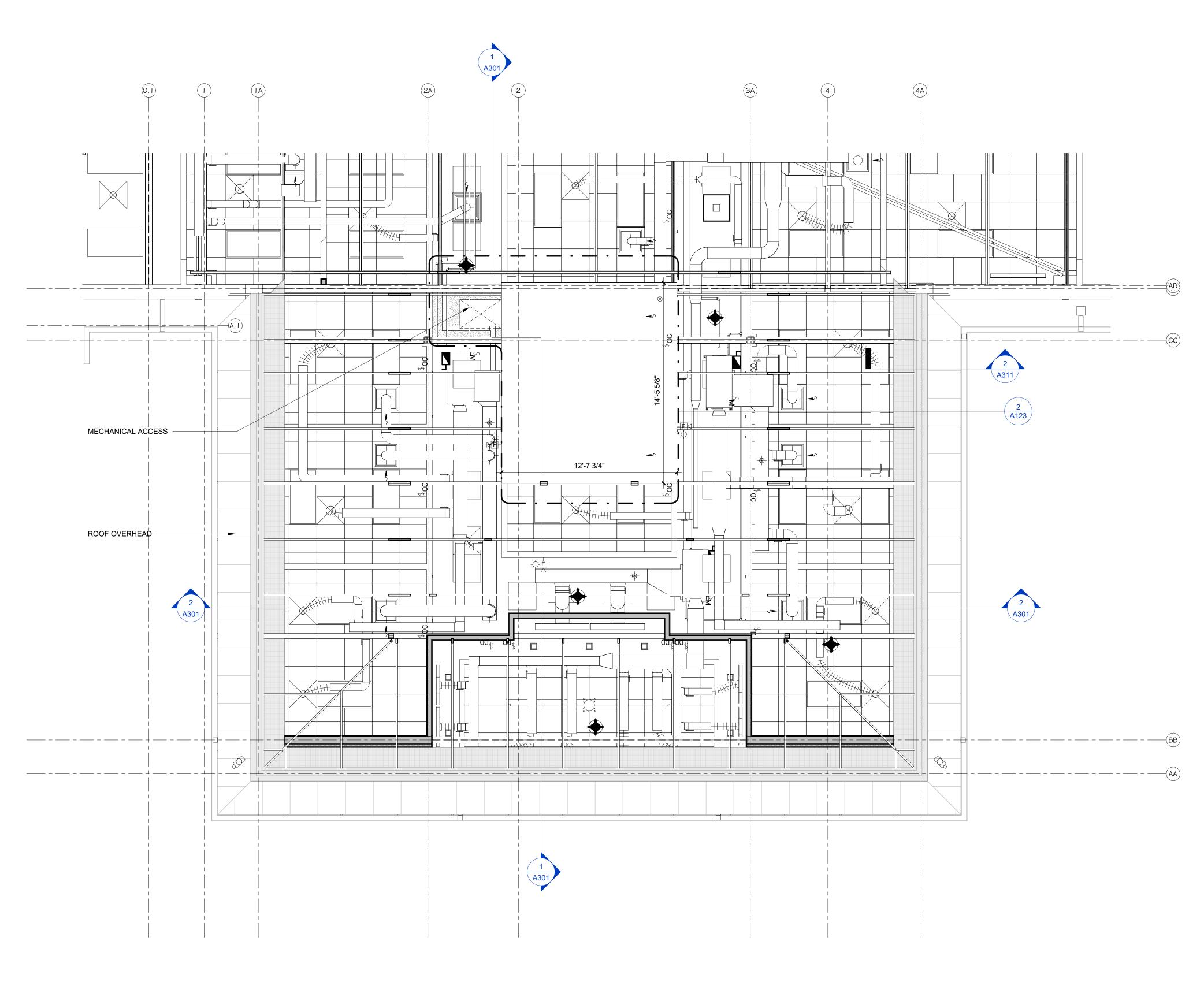


PRELIMINARY - ISSUED FOR BID

### ATTIC TRUSSES ABOVE, SEE STRUCTURAL

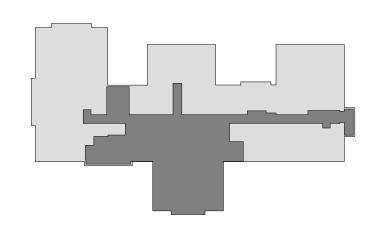
— 1 1/2" METAL DECK 3/4" PLYWOOD

— STUD WALLS BELOW



1 MECHANICAL ACCESS PLATFORM 1/4" = 1'-0"

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OWNER DTCC PO BOX 897 DOVER, DE 19903

ARCHITECT BSA+A 954 JUSTISON ST. WILIMINGTON, DE 19801 p:302.6589300 f:302.658.1125

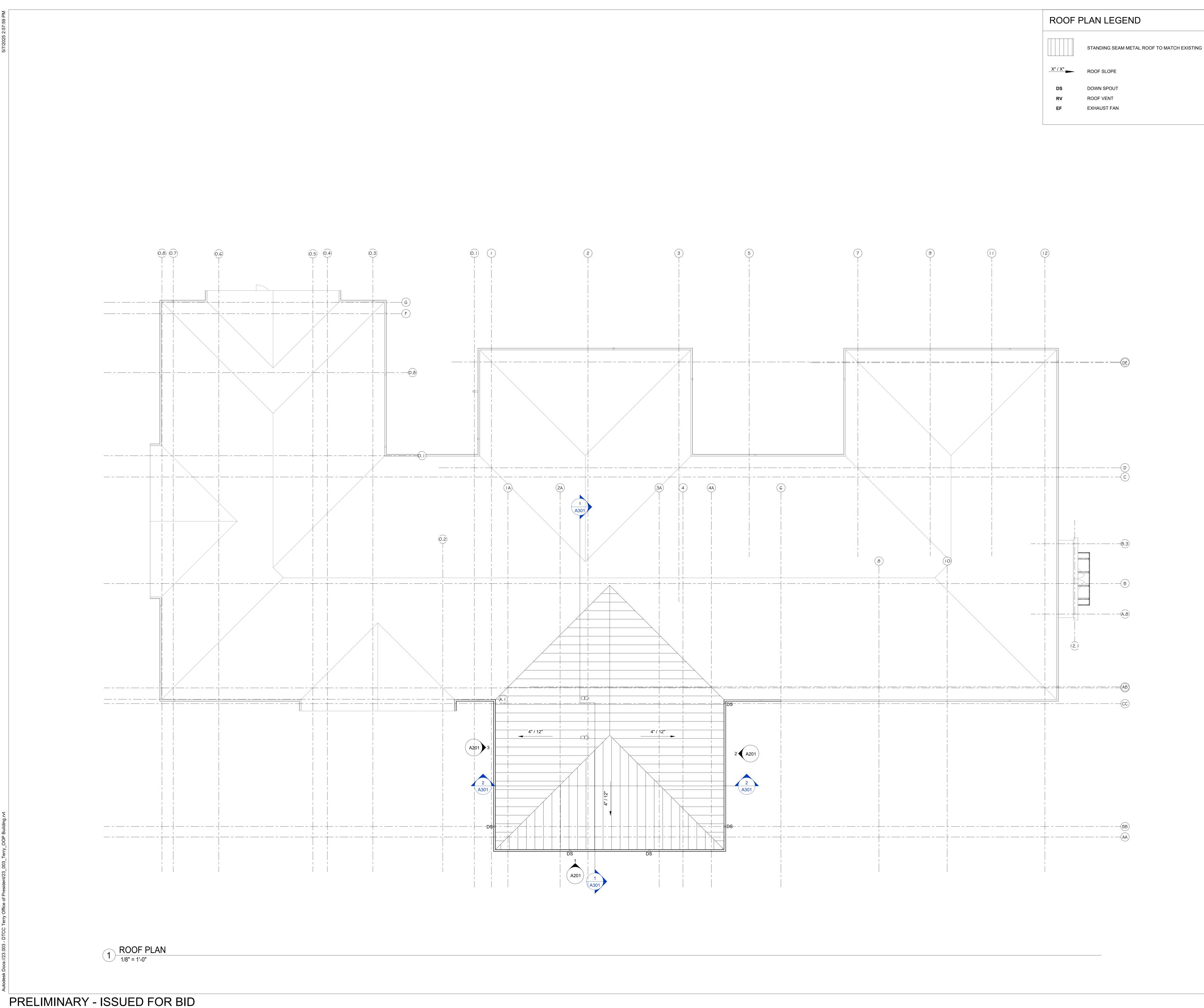
STRUCTURAL BAKER INGRAM & ASSOC. 1050 S. STATE ST. DOVER, DE 19901 p:302.734.7400 f:302.734.7592

> MEP DEDC 315 S CHAPEL ST. NEWARK, DE 19711 p:302.738.7172 f:302.738.7175

CIVIL LANDMARK SCIENCE & ENGINEERING 200 CONTINENTAL DR. STE. 400 NEWARK, DE 19713 p:302.323.9377 f:302.323.9461



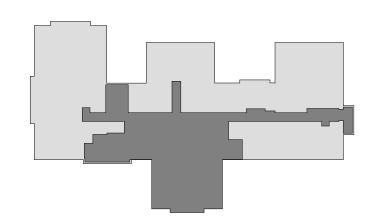




### ROOF PLAN LEGEND



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OWNER: DTCC PO BOX 897 DOVER, DE 19903

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STRUCTURAL BAKER INGRAM & ASSOC. 1050 S. STATE ST. DOVER, DE 19901 p:302.734.7400 f:302.734.7592

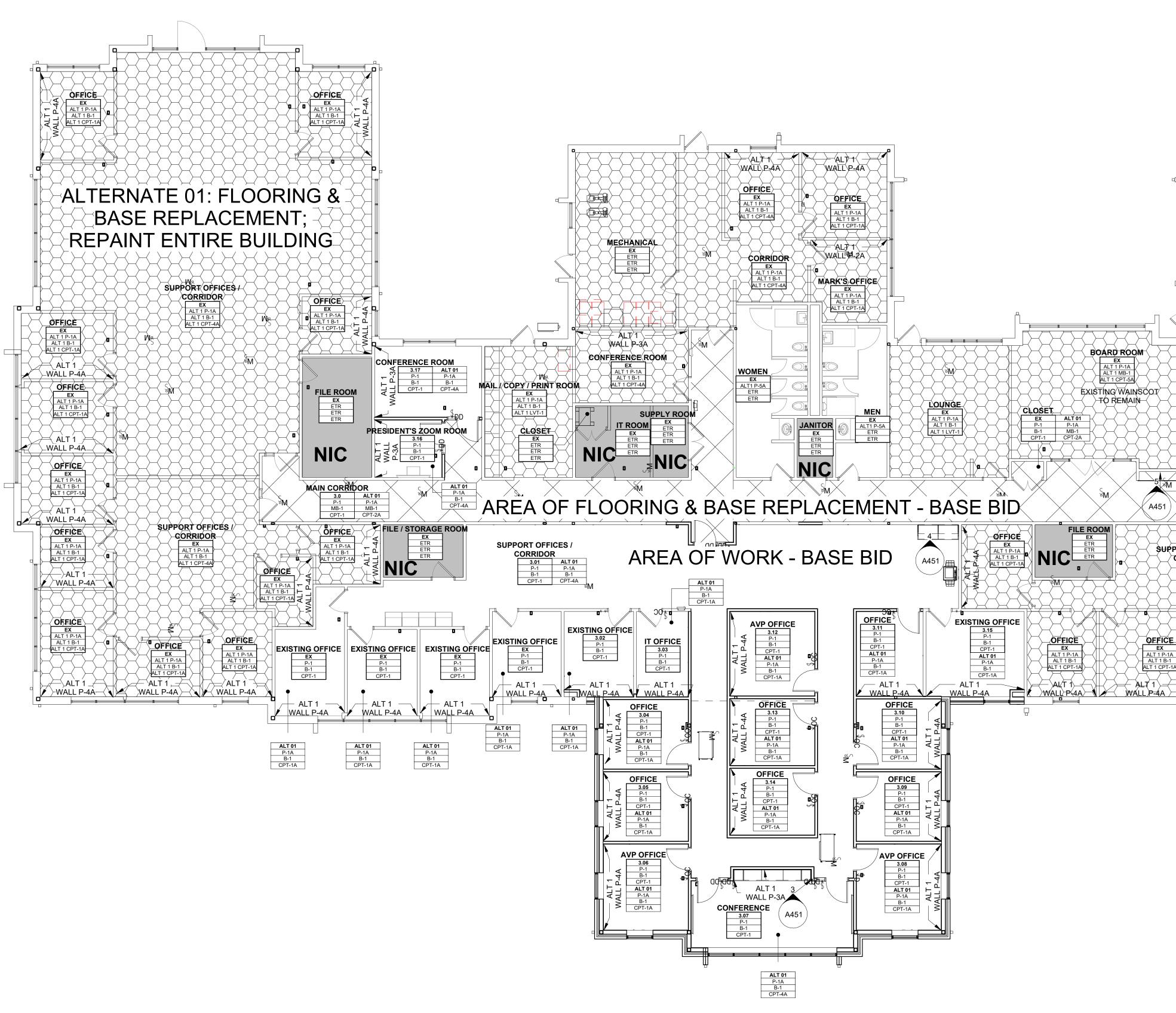
> ME DEDC 315 S CHAPEL ST. NEWARK, DE 19711 p:302.738.7172 f:302.738.7175

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**B S A** + **A** 







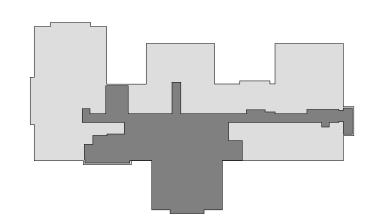
1 FIRST FLOOR FINISH PLAN 1/8" = 1'-0"

|                 |                                 |                  | FINISH M               | ATERIALS S                    | CHEDU      |
|-----------------|---------------------------------|------------------|------------------------|-------------------------------|------------|
|                 |                                 |                  | DESCRIPTION            |                               |            |
| MARK            | MATERIAL                        | MANUFACTURER     | SERIES/PATTERN         | COLOR                         | DIMENSIONS |
|                 | CARPET TILE                     |                  | CROSS WEAVE TILE 5T526 | NATIVE 25105                  |            |
| CPT-1<br>CPT-1A |                                 | SHAW CONTRACT    |                        |                               | 18" X 36"  |
| SPI-1A          | ALTERNATE 01 CARPET TILE        | SHAW CONTRACT    | ESSENCE TILE 5T618     | ANTHRACITE<br>PALLADIUM 18580 | 24" X 24"  |
| CPT-2A          | ALTERNATE 01 CARPET TILE        | SHAW CONTRACT    | METAL EDGE TILE 5T620  | LAZURITE SILVER 18496         | 24" X 24"  |
| CPT-3           | WALK-OFF CARPET TILE            | SHAW CONTRACT    | PORTAL TILE 5T035      | EBONY 34500                   | 24" X 24"  |
| CPT-3A          | <b>ALTERNATE 01 CARPET TILE</b> | SHAW CONTRACT    | PORTAL TILE 5T035      | NAVY 34485                    | 24" X 24"  |
| CPT-4A          | ALTERNATE 01 CARPET TILE        | SHAW CONTRACT    | ESSENCE TILE 5T618     | LAZURITE SILVER 18496         | 24" X 24"  |
| CPT-5A          | ALTERNATE 01 CARPET TILE        | SHAW CONTRACT    | METAL EDGE TILE 5T620  | ANTHRACITE<br>PALLADIUM 18580 | 24" X 24"  |
| LVT-1           | LUXURY VINYL TILE               | SHAW CONTRACT    | CAST 5.0 MM 4098V      | SUMMIT 98420                  | 24" X 24"  |
| B-1             | RESLIENT BASE                   | TBD              | TBD                    | TBD                           | -          |
| MB-1            | MILLWORK BASE                   | TBD              | твр                    | TBD                           | -          |
| P-1             | PAINT                           | SHERWIN WILLIAMS | -                      | ALABASTER SW 7008             | -          |
| P-1A            | PAINT                           | SHERWIN WILLIAMS | -                      | PURE WHITE SW 7005            | -          |
| P-2             | PAINT                           | SHERWIN WILLIAMS | -                      | TBD                           | -          |
| P-2A            | PAINT                           | SHERWIN WILLIAMS | -                      | CITYSCAPE SW 7067             | -          |
| P-3A            | PAINT                           | SHERWIN WILLIAMS | -                      | INDIGO BATIK SW 7602          | -          |
| P-4A            | PAINT                           | SHERWIN WILLIAMS | -                      | GRAY MATTERS SW 7066          | ) -        |
| P-5A            | PAINT                           | SHERWIN WILLIAMS | -                      | ALABASTER SW 7008             |            |
| PL-1            | PLASTIC LAMINATE                | WILSONART        | WOODGRAINS             | TBD                           | -          |
| PL-2            | PLASTIC LAMINATE                | WLSONART         | TBD                    | TBD                           | -          |
| SS-1            | SOLID SURFACE                   | WILSONART        | GROUP 5                | TBD                           | -          |
| SS-2            | SOLID SURFACE                   | WILSONART        | GROUP 5                | TBD                           | -          |

| JLE   | GENERAL FINISH PLAN NOTES   |
|---|---|
| IS       REMARKS         OFFICES AND MAIN CORRIDOR BASE BID. INSTALLATION: ASHLAR         OFFICES ALT-1. INSTALLATION: ASHLAR         MAIN CORRIDOR ALT-1. INSTALLATION: MONOLITHIC         VESTIBULES ONLY. INSTALLATION: MONOLITHIC         VESTIBULES ONLY ALT-1         CONFERENCE ROOMS & OPEN OFFICE AREAS ALT-1         BOARD ROOM ONLY ALT-1                                    | <ol> <li>ALL FINISHES TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.</li> <li>DOOR JAMBS AND METAL TRIM TO BE PAINTED WITH SEMI-GLOSS PAINT.</li> <li>FLOOR PATTERNS TO BE CENTERED IN ROOM, TYP.</li> <li>ALL CARPET PILE TO BE MAX 1/2" IN HEIGHT. PROVIDE METAL FLOOR TRANSITION AS<br/>NEEDED WHERE MATERIAL THICKNESSES VARY; PROFILE AND FINISH TBD.</li> <li>ALTERNATE 01: FLOORING AND BASE REPLACEMENT; AND NEW WALL PAINT THROUGHOUT<br/>ENTIRE BUILDING.</li> <li>EXISTING WRITING SURFACES TO BE PROTECTED IN OFFICES, UNO ON DEMO DRAWINGS.<br/>CONTRACTOR TO PROTECT AND PAINT AROUND.</li> </ol> |
| LOUNGE AND MAIL/COPY/PRINT ROOM<br>WALL BASE THROUGHOUT BUILDING<br>MAIN CORRIDOR ONLY, ALTERNATE 01 PRESIDENT'S SUITE ONLY<br>BASE BID PAINT. EGGSHELL FINISH FOR WALLS, FLAT FINISH FOR GWB<br>CEILINGS<br>WALL PAINT THROUGHOUT BUILDING ALT-1. EGGSHELL FINISH FOR WALLS,<br>FLAT FINISH FOR GWB CEILINGS<br>DOOR FRAMES. SEMI-GLOSS FINISH<br>DOOR FRAMES ALT-1. SEMI-GLOSS FINISH | FINISH TAG EXAMPLE         ROOM NAME         ROOM #         WALLS         BASE         FLOOR         ACCENT WALL PAINT  |
| ACCENT WALL PAINT IN CONFERENCE ROOMS ALT-1<br>ACCENT WALL PAINT IN OFFICES ALT-1<br>BATHROOMS ONLY ALT-1<br>CASEWORK<br>IN SUITE PRINT AREA COUNTER<br>WINDOW SILLS<br>CONFERENCE ROOM COUNTERS  |   |

| PRESIDENT'S OFFICE   | GENERAL OFFICE  |   |
|--|---|---|
| VESTIBULE<br>ALT 1 P-1A<br>ALT 1 P-1A<br>ALT 1 CPT-3A<br>ETR<br>ETR<br>ETR<br>ETR<br>TOILET  |   | FFICE<br>EX<br>T1P-1A<br>LT1B-1<br>1CPT-1A<br>T0PT-1A |
| DATA<br>EX<br>ALT 1 P-1A<br>ALT 1 MB-1<br>ETR<br>ALT 1 P-1A<br>ALT 1 P-1A<br>ALT 1 P-1A<br>ALT 1 CPT-1A<br>ALT 1 CPT-1A<br>ALT 1 CPT-1A  | ALT 1 P-1A<br>ALT 1 MB-1<br>ALT 1 MB-1<br>ALT 1 CPT-4A<br>ALT 1 CPT-4 |   |
| CARPET IN DISPLAY<br>CASE - TBD  | 3.0         ALT 01           P-1         P-1A           MB-1         MB-1           CPT-1         CPT-2A  | VESTIBULE<br>EX<br>P-1<br>MB-1<br>CPT-3<br>CPT-3      |
| CORRIDOR<br>EX<br>ALT 1 P-1A<br>ALT 1 P-1A<br>ALT 1 CPT-4A<br>B<br>COFFICE<br>ALT 1 P-1A<br>ALT 1 P-1A |   | ALT 01<br>P-1A<br>MB-1<br>CPT-3A                      |
| ALT 1 B-1<br>ALT 1 CPT-1A<br>ALT 1 CPT-1A  |   | T 1 P-1A<br>T 1 B-1<br>1 CPT-1A<br>ALT 1<br>ALL P-4A  |

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OWNER: DTCC PO BOX 897 DOVER, DE 19903

ARCHITECT BSA+A 954 JUSTISON ST. WILIMINGTON, DE 19801 p:302.6589300 f:302.658.1125

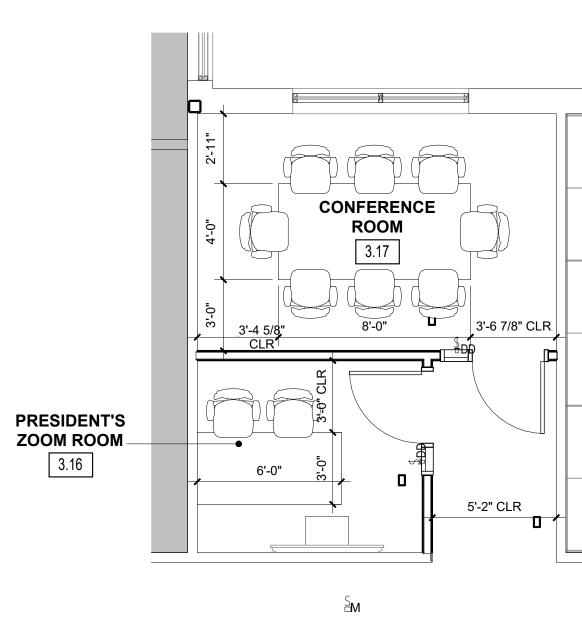
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**B S A** + **A** 





# 2 CONFERENCE AND PRESIDENT'S ZOOM ROOM FURNITURE PLAN 1/4" = 1'-0"

# PRELIMINARY - ISSUED FOR BID



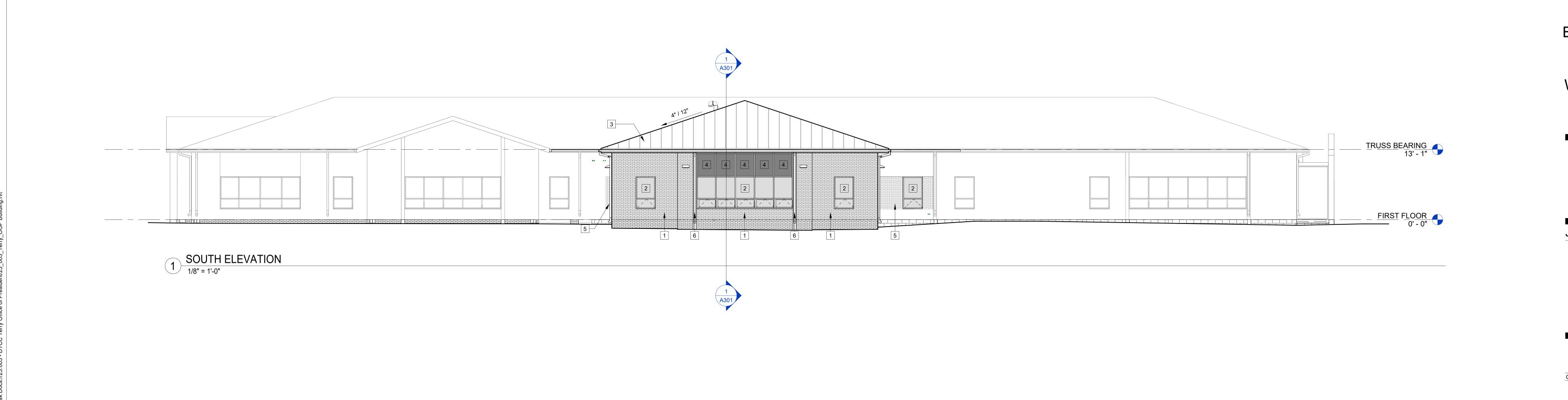


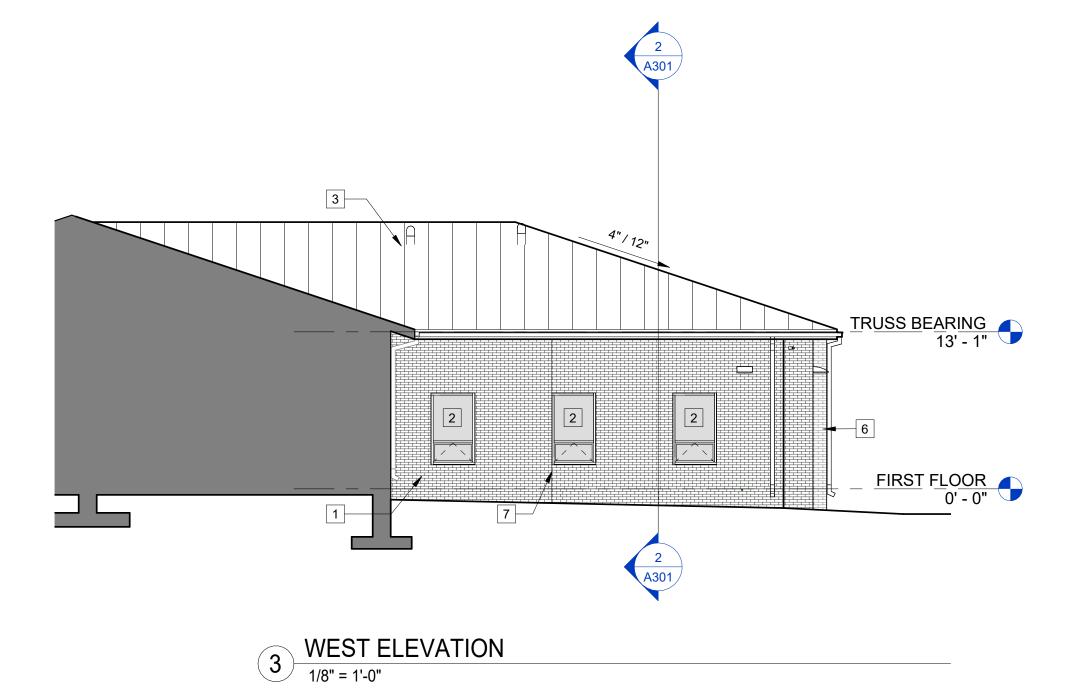
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**RENOVATION & ADDITION** 

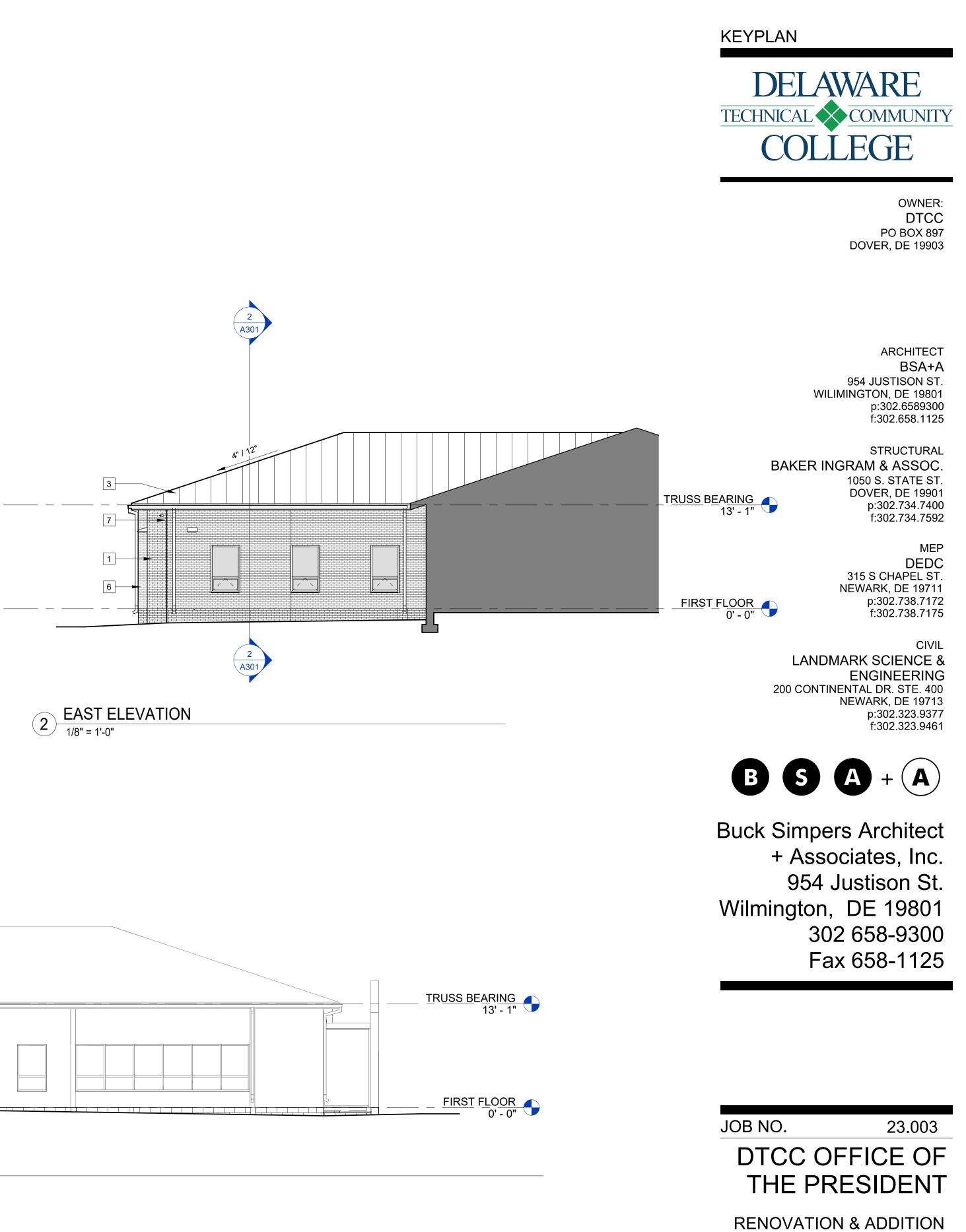
FURNITURE PLANS





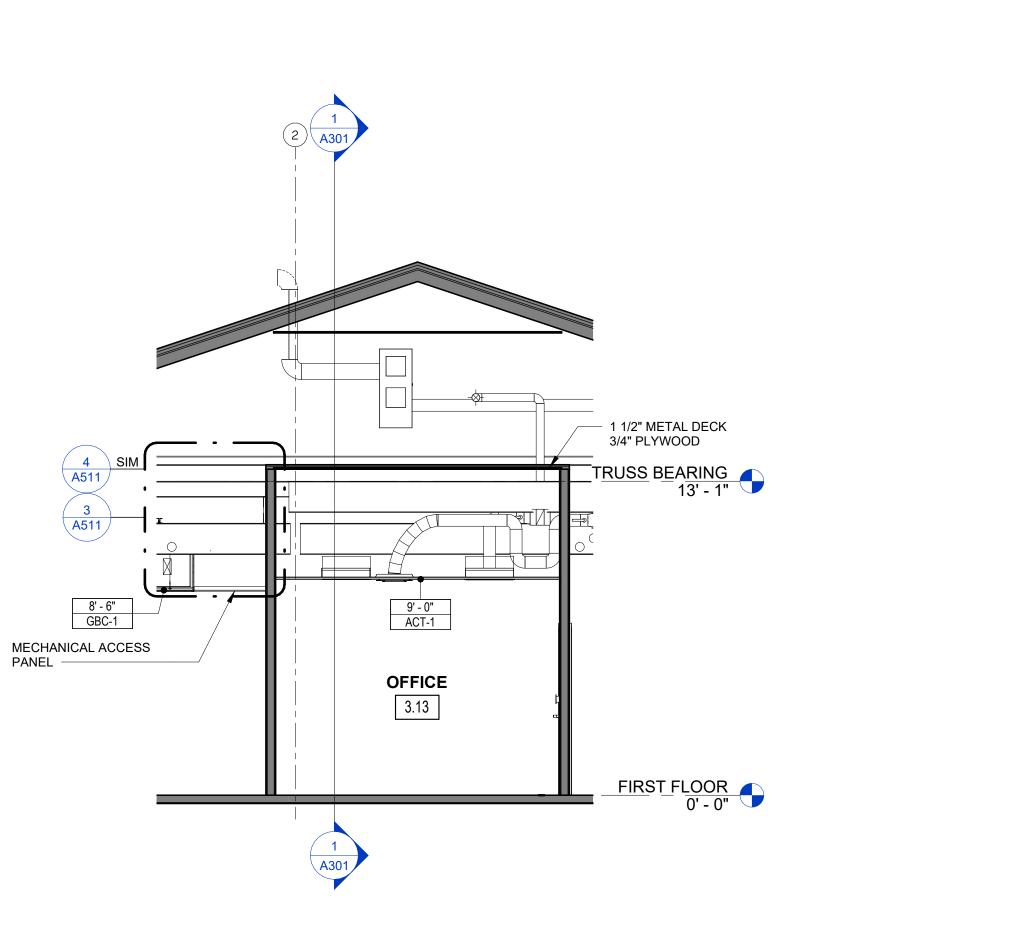


| ELEVATION KEYNOTES |   |  |
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| MARK               | NOTE  |  |
|                    |   |  |
| 1                  | BRICK FACADE  |  |
| 2                  | STOREFRONT WITH AWNING WINDOW                                 |  |
| 3                  | STANDING SEAM METAL ROOF - TO MATCH EXISTING                  |  |
| 4                  | STOREFRONT FRAMED METAL PANEL                                 |  |
| 5                  | INFILL EXISTING OPENING WITH MATCHING WALL TYPE & BRICK       |  |
| 6                  | DOUBLE WYTHE BRICK WING WALL - TO MATCH EXISTING CONSTRUCTION |  |
| 7                  | CONTROL JOINT   |  |
|                    |   |  |

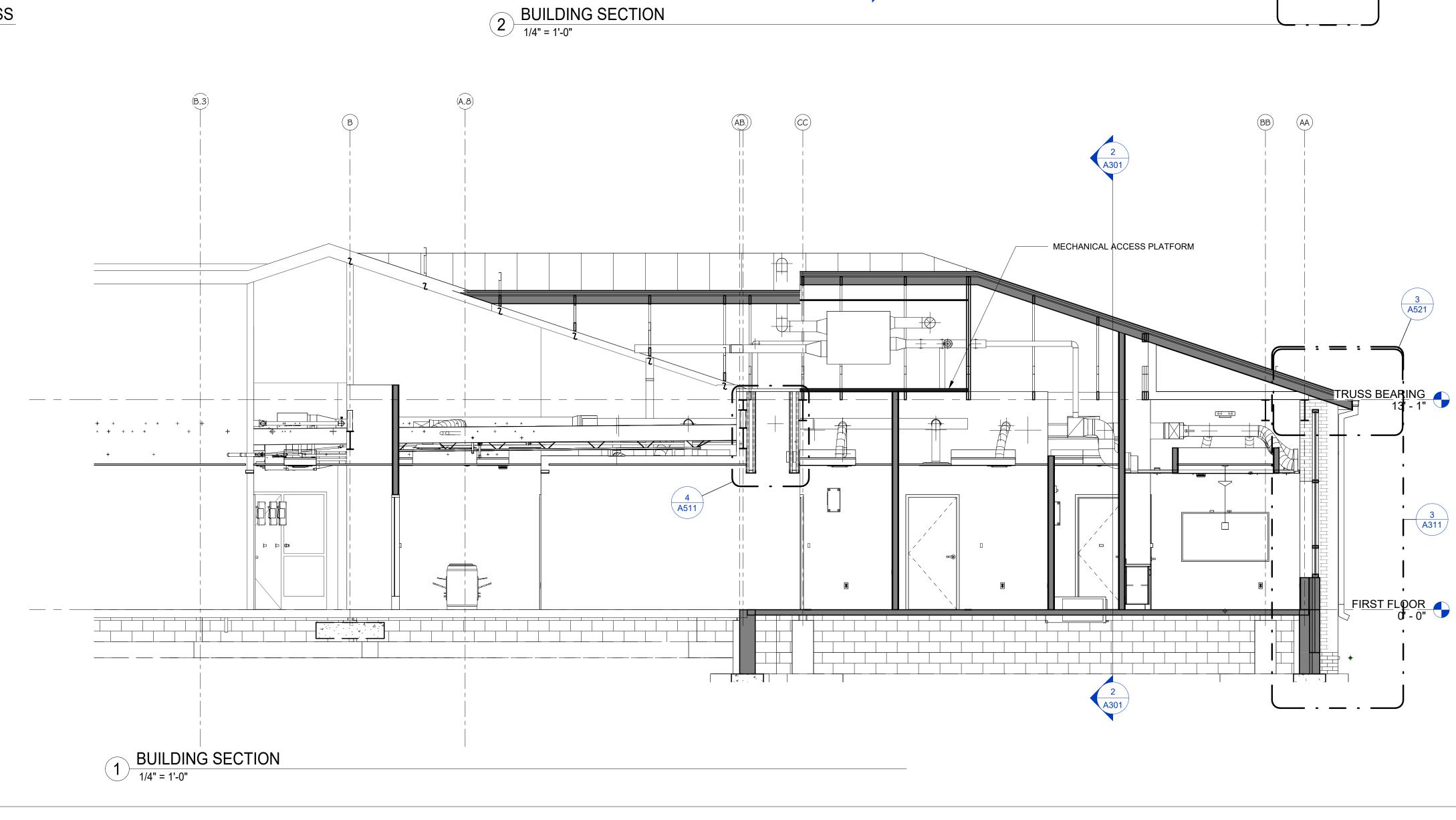


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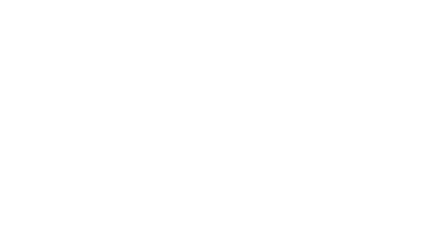
EXTERIOR BUILDING ELEVATIONS COPYRIGHT, ALL RIGHTS RESERVED © 2025 A201













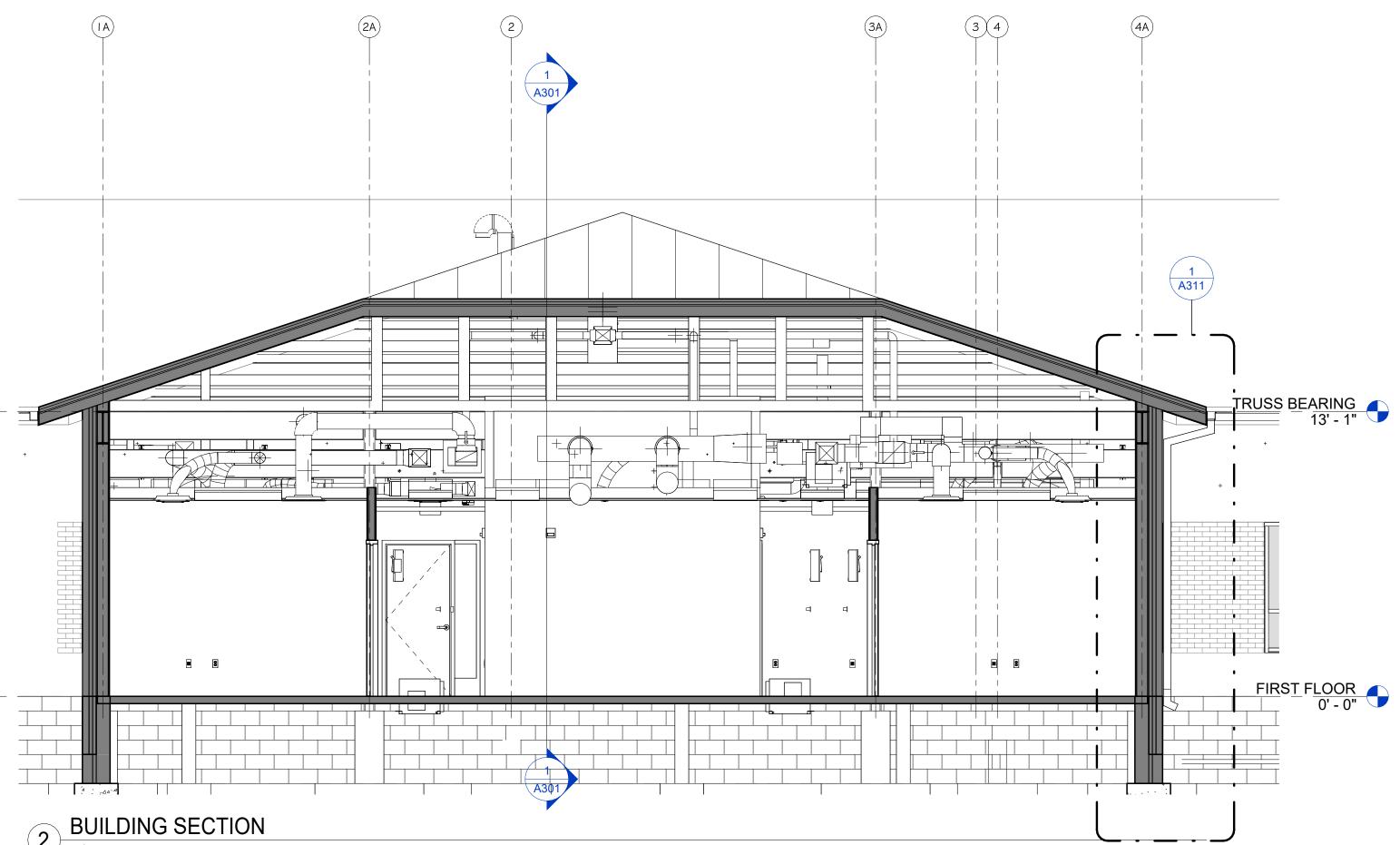






















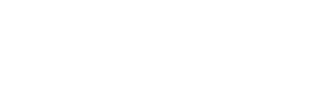












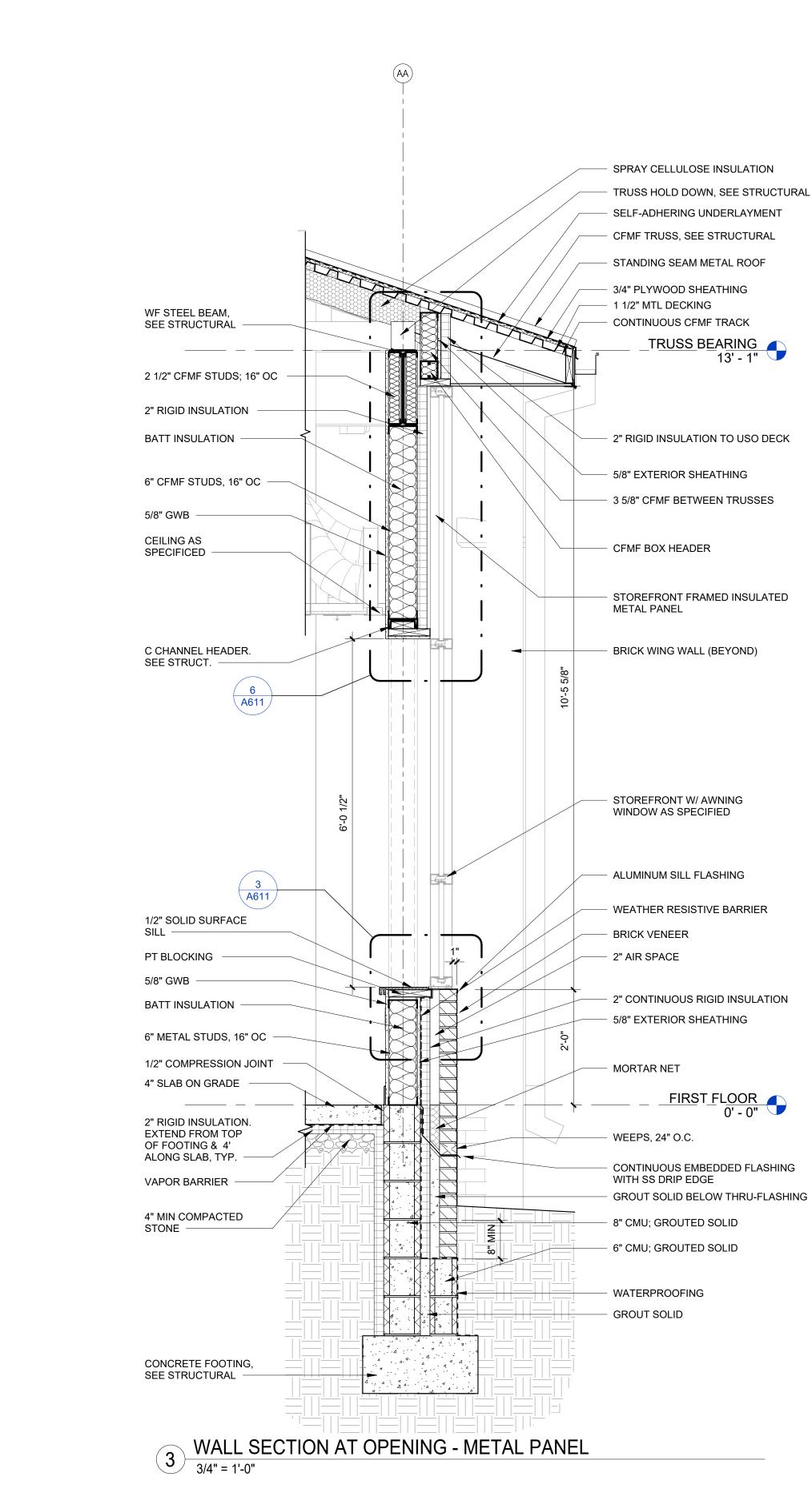
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DTCC OFFICE OF THE PRESIDENT **RENOVATION & ADDITION** 

**BUILDING SECTIONS** 

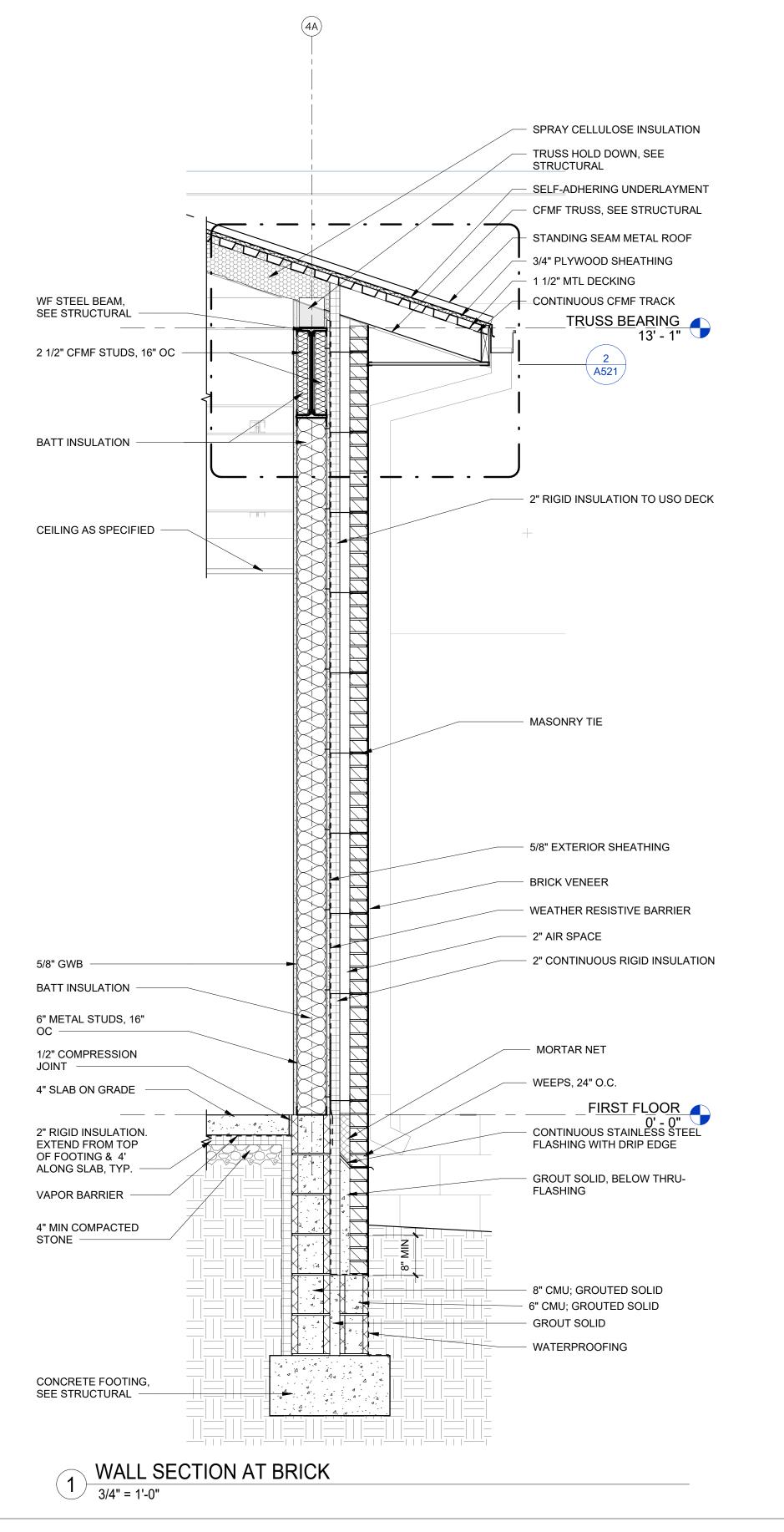
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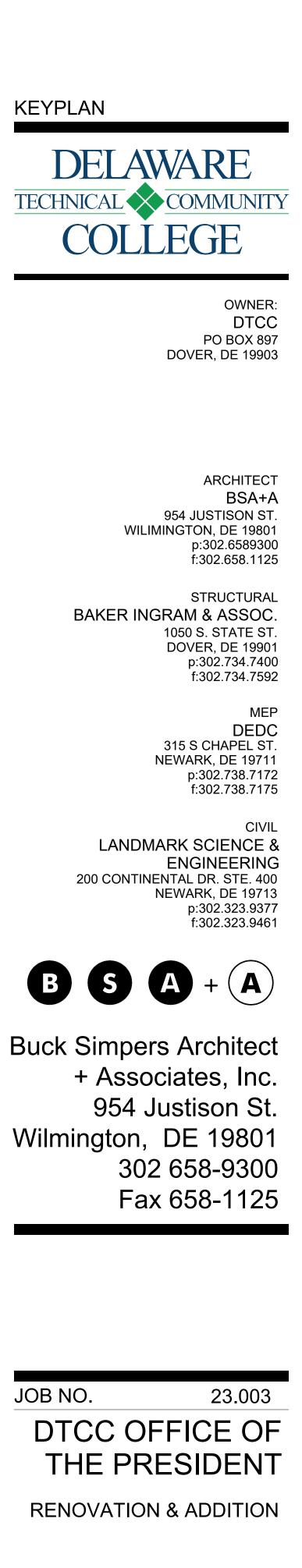
### TRUSS HOLD DOWN. SEE STRUCT SELF-ADHERING UNDERLAYMENT CFMF TRUSS, SEE STRUCTURAL - STANDING SEAM METAL ROOF - 3/4" PLYWOOD SHEATHING 1 1/2" MTL DECKING WF STEEL BEAM, SEE STRUCTURAL - CONTINUOUS CFMF TRACK \_\_\_\_\_ 13' - 1" 2 1/2" CFMF STUDS, 16" OC -BRICK VENEER BATT INSULATION 18 MASONRY TIE 6" CFMF STUDS, 16" OC -2" AIR SPACE 5/8" GWB -- 2" RIGID INSULATION TO USO DECK CEILING AS SPECIFIED -5/8" EXTERIOR SHEATHING ━╢៹┤<del>╗╡╸</del>┡ C CHANNEL HEADER, WEEPS, 24" OC SEE STRUCTURAL STOREFRONT W/ AWNING WINDOW AS SPECIFIED ALUMINUM SILL FLASHING 1/2" SOLID SURFACE PT BLOCKING BRICK VENEER 5/8" GWB -BATT INSULATION -- 2" AIR SPACE 6" METAL STUDS, 16" - 2" CONTINUOUS RIGID INSULATION OC WEATHER RESISTIVE BARRIER 1/2" COMPRESSION JOINT 5/8" EXTERIOR SHEATHING 4" SLAB ON GRADE MORTAR NET ╫╴┝╤┥ FIRST FLOOR 2" RIGID INSULATION. EXTEND FROM TOP FLASHING WITH DRIP EDGE +OF FOOTING & 4' WEEPS, 24" OC ALONG SLAB, TYP. WATERPROOFING 4" MIN COMPACTED GROUT SOLID BELOW THRU-FLASHING GROUT SOLID - 6" CMU; GROUTED SOLID CONCRETE FOOTING - 8" CMU; GROUTED SOLID

SPRAY CELLULOSE INSULATION

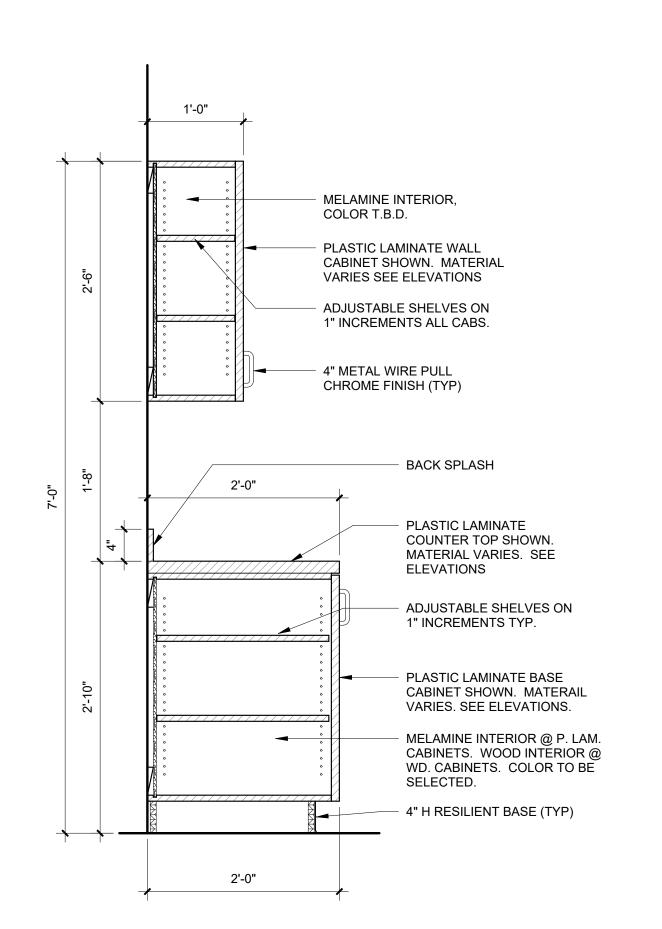
2 WALL SECTION AT OPENING - BRICK 3/4" = 1'-0"

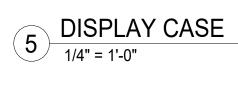


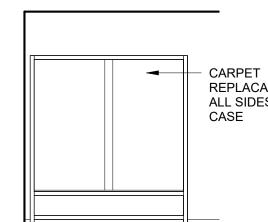
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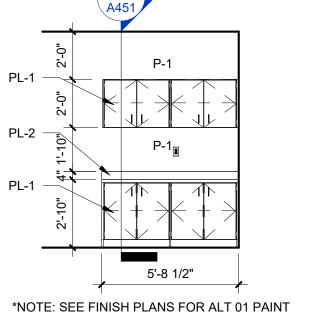
WALL SECTIONS COPYRIGHT, ALL RIGHTS RESERVED © 2025 A311

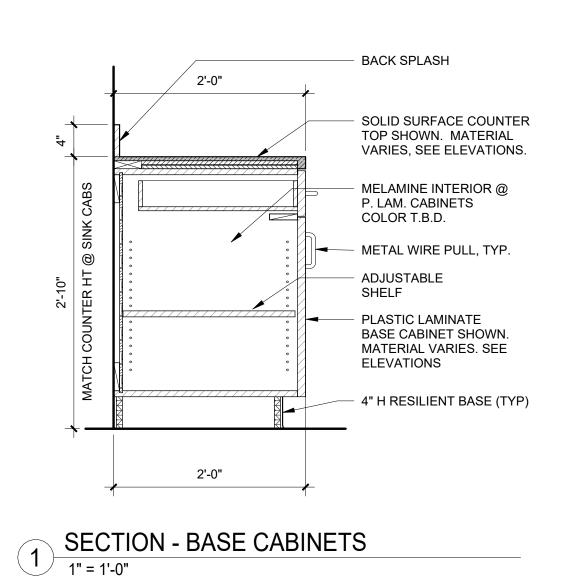


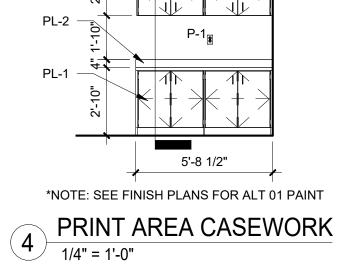


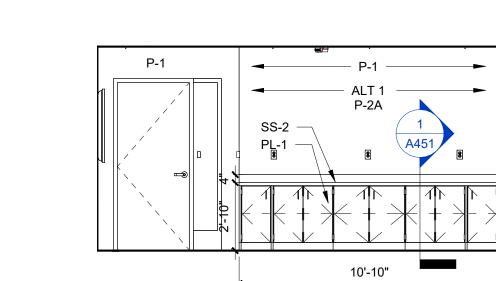


REPLACAEMENT -ALL SIDES INSIDE CASE



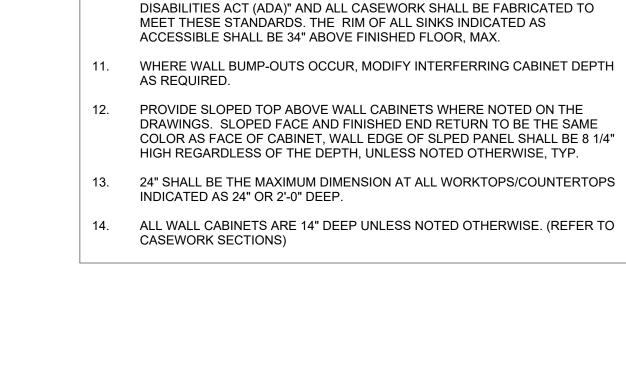






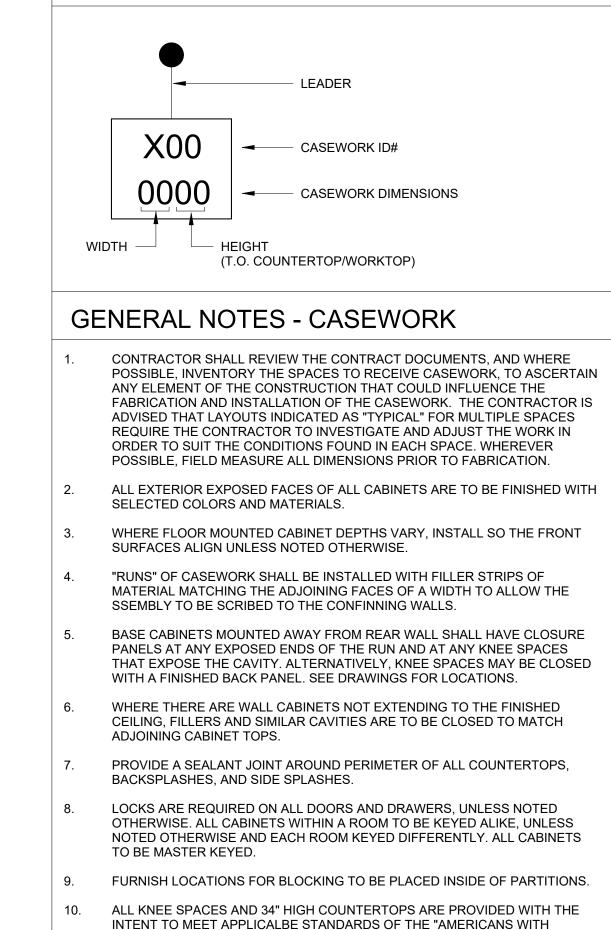
CONFERENCE ROOM CASEWORK

3 CONFER



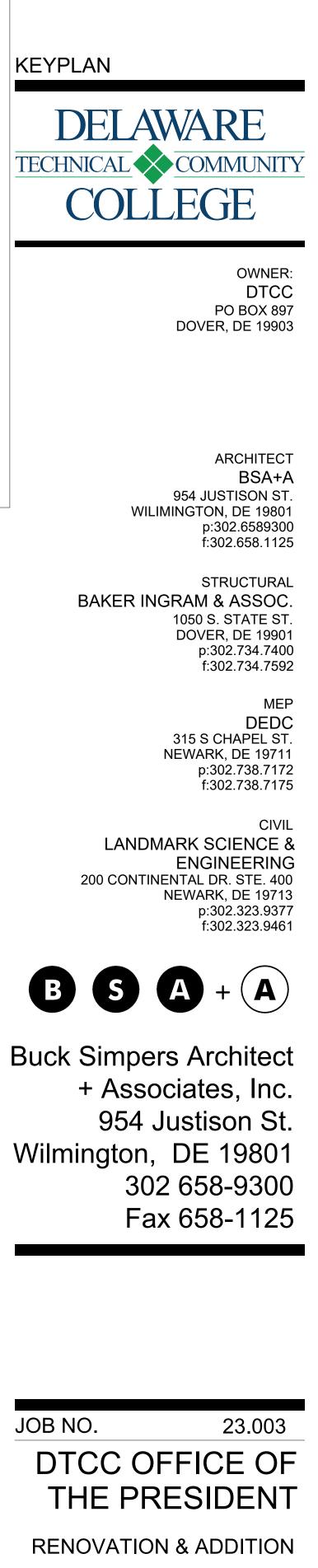
\*NOTE: SEE FINISH PLANS FOR ALT 01 PAINT

P-1



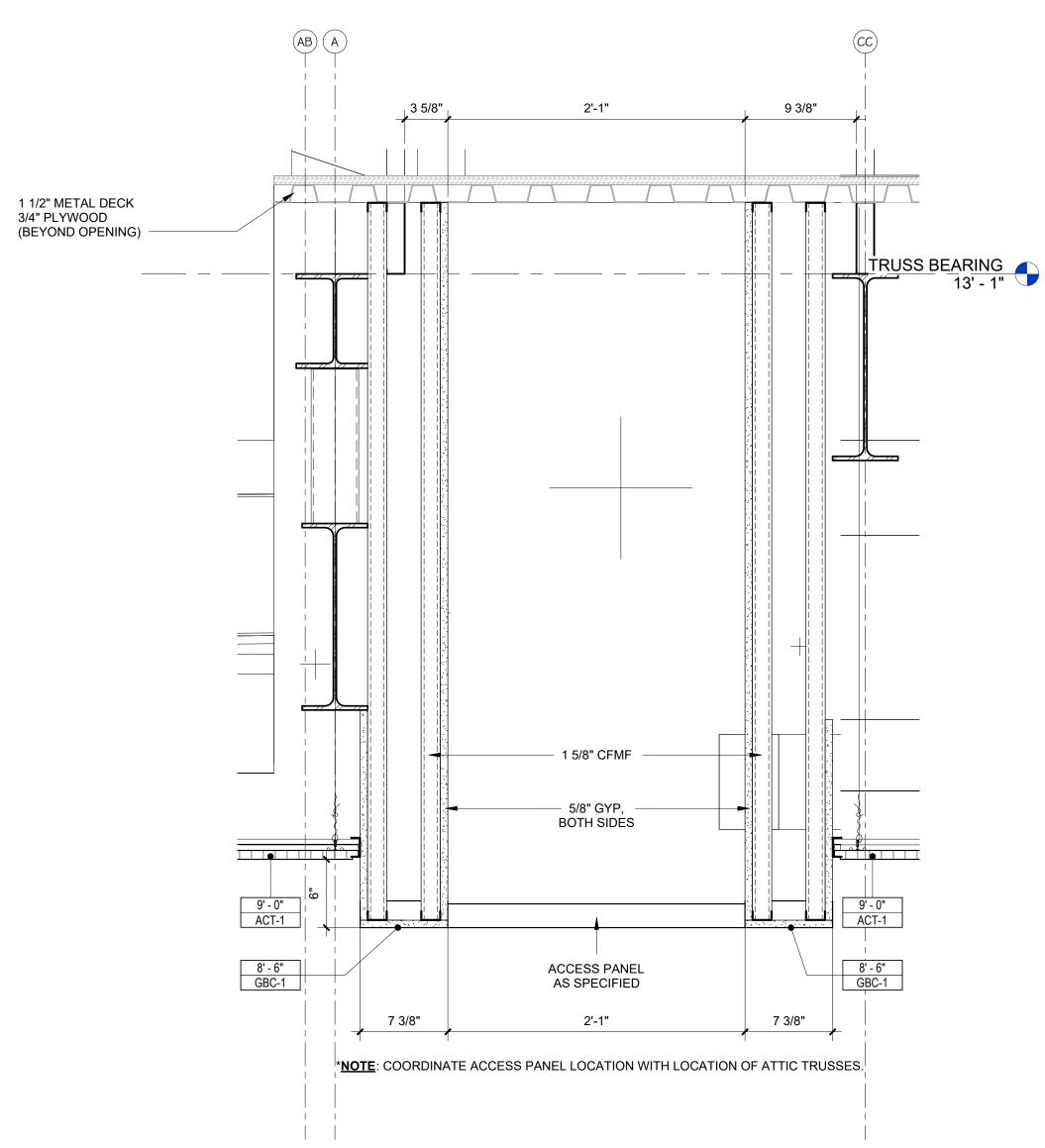
LEGEND - CASEWORK

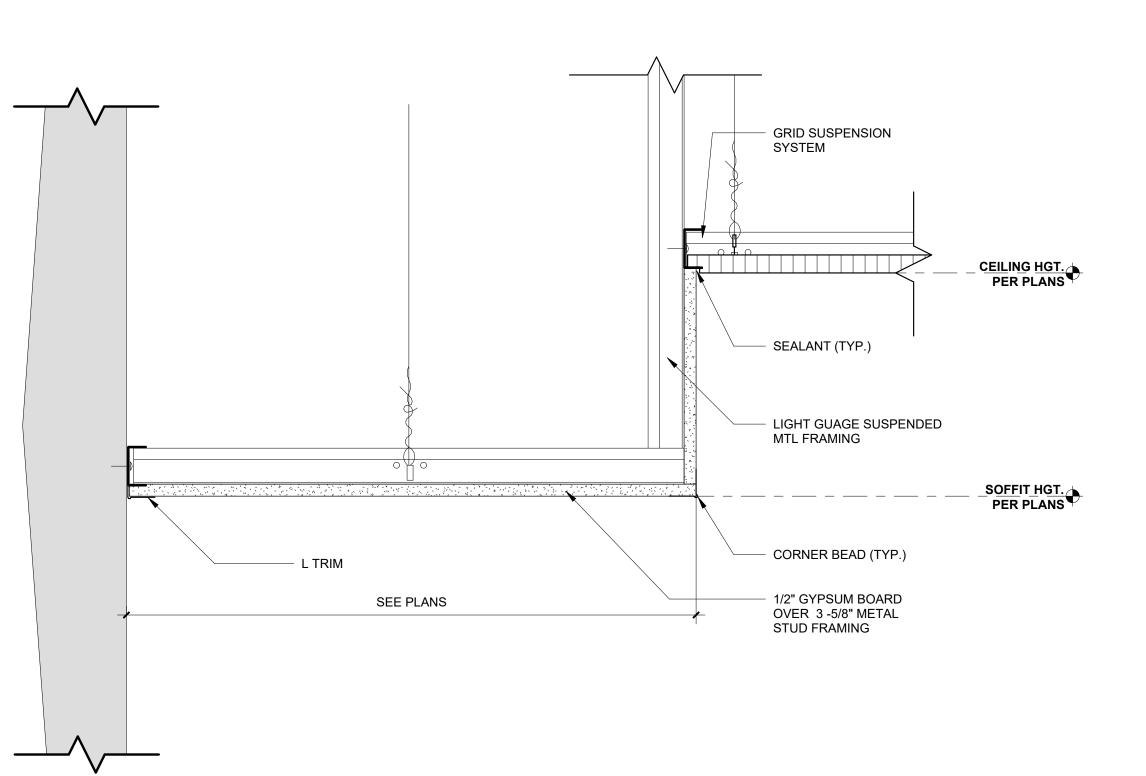
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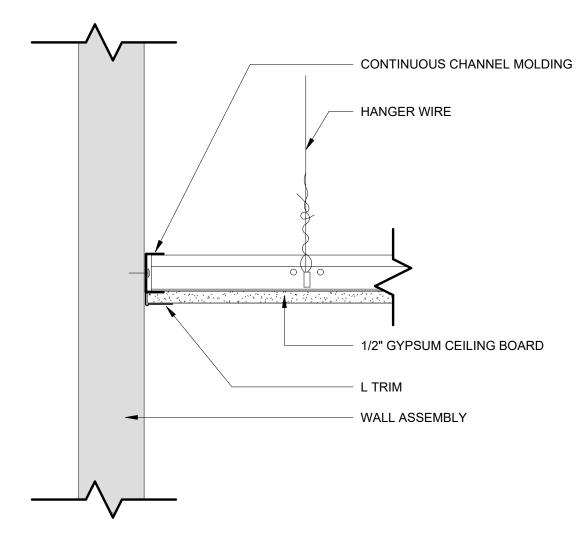
CASEWORK

4 MECHANICAL ACCESS SECTION 1 1/2" = 1'-0"

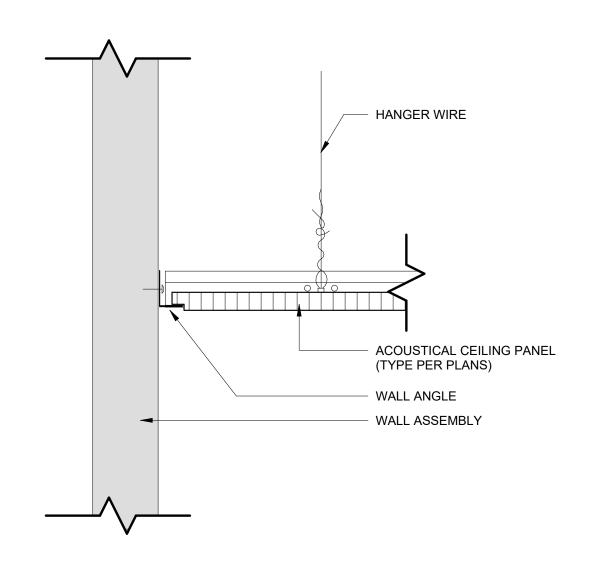




3 SOFFIT DETAIL - GYP.BD TO ACP - TYPICAL 3" = 1'-0"

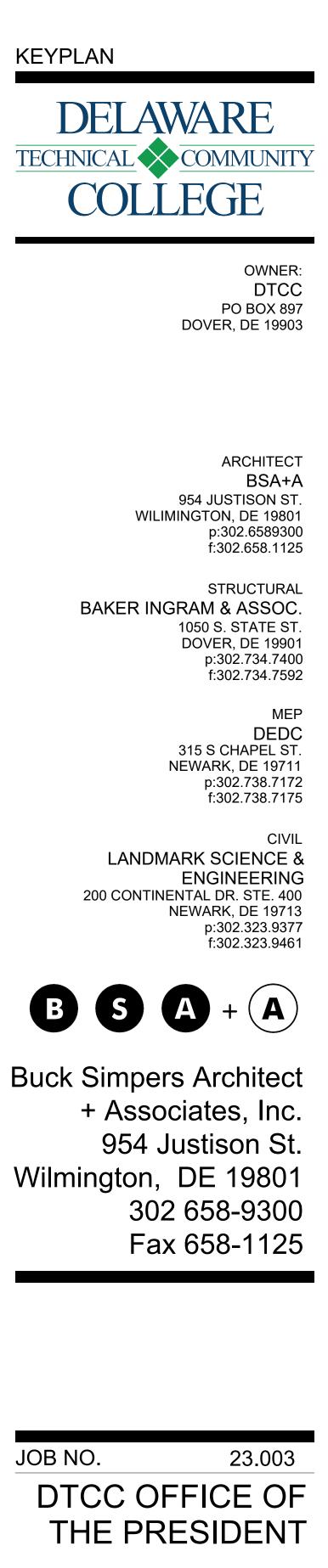


2 EDGE DETAIL - GYP BD CEILING - TYPICAL 3" = 1'-0"



1 EDGE DETAIL - ACP CEILING - TYPICAL 3" = 1'-0"

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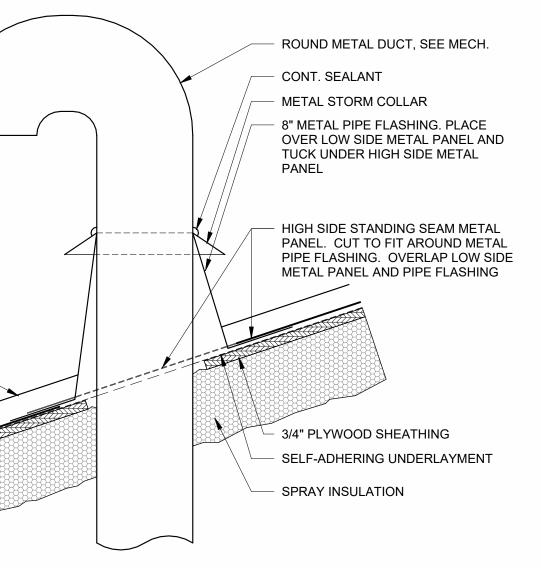


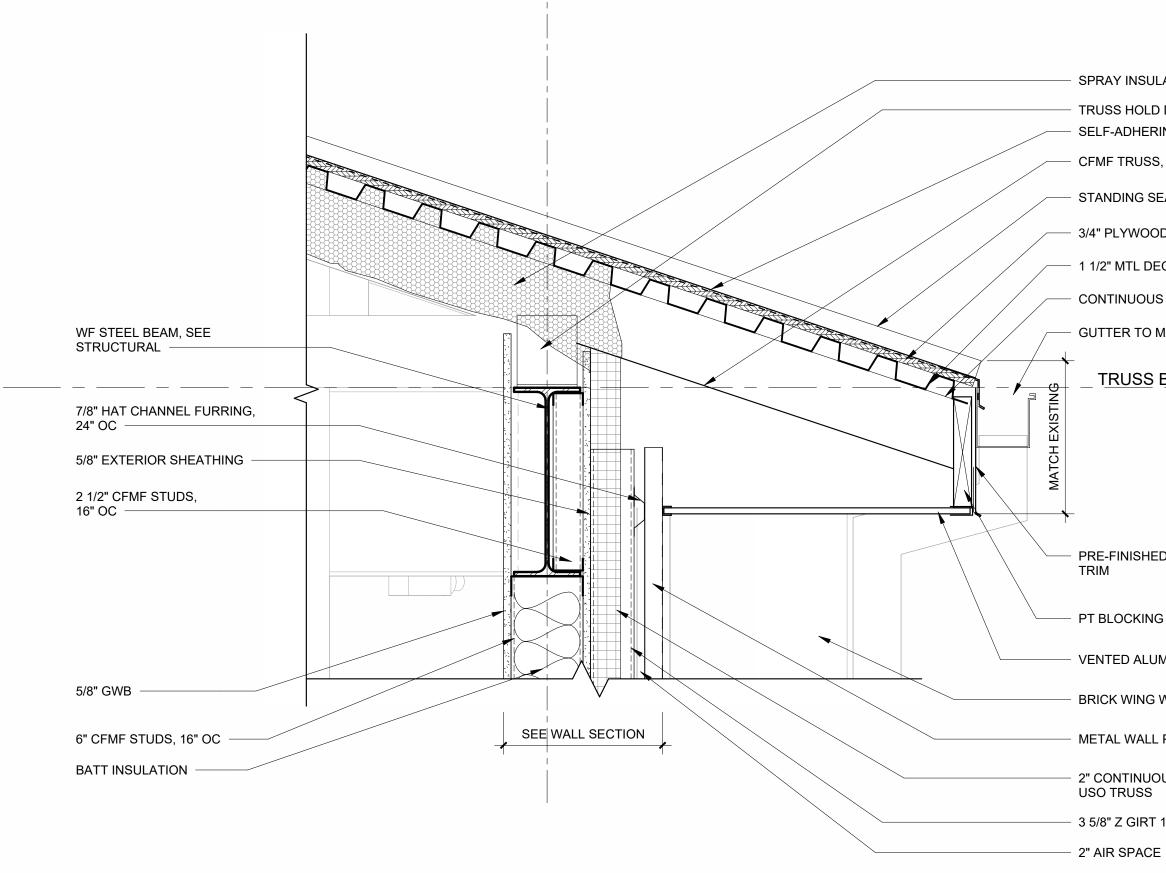
**RENOVATION & ADDITION** 

**CEILING DETAILS** 

STANDING SEAM BEYOND LOW SIDE METAL PANEL

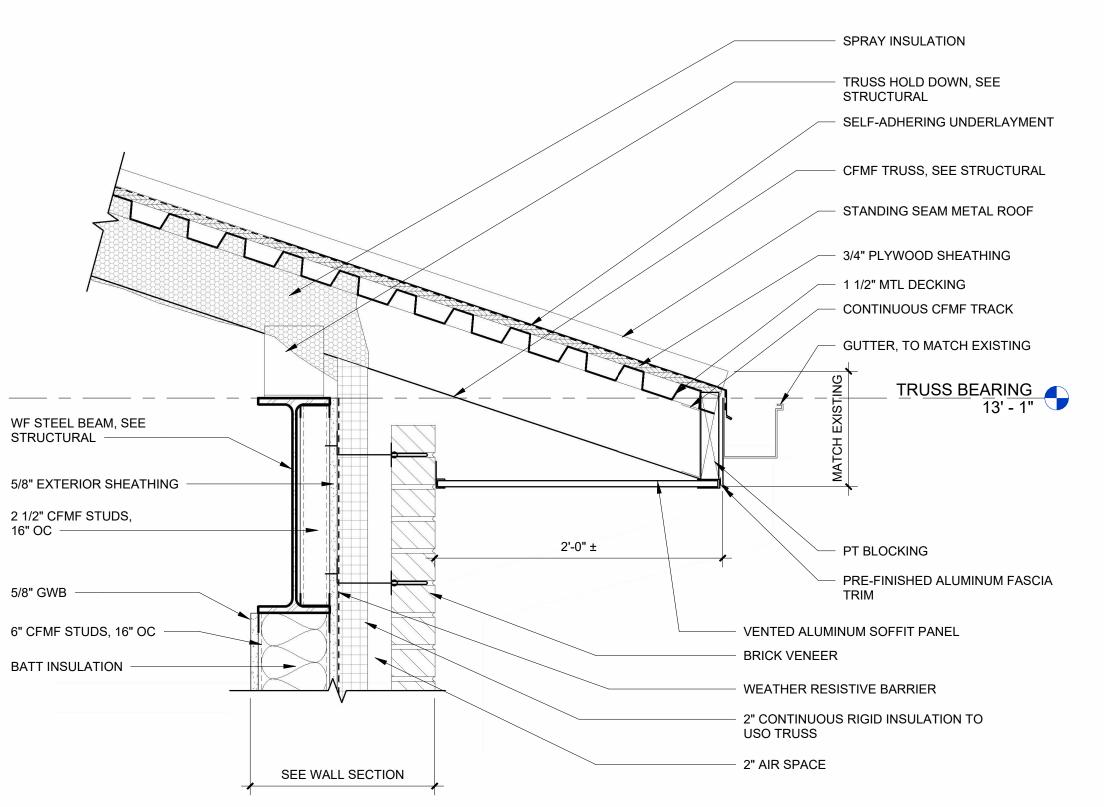
4 DUCT THRU ROOF SECTION DETAIL 4 1 1/2" = 1'-0"





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ROOF EDGE AT METAL PANEL **1** 1/2" = 1'-0"

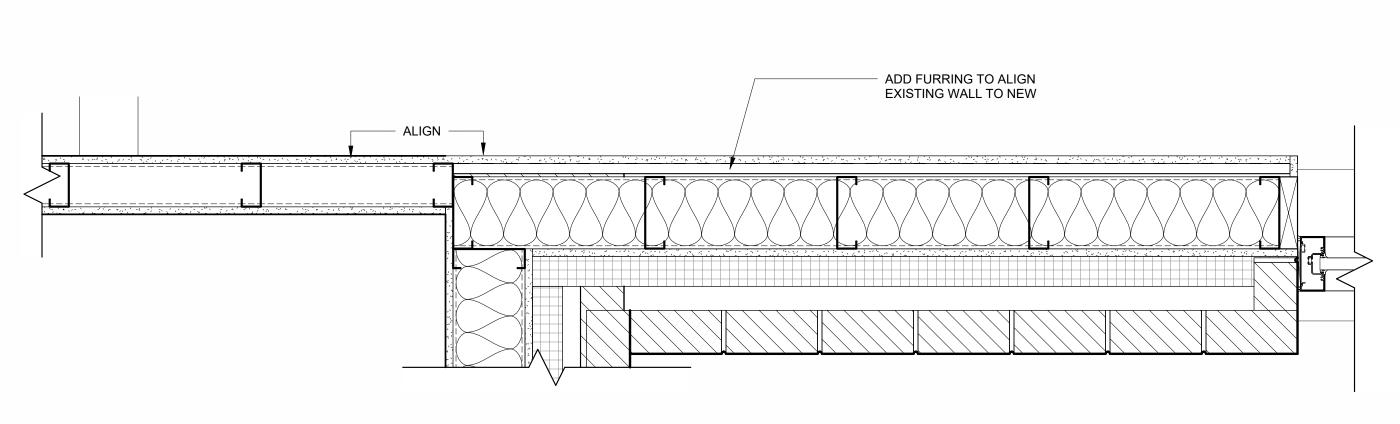


\_\_\_\_\_ WF STEEL BEAM, SEE STRUCTURAL

2 1/2" CFMF STUDS, 16" OC \_\_\_\_\_

5/8" GWB -6" CFMF STUDS, 16" OC BATT INSULATION

2 ROOF EDGE AT BRICK 1 1/2" = 1'-0"



1 FURRING AT EXTERIOR WALL 1 1/2" = 1'-0"

2" CONTINUOUS RIGID INSULATION TO USO TRUSS - 3 5/8" Z GIRT 16" OC

METAL WALL PANEL

BRICK WING WALL (BEYOND)

VENTED ALUMINUM SOFFIT PANEL

PRE-FINISHED ALUMINUM FASCIA TRIM

# \_ TRUSS BEARING 13' - 1"

- CONTINUOUS CFMF TRACK - GUTTER TO MATCH EXISTING

— 1 1/2" MTL DECKING

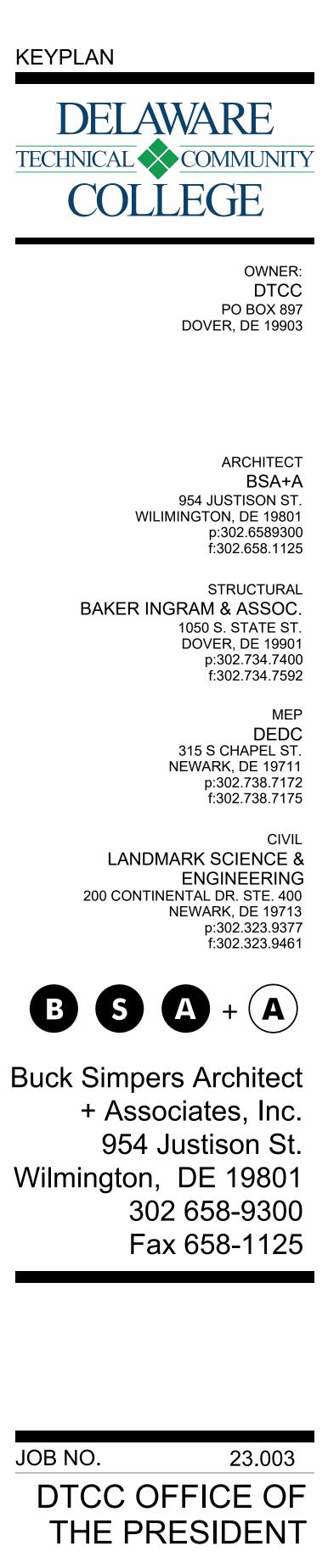
— 3/4" PLYWOOD SHEATHING

— STANDING SEAM METAL ROOF

TRUSS HOLD DOWN, SEE STRUCTURAL SELF-ADHERING UNDERLAYMENT - CFMF TRUSS, SEE STRUCTURAL

SPRAY INSULATION

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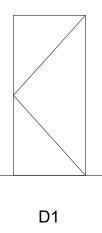


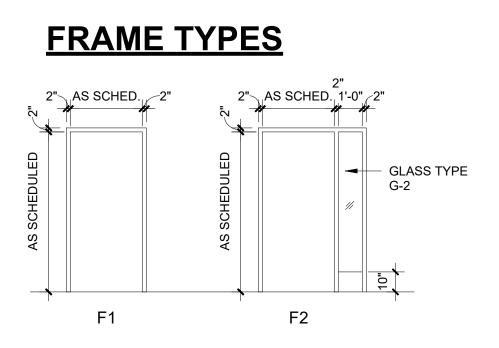
**RENOVATION & ADDITION** 

EXTERIOR DETAILS

|                 | <u>Door</u> |         |         |             |          |        |      |          |        |           |             |             |         |
|-----------------|-------------|---------|---------|-------------|----------|--------|------|----------|--------|-----------|-------------|-------------|---------|
| k Room Name     | Туре        | Width   | Height  | Thickness   | Material | Finish | Туре | Material | Finish | Threshold | Jamb Detail | Head Detail | Remarks |
|                 |             |         |         |             |          |        |      |          |        |           |             |             |         |
| MAIN CORRIDOR   | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F6   | HM       | PAINT  |           | 1/A601      | 2/A601      |         |
| I OFFICE        | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F1   | HM       | PAINT  |           | 1/A601      | 2/A601      |         |
| 5 OFFICE        | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F1   | HM       | PAINT  |           | 1/A601      | 2/A601      |         |
| 6 AVP OFFICE    | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F1   | HM       | PAINT  |           | 1/A601      | 2/A601      |         |
| CONFERENCE      | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F6   | HM       | PAINT  |           | 1/A601      | 2/A601      |         |
| A CONFERENCE    | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F6   | HM       | PAINT  |           | 1/A601      | 2/A601      |         |
| AVP OFFICE      | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F1   | HM       | PAINT  |           | 1/A601      | 2/A601      |         |
| OFFICE          | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F1   | НМ       | PAINT  |           | 1/A601      | 2/A601      |         |
| OFFICE          | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F1   | НМ       | PAINT  |           | 1/A601      | 2/A601      |         |
| OFFICE          | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F1   | НМ       | PAINT  |           | 1/A601      | 2/A601      |         |
| 2 AVP OFFICE    | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F1   | НМ       | PAINT  |           | 1/A601      | 2/A601      |         |
| 3 OFFICE        | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F1   | НМ       | PAINT  |           | 1/A601      | 2/A601      |         |
| I OFFICE        | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F1   | НМ       | PAINT  |           | 1/A601      | 2/A601      |         |
| MAIN CORRIDOR   | D1          | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F6   | НМ       | PAINT  |           | 1/A601      | 2/A601      |         |
| CONFERENCE ROOM |             | 3' - 0" | 7' - 0" | 0' - 1 3/4" | WOOD     |        | F6   | HM       | PAINT  |           | 1/A601      | 2/A601      |         |

# DOOR TYPES





<u>NOTES:</u>

- PRIME AND PAINT TOPS, EDGE AND BOTTOMS OF ALL HOLLOW METAL FRAMES.
- DEMO, PATCH & REPAIR WALLS AT EXISTING DOOR FRAMES AS REQUIRED FOR ELECTRIC LOCK OR CARD READER LOCS.
- ALL INTERIOR STOREFRONT IS TO RECEIVE 1/4" GLAZING UNLESS NOTED OTHERWISE. VERIFY ALL OPENINGS IN FIELD PRIOR TO ORDERING. ALL GLAZING WITHIN 48" OF A DOOR IS TO BE FULLY TEMPERED.
- CAULK.
- PROVIDE SEALANT AT BASE & FLOOR FINISH CONNECTION OF ALL FRAMES AND DOORS AS REQ'D. ALL GLAZING TO BE TEMPERED WHERE REQUIRED BY CODE

### **GENERAL DOOR AND FRAME NOTES**

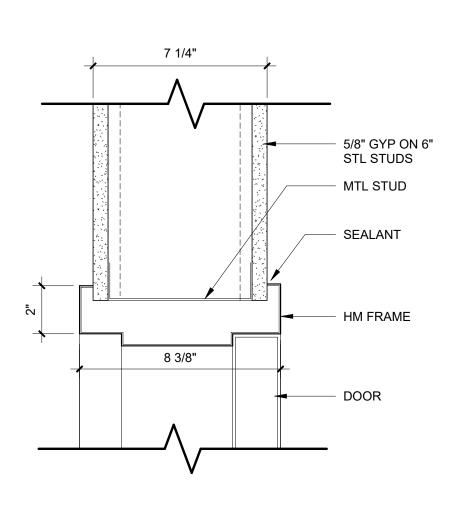
3.

- OPENING FORCE OF INTERIOR NON-RATED DOORS SHALL BE NO GREATER 1. THAN 5 LBS.
- OPENING FORCE OF FIRE RATED DOORS SHALL BE NO GREATER THAN 8
- LBS. ALL EXTERIOR GLAZING IN NON-RATED WALL AND DOOR ASSEMBLIES SHALL
- BE MINIMUM 1" INSULATED GLAZING. REFER TO SPECIFICATIONS FOR GLAZING TYPES.
- 4. PAINT ALL EXPOSED STEEL (COLOR AS SELECTED BY ARCHITECT). PROVIDE COMPATIBLE FLASHING MATERIALS BETWEEN DISSIMILAR
- MATERIALS SUCH AS STEEL TO ALUMINUM. 6. SHIM ASSEMBLIES AS REQUIRED FOR PLUMB AND LEVEL. PROVIDE SEALANT
- AND BACKER RODS AT ALL JOINTS BETWEEN WINDOW SYSTEMS, DOOR FRAMES AND OTHER SURROUNDING CONSTRUCTION. ALUMINUM WINDOW AND ENTRANCE FRAMES SHALL NOT BE INSTALLED IN 7.
- DIRECT CONTACT WITH DISSIMILAR BUILDING MATERIALS. THE MINIMUM LATCH SIDE CLEARANCE BETWEEN THE EDGE OF DOOR AND
- ADJACENT WALL OR OBSTRUCTIONS ON PULL SIDE SHALL BE 1'-6" MINIMUM. THE MINIMUM LATCH SIDE CLEARANCE BETWEEN THE EDGE OF DOOR AND 9
- ADJACENT WALL OR OBSTRUCTIONS ON PUSH SIDE SHALL BE 1'-0" MINIMUM. DO NOT APPLY WALL BASE TO HOLLOW METAL OR ALUMINUM FRAMES, 10. UNLESS OTHERWISE NOTED.
- 11. THE CONTRACTOR SHALL COORDINATE FOR INSTALLATION OF POWER, CONDUIT AND/OR WIRING, ETC. AT OPENINGS SCHEDULED TO RECEIVE DEVICES SUCH AS DOOR CONTACTS. CARD READERS, ELECTRIC LOCKS AND AUTOMATIC DOOR OPENERS.

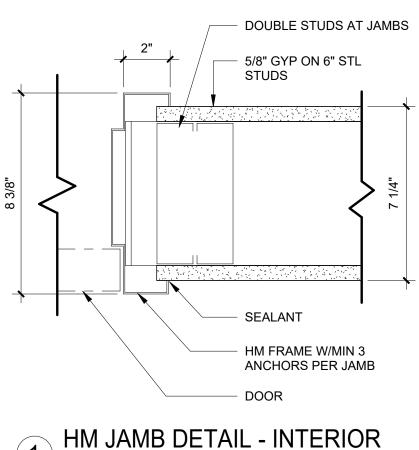
### HARDWARE SPECIFICATIONS

- HINGES TO BE NORMAL WEIGHT 4-1/2" X 4-1/2" 3 KNUCKLE PLAIN BEARING 1. FULL MORTISE NRP
- LOCK AND LATCH SETS TO BE CYLINDRICAL ADA LEVER AND PULL. 2.
- CLOSER TO BE REGULAR ARM (MOUNTED ON ROOL (PULL) SIDE OF DOOR) 3.
- 4. FLOOR STOP TO BE DOME STYLE
- SILENCERS TO BE DRILL AND SET IN FRAME (SELF ADHESIVE NOT 5. PERMITTED)

ALL VOIDS AT WINDOW JAMBS AND LOUVERS SHALL RECEIVE FOAM INSULATION PRIOR TO APPLICATION OF FINAL INTERIOR ALL ROUGH OPENINGS TO RECEIVE CONTINUOUS FLEXIBLE FLASHING OVER SHEATHING PER MANUFACTURER STANDARDS.



2 HM HEAD DETAIL - INTERIOR 3" = 1'-0"



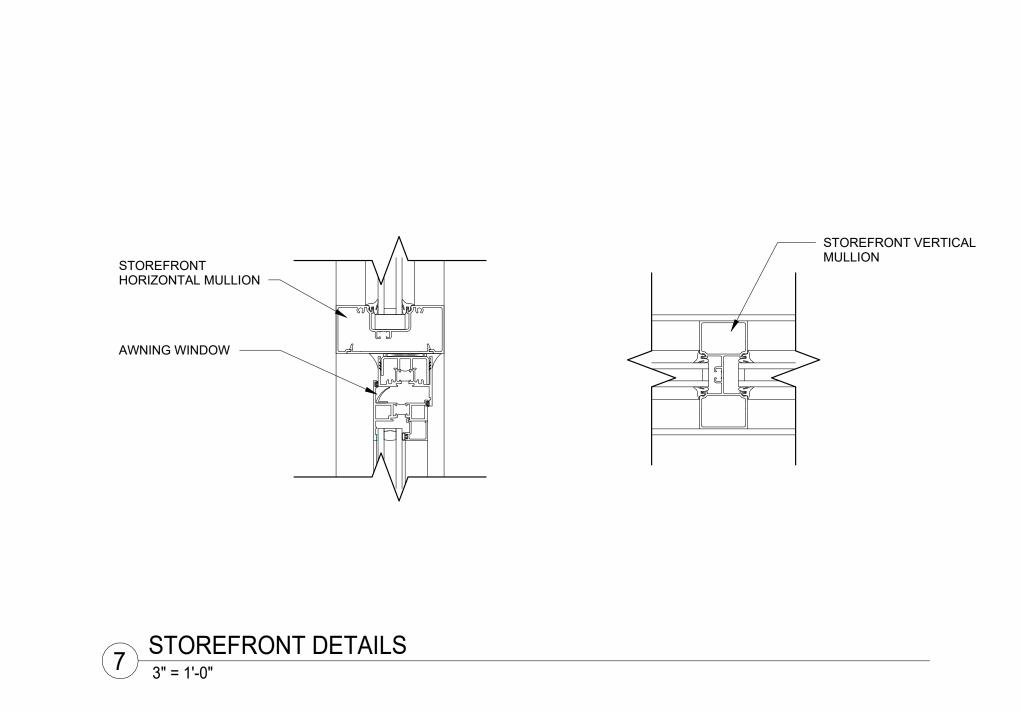
1 HM JAMB DETAIL - INTERIOR 3" = 1'-0"

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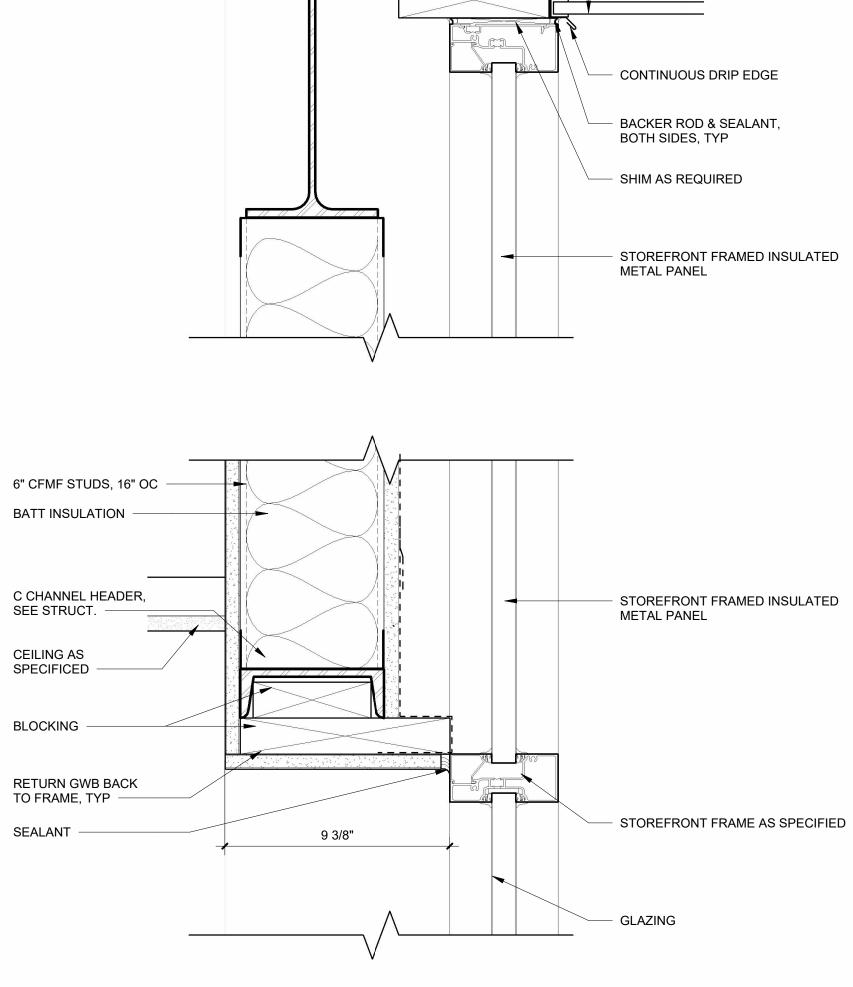


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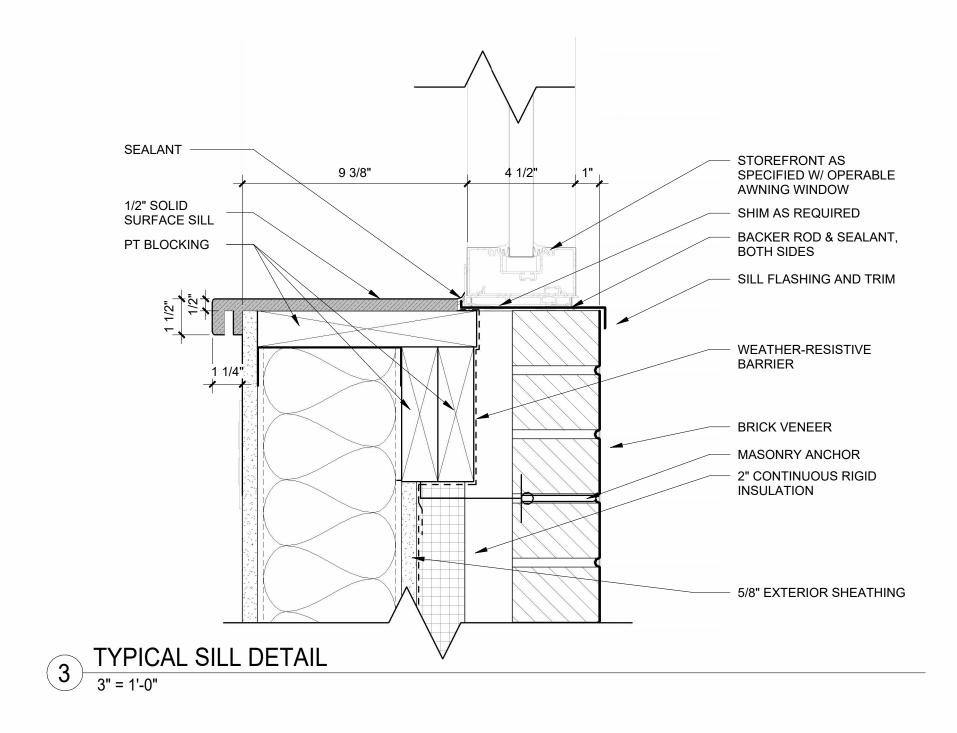


### 6 HEAD DETAIL AT METAL PANEL 3" = 1'-0"

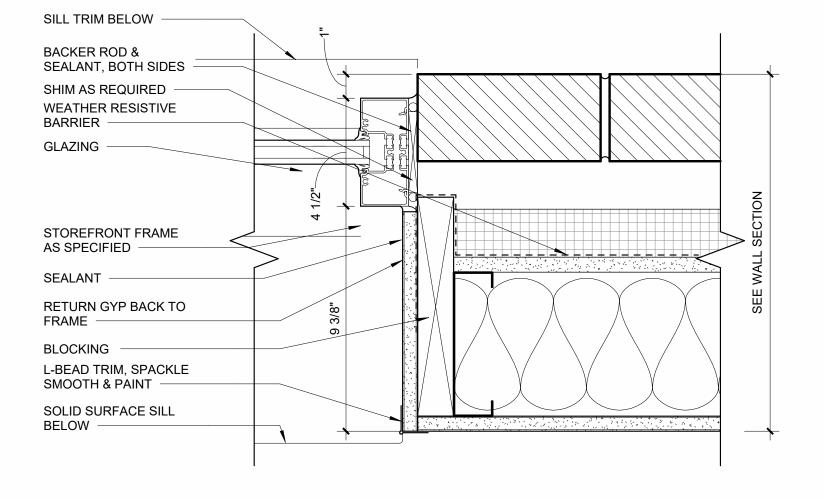


Steven Rod a Selavart, BOTH SIDES, TYP

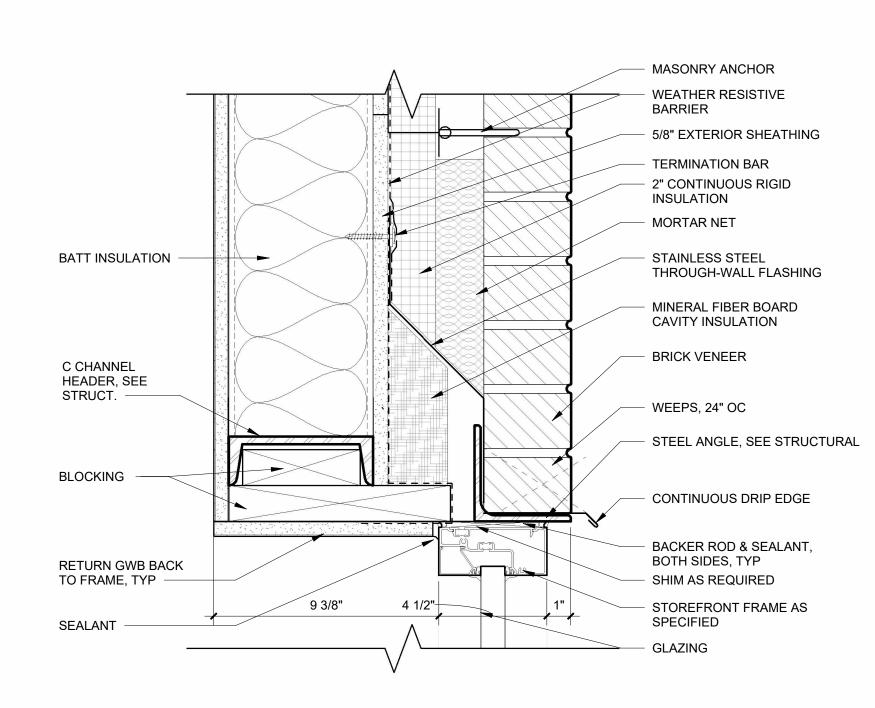
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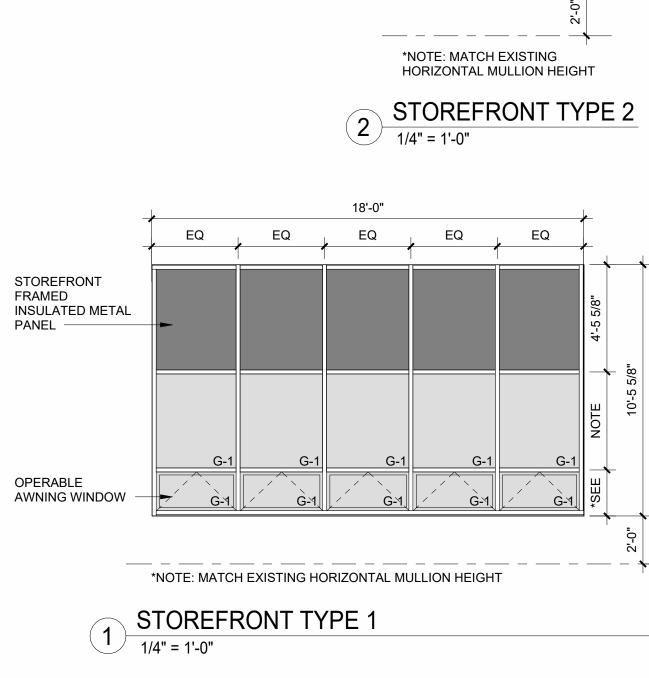


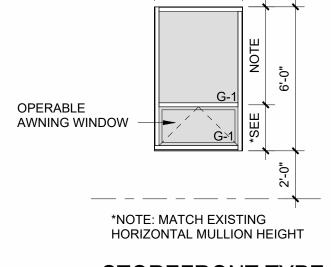
### 4 TYPICAL JAMB DETAIL 3" = 1'-0"



### 5 HEAD DETAIL AT BRICK WALL 3" = 1'-0"

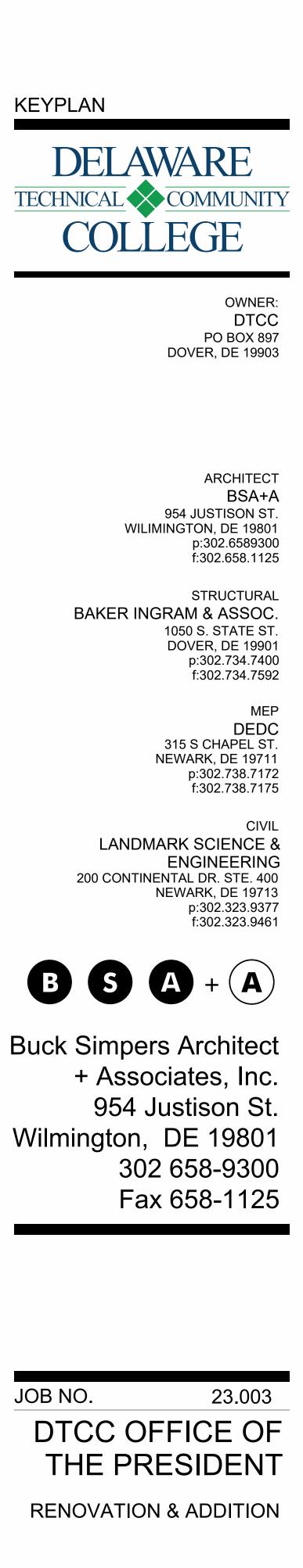






3'-8"

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# GENERAL NOTES FOR FIRE-PROTECTION

- ALL WORK SHALL BE IN CONFORMANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS ADOPTED BY MUNICIPAL, COUNTY, STATE AND FEDERAL AUTHORITIES, UTILITY COMPANIES, INSURANCE AGENCIES AND OTHER AUTHORITIES HAVING IURISDICTION OF AUTHORITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY OF HIS OWN PERSONAL AND SURROUNDINGS OF THE WORK AREA. THIS INCLUDES PROVIDING ALL NECESSARY BARRICADES, SIGNS, FIRE EXTINGUISHERS, ETC. ALL APPLICABLE OSHA REGULATIONS SHALL APPLY TO THIS WORK. COMPLY WITH ALL OWNER'S SITE SAFETY CONDITIONS.
- THE CONTRACTOR SHALL APPLY FOR, SECURE AND PAY FOR ALL PERMITS AND/OR CERTIFICATES OF INSPECTION REQUIRED IN THE PERFORMANCE OF THE WORK BY ALL AUTHORITIES HAVING JURISDICTION.
- THESE DOCUMENTS ARE SHOWN DIAGRAMMATICALLY, CONTRACTOR SHALL VERIFY ALL ROUTING FOR POSSIBLE INTERFERENCES BEFORE FABRICATION AND INSTALLATION. CONTRACTORS BID SHALL INCLUDE LABOR, MATERIAL AND EQUIPMENT TO RESOLVE NTERFERENCES.
- ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION ARE NOT SHOWN ON THE DRAWINGS. REFER TO EQUIPMENT INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS, INCLUDING REQUIRED CONNECTION LOCATIONS, TYPES, & SIZES.
- ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER SO THAT DISRUPTION TO THE AREAS INVOLVED IS KEPT TO A MINIMUM. CONTRACTOR SHALL GIVE OWNER A MINIMUM OF 5 WORKING DAYS NOTICE OF ANY AND ALL WORK THAT WILL INTERFERE WITH THE OWNER'S OPERATION SO A SCHEDULE SUITABLE THE OWNER'S OPERATION SO A SCHEDULE SUITABLE TO THE OWNER CAN BE ARRANGED. ANY ACCIDENTAL INTERRUPTIONS TO SERVICES SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.
- 7. THE DRAWINGS GENERALLY INDICATE MAJOR ITEMS OF EXISTING MATERIALS AND EQUIPMENT THAT SHALL BE REMOVED, RELOCATED, REROUTED OR ABANDON BY EACH TRADE. IT IS NOT POSSIBLE TO INDICATE ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS; HOWEVER, THEIR REMOVAL, DELOCATED OF DEPUTYING OR ADAMONDIAN FEAT CHARLES. RELOCATIONS, REROUTING OR ABANDONMENT SHALL ALSO BE INCLUDED IN THIS CONTACT AND SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- VERIFY ALL FIELD CONDITIONS, ACCESS WAYS, DIMENSIONS AND DETAILS IN THE FIELD PRIOR TO BID AND PRIOR TO FABRICATION. INCLUDE IN BID ALL WORK NECESSARY TO COVER COSTS RESULTING FROM FIELD CONDITIONS.
- 10. IN ADDITION TO SPECIFICS AS MAY BE DEFINED HADDITION TO SPECIFICS AS MAY BE DEFINED HEREINAFTER THE CONTRACTOR SHALL PROTECT THE WORK SITE AND ALL HIS WORK AGAINST DAMAGE FROM ANY SOURCE (INCLUDING BUT NOT LIMITED TO WATER, DUST, HEAT, FREEZING ETC.) UNTIL FINAL COMPLETION AND ACCEPTANCE BY THE OWNER.
- 11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND PERFORM ALL LABOR, MATERIAL, EQUIPMENT, INCIDENTALS, METHODS AND SERVICES REQUIRED TO INSTALL ALL WORK INDICATED COMPLETELY AND IN FULL OPERATION. CONTRACTOR SHALL PROVIDE ALL HANGERS, SUPPORTS, NUTS, BOLTS, AND GASKETS AS REQUIRED FOR PROPER SYSTEM INSTALLATION YSTEM INSTALLATION.
- 12. EACH CONTRACTOR SHALL REVIEW "ALL" PROJECT DOCUMENTS OF "ALL" TRADES REVIEWING ALL OF THE PROJECT REQUIREMENTS PRIOR TO BIDDING. DISCREPANCIES BETWEEN DOCUMENTS SHALL BE REPORTED AT THE TIME OF BID. 13. CONTRACTOR SHALL PROVIDE ALL PIPING SPECIALTIES AS INDICATED IN DESIGN DOCUMENTS OR NECESSARY FOR PROPER OPERATION OF SYSTEMS SHOWN ON THE
- 14. WHERE REQUIRED FOR CLEARANCE, TO AVOID INTERFERENCE OR EQUIPMENT CONNECTIONS, THE MECHANICAL CONTRACTOR SHALL OFFSET PIPES OR CONDUITS AS NECESSARY. SPECIAL FITTINGS OR ADAPTERS SHALL BE PROVIDED TO MAINTAIN GOOD FLOW CHARACTERISTICS. PROPERLY DRAIN AND DRIP WHERE

DRAWINGS.

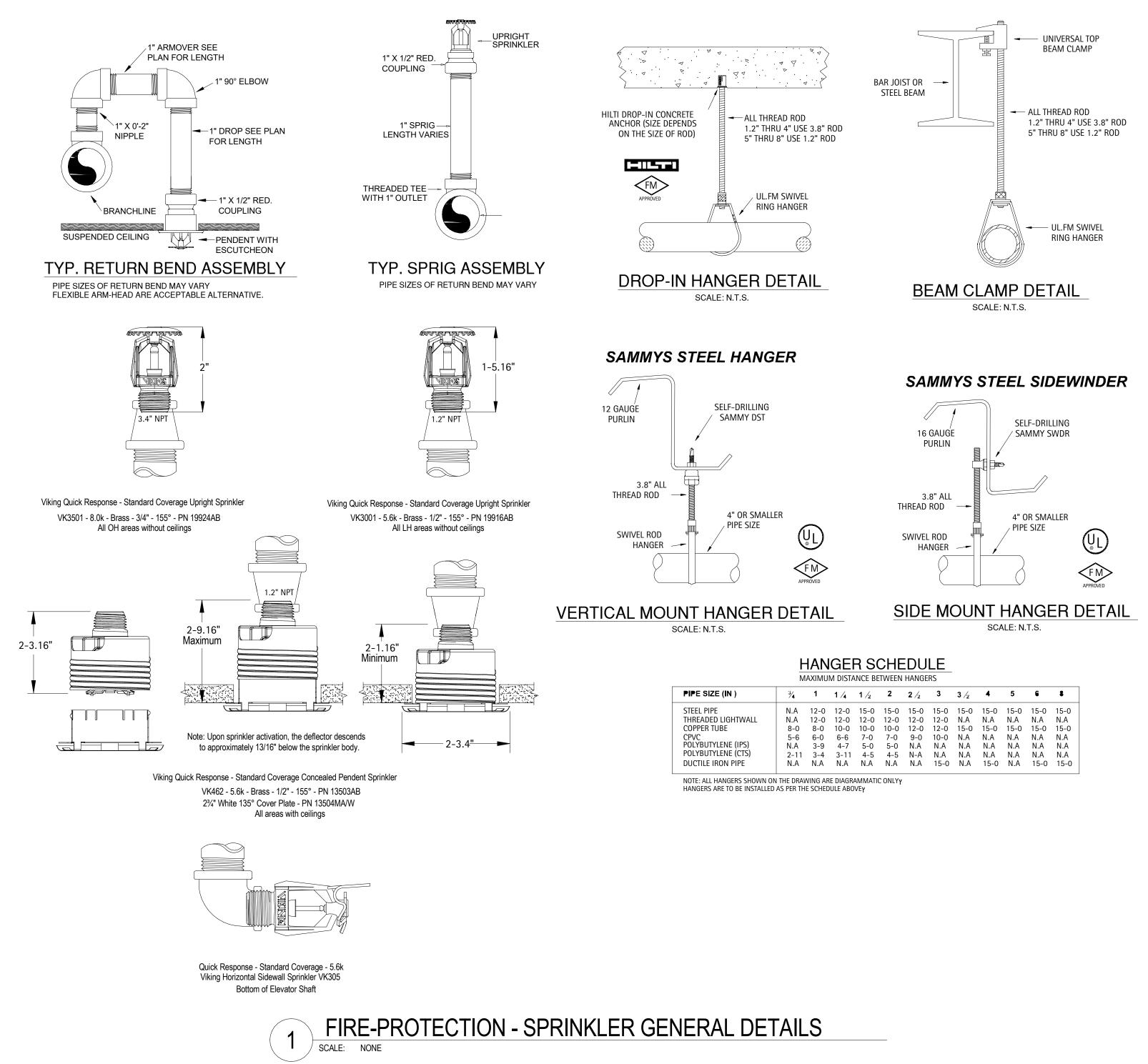
- NECESSARY 15. ALL WORK, EQUIPMENT AND MATERIALS SHALL BE PROTECTED AT ALL TIMES. ALL PIPE, DUCT AND EQUIPMENT OPENINGS SHALL BE PROPERLY CAPPED OR PLUGGED DURING
- INSTALLATION
   PROVIDE STEEL SLEEVES FOR ALL DUCTWORK AND PIPING THAT PASS THROUGH WALLS, FLOORS, CEILING AND ROOF. SEAL PENETRATION WITH AN APPROVED FIRE-STOPPING SYSTEM.
- UNLESS OTHERWISE NOTED, ALL PARTS, EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL BE ASME AND/OR UL-APPROVED.
- 18. CONTRACTOR SHALL COMPLETE ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF THE WORK, CUTTING AND PATCHING SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER. PATCHING MATERIALS SHALL MATCH EXISTING MATERIALS TO THE GREATEST EXTENT POSSIBLE. PROVIDE TOUCH-UP PAINT TO MATCH EXISTING SURROUNDING AREAS OF CUTTING AND PATCHING WORK.
- 19. PRIOR TO ACCEPTANCE OF THE PROJECT, ALL SYSTEMS SHALL BE TESTED, BALANCED AND OPERATED TO DEMONSTRATE TO THE OWNER OR HIS DESIGNATED REPRESENTATIVE THAT THE DESIGNATED REPRESENTATIVE THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS AND/OR PARTS THEREOF CONFORM TO DESIGN

(1) FIRE PROTECTION GENERAL NOTES √F000 / NOT TO SCALE

### FIRE PROTECTION SPRINKLER SYSTEM NOTES

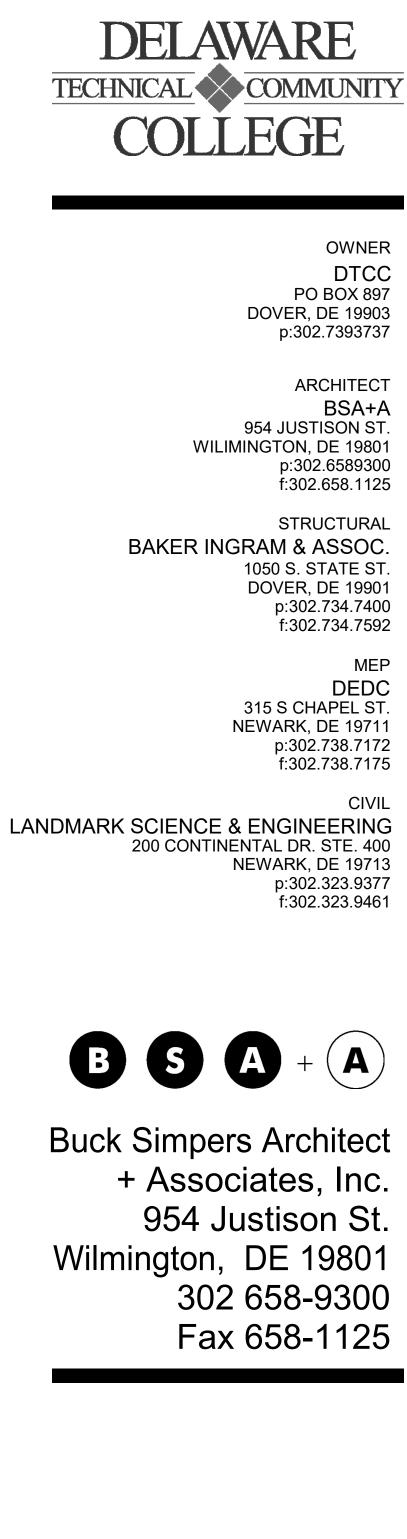
- THIS PROJECT SHALL BE PROVIDE WITH FULLY OPERATIONAL AUTOMATIC WET SPRINKLER SYSTEM FIRE-PUMP FOR THE ENTIRE BUILDING IN PHASES AS INDICATED. THE GENERAL CONTRACTOR SHALL HIRE A FIRE PROTECTION COMPANY TO ENGINEER AND INSTALL A COMPLETE SYSTEM AS REQUIRED.
- INSTALLATION SHALL CONFORM TO NFPA-13, THE TOWNSHIP FIRE CODES AND ALL OTHER LOCAL CODES AND ORDINANCES.
- PROVIDE ALL REQUIRED HANGERS, SUPPORT SYSTEMS REQUIRED FOR FIRE PROTECTION SYSTEM INSTALLATION. ALL HANGERS AND SUPPORTS SHALL BE DESIGNED AND/ OR INSTALLED IN ACCORDANCE WITH NFPA-13.
- NEW SPRINKLER HEADS SHALL BE LOCATED IN AN ARRANGEMENT TO COMPLY WITH THE REQUIREMENTS OF THE FIRE CODE REGULATION.
- ALL SPRINKLER HEADS, SHALL BE RECESSED w/ COVER, QUICK RESPONSE TYPE, SIMILAR TO VIKING 'M' SERIES TO MATCH ROOM TYPE. COORDINATE WITH ARCHITECTURAL PLANS. EACH HEAD SHALL BE PROPERLY SELECTED FOR THE TEMPERATURE FOR THE SPACE REQUIRED BY NFPA-13
- 6. ALL SPRINKLER HEADS SHALL BE LOCATED CENTER OF TILE AND FINISHED. PROVIDE ALL SHOP DRAWING SUBMISSIONS TO THE FIRE MARSHAL'S OFFICE FOR ALL REVIEWS AND APPROVALS. PROVIDE PAYMENT FOR ALL FEES FOR INSPECTION AND REVIEW SERVICES AS REQUIRED BY FIRE MARSHALL'S OFFICE. ALL SUBMISSIONS SHALL HAVE ALL REQUIRED INSTALLATION DATA AND CALCULATIONS REQUIRED FOR FIRE MARSHALL
- CONTRACTOR SHALL PERFORM ALL REQUIRED SYSTEM TESTING ON THE SYSTEM INSTALLATION IN ACCORDANCE WITH NFPA-123, THE DELAWARE STATE FIRE CODE AND ALL LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE HYDROSTATIC PRESSURE TEST OF SYSTEM AT 50PSI OVER NORMAL SYSTEM WORKING PRESSURE FOR 2-HOURS WITHOUT LEAKS. PERFORM TESTS ON ALL FIRE PROTECTION SYSTEM IN THE PRESENCE OF THE AUTHORITIES HAVING JURISDICTION. PROPERLY FLUSH THE PIPING SYSTEM AS REQUIRED WITH NFPA-13. CONTRACTOR SHALL PROVIDE ALL REPORTS, RECORDS AND DOCUMENTATION TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- 9. UNDERGROUND PIPING TO BE INSTALLED, FLUSHED AND TESTED BY OTHERS 10. ALL ALARMS AND CONNECTIONS BY OTHERS. ALL ELECTRIC SUPPLIES AND CONNECTIONS BY OTHERS. ALL SYSTEM SUPERVISION BY OTHERS.
- ALL TEST AND DRAIN CONNECTIONS ACCORDING TO CODE. ALL HANGERS TO BE ACCORDING TO CODE AND SELECTED BASED ON INDUSTRY STANDARD.SYSTEM TO BE HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HOURS, 2" DRAIN TEST, AND ALARM TEST TO BE WITNESSED BY TOWNSHIP AUTHORITY OR OWNER RFP
- 12. COLD STORAGE AREAS SHALL BE PROTECTED WITH ESFR TECHNOLOGY SPRINKLERS DESIGNED WITH DRY PENDENT. IN ADDITION, WET-PIPE SPRINKLERS SHALL BE PROVIDED ABOVE THE COLD STORAGE CEILINGS AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICATION.
- PROVIDE COVERAGE AS FOLLOWS:
   A. ORDINARY HAZARDS (GROUP 1 COVERAGE): KITCHEN; DINING AREA.

REVIEW.



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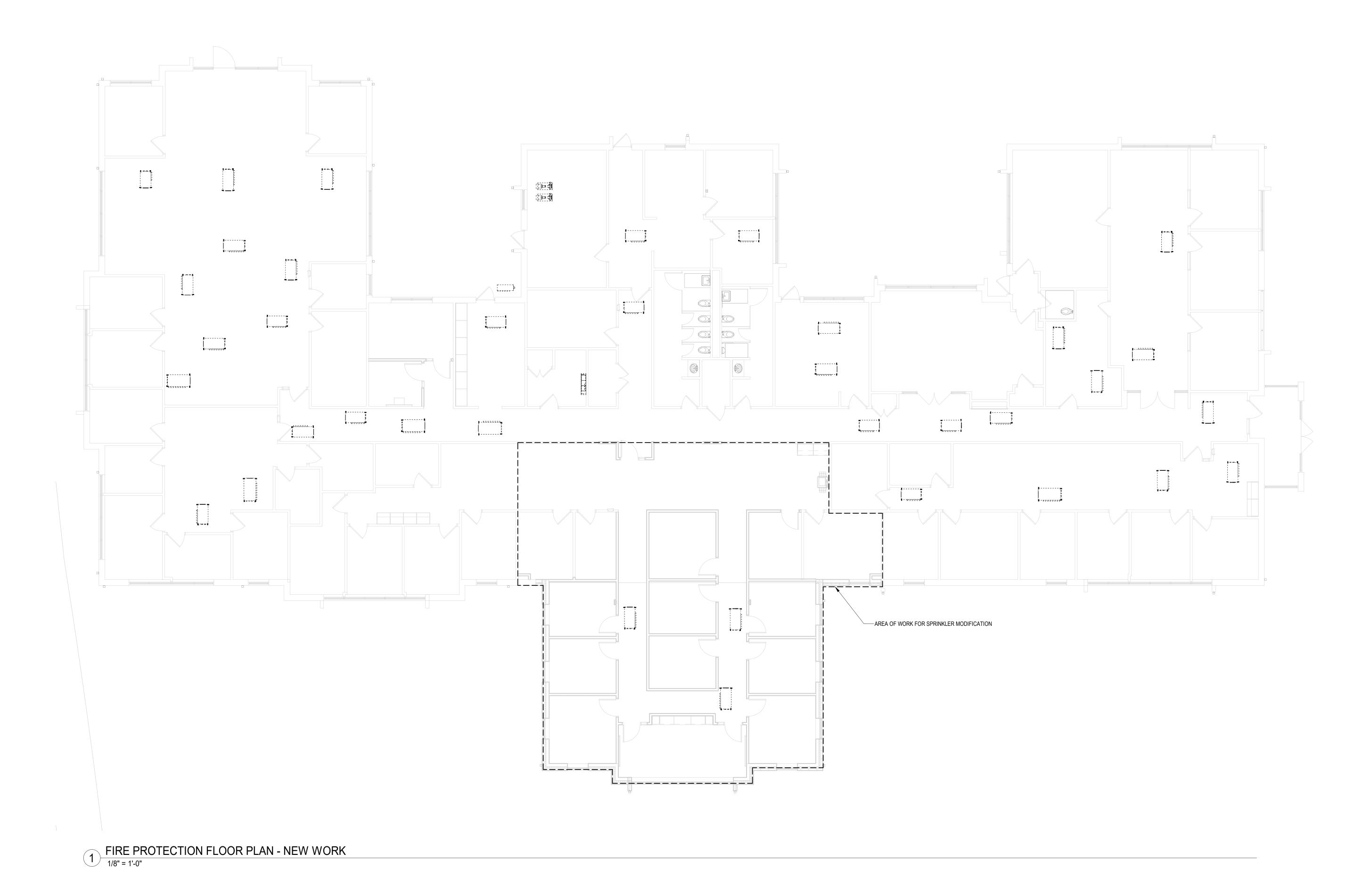
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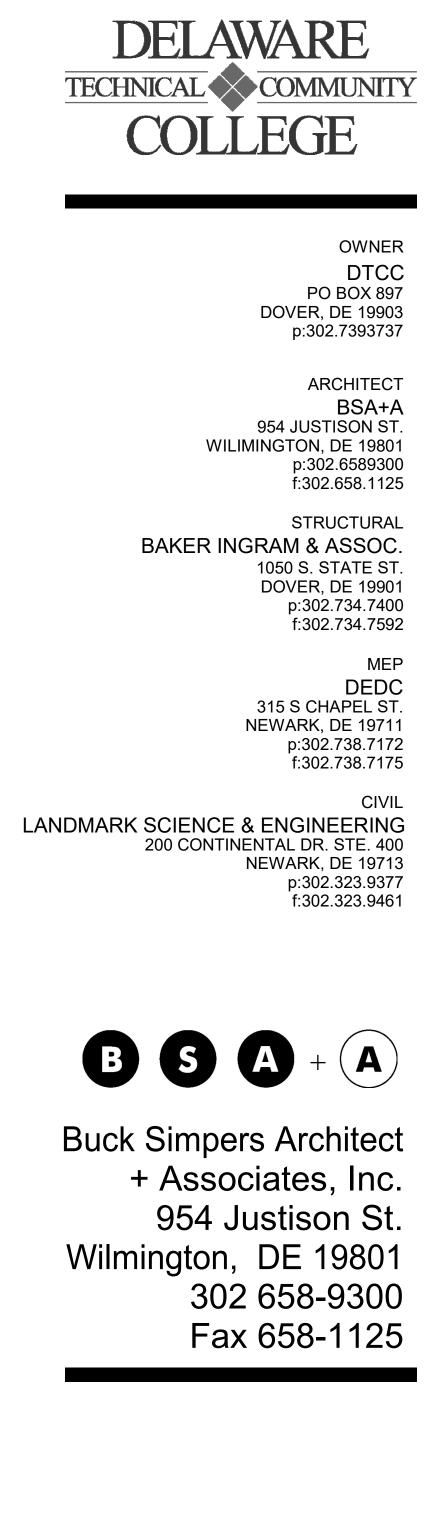
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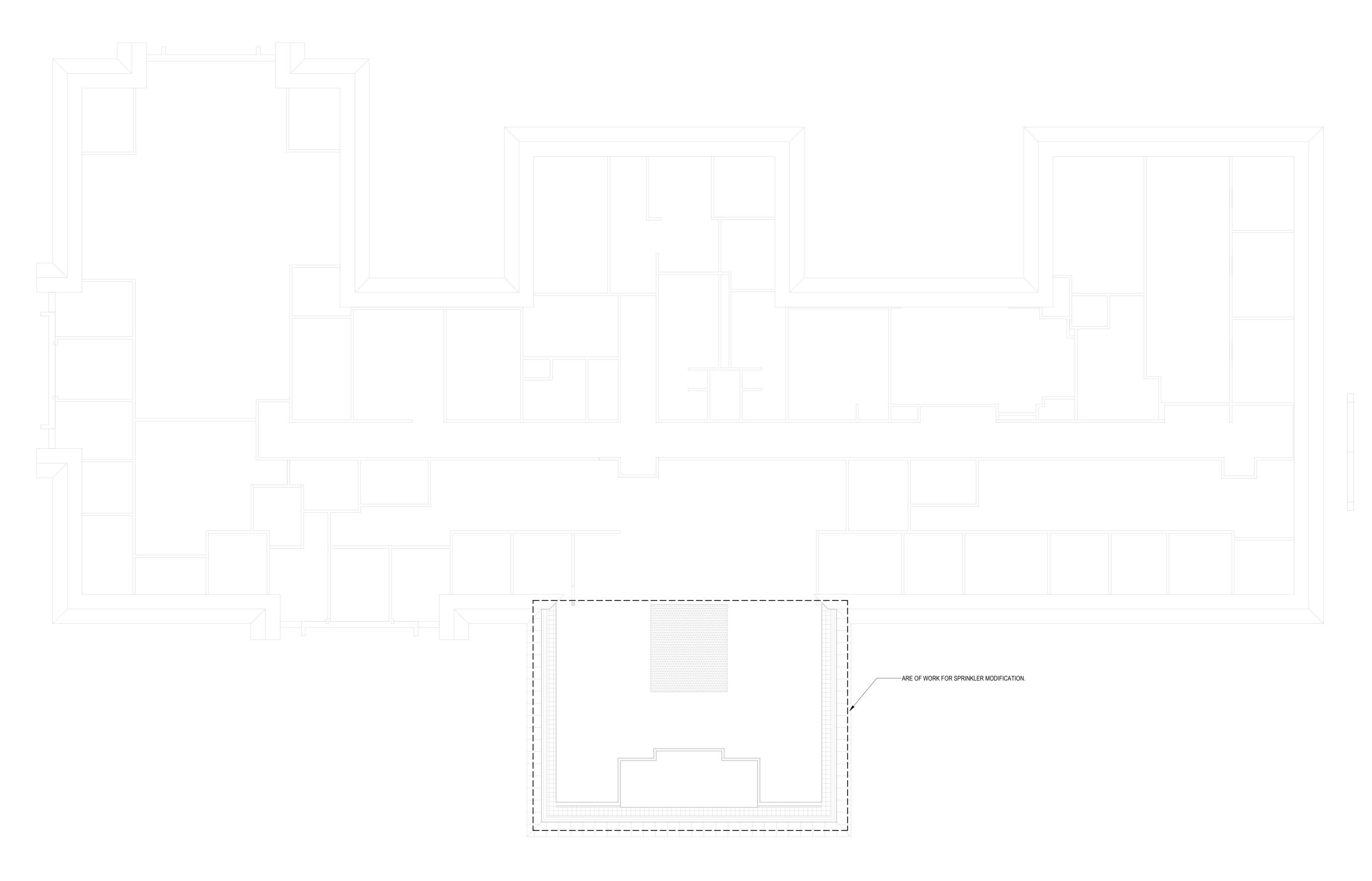


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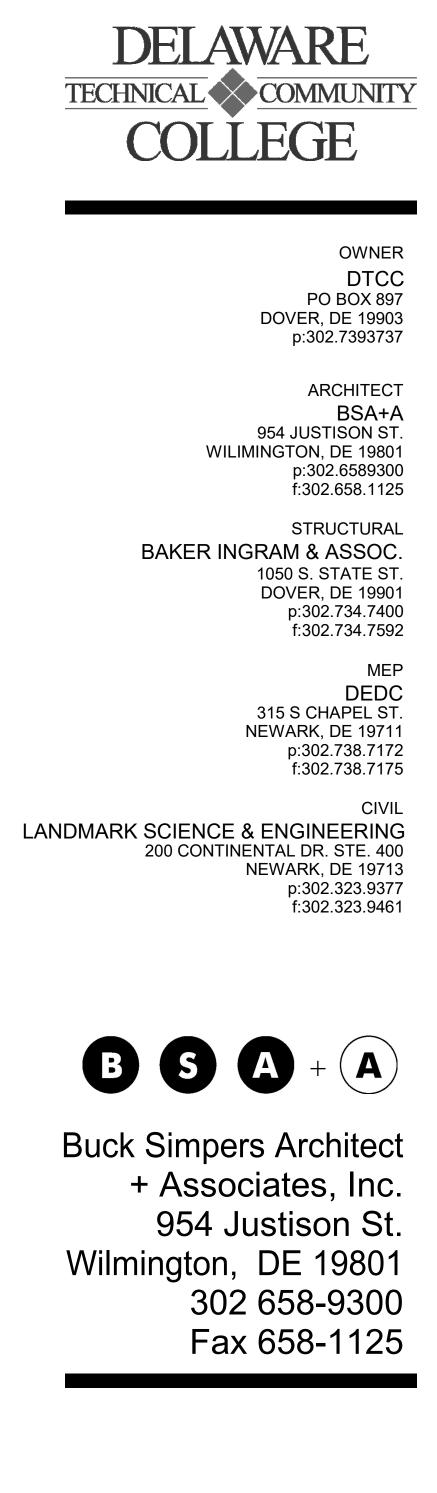






1 FIRE PROTECTION ATTIC PLAN - NEW WORK 1/8" = 1'-0"

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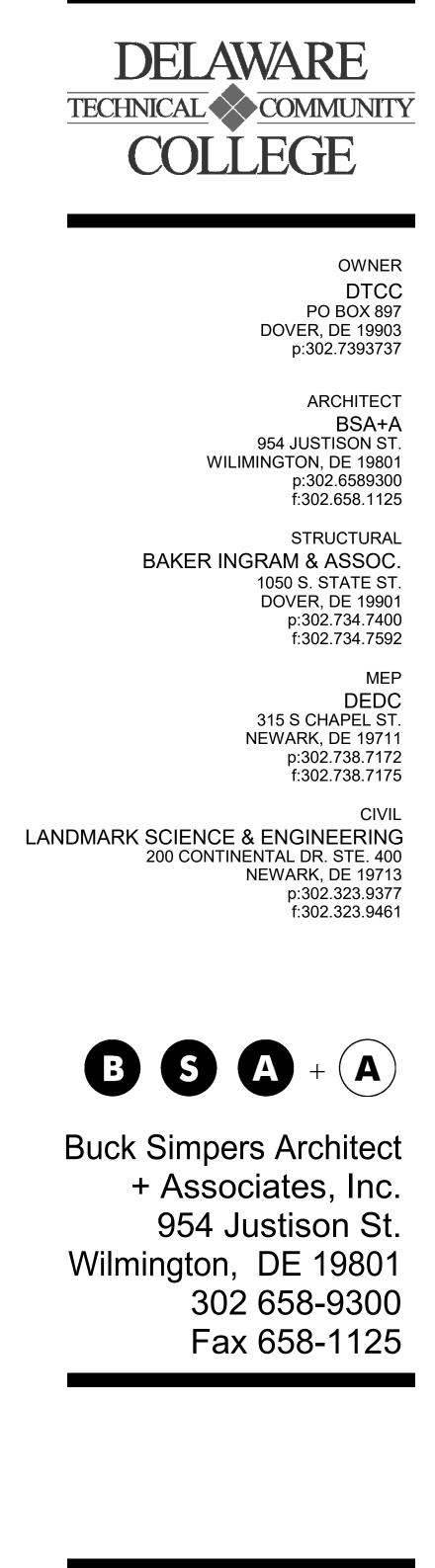


| GENERAL MECHANICAL SYMBOLS   | PLUMBING ANI   | D PIPING SYMBOLS   | HVAC SYMBOLS   |   | FIRE PROTECTION GENERAL NOTES   | PROJECT GENERAL NOTES  |
|--|--|--|--|---|---|--|
| REVISION NUMBER - SHOV<br>POINT WHERE NEW CONN   |  | CHILLED WATER RETURN     CHILLED WATER SUPPLY                          | 16x8 SQUARE DUCT SIZE TAG (WIDTH x HEIGH   | SHT)  | PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS               | <ul> <li>* REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.</li> <li>* THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO<br/>FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN</li> </ul>  |
| POINT WHERE NEW CONN<br>POINT WHERE DEMO DISC  |  | CONDENSATE DRAIN   | 16/8OVAL DUCT SIZE TAG (WIDTH / HEIGHT)  |   | REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE<br>INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND<br>AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL | <ul> <li>TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.</li> <li>* THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING<br/>EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS</li> </ul>  |
| - NUMBER OF DETAIL ON SH   | EET  | - CONDENSER WATER SUPPLY   | 16Ø ROUND DUCT SIZE TAG (DIAMETER)   | *   | FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.<br>THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN<br>PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE                    | AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS,<br>MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A<br>COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE,  |
|  |  | <ul> <li>HEATING WATER RETURN</li> <li>HEATING WATER SUPPLY</li> </ul> | DUCT BEING DEMOLISHED  | *   | REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.<br>THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL<br>CONTRACTOR PRIOR TO STARTING WORK.   | PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.   |
|  | G  | - NATURAL GAS<br>PROPANE GAS   | SA SUPPLY AIR  | *   | PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND  | * WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT<br>CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO  |
| Room     3   ROOM NAME AND NUMBER  | REF-L  | - REFRIGERANT - LIQUID   | S-OA CONDITIONED OUTSIDE AIR   |   | ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO<br>MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE,<br>LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND           | <ul> <li>START OF WORK.</li> <li>* COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY,<br/>STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.</li> </ul>   |
|  | DLISHED REF-S  |  | OA OUTSIDE AIR   | *   | FACTORY MUTUAL.<br>THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA<br>OBTAINED AT OR NEAR THE JOB SITE.   | * THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE<br>ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY<br>ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION,   |
|  | STM<br>CDR   | STEAM     CONDENSATE RETURN  | RA RETURN AIR  | *   | REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.   | PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.<br>* FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO  |
| 2"     PIPE SIZE TAG (DIAMETER)  |  | COMBINATION WASTE AND VENT   | EA EXHAUST AIR   | *   | DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR<br>PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH<br>FIRE SPRINKLER SYSTEM.  | ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT<br>LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.<br>* LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.   |
|  | CW   | - DOMESTIC COLD WATER  | LA RELIEF AIR  | *   | ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING<br>SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM<br>THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED        | <ul> <li>* ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.</li> <li>* LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE</li> </ul>  |
| INVERT: -10' - 1" PIPE INVERT ELEVATION TAG  | ——————————————————————————————————————   |  | G-EA GREASE EXHAUST AIR  | *   | CEILING.<br>THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO   | <ul> <li>ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.</li> <li>* FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. REFER TO<br/>SPECIFICATION.</li> </ul>  |
| EXISTING PIPE TAG<br>PIPING BEING DEMOLISHED   |  | FILTERED COLD WATER<br>REVERSED OSMOSIS WATER                          | SHOKE EXHAUST AIR  | *   | ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.<br>AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS<br>ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED | * PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.   |
| FIRE PROTECTION SYMBOLS  | ——————————————————————————————————————   |  | FLUE EXHAUST GAS FLUE  | *   | RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS<br>THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.<br>AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING       | <ul> <li>* ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.</li> <li>* REFER TO PLUMBING SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.</li> <li>* PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS</li> </ul>   |
| FP-DFIRE PROTECTION DRY  | ——————————————————————————————————————   | - DOMESTIC HOT WATER RETURN  | CA COMBUSTION AIR  |   | SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.  | SHOWN.<br>* FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS,  |
| FP-0     FIRE PROTECTION OTHER       FP-PA     FIRE PROTECTION PRE-ACTION  |  | DOMESTIC HOT WATER RETURN 140 <sup>o</sup><br>GREASE VENT              | DROP   |   | AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE.<br>THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN<br>ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE       | REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.<br>* INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN<br>INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH   |
| FIRE PROTECTION WET  |  | GREASE WASTE   | DROP   |   | TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY<br>SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.<br>SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.   | THE SPECIFICATIONS.<br>* LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE<br>APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE  |
| UPRIGHT SPRINKLER HEAD   |  | OIL VENT<br>OIL WASTE  | DROP 🖉 🚺 ROUND RETURN/TRANSFER AIR DUCT RIS  | RISE *  | FLOW TEST DATA FROM #/#/# INDICATES THE FOLLOWING: STATIC PRESSURE # PSI. RESIDUAL PRESSURE: # PSI AT ## GPM. THE HYDRANTS TESTED ARE APPROXIMATELY ### FEET AWAY   | COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.<br>* INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT<br>CEILINGS.  |
| RECESSED SPRINKLER HEAD  |  | PUMP DISCHARGE   | DROP   | UCT RISE                                      | FROM THE CENTER OF THE SITE LOCATED OFF THE ##" WATER MAIN IN ## STREET AT AN ELEVATION OF ### FEET ABOVE SEA LEVEL. SEE CIVIL PLANS FOR HYDRANT LOCATION. THE CONTRACTOR SHALL PERFORM A FIRE FLOW TEST IN ACCORDANCE WITH NFPA 291 TO VERIFY    | MECHANICAL SHEET INDEX   |
| CONCEALED SPRINKLER HEAD   |  | VENT<br>SANITARY SEWER   | DROP 🛛 🖸 ROUND EXHAUST/RELIEF AIR DUCT RISE  |   | THE FLOW TEST DATA GIVEN ABOVE. THE DATA GIVEN ABOVE SHALL BE THE BASIS OF DESIGN<br>UNLESS THE AVAILABLE PRESSURE OR FLOW HAS DECREASED. NOTIFY OWNERS<br>REPRESENTATIVE IF FLOW TEST DATA DIFFERS FROM THE DATA ABOVE. A FIRE PROTECTION        | M000 MECHANICAL TITLE SHEET  |
| SIDEWALL SPRINKLER HEAD  | IKLER HEAD   | SOLAR HOT WATER RETURN<br>SOLAR HOT WATER SUPPLY                       | TYPE (SEE SCHEDULE)  | <u>G</u>                                      | ENGINEER OR AN ENGINEER EXPERIENCED IN WATER FLOW TESTING SHALL PERFORM OR<br>WITNESS THE REQUIRED FLOW TESTING AND SIGN THE REPORT PRIOR TO THE FIRST<br>SPRINKLER SYSTEM SUBMITTAL.   | PH001 PHASING PLAN<br>MD101 MECHANICAL FLOOR PLAN - DEMOLITION   |
|  |  | STORM DRAIN<br>OVERFLOW STORM DRAIN                                    | 3-CONE DIFFUSER  | 100FPM/ 50FPM                                 | ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS,<br>SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH<br>ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE                | MD111 MECHANICAL PIPING FLOOR PLAN - DEMOLITION<br>M101 MECHANICAL - HVAC - FLOOR PLAN - NEW WORK<br>M102 MECHANICAL - HVAC - ATTIC PLAN - NEW WORK  |
| 48x18 SA OBSTRUCTION FROM DUCTWORK 48"<br>AND GREATER  | PIPE DROP  | 4" 4" 2"   |  |   | SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.<br>THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY.  | M111 MECHANICAL PIPING FLOOR PLAN - NEW WORK<br>M501 MECHANICAL DETAILS  |
| ABBREVIATIONS  | PIPE RISE C  | PLUG<br>∠"   | PERFORATED DIFFUSER SD3 300<br>WITH DEFLECTORS RG2 500<br>12x10/ 24x24   |   | THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE<br>WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.<br>THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE   | M601 MECHANICAL SCHEDULES<br>M602 MECHANICAL SCHEDULES<br>M701 MECHANICAL CONTROL DIAGRAMS   |
| ROUND LVR LOUVER<br>BOVE LWT LEAVING WATER   | EMPERATURE   | DEGREE TEE<br>45 DEGREE TEE  |  | EGGCRATE RETURN<br>GRILLE                     | CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.  | M103 MECHANICAL - HVAC - RCP - NEW WORK<br>SECORE OF WEGHANICAL - HVAC - RCP - DEMOLITION  |
| R CONDITIONING M/A MIXED AIR<br>REA DRAIN MAX MAXIMUM<br>IDUM MBHONE THOUSAND I                                  | TU PER HOUR2" DOM. WM  | ESSORY TAGS<br>2" M-CNTRL  |  |   | PLUMBING GENERAL NOTES<br>FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW  | THE SCOPE OF WORK INCLUDES:  |
| BOVE FINISHED FLOORMCFONE THOUSANDNNUAL FUEL UTILIZATION EFFICIENCYMDMOTORIZEDLTERNATEMECHMECHANICAI             |  | MOTORIZED CONTROL VALVE  2" 3-WAY CNTRL  3 WAY MOTORIZED CONTROL VALVE |  | OUVERED GRILLE                                | CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.<br>PITCH UNDERFLOOR SANITARY WASTE AND STORM PIPING 3" AND GREATER AT 1/8" PER FOOT,  | <ul> <li>PROVIDE NEW ISOLATION VALVES ON THE EXISTING CWS/R LINES FOR ALL HEAT<br/>PUMPS. ISOLATION VALVES SHALL BE INSTALLED WHEN THE CWS/R LOOP IS SHUT<br/>DOWN AND DRAINED. CONTRACTOR SHALL BE RESPONISBLE FOR DRAINING AND</li> </ul>  |
| CCESS PANELMFRMANUFACTURERRCHITECT/ARCHITECTURALMIN MINIMUMELOW FINISHED FLOORMISCMISCMISCELLANE                 |  | 3 WAY MOTORIZED CONTROL VALVE<br>2" PRV<br>PRESSURE REDUCING VALVE     | TYPE (SEE SCHEDULE) LINEAR DAR GRILLE LINEAR DIFFUSER 1<br>CFM<br>TYPE (SEE SCHEDULE) LINEAR DIFFUSER 1<br>LINEAR DIFFUSER 1<br>CFM<br>NUMBER OF SLOTS |   | UNLESS NOTED OTHERWISE. PITCH ALL OTHER WASTE PIPING AT 1/4" PER FOOT UNLESS<br>OTHERWISE NOTED.<br>FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.  | <ul> <li>FILLING OF SYSTEM. COORDINATE SHUTDOWN TIME AND DURATION WITH OWNER.</li> <li>REMOVAL OF EXISTING HEAT PUMPS. CONTRACTOR SHALL PROVIDE TEMPORARY<br/>SERVICES AS REQUIRED TO KEEP EXISTING SYSTEMS OPERATIONAL.</li> </ul>  |
| ELOW MTR MOTOR<br>RITISH THERMAL UNITS MU/A MAKE-UP/AIF<br>RITISH THERMAL UNITS PER HOUR NC NOISE CRITE          |  | 3/8" SOLENOID<br>REFRIGERANT SOLENOID VALVE                            | 1/4' - 0" /8<br>8' - 0" AFF ACTIVE SLOT LENG   | GTH (PLENUM LENGTH) /                         | ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER<br>SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL<br>PLANS.   | <ul> <li>DEMO AND REMOVAL OF INTERCONNECTING PIPING AS INDICATED ON PLANS.</li> <li>FURNISH AND INSTALL NEW HEAT PUMPS, CONTROLS, AND INTEGRATION WITH</li> </ul>  |
| PACITY NC NORMALLY C<br>TCH BASIN NIC NOT IN CONT<br>FEET PER MINUTE NO NUMBER                                   | OSED<br>RACT 2" TMV<br>3-WAY MIXING VALVE  | 2" BUTTERFLY<br>BUTTERFLY VALVE  | LSD1         200           1/4' - 0" /8         ELEVATION (CENTE           18' - 0"         SECTION TOTAL TR   | ,<br>,<br>,                                   | WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.<br>PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.   | <ul> <li>EXISTING BAS.</li> <li>THE BUILDING WILL REMAIN OCCUPIED AND OPERATIONAL THROUGHOUT<br/>CONSTRUCTION.</li> </ul>  |
| EILING NO NORMALLY C<br>LEAN OUT NTS NOT TO SCALE  |  | E  | LINEAR SLOT DIFFUSER   | 11 200<br>4' - 0" /8<br>Γ COLLAR DAMPER *     |   | <ul> <li>CONTRACTOR SHALL PROVIDE OWNER WITH DAILY CONSTRUCTION PLAN TO INCLUDE A<br/>TWO WEEK PLANNING SCHEDULE. THE CONTRACTOR SHALL ALSO PROVIDE THE<br/>OWNER WITH A ONE WEEK NOTICE TO BEGIN WORK TO ALLOW CURRENT SPACE USERS</li> </ul>   |
| EGREE O/A OUTSIDE AIR<br>RY BULB ORDOVERFLOW ROOI  |  | HEDULE)  | <u>B</u> <u>B</u> <u>B</u> <u>MECHANICAL EQUIPMENT TAGS</u>  | *   | SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.<br>CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 5'-0" AFF, A<br>MINIMUM OF 8" FROM LIGHT SWITCH.   | <ul> <li>TO PREPARE OFFICES AND WORK SPACES FOR RENOVATION.</li> <li>CONTRACTOR SHALL BE REQUIRED TO WORK ONLY WHEN THE FACILITY IS<br/>UNOCCUPIED, EXISTING HEAT PUMPS SHALL BE REMOVED, NEW HEAT PUMPS HUNG,</li> </ul>  |
| AMETERPDPRESSURE DDWNPIVPOST INDICASTILLED WATERPLBGPLUMBING   | OR VALVE FLOOR SINK 4" FS-4  | 4" SD-12 FLOW CONTROL<br>DRAIN   | - HEATING COIL OPERATING WEIGHT  | RTU-XX         *           ✓ 505 lb         * | REFER TO PIPING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.<br>CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR<br>SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND        | DUCT TRANSITIONS INSTALLED, PIPED, AND ELECTRICALLY CONNECTED AND RUNNING<br>BY THE END OF THE WORK PERIOD. THE CONTRACTOR SHALL COORDINATE ALL<br>TRADES REQUIRED TO ACHIEVE THIS TASK.   |
| ACH PRESS PRESSURE<br>NTERING AIR TEMPERATURE PRV PRESSURE REDU<br>LECTRICAL PSI POUNDS PEF                      | SQUARE INCH  |  | FLOW NOT INCLUDING CURB  |   | LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.<br>PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT.   | <ul> <li>COORDINATE TIME, LOCATIONS, AND SEQUENCE OF HEAT PUMP REPLACEMENT WITH<br/>THE OWNER.</li> </ul>  |
| QUIPMENTPSIGPOUNDS PEF.ECTRIC WATER COOLERPWRPOWERING WATER TEMPERATURERDUCT RISER                               | SQUARE INCH GAUGE<br>SERVE<br>PLUMBING FIXTURE TAGS  | AREA 6" SD-1 COMBINATION<br>ED BY DRAIN + 4000 SF COMBINATION          | BOTTOM OF EQUIPMENT  | *   | COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.<br>ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF<br>2" W.G. UNLESS NOTED OTHERWISE.  | ALTERATIONS TO EXISTING SYSTEMS AND DEMOLITION:  |
| XHAUST AIR R/A RETURN AIR<br>XISTING RCP RADIANT CEILING<br>EGREES FAHRENHEIT RD ROOF DRAIN                      | PANEL TYPE (SEE SCHEDULE)  | LAV-1A   | NOMINAL COOLING<br>EXISTING EQUIPMENT CAPACITY<br>TO REMAIN  | ROOFTOP UNIT                                  | THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER<br>ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL<br>PUNCH.   | 1. IT IS THE INTENT THAT ALL EXISTING PIPING, DUCTWORK, FIXTURES, AND OTHER<br>EQUIPMENT AND MATERIALS THAT INTERFERE WITH THE ALTERED EXISTING BUILDING   |
| LOOR CLEAN OUT REC RECESSED<br>LOOR DRAIN RED REDUCER<br>IRE DAMPER RH RELATIVE HU                               | AIDITY WATER CLOSET -  | 1.5 HWFU<br>LAV-1A   | EQUIPMENT BT OTHERS  |   | CONTINUITY OF EXISTING SYSTEMS AND SERVICES:  | ARRANGEMENTS AND NEW SYSTEMS BE REMOVED, RELOCATED, REROUTED, OR<br>ABANDONED. THE DRAWINGS GENERALLY INDICATE MAJOR ITEMS OF EXISTING<br>MATERIALS AND EQUIPMENT THAT ARE TO BE REMOVED, RELOCATED, REROUTED, OR  |
| RE DEPARTMENT VALVE RL/ARELIEF AIR<br>LOOR RM ROOM<br>JEL OIL RPMREVOLUTIONS PE                                  |  | VC-1 1 WFU   | (REFER TO OTHER DISCIPLINE<br>FOR ADDITIONAL<br>INFORMATION) DATA DEVIC  | ICE TAGS                                      | 1. ALL WORK SHALL BE PERFORMED AT SUCH TIME AND IN SUCH MANNER AS WILL LEAST<br>INTERFERE WITH MAINTENANCE AND OPEATION OF OWNER'S ACTIVITIES. PROVISIONS   | ABANDONED BY EACH TRADE. IT IS NOT POSSIBLE TO INDICATE ALL RELATED<br>ACCESSORIES, SPECIALTIES, AND OTHER MINOR ITEMS. HOWEVER, THEIR REMOVAL,<br>RELOCATIONS, REROUTING, OR ABANDONMEN SHALL ALSO BE INCLUDED IN THIS  |
| JEL OIL VENT RW RAIN WATER<br>JEL OIL RETURN SF SQUARE FOO<br>JEL OIL SUPPLY S/A SUPPLY AIR                      | TAG  |  | SYMBOL<br>EQUIPMENT<br>CARBON DIOXIDE SENSOR CO2 TH RTU-XX TEMPERATU   | IT ID<br>FURE & HUMIDITY SENSOR               | SHALL BE MADE TO PERMIT OWNER'S USE OF ALL THE BUILDING AND OF EXISTING<br>SYSTEMS AT ALL TIMES. PROVIDE TEMPORARY FACILITIES TO SECURE TEHSE<br>CONDITIONS.  | CONTRACT AND SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.<br>2. EXISTING CONCEALED AND EXPOSED EQUIPMENT AND MATERIALS THAT WILL BECOME   |
| ER MINUTE SAN SANITARY<br>OOR SINK SF SQUARE FOO   | EQUIPMENT  | ABBREVIATIONS  | CARBON MONOXIDE SENSOR CO TS VAV-XX TEMPERATU  |   | <ol> <li>FULLY COORDINATE WITH OWNER AND ALL OTHER TRADES, ALL WORK INVOLVING<br/>SHUT-DOWN AND INTERRUPTION OF EXISTING SYSTEMS AND SERVICE.</li> <li>SHUT DOWN OF EXISTING SERVICES WHERE REQUIRED TO INSTALL NEW SYSTEMS OR</li> </ol>         | ABANDONED DUE TO NEW WORK SHALL BE REMOVED BACK TO ACTIVE RISER AND MAIN<br>AND PREPERLY PLUGGED OR CAPPED BEHIND FINISHED SURFACES.<br>3. EXISTING EQUIPMENT AND MATERIALS THAT ARE TO REMAIN, BUT BECOME EXPOSED<br>DUE TO NEWWORK SHALL BE DELOACTED. AND RECOMPLETED AS DIDECTED BY THE  |
| DOT/FEETSDSMOKE DAMN TUBE RADIATIONSMSURFACE MOALLONSPSTATIC PRESSUFFACE ANDSTATIC PRES                          | JNT AC AIR CONDITIONING UNIT<br>GURE ACC AIR COOLED CONDENSER                                  | EWH ELECTRIC WATER HEATER<br>FCU FAN COIL UNIT                         | NITROGEN DIOXIDE SENSOR NO2 T THERMOSTAT   |   | ALTER EXISTING, SHALL BE PERFORMED DURING HOURS THAT THE BUILDING IS BEING<br>USED BY OWNER. ALL COSTS FOR PERFORMING THIS WORK SHALL BE BORNE BY THE<br>CONTRACTOR AND WITHOUT ADDITIONAL COST TO THE OWNER.                                     | <ul> <li>DUE TO NEW WORK, SHALL BE RELOACTED, AND RECONNECTED AS DIRECTED BY THE ENGINEER.</li> <li>4. ALL WORK INVOLVING ALTERATIONS TO EXISTING SYTEMS, EQUIPMENT AND EXAMPLE DEPENDENT OF DEPENDENT AND EXAMPLE DEPENDENT OF DE</li></ul> |
| GENERAL CONTRACTOR     STM STEAM       GALLONS PER MINUTE     T       GREASE WASTE     TD       TEMPERATU     TD | E DROP ACCU AIR COOLING CONDENSING UNIT<br>AHU AIR HANDLING UNIT<br>AS AIR SEPARATOR           | FP FIRE PUMP<br>GI GREASE INTERCEPTOR<br>GRV GRAVITY ROOF VENTILATOR   | HUMIDITY SENSOR HS MS MANUAL SWITCH<br>HUMIDISTAT H S SENSOR   |   | 4. EXISTING SYSTEMS AND SERVICES THAT ARE TEMPORARILY DISCONNECTED, BUT ARE<br>TO REMAIN IN USE, SHALL BE PERMANENTLY RECONNECTED AND RETURNED TO   | <ul> <li>MATERIALS SHALL BE REVIEWED WITH THE ENGINEER AND OWNER BEFORE BEGINNING WORK.</li> <li>5. REMOVED EQUIPMENT AND MATERIALS NOT DESIRED BY THE OWNER SHALL BECOME</li> </ul>   |
| HOSE BIBTDR TRENCH DRAINHORSE POWERTEMPHEATINGTYP TYPICAL  | E B BOILER<br>CH CHILLER<br>CT COOLING TOWER   | HWP HEATING WATER PUMP<br>HX HEAT EXCHANGER<br>HRUHEAT RECOVERY UNIT   | DAMPER TAGS  |   | PROPER OPERATION.<br>5. FULLY COORDINATE WITH OWNER AND OTHER TRADES TO ENSURE COMPLETE<br>CONTINUITY OF ALL SYSTEMS AND SERVICES.  | PROPERTY OF CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM SITE.<br>EQUIPMENT AND MATERIALS DESIRED BY OWNER SHALL BE DELIVERED BY<br>CONTRACTOR TO AN ON-SITE STORAGE LOCATION DESIGNATED BY OWNER.  |
| EATER UG UNDERGROU<br>OT WATER V VENT<br>YDRANT VAV VARIABLE AIR VO  | ID CUH CABINET UNIT HEATER<br>CWP CONDENSER WATER PUMP   | PRV POWER ROOF VENTILATOR<br>RE RETURN/EXHAUST FAN                     |  |   |   |  |
|  |  | RTU ROOFTOP UNIT<br>SEP SEWAGE EJECTOR PUMP                            |  |   |   |  |
| NDIRECT VENT VENTILATION<br>NCH VTR VENT THROUGH I<br>NVERT W WASTE  | DOF DOMESTIC WATER BOOSTER PUMP<br>DC DUCT MOUNTED COIL<br>DCP DOMESTIC WATER CIRCULATING PUMP | SF SUPPLY FAN<br>SP SUMP PUMP  | SMOKE DAMPER S BACKDRAFT   | T DAMPER                                      | <u>* NOTE *</u>   |  |

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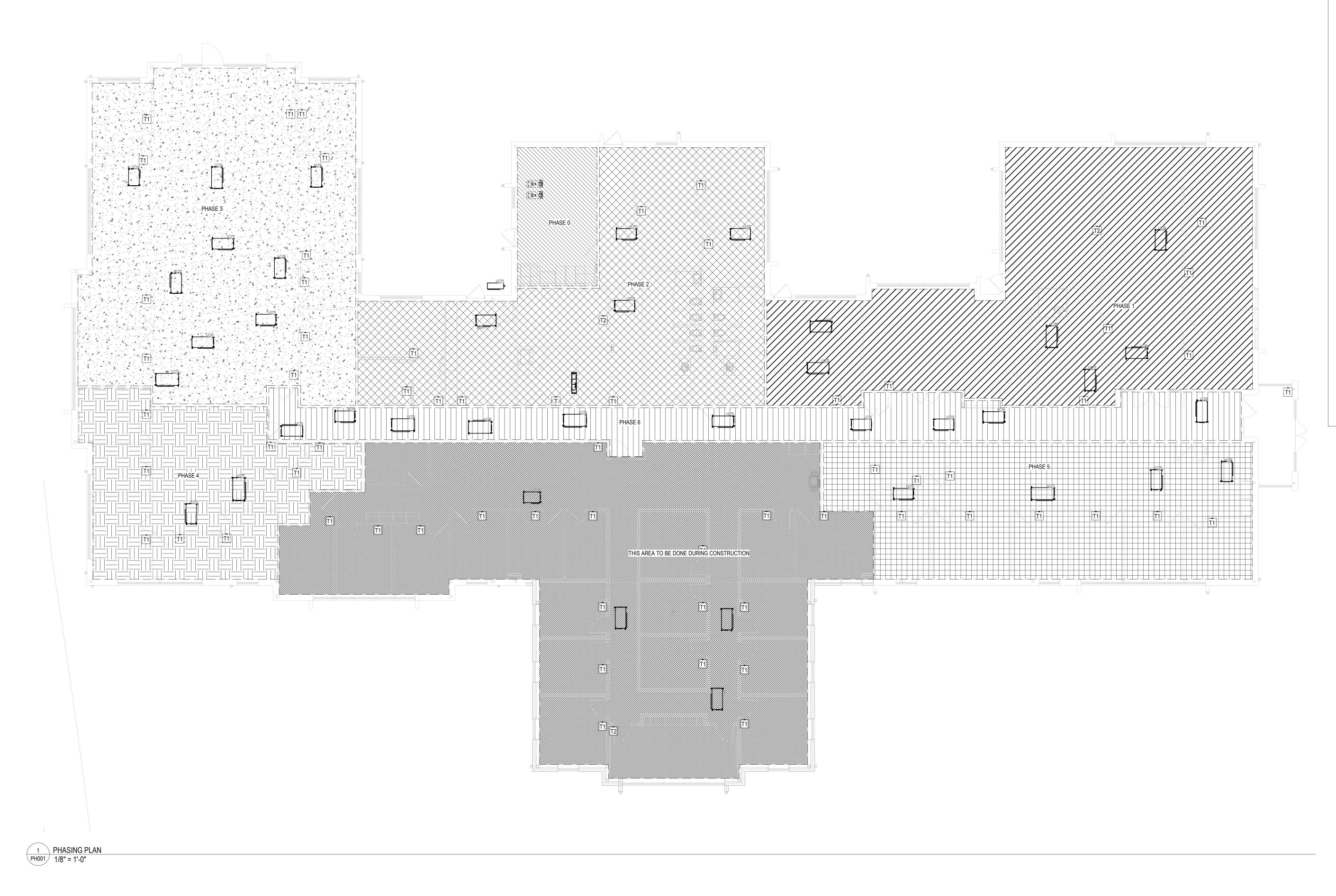
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## PHASING SCOPE OF WORK:

THE SCOPE OF WORK SHALL BE PERFORMED IN THE FOLLOWING PHASES IN THE AREAS MARKED:

### PHASE 0:

- CONTRACTOR SHALL SHUT DOWN THE HYDRONIC SYSTEM AND DRAIN THE SYSTEM. INSTALL NEW MANUAL ISOLATION VALVES SHOWN ON DRAWING M111.
- PROVIDE NEW ISOLATION VALVES ON THE EXISTING CWS/R LINES FOR ALL HEAT PUMPS. ISOLATION VALVES SHALL BE INSTALLED WHEN THE CWS/R LOOP IS SHUT DOWN AND DRAINED. CONTRACTOR SHALL BE RESPONISBLE FOR DRAINING AND
- FILLING OF SYSTEM. COORDINATE SHUTDOWN TIME AND DURATION WITH OWNER. CONTRACTOR SHALL INSTALL HYDRONIC PIPE TAPS IN EXISTING 4" CWS/R FOR EXPANSION AREA AND CAP UNTIL CONSTRUCTION FOR EXPANSION BEGINS.

### <u>PHASE 1:</u> REMOVAL OF EXISTING HEAT PUMPS. CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES AS REQUIRED TO KEEP EXISTING SYSTEMS OPERATIONAL.

DEMO AND REMOVAL OF INTERCONNECTING PIPING AS INDICATED ON PLANS. FURNISH AND INSTALL NEW HEAT PUMPS, CONTROLS, AND INTEGRATION WITH EXISTING BAS.

## PHASE 2:

- REMOVAL OF EXISTING HEAT PUMPS. CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES AS REQUIRED TO KEEP EXISTING SYSTEMS OPERATIONAL.
- DEMO AND REMOVAL OF INTERCONNECTING PIPING AS INDICATED ON PLANS. FURNISH AND INSTALL NEW HEAT PUMPS, CONTROLS, AND INTEGRATION WITH EXISTING BAS.

## PHASE 3:

- REMOVAL OF EXISTING HEAT PUMPS. CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES AS REQUIRED TO KEEP EXISTING SYSTEMS OPERATIONAL.
- DEMO AND REMOVAL OF INTERCONNECTING PIPING AS INDICATED ON PLANS.
- FURNISH AND INSTALL NEW HEAT PUMPS, CONTROLS, AND INTEGRATION WITH EXISTING BAS. PHASE 4:

### REMOVAL OF EXISTING HEAT PUMPS. CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES AS REQUIRED TO KEEP EXISTING SYSTEMS OPERATIONAL.

- DEMO AND REMOVAL OF INTERCONNECTING PIPING AS INDICATED ON PLANS.
- FURNISH AND INSTALL NEW HEAT PUMPS, CONTROLS, AND INTEGRATION WITH EXISTING BAS. PHASE 5:

# REMOVAL OF EXISTING HEAT PUMPS. CONTRACTOR SHALL PROVIDE TEMPORARY

SERVICES AS REQUIRED TO KEEP EXISTING SYSTEMS OPERATIONAL. DEMO AND REMOVAL OF INTERCONNECTING PIPING AS INDICATED ON PLANS. FURNISH AND INSTALL NEW HEAT PUMPS, CONTROLS, AND INTEGRATION WITH EXISTING BAS.

# PHASE 6:

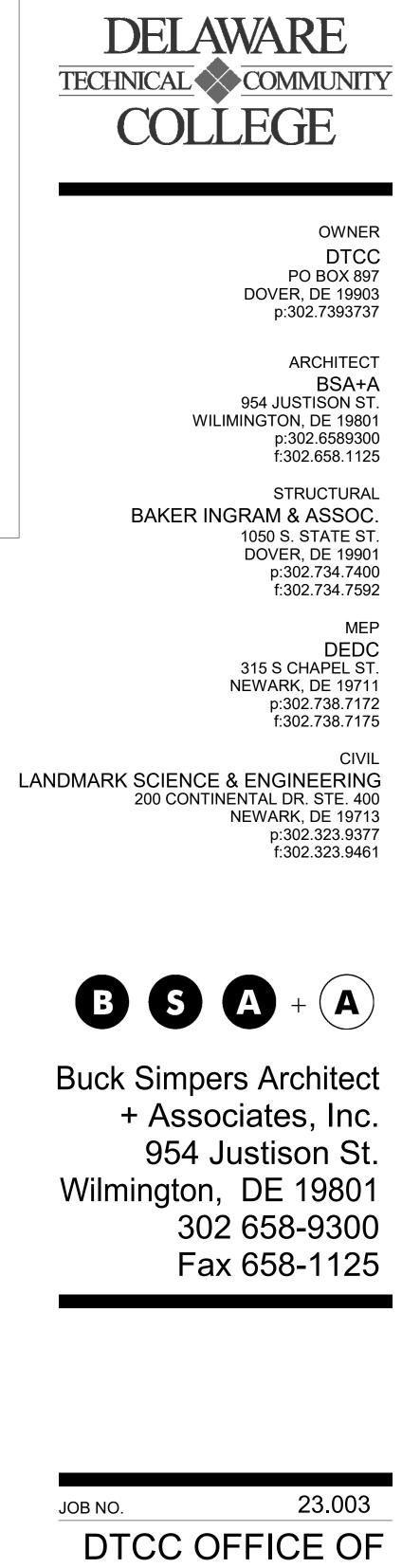
- REMOVAL OF EXISTING HEAT PUMPS. CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES AS REQUIRED TO KEEP EXISTING SYSTEMS OPERATIONAL.
- DEMO AND REMOVAL OF INTERCONNECTING PIPING AS INDICATED ON PLANS. FURNISH AND INSTALL NEW HEAT PUMPS, CONTROLS, AND INTEGRATION WITH EXISTING BAS.

## AREA OF WORK TO BE DONE DURING CONSTRUCTION:

REFER TO DRAWINGS M101, M102, M111, P101 FOR SCOPE OF WORK.

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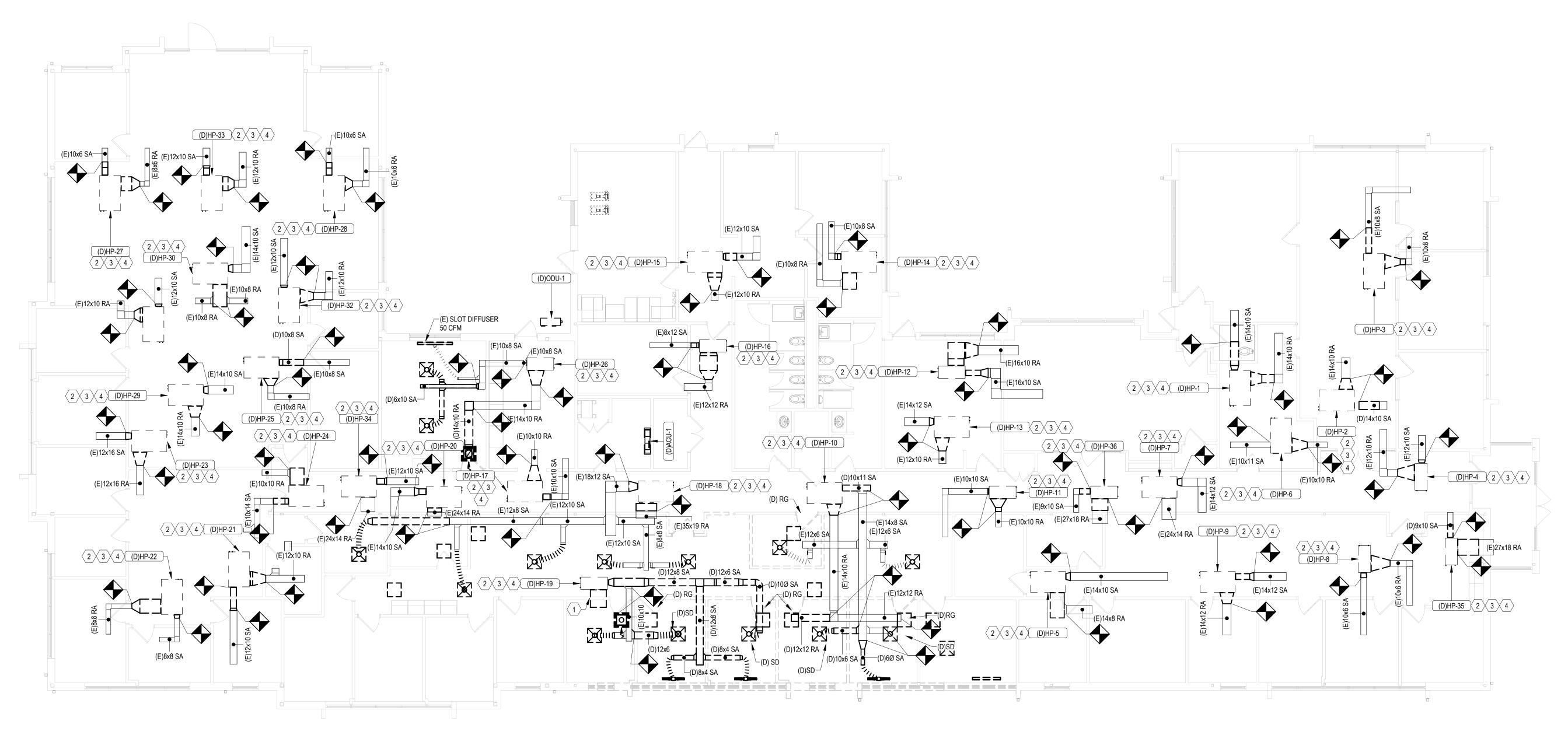
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EXPANSION



MECHANICAL - HVAC - FIRST FLOOR - DEMOLTION 1 IVIECHAI 1/8" = 1'-0"

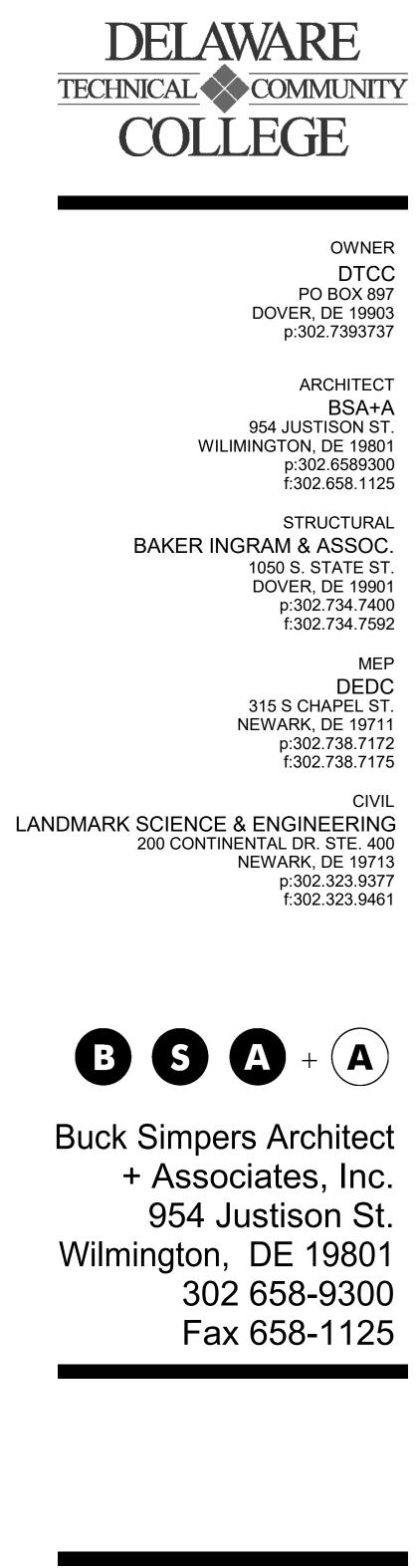
## **GENERAL NOTES:**

- 1. CEILING TILES SHALL BE MAINTAINED AND REPLACED AFTER THE DEMOLITION AND RE-INSTALLATION OF WSHPS.
- 2. SCHEDULE ALL SHUTDOWNS THAT EFFECT UTILITIES AND PORTIONS OF THE BUIDLING THAT MUST REMAIN IN OPERATION WITH THE OWNER. 3. DEMOLITION WORK AT ALL TIMES SHALL BE SUBJECT OT THE DIRECTION AND APPROVAL OF THE OWNER
- AND BE CARRIED OUT IN SUCH A MANNER SO AS TO NOT INTERFERE WITH THE NORMAL OPERATION OF THE BUILDING. 4. ISOLATE, DRAIN, AND REFILL EXISTING SYSTEMS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW SYSTEMS. PROVIDE ALL NECESSARY TEMPORARY OR
- PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED. 5. ALL WORK SHALL BE PERFORMED N A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERVISED TO MINIMUZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING.ALL OTHER AREAS ARE TO REMAIN INOPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TAPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA. DURING DEMOLITION AND NEW WORK, CONTRACTOR SHALL PROVIDE PROTECTION OF EXISTING UTILITIES (I.E. HVAC, WIFI, ETC.) IN AREAS WHERE WORK IS WITHING 8'-0"OF EXISTING
- UTILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL, REINSTALLATION, AND REPLACEMENT (IF DAMAGED) OF ALL CEILING TILES, LIGHTS, DIFFUSERS, OCCUPANCY SENSORS, FIRE ALARM DEVICES, AND SPRINKLER ESCUTCHEON PLATES, ETC. REQUIRED TO BE RELOCATED TO IMPLETEMENT THE REQUIRED DEMOLITION AND NEW WORK SCOPE. COORDINATE SCOPE WITH
- CONTRACTOR AND OTHER TRADES. . FIELD LOCATED NEW THERMOSTAT LOCATIONS WITH OWNER PRIOR TO INSTALLATION. REMOVE EXISTING THERMOSTATS AND PATCH AND PAINT WALL AS REQUIRED.
- 8. ALL GRD'S, EXCLUDING LINEAR SLOT DIFFUSERS AS NOTED ON THE DRAWINGS, IN THE BUILDING SHALL BE REPLACED. CONTRACTOR SHALL RECORD ALL SIZES OF GRD'S PRIOR TO DEMOLITION AND SUBMIT INFORMATION TO ENGINEER FOR REVIEW.

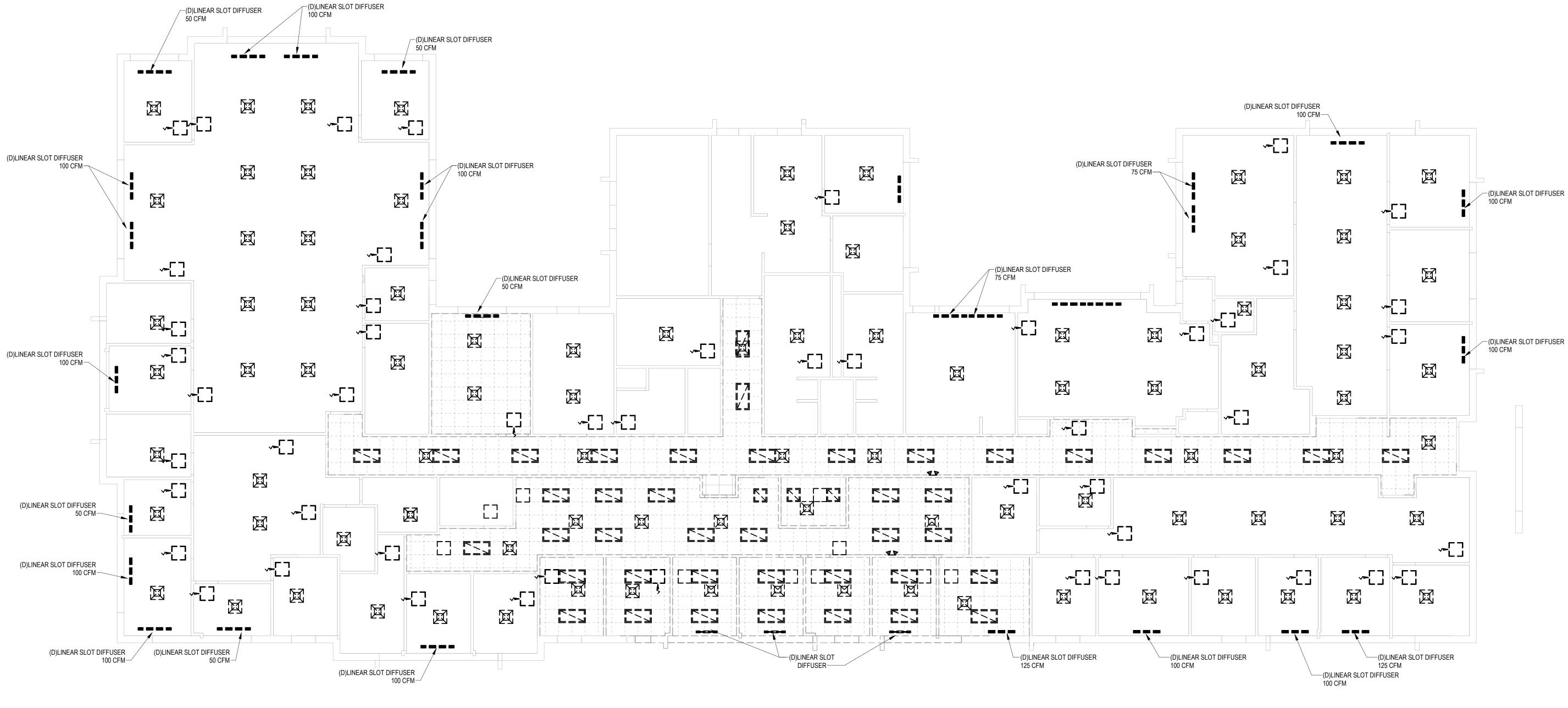
## DRAWING NOTES:

- $\langle 1 \rangle$  disconnect existing on duct and maintain for RECONNECTION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
- 2 REMOVE EXISTING WATER SOURCE HEAT PUMP AND ASSOCIATED HANGERS, SUPPORTS, DRAIN PANS, AND APPURTENANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR DISCONNECTING AND REMOVING LIGHTING, FIRE ALARM DEVICES, SPEAKERS, CEILING TILES, AND GRID AS REQUIRED TO REPLACE THE EXISTING WATER SOURCE HEAT PUMP.
- 3 DEMO DUCTWORK AND PIPING BACK TO INDICATED POINTS AS REQUIRED TO REPLACE EXISTING WATER SOURCED HEAT PUMPS. SEE DETAIL 16/M501 FOR PIPING DIAGRAM. DEMOLISH ENOUGH EXISTING SUPPLY AND RETURN DUCTWORK REQUIRED TO ALLOW FOR NEW TRANSITIONS FROM EXISTING DUCTWORK TO NEW INLET AND OUTLET SIZES OF HEAT PUMPS.
- $\langle 4 \rangle$  TEMPORARILY REMOVE SPRINKLER HEADS AND PIPING WHERE NECESSARY TO DEMO EXISTING HEAT PUMP. REINSTALL SPRINKLER HEAD AND CONNECTING PIPING AFTER NEW HEAT PUMP IS INSTALLED.

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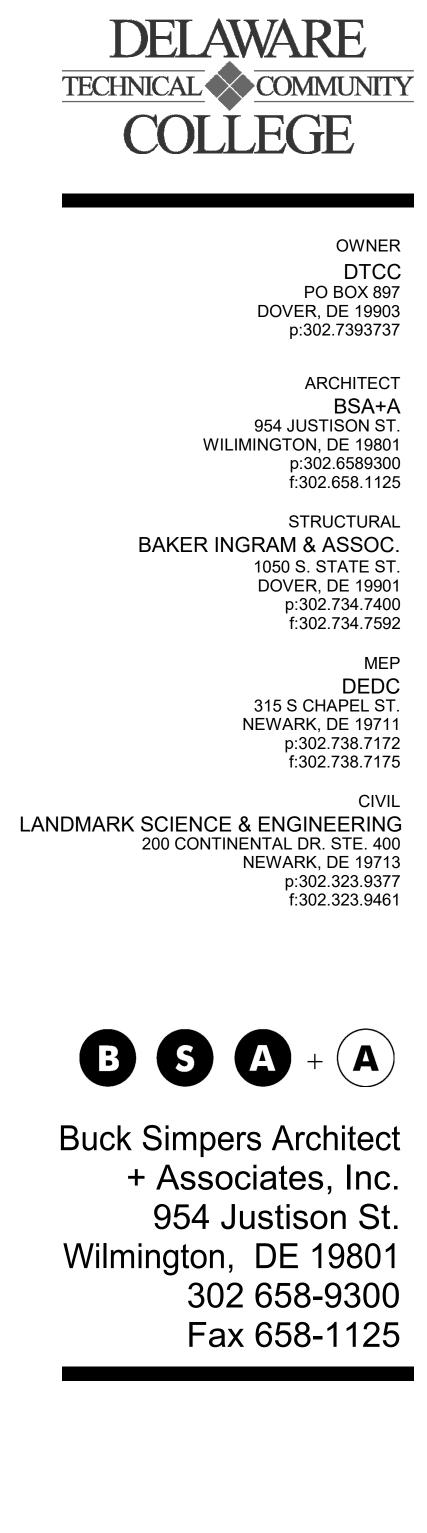


1 MECHANICAL - HVAC - FIRST FLOOR - REFLECTED CEILING PLAN - DEMOLITION 1/8" = 1'-0"

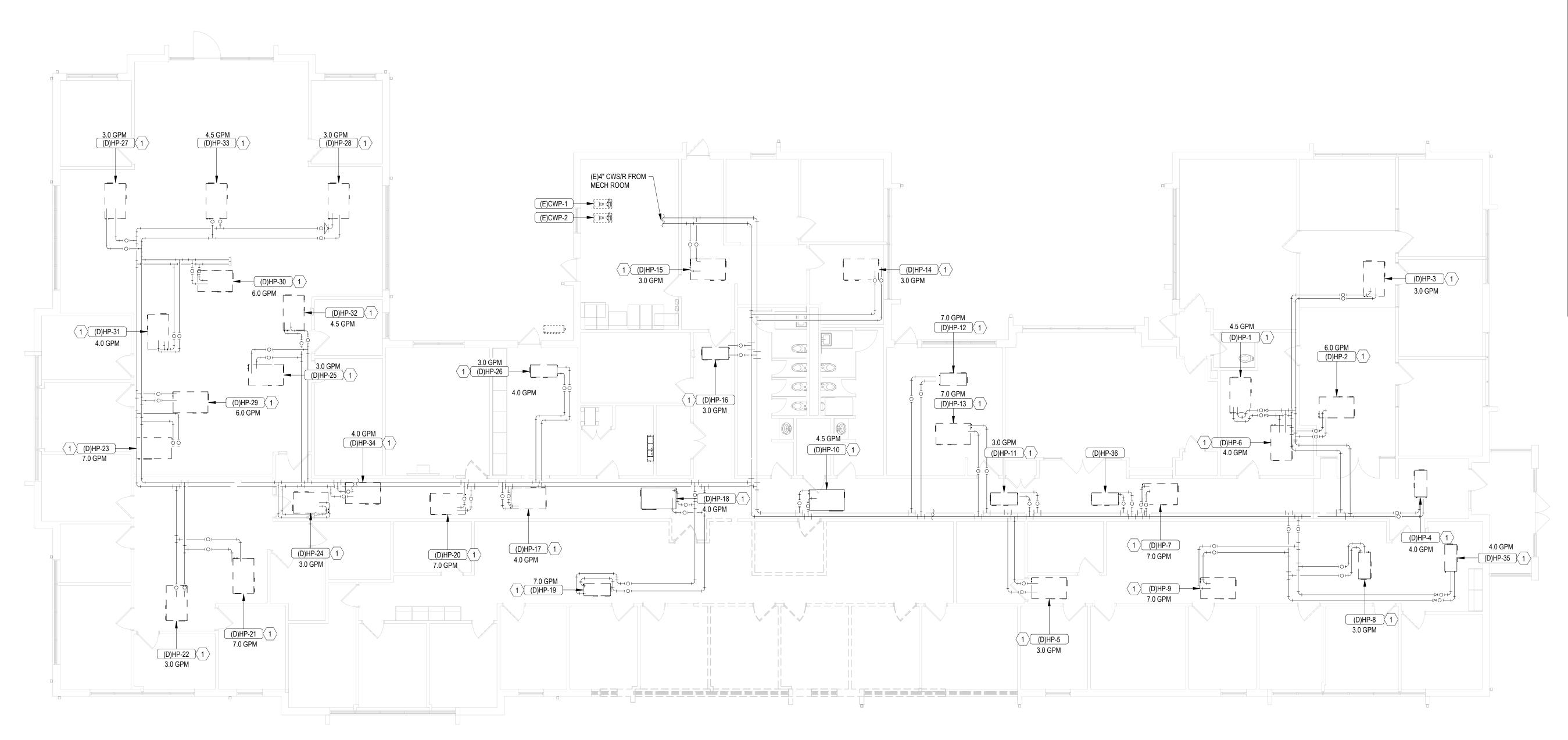
## **GENERAL NOTES:**

- 1. REFER TO DRAWING M-000 FOR NOTES, LEGENDS, AND ABBREVIATIONS. 2. ALL GRD'S, EXCLUDING LINEAR SLOT DIFFUSER AS
- NOTED ON THE DRAWINGS, IN THE BUILDING SHALL BE REPLACED. CONTRACTOR SHALL RECORD ALL SIZES OF GRD'S PRIOR TO DEMOLITION AND SUBMIT INFORMATION TO ENGINEER FOR REVIEW.
- 3. SEE ARCHITECTURAL DRAWINGS FOR CEILINGS THAT SHALL BE DEMOLISHED AND CEILINGS THAT ARE EXISTING TO REMAIN OR NOT INCLUDED IN SCOPE.

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1 MECHANICAL - HYDRONIC PIPING - FLOOR PLAN - DEMOLTION MD111 1/8" = 1'-0"

### **GENERAL NOTES:** 1. CEILING TILES SHALL BE MAINTAINED AND REPLACED AFTER THE DEMOLITION AND RE-INSTALLATION OF WSHPS. 2. SCHEDULE ALL SHUTDOWNS THAT EFFECT UTILITIES AND PORTIONS OF THE BUIDLING THAT MUST REMAIN IN OPERATION WITH THE OWNER. 3. DEMOLITION WORK AT ALL TIMES SHALL BE SUBJECT OT THE DIRECTION AND APPROVAL OF THE OWNER AND BE CARRIED OUT IN SUCH A MANNER SO AS TO NOT INTERFERE WITH THE NORMAL OPERATION OF THE BUILDING. 4. ISOLATE, DRAIN, AND REFILL EXISTING SYSTEMS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW SYSTEMS. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED. 5. ALL WORK SHALL BE PERFORMED N A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERVISED TO MINIMUZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING.ALL OTHER AREAS ARE TO REMAIN INOPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TAPS TO KEEP DUST AND DIRT WITHIN THE

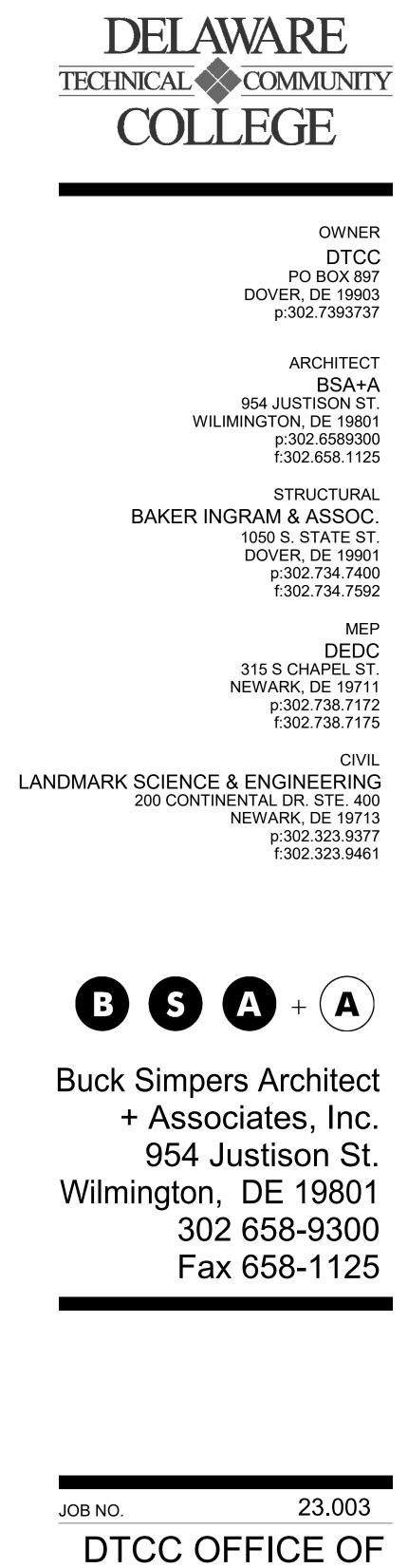
- CONSTRUCTION AREA. DURING DEMOLITION AND NEW WORK, CONTRACTOR SHALL PROVIDE PROTECTION OF EXISTING UTILITIES (I.E. HVAC, WIFI, ETC.) IN AREAS WHERE WORK IS WITHING 8'-0"OF EXISTING UTILITY. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL, REINSTALLATION, AND REPLACEMENT (IF DAMAGED) OF ALL CEILING TILES, LIGHTS, DIFFUSERS, OCCUPANCY SENSORS, FIRE ALARM DEVICES, AND SPRINKLER ESCUTCHEON PLATES, ETC. REQUIRED TO BE RELOCATED TO IMPLETEMENT THE REQUIRED DEMOLITION AND NEW
- WORK SCOPE. COORDINATE SCOPE WITH CONTRACTOR AND OTHER TRADES. FIELD LOCATED NEW THERMOSTAT LOCATIONS WITH OWNER PRIOR TO INSTALLATION. REMOVE EXISTING THERMOSTATS AND PATCH AND PAINT WALL AS REQUIRED.

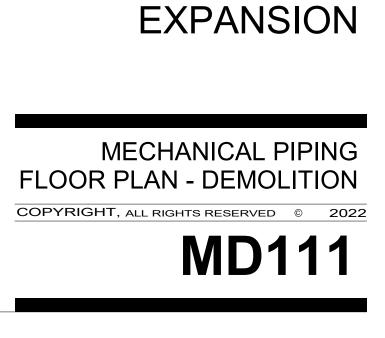
## DRAWING NOTES:

1 REFER TO DETAIL 16/M501 FOR PIPING DISCONNECTION SCOPE OF WORK.

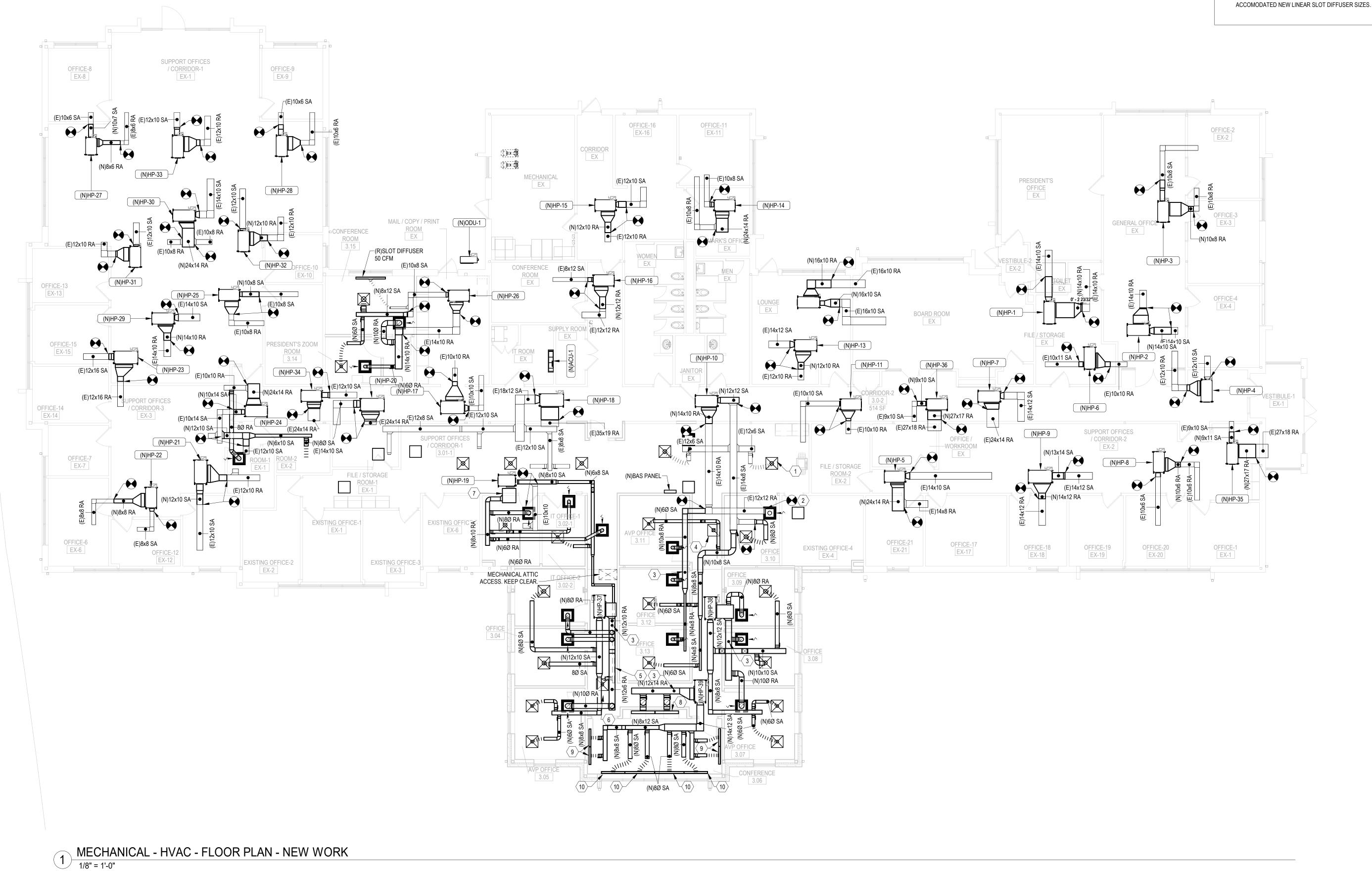
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## **GENERAL NOTES:**

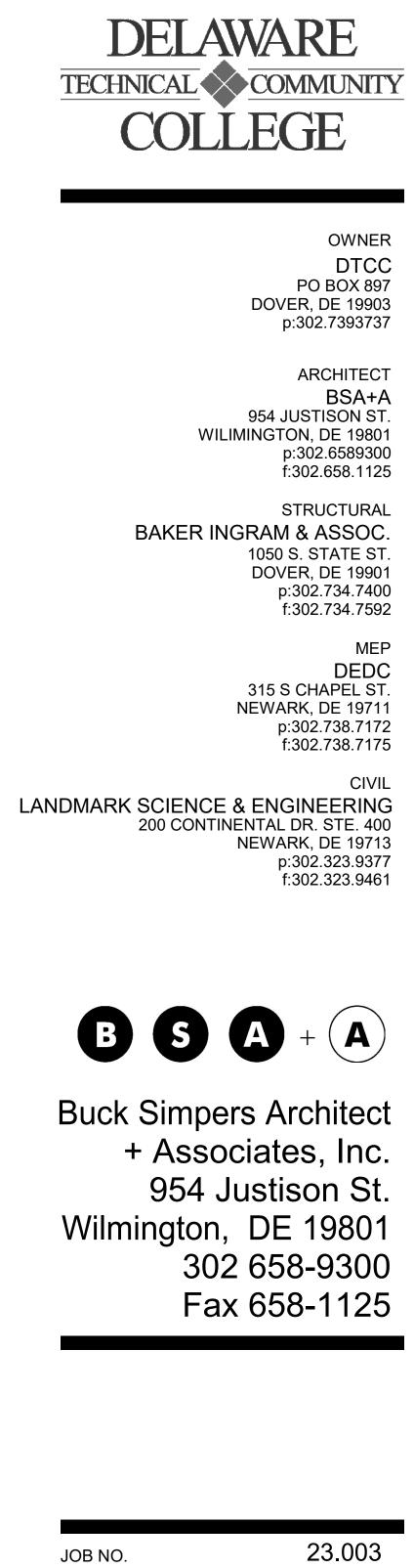
- 1. REFER TO DRAWING M-000 FOR NOTES, LEGENDS, AND ABBREVIATIONS.
- 2. MOUNT ALL THERMOSTATS 60" A.F.F.
- 3. CLEARANCES ON WATER SOURCE HEAT PUMPS SHALL BE MAINTAINED.
- 4. M.C. SHALL FIELD COORDINATE DUCTWORK CONNECTION TO SLOT DIFFUSERS WITH E.C. AND LIGHT FIXTURE CLEARANCES IN THE DINING ROOM.
- 5. COORDINATE HEAT PUMP INLET/OUTLET DUCT CONNECTIONS WITH WITH EXISTING DUCTWORK RECONNECTION.
- 6. CONTRACTOR SHALL FIELD MEASURE DUCTWORK PRIOR TO FABRICATION. OFFSETS AND TRANSITIONS WILL BE REQUIRED ON SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK OF EACH HEAT PUMP. NOT ALL OFFSETS ARE SHOWN ON DRAWINGS. FOR PRICING, PROVIDE 5 FEET OF SUPPLY, RETURN, AND OUTSIDE AIR DUCT. REFER TO DETAIL 17/M501.
- ALL GRD'S IN THE BUILDING SHALL BE REPLACED. CONTRACTOR SHALL TRANSITION FROM EXISTING DUCTWORK SIZE TO NEW GRD SIZE AS SHOWN ON PLANS. SEE DRAWING M103 FOR ALL GRD LOCATIONS. GRD'S NOT SHOWN ON THIS PLAN FOR CLARITY. CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING THE LENGTH AND WIDTH OF THE LINEAR SLOT DIFFUSERS THAT SHALL BE REPLACED. CONTRACTOR SHALL REWORK/EXTEND CEILING GRID AND REPLACE CEILING TILES AS REQUIRED TO

DRAWING NOTES:

- (1) REBALANCE EXISTING SUPPLY DIFFUSER TO 210 CFM.
- CONNECT (N)RD-8 TO EXISTING RETURN DUCT WITH BOTTOM TÀKE OFF.
- (3) (N) 4" OA DUCT CONNECTION UP TO ATTIC SPACE ABOVE. REFER TO DRAWING M-102 FOR CONTINUATION.
- 4 👌 (N) ED-6. 215 CFM EXHAUST AIR. 6"X6" EA DUCT CÓNNECTION SHALL TRANSITION TO 6"X8" DUCT UP TO ATTIC SPACE. REFER TO DRAWING M-102 FOR
- CONTINUATION.  $\langle$  5  $\rangle$  (N)4"X8" SA DUCT BELOW (N) RETURN DUCT.
- (6) (N)SD-6: 100 CFM
- RECONNECT EXISTING OA DUCT TO NEW RA DUCT. CONTRACTOR SHALL VERIFY EXACT RECONNECTION LOCATION IN FIELD.
- 8 > RLD-1: 121CFM/FT. 96" LENGTH. RETURN PLENUM HEIGHT SHALL BE A MINIMUM OF 24" TALL. DUCT CONNECTION SHALL BE CENTERED TO AVOID CONFLICT WITH CEILING HEIGHTS. RETURN DUCT CONNECTION: 12" ROUND DIAMETER.
- SLD-1: 110 CFM. 36" LENGTH. SUPPLY PLENUM HEIGHT SHALL BE A MINIMUM OF 16" TALL AND DUCT CONNECTION SHALL BE AS CLOSE TO THE TOP OF THE PLENUM TO AVOID CONFLICT WITH LIGHTS. SUPPLY DUCT CONNECTION: 6" ROUND DIAMETER.
- (10) SUPPLY PLENUM HEIGHT SHALL BE A MINIMUM OF 16" TALL AND DUCT CONNECTION SHALL BE AS CLOSE TO THE TOP OF THE PLENUM TO AVOID CONFLICT WITH LIGHTS. SUPPLY DUCT CONNECTION: 8" ROUND DIAMETER.

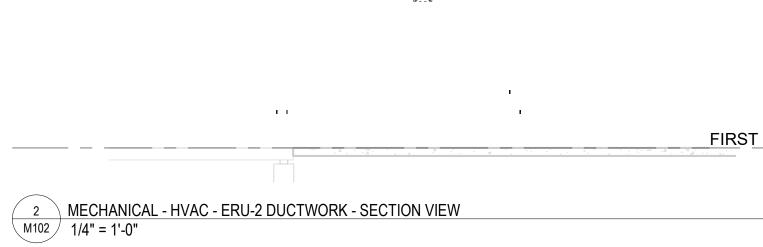
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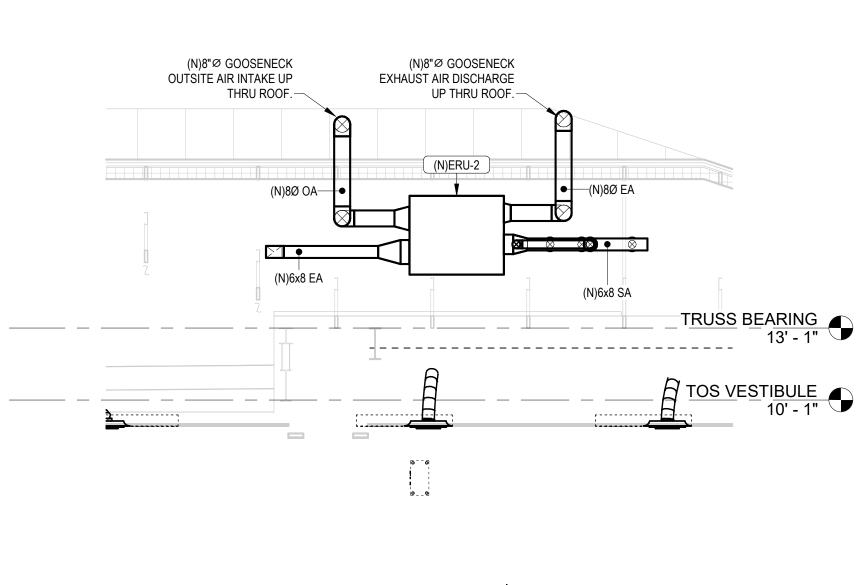
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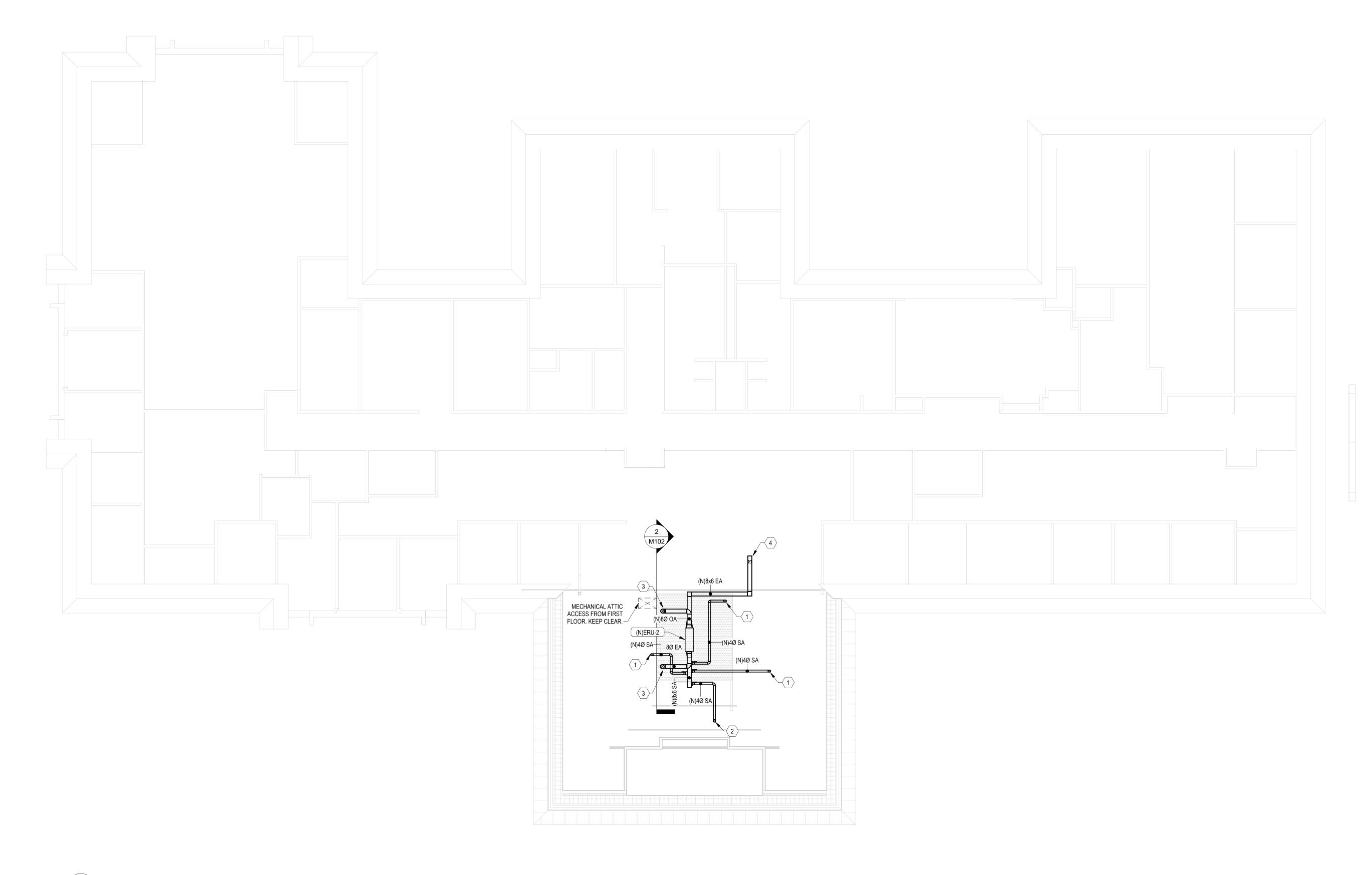
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DTCC OFFICE OF





1 MECHANICAL - HVAC - ATTIC PLAN - NEW WORK M102 1/8" = 1'-0"



13' - 1"

FIRST FLOOR 0' - 0"

## GENERAL NOTES:

- 1. REFER TO DRAWING M-000 FOR NOTES, LEGENDS, AND ABBREVIATIONS.
- 2. PROVIDE MOUNTING HARDWARE, HANGERS, AND SUPPORTS AS REQUIRED TO SUSPEND ENERGY RECOVER UNIT. UNIT SHALL NOT BE PLACED ON THE FLOOR.
- 3. COORDINATE INSTALLATION LOCATION WITH STRUCTURE TO MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCES.

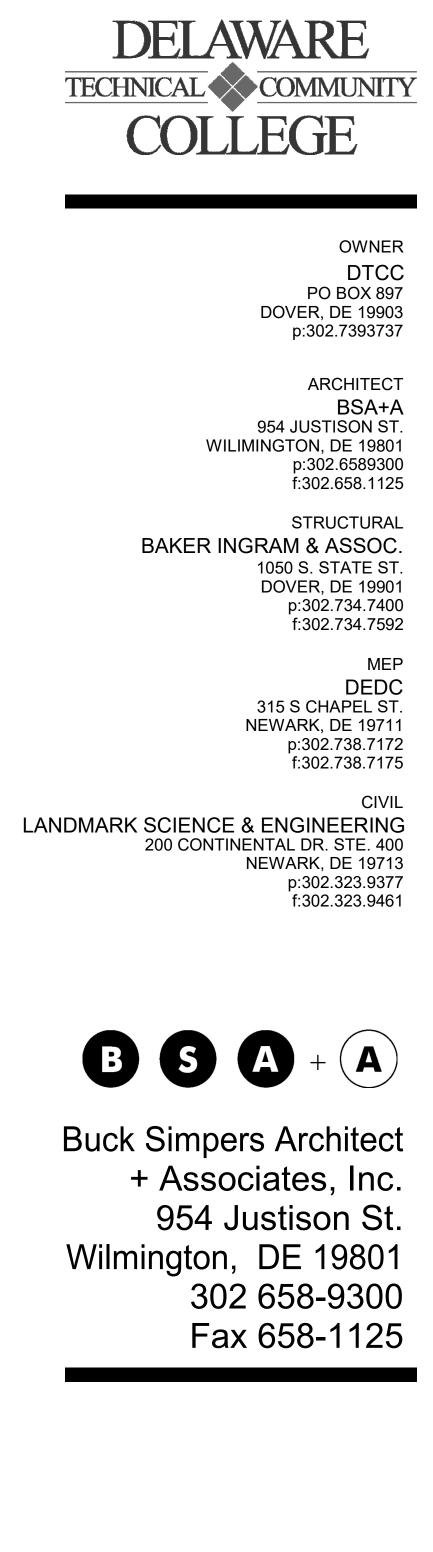
## DRAWING NOTES:

- 1 > (N) 4" DUCT DOWN TO RETURN DUCT IN FIRST FLOOR CEILING BELOW. SEE DRAWING M-101 FOR CONTINUATION. BALANCE DUCT TO 75 CFM.
- 2 (N) 4" DUCT DOWN TO RETURN DUCT IN FIRST FLOOR CEILING BELOW. SEE DRAWING M-101 FOR CONTINUATION. BALANCE DUCT TO 80 CFM. (3) (N) 8"Ø DUCT UP THRU ROOF. REFER TO 2/M-102 FOR
- SÉCTION VIEW.  $\langle$  4  $\rangle$  (N)6"X8" EA DUCT DOWN TO EXHAUST DIFFUSER IN FIRST FLOOR CEILING BELOW. SEE DRAWING M-101 FOR CONTINUATION. BALANCE DUCT TO 215 CFM.

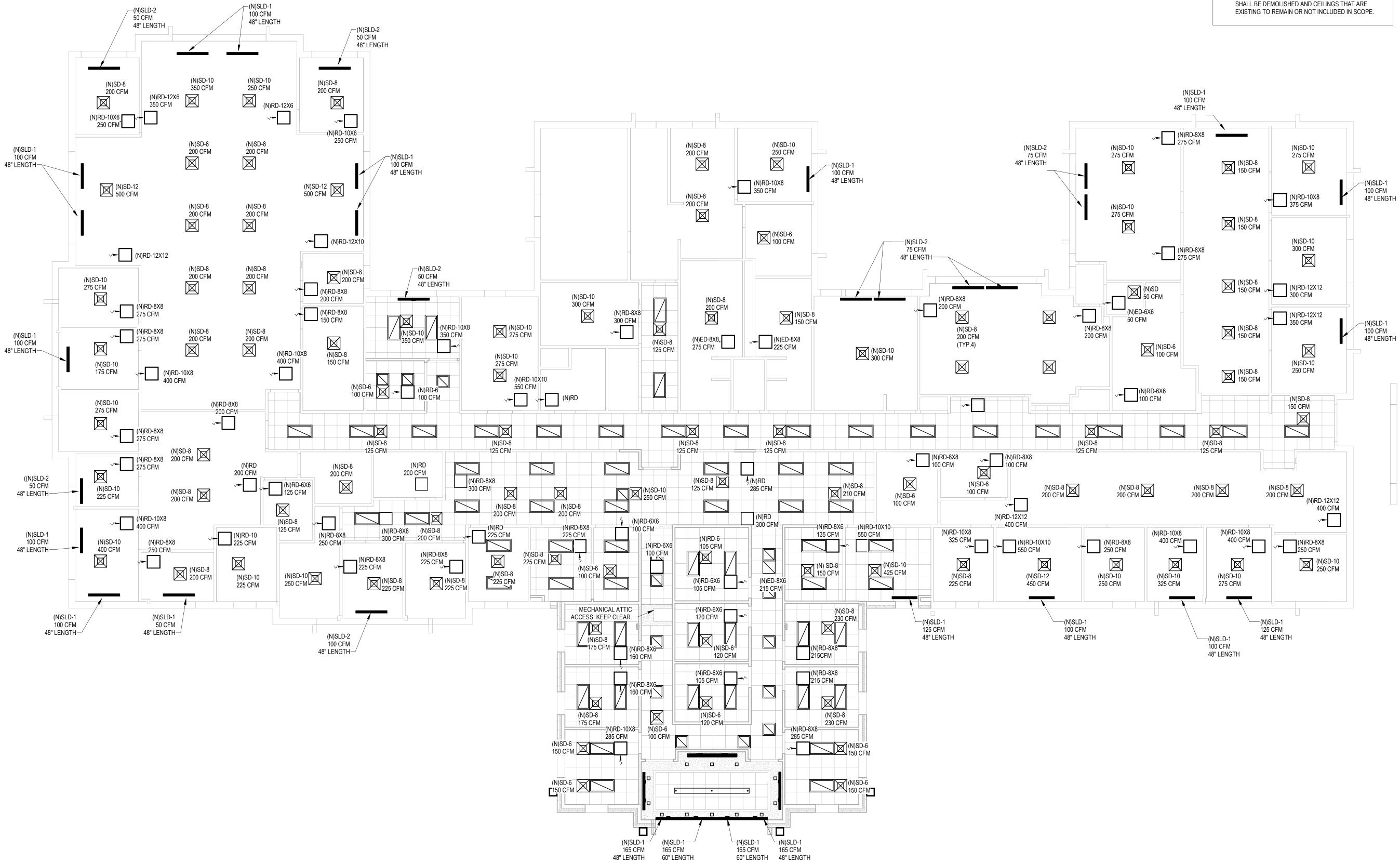
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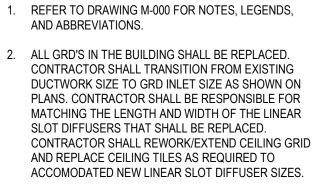


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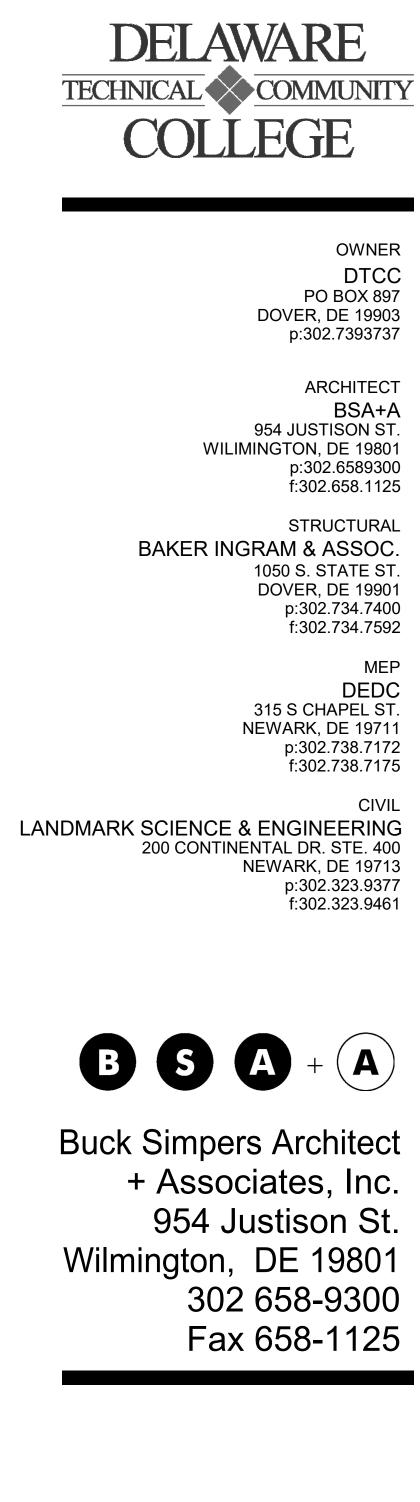
MECHANICAL - HVAC - FIRST FLOOR - REFLECTED CEILING PLAN - NEW WORK 1/8" = 1'-0"



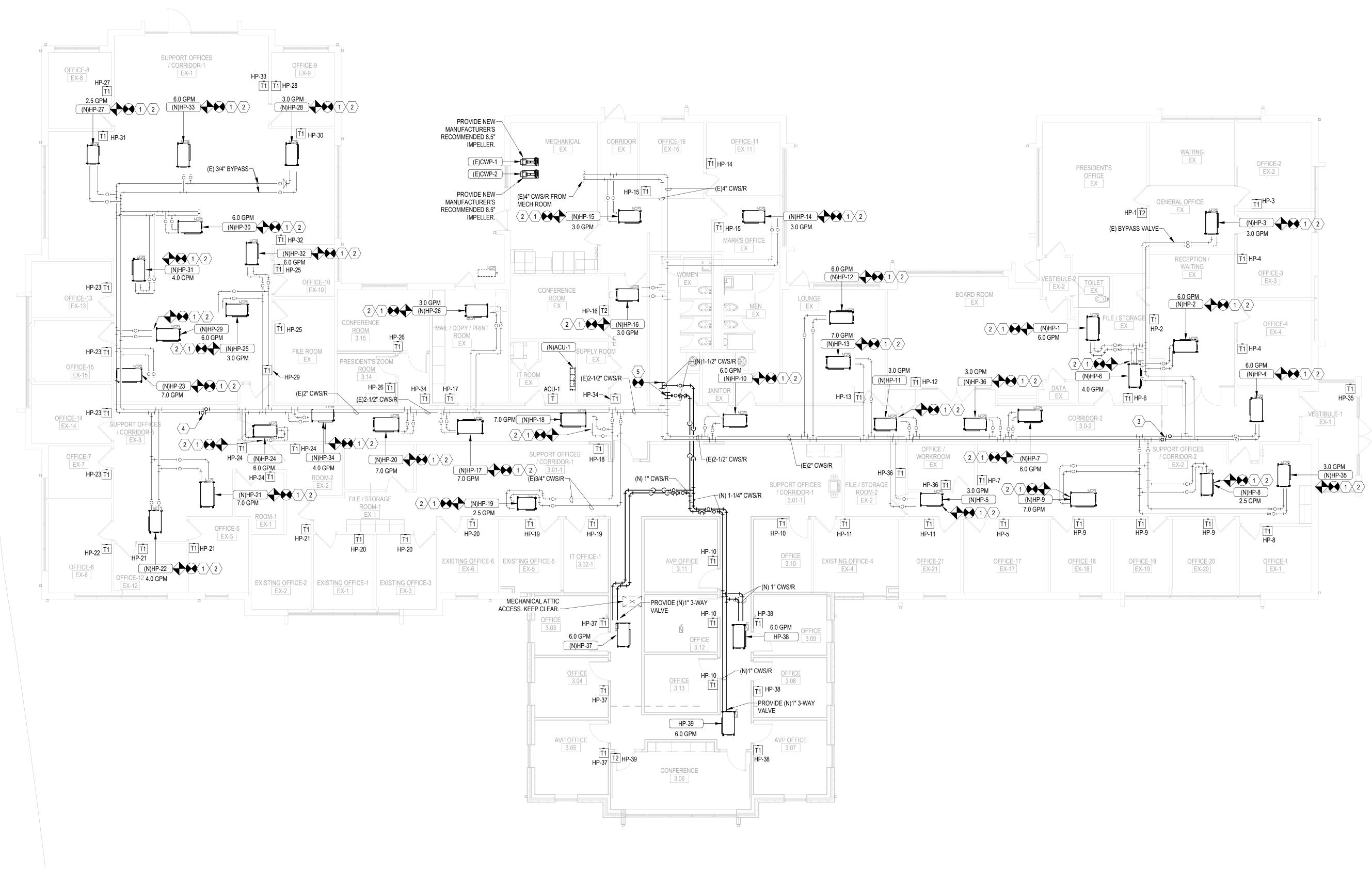


SEE ARCHITECTURAL DRAWINGS FOR CEILINGS THAT SHALL BE DEMOLISHED AND CEILINGS THAT ARE

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1 MECHANICAL - HYDRONIC PIPING - FLOOR PLAN - NEW WORK 1/8" = 1'-0"

## **GENERAL NOTES:**

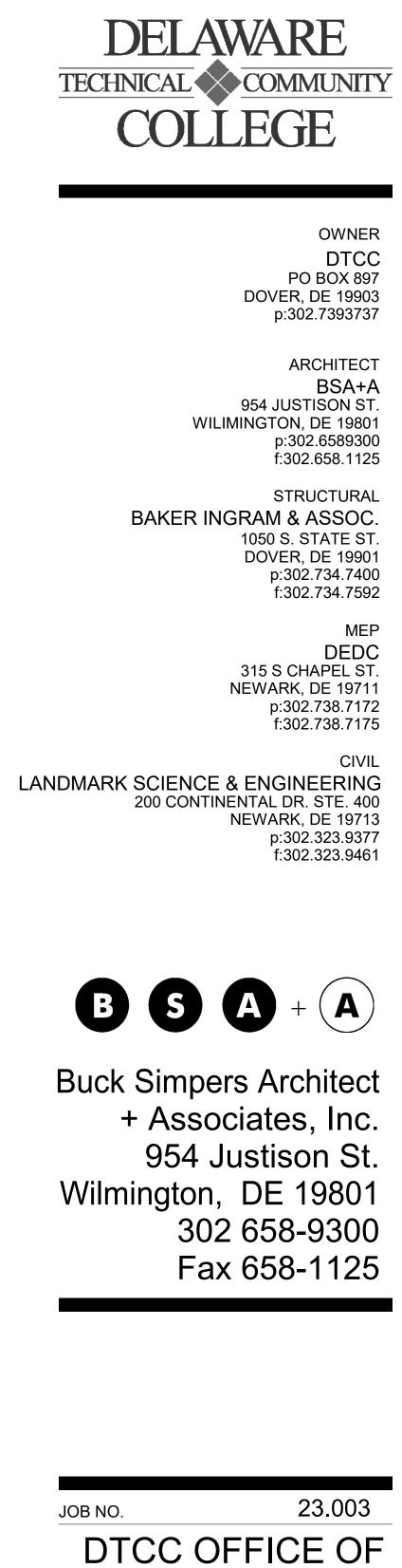
- . REFER TO DRAWING M000 FOR LEGENDS AND ABBREVIATIONS.
- . CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING AND REFILLING THE HYDRONIC SYSTEM DURING DEMOLITION AND NEW WORK PHASES. COORDINATE WITH OWNER ON GLYCOL LEVELS WHEN REFILLING THE SYSTEM.
- . REFER TO SHEE M001 FOR PIPING DIAGRAMS AND SCOPE OF PIPING MODIFICATIONS.
- . DRAWINGS INDICATE GENERAL CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ARRANGEMENT OF EXISTING PIING, FITTINGS, AND SPECIAL TIES BEFORE PERFORMING WORK. INSTALL PIPING ADJACENT TO MACHINE TO ALLOW SERVICE AND MAINTENANCE.
- . CONNECT SUPPLY AND RETURN HYDRONIC PIPING TO HEAT PUMP WITH MANUFACTURER PROVIDED HOSE KITS. HOSE KIT SHALL BE INSTALLED FOR USE WITH VARIABLE SPEED CENTRALIZED PUMPING SYSTEM. PROVIDE HOSE KIT WITH BRAIDED, STAINLESS STEEL HOSES ON BOTH THE SUPPLY AND RETURN SIDE OF THE SYSTEM. HOSE LENGTHS SHALL BE FIELD VERIFIED.
- 6. CONNECT HEAT PUMP CONDENSATE DRAIN PAN TO INDIRECT WASTE CONNECTION WITH CONDENSATE TRAP OF ADEQUATE DEPTH TO SEAL AGAINST FAN PRESSURE. INSTALL CLEANOUTS IN PIPING AT CHANGES OF DIRECTION.
- . NEW THERMOSTATS FOR HP-1 HP-36 SHALL BE INSTALLED IN THE EXACT LOCATION AS PREVIOUS. FIELD VERIFY EXACT LOCATION.
- 8. MOUNT NEW THERMOSTATS 60" A.F.F.

### DRAWING NOTES:

- (1) REFER TO DRAWING 16/M501 AND 17/M501 FOR DISCONNECTION AND RECONNECTION SCOPE OF WORK.
- $\langle 2 \rangle$  PROVIDE NEW ISOLATION VALVES ON THE EXISTING CWS/R LINES FOR ALL HEAT PUMPS. ISOLATION VALVES SHALL BE INSTALLED WHEN THE CWS/R LOOP IS SHUT DOWN AND DRAINED. COORDINATE SHUTDOWN TIME AND DURATION WITH OWNER.
- (N)2-1/2" MANUAL BALL VALVE FOR ISOLATION. THIS SHALL BE INSTALLED DURING SHUTDOWN AND WHEN SYSTEM IS DRAINED IN PHASE 0.
- 4 (N)2" MANUAL BALL VALVE FOR ISOLATION. THIS SHALL BÉ INSTALLED DURING SHUTDOWN AND WHEN SYSTEM IS DRAINED IN PHASE 0.
- $\langle$  5  $\rangle$  INSTALL (N)1-1/2" CWS/R PIPE TAPS AND CAP DURING INITIAL PHÁSE WHEN SYSTEM IS COMPLETELY DRAINED. INSTALL NEW PIPE AS SHOWN WHEN CONSTRUCTION ON EXPANSION AREA IS READY TO BEGIN.

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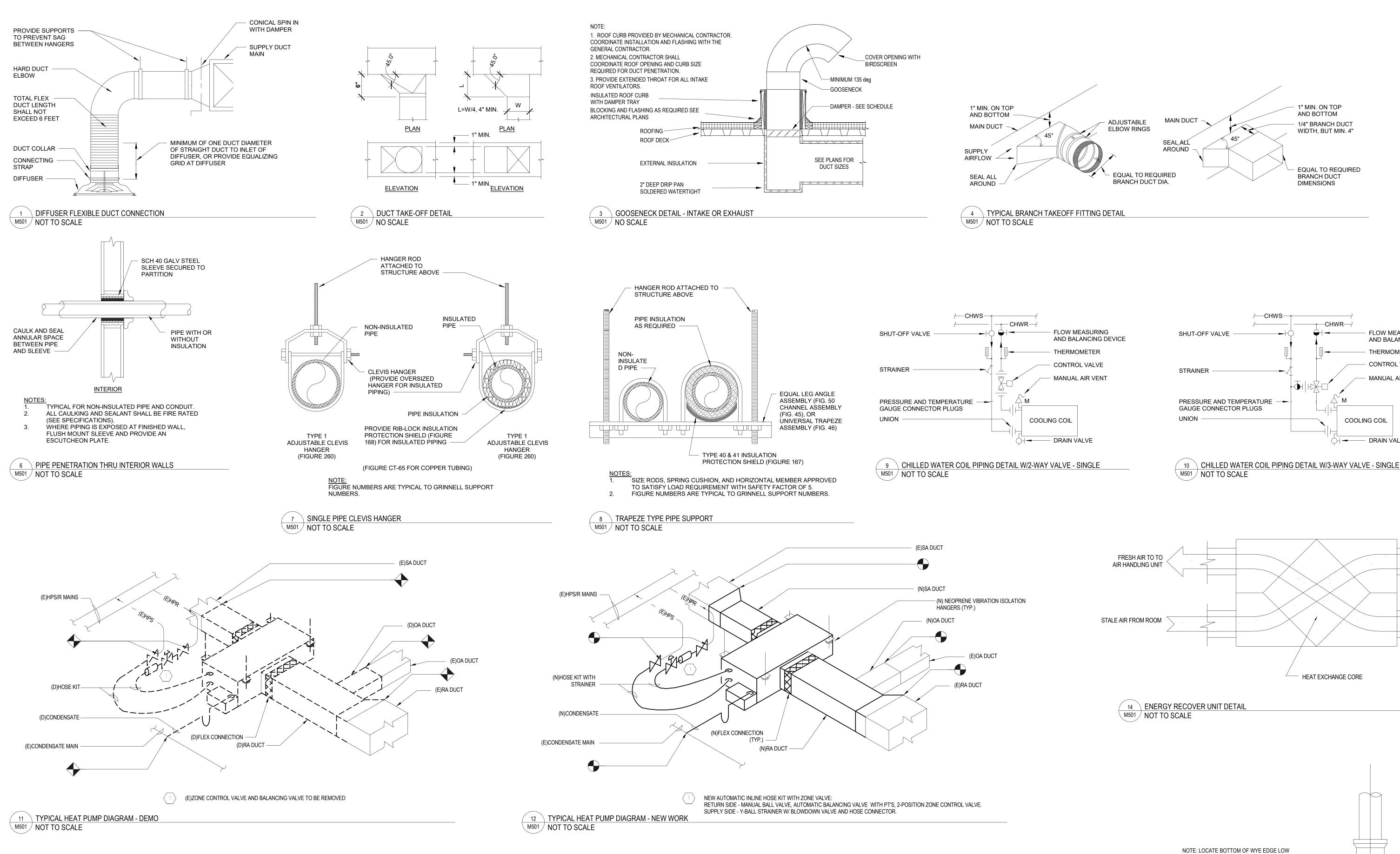
EXPANSION

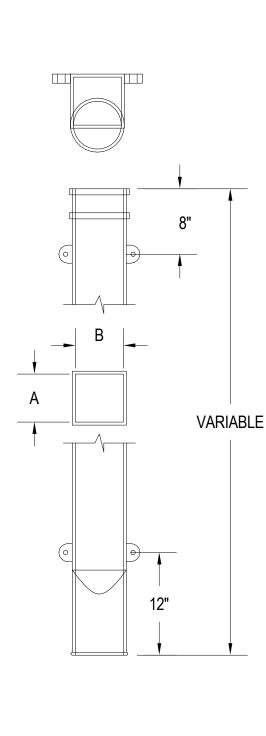
MECHANICAL PIPING

M111

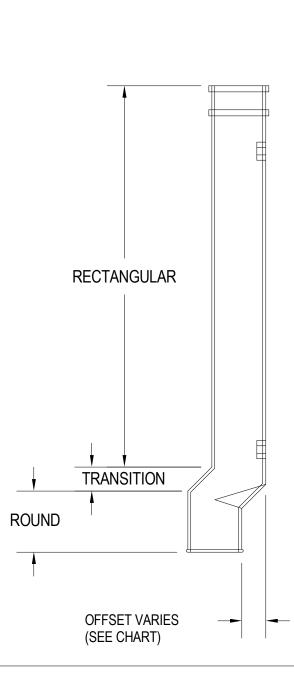
FLOOR PLAN - NEW WORK

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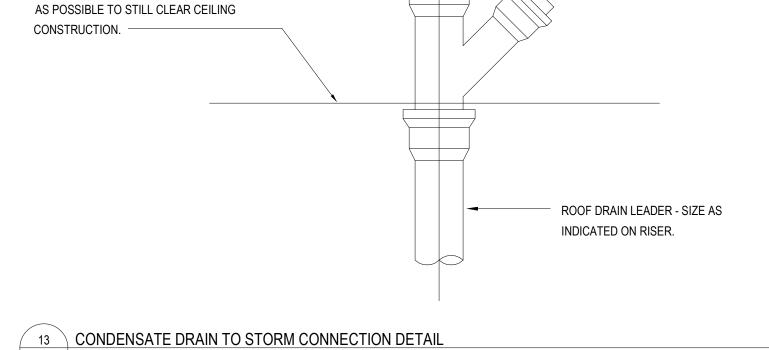


15 DOWNSPOUT BOOT DETAIL M501 NOT TO SCALE

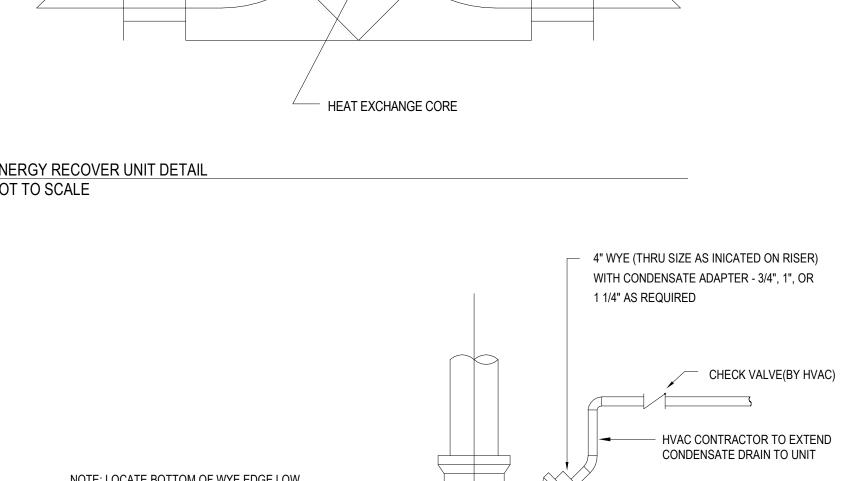


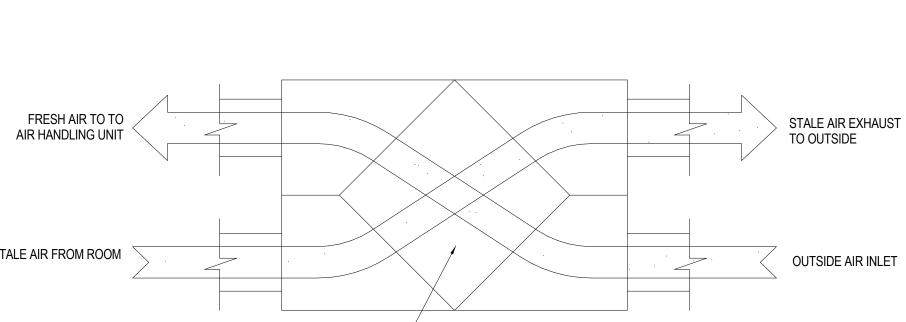
| Downspout Size<br>A x B | Outlet I.D.<br>C | Outlet O.D.<br>D | Offset<br>E |
|-------------------------|------------------|------------------|-------------|
| 3" x 3"                 | 3"               | 4"               | 2-1/2"      |
| 3" x 4 "                | 4"               | 4-7/8"           | 2-1/2"      |
| 3" x 5 "                | 5"               | 6"               | 2-3/8"      |
| 4" x 4"                 | 4"               | 4-7/8"           | 2-1/4"      |
| 4" x 5"                 | 4"               | 4-7/8"           | 2-1/2"      |
| 4" x 5"                 | 5"               | 6"               | 2-1/8"      |
| 4" x 6 "                | 4"               | 4-7/8"           | 1-1/2"      |
| 4" x 6 "                | 6"               | 6-7/8"           | 1-1/2"      |
| 5" x 5"                 | 6"               | 7"               | 2-1/2"      |
| 6" × 6"                 | 6"               | 7"               | 1-1/4"      |

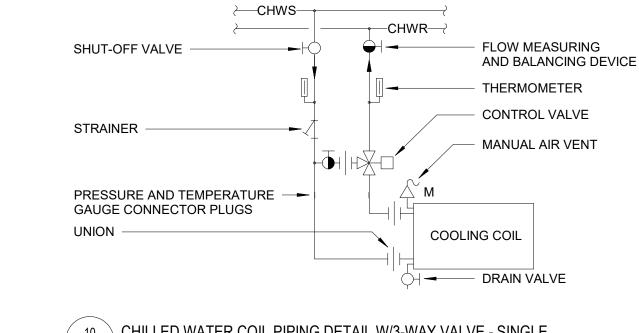


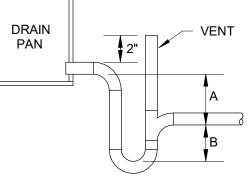


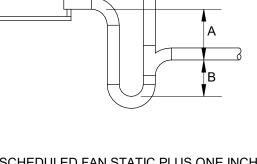
M501 NOT TO SCALE



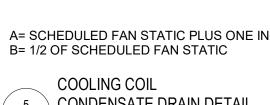




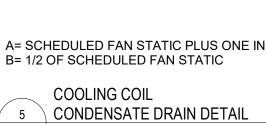






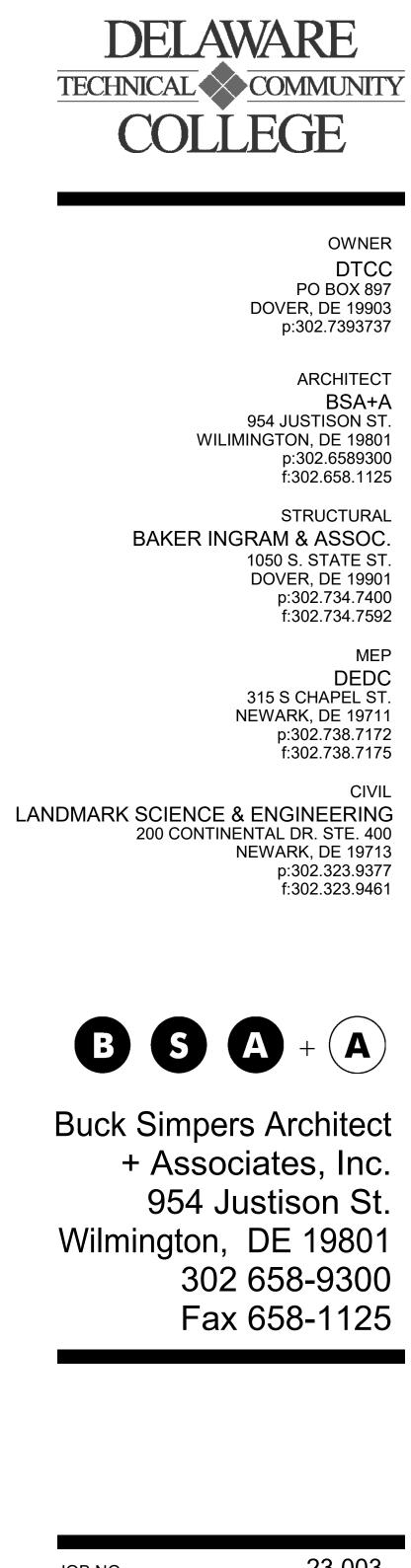


M501 NO SCALE



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MECHANICAL DETAILS

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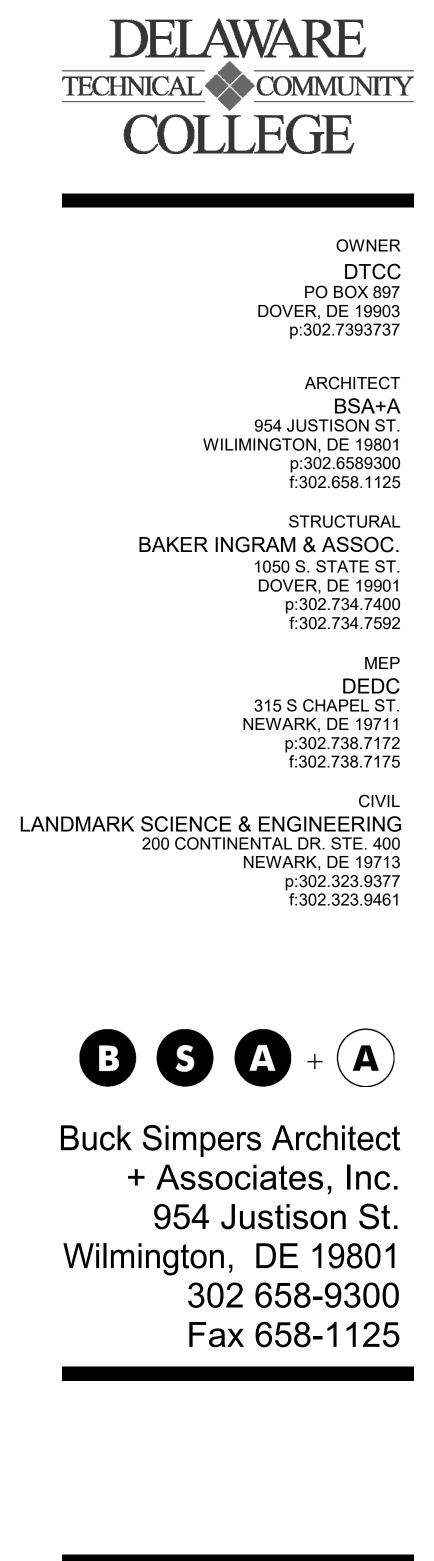


|                            |  |  |                                      |                  |                    |                    |                 |   |             |            | WATE      | R SOURC    | E HEAT I  | PUMP SC          | HEDU  | LE (BASE | BID)                       |                 |          |          |         |         |       |                    |          |              |    |                    |                         |                 |              |
|----------------------------|--|--|--------------------------------------|------------------|--------------------|--------------------|-----------------|---|-------------|------------|-----------|------------|-----------|------------------|-------|----------|----------------------------|-----------------|----------|----------|---------|---------|-------|--------------------|----------|--------------|----|--------------------|-------------------------|-----------------|--------------|
|                            |  |  |                                      | SUPPLY           | ' FAN              | EVAPORATOR CO      | CONDEN          | SER COIL  |             |            |           |            | COO       |                  |       | •        |                            |                 |          |          | HEATING | ì       |       |                    | ELE      | CTRICAL      |    | PIPE CC            | ONNECTION               |                 |              |
|                            |  |  | CUDDIX                               |                  | F 565              |                    | 511115          | 14/00   | CC          | DIL EAT    | COIL LA   | FLUID PR   | OPERTIES  |                  |       |          |                            | FLUI            | D PROPER | RTIES    | EAT     | LAT     | тота  |                    |          |              |    |                    |                         |                 | 1            |
| TAG                        | DESCRIPTION  | MANF.: WATER FURNACE<br>MODEL: VERSATEC 500  | SUPPLY<br>AIR (CFM                   |                  | E ESP<br>(IN. WG.) | HP REFRIGERANT TYP | E FLUID GP      | M (FT/HI  | )<br>DB (°F | ) WB (°F)  | DB (°F)   | EWT (°F)   | LWT (°F)  | NOM. T<br>TONS ( | BTU)  | (BTU)    | HEAT OF REJECTION<br>(BTU) | WPD             | EWT (°F) | LWT (°F) | DB (°F) | DB (°F) |       | HEAT OF<br>ABSORP. |          | MCA<br>AMPS) |    | WATER<br>SIZE (IN) | CONDENSATE<br>SIZE (IN) | WEIGHT<br>(LBS) | COMMENT      |
| HP-1                       | COMPACT HORIZONTAL WSHP  | 030  | 900                                  | EXISTING         | G 0.50             | D.5 R-454B         | 30% PG 6.       | 0 6.6   | 78.0        | 66.0       | 56.3      | 85.0       | 96.9      | 2.5 2            | 28250 | 21140    | 34500                      | 7               | 75.0     | 65.0     | 70.0    | 107.3   | 36230 | 29100              | 265/60/1 | 18.5         | 25 | 3/4"               | 3/4"                    | 320             | SEE ALL BELC |
| HP-2                       | COMPACT HORIZONTAL WSHP  | 030  | 900                                  | EXISTING         |                    | 0.5 R-454B         | 30% PG 6.       | ) 6.6   | 78.0        | 66.0       | 56.3      | 85.0       | 96.9      | _                | 28250 | 21140    | 34500                      | 7               | 75.0     | 65.0     | 70.0    | 107.3   | 36230 | 29100              |          | 18.5         | 25 | 3/4"               | 3/4"                    | 320             | SEE ALL BELC |
| HP-3                       | COMPACT HORIZONTAL WSHP  | 015  | 500                                  | EXISTING         |                    | 0.5 R-454B         | 30% PG 3.       | ) 4.7   | 78.0        | 66.0       | 57.2      | 85.0       | 97.0      | _                | 14250 | 11240    | 17500                      | 4.8             | 75.0     | 65.1     | 70.0    | 102.7   | 17630 | 14400              |          | 12.5         | 15 | 3/4"               | 3/4"                    | 200             | SEE ALL BELC |
| HP-4                       | COMPACT HORIZONTAL WSHP  | 024  | 700                                  | EXISTING         |                    | 0.5 R-454B         | 30% PG 6.       | 5 - 10  | 78.0        |            | 55.6      | 85.0       | 94.8      |                  | 23350 | 16970    | 28400                      | 5.3             | 75.0     | 67.2     | 70.0    | 107.5   | 28380 | 22700              | 265/60/1 | 13.9         | 20 | 3/4"               | 3/4"                    | 305             | SEE ALL BELC |
| HP-5                       | COMPACT HORIZONTAL WSHP  | 015  | 600                                  | EXISTING         |                    | 0.5 R-454B         | 30% PG 3.       | ) 4.7   | 78.0        |            | 59.0      | 85.0       | 97.4      | _                | 14500 | 12330    | 18000                      | 4.8             | 75.0     | 64.9     | 70.0    | 97.6    | 17910 | 14700              | 265/60/1 | 12.5         | 15 | 3/4"               | 3/4"                    | 200             | SEE ALL BELC |
| HP-6                       | COMPACT HORIZONTAL WSHP  | 018  | 600                                  | EXISTING         |                    | 0.5 R-454B         | 30% PG 4.       | $\frac{5}{2}$ 8.1   | 78.0        |            | 57.9      | 85.0       | 95.7      |                  | 16640 | 13010    | 20800                      | 8.4             | 75.0     | 66.4     | 70.0    | 102.2   | 20830 | 16700              | 265/60/1 | 13.2         | 20 | 3/4"               | 3/4"                    | 210             | SEE ALL BELC |
| HP-7                       | COMPACT HORIZONTAL WSHP  | 030  | 1100                                 | EXISTING         |                    | 0.5 R-454B         | 30% PG 6.       | 5.2   | 78.0        | 66.0       | 57.2      | 85.0       | 97.3      |                  | 27960 | 18200    | 33600                      | 5.4             | 75.0     | 63.6     | 70.0    | 105.0   | 41520 | 21300              | 265/60/1 | 18.5         | 25 | 3/4"               | 3/4"                    | 320             | SEE ALL BELC |
| HP-8                       | COMPACT HORIZONTAL WSHP  | 012  | 370                                  | EXISTING         |                    | 0.1 R-454B         | 30% PG 2.       | 5 2.9   | 78.0        | 66.0       | 57.3      | 85.0       | 96.6      |                  | 11320 | 8270     | 14000                      | 2.9             | 75.0     | 66.4     | 70.0    | 103.5   | 13370 | 10400              | 265/60/1 | 7.4          | 15 | 1/2"               | 3/4"                    | 175             | SEE ALL BELC |
| HP-9                       | COMPACT HORIZONTAL WSHP  | 036  | 1100                                 | EXISTING         |                    | 0.5 R-454B         | 30% PG 7.       | $5 = \frac{1}{5}$   | 78.0        |            | 57.4      | 85.0       | 96.7      | _                | 32670 | 24430    | 39600                      | 5.4             | 75.0     | 65.8     | 70.0    | 102.2   | 38290 | 31200              | 265/60/1 | 19.4         | 30 | 1                  | 3/4"                    | 368             | SEE ALL BELO |
| HP-10                      | COMPACT HORIZONTAL WSHP  | 030  | 900                                  | 45               | 0.50               | 0.5 R-454B         | 30% PG 6.       | ) 66  | 75.0        |            | 56.3      | 85.0       | 96.9      | -                | 28250 | 21140    | 34500                      | 7               | 75.0     | 65.0     | 70.0    | 107.3   | 36230 | 29100              | 265/60/1 | 18.5         | 25 | 3/4"               | 3/4"                    | 320             | SEE ALL BELO |
| HP-11                      | COMPACT HORIZONTAL WSHP  | 015  | 600                                  | EXISTING         |                    | 0.5 R-454B         | 30% PG 3.       | ) 4.7   | 78.0        |            | 59.0      | 85.0       | 97.4      | -                | 14500 | 12330    | 18000                      | 4.8             | 75.0     | 64.9     | 70.0    | 97.6    | 17910 | 14700              |          | 12.5         | 15 | 3/4"               | 3/4"                    | 200             | SEE ALL BELO |
| HP-12                      | COMPACT HORIZONTAL WSHP  | 030  | 1100                                 | EXISTING         |                    | 0.5 R-454B         | 30% PG 6.       | $5 + \frac{1}{10}$  | 78.0        | 66.0       | 57.2      | 85.0       | 97.3      | -                | 27960 | 18200    | 33600                      | 5.4             | 75.0     | 63.6     | 70.0    | 105.0   | 41520 | 21300              | 265/60/1 | 18.5         | 25 | 3/4"               | 3/4"                    | 320             | SEE ALL BELO |
| HP-13                      | COMPACT HORIZONTAL WSHP  | 036  | 1100                                 | EXISTING         |                    | 0.5 R-454B         | 30% PG 7.       | ) 5.1   | 78.0        | 66.0       | 57.2      | 85.0       | 96.7      | _                | 32670 | 24430    | 39600                      | 5.4             | 75.0     | 65.8     | 70.0    | 102.2   | 38290 | 31200              | · · ·    | 19.4         | 30 | 1                  | 3/4"                    | 368             | SEE ALL BELO |
| HP-14                      | COMPACT HORIZONTAL WSHP  | 015  | 500                                  | EXISTING         |                    | 0.5 R-454B         | 30% PG 3.       | 3 3.1   | 78.0        |            | 57.2      | 85.0       | 97.0      | _                | 14250 | 11240    | 17500                      | 4.8             | 75.0     | 65.1     | 70.0    | 102.2   | 17630 | 14400              | 265/60/1 | 12.5         | 15 | 3/4"               | 3/4"                    | 200             | SEE ALL BELO |
| HP-15                      | COMPACT HORIZONTAL WSHP  | 015  | 500                                  | EXISTING         |                    | 0.5 R-454B         | 30% PG 3.       | ) 4.7   | 78.0        |            | 57.2      | 85.0       | 97.0      |                  | 14250 | 11240    | 17500                      | 4.8             | 75.0     | 65.1     | 70.0    | 102.7   | 17630 | 14400              | · · · /  | 12.5         | 15 | 3/4"               | 3/4"                    | 200             | SEE ALL BELO |
| HP-16                      | COMPACT HORIZONTAL WSHI  | 015  | 500                                  | EXISTING         |                    | 0.5 R-454B         | 30% PG 3.       | 3 - 4.7   | 78.0        |            | 57.2      | 85.0       | 97.0      |                  | 14250 | 11240    | 17500                      | 4.8             | 75.0     | 65.1     | 70.0    | 102.7   | 17630 | 14400              | · · ·    | 12.5         | 15 | 3/4                | 3/4"                    | 200             | SEE ALL BELO |
| HP-17                      | COMPACT HORIZONTAL WSHI  | 036  | 1100                                 | EXISTING         |                    | 0.5 R-454B         | 30% PG 7.       | $5 + \frac{1}{2}$   | 78.0        |            | 57.4      | 85.0       | 96.7      | _                | 32670 | 24430    | 39600                      | 5.4             | 75.0     | 65.8     | 70.0    | 102.7   | 38290 | 31200              |          | 19.4         | 30 | 1                  | 3/4"                    | 368             | SEE ALL BELO |
| HP-18                      | COMPACT HORIZONTAL WSHP  | 036  | 1100                                 | EXISTING         |                    | 0.5 R-454B         | 30% PG 7.       | ) 5.1   | 78.0        |            | 57.4      | 85.0       | 96.7      | _                | 32670 | 24430    | 39600                      | 5.4             | 75.0     | 65.8     | 70.0    | 102.2   | 38290 | 31200              |          | 19.4         | 30 |                    | 3/4"                    | 368             | SEE ALL BELO |
| HP-19                      | COMPACT HORIZONTAL WSHP  | 012  | 370                                  | EXISTING         |                    |                    | 30% PG 2.       | 5 <u>5</u> | 75.0        |            | 57.3      | 85.0       | 96.6      | -                | 11320 | 8270     | 14000                      | 2.9             | 75.0     | 66.4     | 70.0    | 102.2   | 13370 | 10400              | 265/60/1 | 7.4          | 15 | 1/2"               | 3/4"                    | 175             | SEE ALL BELO |
| HP-20                      | COMPACT HORIZONTAL WSHI  | 036  | 1100                                 | EXISTING         |                    |                    | 30% PG 7.       | <u>כן בין בין בין בין בין בין בין בין בין בי</u>  | 73.0        | 66.0       | 57.4      | 85.0       | 96.7      |                  | 32670 | 24430    | 39600                      | 5.4             | 75.0     | 65.8     | 70.0    | 103.3   | 38290 | 31200              | 265/60/1 | 19.4         | 30 | 1                  | 3/4"                    | 368             | SEE ALL BELO |
| HP-21                      | COMPACT HORIZONTAL WSHI  | 036  | 1100                                 | EXISTING         |                    | 0.5 R-454B         | 30% PG 7.       | 5 5.1<br>5 5.1  | 78.0        | 66.0       | 57.4      | 85.0       | 96.7      | -                | 32670 | 24430    | 39600                      | 5.4             | 75.0     | 65.8     | 70.0    | 102.2   | 38290 | 31200              |          | 19.4         | 30 | 1                  | 3/4"                    | 368             | SEE ALL BELO |
| HP-22                      | COMPACT HORIZONTAL WSHI  | 018  | 600                                  | EXISTING         |                    | 0.5 R-454B         | 30% PG 4.       |   | 78.0        |            | 57.9      | 85.0       | 95.7      | _                | 16640 | 13010    | 20800                      | 8.4             | 75.0     | 66.4     | 70.0    | 102.2   | 20830 | 16700              |          | 13.2         | 20 | 3///"              | 3/4"                    | 210             | SEE ALL BELO |
| HP-23                      | COMPACT HORIZONTAL WSHI  | 036  | 1100                                 | EXISTING         |                    | D.5 R-454B         | 30% PG 7.       | ) <u>5.1</u>  | 78.0        |            | 57.4      | 85.0       | 96.7      |                  | 32670 | 24430    | 39600                      | 5.4             | 75.0     | 65.8     | 70.0    | 102.2   | 38290 | 31200              |          | 19.4         | 30 | 1                  | 3/4"                    | 368             | SEE ALL BELO |
| HP-24                      | COMPACT HORIZONTAL WSHI  | 030  | 700                                  | EXISTING         |                    |                    | 30% PG 6.       |   |             |            |           |            | 96.2      | -                | 27960 | 18200    | 33600                      | 5.4             | 75.0     | 64.7     | 70.0    | 130.5   | 39170 | 30900              |          | 18.5         | 25 | 3/4"               | 3/4"                    | 320             | SEE ALL BELO |
| HP-25                      | COMPACT HORIZONTAL WSHI  | 015  | 500                                  | EXISTING         |                    |                    | 30% PG 3.       |   | 78.0        |            | 57.2      | 85.0       | 97.0      | _                | 14250 | 11240    | 17500                      | 4.8             | 75.0     | 65.1     | 70.0    | 102.7   | 17630 | 14400              |          | 12.5         | 15 | 3/4"               | 3/4"                    | 200             | SEE ALL BELO |
| HP-26                      | COMPACT HORIZONTAL WSHP  | 015  | 500                                  | EXISTING         |                    |                    | 30% PG 3.       |   | 78.0        |            | 57.2      | 85.0       | 97.0      |                  | 14250 | 11240    | 17500                      | 4.8             | 75.0     | 65.1     | 70.0    | 102.7   | 17630 | 14400              |          | 12.5         | 15 | 3/4"               | 3/4"                    | 200             | SEE ALL BELO |
| HP-27                      | COMPACT HORIZONTAL WSHI  | 012  | 370                                  | EXISTING         |                    |                    | 30% PG 2.       |   |             |            | 57.3      | 85.0       | 96.6      |                  | 11320 | 8270     | 14000                      | 2.9             | 75.0     | 66.4     | 70.0    | 102.7   | 13370 | 10400              | 265/60/1 | 7.4          | 15 | 1/2"               | 3/4"                    | 175             | SEE ALL BELO |
| HP-28                      | COMPACT HORIZONTAL WSHI  | 012  | 500                                  | EXISTING         |                    |                    | 30% PG 3.       |   | 78.0        |            | 57.2      | 85.0       | 97.0      |                  | 14250 | 11240    | 17500                      | 4.8             | 75.0     | 65.1     | 70.0    | 103.3   | 17630 | 14400              |          | 12.5         | 15 | 3/4"               | 3/4"                    | 200             | SEE ALL BELO |
| HP-29                      | COMPACT HORIZONTAL WSHI  | 030  | 900                                  | EXISTING         |                    |                    | 30% PG 6.       |   |             |            | 56.3      | 85.0       | 96.9      |                  | 28250 | 21140    | 34500                      | 7               | 75.0     | 65.0     | 70.0    | 102.7   | 36230 | 29100              |          | 18.5         | 25 | 3/4"               | 3/4"                    | 320             | SEE ALL BELO |
| HP-30                      | COMPACT HORIZONTAL WSHI  | 030  | 900                                  | EXISTING         |                    |                    | 30% PG 6.       |   |             |            | 56.3      | 85.0       | 96.9      |                  | 28250 | 21140    | 34500                      | 7               | 75.0     | 65.0     | 70.0    | 107.3   | 36230 | 29100              |          | 18.5         | 25 | 3/4"               | 3/4"                    | 320             | SEE ALL BELO |
| HP-31                      | COMPACT HORIZONTAL WSHI  | 018  | 600                                  | EXISTING         |                    |                    | 30% PG 4.       |   | 78.0        |            | 57.9      | 85.0       | 95.7      | -                | 16640 | 13010    | 20800                      | 8.4             | 75.0     | 66.4     | 70.0    | 107.3   | 20830 | 16700              |          | 13.2         | 20 | 3/4"               | 3/4"                    | 210             | SEE ALL BELO |
| HP-32                      | COMPACT HORIZONTAL WSHI  | 024  | 700                                  | EXISTING         |                    |                    | 30% PG 6.       |   | 78.0        |            | 55.6      | 85.0       | 94.8      |                  | 23350 | 16970    | 28400                      | 5.3             | 75.0     | 67.2     | 70.0    | 102.2   | 28380 | 22700              |          | 13.9         | 20 | 3/4"               | 3/4"                    | 305             | SEE ALL BELO |
| HP-33                      | COMPACT HORIZONTAL WSHI  | 024  | 700                                  | EXISTING         |                    |                    | 30% PG 6.       |   |             |            | 55.6      | 85.0       | 94.8      |                  | 23350 | 16970    | 28400                      | 5.3             | 75.0     | 67.2     | 70.0    | 107.5   | 28380 | 22700              |          | 13.9         | 20 | 3/4"               | 3/4"                    | 305             | SEE ALL BELO |
| HP-34                      | COMPACT HORIZONTAL WSHP  | 018  | 600                                  | EXISTING         |                    |                    | 30% PG 4.       |   | 78.0        |            | 57.9      | 85.0       | 95.7      |                  | 16640 | 13010    | 20800                      | 8.4             | 75.0     | 66.4     | 70.0    | 107.5   | 20830 | 16700              |          | 13.2         | 20 | 3/4"               | 3/4"                    | 210             | SEE ALL BELO |
| HP-35                      | COMPACT HORIZONTAL WSHP  | 015  | 500                                  | EXISTING         |                    |                    | 30% PG 4.       |   | 78.0        |            | 57.2      | 85.0       | 97.0      | 2.0              | 14250 | 11240    | 17500                      | 4.8             | 75.0     | 65.1     | 70.0    | 102.2   | 17630 | 14400              |          | 12.5         | 15 | 3/4"               | 3/4"                    | 200             | SEE ALL BELO |
| HP-36                      | COMPACT HORIZONTAL WSHP  | 015  | 500                                  | EXISTING         |                    |                    | 30% PG 3.       |   | 78.0        |            | 57.2      | 85.0       | 97.0      |                  | 14250 | 11240    | 17500                      | 4.8             | 75.0     | 65.1     | 70.0    | 102.7   | 17630 | 14400              | - · · -  | 12.5         | 15 | 3/4"               | 3/4"                    | 200             | SEE ALL BELO |
| HP-37                      | COMPACT HORIZONTAL WSHP  | 013  | 700                                  | 75               |                    | D.5 R-454B         | 30% PG 5.       |   |             |            | 55.6      | 85.0       | 97.0      |                  | 23350 | 16970    | 28400                      | 5.3             | 75.0     | 67.2     | 70.0    | 102.7   | 28380 | 22700              |          | 13.9         | 20 | 3/4"               | 3/4"                    | 305             | SEE ALL BELO |
| HP-38                      | COMPACT HORIZONTAL WSHP  | 024  | 700                                  | 75               | 0.50               |                    | 30% PG 6.       |   |             |            | 55.6      | 85.0       | 94.8      |                  | 23350 | 16970    | 28400                      | 5.3             | 75.0     | 67.2     | 70.0    | 107.5   | 28380 | 22700              |          | 13.9         | 20 | 3/4"               | 3/4"                    | 305             | SEE ALL BELO |
| HP-39                      | COMPACT HORIZONTAL WSHP  | 030  | 1,100                                |                  |                    |                    | 30% PG 6.       |   |             |            | 57.2      | 85.0       | 94.8      |                  | 27960 | 18200    | 33600                      | 5.4             |          | -        | 70.0    | 107.3   |       | 21300              |          |              |    | 3/4"               | 3/4"                    |                 |              |
| NOTES:                     | COMPACT HORIZONTAL WSHP  | 030  | 1,100                                | 80               | 0.50               | J.J K-434D         | 50% PG 0.       | 5.2   | 75.0        | 63.0       | 57.2      | 85.0       | 97.5      | 2.5 2            | 27900 | 10200    | 55000                      | J. <del>4</del> | 75.0     | 63.6     | 70.0    | 105.0   | 41320 | 21300              | 265/60/1 | 18.5         | 25 | 5/4                | 5/4                     | 320             | SEE ALL BELO |
| 1.<br>2.<br>3.<br>4.<br>5. | PROVIDE WITH MANUFACTUERERS<br>PROVIDE WITH WALL-MOUNT TEMP<br>PROVIDE WITH HOT GAS REHEAT FO<br>PROVIDE UNIT WITH AUTOMATIC IN<br>PROVIDE WITH 4" MERV 13 FILTERS<br>PROVIDE WITH FACTORY INSTALLED | HUMIDITY ZONE CONTROL TH<br>OR DEHUMIDIFICATION. THE N<br>LINE HOSE KIT WITH ZONE VA | HERMOSTAT<br>MANUFACTU<br>ALVE (WATE | T.<br>JRER'S COI | NTROLLER SH        |                    | OT-GAS REHEAT / | ND SUPPC  | ORT OF VAR  | ABLE SPEEI | D PUMP CC | ONTROL APP | LICATIONS |                  |       |          |                            |                 |          |          |         |         |       |                    |          |              |    |                    |                         |                 |              |
| 8.                         | PROVIDE WITH 75 VA TRANSFORME<br>PROVIDE WITH FAN STATUS, FILTER<br>PROVIDE WITH DISCONNECT SWITC  | R MAINTENANCE TIME AND CC  | ONDENSATE                            | OVERFLO          | W SENSORS.         |                    |                 |   |             |            |           |            |           |                  |       |          |                            |                 |          |          |         |         |       |                    |          |              |    |                    |                         |                 |              |

9. PROVIDE WITH DISCONNECT SWITCH.

10. CONTRACTOR IS RESPONSIBLE FOR ANY MISCELLANEOUS DUCTWORK AND PIPING MODIFICATIONS AND/OR TRANSITIONS NOT SPECIFICALLY SHOWN ON DUCTWORK PLANS TO CONNECT EXISTING DUCTWORK TO HEAT PUMPS. 11. PROVIDE CONDENSATE PUMP. BASIS OF DESIGN: "LITTLE GIANT" MODEL "VCCA-20-P". CONDENSATE PUMP SHALL BE INSTALED PER MANUFACTURER'S RECOMMENDATION. PROVIDE SEPARATE POWER CONNECTION. 120V, 1.5A, 93W. 12. CONTRACTOR SHALL BE REPSONSIBLE FOR CONFIRMING RETURN INLET HANDING PRIOR TO PLACING ORDER.

| No. | Description    | Date       |
|-----|----------------|------------|
| 1   | ISSUED FOR BID | 05/08/2025 |
| I   |                | 05/06/2025 |
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|          |  |              |            |        | DUC           | TLESS/DUCT | ED SPLIT UNITS (\ | ARIABLE RE | FRIGERANT FL | OW SYST | EMS) |             |                 |            |      |      |     |                      |         |
|----------|--|--------------|------------|--------|---------------|------------|-------------------|------------|--------------|---------|------|-------------|-----------------|------------|------|------|-----|----------------------|---------|
|          |  | BASIS OF I   | DESIGN     |        |               |            |                   | INDO       | OR UNIT      |         |      |             | OU <sup>.</sup> | TDOOR UNIT |      |      |     | PIPING               |         |
| חו       | ID SERVES MANUFACTURER TYPE COOLING (BTU) HEATING (BTU) REFRIG MODEL WEIGHT MODEL WEIGHT |              |            |        |               |            |                   |            |              |         |      |             |                 |            |      |      |     |                      |         |
| <b>U</b> | JERVEJ   | WANUFACIURER | ITPE       |        | HEATING (BTO) | REFRIG     | MODEL             | WEIGHT     | (V/PH/HZ)    | MCA     | W    | IVIODEL     |                 | (V/PH/HZ)  | MCA  | MOCP |     | GAS (III) DRAIN (III |         |
| ODU-1    | ACU-1  | LG           | -          | 24,200 | 25,600        | R454B      | -                 | -          | -            | -       | -    | ARUN024GSS4 | 159             | 208/60/1   | 19.6 | 30   | 3/8 | 5/8 1                | 3,5     |
| ACU-1    | EXISTING IT ROOM   | LG           | WALL MOUNT | 24,200 | 25,600        | R454B      | ARNU243SKS4       | 28.7       | 208/60/1     | -       | -    | -           | -               | -          | -    | -    | -   |                      | 1,2,4,6 |
| NOTES:   | 1  |              | 1          |        |               |            | 1                 |            |              | 1       |      |             |                 |            | I    |      |     | 1                    |         |

1. PROVIDE WIRED TYPE SPACE TEMPERATURE CONTROLLER CABLE OF BACKET CONNECTION FOR INTEGRATION FROM BAS. COORDINATE CONTROLLER INSTALLATION LOCATION WITH OWNER. 2. PROVIDE & INSTALL LOW AMBIENT OPERATION KIT FOR COOLING AND HEATING DOWN TO 0°F. 3. PROVIDE EQUIPMENT SUPPORT EQUAL TO MIRO 8-HD<sup>®</sup> WITH SUPPORT PADS.

4. SINGLE SYSTEM INDOOR UNITS TO BE POWERED THROUGH OUTDOOR UNIT.

5. PROVIDE DISCONNECT SWITCHES FOR ALL INDOOR AND OUTDOOR UNITS. OUTDOOR DISCONNECTS SHALL BE RATED FOR OUTDOOR USE. 6. PROVIDE CONDENSATE PUMP. BASIS OF DESIGN: "BLUE DIAMOND" MODEL "MAXIBLUE". 110V, SINGLE PHASE. 23' HEAD, 3.7 GAL/HR FLOW RATE

| ENERGY RECOVERY UNIT SCHEDULE |   |                   |                       |                |                         |                      |                    |                    |           |                         |                      |                    |                    |         |       |         |         |         |         |
|-------------------------------|---|-------------------|-----------------------|----------------|-------------------------|----------------------|--------------------|--------------------|-----------|-------------------------|----------------------|--------------------|--------------------|---------|-------|---------|---------|---------|---------|
|                               | BASIS OF DESIGN       SUPPLY AIRFLOW       EXHAUST AIRFLOW       ELECTRICAL |                   |                       |                |                         |                      |                    |                    |           |                         |                      |                    |                    |         |       |         | _       |         |         |
| ID                            | SERVES  | MANUFAC<br>-TURER | MODEL                 | TOTAL CFM      | EXTERNAL SP (IN.<br>WG) | TOTAL SP (IN.<br>WG) | MOTOR<br>OPERATING | MOTOR SIZE<br>(HP) | TOTAL CFM | EXTERNAL SP (IN.<br>WG) | TOTAL SP (IN.<br>WG) | MOTOR<br>OPERATING | MOTOR SIZE<br>(HP) | VOLTAGE | PHASE | MCA (A) | MOP (A) | WEIGHT  | REMARKS |
| ERU-2                         | HP-10, 36, 37,<br>38  | GREENHECK         | MINICORE-5-VG-F       | 215            | 0.5                     | 0.513                | 0.08               | 1/4                | 215       | 0.5                     | 0.513                | 0.08               | 1/4                | 277     | 1     | 3.4     | 15      | 215 LBS | ALL     |
| 1.                            |   |                   | USED DISCONNECT SV    | VITCH          |                         |                      |                    |                    |           |                         |                      |                    |                    |         |       |         |         |         |         |
| 2.                            | PROVIDE HANGI   |                   |                       |                |                         |                      |                    |                    |           |                         |                      |                    |                    |         |       |         |         |         |         |
| 3.                            |   |                   | . BE FIBER MEMBRANE   |                |                         |                      |                    |                    |           |                         |                      |                    |                    |         |       |         |         |         |         |
| 4.                            | PROVIDE GRAVIT  | Y BACKDRAFT DA    | AMPERS FOR IOUTSIDE   | E AIR AND EXHA | AUST AIR DUCT.          |                      |                    |                    |           |                         |                      |                    |                    |         |       |         |         |         |         |
| 5.                            | PROVIDE OUTSIE  | DE AIR AND EXHA   | UST AIR FILTERS. 2" M | IERV 8.        |                         |                      |                    |                    |           |                         |                      |                    |                    |         |       |         |         |         |         |
| 6.                            | INDOOR MOUNT  | ED.               |                       |                |                         |                      |                    |                    |           |                         |                      |                    |                    |         |       |         |         |         |         |
| 7.                            | PROVIDE TIMED   | EXHAUST FROST     | CONTROL.              |                |                         |                      |                    |                    |           |                         |                      |                    |                    |         |       |         |         |         |         |
| 8.                            | 8. SUPPLY AND EXHAUST FAN CONTROL SHALL RECEIVE A 0-10 VDC SIGNAL.          |                   |                       |                |                         |                      |                    |                    |           |                         |                      |                    |                    |         |       |         |         |         |         |
| 9.                            | PROVIDE BTL CEI   | RTIFIED BACNET (  | CARD FOR INTEGRATIC   | ON TO A BAS SY | STEM.                   |                      |                    |                    |           |                         |                      |                    |                    |         |       |         |         |         |         |

| ID    | MANU. | MODEL   | ТҮРЕ                          | FACE SIZE | NC LEVEL | NECK SIZE | MATERIAL | COLOR | REMARKS   |
|-------|-------|---------|-------------------------------|-----------|----------|-----------|----------|-------|-----------|
| ED-6  | PRICE | PDR     | PERFORATED RETURN DIFFUSER    | 24"X24"   | < 25     | 6"X6"     | STEEL    | WHITE | 2         |
| SD-X  | PRICE | SPD     | SUPPLY PLAQUE DIFFUSER        | 24"X24"   | < 25     | VARIES    | STEEL    | WHITE | 2, 3      |
| SLD-1 | PRICE | SDS-SDA | LINEAR SLOT DIFFUSER 2 SLOTS, | 4.5"      | < 25     | 8" Ø      | STEEL    | WHITE | 1, 2, 4,5 |
| SLD-2 | PRICE | SDS-SDA | LINEAR SLOT DIFFUSER 1 SLOT   | 3.5"      | <35      | 6"Ø       | STEEL    | WHITE | 1, 2, 5   |
| RD-X  | PRICE | PDR     | PERFORATED RETURN DIFFUSER    | 24"X24"   | < 25     | VARIES    | STEEL    | WHITE | 2, 3      |
| RLD-1 | PRICE | SDR100  | LINEAR SLOT DIFFUSER, RETURN, | 5.375"    | < 25     | 8" Ø      | STEEL    | WHITE | 1, 2, 4,5 |

3. "X" DESIGNATES NECK SIZE CONNECTION. REFER TO FLOOR PLANS FOR NECK SIZE CONNECTION.

4. LINEAR SLOT DIFFUSER SHALL INSTALLED IN HARD CEILING. PROVIDE MOUTING HARDWARE.

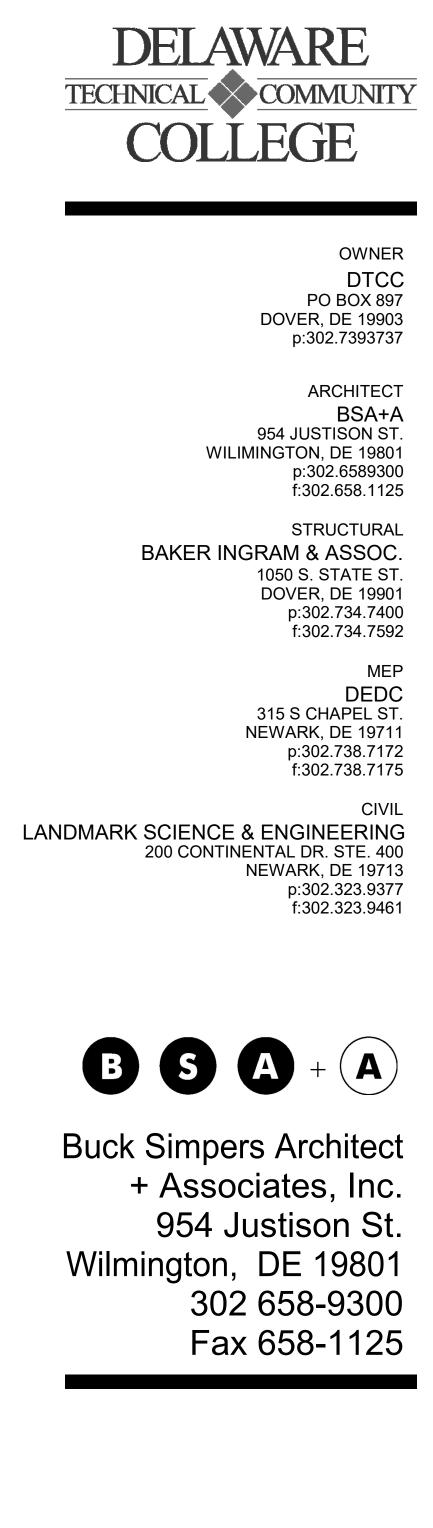
5. LINEAR SLOT DIFFUSER DUCT PLENUM SHALL BE A MINIMUM 16" TALL. DUCT CONNECTION SHALL BE AS CLOSE TO THE TOP O...

|                    |                    |               |                   |                 | PU           | MP SCH        | EDULE                      |                      |                    |                 |           |        |    |         |
|--------------------|--------------------|---------------|-------------------|-----------------|--------------|---------------|----------------------------|----------------------|--------------------|-----------------|-----------|--------|----|---------|
|                    |                    |               |                   | BASIS OF DESIGN | 1            |               | 1                          | FAN                  | 1                  |                 | ELE       | CTRICA | L  |         |
| ID                 | SERVES             | LIQUID        | MANUFAC<br>-TURER | ТҮРЕ            | MODEL        | FLOW<br>(GPM) | HEAD<br>(FEET OF<br>WATER) | MOTOR<br>POWER (BHP) | MOTOR SIZE<br>(HP) | WEIGHT<br>(LBS) | VOLTS     | РН     | HZ | REMARKS |
| (E)CWP-1           | CONDENSER<br>WATER | 30%<br>GLYCOL | BELL &<br>GOSSETT | BASE MOUNTED    | e-1510 2BD   | 190           | 60                         | 3.12                 | 5.00               | 240             | 480       | 3      | 60 | 1-5     |
| (E)CWP-2           | CONDENSER<br>WATER | 30%<br>GLYCOL | BELL &<br>GOSSETT | BASE MOUNTED    | e-1510 2BD   | 190           | 60                         | 3.12                 | 5.00               | 240             | 480       | 3      | 60 | 1-5     |
| <u>NOTES:</u><br>1 |                    | )TOR SHALL    | BE EXISTING TO    | REMAIN. CONTRAC | TOR SHALL RE | PLACE IMF     | PELLER WITH 8              | -<br>3-1/2" IMPELLER | BALANCE PUI        | MPS TO FLO      | W RATE AE | BOVE.  | 1  |         |

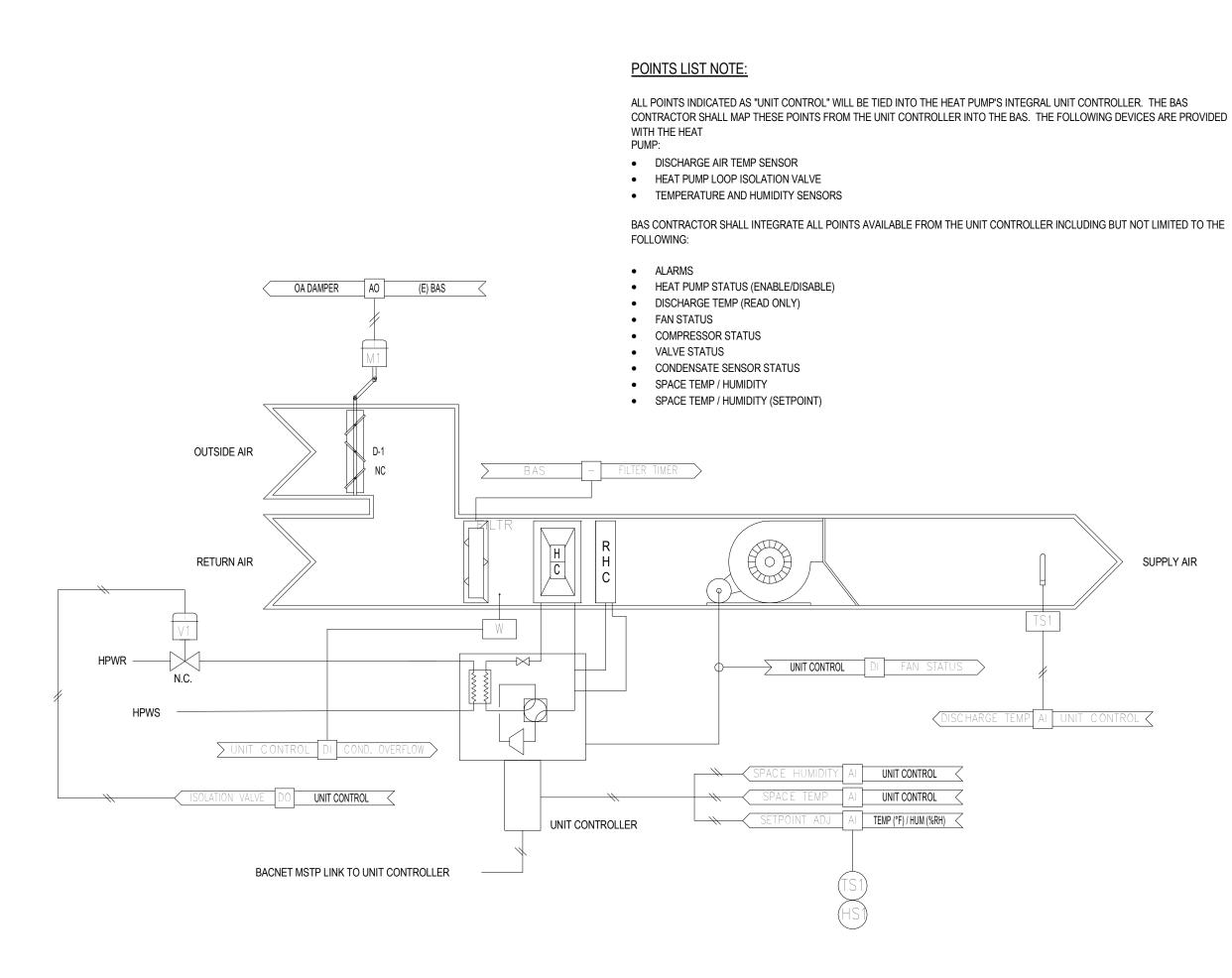
|        | THERMOSTAT SCHEDULE  |                   |                 |           |       |             |                  |            |  |  |  |  |
|--------|--|-------------------|-----------------|-----------|-------|-------------|------------------|------------|--|--|--|--|
| TAG    | MANUFACTURER   | MODEL NO.         | TEMPERATURE     | HUMIDITY  | CO2   | OCCUPANCY   | SET POINT ADJUST | REMARKS    |  |  |  |  |
| T1     | AUTOMATED LOGIC  | ZS2PL-HCM-ALC     | YES             | YES       | YES   | YES         | NO               | NOTE 1,2   |  |  |  |  |
| T2     | AUTOMATED LOGIC  | ZS2P-HCM-ALC      | YES             | YES       | YES   | YES         | YES              | NONE       |  |  |  |  |
| NOTES: |  |                   |                 |           |       |             |                  |            |  |  |  |  |
| 1.     | THERMOSTATS SHAL   | L BE AVERAGED E   | BY THE BAS TO C | ONTROL SU | IPPLY | AIR TEMPERA | TURE FROM HEAT P | UMP.       |  |  |  |  |
| 2.     | <ol> <li>TEMPERATURE SENSOR SHALL HAVE THE ABILITY TO ADJUST ZONE TEMPERATURE SET POINT BY +/- 5 DEGREES-F<br/>DURING UNOCCUPIED HOURS. BAS SHALL CONTROL ZONE TEMPERATURE SET POINT DURING OCCUPIED HOURS.</li> </ol> |                   |                 |           |       |             |                  |            |  |  |  |  |
|        |  | D 11001(3, DAS 31 |                 |           |       |             |                  | , 1100113. |  |  |  |  |



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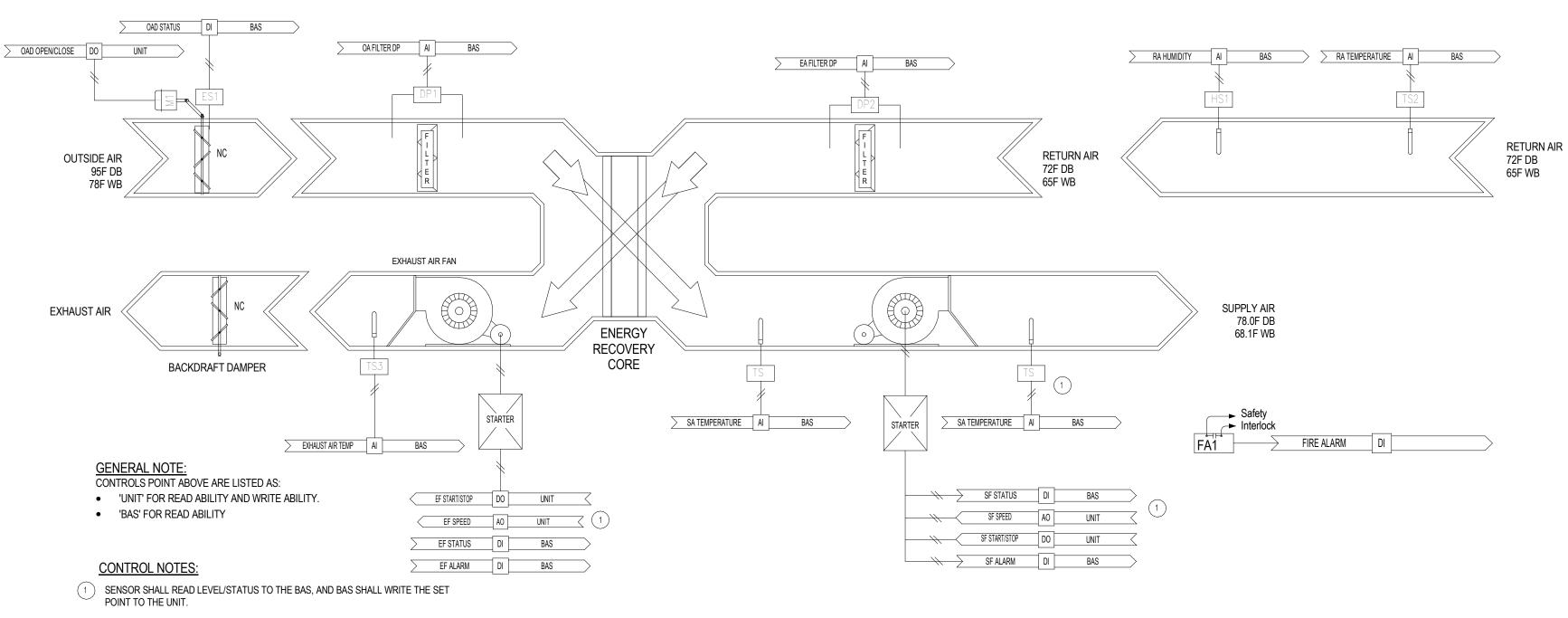




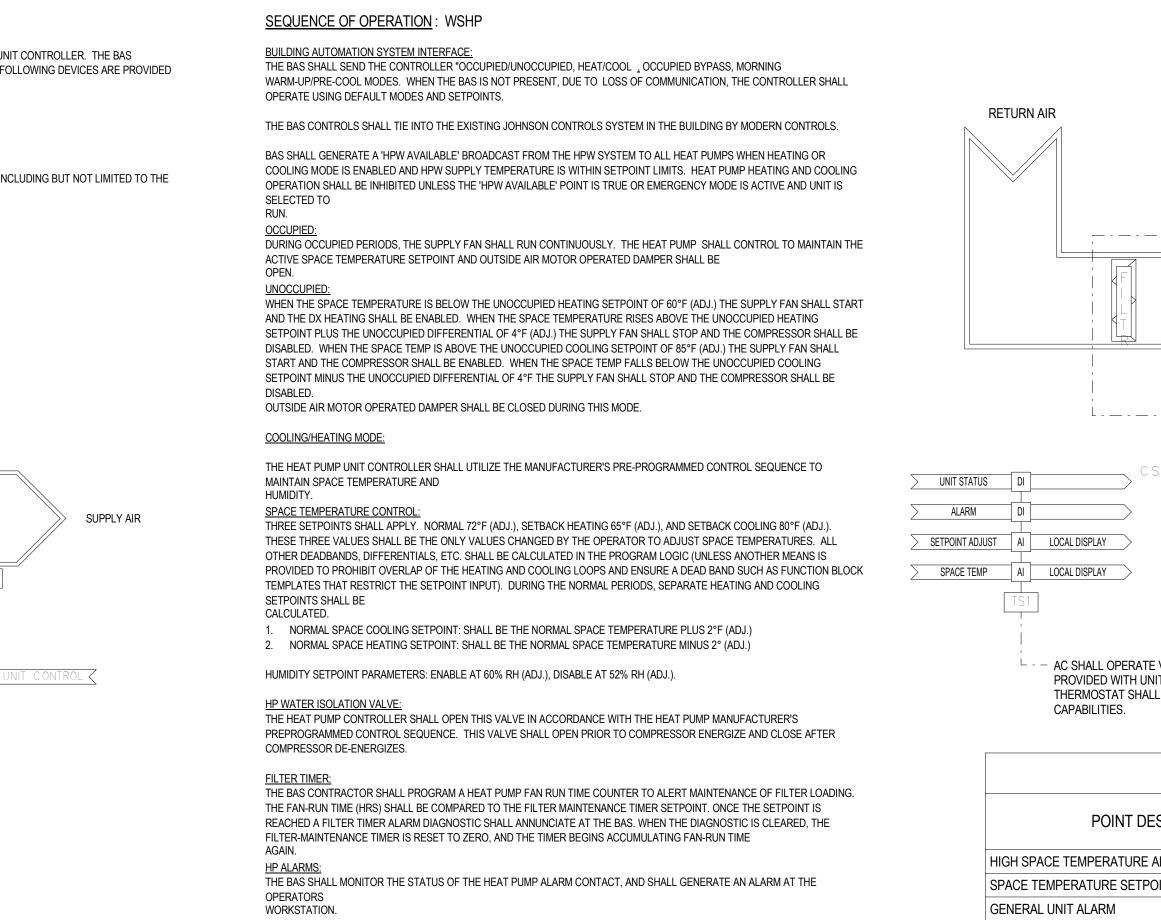


### WATER SOURCE HEAT PUMP (WSHP) CONTROL DIAGRAM M701 NOT TO SCALE

|  | POIN | ITS   | LIST  |             | GENERAL:  |
|--|------|-------|-------|-------------|---|
|  |      | POINT | TYPE  |             | THE SYSTEM CONSISTS OF A ENERGY RECOVERY UNIT SYSTEM (ERU-2) WITH AN OUTDOOR AIR FILTER SECTION, RETURN AIR FIL<br>ENERGY RECOVERY CORE, SUPPLY AIR FAN, AND EXHAUST AIR FAN. THE ERV SHALL BE PROVIDED WITH AN APPLICATION CONTI |
| POINT DESCRIPTOR                         | DI   | AI    | DO AO | - COMMENTS  | INTERFACE WITH THE<br>BAS.  |
| OUTSIDE AIR DAMPER OPEN/CLOSE            |      |       | 0     |             | THE ERV SHALL BE FULLY CONTROLLED BY THE BAS. THE BAS CONTROLS SHALL TIE INTO THE EXISTING JOHNSON CONTROLS S'<br>BUILDING BY MODERN  |
| OUTSIDE AIR DAMPER END SWITCH            | 0    |       |       | PROOF ALARM | CONTROLS.<br>AIR HANDLER CONTROL LOGIC STRATEGIES SHALL INCLUDE:  |
| OUTSIDE AIR TEMPERATURE SENSOR           |      | 0     |       |             | 1. MIXED AIR LOW LIMIT  |
| OUTSIDE AIR FILTER DIFFERENTIAL PRESSURE |      | 0     |       | PROOF ALARM | 2. HIGH PRESSURE SAFETY   |
| OUTSIDE AIRFLOW MEASURING STATION        |      | 0     |       |             | SUPPLY AND EXHAUST FANS:  |
| EXHAUST AIR DAMPER OPEN/CLOSE            |      |       | 0     |             | BAS SHALL CONTROL THE STARTING AND STOPPING OF THE SUPPLY AND EXHAUST FANS AS FOLLOWS:  |
| EXHAUST AIR DAMPER END SWITCH            | 0    |       |       | PROOF ALARM | START/STOP: BAS SHALL COMMAND THE OPERATION OF THE SUPPLY AND EXHAUST FANS AND THEY SHALL RUN CONTINUOUSLY  |
| EXHAUST AIR TEMPERATURE SENSOR           |      | 0     |       |             | ERV IS "ENERGIZED" AS INDICATED BY SCHEDULED OCCUPANCY CONTROL LOGIC STRATEGY . THE FANS SHALL BE OFF DURING I<br>MODE.   |
| EXHAUST AIR FILTER DIFFERENTIAL PRESSURE |      | 0     |       | PROOF ALARM |   |
| EXHAUST FAN STATUS                       | 0    |       |       | PROOF ALARM | PROOF: BAS SHALL PROVE OPERATION OF FANS AND USE THE STATUS INDICATION TO ACCUMULATE RUNTIMES. UPON FAILURE C<br>BAS SHALL DE-ENERGIZE THE ERV, LOCKOUT THE RUN COMMAND, AND ENUNCIATE AN   |
| EXHAUST FAN START/STOP                   |      |       | 0     |             | ALARM. <u>OUTSIDE/EXHAUST AIR DAMPERS:</u>  |
| EXHAUST FAN ALARM                        | 0    |       |       |             | BAS SHALL CONTROL THE DAMPERS AS FOLLOWS:   |
| EXHAUST FAN SPEED                        |      |       | 0     |             |   |
| SUPPLY FAN STATUS                        | 0    |       |       | PROOF ALARM | UNOCCUPIED MODE:<br>WHEN ERV IS IN UN-OCCUPIED MODE THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE FULLY CLOSED.  |
| SUPPLY FAN START/STOP                    |      |       | 0     |             | OCCUPIED MODE:  |
| SUPPLY FAN ALARM                         | 0    |       |       |             | WHEN ERV IS IN OCCUPIED MODE THE OUTSIDE AIR AND EXHAUST AIR DAMPERS SHALL BE FULLY OPEN.   |
| SUPPLY FAN SPEED                         |      |       | 0     |             | SAFETIES:   |
| SUPPLY AIR TEMPERATURE SENSOR            |      | 0     |       |             | UPON INDICATION OF THE SUPPLY OR RETURN SMOKE DETECTOR. OR BUILDING FIRE ALARM SYSTEM THE UNIT SHALL BE DE-ENE  |
| RETURN AIR HUMIDITY SENSOR               |      | 0     |       |             | DETECTOR SHALL NOTIFY THE FIRE ALARM SYSTEM AND BAS, SHUT DOWN THE FANS, OUTSIDE, EXHAUST DAMPERS SHALL FULLY   |
| RETURN AIR TEMPERATURE SENSOR            |      | 0     |       |             | ENUNCIATE AN ALARM, A LEVEL 2<br>ALARM.   |
| RETURN AIR SMOKE DETECTOR                | 0    |       |       |             | LOW/HIGH TEMPERATURE ALARM: THE BAS SHALL MONITOR THE TARGET DISCHARGE AIR TEMPERATURE AND ACTUAL DISCHARGE<br>TEMPERATURE. IF THESE TEMPERATURES ARE MORE THAN 10°F (ADJ.) FOR MORE THAN 5 MINUTES (ADJ) THE UNIT'S SUPPLY AND   |
| SUPPLY AIR SMOKE DETECTOR                | 0    |       |       |             | FANS SHALL DE-ENERGIZE AND AN ALARM SHALL BE SENT TO THE BAS. SAFETY SHALL NOT ALARM UNDER DEHUMIDIFICATION   |
| UNIT ALARM                               | 0    |       |       |             | MODE.<br>BAS ENABLE/DISABLE LOGIC SHALL INCLUDE A MINIMUM ON/OFF CYCLE DELAY OF 3 MINUTES (ADJ.)  |
| FIRE ALARM                               | 0    |       |       |             | BAS SHALL ALARM WHENEVER THE UNIT GENERAL ALARM ACTIVATES.  |

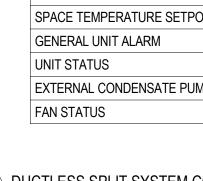


ENERGY RECOVER UNIT CONTROLS DIAGRAM M701 NOT TO SCALE

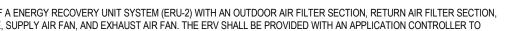


HEAT PUMP UNIT SHALL START, STOP, AND PROTECT THE COMPRESSORS VIA UNIT MOUNTED CONTROLS. REFER TO THE SPECIFICATION ON THE RESPECTIVE UNIT FOR THE UNIT MOUNTED CONTROLS AND SAFETIES. BAS ENABLE/DISABLE LOGIC SHALL INCLUDE A MINIMUM ON/OFF CYCLE DELAY OF 3 MINUTES

WATER ALARM - IF THE WATER ALARM SENSOR DETECTS WATER THE HEAT PUMP COMPRESSOR SHALL DE-ENERGIZE AND THE BAS SHALL SEND AN AI ARM

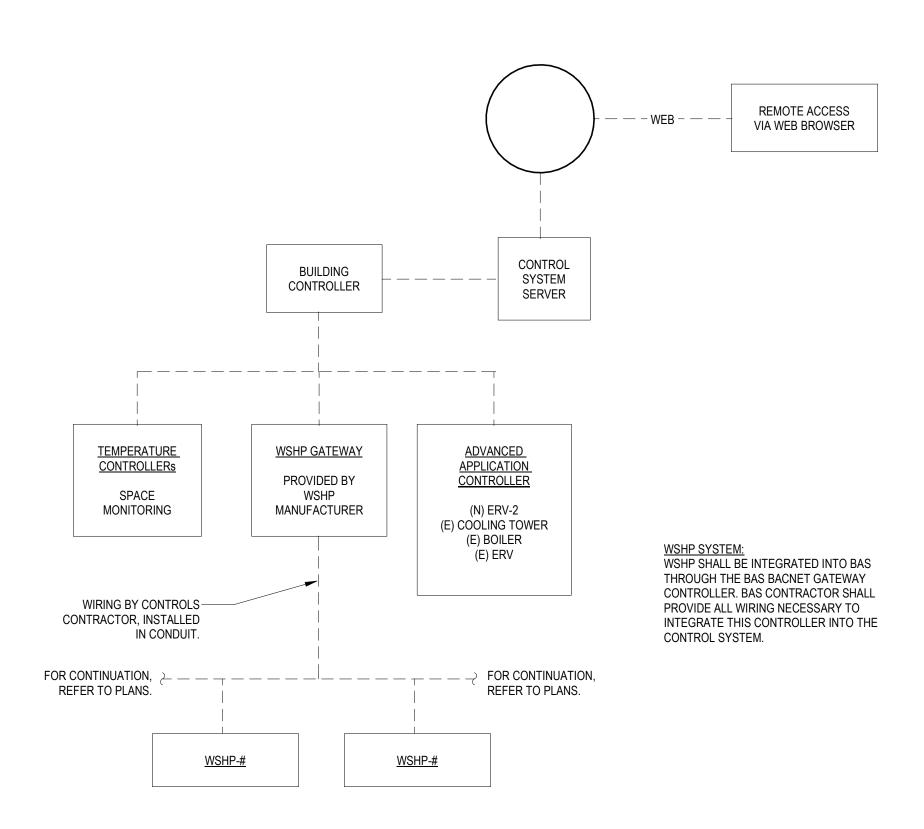


M701 NOT TO SCALE

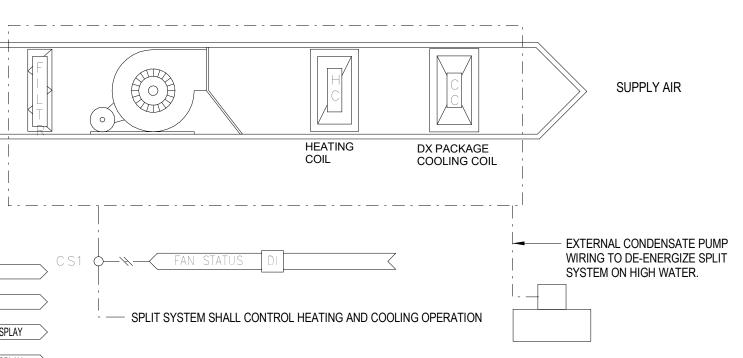


### SUPPLY OR RETURN SMOKE DETECTOR, OR BUILDING FIRE ALARM SYSTEM THE UNIT SHALL BE DE-ENERGIZED. SMOKE THE FIRE ALARM SYSTEM AND BAS, SHUT DOWN THE FANS, OUTSIDE, EXHAUST DAMPERS SHALL FULLY CLOSE AND

### ALARM: THE BAS SHALL MONITOR THE TARGET DISCHARGE AIR TEMPERATURE AND ACTUAL DISCHARGE AIR TEMPERATURES ARE MORE THAN 10°F (ADJ.) FOR MORE THAN 5 MINUTES (ADJ) THE UNIT'S SUPPLY AND EXHAUST AIR



BUILDING CONTROL SYSTEM RISER M701 / NOT TO SCALE



### - AC SHALL OPERATE VIA 7 DAY PROGRAMMABLE THERMOSTAT PROVIDED WITH UNIT AND SHALL BE INTEGRATED INTO THE BAS. THERMOSTAT SHALL HAVE BACNET MS/TP COMMUNICATION

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|----------------------|-----|-------|------|----|----------------|
| ESCRIPTOR            | F   | POINT | TYPE | Ξ  | COMMENTS       |
|                      | DI  | Al    | DO   | AO | COMMENTS       |
| ALARM                |     | 0     |      |    | CRITICAL ALARM |
| OINT                 |     | 0     |      |    |                |
|                      | o   |       |      |    | CRITICAL ALARM |
|                      | o   |       |      |    |                |
| IMP HIGH WATER ALARM | o   |       |      |    |                |
|                      | o   |       |      |    |                |
|                      |     |       |      |    |                |

3 DUCTLESS SPLIT SYSTEM CONTROL DIAGRAM

SEQUENCE OF OPERATION:

<u>GENERAL:</u>

THE SYSTEM CONSISTS OF A NEW DUCTLESS SPLIT SYSTEM (DFS) WITH FILTER SECTIONS. HEAT PUMP CONDENSING UNIT, REVERSING VALVE, AND SUPPLY AIR FAN. THE DUCTLESS SPLIT SYSTEM (DFS) SHALL BE CONTROLLED VIA VENDOR PROVIDED CONTROLLER, AND PROGRAMMABLE 7-DAY THERMOSTAT. THE BAS CONTROLS SHALL TIE INTO THE EXISTING JOHNSON CONTROLS SYSTEM IN THE

BUILDING BY MODERN CONTROLS. COORDINATE SCHEDULE WITH OWNER.

UNIT SHALL BE PROVIDED WITH SAFETY INTERLOCK TO PREVENT HEATING AND COOLING

TO OPERATE SIMULTANEOUSLY. CONTROLS CONTRACTOR SHALL MAP ALL AVAILABLE POINTS INTO BAS FROM BACNET CONTROLLER (PROVIDE GATEWAY IF NEEDED).

<u>SUPPLY FAN:</u>

WIRING TO DE-ENERGIZE SPLIT START/STOP: THE SUPPLY FAN SHALL RUN CONTINUOUSLY WHENEVER THE AHU IS "ENERGIZED" IN OCCUPIED MODE. SUPPLY FAN SHALL CYCLE ON/OFF DURING

UN-OCCUPIED MODE. SPACE TEMPERATURE CONTROL

TWO SETPOINTS SHALL APPLY.

1. HEATING (70°F ADJ.) 2. COOLING (75°F ADJ.)

THESE SETPOINT VALUES SHALL BE THE ONLY VALUES CHANGED BY THE OPERATOR TO ADJUST SPACE TEMPERATURES. COORDINATE FINAL VALUES WITH OWNER.

HEATING SECTION:

REVERSING CYCLE: WHENEVER THE DFS IS ENERGIZED, HEATING SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT. COOLING SECTION:

DX COOLING: WHENEVER THE DFS IS ENERGIZED, COOLING SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

SAFETIES: ALARM FOR GENERAL EQUIPMENT MALFUNCTION

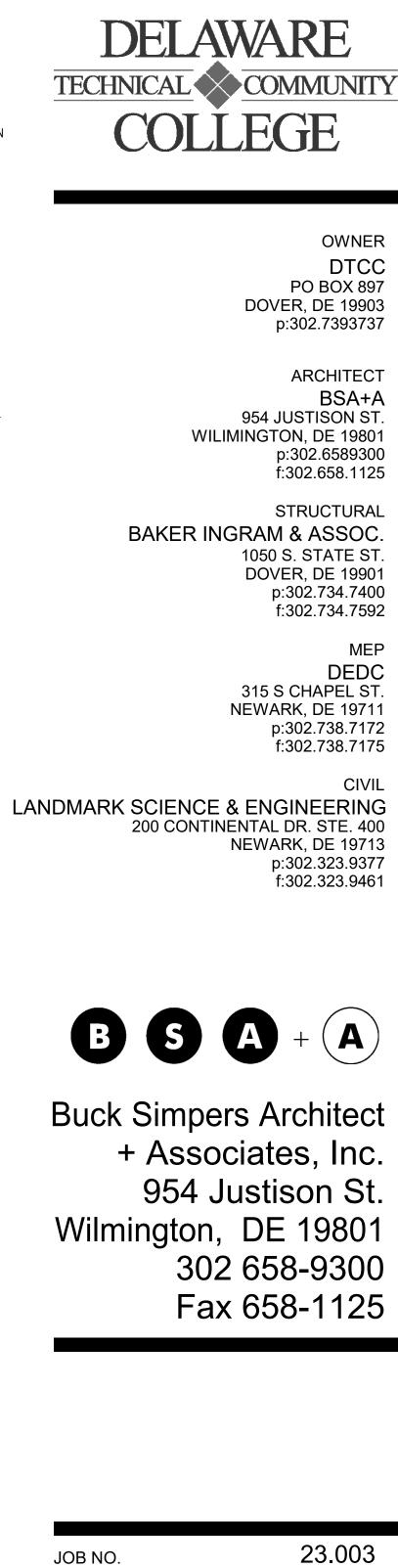
• ALARM IF TEMPERATURE RAISES ABOVE 80°F (ADJ.). EXTERNAL CONDENSATE PUMP:

CONDENSATE PUMP SHALL OPERATE VIA IT'S OWN CONTROLS/FLOAT.

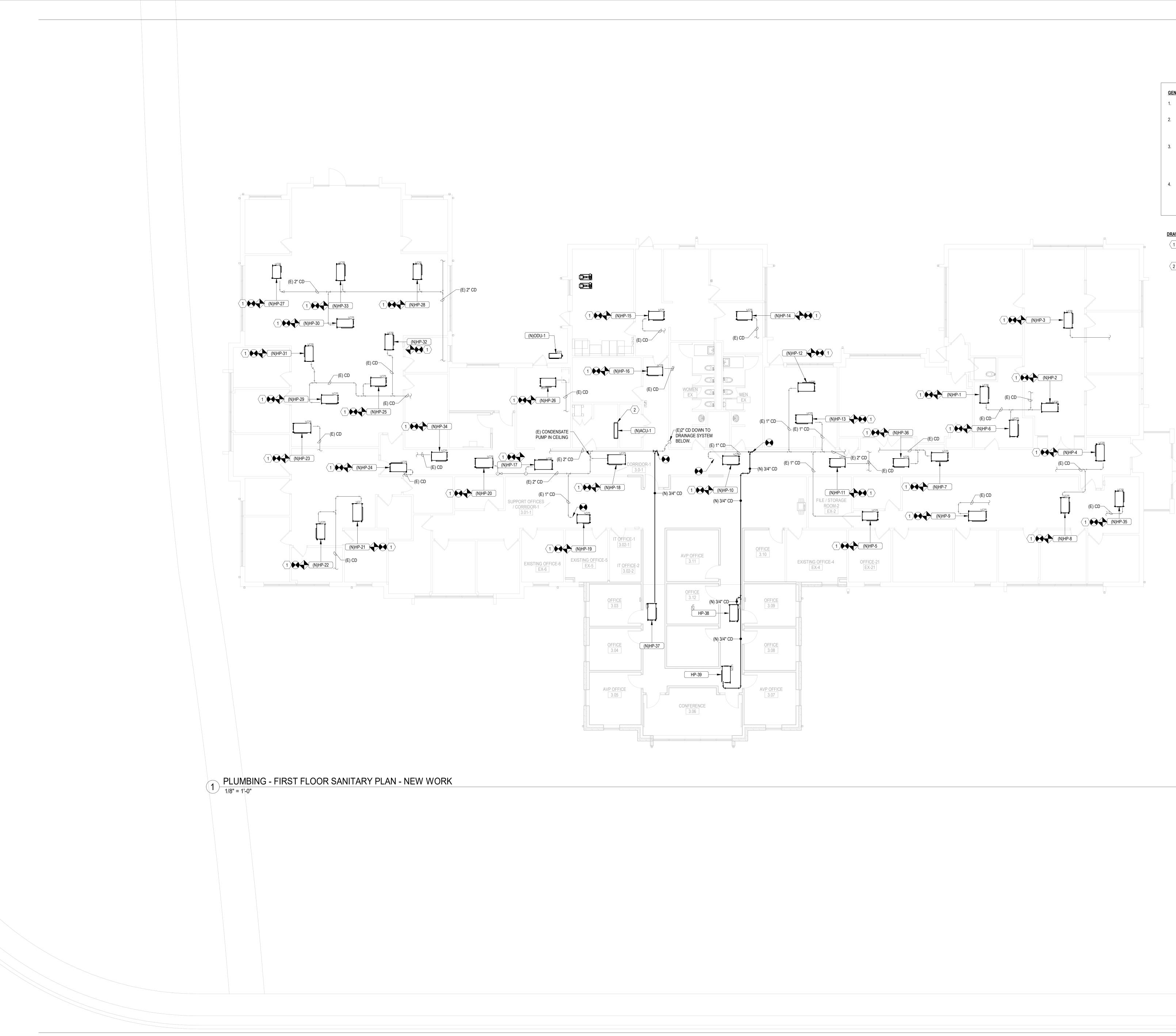
CONDENSATE PUMP SHALL BE INTERLOCKED WITH SPLIT SYSTEM TO DE-ENERGIZE SPLIT SYSTEM WHEN HIGH WATER SAFETY ACTIVATES.

BAS SHALL ANNUNCIATE AN ALARM WHEN SPLIT SYSTEM IS DE-ENERGIZED FROM CONDENSATE PUMP HIGH WATER LEVEL.

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## **GENERAL NOTES:**

- 1. SEE DRAWING M000 FOR LEGENDS AND ABBREVIATIONS.
- 2. ALL NEW CONDENSATE DRAINS SHALL BE SLOPED 1/8" PER FOOT. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDENSATE DRAIN ELEVATION PRIOR TO CONNECTION.
- 3. DRAWINGS INDICATE GENERAL CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ARRANGEMENT OF EXISTING PIPING, FITTINGS, AND SPECIALTIES BEFORE PERFORMING WORK. INSTALL PIPING ADJACENT TO MACHINE TO ALLOW SERVICE AND MAINTENANCE.
- 4. CONNECT HEAT PUMP CONDENSATE DRAIN PAN TO INDIRECT WASTE CONNECTION WITH CONDENSATE TRAP OF ADEQUATE DEPTH TO SEAL AGAINST FAN PRESSURE. INSTALL CLEANOUTS IN PIPIING AT CHANGES OF DIRECTION.

## DRAWING NOTES:

- 1 REFER TO DETAIL 16/M501 AND 17/M501 FOR CONDENSATE PIPE DISCONNECTION AND RECONNECTION SCOPE OF WORK.
- 2 NEW CONDENSATE PIPE ROUTE FROM AC-1 SHALL FOLLOW THE PREVIOUS CONDENSATE ROUTING AND DISCHARGE AT THE SAME LOCATION.

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KEYPLAN



23.003 JOB NO. DTCC OFFICE OF THE PRESIDENT EXPANSION

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ELECTRICAL SYMBOL LEGEND

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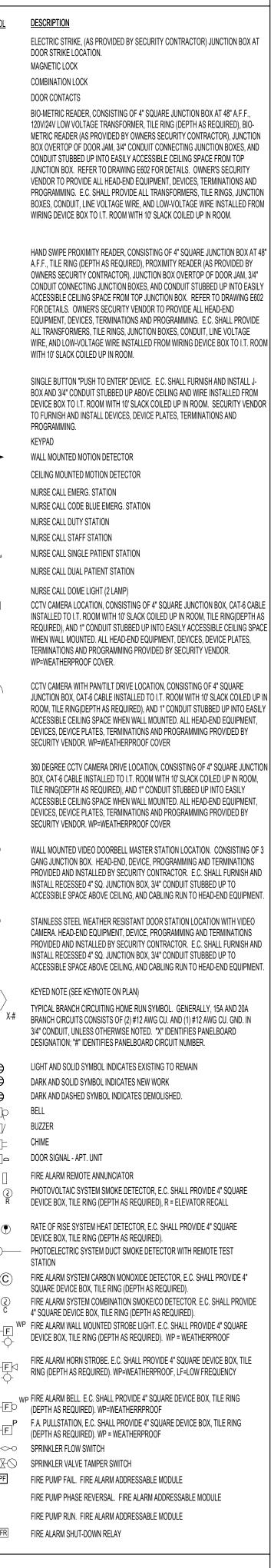
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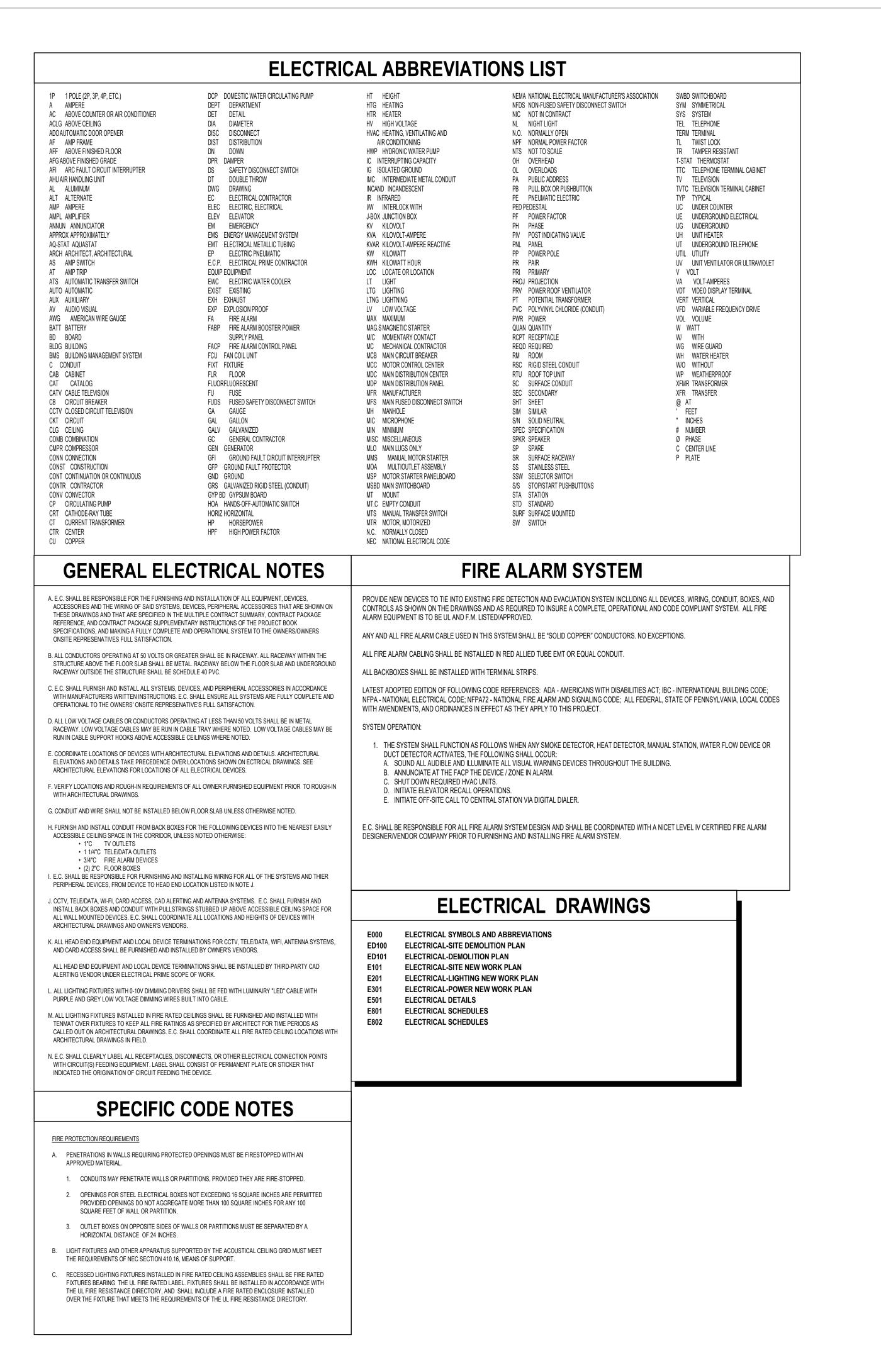
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|                    |  |                               | ELECTRICAL SYMBOL I   |
|--------------------|--|-------------------------------|---|
| <u>SYMBOL</u><br>↔ | DESCRIPTION<br>20A, 120-277V AC, SINGLE POLE TOGGLE SWITCH. MH = 48" A.F.F. AS MEASURED  | <u>SYMBOL</u><br>Hooo]        | DESCRIPTION<br>3 BUTTON OVERHEAD DOOR CONTROLLER  |
| \$4 \$3            | TO BOTTOM OF DEVICE BOX.<br>20A, 120-277V AC, THREE WAY TOGGLE SWITCH. MH = 48" A.F.F. AS MEASURED TO<br>BOTTOM OF DEVICE BOX.<br>20A, 120-277V AC, FOUR WAY TOGGLE SWITCH. MH = 48" A.F.F. AS MEASURED TO   | <br>₽                         | 20A, 120V AC, NEMA 5-20R, DUPLEX RECEPTACLE, SINGLE GANG BOX, TILE RING<br>(DEPTH AS REQUIRED), COVERPLATE. MOUNTING HEIGHT TO CENTER OF DEVICE<br>= 18" AFF TO CENTER OF DEVICE BOX, U.O.N., X" = INCHES A.F.F. MOUNTING<br>HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK), T = TAMPER  |
| D<br>≎             | BOTTOM OF DEVICE BOX.<br>20A, 120V-277V AC, 0-10V DIMMING WALL SWITCH AS MANUFACTURED BY<br>WATTSTOPPER MODEL#LMSW-101. E.C. TO INSTALL PER MANUFACTURERS<br>WRITTEN INSTRUCTIONS. COLOR AS SELECTED BY ARCHITECT.   | ⊕ <sup>GFI</sup>              | PROOF<br>20A, 120V AC, NEMA 5-20R, DUPLEX GROUND FAULT CIRCUIT INTERRUPTER TYPE<br>RECEPTACLE (GFI), SINGLE GANG BOX, TILE RING (DEPTH AS REQUIRED).<br>MOUNTING HEIGHT TO CENTER OF DEVICE = 18" A.F.F., X" = INCHES A.F.F.<br>MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK), WP =  |
| <sup>€</sup> DD    | 24V DC, SINGLE BUTTON DIGITAL DIMMING WALL SWITCH, SWITCH MOUNTING<br>HEIGHT = 48" A.F.F. TO THE TOP OF DEVICE BOX, U.O.N SWITCH SHALL BE MODEL<br>NUMBER LMDM-101 AS MANUFACTURED BY WATTSTOPPER OR EQUAL. DIGITAL<br>WALL SWITCH SHALL BE FED BY DIGITAL ROOM CONTROLLER. CABLING BETWEEN<br>CONTROLLER AND DIGITAL WALL SWITCH SHALL BE CAT-5E CABLE WITH RJ45<br>CONNECTORS. COLOR AS SELECTED BY ARCHITECT.   | =€ <sup>ISO</sup>             | IN USE WEATHERPROOF COVER.<br>20A, 120V AC, NEMA 5-20R, DUPLEX RECEPTACLE, SINGLE GANG BOX, TILE RING<br>(DEPTH AS REQUIRED). MOUNTING HEIGHT TO CENTER OF DEVICE = 18" A.F.F., X"<br>= INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH<br>MILLWORK), ISO = GASKETED STAINLESS STEEL COVERPLATE.   |
| \$<br>oc           | 20A, 120-277V AC, SINGLE BUTTON WALL MOUNT, PASSIVE INFRARED SINGLE<br>RELAY ON/OFF OCCUPANCY SENSOR. SWITCH MOUNTING HEIGHT = 48" A.F.F. TO<br>CENTER OF DEVICE BOX, U.O.N. OCCUPANCY SWITCH SHALL BE #PW-101 AS<br>MANUFACTURED BY WATTSTOPPER.  |                               | 20A, 120V AC, NEMA 5-20R, DUPLEX GROUND FAULT CIRCUIT INTERRUPTER TYPE<br>RECEPTACLE (GFI), SINGLE GANG BOX, TILE RING (DEPTH AS REQUIRED).<br>MOUNTING HEIGHT TO CENTER OF DEVICE = 48" A.F.F, ISO = GASKETED<br>STAINLESS STEEL COVERPLATE  |
| \$<br>0C2          | 20A, 120-277V AC, TWO BUTTON WALL MOUNT, DUAL TECHNOLOGY (PASSIVE<br>INFRARED AND ULTRASONIC), DUAL RELAY OCCUPANCY SENSOR. SWITCH<br>MOUNTING HEIGHT = 48° A.F.F. TO CENTER OF DEVICE BOX, U.O.N. OCCUPANCY<br>SWITCH SHALL BE #DW-200 AS MANUFACTURED BY WATTSTOPPER.  | - <b>⊕</b> \$                 | 20A, 120V AC, NEMA 5-20R, SURFACE MOUNTED DUPLEX RECEPTACLE, 4" SQUARE<br>BOX, CONDUIT STUBBED UP TO EASILY ACCESSIBLE SPACE ABOVE CEILING.<br>MOUNTING HEIGHT TO CENTER OF DEVICE = 18" AFF TO CENTER OF DEVICE BOX,<br>U.O.N., X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE<br>(COORDINATE WITH MILLWORK).  |
| <sup>\$</sup> oc3  | 20A, 120-277V AC, SINGLE BUTTON 0-10V DIMMING WALL MOUNT, PASSIVE<br>INFRARED, SINGLE RELAY OCCUPANCY SENSOR. SWITCH MOUNTING HEIGHT = 48"<br>A.F.F. TO CENTER OF DEVICE BOX, U.O.N. OCCUPANCY SWITCH SHALL BE #PW-311   | <b>⇒</b> <sup>∪</sup>         | 20A, 120V AC, NEMA 5-20R, DUPLEX RECEPTACLE WITH 3.1 AMP USB CHARGING PORT. MOUNTING HEIGHT TO CENTER OF DEVICE = 18" AFF TO CENTER OF DEVICE BOX, U.O.N., X"= INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK).  |
| \$ D10             | AS MANUFACTURED BY WATTSTOPPER.<br>20A, 120-277VAC, 0-10V DIMMING SWITCH AS MANUFACTURED BY WATTSTOPPER<br>MODEL# RH4FBL3PTC. E.C. TO INSTALL PER MANUFACTURERS INSTRUCTIONS.<br>COLOR TO BE SELECTED BY ARHCITECT.  |                               | 20A, 120V AC, NEMA 5-20R, DOUBLE DUPLEX RECEPTACLE, DOUBLE GANG BOX,<br>TILE RING (DEPTH AS REQUIRED). MOUNTING HEIGHT TO CENTER OF DEVICE = 18"<br>A.F.F., X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE<br>(COORDINATE WITH MILLWORK), T = TAMPER PROOF, ISO = GASKETED STAINLESS<br>STEEL COVERPLATE<br>20A, 120V AC, NEMA 5-20R, GROUND FAULT CIRCUIT INTERRUPTER (GFI) TYPE   |
| €<br>FC            | 20A, 120-277VAC, FAN CONTROLLER WALL BOX AS MANUFACTURED BY<br>WATTSTOPPER MODEL# CDSC6-X. E.C. TO INSTALL PER MANUFACTURERS<br>INSTRUCTIONS. COLOR TO BE SELECTED BY ARCHITECT.   | - <del>\\</del>               | DOUBLE DUPLEX RECEPTACLE, DOUBLE GANG BOX, TILE RING (DEPTH AS<br>REQUIRED). MOUNTING HEIGHT TO CENTER OF DEVICE = 18" A.F.F., X" = INCHES<br>A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH MILLWORK),<br>T = TAMPER PROOF WP = IDENTIFIES "IN USE" WEATHERPROOF COVER.   |
| ¢cc                | 20A, 120-277VAC, RGBW LED LIGHTING CONTROLLER, COLORDIAL PRO AS<br>MANUFACTURED BY COLOR KINETICS OR EQUAL. E.C. SHALL FURNISH AND<br>INSTALL CONTROLLER AND WIRING TO ALL DEVICES.<br>1000 SQ. FT. COVERAGE CEILING MOUNTED OCCUPANCY SENSOR., 24V DC, DUAL   | =∰ <sup>48"</sup><br>ISO      | 20A, 120V AC, NEMA 5-20R, SURFACE MOUNTED DOUBLE DUPLEX RECEPTACLE,<br>CONDUIT STUBBED UP TO EASILY ACCESSIBLE SPACE ABOVE CEILING, GASKETED.<br>X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH<br>MILLWORK), PROOF WP = IDENTIFIES "IN USE" WEATHERPROOF COVER, ISO =   |
| OC                 | TECHNOLOGY (ULTRASONIC AND PASSIVE INFRARED). SENSOR SHALL BE MODEL<br>NUMBER LMDC-100 AS MANUFACTURED BY WATTSTOPPER OR EQUAL. FINISH<br>SHALL BE SELECTED BY OWNER/ARCHITECT. OCCUPANCY SENSOR SHALL BE FED<br>FROM DIGITAL ROOM CONTROLLER. CABLING BETWEEN CONTROLLER AND<br>OCCUPANCY SENSOR SHALL BE CAT-5E CABLE WITH RJ45 CONNECTORS.  | ۲X-XXR                        | GASKETED STAINLESS STEEL COVERPLATE<br>SPECIAL PURPOSE ELECTRICAL RECEPTACLE. XX-XXR = NEMA CONFIGURATION,<br>X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE (COORDINATE WITH<br>MILLWORK).   |
| 0C2                | 1000 SQ. FT. COVERAGE CEILING MOUNTED EXTENDED RANGE OCCUPANCY<br>SENSOR., 24V DC, PASSIVE INFRARED. SENSOR SHALL BE MODEL NUMBER<br>LMPC-100 AS MANUFACTURED BY WATTSTOPPER OR EQUAL. FINISH SHALL BE<br>SELECTED BY OWNER/ARCHITECT. OCCUPANCY SENSOR SHALL BE FED FROM<br>DIGITAL ROOM CONTROLLER. CABLING BETWEEN CONTROLLER AND OCCUPANCY<br>SENSOR SHALL BE CAT-5E CABLE WITH RJ45 CONNECTORS.   | 5 ⊕~⊡<br>XX-XXR               | ELECTRIC CORD REEL, FED FROM GFCI BRANCH CIRCUIT BREAKER. 20A, 250VAC<br>RATED, YELLOW INDUSTRIAL REEL, UL TYPE 1, 35FT #12/3 SJO CORD, W/ YELLOW<br>FEMALE WATERPROOF SINGLE RECEPTACLE. CORD REEL SHALL BE MODEL<br>#HBLI35123Y WITH RECEPTACLE END #HBL1533 AS MANUFACTURED BY HUBBELL.<br>PROVIDE BALL STOP #HBL112BS AND PIVOT BASE #HVLI340PB AS MANUFACTURED<br>BY HUBBELL. XX-XXR = NEMA CONFIGURATION.   |
| ⊢©9                | 1000 SQ. FT. COVERAGE WALL MOUNTED OCCUPANCY SENSOR., 24V DC, PIR<br>TECHNOLOGY (PASSIVE INFRARED). SENSOR SHALL BE MODEL NUMBER LMPX-100<br>AS MANUFACTURED BY WATTSTOPPER OR EQUAL. OCCUPANCY SENSOR SHALL BE<br>FED FROM DIGITAL ROOM CONTROLLER. CABLING BETWEEN CONTROLLER AND<br>OCCUPANCY SENSOR SHALL BE CAT-5E CABLE WITH RJ45 CONNECTORS.  | ?                             | ELECTRIC CORD REEL, FED FROM GFCI BRANCH CIRCUIT BREAKER. 30A, 250VAC<br>RATED, YELLOW INDUSTRIAL REEL, UL TYPE 1, #10/3 SJO CORD, W/ YELLOW<br>LOCKING FEMALE WATERPROOF RECEPTACLE. CORD REEL SHALL BE MODEL<br>#HBLI35103Y WITH RECEPTACLE END #HBL2613VY AS MANUFACTURED BY<br>HUBBELL. PROVIDE BALL STOP #HBL114BS AND PIVOT BASE #HVL1340PB AS<br>MANUFACTURED BY HUBBELL. XX-XXR = NEMA CONFIGURATION.   |
| ⊢œ                 | WALL MOUNTED DAYLIGHT HARVESTING DIGITAL CLOSED LOOP SINGLE ZONE<br>PHOTOCELL, 24V DC. SENSOR SHALL BE MODEL NUMBER LMLS-400 WITH WALL<br>MOUNT BRACKET #LMLS-MB2 AS MANUFACTURED BY WATTSTOPPER OR EQUAL.<br>PHOTOCELL SHALL BE FED FROM DIGITAL ROOM CONTROLLER. CABLING<br>BETWEEN CONTROLLER AND PHOTOCELL SHALL BE CAT-5E CABLE WITH RJ45<br>CONNECTORS.  | ⊢⊕<br>⊢⊕ D<br>⊢⊕ S            | CLOCK (TYPE DENOTED)<br>RECESSED JUNCTION BOX, CONDUIT STUBBED UP TO EASILY ACCESSIBLE SPACE<br>ABOVE CEILING. X" = INCHES A.F.F. MOUNTING HEIGHT TO CENTER OF DEVICE<br>(COORDINATE WITH MILLWORK), D = JBOX FOR TELE/DATA.<br>SURFACE MOUNTED JUNCTION BOX, RACEWAY STUBBED UP TO EASILY<br>ACCESSIBLE SPACE ABOVE CEILING. X" = INCHES A.F.F. MOUNTING HEIGHT TO   |
| <b>□</b> RC1       | 20A, 120V AC, 60HZ, ON/OFF DIGITAL ROOM CONTROLLER, SINGLE RELAY, UL<br>LISTED, U.O.N. SWITCH SHALL BE MODEL NUMBER LMRC-101 AS MANUFACTURED<br>BY WATTSTOPPER OR EQUAL. CABLING BETWEEN LOW VOLTAGE DEVICES AND<br>DIGITAL ROOM CONTROLLER SHALL BE CAT-5E CABLE WITH RJ45 CONNECTORS.<br>E.C. SHALL MOUNT DIGITAL ROOM CONTROLLER SECURELY ABOVE DROP CEILING<br>IN ACCESSIBLE SPACE. ROOM CONTROLLER'S CONTROLLING LIGHTING FED FROM  | ⊢① FF                         | CENTER OF DEVICE (COORDINATE WITH MILLWORK)<br>SURFACE MOUNTED JUNCTION BOX FOR FURNITURE POWER FEED, RACEWAY<br>STUBBED UP TO EASILY ACCESSIBLE SPACE ABOVE CEILING. X" = INCHES A.F.F.<br>COORDINATE MOUNTING HEIGHT WITH FURNITURE VENDOR.   |
|                    | EMERGENCY CIRCUITS SHALL BE PROVIDED WITH AN EMERGENCY BYPASS<br>CONTROLLER EMERGENCY BYPASS CONTROLLER SHALL BE MANUFACTURED BY<br>WATTSTOPPER, MODEL ELCU-200. E.C. SHALL PROVIDE (1) ONE DIGITAL WIRELESS<br>CONFIGURATION TOOL AS MANUFACTURED BY WATTSTOPPER, MODEL LMCT-100.<br>THE DIGITAL CONFIGURATION TOOL SHALL BE USED TO PROGRAM THE DIGITAL<br>ROOM CONTROLLERS.   |                               | FLOOR/CEILING RECESSED JUNCTION BOX<br>PULL BOX<br>POWER OR DISTRIBUTION PANEL. HIDDEN LINE REPRESENTS ELECTRICAL<br>CLEARANCE SPACE.<br>TRANSFORMER (SIZE AS DENOTED). HIDDEN LINE REPRESENTS ELECTRICAL<br>CLEARANCE SPACE.   |
| D RCD1             | 20A, 120V AC, 60HZ, ON/OFF/0-10V DIMMING DIGITAL ROOM CONTROLLER, SINGLE<br>RELAY, UL LISTED, U.O.N. SWITCH SHALL BE MODEL NUMBER LMRC-211 AS<br>MANUFACTURED BY WATTSTOPPER OR EQUAL. CABLING BETWEEN LOW VOLTAGE<br>DEVICES AND DIGITAL ROOM CONTROLLER SHALL BE CAT-5E CABLE WITH RJ45<br>CONNECTORS. E.C. SHALL MOUNT DIGITAL ROOM CONTROLLER SECURELY ABOVE   | С Ухх-1<br><sup>S</sup> M     | MOTOR<br>LOW VOLTAGE MOTORIZED BLIND CONTROLLER. DECOFLEX DRY CONTACT<br>KEYPAD SHALL BE ITEM #1811402 AS MANUFACTURED BY HUNTER DOUGLAS.   |
|                    | DROP CEILING IN ACCESSIBLE SPACE. ROOM CONTROLLER'S CONTROLLING<br>LIGHTING FED FROM EMERGENCY CIRCUITS SHALL BE PROVIDED WITH AN<br>EMERGENCY BYPASS CONTROLLER. EMERGENCY BYPASS CONTROLLER SHALL BE<br>MANUFACTURED BY WATTSTOPPER, MODEL ELCU-200. E.C. SHALL PROVIDE (1) ONE<br>DIGITAL WIRELESS CONFIGURATION TOOL AS MANUFACTURED BY WATTSTOPPER,<br>MODEL LMCT-100. THE DIGITAL CONFIGURATION TOOL SHALL BE USED TO<br>PROGRAM THE DIGITAL ROOM CONTROLLERS.   | <sup>\$</sup> м               | SINGLE-POLE OR TWO-POLE (AS REQUIRED), 250V AC, 1 HP RATED, TOGGLE TYPE<br>MANUAL MOTOR STARTED UNIT WITH MELTING ALLOY TYPE THERMAL OVERLOAD<br>RELAY, APPROPRIATELY SIZED THERMAL UNITS, NEMA TYPE 1 OR 4 (AS<br>REQUIRED) ENCLOSURE, AND HANDLE GUARD/LOCK-OFF. SQUARE D CLASS 2510<br>FG OR FW TYPES (AS REQUIRED) OR APPROVED EQUAL. THREE-POLE, 250V AC, 1<br>OR 2 HP RATED (AS REQUIRED), TOGGLE TYPE MANUAL MOTOR STARTER UNIT<br>WITH MELTING ALLOY TYPE THERMAL OVERLOAD RELAY, APPROPRIATELY SIZED<br>THERMAL UNITS, NEMA TYPE 1 ENCLOSURE AND HANDLE GUARD/LOCK-OFF.<br>SQUARE D CLASS 2510 K TYPE OR APPROVED EQUAL. |
| D RCD2             | 20A, 120V AC, 60HZ, ON/OFF/0-10V DIMMING DIGITAL ROOM CONTROLLER, DUAL<br>RELAY, UL LISTED, U.O.N. SWITCH SHALL BE MODEL NUMBER LMRC-212 AS<br>MANUFACTURED BY WATTSTOPPER OR EQUAL. CABLING BETWEEN LOW VOLTAGE<br>DEVICES AND DIGITAL ROOM CONTROLLER SHALL BE CAT-5E CABLE WITH RJ45<br>CONNECTORS. E.C. SHALL MOUNT DIGITAL ROOM CONTROLLER SECURELY ABOVE<br>DROP CEILING IN ACCESSIBLE SPACE. ROOM CONTROLLER'S CONTROLLING<br>LIGHTING FED FROM EMERGENCY CIRCUITS SHALL BE PROVIDED WITH AN<br>EMERGENCY BYPASS CONTROLLER. EMERGENCY BYPASS CONTROLLER SHALL BE | ₩AS<br>#AF<br>NEMA#           | FUSIBLE SWITCH TYPE COMBINATION STARTER UNIT WITH DOOR MOUNTED H-O-A<br>SWITCH AND RED "MOTOR RUNNING" LED TYPE PILOT LIGHT. PROVIDE AUXILIARY<br>CONTACT. "NEMA #" IDENTIFIES NEMA ENCLOSURE TYPE. "#A" IDENTIFIES<br>DISCONNECT SWITCH AMPACITY RATING. "#AF", IF PRESENT, IDENTIFIES<br>APPROXIMATE FUSE RATING. UNLESS OTHERWISE NOTED, ALL FUSIBLE<br>DISCONNECT SWITCHES SHALL BE COMPLETE WITH APPROPRIATELY SIZED DE,<br>TD, CL, CLASS RK5 FUSES.   |
|                    | MANUFACTURED BY WATTSTOPPER, MODEL ELCU-200. E.C. SHALL PROVIDE (1)<br>ONE DIGITAL WIRELESS CONFIGURATION TOOL AS MANUFACTURED BY<br>WATTSTOPPER, MODEL LMCT-100. THE DIGITAL CONFIGURATION TOOL SHALL BE  | ₫ #as<br>Nema#                | NON-FUSIBLE DISCONNECT SWITCH. "#A" IDENTIFIES DISCONNECT SWITCH<br>AMPACITY RATING. "NEMA #" IDENTIFIES NEMA ENCLOSURE TYPE.   |
| RCD3               | USED TO PROGRAM THE DIGITAL ROOM CONTROLLERS.<br>20A, 120V AC, 60HZ, ON/OFF/0-10V DIMMING DIGITAL ROOM CONTROLLER, TRIPLE<br>RELAY, UL LISTED, U.O.N. SWITCH SHALL BE MODEL NUMBER LMRC-213 AS<br>MANUFACTURED BY WATTSTOPPER OR EQUAL. CABLING BETWEEN LOW VOLTAGE<br>DEVICES AND DIGITAL POOM CONTROLL DE SHALL BE CAT FE CALE WITH DIAS   | I #AS<br>#AF<br>NEMA#<br>O FB | FUSIBLE DISCONNECT SWITCH. "#A" IDENTIFIES DISCONNECT SWITCH AMPACITY<br>RATING. #AF IDENTIFIES DISCONNECT FUSE SIZE. "NEMA #" IDENTIFIES NEMA<br>ENCLOSURE TYPE.<br>RECESSED CONCRETE FLOORBOX SYSTEM. MODEL #FBI44 AS MANUFACTURED<br>BY LEVITON. FLOORBOX CONSISTS OF (4) NEMA 5-20R RECEPTACLES AND (4) DATA  |
|                    | DEVICES AND DIGITAL ROOM CONTROLLER SHALL BE CAT-5E CABLE WITH RJ45<br>CONNECTORS. E.C. SHALL MOUNT DIGITAL ROOM CONTROLLER SECURELY ABOVE<br>DROP CEILING IN ACCESSIBLE SPACE. ROOM CONTROLLER'S CONTROLLING<br>LIGHTING FED FROM EMERGENCY CIRCUITS SHALL BE PROVIDED WITH AN<br>EMERGENCY BYPASS CONTROLLER. EMERGENCY BYPASS CONTROLLER SHALL<br>BE MANUFACTURED BY WATTSTOPPER, MODEL ELCU-200. E.C. SHALL PROVIDE (1)  | O FF                          | PORTS.<br>RECESSED CONCRETE FLOORBOX SYSTEM FOR FURNITURE POWER FEED.<br>FLOORBOX MODEL #RPSFB AS MANUFACTURED BY LEGRAND. FLOORBOX WILL<br>PROVIDE ROUTING FOR FURNITURE FEED INTERCONNECTION INTO POWERED<br>FURNITURE SYSTEM.  |
|                    | ONE DIGITAL WIRELESS CONFIGURATION TOOL AS MANUFACTURED BY<br>WATTSTOPPER, MODEL LMCT-100. THE DIGITAL CONFIGURATION TOOL SHALL BE<br>USED TO PROGRAM THE DIGITAL ROOM CONTROLLERS. WP = WATERPROOF<br>PROTECTIVE COVER.   | WM                            | 4" WIDE STAINLESS STEEL RACEWAY, 20A-120V DUPLEX RECEPTACLE @ EVERY 36"<br>O.C. RACEWAY SHALL BE #DS4000 AS MANUFACTURED BY WIREMOLD LEGRANDE.<br>PROVIDE RACEWAY WIRE DIVIDER FOR COMMUNICATIONS INSTALLATIONS WHERE<br>SHOWN ON DRAWINGS.   |

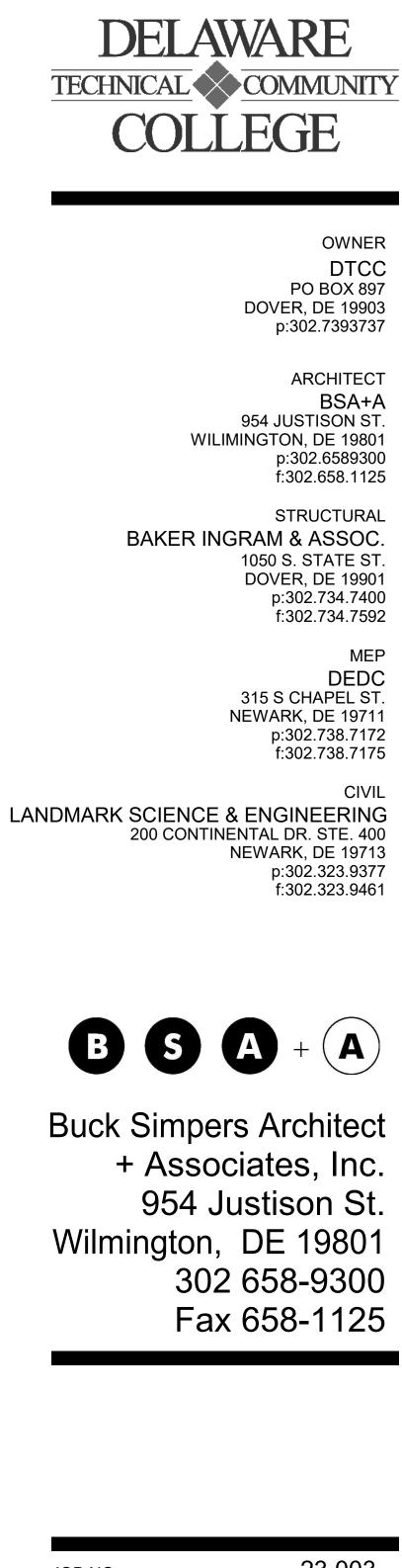
| ESCRIPTION   | <u>SYMBOL</u>   |
|--|---|
| US DUCT WITH PLUG IN DISCONNECT (FUSED)<br>ELAY  | ES  |
| NCLOSED CIRCUIT BREAKER<br>RESSURE SWITCH  | ĭ<br>⊢⊖   |
| LOAT SWITCH  | -R<br>DC  |
| HOTOCELL<br>IME CLOCK. AS SHOWN ON WIRING DIAGRAMS   |   |
| ELEPHONE OUTLET CONSISTING OF ONE 4 PORT COVERPLATE, 4" SQUARE BOX,<br>EVICE PLATE, TILE RING (DEPTH AS REQUIRED), (1) 1-1/4" CONDUIT STUBBED UP   |   |
| ITO THE NEAREST ACCESSIBLE CEILING, POTS LINE TERMINATED AT DEVICE<br>UTLET AND RAN BACK TO DEMARC BACKBOARD. MOUNTING HEIGHT=18" AFF  |   |
| O THE CENTER OF DEVICE BOX UNLESS OTHERWISE NOTED. CITY TO FURNISH<br>ND INSTALL HEAD-END EQUIPMENT AND TERMINATIONS AT HEAD-END   |   |
| QUIPMENT.<br>OMBINATION VOICE/DATA OUTLET CONSISTING OF ONE 4 PORT COVERPLATE, 4"  |   |
| QUARE BOX, TILE RING (DEPTH AS REQUIRED), 1-1/4" CONDUIT STUBBED UP<br>ITO THE NEAREST EASILY ACCESSIBLE CEILING SPACE AND CAT-6A CABLE  | ⊢SE   |
| ERMINATED ON WIRING DEVICE AND INSTALLED BACK TO I.T. ROOM WITH 10'<br>LACK COILED UP IN ROOM. MOUNTING HEIGHT=18" AFF TO THE CENTER OF  |   |
| EVICE BOX UNLESS OTHERWISE NOTED. E.C. SHALL FURNISH AND INSTALL<br>/IRING DEVICES, DEVICE PLATES, AND WIRE TERMINATED ON WIRING DEVICE.   |   |
|  |   |
| OMBINATION VOICE/DATA OUTLET CONSISTING OF ONE 4 PORT COVERPLATE,<br>URFACE MOUNTED 4" SQUARE BOX, TILE RING (DEPTH AS REQUIRED), 1-1/4"   |   |
| ONDUIT STUBBED UP INTO THE NEAREST EASILY ACCESSIBLE CEILING SPACE<br>ND CAT-6A CABLE TERMINATED ON WIRING DEVICE AND INSTALLED BACK TO  | ⊢●  |
| T. ROOM WITH 10' SLACK COILED UP IN ROOM. MOUNTING HEIGHT=18" AFF TO<br>HE CENTER OF DEVICE BOX UNLESS OTHERWISE NOTED. E.C. SHALL FURNISH<br>ND INSTALL WIRING DEVICES, DEVICE PLATES, AND WIRE TERMINATED ON |   |
| IRING DEVICE.  |   |
|  | H <u>@</u> -►<br>MD                                   |
| IRELESS ACCESS POINT CONSISTING OF JUNCTION BOX, TILE RING AND CAT-6A<br>IRE INSTALLED BACK TO I.T. ROOM WITH 10' SLACK COILED UP IN ROOM BY E.C.  | +ŵ<br>+ŵ  |
| ELEVISION OUTLET. PROVIDE 4" SQUARE DEVICE BOX, TILE RING (DEPTH AS  | +   |
| EQUIRED), STUB-UP 1 1/4" CONDUIT TO NEAREST ACCESSIBLE SPACE, AND RG-6<br>ABLE INSTALLED FROM DEMARC TO OUTLET. MOUNTING HEIGHT = 18" A.F.F. TO  | +@>~<br>+@>~  |
| ENTER OF DEVICE. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL<br>EVICES, DEVICE PLATES, AND COAX CABLE.  | +   |
| ORN TYPE SPEAKER   | HŽ<br>LO  |
| LERTING SYSTEM VISUAL FHA TROUBLE STROBE LIGHT. E.C. SHALL FURNISH<br>ND INSTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES, ALL   | WP  |
| IRE, TERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL<br>RAWING SET FOR SYSTEM SPECIFICATIONS.  |   |
| LERTING SYSTEM VISUAL FHA RED STROBE LIGHT. E.C. SHALL FURNISH AND<br>ISTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE,   |   |
| ERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING<br>ET FOR SYSTEM SPECIFICATIONS.  | WP  |
| LERTING SYSTEM CEILING MOUNTED 8" SPEAKER. E.C. SHALL FURNISH AND<br>ISTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE,  |   |
| ERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING<br>ET FOR SYSTEM SPECIFICATIONS.  |   |
| LERTING SYSTEM CEILING MOUNTED OMNI-DIRECTIONAL SPEAKER. E.C.<br>HALL FURNISH AND INSTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE  | 360<br>WP   |
| LATES, ALL WIRE, TERMINATIONS AND PROGRAMMING. REFER TO "AL"<br>RCHITECTURAL DRAWING SET FOR SYSTEM SPECIFICATIONS.  |   |
| LERTING SYSTEM CEILING MOUNTED BATHROOM SPEAKER. ALERTING SYSTEM<br>ED VISUAL STROBE LIGHT. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4"   | +@  |
| ONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE, TERMINATIONS AND<br>ROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM  | MS  |
| PECIFICATIONS.<br>LERTING SYSTEM CEILING MOUNTED 8" LED LIGHT/SPEAKER. ALERTING SYSTEM   |   |
| ED VISUAL STROBE LIGHT. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4"<br>ONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE, TERMINATIONS AND<br>ROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM    | +©<br>DS  |
| PECIFICATIONS.<br>LERTING SYSTEM WALL MOUNTED SPEAKER. E.C. SHALL FURNISH AND INSTALL  |   |
| BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE,<br>ERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING  |   |
| ET FOR SYSTEM SPECIFICATIONS.<br>LERTING SYSTEM EXTERIOR WALL RECESS MOUNTED SPEAKER WITH GRILL<br>UARD. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4" CONDUIT, WIRING  | (1)<br>X#   |
| EVICES, DEVICE PLATES, ALL WIRE, TERMINATIONS AND PROGRAMMING. REFER<br>0 "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM SPECIFICATIONS.  | ΛĦ  |
| LERTING SYSTEM WALL MOUNTED MEDICAL EMERGENCY BUTTON. E.C. SHALL   | ₽   |
| URNISH AND INSTALL J-BOXES, 3/4" CONDUIT, WIRING DEVICES, DEVICE PLATES,<br>LL WIRE, TERMINATIONS AND PROGRAMMING. REFER TO "AL" ARCHITECTURAL<br>RAWING SET FOR SYSTEM SPECIFICATIONS.                        | $ \begin{array}{c} \Phi \\ \Phi \\ \Phi \end{array} $ |
| LERTING SYSTEM 3 BUTTON ALERT SELECTOR. ALERTING SYSTEM RED VISUAL   | НШр   |
| TROBE LIGHT. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4" CONDUIT,<br>IRING DEVICES, DEVICE PLATES, ALL WIRE, TERMINATIONS AND   | H/<br>H=  |
| ROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM<br>PECIFICATIONS.<br>LERTING SYSTEM SPEAKER VOLUME CONTROL STATION. ALERTING SYSTEM   |   |
| ED VISUAL STROBE LIGHT. E.C. SHALL FURNISH AND INSTALL J-BOXES, 3/4"<br>ONDUIT, WIRING DEVICES, DEVICE PLATES, ALL WIRE, TERMINATIONS AND  | 2 2<br>R  |
| ROGRAMMING. REFER TO "AL" ARCHITECTURAL DRAWING SET FOR SYSTEM<br>PECIFICATIONS.   | ۲   |
| ICROPHONE OUTLET<br>NTENNA   | <u>(</u> )  |
| OWER POLE. PROVIDE FURNITURE FEED POWER POLE WITH DIVIDER. POWER<br>OLE SHALL BE VISTA COLUMN SERIES AS MANUFACTURED BY WIREMOLD   | Ô   |
| EGRAND OR APPROVED EQUAL.  | S<br>S  |
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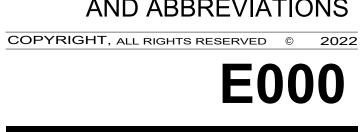


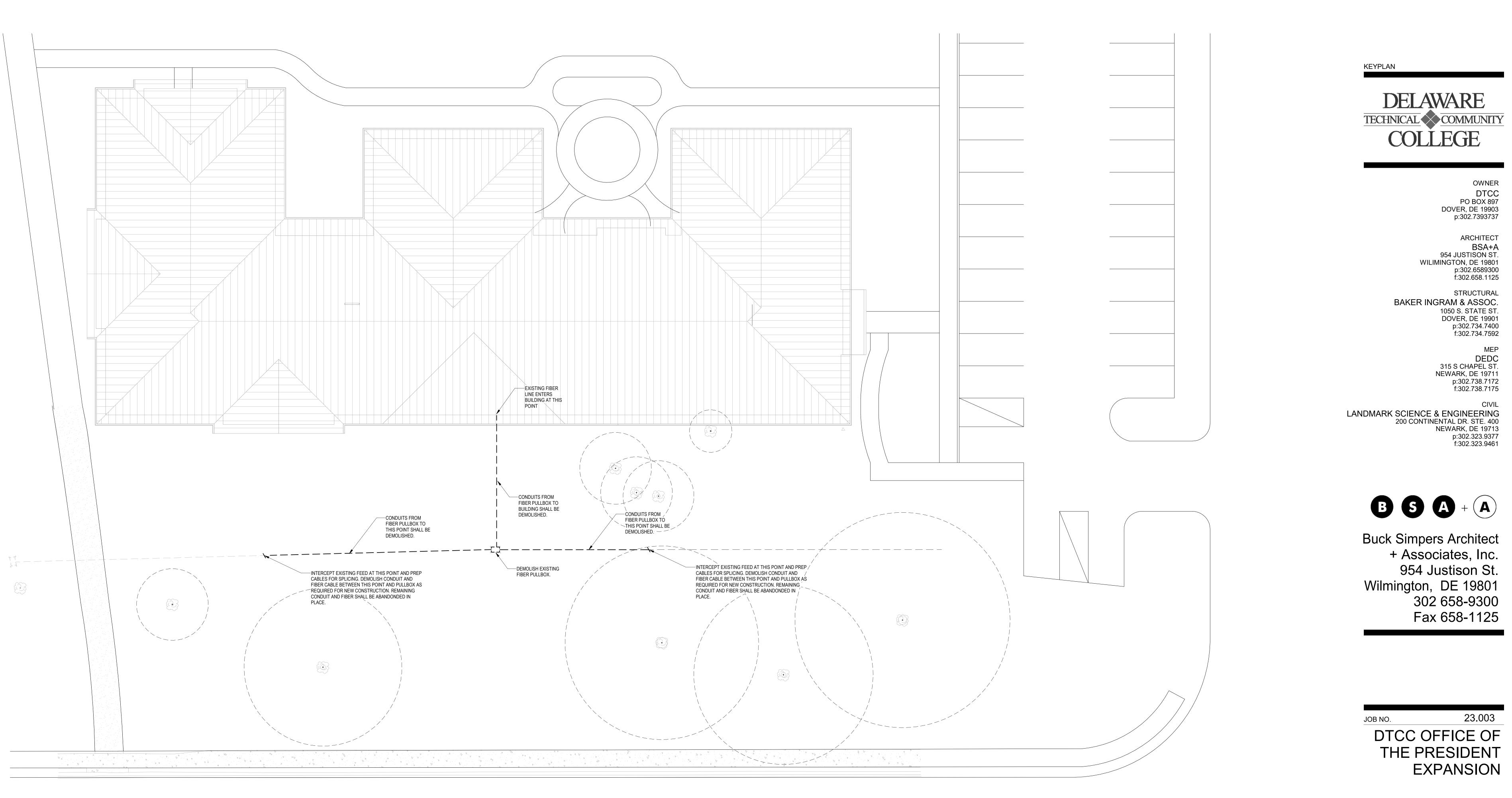
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KEYPLAN



23.003 JOB NO. DTCC OFFICE OF THE PRESIDENT EXPANSION ELECTRICAL SYMBOLS AND ABBREVIATIONS





1 ELECTRICAL-SITE DEMOLITION PLAN 3/32" = 1'-0"

**General Notes - Demolition** THESE DRAWINGS WERE CREATED BASED UPON EXISTING DRAWINGS AND OBSERVATIONS MADE IN FIELD. E.C. SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

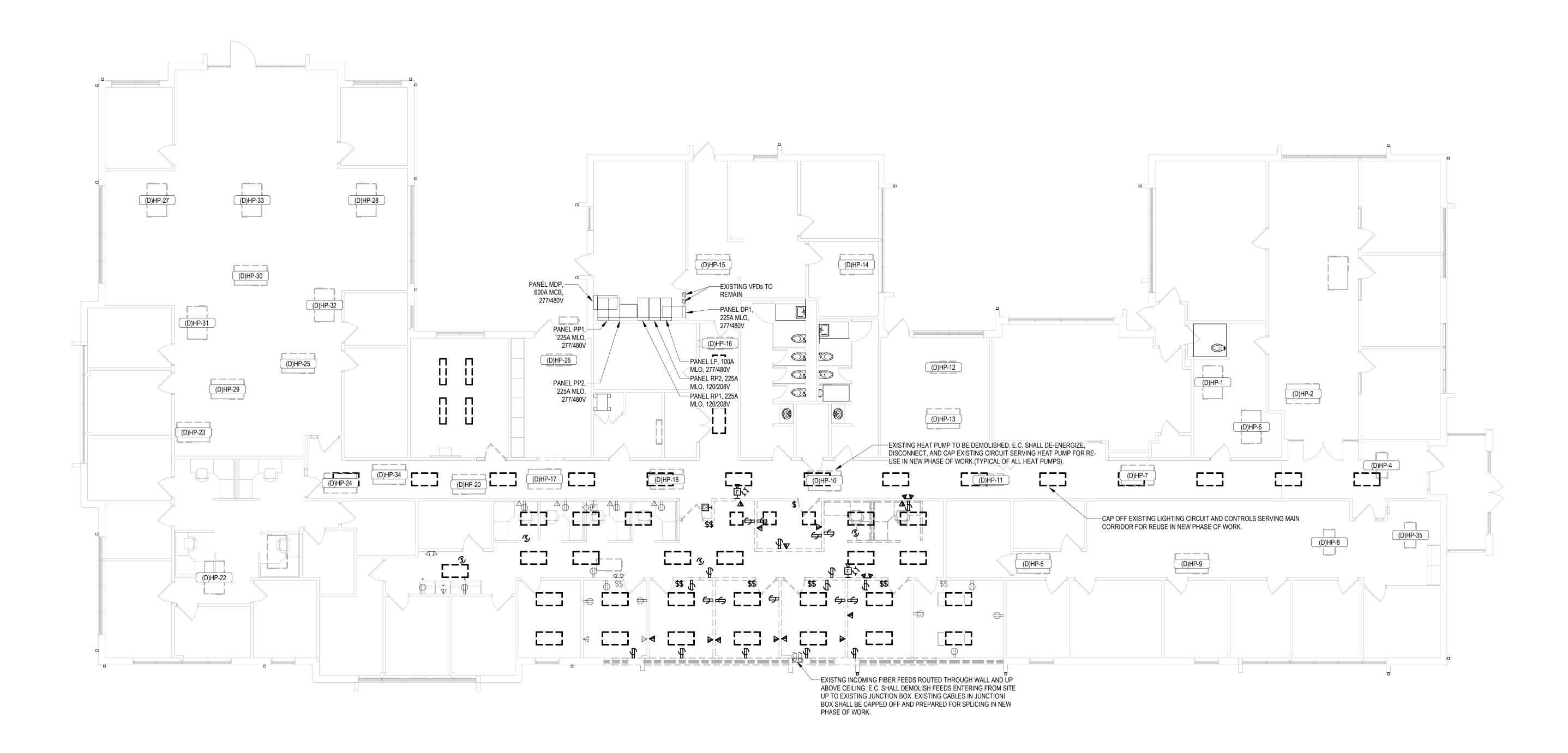
ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN. ITEMS SHOWN DARK AND DASHED ARE TO BE DEMOLISHED.

ELECTRICAL-SITE DEMOLITION PLAN

ED100

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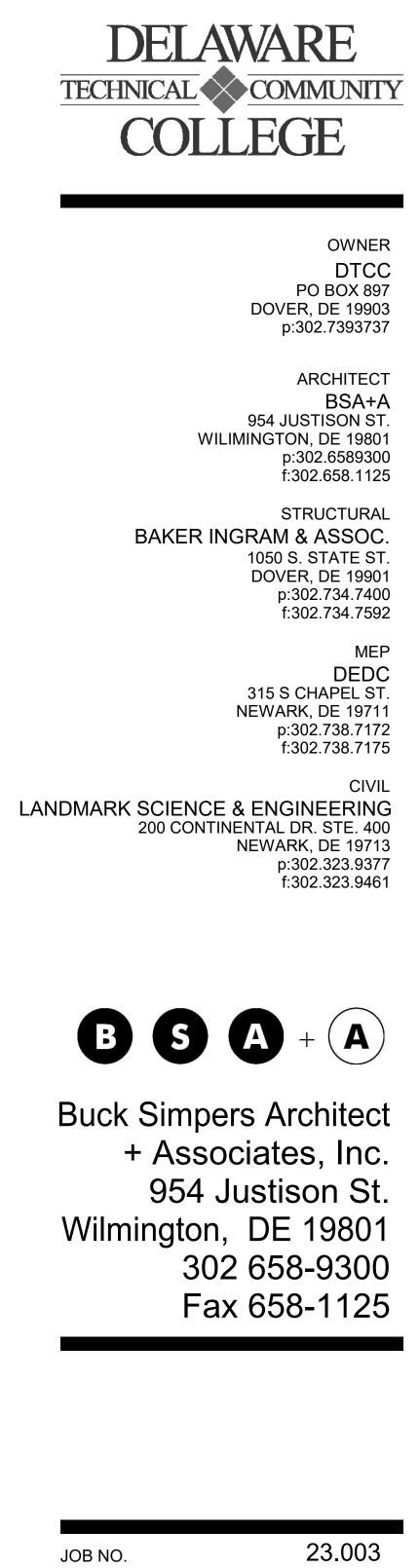


1 FIRST FLOOR DEMOLITION PLAN 1/8" = 1'-0"

|   | General Notes - Demolition   |
|---|--|
| 1 | THESE DRAWINGS WERE CREATED BASED UPON EXISTING<br>DRAWINGS AND OBSERVATIONS MADE IN FIELD. E.C. SHALL<br>VERIFY ALL EXISTING CONDITIONS PRIOR TO<br>COMMENCEMENT OF WORK. |
| 2 | SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR<br>PHASES OF DEMOLITION AND CONSTRUCTION.<br>COORDINATE WITH GENERAL CONSTRUCTION.                                       |
| 3 | ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN. ITEMS<br>SHOWN DARK AND DASHED ARE TO BE DEMOLISHED.   |

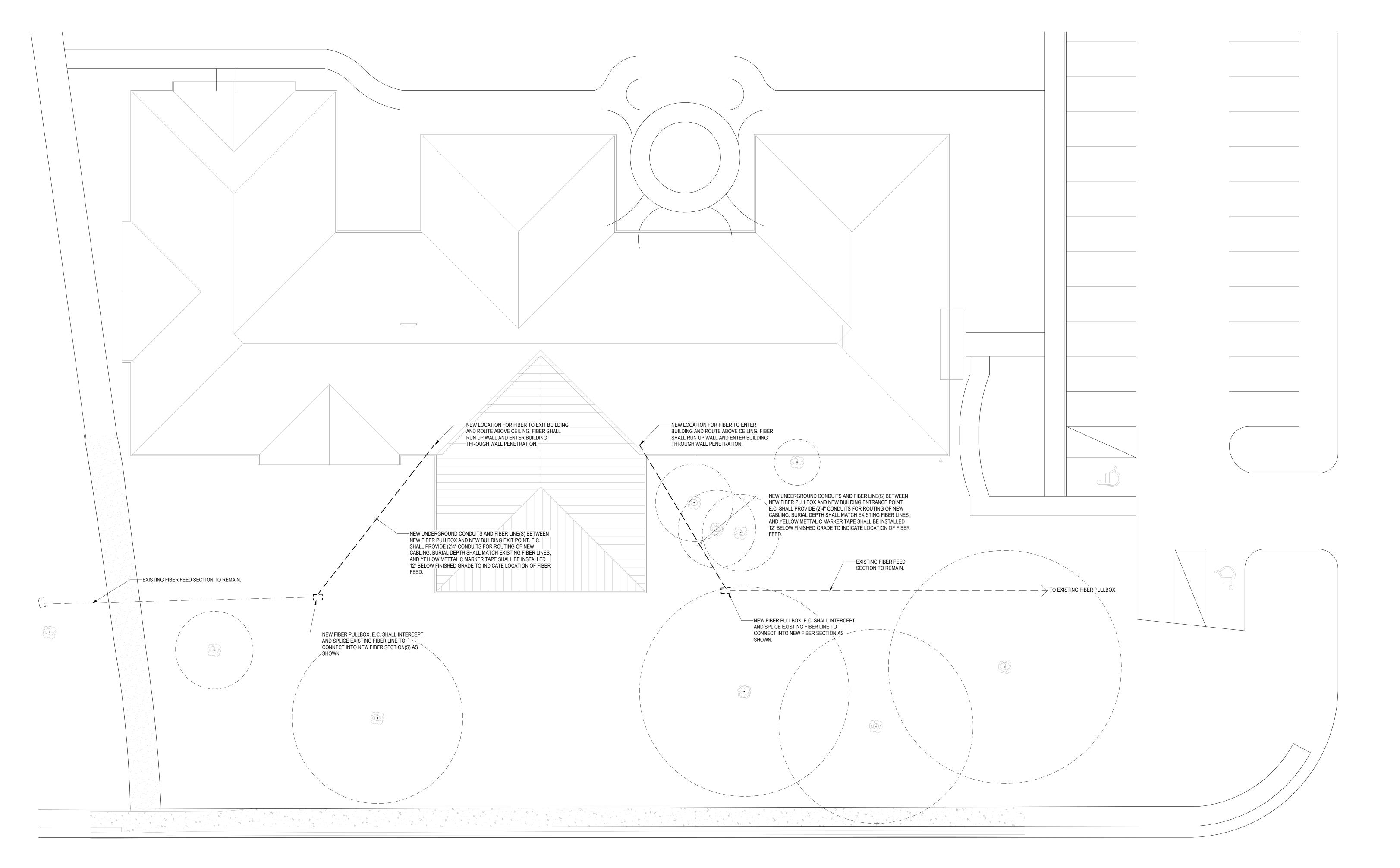
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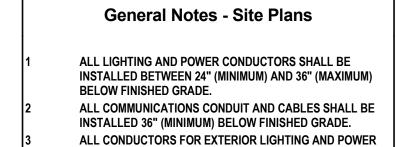


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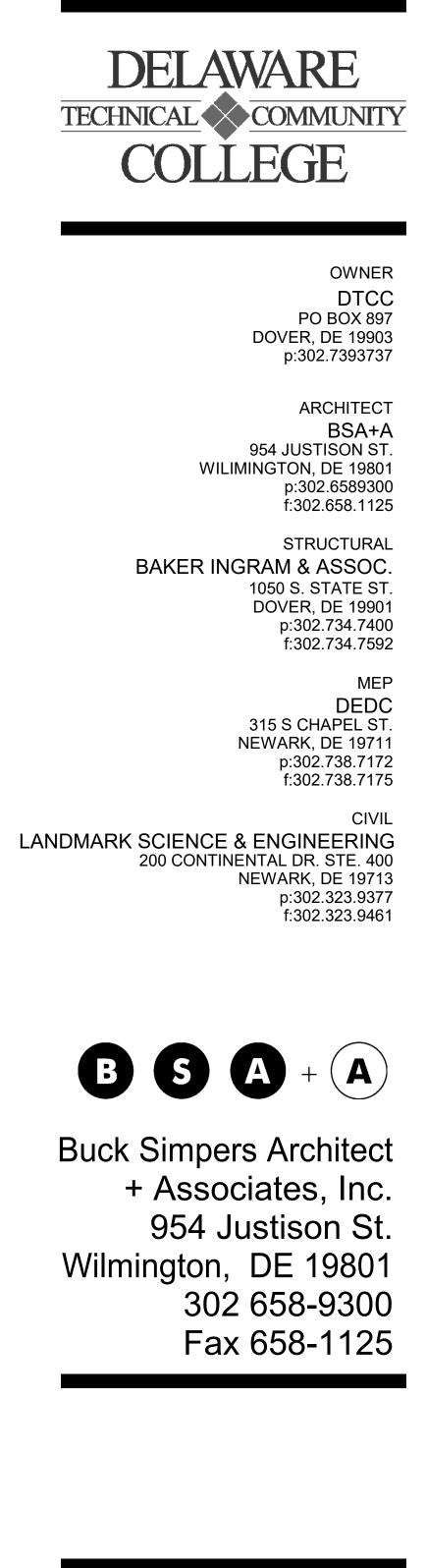
1 ELECTRICAL-SITE NEW WORK PLAN 3/32" = 1'-0"



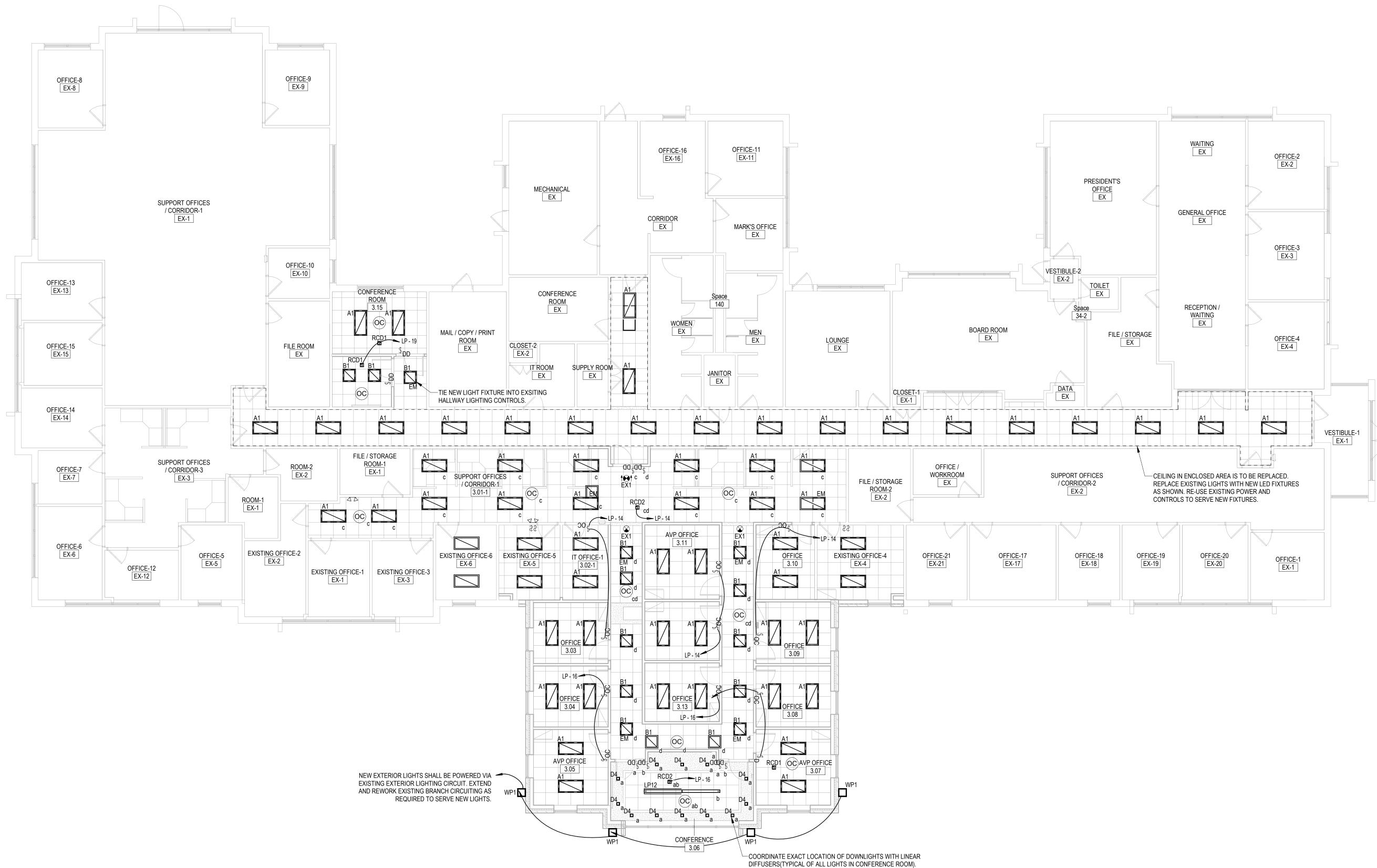
CIRCUITS SHALL BE #10 AWG MINIMUM.

| No.         Description         Date           1         ISSUED FOR BID         05/08/2025           -         -         -           -  |     |                |            |
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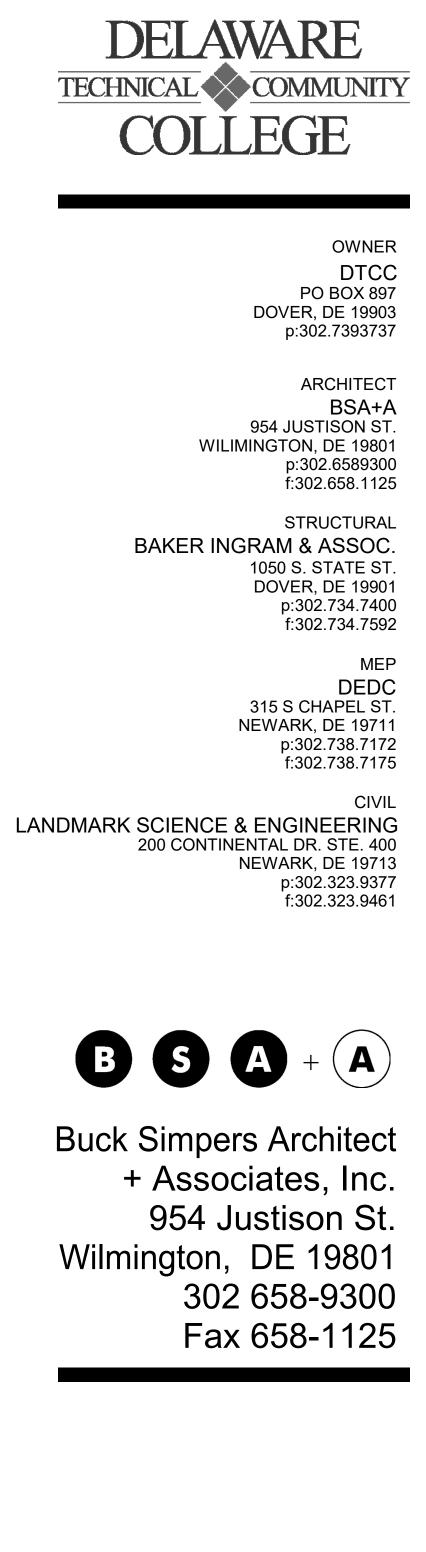
ELECTRICAL-LIGHTING NEW WORK PLAN 1/8" = 1'-0"

ALL INFORMATION SHOWN ON THESE DRAWINGS WAS GATHERED FROM EXISTING DOCUMENTATION OR ELD SURVEYS. E.C. SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

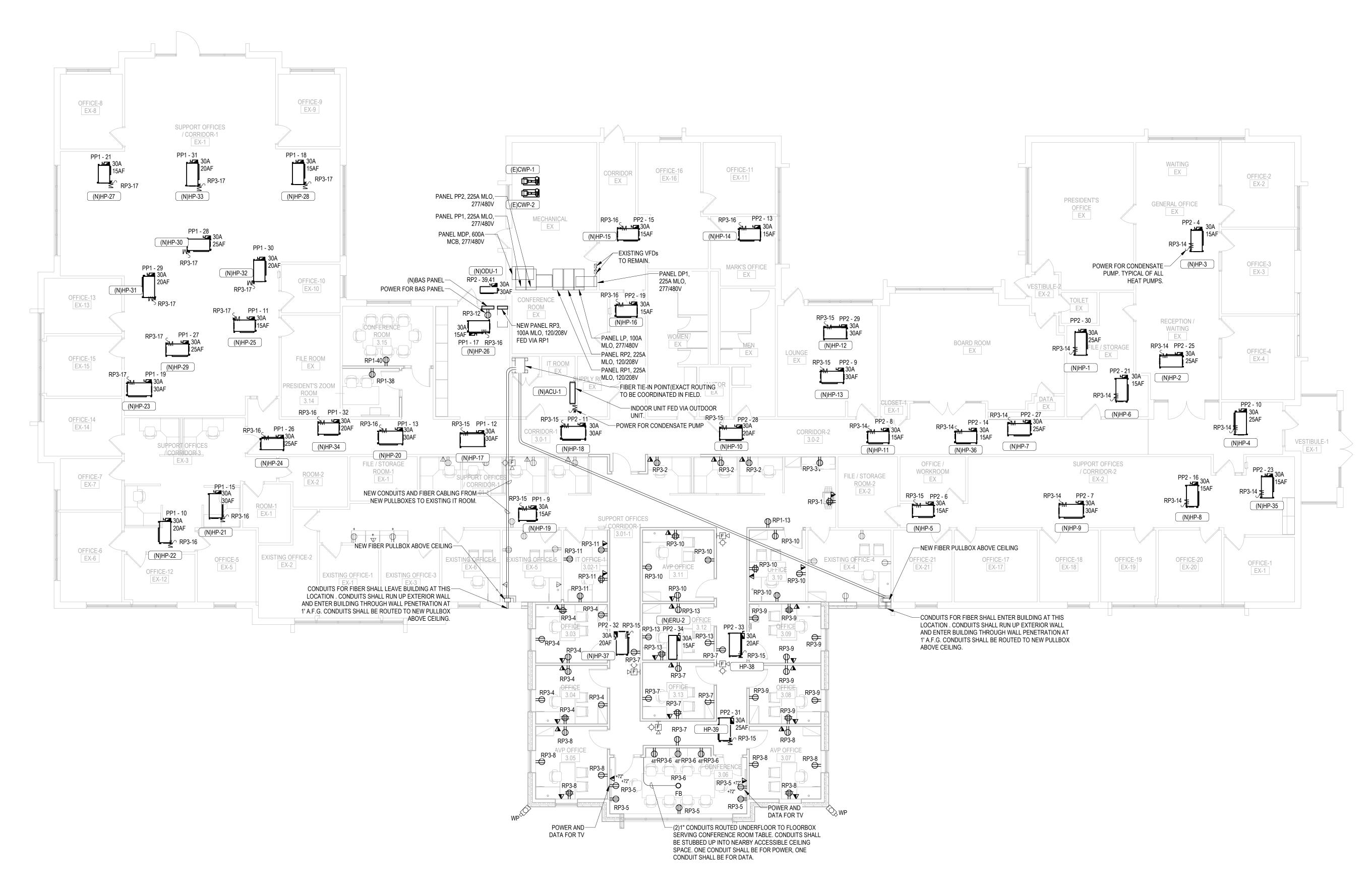
REFER TO DRAWING E000 FOR ELECTRICAL SYMBOLS AND LEGENDS.

| No.         Description         Date           1         ISSUED FOR BID         05/08/2025           -         -         -           -  |     |                |            |
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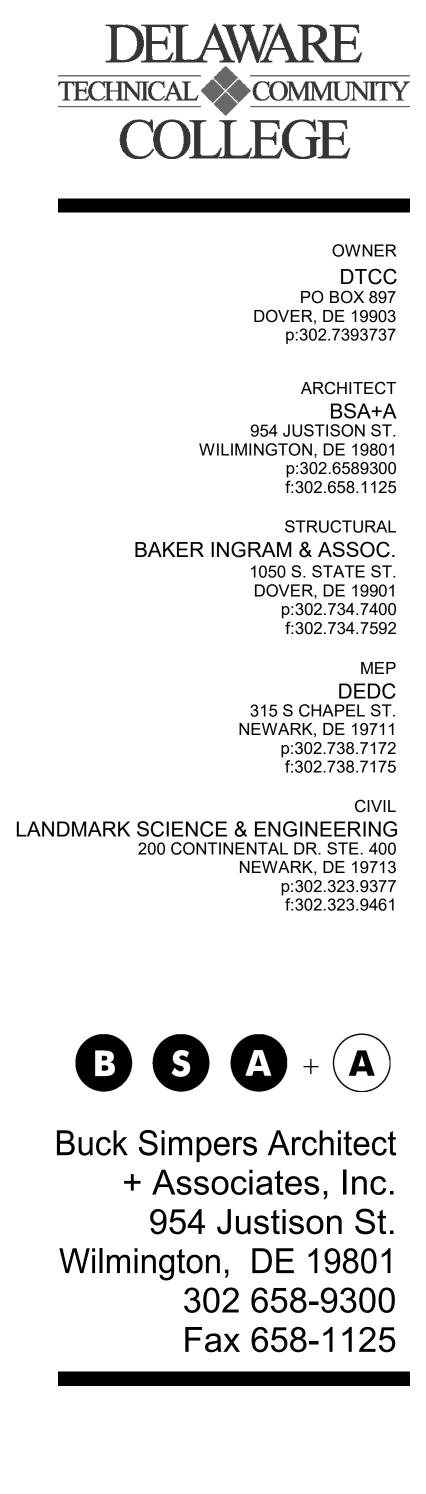
ELECTRICAL-POWER PLAN 1 1/8" = 1'-0"

**General Notes - Power** 

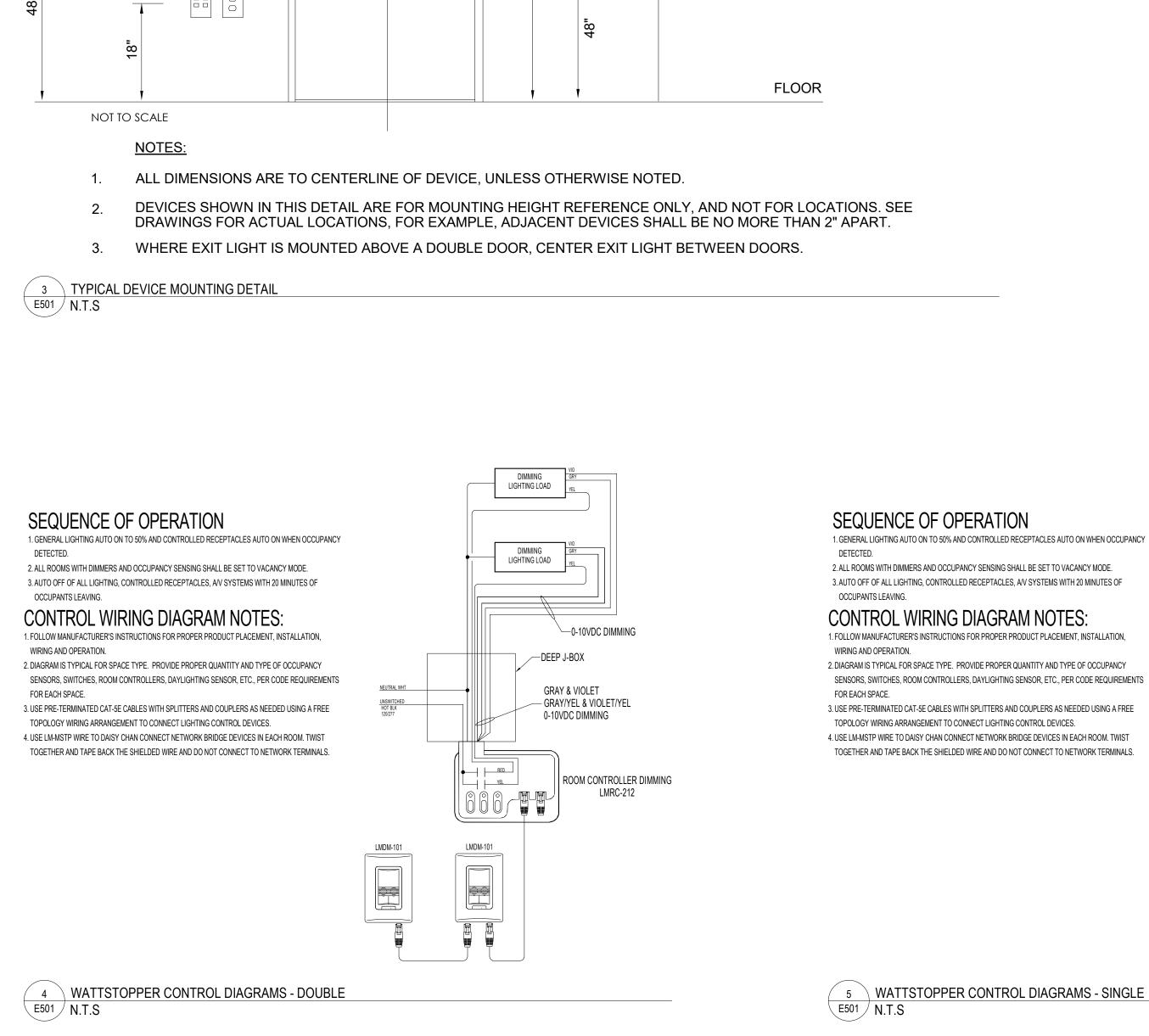
ADJUSTMENTS FOR VOLTAGE DROP.

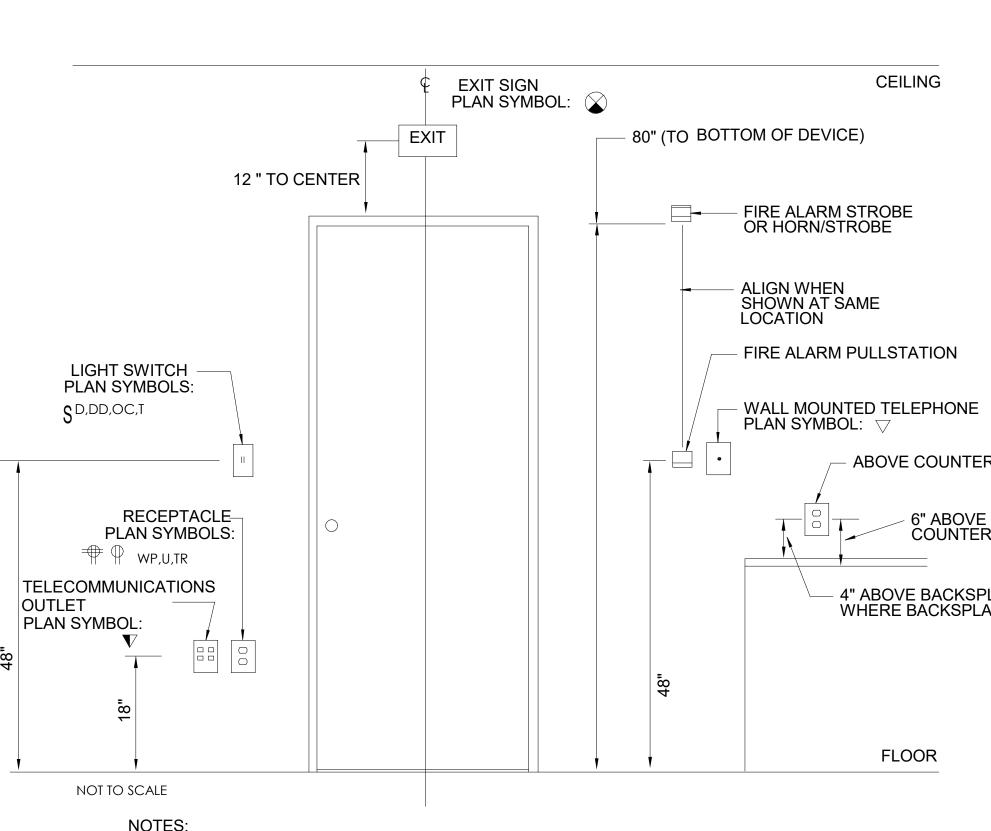
WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A. PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS. REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE

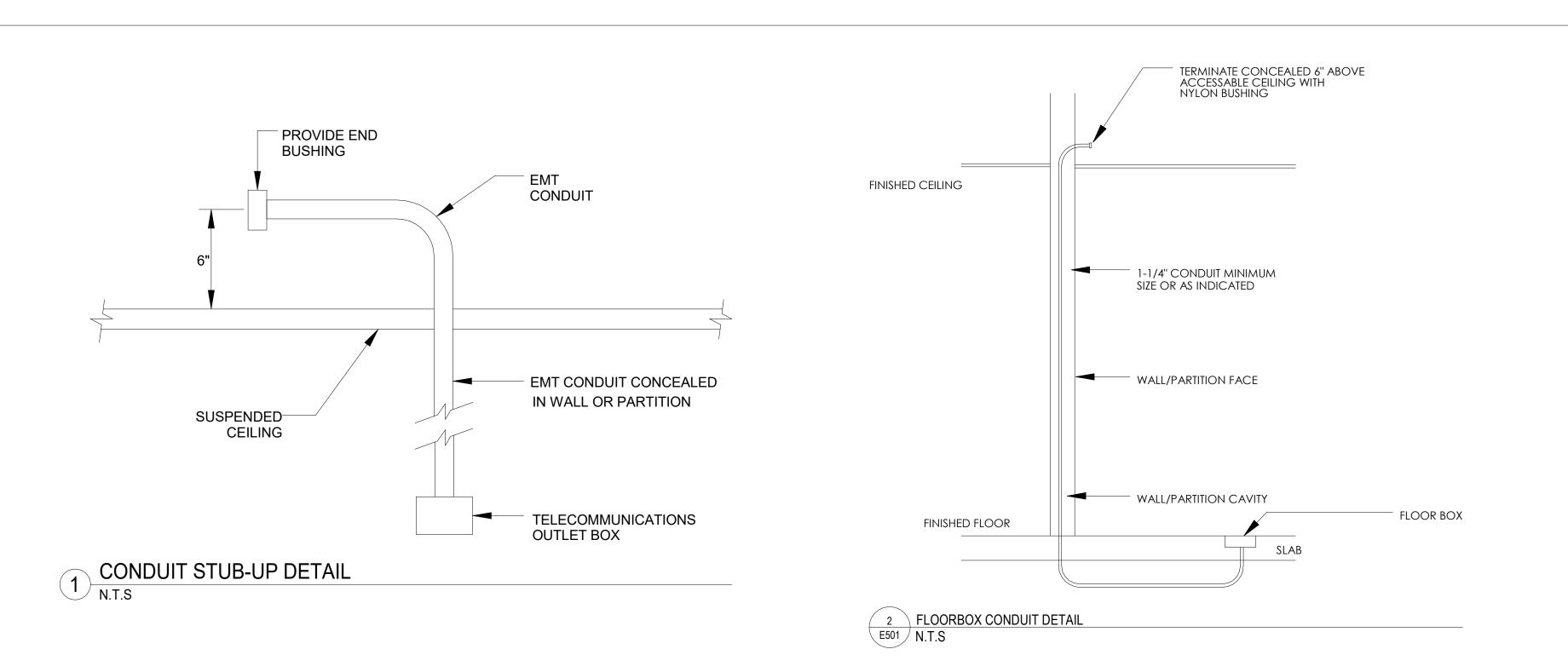
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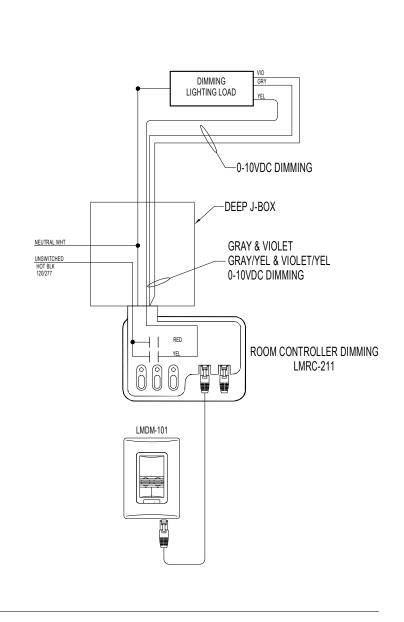












### SEQUENCE OF OPERATION 1. GENERAL LIGHTING AUTO ON TO 50% AND CONTROLLED RECEPTACLES AUTO ON WHEN OCCUPANCY

- DETECTED.
- 2. MANUAL ON/OFF/DIM GENERAL LIGHTING.

- 3. AUTO OFF OF ALL LIGHTING, CONTROLLED RECEPTACLES, A/V SYSTEMS WITH 20 MINUTES OF OCCUPANTS LEAVING.

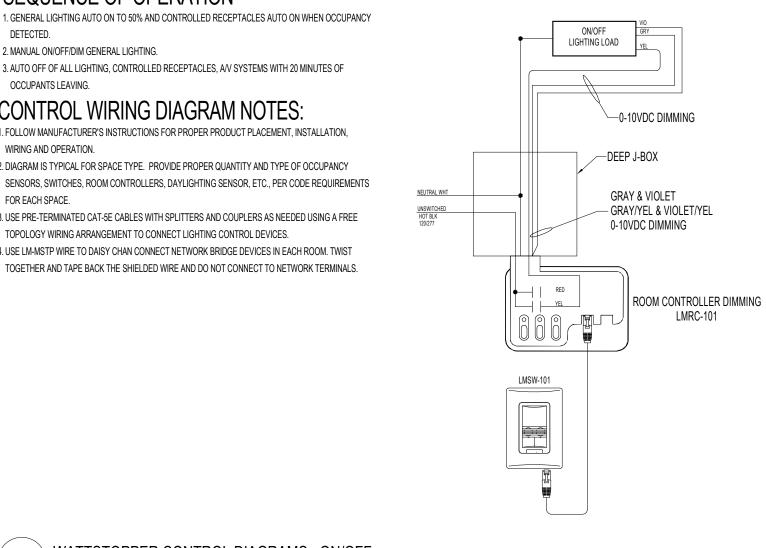
- CONTROL WIRING DIAGRAM NOTES:

- 1. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR PROPER PRODUCT PLACEMENT, INSTALLATION, WIRING AND OPERATION.
- 2. DIAGRAM IS TYPICAL FOR SPACE TYPE. PROVIDE PROPER QUANTITY AND TYPE OF OCCUPANCY
- SENSORS, SWITCHES, ROOM CONTROLLERS, DAYLIGHTING SENSOR, ETC., PER CODE REQUIREMENTS FOR EACH SPACE.
- 3. USE PRE-TERMINATED CAT-5E CABLES WITH SPLITTERS AND COUPLERS AS NEEDED USING A FREE
- TOPOLOGY WIRING ARRANGEMENT TO CONNECT LIGHTING CONTROL DEVICES. USE LM-MSTP WIRE TO DAISY CHAN CONNECT NETWORK BRIDGE DEVICES IN EACH ROOM. TWIS

# 4" ABOVE BACKSPLASH WHERE BACKSPLASH IS PRESENT

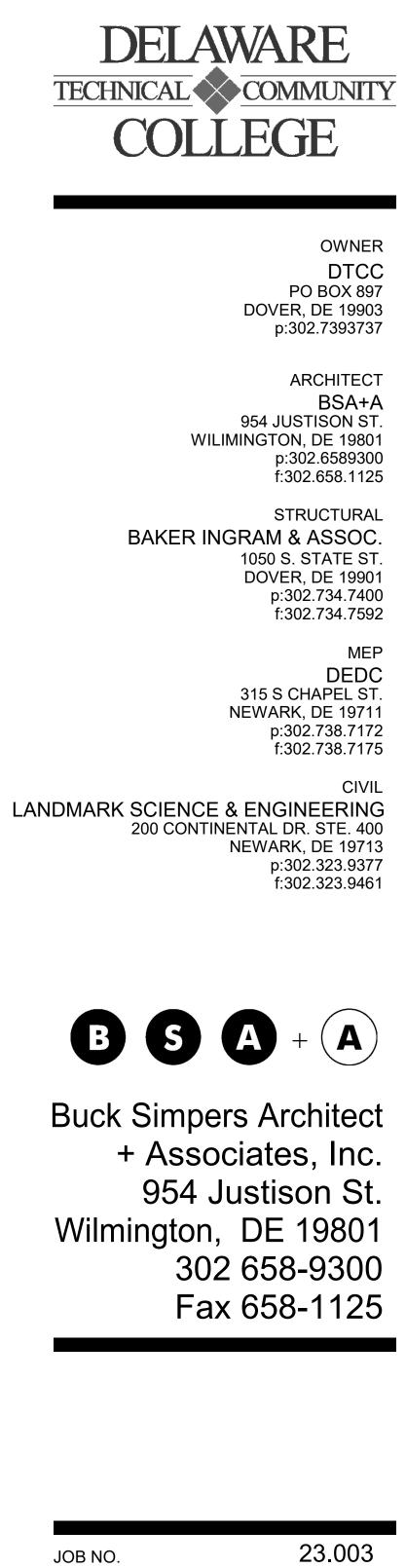
6" ABOVE FINISHED COUNTER

# - ABOVE COUNTER RECEPTACLE PLAN SYMBOL: $^+$



| No.         Description         Date           1         ISSUED FOR BID         05/08/2025           -         -         -           -  |     |                |            |
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| 1       ISSUED FOR BID       05/08/2025   | No. | Description    | Date       |
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DTCC OFFICE OF THE PRESIDENT EXPANSION ELECTRICAL DETAILS

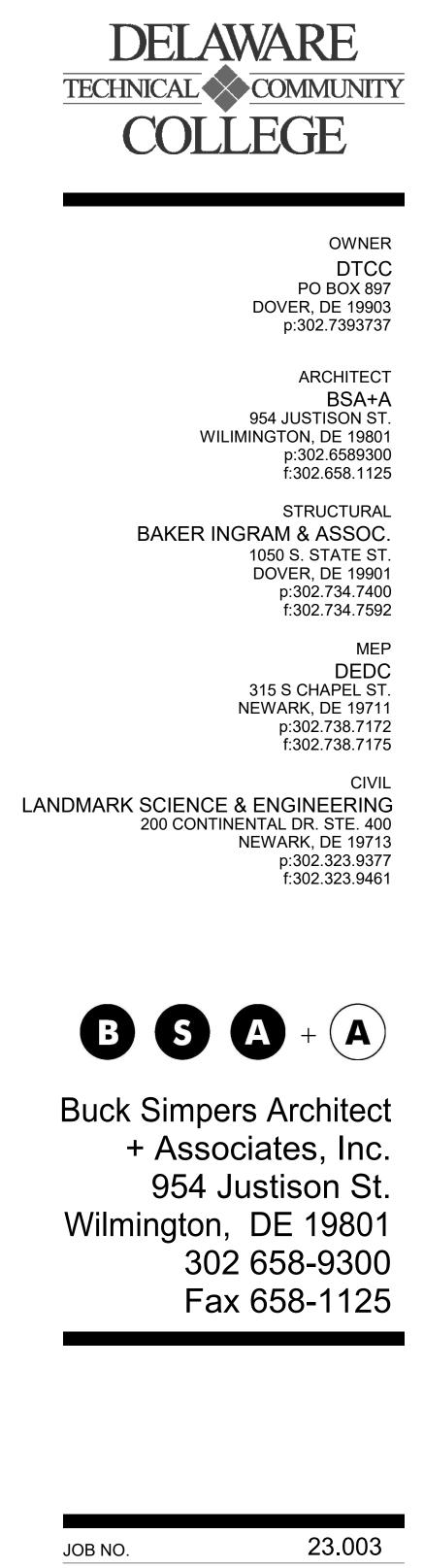


| EXI:  | STIN       | NG PANEL: PP1<br>Location: MECHANICAL 48<br>Supply From: MDP<br>Mounting: Surface<br>Enclosure: Indoor                      |                  |  |         |                  | Volts:<br>Phases:<br>Wires: |              |         |                   |       |                       |          |
|---|------------|---|------------------|--|---------|------------------|-----------------------------|--------------|---------|-------------------|-------|-----------------------|----------|
| *EXISTING BREAKER TO                                  |            | USED.<br>ZED AS INDICATED, IN EXISTING SPACE.   |                  |  | 1       |                  | 1                           |              | 1       |                   |       | 1                     |          |
|   |            |   |                  |  |         |                  |                             |              |         |                   |       |                       |          |
| Wire Size   | <b>CKT</b> | Circuit Description   | Trip             | Poles                                  | 0 VA    | <b>A</b><br>0 VA |                             | B            |         | C                 | Poles | <b>Trip</b><br>30.0 A | SP       |
|   | 3          | TVSS  | 30.0 A           | 3                                      | 0 1/1   | 0 1/1            | 0 VA                        | 0 VA         |         |                   | 1     | 15.0 A                |          |
|   | 5          |   |                  |  | 0.1/4   | 0.1/4            |                             |              | 0 VA    | 0 VA              | 1     | 15.0 A                | SP       |
| (2)#12 & (1)#12 GND                                   | 7<br>9     | SPARE<br>HP-19*   | 30.0 A<br>15.0 A | 1                                      | 0 VA    | 0 VA             | 2050 VA                     | 3656 VA      |         |                   | 1     | 15.0 A<br>20.0 A      | SP/      |
| (2)#12 & (1)#12 GND                                   | 11         | HP-25*  | 15.0 A           | 1                                      |         |                  | 2000 111                    |              | 3500 VA | 5400 VA           | 1     | 30.0 A                | HP       |
| (2)#10 & (1)#10 GND                                   | 13         | HP-20*  | 30.0 A           | 1                                      | 5400 VA | 0 VA             |                             |              |         |                   | 1     | 15.0 A                | SP       |
| (2)#10 & (1)#10 GND<br>(2)#12 & (1)#12 GND            | 15<br>17   | HP-21*<br>HP-26*  | 30.0 A<br>15.0 A | 1                                      |         |                  | 5400 VA                     | 0 VA         | 3500 VA | 3465 VA           | 1     | 15.0 A<br>20.0 A      | SP/      |
| (2)#10 & (1)#10 GND                                   | 19         | HP-23*  | 30.0 A           | 1                                      | 5400 VA | 0 VA             |                             |              | 3300 VA | 3403 VA           | 1     | 30.0 A                |          |
| (2)#12 & (1)#12 GND                                   | 21         | HP-27*  | 15.0 A           | 1                                      |         |                  | 2050 VA                     | 0 VA         |         |                   | 1     | 15.0 A                | SP       |
|   | 23         | SPARE   | 15.0 A<br>15.0 A | 1                                      | 0 VA    | 5125 VA          |                             |              | 0 VA    | 0 VA              | 1     | 15.0 A<br>25.0 A      | SP/      |
| (2)#10 & (1)#10 GND                                   | 25<br>27   | SPARE<br>HP-29**  | 25.0 A           | 1                                      | UVA     | 5125 VA          | 5250 VA                     | 5125 VA      |         |                   | 1     | 25.0 A<br>25.0 A      |          |
| (2)#12 & (1)#12 GND                                   | 29         | HP-31**   | 20.0 A           | 1                                      |         |                  |                             |              | 3656 VA | 3850 VA           | 1     | 20.0 A                | HP       |
| (2)#12 & (1)#12 GND                                   | 31         | HP-33**   | 20.0 A           | 1                                      | 3850 VA | 3660 VA          | -                           |              |         |                   | 1     | 20.0 A                | HP       |
|   | 33<br>35   | SPACE<br>SPACE  |                  | 1                                      |         |                  |                             |              |         |                   | 1     |                       | SP/      |
|   | 37         | SPACE   |                  | 1                                      |         |                  |                             |              |         |                   | 1     |                       | SP       |
|   | 39         | SPACE   |                  | 1                                      |         |                  |                             |              |         |                   | 1     |                       | SP       |
|   | 41         | SPACE   |                  | 1                                      |         |                  |                             |              |         |                   | 1     |                       | SP       |
|   | Legen      | d:  |                  | Total Load:<br><sup>·</sup> otal Amps: |         | 35 VA<br>.6 A    |                             | 31 VA<br>0 A |         | 71 VA<br>.4 A     |       |                       |          |
| Load Classification                                   |            |   | Co               | onnected Lo                            | oad     | D                | emand Fac                   | tor          | Est     | imated Den        | nand  |                       |          |
|   |            |   |                  |  |         |                  |                             |              |         |                   |       |                       |          |
| Notes:<br>*EXISTING BREAKER TO<br>**PROVIDE NEW BREAK |            | Supply From: 112.5 kVA, 277 V/48<br>Mounting: Surface<br>Enclosure: Indoor<br>USED.<br>ZED AS INDICATED, IN EXISTING SPACE. | 30 V, Three P    | 'hase, 4                               |         |                  | Phases:<br>Wires:           |              |         |                   |       |                       |          |
| Wire Size   | скт        | Circuit Description   | Trip             | Poles                                  |         | A                |                             | В            |         | С                 | Poles | Trip                  |          |
|   | 1          | CORRIDOR 112 OFFICE 119   | 20.0 A           | 1                                      | 0 VA    | 0 VA             | 0.1/4                       | 0.1/4        |         |                   | 1     | 20.0 A                |          |
|   | 3          | CORRIDOR 112<br>OFFICE 114,115,116  | 20.0 A<br>20.0 A | 1                                      |         |                  | 0 VA                        | 0 VA         | 0 VA    | 0 VA              | 1     | 20.0 A<br>20.0 A      |          |
|   | 7          | OFFICE 116,117,118  | 20.0 A           | 1                                      | 0 VA    | 0 VA             |                             |              |         |                   | 1     | 20.0 A                |          |
|   | 9          | OFFICE 118,121  | 20.0 A           | 1                                      |         |                  | 0 VA                        | 0 VA         | 0.1/1   | 0.1/1             | 1     | 20.0 A                |          |
| (2)#12 & (1)#12 GND                                   | 11         | SPARE REC-SUPPORT OFFICES*  | 20.0 A<br>20.0 A | 1                                      | 0 VA    | 0 VA             |                             |              | 0 VA    | 0 VA              | 1     | 20.0 A<br>20.0 A      | OF<br>OF |
|   | 15         | OFFICE 128,129,147  | 20.0 A           | 1                                      |         |                  | 0 VA                        | 0 VA         |         |                   | 1     | 20.0 A                | OF       |
|   | 17         | BRD RM 124 AV CLST FL BX  | 20.0 A           | 1                                      | 0.1/1   | 0.1/1            |                             |              | 0 VA    | 0 VA              | 1     | 20.0 A                |          |
|   | 19<br>21   | OFFICE 126 LOUNGE TV/COFFEE M<br>FILE STORAGE 109   | 20.0 A<br>20.0 A | 1                                      | 0 VA    | 0 VA             | 0 VA                        | 0 VA         |         |                   | 1     | 20.0 A<br>20.0 A      |          |
|   | 23         | RM 158,161  | 20.0 A           | 1                                      |         |                  |                             |              | 0 VA    | 0 VA              | 1     | 20.0 A                |          |
|   | 25         | CORRIDOR 111  | 20.0 A           | 1                                      | 0 VA    | 0 VA             |                             |              |         |                   | 1     | 20.0 A                | OF       |
|   | 27         | SPARE   | 20.0 A           | 1                                      |         |                  | 0 VA                        | 0 VA         | 0.1/4   | 0.1/4             | 1     | 20.0 A                |          |
|   | 29<br>31   | SPARE<br>WOMEN 128-HAND DRYER   | 20.0 A<br>20.0 A | 1                                      | 0 VA    | 0 VA             |                             |              | 0 VA    | 0 VA              | 1     | 20.0 A<br>20.0 A      |          |
|   | 33         | FILE STOR. 142 OFFICE 143   | 20.0 A           | 1                                      |         |                  | 0 VA                        | 0 VA         |         |                   | 1     | 20.0 A                |          |
|   | 35<br>37   | VEST 118 RECEP EXT GPS  | 20.0 A           | 1                                      | 660 VA  | 0 VA             |                             |              | 0 VA    | 0 VA              | 1     | 20.0 A<br>20.0 A      |          |
| (4)#3 & (1)#3 GND                                     | 39<br>41   | RP3**   | 100.0 A          | 3                                      |         |                  | 1200 VA                     | 0 VA         | 1260 VA |                   | 1     | 20.0 A                |          |
|   |            |   |                  | Total Load:<br>otal Amps:              |         | ) VA<br>5 A      |                             | 0 VA<br>.7 A | 126     | 0 VA<br>.2 A      |       |                       |          |
|   | Legen      | d:  |                  |  |         |                  |                             | _            |         |                   |       |                       |          |
| Load Classification                                   |            |   | Co               | onnected Lo                            | oad     | D                | emand Fac                   | tor          | Est     | imated Den        | nand  |                       |          |
| Motor<br>Other  |            |   |                  | 2400 VA<br>720 VA                      |         |                  | 100.63%<br>100.00%          |              |         | 2415 VA<br>720 VA |       |                       |          |
| RCPT  |            |   |                  | 0 VA                                   |         |                  | 0.00%                       |              |         | 720 VA<br>0 VA    |       |                       |          |
|   |            |   |                  |  |         |                  |                             |              |         |                   |       |                       |          |

| A.I.C. Rating: 65kA<br>Mains Type: MLO<br>Mains Rating: 225.0 A<br>MCB Rating: 225.0 A |                            |   | Notes:  |                            | PANEL: PP2<br>Location: MECHANICAL 48<br>Supply From: MDP<br>Mounting: Surface<br>Enclosure: Indoor                  |   |                       |                                | <b>Volts:</b> 480Y/277<br><b>Phases:</b> 3<br><b>Wires:</b> 4 |                 |                       |                       |  | A.I.C. Rating: 65kA<br>Mains Type: MLO<br>Mains Rating: 225.0 A<br>MCB Rating: 250.0 A                 |                                  |   |
|--|----------------------------|---|---|----------------------------|--|---|-----------------------|--------------------------------|---|-----------------|-----------------------|-----------------------|--|--|----------------------------------|---|
|  |                            |   | *EXISTING BREAKER TO  |                            | USED.<br>ED AS INDICATED, IN EXISTING SPACE.   |   |                       |                                |   |                 |                       |                       |  |  |                                  |   |
| <b>Circuit Description</b><br>SPARE<br>SPARE   | <b>CKT</b><br>2<br>4       | Wire Size   | Wire Size   | СКТ<br>1<br>3              | Circuit Description  | <b>Trip</b><br>30.0 A                                   | Poles<br>3            | A<br>0 VA 0 VA                 | B<br>0 VA 3500 VA   |                 | C                     | Poles                 | <b>Trip</b><br>30.0 A<br>15.0 A                |  | СКТ<br>2<br>4                    | Wire Size<br>(2)#12 & (1)#12 GNE                                  |
| SPARE<br>SPARE<br><b>IP-22</b> *<br>IP-17*   | 6<br>8<br>10<br>12         | (2)#12 & (1)#12 GND<br>(2)#10 & (1)#10 GND                        | (2)#10 & (1)#10 GND<br>(2)#10 & (1)#10 GND<br>(2)#10 & (1)#10 GND   | 9<br>11                    | HP-9*<br>HP-13*<br>HP-18*  | 30.0 A<br>30.0 A<br>30.0 A                              | 1<br>1<br>1<br>1      | 5400 VA 3500 V                 | /A 5400 VA 3850 VA  | 0 VA<br>5400 VA | 3500 VA               | 1<br>1<br>1<br>1      | 15.0 A<br>15.0 A<br>25.0 A<br>30.0 A           | HP-11*<br>HP-4*<br>SPARE   | 6<br>8<br>10<br>12               | (2)#12 & (1)#12 GNE<br>(2)#12 & (1)#12 GNE<br>(2)#12 & (1)#12 GNE |
| PARE<br>PARE<br><b>P-28</b> *<br>PARE  | 14<br>16<br>18<br>20       | (2)#12 & (1)#12 GND   | (2)#12 & (1)#12 GND<br>(2)#12 & (1)#12 GND<br>(2)#12 & (1)#12 GND   | 15<br>17                   | HP-14*<br>HP-15*<br>SPARE<br>HP-16*  | 15.0 A<br>15.0 A<br>30.0 A<br>15.0 A                    | 1<br>1<br>1<br>1      | 3500 VA 3500 V<br>3500 VA 0 VA | 3500 VA 2049 VA   | 0 VA            | 0 VA                  | 1<br>1<br>1<br>1      | 15.0 A<br>15.0 A<br>15.0 A<br>30.0 A           | HP-8*<br>SPARE   | 14<br>16<br>18<br>20             | (2)#12 & (1)#12 GNE<br>(2)#12 & (1)#12 GNE                        |
| PARE<br>PARE<br>P-24**<br>P-30**<br>P-32**   | 22<br>24<br>26<br>28<br>30 | (2)#10 & (1)#10 GND<br>(2)#10 & (1)#10 GND<br>(2)#12 & (1)#12 GND | (2)#12 & (1)#12 GND<br>(2)#12 & (1)#12 GND<br>(2)#10 & (1)#10 GND<br>(2)#10 & (1)#10 GND<br>(2)#10 & (1)#10 GND | 23<br>25<br>27<br>29       | HP-6*<br>HP-35**<br>HP-2**<br>HP-7**<br>HP-12**  | 15.0 A<br>20.0 A<br>25.0 A<br>25.0 A<br>30.0 A          | 1<br>1<br>1<br>1<br>1 | 5125 VA 0 VA                   | 5125 VA 5125 VA   |                 | 0 VA<br>5125 VA       | 1<br>1<br>1<br>1<br>1 | <br>15.0 A<br>15.0 A<br>20.0 A<br>25.0 A       | SPACE<br>SPARE<br>SPARE<br><b>HP-10**</b><br><b>HP-1*</b>  | 22<br>24<br>26<br>28<br>30       | (2)#10 & (1)#10 GNE<br>(2)#10 & (1)#10 GNE                        |
| P-34** PACE PACE PACE PACE PACE  | 32<br>34<br>36<br>38<br>40 | (2)#12 & (1)#12 GND   | (2)#10 & (1)#10 GND<br>(2)#12 & (1)#12 GND  | 33<br>35<br>37             | HP-39**<br>HP-38**<br>SPARE<br>SPARE<br>SPARE  | 25.0 A<br>20.0 A<br>20.0 A<br>20.0 A<br>20.0 A          | 1<br>1<br>1<br>1      | 5125 VA 3850 V<br>0 VA 0 VA    | 3850 VA 0 VA  | 0 VA            | 0 VA                  | 1<br>1<br>1<br>1<br>1 | 20.0 A<br>15.0 A<br>20.0 A<br>20.0 A<br>20.0 A | ERU-2**<br>SPARE<br>SPARE  | 32<br>34<br>36<br>38<br>40       | (2)#12 & (1)#12 GNE<br>(2)#12 & (1)#12 GNE                        |
| PACE   | 40                         |   |   |                            | SPARE  | 20.0 A  | 1<br>Total Load       |                                | 36055 VA<br>136.2 A   |                 | 0 VA<br>50 VA<br>.8 A | 1                     | 20.0 A<br>20.0 A                               |  | 40                               |   |
| Panel Totals   |                            |   | Load Classification   | Legen                      | J.   | Co  | onnected L            | oad                            | Demand Factor   | Est             | imated Dem            | nand                  |  | Panel To   | tals                             |   |
| Total Conn. Load: 0 VA<br>Total Est. Demand: 0 VA                                      |                            |   |   |                            |  |   |                       |                                |   |                 |                       |                       |  | Total Conn. Load: 0<br>Total Est. Demand: 0  |                                  |   |
| Total Conn.:     0.0 A       Total Est. Demand:     0.0 A                              |                            |   |   |                            |  |   |                       |                                |   |                 |                       |                       |  | Total Conn.:       0.         Total Est. Demand:       0.  | 0 A                              |   |
| A.I.C. Rating: 65kA<br>Mains Type: MLO<br>Mains Rating: 225.0 A<br>MCB Rating: 225.0 A |                            |   |   |                            | PANEL: RP2<br>Location: MECHANICAL 48<br>Supply From: 112.5 kVA, 277 V/480<br>Mounting: Surface<br>Enclosure: Indoor | ) V, Three P  | hase, 4               |                                | Volts: 208Y/120<br>Phases: 3<br>Wires: 4                      | 1               |                       |                       | <u> </u>                                       | A.I.C. Rating: 65kA<br>Mains Type: MLO<br>Mains Rating: 225.0 A<br>MCB Rating: 225.0 A                 |                                  |   |
|  |                            |   | Notes:<br>*EXISTING BREAKER TO<br>**PROVIDE NEW BREAK   |                            | USED.<br>ED AS INDICATED, IN EXISTING SPACE.   |   |                       |                                |   |                 |                       |                       |  |  |                                  |   |
| Circuit Description<br>PARE<br>PARE  | <b>CKT</b><br>2<br>4       | Wire Size   | Wire Size   |                            | Circuit Description PANEL LPB  | <b>Trip</b><br>100.0 A                                  | Poles<br>3            | A<br>0 VA 0 VA                 | B<br>0 VA 0 VA  |                 | C                     | Poles                 | 20.0 A   | Circuit Description<br>MDF RM QUAD<br>MDF RM QUAD  | <b>CKT</b><br>2<br>4             | Wire Size   |
| DFFICE 135,136, 137<br>DFFICE 152, 153<br>DFFICE 19,160                                | 6<br>8<br>10               |   |   | 9                          | GLYCOL PUMP<br>FLOORBOX AREA 157   | 20.0 A<br>20.0 A  | 1                     | 0 VA 0 VA                      | 0 VA 0 VA   | 0 VA            | 0 VA                  | 1<br>1<br>1           | 20.0 A<br>20.0 A<br>20.0 A                     | EF-3<br>EF-4   | 6<br>8<br>10                     |   |
| FICE 157,151<br>FICE 155,156,159<br>FICE 137, 138                                      | 12<br>14<br>16             |   |   | 13                         | FLOORBOX AREA 157<br>RECEPS #157<br>BOILER   | 20.0 A<br>20.0 A<br>20.0 A                              | 1<br>1<br>1           | 0 VA 0 VA                      | 0 VA 0 VA   | 0 VA            | 0 VA                  | 1<br>1<br>1           | 20.0 A   | FIRE ALARM PANEL SECURITY PANEL ATC PANEL  | 12<br>14<br>16                   |   |
| FICE 149<br>NF RM 150<br>ARE<br>NF. RM 145 FL BX 148                                   | 18<br>20<br>22<br>24       |   |   | 17<br>19                   | ATTIC POWER & LIGHT<br>HWH   | 20.0 A<br>30.0 A  | 1                     | 0 VA 0 VA                      |   | 0 VA            | 0 VA                  | 1<br>1<br>2           | 20.0 A   | LIGHTPOLE<br>HEAT TRACE  | 18<br>20<br>22<br>24             | -   |
| FICE 153, 154, 155<br>FICE 162 & 163<br>FICE 113, 114<br>EN129-HAND DRYER              | 26<br>28<br>30<br>32       |   | -   | 25<br>27<br>29<br>31       | MICROWAVE  | 20.0 A<br>30.0 A  | 1                     | 0 VA 0 VA<br>                  | 0 VA 0 VA   | 0 VA            | 0 VA                  | 2<br>1<br>1           | 20.0 A   | ROOF FANS<br>ROOF FANS   | 26<br>28<br>30<br>32             |   |
| /M/MICROWAVE<br>FFICE 141<br>EC-CONFERENCE ROOM**                                      | 34<br>36<br>38             | (2)#12 & (1)#12 GND   |   | 35                         | SPACE<br>SPACE<br>SPACE  | <br><br>  | 1<br>1<br>1           |                                |   |                 |                       | 1<br>1<br>1           |  | SPACE<br>SPACE<br>SPACE  | 34<br>36<br>38                   |   |
| EC-CONFERENCE ROOM**<br>PACE   | 40<br>42                   | (2)#12 & (1)#12 GND   | (3)#10 & (1)#10 GND   | 39<br>41                   | ODU-1  | 30.0 A  | 2<br>Total Load       | : 0 VA                         | 1480 VA<br>1480 VA  | 1480 VA         |                       | 1                     |  | SPACE<br>SPACE   | 40<br>42                         |   |
|  |                            |   |   | Legen                      | d:   |   | otal Amps             |                                | 14.2 A  |                 | .2 A                  |                       |  |  |                                  | -   |
| Panel Totals<br>Total Conn. Load: 3120 VA  |                            |   | Load Classification   |                            |  | Co  | onnected L            | oad                            | Demand Factor   | Est             | imated Dem            | nand                  |  | Panel To<br>Total Conn. Load: 0  | VA                               |   |
| Total Est. Demand: 3135 VATotal Conn.:8.7 ATotal Est. Demand:8.7 A                     | A                          |   |   |                            |  |   |                       |                                |   |                 |                       |                       |  | Total Est. Demand:         0           Total Conn.:         0.           Total Est. Demand:         0. | 0 A                              |   |
|  |                            |   |   |                            | PANEL: LP<br>Location: MECHANICAL 48<br>Supply From: MDP<br>Mounting: Surface<br>Enclosure: Indoor                   |   |                       |                                | Volts: 480Y/277<br>Phases: 3<br>Wires: 4                      |                 |                       |                       |  | A.I.C. Rating: 65kA<br>Mains Type: MLO<br>Mains Rating: 100.0 A<br>MCB Rating: 100.0 A                 |                                  |   |
|  |                            |   | Notes:<br>*EXISTING BREAKER TO<br>**PROVIDE NEW BREAK   |                            | USED.<br>ED AS INDICATED, IN EXISTING SPACE.   |   |                       |                                |   |                 |                       |                       |  |  |                                  |   |
|  |                            |   | Wire Size   | 3                          | Circuit Description<br>OFFICE 109 & BRD RM 124<br>OFFICES 122,123,130,132-138<br>#126,128,129,141-144,146-150        | Trip           20.0 A           20.0 A           20.0 A | Poles 1 1 1           | A<br>0 V 0 AV 0                | B<br>OVA OVA  | 0 VA            | <b>C</b>              | Poles 1 1 1           | 20.0 A   | <b>Circuit Description</b><br>OFFICES 113,121<br>OFFICE 150-156, 158-163<br>VEST. 110 & CORR. 111      | 2<br>2<br>6                      | Wire Size   |
|  |                            |   |   | 7<br>9                     | MECH RM. 145<br>EMERGENC LIGTHING UNIT<br>SUPPORT OFFICES 157  | 20.0 A<br>20.0 A<br>20.0 A<br>20.0 A                    | 1<br>1<br>1<br>1      | 0 VA 0 VA                      | 0 VA 0 VA   | 0 VA            | 0 VA                  | 1<br>1<br>1<br>1<br>1 | 20.0 A<br>20.0 A<br>20.0 A                     | RMS #1127,131,139<br>EXTERIOR LIGHTING<br>EXIT LIGHTS<br>LIGHTS-OFFICE ADDITION**                      | 8<br>10<br>12<br>14              | (2)#12 & (1)#12 GN  |
|  |                            |   | (2)#12 & (1)#12 GND   | 15<br>17<br>19<br>21<br>23 | UNKNOWN LOAD<br>LTS-CONFERENCE, PRESIDENTS<br>SPACE<br>SPACE<br>SPACE  | 30.0 A<br>20.0 A<br><br>                                | 3<br>1<br>1<br>1<br>1 | 0 VA                           | 0 VA 0 VA   | 0 VA            | 0 VA                  | 1<br>1<br>1<br>1<br>1 | 30.0 A<br><br>                                 | LTS-OFFICE ADDITION**<br>MECH RM UNIT HEATER<br>SPACE<br>SPACE<br>SPACE<br>SPACE                       | 16<br>18<br>20<br>22<br>24<br>26 | (2)#12 & (1)#12 GN  |
|  |                            |   |   | 27<br>29                   | SPACE<br>SPACE   |   | 1<br>1<br>1           |                                |   |                 |                       | 1<br>1                |  | SPACE<br>SPACE   | 28<br>30                         |   |
|  |                            |   |   | 33<br>35<br>37             | SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE  | <br><br><br>  | 1<br>1<br>1<br>1<br>1 |                                |   |                 |                       | 1<br>1<br>1<br>1<br>1 |  | SPACE<br>SPACE<br>SPACE<br>SPACE<br>SPACE  | 32<br>34<br>36<br>38<br>40       |   |
|  |                            |   |   |                            | SPACE  |   | Total Load            |                                | 0 VA<br>0.0 A   |                 | <br>VA<br>0 A         | 1                     |  | SPACE  | 40                               | -   |
|  |                            |   | Load Classification   | 96U                        |  | Co  | onnected L<br>0 VA    | oad                            | Demand Factor<br>0.00%  | Esti            | imated Den<br>0 VA    | nand                  |  | Panel To   | tals                             |   |
|  |                            |   | Power   |                            |  |   | 0 VA<br>0 VA          |                                | 0.00%   |                 | 0 VA<br>0 VA          |                       |  | Total Conn. Load:0Total Est. Demand:0  |                                  |   |
|  |                            |   |   |                            |  |   |                       |                                |   |                 |                       |                       |  | Total Conn.:0.Total Est. Demand:0.   | 0 A                              |   |

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|                     | NE       | W PANEL: RP3   |           |                |              |         |                             |         |                  |           |       |                         |  |     |                     |
|---------------------|----------|--|-----------|----------------|--------------|---------|-----------------------------|---------|------------------|-----------|-------|-------------------------|--|-----|---------------------|
|                     |          | Location: MAIL / COPY / PRIN<br>Supply From: RP1<br>Mounting: Surface<br>Enclosure: Indoor | T ROOM EX |                |              |         | Volts:<br>Phases:<br>Wires: |         |                  |           |       |                         | A.I.C. Rating: 65kA<br>Mains Type: MLO<br>Mains Rating: 225.0 A<br>MCB Rating: 100.0 A |     |                     |
| Notes:              |          |  |           |                |              |         |                             |         |                  |           |       |                         |  |     |                     |
|                     |          |  |           |                |              |         |                             |         |                  |           |       |                         |  |     |                     |
| Wire Size           | СКТ      | Circuit Description  | Trip      | Poles          |              | Α       | E E                         | В       | C                | ;         | Poles | Trip                    | Circuit Description  | СКТ | Wire Size           |
| (2)#12 & (1)#12 GND |          | REC-SUPPORT OFFICES  | 20.0 A    | 1              | 0 VA         | 0 VA    |                             |         |                  |           | 1     | 20.0 A                  | REC-SUPPORT OFFICES  | 2   | (2)#12 & (1)#12 GND |
| (2)#12 & (1)#12 GND |          | REC-SUPPORT OFFICES  | 20.0 A    | 1              |              |         | 0 VA                        | 0 VA    |                  | 700.111   | 1     | 20.0 A                  | REC-OFFICES  | 4   | (2)#12 & (1)#12 GND |
| (2)#12 & (1)#12 GND |          | REC-CONFERENCE ROOM  | 20.0 A    | 1              | <b>A X C</b> |         |                             |         | 0 VA             | 720 VA    | 1     | 20.0 A                  | REC-CONFERENCE ROOM  | 6   | (2)#12 & (1)#12 GND |
| (2)#12 & (1)#12 GND |          | REC-OFFICES  | 20.0 A    | 1              | 0 VA         | 0 VA    |                             |         |                  |           | 1     |                         | REC-OFFICES  | 8   | (2)#12 & (1)#12 GND |
| (2)#12 & (1)#12 GND |          | REC-OFFICES  | 20.0 A    | 1              |              |         | 0 VA                        | 0 VA    | 0.1/1            | 0.1/1     | 1     | 20.0 A                  | RCPT Room 3.11, 3.10   | 10  | (2)#12 & (1)#12 GND |
| (2)#12 & (1)#12 GND |          | RCPT IT OFFICE-1 3.02-1  | 20.0 A    | 1              | 0.1/1        | 000.1/1 |                             |         | 0 VA             | 0 VA      | 1     | 20.0 A                  | REC-BAS PANEL  | 12  | (2)#12 & (1)#12 GND |
| (2)#12 & (1)#12 GND |          |  | 20.0 A    | 1              | 0 VA         | 660 VA  | 0000111                     | 00001/1 |                  |           | 1     | 20.0 A                  | HEAT PUMP CONDENSATE PUMPS   | 14  | (2)#12 & (1)#12 GND |
| (2)#12 & (1)#12 GND |          | HEAT PUMP CONDENSATE PUMPS   | 20.0 A    | 1              |              |         | 600 VA                      | 600 VA  | <b>F</b> (0) (1) | 0.1/2     | 1     |                         | HEAT PUMP CONDENSATE PUMPS   | 16  | (2)#12 & (1)#12 GND |
| (2)#12 & (1)#12 GND |          | HEAT PUMP CONDENSATE PUMPS   | 20.0 A    | 1              | <b>A X C</b> |         |                             |         | 540 VA           | 0 VA      | 1     |                         | SPARE  | 18  |                     |
|                     |          | SPARE  | 20.0 A    | 1              | 0 VA         | 0 VA    |                             |         |                  |           | 1     |                         | SPARE  | 20  |                     |
|                     |          | SPARE  | 20.0 A    | 1              |              |         | 0 VA                        | 0 VA    |                  | 0.14      | 1     | 20.0 A                  | SPARE  | 22  |                     |
|                     |          | SPARE  | 20.0 A    | 1              | 0.14         | 0.1/2   |                             |         | 0 VA             | 0 VA      | 1     | 20.0 A                  | SPARE  | 24  |                     |
|                     | 25       | SPARE  | 20.0 A    | 1              | 0 VA         | 0 VA    | 0.14                        | 0.14    |                  |           | 1     |                         | SPARE  | 26  |                     |
|                     |          | SPARE  | 20.0 A    | 1              |              |         | 0 VA                        | 0 VA    | 0.1/1            | 0.) (1    | 1     | 20.0 A                  | SPARE  | 28  |                     |
|                     |          | SPARE  | 20.0 A    | 1              | 0.1/1        | 0.14    |                             |         | 0 VA             | 0 VA      | 1     | 20.0 A                  | SPARE  | 30  |                     |
|                     |          | SPARE  | 20.0 A    | 1              | 0 VA         | 0 VA    | 0.1/1                       | 0.1/1   |                  |           | 1     |                         | SPARE  | 32  |                     |
|                     |          | SPARE  | 20.0 A    | 1              |              |         | 0 VA                        | 0 VA    |                  | 0.1/2     | 1     |                         | SPARE  | 34  |                     |
|                     |          | SPARE  | 20.0 A    | 1              | 0.1/1        | 0.14    |                             |         | 0 VA             | 0 VA      | 1     |                         | SPARE  | 36  |                     |
|                     |          | SPARE  | 20.0 A    | 1              | 0 VA         | 0 VA    |                             |         |                  |           | 1     |                         | SPARE  | 38  |                     |
|                     |          | SPARE  | 20.0 A    | 1              |              |         | 0 VA                        | 0 VA    |                  |           | 1     |                         | SPARE  | 40  |                     |
|                     | 41       | SPARE  | 20.0 A    | 1              |              |         |                             |         | 0 VA             | 0 VA      | 1     | 20.0 A                  | SPARE  | 42  |                     |
|                     |          |  |           | otal Load:     |              | ) VA    |                             | O VA    | 1260             |           | ]     |                         |  |     |                     |
|                     | <u> </u> |  | То        | otal Amps:     | 5.           | 5 A     | 10.                         | 7 A     | 11.              | 2 A       |       |                         |  |     | -                   |
|                     | Legen    | a:   |           |                |              |         |                             |         |                  |           |       |                         |  |     |                     |
| Load Classification |          |  | Со        | nnected Loa    | ad           | D       | emand Fact                  | tor     | Esti             | mated Dem | nand  |                         | Panel Totals   | ;   | l                   |
| Votor               |          |  |           | 2400 VA        |              |         | 100.63%                     |         |                  | 2415 VA   |       |                         |  |     |                     |
| Other               |          |  |           | 720 VA<br>0 VA |              |         | 100.00%                     |         | 720 VA           |           |       |                         | Total Conn. Load: 3120   |     |                     |
| RCPT                |          |  |           |                | 0.00%        |         |                             | (       |                  | 0 VA      |       | Total Est. Demand: 3135 | VA   |     |                     |
|                     |          |  |           |                |              |         |                             |         |                  |           |       |                         | Total Conn.: 8.7 A   |     |                     |
|                     |          |  |           |                |              |         |                             |         |                  |           |       |                         | Total Est. Demand: 8.7 A   |     |                     |
|                     |          |  |           |                |              |         |                             |         |                  |           |       |                         |  |     |                     |

|       | LIGHTING FIXTURE SCHEDULE |      |               |  |  |  |  |  |  |  |
|-------|---------------------------|------|---------------|--|--|--|--|--|--|--|
| VOLTS | WATTS                     | LAMP | COLOR<br>TEMP | DESCRIPTION  | MODEL  | COMMENTS   |  |  |  |  |
| 277V  | 50W                       | LED  | 3500K         | 2X4 LED VOLUMETRIC TROFFER                           | ELITE / 24-OAT2-LED-5000L-DIM10-MVOLT-35K-85                 | FIXTURES MARKED WITH "EM" SHALL BE PROVIDED WITH INTERGRAL EMERGENCY BATTERY PACK. |  |  |  |  |
| 277V  | 43W                       | LED  | 3500K         | 2X2 LED VOLUMETRIC TROFFER                           | ELITE / 22-OAT2-LED-4000L-DIM10-MVOLT-35K-85                 | FIXTURES MARKED WITH "EM" SHALL BE PROVIDED WITH INTERGRAL EMERGENCY BATTERY PACK. |  |  |  |  |
| 277V  | 14W                       | LED  | 3500K         | 4" ARCHITECTURAL DOWNLIGHT, SHALLOW PLENUM           | ELITE / SS4-LED-1200L-DIM10-MVOLT SS4-F-1428-1200L-WD-35K-90 | FIXTURES MARKED WITH "EM" SHALL BE PROVIDED WITH INTERGRAL EMERGENCY BATTERY PACK. |  |  |  |  |
| 277V  | 3W                        | LED  | 3500K         | WHITE THERMOPLASTIC LED EXIT SIGN WITH RED LETTERING | EVENLITE / TLX-EM-RU-W                                       | PROVIDE FIXTURE WITH 90 MINUTE MINIMUM EMERGENCY BATTERY PACK.                     |  |  |  |  |
| 277V  | 272W                      | LED  | 3500K         | 16' LINEAR DIRECT/INDIRECT PENDANT MOUNT<br>FIXTURE. | ELITE / OLS-DI-LED-4-CR16-D1250L-U750L-DIM10-MVOLT-35K-90    | FXITURE SHALL BE MOUNTED AT 7' 6" A.F.F  |  |  |  |  |
| 277V  | 30W                       | LED  | 3000K         | EXTERIOR LED WALL PACK, ADJUSTABLE LUMENS AND CCT    | ELITE / OWP-NC-101-LED-3000L-DIM10-MVOLT-30K-EMG-LED-10W     | COORDINATE MOUNTING IN HEIGHT IN FIELD TO MATCH HEIGHT OF EXISTING FIXTURES.       |  |  |  |  |

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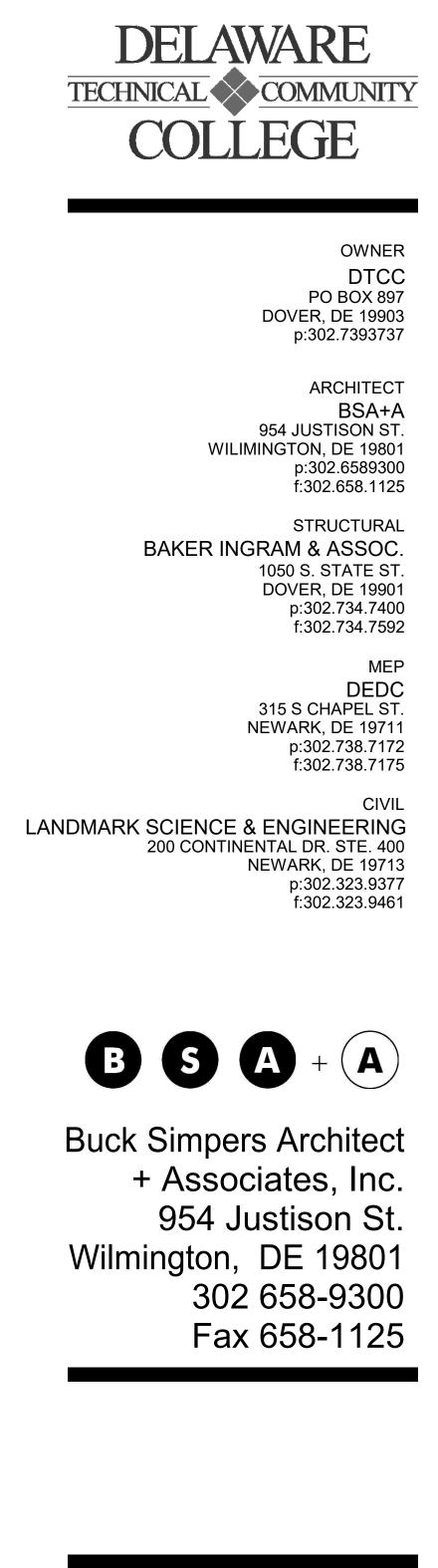
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