william mclees
architecture

January 25, 2024

To: Prospective Bidders

RE: Signature Science Tenant Fit-out
Suite 201, 600 Aviation Research Blvd
Egg Harbor Township, NJ 08234

ADDENDUM NO. 1

The following items have been issued to append, replace and/or clarify the Bid Documents for the above mentioned project. The documents included herein shall be considered part of the Bid Documents and consequently exhibits to the Contract for Construction with the Atlantic County Improvement Authority:

ITEM	*Description*
1	*Clarifications (attached)*
2	*Deduct Alternates List (Attached)*
3	*Sheet A2.00 revised to eliminate voided details*
4	*Sheet A3.00 Door Finish schedule Revised.*

5 MacArthur Blvd
Somers Point, NJ 08244
www.wmarch.net

CLARIFICATIONS

1. Folding partition has been eliminated from the project
2. Millwork laptop counter and associated seating has been removed from the project
3. All signage has been removed from the project
4. All furniture shall be provided and installed by Tenant.

END OF CLARIFICATIONS

ATLANTIC COUNTY IMPROVEMENT AUTHORITY
SIGNATURE SCIENCE TENANT IMPROVEMENTS
SUITE 201
600 AVIATION RESEARCH BLVD
EGG HARBOR TOWNSHIP, NJ

SECTION 01 2300

DEDUCT ALTERNATES

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes
1. Documentation of changes to Contract Sum and Contract Time.

B. Contract Documents contain pertinent requirements for materials and methods to accomplish work described herein.

C. Provide alternate costs for inclusion in Contract Sum if accepted by Owner.

1.2 RELATED REQUIREMENTS

A. Owner/Contractor Agreement: Alternates accepted by Owner for incorporation into the Work.

B. Individual specification sections identified.

1.3 PROCEDURES

A. Alternates will be exercised at the option of Owner.

B. Coordinate related work and modify surrounding work as required to complete the work, including changes under each Alternate, when acceptance is designated in Owner/Contractor Agreement.

1.4 DESCRIPTION OF DEDUCT ALTERNATES

A. DEDUCT ALTERNATE NO. 1
1. Door, frame and hardware for door number 104 to be provided by Owner, installed by Contractor.

B. DEDUCT ALTERNATE NO. 2
1. Carpeting at office area to be deducted

C. DEDUCT ALTERNATE NO. 3
1. Delete new VAV at lab space along with all associated ductwork, wiring, piping and controls

PART 2 PRODUCTS

Not used

PART 3 EXECUTION

Not used

END OF SECTION

END OF ADDENDUM NO. 1

SECTION C
FORM OF PROPOSAL

TO: ATLANTIC COUNTY IMPROVEMENT AUTHORITY

With regard to the Contract for:
NATIONAL AEROSPACE RESEARCH AND TECHNOLOGY PARK
TENANT FIT-OUT- SIGNATURE SCIENCE
EGG HARBOR TOWNSHIP, NEW JERSEY 08234

The undersigned, on behalf of the Bidder, _____, hereby declares that he/she:

I. is thoroughly familiar with the provisions of the Bidding Documents and conditions at the sit
II. has the equipment, technical ability, personnel, and facilities to properly complete the Contract, should it be awarded to Bidder, in accordance with the Contract Documents.
III. is of the opinion that the Contract Documents are appropriate and adequate for the construction of this Project.

PROPOSAL FORM
National Aerospace Research and Technology Park
Tenant Fit-out- Signature Science
Egg Harbor Township, N.J. 08234

The undersigned, having read the Advertisement for Bids, the Instructions to Bidders, the Form of Agreement, the General Conditions, the Supplementary Conditions, the Specifications and Drawings, and having visited the site as existing, hereby agrees that the Bidder shall furnish and perform all work required by or reasonably inferred from the Contract Documents to complete the Demolition Contract.

Tenant Fit-out- Signature Science

1) Total Lump Sum $_____

2) Allowance 10% added to Base Bid $_____

Total Base Bid (Items 1 thru 2) $_____

DEDUCT ALTERNATE NO. 1
Door, frame and hardware for door number 104
to be provided by Owner, installed by Contractor. $_____

DEDUCT ALTERNATE NO. 2
Carpeting at office area to be deducted $_____

DEDUCT ALTERNATE NO. 3
Delete new VAV at lab space along with all associated
ductwork, wiring, piping and controls $_____

Allowance contingency–

The ACIA will determine an allowance (contingency), equal to 10% of the lowest, responsive, awarded base bid. This allowance shall be set aside to pay for items that are unforeseen or additional work, as allowed under applicable law, which is not in the specifications or shown on the drawings. Before any work is to start under this category of allowance, it shall be approved in writing by the Atlantic County Improvement Authority after consultation with the Atlantic County (or his designee). No payment shall be made for any work performed without the indicated written approval.

GENERAL NOTES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE NEW JERSEY UNIFORM CONSTRUCTION CODE (NJAC 5:23) AND ALL APPLICABLE MODEL BUILDING SUBCODES, INCLUDING BUT NOT LIMITED TO:
NEW JERSEY INTERNATIONAL BUILDING CODE, 2021
ICC/ANSI 117.1, 2021 ACCESSIBLE AND USABLE BUILDING AND FACILITIES
INTERNATIONAL MECHANICAL CODE, 2021
NATIONAL ELECTRICAL CODE, 2017
NATIONAL STANDARD PLUMBING CODE, 2021

ALL WORK SHALL BE PERFORMED DURING NORMAL WORK HOURS, AS SET FORTH IN THE MUNICIPAL ORDINANCE WHICH HOLDS JURISDICTION OVER THE AREA OF WORK, UNLESS SPECIFICALLY PROVIDED OTHERWISE IN THESE CONTRACT DOCUMENTS, SPECIFICATIONS, OR OTHER WRITTEN AGREEMENTS BETWEEN OWNER AND CONTRACTOR.

THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.

THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK-SITE AND PROTECT ALL BUILDING MATERIALS FROM THE ELEMENTS AND FROM ON-GOING CONSTRUCTION WORK AS NECESSARY TO MAINTAIN THE MATERIAL INTEGRITY.

THE AREA OF WORK SHALL BE SEPARATED FROM ALL OTHER OCCUPIED AREAS BY MINIMUM 6 MIL POLY ETHYLENE DUST CURTAIN. WHERE AREAS OF WORK ARE ADJACENT TO PUBLIC AREAS TO BE OCCUPIED AND CONSTRUCTION PARTITIONS ARE NOT SPECIFIED IN OTHER AREAS OF THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, THE AREA OF WORK SHALL BE SEPARATED BY A UL DESIGN U465 ONE HOUR CONSTRUCTION PARTITION FROM FLOOR TO CEILING ABOVE THE MIN. 5/8" G.W.B. EACH SIDE OF 3-5/8" METAL STUD FRAMING AT 16" O.C. AND 3" S.A.F.B. IN THE STUD CAVITY. ALL CONSTRUCTION PARTITION REQUIREMENTS SHALL COMPLY WITH NJAC 5:23-9.6(C) IN ALL CASES.

WHEN NOT SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS, ALL SITE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE MUNICIPALITY HAVING JURISDICTION OVER THE PROJECT AREA AND ICC/ANSI 117.1, 2021

ALL LANDSCAPING SHALL BE INSTALLED AT SUCH TIME SO AS TO BE IN HEALTHY CONDITION AT THE TIME OF SUBSTANTIAL COMPLETION. ANY LANDSCAPE MATERIALS NOT IN SUCH CONDITION AT THE TIME OF SUBSTANTIAL COMPLETION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, GROWING SEASON, AND CONSTRUCTION SCHEDULE IN SCHEDULING INSTALLATIONS AFTER SUBSTANTIAL COMPLETION.

ALL BEARING SOIL SHALL BE UNDISTURBED OR 100% COMPACTED SOIL TO ACCOMMODATE THE INSTALLATION OF FOOTINGS, FOUNDATION WALLS, PILINGS, ETC. WHEN NOT INDICATED OTHERWISE IN THESE CONTRACT DOCUMENTS AND SPECIFICATIONS VIA SOIL REPORT, BEARING CAPACITY OF THE SOIL IN THE AREA OF WORK SHALL BE CONSIDERED TO BE 3,000 PSI WITHOUT DETRIMENTAL SETTLEMENT. IN SUCH CASES, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TESTING TO VERIFY THIS CONDITION PRIOR TO COMMENCEMENT OF WORK.

FOOTINGS SHALL BE LOCATED A MINIMUM OF 30" BELOW GRADE, UNLESS OTHERWISE INDICATED IN THESE DOCUMENTS.

IN PERFORMING ANY EARTHWORK, ALL EXCAVATED AREAS SHALL BE PROVIDED WITH TEMPORARY SUPPORTS AND/OR SHARING TO PREVENT ANY COLLAPSE. EXCAVATED SOILS, FILL, ETC. SHALL BE STORED SO AS NOT TO EXCEED THE ANGLE OF REPOSE FOR EACH TYPE. ALL BEARING SOIL, WHEN EXCAVATED AND STORED SHALL BE PROPERLY PROTECTED FROM THE ELEMENTS UNTIL BACKFILLING.

BACKFILLING SHALL BE PERFORMED IN MAX. 6" LIFTS UNLESS OTHERWISE INDICATED IN THESE DOCUMENTS. EACH LIFT SHALL BE TAMPED PRIOR TO CONTINUING WORK.

ALL MISCELLANEOUS WOOD SHALL BE MIN. NO. 1 OR BETTER DOUGLASS FIR. WOOD NAILERS, BLOCKING, ETC. IN FOUNDATION CONSTRUCTION SHALL BE TREATED TO RESIST DECAY.

ALL CRAWL SPACES AND SLAB ON-GRAD CONDITIONS SHALL BE PROVIDED WITH 6 MIL. POLYETHYLENE VAPOR BARRIER FOR THE ENTIRE FOOTPRINT AND MIN. 24" WIDE 2" RIGID INSULATION AT THE ENTIRE PERIMETER OF THE BUILDING FOOTPRINT.

ALL CONCRETE TO BE PROVIDED SHALL BE MIN. 4,000 PSI IN 28 DAYS UNLESS INDICATED OTHERWISE IN THESE DOCUMENTS.

ALL CONCRETE MASONRY UNITS WHEN LOAD-BEARING SHALL CONFORM TO ASTM C34-84. IN NON-LOAD-BEARING APPLICATIONS MASONRY UNITS SHALL COMPLY WITH C56-81.

ALL DOORS AND WINDOWS AT EXTERIOR WALLS SHALL BE PROVIDED WITH ALUM. SILL FLASHING UNDER THE ENTIRE WIDTH OF THE OPENING, AT WINDOW AREAS, FLASHING SHALL HAVE UPTURNED EDGES WITH SOLDERED CORNERS AND PITCH TO THE EXTERIOR. ALL WINDOWS AND DOORS SHALL BE PROVIDED WITH SHIM SPACES AT THE PERIMETER TO ENSURE A PLUMB AND TRUE INSTALLATION.

ALL GLAZING IN HAZARDOUS AREAS AS DEFINED IN 2406.2 SHALL BE TEMPERED GLAZED SAFETY GLASS AND SHALL BE IMPACT-RESISTANT GLAZED OPENINGS.

ALL GYPSUM WALL BOARD TO BE 5/8" FIRECODE 'C' UNLESS INDICATED OTHERWISE IN THE DOCUMENTS.

ALL BATHROOM AND KITCHEN AREAS SHALL BE PROVIDED WITH WATER-RESISTANT G.W.B., TYPICAL. ALL TILE AREAS SHALL BE PROVIDED WITH CEMENTITIOUS BOARD BACK-UP UNLESS INDICATED OTHERWISE.

IN ALL PAINTED WALL AREAS, G.W.B. SHALL BE TAPED AND SPACKLED TO MIN. LEVEL 4 FINISH.

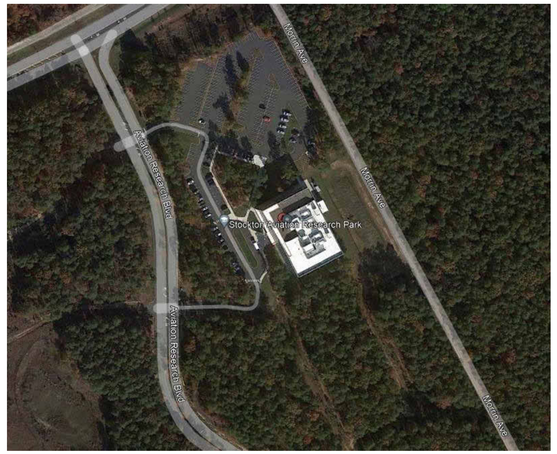
IN ALL WALL-COVERED AREAS, G.W.B. SHALL BE TAPED AND SPACKLED TO MIN. LEVEL 4, FINISH.

SHOP DRAWINGS SHALL BE REQUIRED FOR ALL MILLWORK.

ALL THRESHOLDS AND OTHER FLOORING TRANSITIONS SHALL COMPLY WITH THE FLOOR LEVEL CHANGES CONSTITUTED IN ICC/ANSI 117.1, 2021.

ALL SPECIALTIES, ACCESSORIES, OR OTHER WALL-MOUNTED EQUIPMENT, FIXTURES, ETC. SHALL BE PROVIDED WITH NON-COMBUSTIBLE BLOCKING IN THE WALL CAVITY FOR SUPPORT UNLESS SPECIFICALLY NOTED OTHERWISE.

ALL ELEVATOR PITS (WHERE APPLICABLE) SHALL BE PROVIDED WITH SUMP PUMP CONNECTED TO THE BUILDING STORM WATER SYSTEM. THE PIT SHALL BE PROVIDE WITH A GALV. STEEL ACCESS LADDER MOUNTED IN AN OSHA COMPLIANT LOCATION WITH WORK LIGHT AND SWITCH ACCESSIBLE FROM THE POINT OF ENTRY. ALL ELEVATOR DOORS SHALL BE PROVIDED WITH STRUCTURAL STEEL SILL ANGLES AS REQUIRED BY THE MANUFACTURER.



AERIAL MAP

TENANT IMPROVEMENTS TO SIGNATURE SCIENCE

600 AVIATION RESEARCH BOULEVARD
EGG HARBOR TOWNSHIP, NJ 08234

OWNER:	ATLANTIC COUNTY IMPROVEMENT AUTHORITY 600 AVIATION RESEARCH BLVD. EGG HARBOR TOWNSHIP, NJ 08234
TENANT:	SIGNATURE SCIENCE TEXAS
ARCHITECT:	WILLIAM McLEES ARCHITECTURE 5 MACARTHUR BOULEVARD SOMERS POINT, NJ 08244 CONTACT: WILLIAM McLEES, AIA 609.927.0888

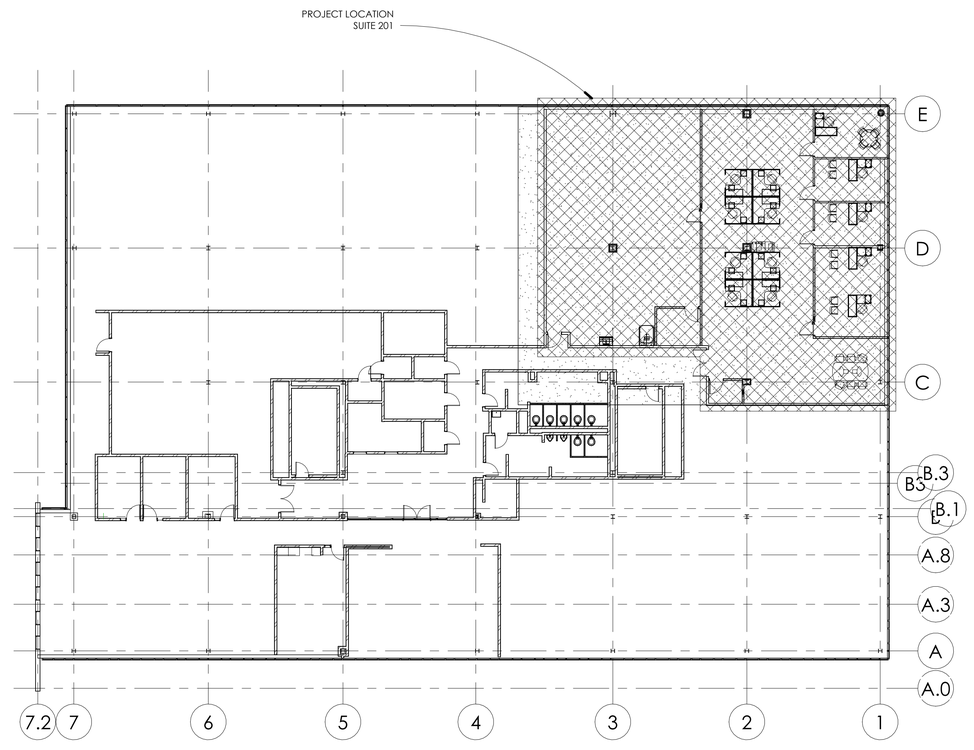
BUILDING CODE ANALYSIS

This work is governed by the New Jersey Uniform Construction Code, New Jersey Edition of the 2021 International Building Code and all other applicable subcodes as adopted therein. This work shall qualify as an **ALTERATION** under the requirements and definitions of the New Jersey U.C.C.

	Enclosed
Total Tenant Area:	4700 S.F.
Building Footprint:	22,909 S.F.
Use Group:	B
Construction Class:	II B
Occupant Load:	32

DRAWING LIST

SHEET NUMBER	SHEET NAME	ISSUE DATE	CURRENT REVISION	REVISION DATE
SK01	DETAILS	09/21/23		
G0.00	COVER SHEET	8.16.23		
G1.00	LIFE SAFETY PLANS	8.16.23		
D1.00	DEMOLITION PLAN	8.16.23	1	01.23.24
A1.00	FLOOR PLANS	8.16.23		
A1.02	REFLECTED CEILING PLAN	8.16.23		
A1.01	FURNITURE FIXTURE AND EQUIPMENT PLAN	8.16.23	1	01.23.24
A2.00	INT. DETAIL ELEVATIONS	8.16.23	1	01.23.24
A3.00	DOOR TYPES & FINISH SCHEDULE	8.16.23	1	01.23.24



1 KEY PLAN- SECOND FLOOR
1/16" = 1'-0"

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New Jersey State Certificate of Authorization #
21AC00055500

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TENANT:
SIGNATURE SCIENCE
SUITE 201

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RE-BID ISSUE

No.	Description	Date

COVER SHEET

Scale	As indicated
Drawn by	MAC
Date	8.16.23

G0.00

Comission no. 23031

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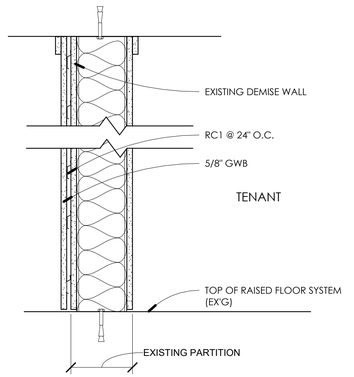
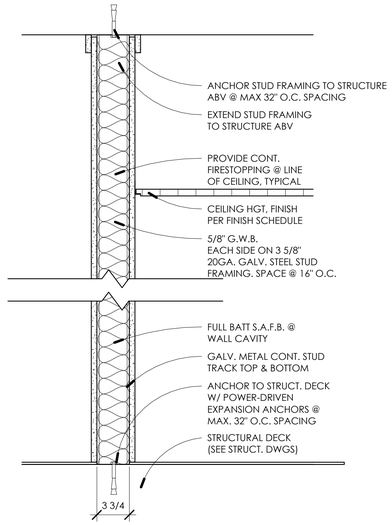
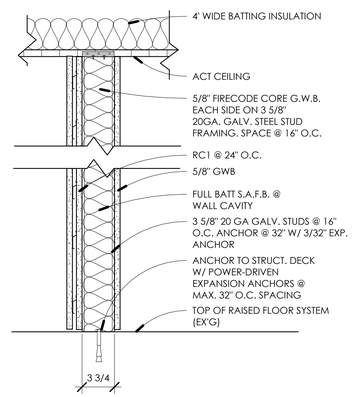


5 DEMISING ACOUSTIC WALL
1 1/2" = 1'-0"

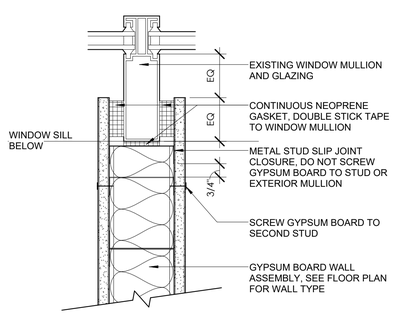


FIRE RESISTANCE RATING/TEST: NONE
NON-BEARING LIMITING HGT: 14'-3"
STC RATING: 48

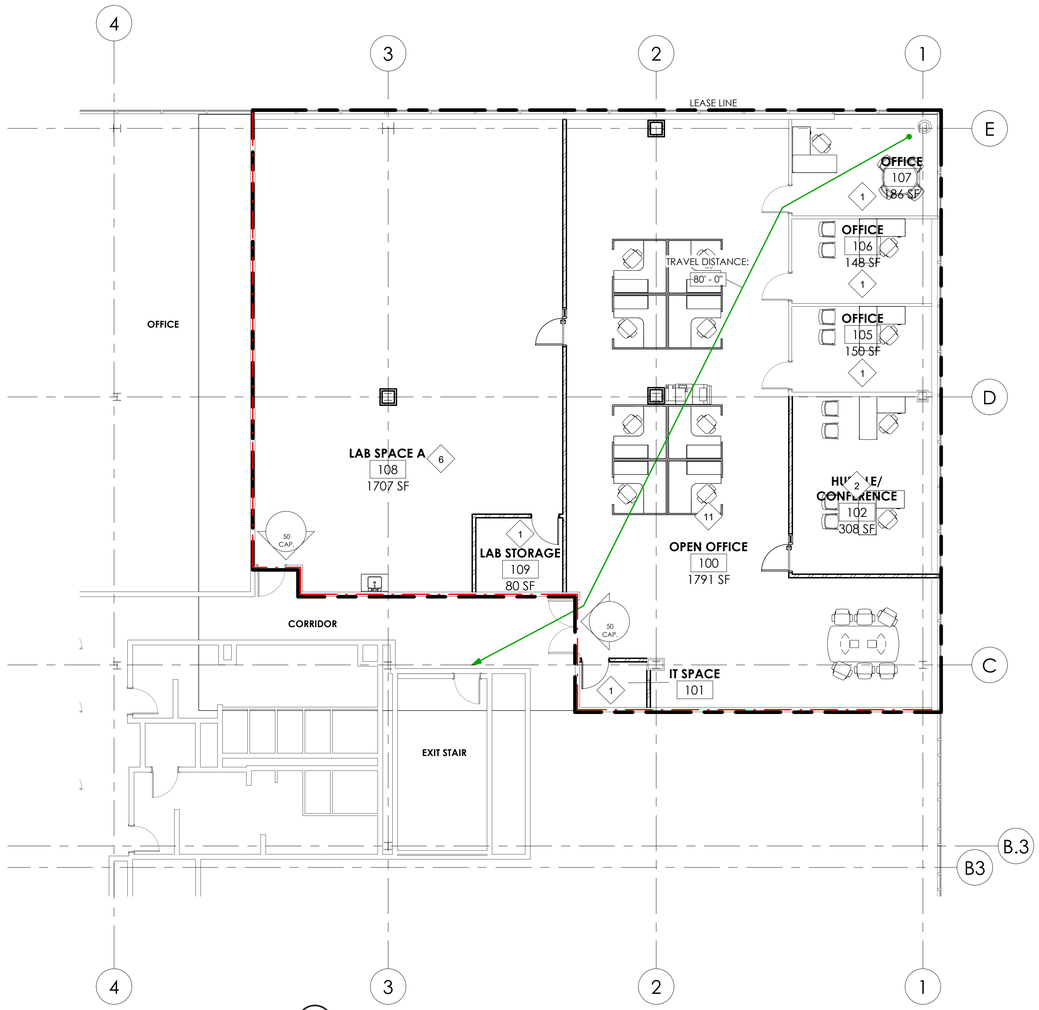
3 PARTITION 040
1 1/2" = 1'-0"



4 PARTITION 041
1 1/2" = 1'-0"



2 PARTITION AT EXTERIOR MULLION
3" = 1'-0"



1 LIFE SAFETY PLAN
1/8" = 1'-0"

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CLIENT:
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TENANT:
SIGNATURE SCIENCE
SUITE 201

600 AVIATION RESEARCH BLVD.
EGG HARBOR TOWNSHIP, NJ 08234

RE-BID ISSUE

No.	Description	Date

LIFE SAFETY PLANS

Scale	As indicated
Drawn by	MAC
Date	8.16.23

G1.00

Comission no. 23031

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DEMOLITION GENERAL NOTES:

GC SHALL COORDINATE WITH THE OWNER ON ALL DEMOLITION AREAS PRIOR TO COMMENCEMENT OF WORK SO AS TO MINIMIZE DISRUPTION OF TENANTS, OCCUPANTS, ETC.

GC SHALL PROVIDE THE OWNER AND AFFECTED TENANTS WITH 48 HOURS NOTICE PRIOR TO ANY UTILITY SHUT OFFS IN CONJUNCTION WITH THE SCOPE OF WORK. DURATION AND SCHEDULED COMPLETION SHALL BE PROVIDED TO THE SAME AT SUCH TIME.

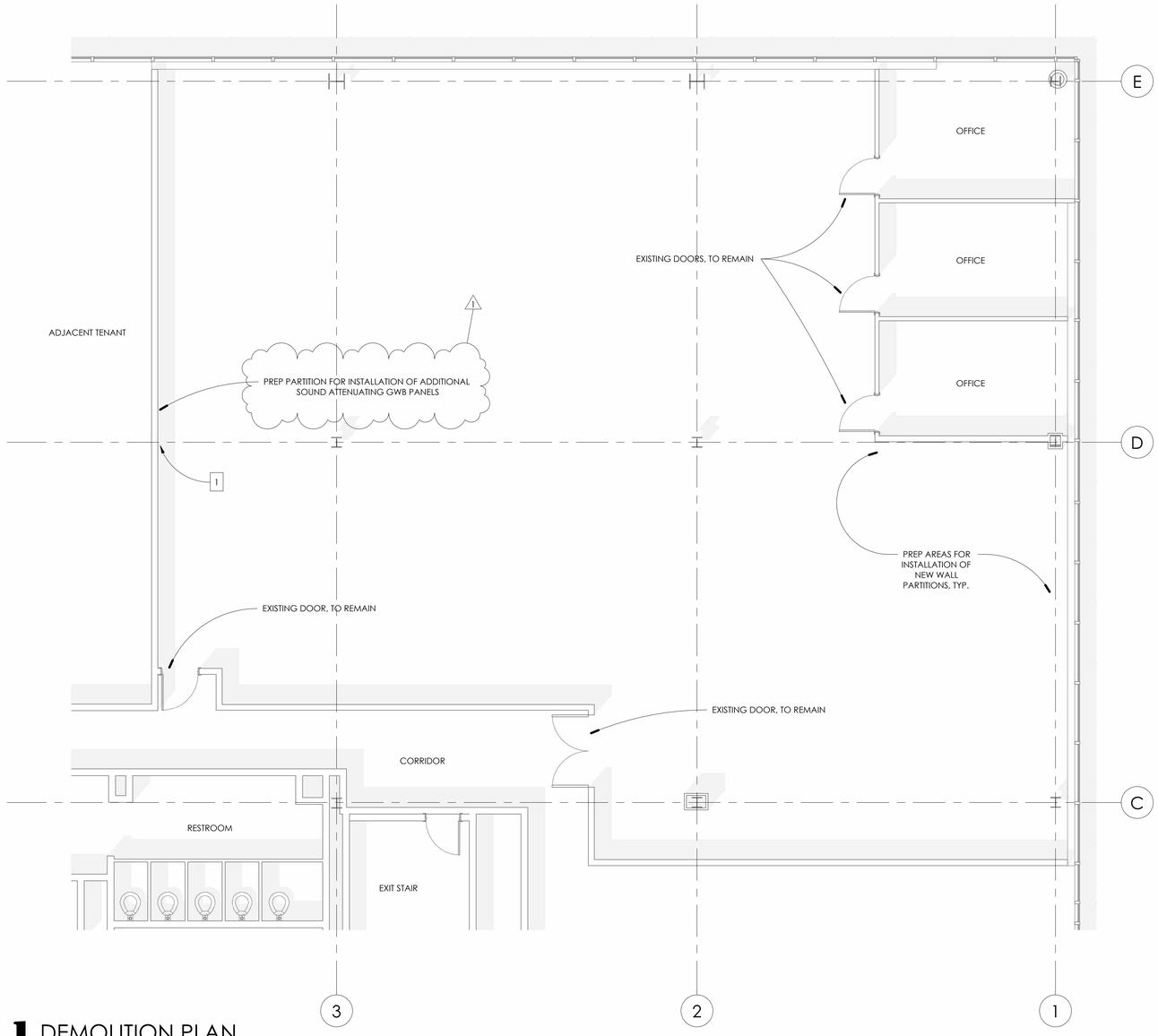
GC SHALL STAGE ALL DEMOLITION SO AS TO MAINTAIN THE FUNCTION OF ALL LIFE SAFETY SYSTEMS IN THE BUILDING DURING DEMOLITION AND ALL OTHER PHASES OF WORK. IF MODIFICATIONS TO THE LIFE SAFETY SYSTEMS ARE REQUIRED, THE CONTRACTOR SHALL PROVIDE TEMPORARY REDUNDANT SYSTEMS FOR THE FULL DURATION OF THIS PORTION OF WORK.

GC SHALL COORDINATE WITH THE OWNER AND THE BUILDING OFFICIAL DURING DEMOLITION OF EXIT STAIR AREAS IN ORDER TO MAINTAIN EGRESS CAPACITY FOR THE ENTIRE BUILDING DURING ALL PHASES OF WORK.

STAGING AREAS SHALL BE CONTAINED COMPLETELY WITHIN THE CONFINES OF THE SITE AND SHALL BE COORDINATED WITH THE OWNER'S NEEDS/USE OF THE SITE.

DEMOLITION KEY NOTES

1 RELOCATE THE EXIS'G OUTLET INTO NEW WALL FINISH



1 DEMOLITION PLAN
3/16" = 1'-0"

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RE-BID ISSUE

No.	Description	Date
1	Revision 1	01.23.24

DEMOLITION PLAN

Scale	As indicated
Drawn by	MAC
Date	8.16.23

D1.00

Comission no. 23031

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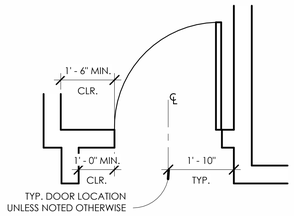
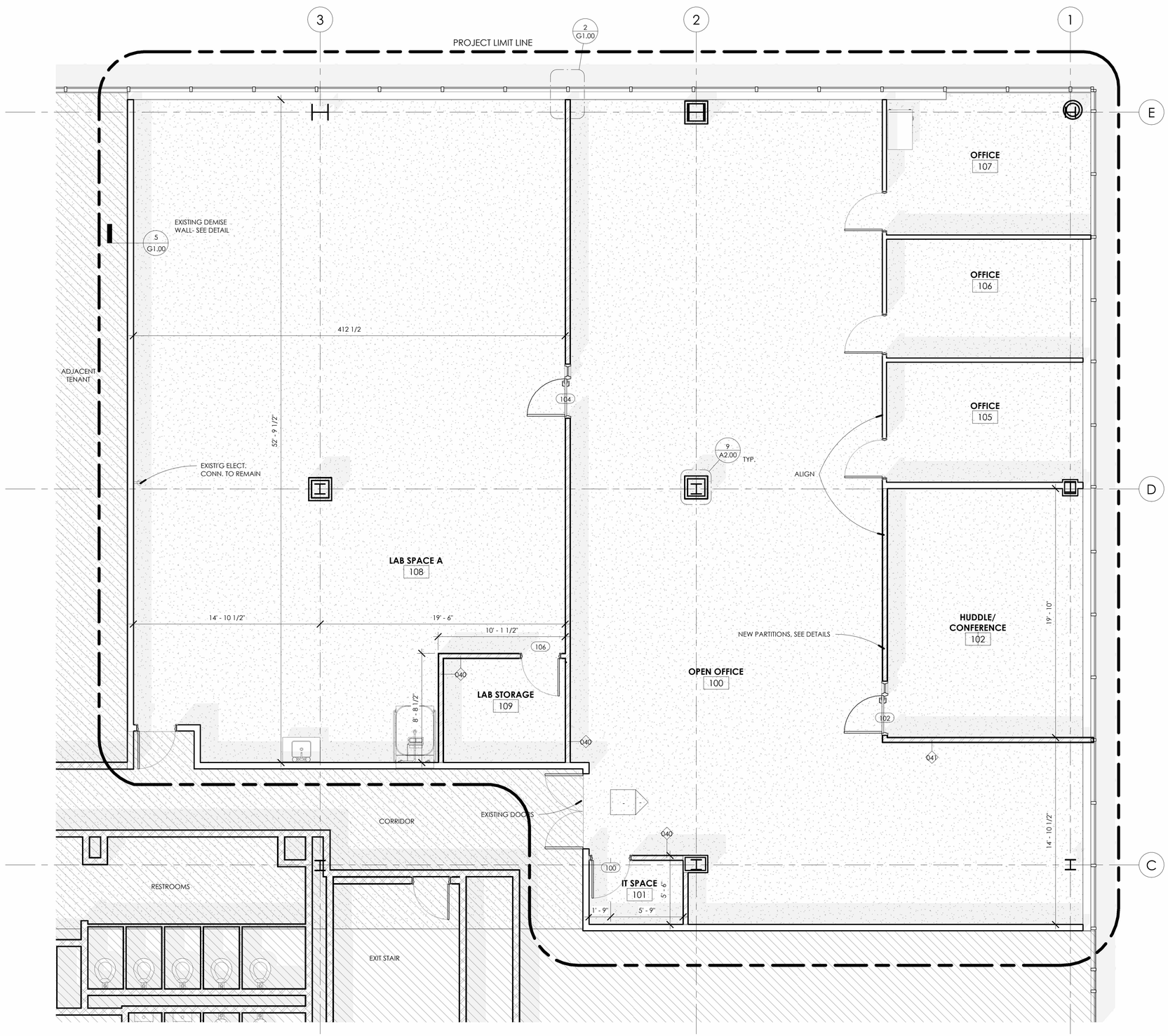


2 TYPICAL DOOR DETAIL
1/2" = 1'-0"

FLOOR PLAN LEGEND

- DATUM TAG (HEIGHT ABOVE NAVD 88)
- WALL TYPE TAG (WALL WIDTH / FIRE RATING / TYPE)
- DOOR TYPE TAG
- WINDOW TYPE TAG
- ROOM TAG (ROOM NAME / ROOM NUM / OCC OR SF)
- SECTION (DRAWING / SHEET)
- ENLARGED VIEW (DRAWING / SHEET)
- MASONRY PARTITION
- FRAMED PARTITION
- HINGED DOOR
- DOUBLE DOOR
- DOUBLE ACTING DOOR
- WINDOW WALL



1 SUITE 201 FLOOR PLAN
1/4" = 1'-0"

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No.	Description	Date

FLOOR PLANS

Scale	As indicated
Drawn by	MAC
Date	8.16.23

A1.00

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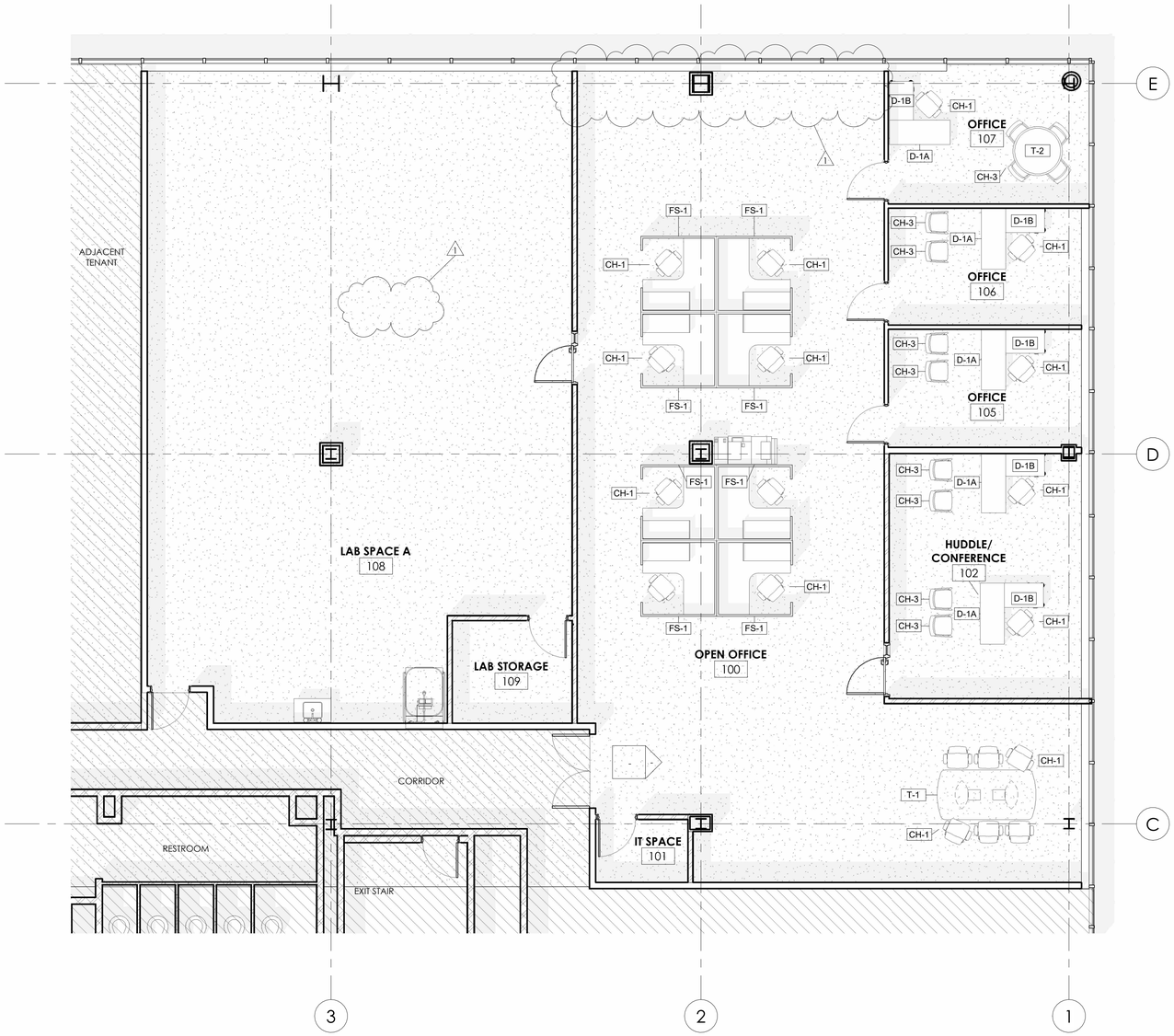
FURNITURE and EQUIPMENT SCHEDULE					
UNIT	DESCRIPTION	MANUFACTURER	MODEL	Count	Comments
CH-1	OFFICE CHAIR	STEELCASE		19	
CH-3	GUEST CHAIR	HAWORTH		12	
D-1A	OFFICE DESK	STEELCASE		5	
D-1B	OFFICE DESK RETURN WITH PEDESTAL	STEELCASE		5	
T-1	CONFERENCE TABLE	STEELCASE		1	
T-2	ROUND CONFERENCE TABLE	STEELCASE		1	

NOTE: ALL FURNITURE TO BE AS PROVIDED BY TENANT



1 FF&E FLOOR PLAN
3/16" = 1'-0"

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RE-BID ISSUE

No.	Description	Date
1	Revision 1	01.23.24

FURNITURE FIXTURE AND EQUIPMENT PLAN

Scale	3/16" = 1'-0"
Drawn by	MAC
Date	8.16.23

A1.01

Comission no. 23031

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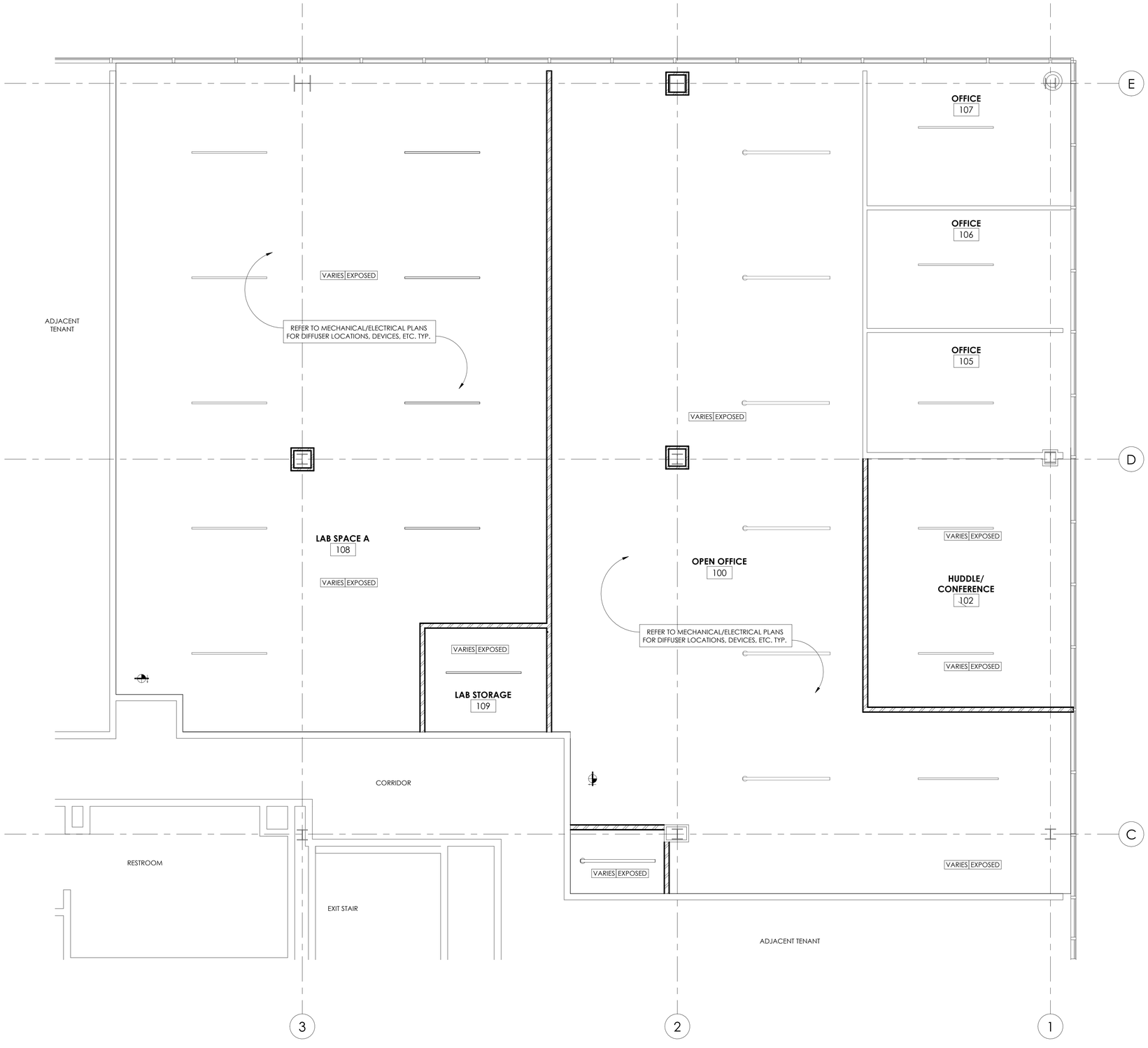

REFLECTED CEILING LEGEND

- 9'-0" GWB — CEILING TAG; CEILING FINISH MATERIAL; CEILING HT. A.F.F.
- T — THERMOSTAT
- DIRECT VENT THRU ROOF
- SUPPLY DIFFUSER
- RETURN VENT
- SD — SMOKE DETECTOR
- CO — CO DETECTOR
- ELEC. — ELECTRICAL PANEL
- EXIT SIGN
- EMERGENCY LIGHT
- CEILING MOUNTED FIXTURE
- 2x2 TROFFER
- WALL MOUNTED FIXTURE
- SMALL PENDANT FIXTURE
- LARGE PENDANT/ CHANDELIER
- LINEAR SURFACE MOUNT LIGHT FIXTURE
- LINEAR PENDANT LIGHT FIXTURE
- FAN/LIGHT
- TRACK LIGHT

1 SUITE 201 REFLECTED CEILING PLAN
1/4" = 1'-0"

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No.	Description	Date

REFLECTED CEILING PLAN

Scale	1/4" = 1'-0"
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Date	8.16.23

A1.02

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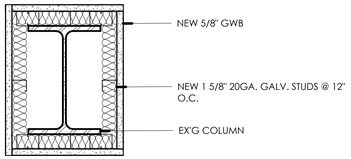
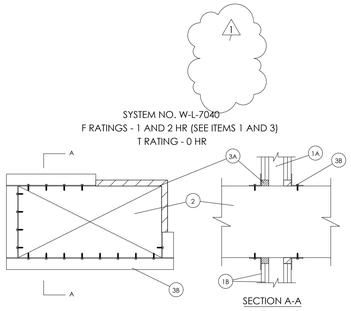


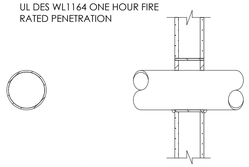
9 COLUMN DETAIL
1 1/2" = 1'-0"



1. WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2X4 IN. LUMBER SPACED 16 IN. OC. STEEL TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. ADDITIONAL FRAMING MEMBERS SHALL BE USED TO COMPLETELY FRAME AROUND OPENING.
   B. WALLBOARD, GYPSUM* - NOM 5/8 IN. THICK WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALL BOARD TYPE, NUMBER OF LAYERS AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN NUMBER. MAX AREA OF OPEING IS 1244 IN. WITH THE DIMENSION OF 49-1/4 IN. THE HOURLY FIRE RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. STEEL DUCT - NOM. 24 IN. BY 48 IN. (OR SMALLER) NO. 24 GAUGE (OR HEAVIER) GALV STEEL DUCT TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE SHALL BE MIN 1/4 IN. TO A MAX 1 IN. DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FILL, VOID OR CAVITY MATERIAL* - SEALANT - IN 1 HR ASSEMBLIES, MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHINANNULUS FLUSH WITH BOTH SURFACES OF WALL. IN 2 HR ASSEMBLIES, MIN 1-1/4 IN. THICKNESS OF SEALANT APPLIED WITH ANNULUS FLUSH TO BOTH SURFACES OF WALL.
      HILTI CONSTRUCTION CHEMICALS, DIV OF
      HILTI, INC - FS-ONE SEALANT OR CP601S ELASTOMERIC FIRESTOP SEALANT RO CP606 FLEXIBLE SEALANT
   B. STEEL RETAINING ANGLE - MIN 1-1/2 IN. BY 1-1/2 IN. NO. 16 MSG (0.060 IN.) GALV STEEL ANGLES CUT TO FIT CONTOUR OF DUCT WITH A 1-1/2 IN. OVERLAP ON BOTH SURFACES OF WALL. VERTICAL LEG OF ANGLE SECURED TO DUCT WITH MIN NO. 8 BY 3/4 IN. LONG SHEET METAL SCREWS PER SIDE, SPACED MAX OF 3 IN. OC.

*BEARING THE UL CLASSIFICATION MARK

UL DES WL1164 ONE HOUR FIRE RATED PENETRATION



1. WALL ASSEMBLY: THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2X4 IN. LUMBER SPACED 16 IN. OC. STEEL TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. ADDITIONAL FRAMING MEMBERS SHALL BE USED TO COMPLETELY FRAME AROUND OPENING.
   B. WALLBOARD, GYPSUM* - NOM 5/8 IN. THICK WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALL BOARD TYPE, NUMBER OF LAYERS AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN NUMBER. MAX AREA OF OPEING IS 1244 IN. WITH THE DIMENSION OF 49-1/4 IN. THE HOURLY FIRE RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
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3. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FILL, VOID OR CAVITY MATERIAL* - SEALANT - IN 1 HR ASSEMBLIES, MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHINANNULUS FLUSH WITH BOTH SURFACES OF WALL. IN 2 HR ASSEMBLIES, MIN 1-1/4 IN. THICKNESS OF SEALANT APPLIED WITH ANNULUS FLUSH TO BOTH SURFACES OF WALL.
      HILTI CONSTRUCTION CHEMICALS, DIV OF
      HILTI, INC - FS-ONE SEALANT OR CP601S ELASTOMERIC FIRESTOP SEALANT RO CP606 FLEXIBLE SEALANT
   B. STEEL RETAINING ANGLE - MIN 1-1/2 IN. BY 1-1/2 IN. NO. 16 MSG (0.060 IN.) GALV STEEL ANGLES CUT TO FIT CONTOUR OF DUCT WITH A 1-1/2 IN. OVERLAP ON BOTH SURFACES OF WALL. VERTICAL LEG OF ANGLE SECURED TO DUCT WITH MIN NO. 8 BY 3/4 IN. LONG SHEET METAL SCREWS PER SIDE, SPACED MAX OF 3 IN. OC.

*BEARING THE UL CLASSIFICATION MARK

1 PENETRATION DETAILS
1" = 1'-0"

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ATLANTIC COUNTY IMPROVEMENT AUTHORITY
TENANT:
SIGNATURE SCIENCE
SUITE 201

600 AVIATION RESEARCH BLVD.
EGG HARBOR TOWNSHIP, NJ 08234

RE-BID ISSUE

No.	Description	Date
1	Revision 1	01.23.24

INT. DETAIL ELEVATIONS

Scale	As indicated
Drawn by	MAC
Date	8.16.23

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Comission no. 23031

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SECTION 054000 - COLD-FORMED METAL FRAMING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA.
B. COMPLY WITH AISI'S "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" FOR CALCULATING STRUCTURAL CHARACTERISTICS OF COLD-FORMED METAL FRAMING.
CONSIDER RETAINING FIRST PARAGRAPH BELOW IF PROJECT IS LIMITED TO ONE- AND TWO-FAMILY RESIDENTIAL CONSTRUCTION, FRAMING IS FULLY DETAILED, AND THIS HUD DOCUMENT IS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. IF RETAINING, DELETE PERFORMANCE REQUIREMENTS AND REFERENCES TO A QUALIFIED PROFESSIONAL ENGINEER ABOVE.
C. COMPLY WITH HUD'S "PRESCRIPTIVE METHOD FOR RESIDENTIAL COLD-FORMED METAL FRAMING."
D. COMPLY WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL."
E. PROTECT COLD-FORMED METAL FRAMING FROM CORROSION, DEFORMATION, AND OTHER DAMAGE DURING DELIVERY, STORAGE, AND HANDLING.
PART 2 - PRODUCTS
2.1 MATERIALS
SELECT ONE OR MORE OF GRADE REQUIREMENTS IN FIRST PARAGRAPH BELOW, OR REVISE TO A DIFFERENT GRADE IF NECESSARY; IF MULTIPLE GRADES ARE REQUIRED, IDENTIFY LOCATIONS ON DRAWINGS.
A. GALVANIZED STEEL SHEET: ASTM A 653/A 653M, G60 ZINC COATED; STRUCTURAL STEEL (SS); GRADE 33.
B. STEEL STUDS: C-SHAPED, WITH FLANGE WIDTH OF NOT LESS THAN 1-5/8 INCHES, MINIMUM UNCOATED STEEL THICKNESS OF 0.0329 INCH, AND OF DEPTHS INDICATED.
C. STEEL JOISTS: C-SHAPED, WITH FLANGE WIDTH OF NOT LESS THAN 1-5/8 INCHES, MINIMUM UNCOATED STEEL DESIGN THICKNESS OF 0.538 INCH, AND OF DEPTHS INDICATED.
D. STEEL TRACK: U-SHAPED, MINIMUM UNCOATED METAL THICKNESS SAME AS STUDS OR JOISTS USED WITH TRACK, WITH FLANGE WIDTHS OF 1-1/4 INCHES FOR STUDS AND 1-5/8 INCHES FOR JOISTS, OF WEB DEPTHS INDICATED.
2.2 ACCESSORIES
A. ACCESSORIES: FABRICATE FROM THE SAME MATERIAL AND FINISH USED FOR FRAMING MEMBERS, OF MANUFACTURER'S STANDARD THICKNESS AND CONFIGURATION, UNLESS OTHERWISE INDICATED.
B. CAST-IN-PLACE ANCHOR BOLTS: ASTM F 1554, GRADE 36, THREADED CARBON-STEEL HEX-HEADED BOLTS AND CARBON-STEEL NUTS; AND FLAT, HARDENED-STEEL WASHERS; ZINC COATED BY HOT-DIP PROCESS ACCORDING TO ASTM A 153/A 153M, CLASS C.
C. MECHANICAL FASTENERS: CORROSION-RESISTANT COATED, SELF-DRILLING, SELF-THREADING STEEL DRILL SCREWS.
D. INSULATION: ASTM C 665, TYPE I, UNFACED MINERAL-FIBER BLANKETS.
E. GALVANIZING REPAIR PAINT: SSPC-PAINT 20 OR DOD-P-21035.
PART 3 - EXECUTION
3.1 FRAMING
A. INSTALL FRAMING AND ACCESSORIES LEVEL, PLUMB, SQUARE, AND TRUE TO LINE, AND SECURELY FASTENED, ACCORDING TO ASTM C 1007. TEMPORARILY BRACE FRAMING UNTIL ENTIRE INTEGRATED SUPPORTING STRUCTURE HAS BEEN COMPLETED AND PERMANENT CONNECTIONS ARE SECURED.
1. CUT FRAMING MEMBERS BY SAWING OR SHEARING; DO NOT TORCH CUT.
2. FASTEN FRAMING MEMBERS BY WELDING OR SCREW FASTENING.
3. INSTALL INSULATION IN BUILT-UP EXTERIOR FRAMING MEMBERS.
4. FASTEN REINFORCEMENT PLATES OVER WEB PENETRATIONS LARGER THAN STANDARD PUNCHED OPENINGS.
B. ERECTION TOLERANCES: INSTALL COLD-FORMED METAL FRAMING WITH A MAXIMUM VARIATION OF 1/8 INCH IN 10 FEET AND WITH INDIVIDUAL FRAMING MEMBERS NO MORE THAN PLUS OR MINUS 1/8 INCH FROM PLAN LOCATION. CUMULATIVE ERROR SHALL NOT EXCEED MINIMUM FASTENING REQUIREMENTS OF SHEATHING OR OTHER FINISHING MATERIALS.
C. STUDS: INSTALL CONTINUOUS TOP AND BOTTOM TRACKS SECURELY ANCHORED AT CORNERS AND ENDS. SQUARELY SEAT STUDS AGAINST WEBS OF TOP AND BOTTOM TRACKS. SPACE STUDS AS INDICATED, SET PLUMB, ALIGN, AND FASTEN BOTH FLANGES OF STUDS TO TOP AND BOTTOM TRACKS.
1. INSTALL AND FASTEN HORIZONTAL BRIDGING IN STUD SYSTEM, SPACED IN ROWS NOT MORE THAN 48 INCHES APART.
DELETE FIRST SUBPARAGRAPH BELOW IF NOT REQUIRED; DIAGONAL BRACING IS USUALLY LIMITED TO SHEAR WALLS.
2. INSTALL STEEL-SHEET DIAGONAL BRACING STRAPS TO BOTH STUD FLANGES, TERMINATE AT AND FASTEN TO REINFORCED TOP AND BOTTOM TRACK AND ANCHOR TO STRUCTURE.
3. INSTALL MISCELLANEOUS FRAMING AND CONNECTIONS TO PROVIDE A COMPLETE AND STABLE WALL-FRAMING SYSTEM.
DELETE SUBPARAGRAPH BELOW IF NON-LOAD-BEARING, CURTAIN-WALL FRAMING IS NOT REQUIRED.
4. ISOLATE NON-LOAD-BEARING, CURTAIN-WALL FRAMING FROM BUILDING STRUCTURE USING VERTICAL SLIDE CLIPS OR DEFLECTION TRACK TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT.
D. JOISTS: INSTALL AND SECURELY ANCHOR PERIMETER JOIST TRACK SIZED TO MATCH JOISTS. INSTALL JOISTS BEARING ON SUPPORTING FRAMING, BRACE AND REINFORCE, AND FASTEN TO BOTH FLANGES OF JOIST TRACK.
1. INSTALL BRIDGING AND FASTEN BRIDGING AT EACH JOIST INTERSECTION.
2. INSTALL MISCELLANEOUS JOIST FRAMING AND CONNECTIONS, INCLUDING WEB STIFFENERS, CLOSURE PIECES, CLIP ANGLES, CONTINUOUS ANGLES, HOLD-DOWN ANGLES, ANCHORS, AND FASTENERS.
END OF SECTION 054000
'P

SECTION 061053 - MISCELLANEOUS ROUGH CARPENTRY
PART 4 - GENERAL
4.1 SECTION REQUIREMENTS
A. SUBMITTALS: MODEL CODE EVALUATION REPORTS FOR TREATED WOOD.
PART 5 - PRODUCTS
5.1 WOOD PRODUCTS, GENERAL
A. LUMBER: PROVIDE DRESSED LUMBER, S4S, MARKED WITH GRADE STAMP OF INSPECTION AGENCY.
B. ALL LUMBER SHALL BE FIRE RETARDANT TREATED UNLESS NOTED OTHERWISE. MEMBERS SHALL BEAR STAMPING VERIFYING THE SAME.
5.2 TREATED MATERIALS
A. PRESERVATIVE-TREATED MATERIALS: AWPA C2.
1. USE TREATMENT CONTAINING NO ARSENIC OR CHROMIUM.
2. KILN-DRY LUMBER AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
3. MARK LUMBER WITH TREATMENT QUALITY MARK OF AN INSPECTION AGENCY APPROVED BY THE ALSC BOARD OF REVIEW.
B. PROVIDE PRESERVATIVE-TREATED MATERIALS FOR ALL MISCELLANEOUS ROUGH CARPENTRY UNLESS OTHERWISE INDICATED.
C. FIRE-RETARDANT-TREATED MATERIALS: COMPLY WITH PERFORMANCE REQUIREMENTS IN AWPA C20.
1. USE EXTERIOR TYPE FOR EXTERIOR LOCATIONS AND WHERE INDICATED.
2. USE INTERIOR TYPE A, HIGH TEMPERATURE (HT) WHERE INDICATED.
3. USE INTERIOR TYPE A, UNLESS OTHERWISE INDICATED.
4. IDENTIFY WITH APPROPRIATE CLASSIFICATION MARKING OF A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
D. PROVIDE FIRE-RETARDANT TREATED MATERIALS FOR ALL MISCELLANEOUS ROUGH CARPENTRY.
5.3 LUMBER
A. DIMENSION LUMBER:
1. MAXIMUM MOISTURE CONTENT: 15 PERCENT.
SELECT ONE GRADE REQUIREMENT AND ONE OR MORE SPECIES GROUP IN FIRST TWO SUBPARAGRAPHS BELOW DEPENDING ON AVAILABILITY AND SUITABILITY FOR PROJECT.
SPECIES GROUPS IN FIRST SUBPARAGRAPH BELOW ARE LISTED IN ORDER OF DECREASING STRENGTH (EXTREME FIBER IN BENDING).
SELECT ONE OR MORE SPECIES IN FIRST TWO PARAGRAPHS BELOW DEPENDING ON AVAILABILITY AND SUITABILITY FOR PROJECT.
B. EXPOSED BOARDS: HEM-FIR, SELECT MERCHANTABLE OR NO. 1 COMMON: NLGA, WCLIB, OR WWPA15 PERCENT MAXIMUM MOISTURE CONTENT.
C. CONCEALED BOARDS: EASTERN SOFTWOODS, NO. 3 COMMON: NELMA WITH 15 PERCENT MAXIMUM MOISTURE CONTENT.
D. MISCELLANEOUS LUMBER: CONSTRUCTION, OR NO. 2 GRADE WITH 15 PERCENT MAXIMUM MOISTURE CONTENT OF ANY SPECIES. PROVIDE FOR NAILERS, BLOCKING, AND SIMILAR MEMBERS.
5.4 PLYWOOD BACKING PANELS
A. TELEPHONE AND ELECTRICAL EQUIPMENT BACKING PANELS: PLYWOOD, EXPOSURE 1, C-D PLUGGED, FIRE-RETARDANT TREATED, NOT LESS THAN 1/2 INCH THICK.
5.5 FASTENERS
A. FASTENERS: SIZE AND TYPE INDICATED. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153/A 153M.
1. POWER-DRIVEN FASTENERS: CABO NER-272.
PART 6 - EXECUTION
6.1 INSTALLATION
A. SET MISCELLANEOUS ROUGH CARPENTRY TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB, TRUE TO LINE, CUT, AND FITTED. LOCATE NAILERS, BLOCKING, AND SIMILAR SUPPORTS TO COMPLY WITH REQUIREMENTS FOR ATTACHING OTHER CONSTRUCTION.
B. SECURELY ATTACH MISCELLANEOUS ROUGH CARPENTRY TO SUBSTRATES, COMPLYING WITH THE FOLLOWING:

1. TABLE 2305.2, "FASTENING SCHEDULE," IN NEW JERSEY IBC 2006.
END OF SECTION 061053

SECTION 062000 - FINISH CARPENTRY
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: SAMPLES FOR HARDWOOD VENEER PLYWOOD PANELING.
PART 2 - PRODUCTS
2.1 MATERIALS, GENERAL
A. LUMBER: DOC PS 20 AND GRADING RULES OF INSPECTION AGENCIES CERTIFIED BY AMERICAN LUMBER STANDARDS COMMITTEE BOARD OF REVIEW.
B. SOFTWOOD PLYWOOD: DOC PS 1.
C. HARDWOOD PLYWOOD: HPVA HP-1.
D. MDF: ANSI A208.2, GRADE 130, MADE WITH BINDER CONTAINING NO UREA-FORMALDEHYDE RESIN.
E. PARTICLEBOARD: ANSI A208.1, GRADE M-2, MADE WITH BINDER CONTAINING NO UREA-FORMALDEHYDE RESIN.
F. MELAMINE-FACED PARTICLEBOARD: PARTICLEBOARD COMPLYING WITH ANSI A208.1, GRADE M-2, FINISHED ON BOTH FACES WITH THERMALLY FUSED, MELAMINE-IMPREGNATED DECORATIVE PAPER COMPLYING WITH LMA SAT-1.
2.2 EXTERIOR FINISH CARPENTRY
IF RETAINING FIRST PARAGRAPH BELOW, SELECT ONE TEXTURE, GRADE, AND SPECIES.
A. EXTERIOR LUMBER TRIM: SMOOTH-TEXTURED, PREMIUM OR 2 COMMON (STERLING) EASTERN WHITE PINE, EASTERN HEMLOCK-BALSAM FIR-TAMARACK, EASTERN SPRUCE, OR WHITE WOODS.
1. MAXIMUM MOISTURE CONTENT: 19 PERCENT.
B. CELLULAR PVC EXTERIOR TRIM: EXTRUDED, EXPANDED PVC WITH A SMALL-CELL MICROSTRUCTURE, MADE FROM UV- AND HEAT-STABILIZED, RIGID MATERIAL.
1. AVAILABLE PRODUCTS
C. FOAM-PLASTIC MOLDINGS: MOLDED PRODUCT OF SHAPES INDICATED, WITH A TOUGH OUTER SKIN ON EXPOSED SURFACES; FACTORY PRIMED. PRODUCT IS RECOMMENDED BY MANUFACTURER FOR EXTERIOR USE.
1. AVAILABLE PRODUCTS
D. PLYWOOD SIDING: APA-RATED SIDING, 1/2-INCH- THICK, 303-OL, MEDIUM-DENSITY OVERLAY, V-GROOVES AT 6 INCHES O.C
2.3 INTERIOR STANDING AND RUNNING TRIM
A. INTERIOR SOFTWOOD LUMBER TRIM: C SELECT (CHOICE), EASTERN WHITE, IDAHO WHITE, LODGEPOLE, PONDEROSA, OR SUGAR PINE.
1. MAXIMUM MOISTURE CONTENT: 19 PERCENT.
B. INTERIOR HARDWOOD LUMBER TRIM: CLEAR, KILN-DRIED, ALDER OR POPLAR UNLESS INDICATED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.
C. WOOD MOLDINGS: WMMPA WM 4 MADE TO PATTERNS IN WMMPA WM 12 FROM KILN-DRIED STOCK.
1. SOFTWOOD MOLDINGS FOR TRANSPARENT FINISH: EASTERN WHITE, IDAHO WHITE, LODGEPOLE, PONDEROSA, RADIATA, OR SUGAR PINE UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS.
2. MOLDINGS FOR PAINTED FINISH: P-GRADE EASTERN WHITE, IDAHO WHITE, LODGEPOLE, PONDEROSA, RADIATA, OR SUGAR PINE UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS.
3. BASE, SHOW MOLD, CASING, CHAIR RAILS AND STOPS: REFER TO INTERIOR DESIGN DOCUMENTS.
D. FOAM-PLASTIC MOLDINGS: MOLDED PRODUCT OF SHAPES INDICATED, WITH A TOUGH OUTER SKIN ON EXPOSED SURFACES; FACTORY PRIMED. EXPOSED SURFACES SHALL NOT BE SHAPED AFTER MOLDING.
1. AVAILABLE PRODUCTS
2.4 SHELVING AND CLOTHES RODS
A. REFER TO INTERIOR DESIGN DOCUMENTS FOR MANUFACTURER AND SPECIFICATIONS ON CLOSET INTERIORS.
2.5 MISCELLANEOUS MATERIALS
A. FASTENERS FOR EXTERIOR FINISH CARPENTRY: STAINLESS-STEEL.
B. GLUE: ALIPHATIC-RESIN, POLYURETHANE, OR RESORCINOL WOOD GLUE RECOMMENDED BY MANUFACTURER.
1. USE WATERPROOF RESORCINOL GLUE FOR EXTERIOR APPLICATIONS.
C. ADHESIVE FOR CELLULAR PVC TRIM: PRODUCT RECOMMENDED BY TRIM MANUFACTURER.
D. INSTALLATION ADHESIVE FOR FOAM PLASTIC MOLDINGS: PRODUCT RECOMMENDED FOR INDICATED USE BY FOAM PLASTIC MOLDING MANUFACTURER.
E. INSECT SCREENING FOR SOFFIT VENTS: PVC-COATED GLASS-FIBER FABRIC.
PART 3 - EXECUTION
3.1 INSTALLATION
A. CONDITION FINISH CARPENTRY IN INSTALLATION AREAS FOR 24 HOURS BEFORE INSTALLING.
B. PRIME AND BACKPRIME LUMBER FOR PAINTED FINISH EXPOSED ON THE EXTERIOR.
C. INSTALL FINISH CARPENTRY LEVEL, PLUMB, TRUE, AND ALIGNED WITH ADJACENT MATERIALS. SCRIBE AND CUT TO FIT ADJOINING WORK. REFINISH AND SEAL CUTS.
D. INSTALL STANDING AND RUNNING TRIM WITH MINIMUM NUMBER OF JOINTS PRACTICAL, USING FULL-LENGTH PIECES FROM MAXIMUM LENGTHS OF LUMBER AVAILABLE. STAGGER JOINTS IN ADJACENT AND RELATED TRIM. COPE AT RETURNS AND MITER AT CORNERS.
E. NAIL SIDING AT EACH STUD. DO NOT ALLOW NAILS TO PENETRATE MORE THAN ONE THICKNESS OF SIDING, UNLESS OTHERWISE RECOMMENDED BY SIDING MANUFACTURER. SEAL JOINTS AT INSIDE AND OUTSIDE CORNERS AND AT TRIM LOCATIONS.
F. SELECT AND ARRANGE PANELING FOR BEST MATCH OF ADJACENT UNITS. INSTALL WITH UNIFORM TIGHT JOINTS.
END OF SECTION 062000

SECTION 072100 - THERMAL INSULATION
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data.
B. Surface-Burning Characteristics: ASTM E 84, and as follows:
Revise first subparagraph below to suit requirements of authorities having jurisdiction. The International Building Code also requires a flame-spread index of 25 or less for concealed insulation in Types I and II construction.
1. Flame-Spread Index: 25 or less where exposed; otherwise, as indicated in Part 2 "Insulation Products" Article.
2. Smoked-Developed Index: 450 or less.
PART 2 - PRODUCTS
2.1 INSULATION PRODUCTS
Usually select Type IV in first paragraph below if extruded polystyrene is used.
A. Mineral-Fiber-Blanket Insulation: ASTM C 665, Type I, unfaced with fibers manufactured from glass, slag wool, or rock wool, with flame-spread index of 25 or less.
2.2 ACCESSORIES
If retaining first paragraph below, select first water-vapor transmission requirement if sheet radiant barrier also serves as vapor barrier, second requirement if not.
A. None.
6-mil (0.15-mm) thickness in first paragraph below applies to unreinforced polyethylene.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install insulation in areas and in thicknesses indicated or required to produce R-values indicated. Cut and fit tightly around obstructions and fill voids with insulation.
B. Except for loose-fill insulation and insulation that is friction fitted in stud cavities, bond units to substrate with adhesive or use mechanical anchorage to provide permanent placement and support of units.
C. Place loose-fill insulation to comply with ASTM C 1015.
1. Comply with the CIMA's Special Report #3, "Standard Practice for Installing Cellulose Insulation."
D. Extend vapor retarder to extremities of areas to be protected from vapor transmission. Secure in place with adhesives or other anchorage. Locate seams at framing members, overlap, and seal with tape.
END OF SECTION 072100

SECTION 078100 - APPLIED FIREPROOFING
PART 7 - GENERAL
7.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA AND RESEARCH/EVALUATION REPORTS.
B. PROVIDE PRODUCTS IDENTICAL TO THOSE TESTED FOR FIRE RESISTANCE PER ASTM E 119 BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
C. PROVIDE PRODUCTS CONTAINING NO DETECTABLE ASBESTOS AS DETERMINED ACCORDING TO THE METHOD SPECIFIED IN 40 CFR 763, SUBPART E, APPENDIX E, SECTION 1, "POLARIZED LIGHT MICROSCOPY."
PART 8 - PRODUCTS
8.1 CONCEALED APPLIED FIREPROOFING
IF EXPOSED FIREPROOFING IS REQUIRED, RETAIN THIS ARTICLE AND REVISE TITLE AND PHYSICAL PROPERTIES TO SUIT PRODUCTS SELECTED AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
A. PRODUCTS:
1. MONOKOTE BY WR GRACE AND CO.
B. MATERIAL COMPOSITION: AS FOLLOWS:
1. CEMENTITIOUS FIREPROOFING CONSISTING OF FACTORY-MIXED, DRY FORMULATION OF GYPSUM OR PORTLAND CEMENT BINDERS, ADDITIVES, AND LIGHTWEIGHT MINERAL OR SYNTHETIC AGGREGATES MIXED WITH WATER AT PROJECT SITE.
2. SPRAYED-FIBER FIREPROOFING CONSISTING OF FACTORY-MIXED, DRY FORMULATION OF INORGANIC BINDERS, MINERAL FIBERS, FILLERS, AND ADDITIVES MIXED WITH WATER AT SPRAY NOZZLE.
C. PHYSICAL PROPERTIES: MINIMUM VALUES UNLESS OTHERWISE INDICATED, OR HIGHER VALUES REQUIRED TO ATTAIN DESIGNATED FIRE-RESISTANCE RATINGS, AS FOLLOWS:
1. DRY DENSITY: 15 LB/CU. FT., OR GREATER IF REQUIRED TO ATTAIN FIRE-RESISTANCE RATINGS INDICATED, PER ASTM E 605 OR AWCI TECHNICAL MANUAL 12-A, SECTION 5.4.5, "DISPLACEMENT METHOD."
2. BOND STRENGTH: 150 LBF/SQ. FT. PER ASTM E 736.
3. CORROSION RESISTANCE: NO EVIDENCE OF CORROSION PER ASTM E 937.
4. EFFECT OF IMPACT ON BONDING: NO CRACKING, SPALLING, OR DELAMINATION PER ASTM E 760.
5. AIR EROSION: MAXIMUM WEIGHT LOSS OF 0.025 G/SQ. FT. IN 24 HOURS PER ASTM E 859.
D. AUXILIARY MATERIALS: PROVIDE AUXILIARY MATERIALS THAT ARE COMPATIBLE WITH APPLIED FIREPROOFING AND SUBSTRATES AND ARE APPROVED BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION FOR USE IN FIRE-RESISTANCE DESIGNS INDICATED. CONSULT MANUFACTURERS FOR REQUIREMENTS AND RECOMMENDATIONS FOR PRODUCTS IN SUBPARAGRAPH BELOW.
1. SEALER/TOPCOAT FOR SPRAYED-FIBER FIREPROOFING: PROTECTIVE COATING RECOMMENDED IN WRITING BY FIREPROOFING MANUFACTURER.
PART 9 - EXECUTION
9.1 INSTALLATION
A. CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR BOND OF FIREPROOFING, INCLUDING DIRT, OIL, GREASE, RELEASE AGENTS, ROLLING COMPOUNDS, LOOSE MILL SCALE, AND INCOMPATIBLE PRIMERS, PAINTS, AND ENCAPSULANTS.
B. EXTEND FIREPROOFING IN FULL THICKNESS OVER ENTIRE AREA OF EACH SUBSTRATE TO BE PROTECTED. UNLESS OTHERWISE RECOMMENDED IN WRITING BY FIREPROOFING MANUFACTURER, INSTALL BODY OF FIREPROOFING IN A SINGLE COURSE. SPRAY APPLY FIREPROOFING TO MAXIMUM EXTENT POSSIBLE.
C. APPLY FIREPROOFING IN THICKNESSES AND DENSITIES NOT LESS THAN THOSE REQUIRED TO ACHIEVE FIRE-RESISTANCE RATINGS DESIGNATED FOR EACH CONDITION, BUT NOT LESS THAN 0.375-INCH THICKNESS, AND 15-LB/CU. FT DRY DENSITY.
D. APPLY SEALER/TOPCOAT TO SPRAYED-FIBER FIREPROOFING.
REVISE PARAGRAPH BELOW IF CONTRACTOR IS REQUIRED TO PROVIDE TESTING. INSERT SPECIFIC TESTING REQUIREMENTS TO COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
E. TESTING AGENCY: OWNER WILL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TEST REPORTS.
END OF SECTION 078100

SECTION 078413 - PENETRATION FIRESTOPPING
PART 10 - GENERAL
10.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA AND PRODUCT CERTIFICATES SIGNED BY MANUFACTURER CERTIFYING THAT PRODUCTS FURNISHED COMPLY WITH REQUIREMENTS.
B. PROVIDE FIRESTOPPING SYSTEMS WITH FIRE-RESISTANCE RATINGS INDICATED BY REFERENCE TO UL DESIGNATIONS AS LISTED IN ITS "FIRE RESISTANCE DIRECTORY," OR TO DESIGNATIONS OF ANOTHER TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
C. PROVIDE THROUGH-PENETRATION FIRESTOPPING SYSTEMS WITH F-RATINGS INDICATED, AS DETERMINED ACCORDING TO ASTM E 814, BUT NOT LESS THAN FIRE-RESISTANCE RATING OF CONSTRUCTION PENETRATED.
DELETE SUBPARAGRAPH BELOW IF NO T-RATINGS ARE REQUIRED. T-RATINGS ARE GENERALLY ONLY REQUIRED WHERE FIRESTOPPING IS EXPOSED IN AN OCCUPIABLE SPACE. IF T-RATINGS ARE REQUIRED, SHOW LOCATIONS ON DRAWINGS.
1. PROVIDE THROUGH-PENETRATION FIRESTOPPING SYSTEMS WITH T-RATINGS AS WELL AS F-RATINGS, AS DETERMINED ACCORDING TO ASTM E 814, WHERE INDICATED.
D. FOR EXPOSED FIRESTOPPING, PROVIDE PRODUCTS WITH FLAME-SPREAD INDEXES OF LESS THAN 25 AND SMOKE-DEVELOPED INDEXES OF LESS THAN 450, AS DETERMINED ACCORDING TO ASTM E 84.
PART 11 - PRODUCTS
11.1 FIRESTOP SYSTEMS
A. ANY THROUGH-PENETRATION FIRESTOP SYSTEM THAT IS CLASSIFIED BY UL FOR THE APPLICATION AND WITH F-RATING INDICATED MAY BE USED.
B. UL-CLASSIFIED SYSTEM DESIGNATIONS ARE INDICATED ON DRAWINGS.
SELECT EITHER PARAGRAPH ABOVE OR APPLICABLE PARAGRAPHS BELOW FOR APPLICATIONS REQUIRED.
PART 12 - EXECUTION
12.1 INSTALLATION
A. INSTALL FIRESTOPPING SYSTEMS TO COMPLY WITH REQUIREMENTS LISTED IN TESTING AGENCY'S DIRECTORY FOR INDICATED FIRE-RESISTANCE RATING.
DELETE PARAGRAPH AND SUBPARAGRAPHS BELOW IF LABELS ARE NOT REQUIRED.
B. IDENTIFICATION: IDENTIFY THROUGH-PENETRATION FIRESTOP SYSTEMS WITH PERMANENT LABELS ATTACHED TO SURFACES ADJACENT TO FIRESTOP SYSTEMS SO THAT LABELS WILL BE VISIBLE TO ANYONE SEEKING TO REMOVE PENETRATING ITEMS OR FIRESTOP SYSTEMS. INCLUDE THE FOLLOWING INFORMATION ON LABELS:
1. THE WORDS "WARNING - THROUGH-PENETRATION FIRESTOP SYSTEM - DO NOT DISTURB."
2. CLASSIFICATION/LISTING DESIGNATION OF APPLICABLE TESTING AND INSPECTING AGENCY.
3. THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER'S NAME AND PRODUCT NAME.
END OF SECTION 078413

SECTION 079200 - JOINT SEALANTS
PART 13 - GENERAL
13.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA AND COLOR SAMPLES.
B. ENVIRONMENTAL LIMITATIONS: DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT SEALANT MANUFACTURER OR ARE BELOW 40 DEG F.
PART 14 - PRODUCTS
14.1 JOINT SEALANTS
A. COMPATIBILITY: PROVIDE JOINT SEALANTS, JOINT FILLERS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER SERVICE AND APPLICATION CONDITIONS.
B. SEALANT FOR USE IN BUILDING EXPANSION JOINTS:
1. SINGLE-COMPONENT, NEUTRAL-CURING SILICONE SEALANT, ASTM C 920, TYPE S; GRADE NS; CLASS 25; USES T, M, AND O, WITH THE ADDITIONAL CAPABILITY TO WITHSTAND [50 PERCENT MOVEMENT IN BOTH EXTENSION AND COMPRESSION FOR A TOTAL OF 100 PERCENT MOVEMENT] [100 PERCENT MOVEMENT IN EXTENSION AND 50 PERCENT MOVEMENT IN COMPRESSION FOR A TOTAL OF 150 PERCENT MOVEMENT].
C. SEALANT FOR GENERAL EXTERIOR USE WHERE ANOTHER TYPE IS NOT SPECIFIED[, ONE OF THE FOLLOWING]:
RETAIN ONE OR MORE OF THREE SUBPARAGRAPHS BELOW.
1. SINGLE-COMPONENT, NONSAG POLYSULFIDE SEALANT, ASTM C 920, TYPE S; GRADE NS; CLASS 12-1/2; USES NT, M, G, A, AND O.
2. SINGLE-COMPONENT, NEUTRAL-CURING SILICONE SEALANT, ASTM C 920, TYPE S; GRADE NS; CLASS 25; USES T, NT, M, G, A, AND O.
3. SINGLE-COMPONENT, NONSAG URETHANE SEALANT, ASTM C 920, TYPE S; GRADE NS; CLASS 25; AND USES NT, M, A, AND O.
RETAIN FIRST TWO PARAGRAPHS BELOW FOR TRAFFIC BEARING JOINTS IF ANY.
D. SEALANT FOR EXTERIOR TRAFFIC-BEARING JOINTS, WHERE SLOPE PRECLUDES USE OF POURABLE SEALANT:
1. SINGLE-COMPONENT, NONSAG URETHANE SEALANT, ASTM C 920, TYPE S; GRADE NS; CLASS 25; USES T, NT, M, G, A, AND O.
E. SEALANT FOR EXTERIOR TRAFFIC-BEARING JOINTS, WHERE SLOPE ALLOWS USE OF POURABLE SEALANT:
1. SINGLE-COMPONENT, POURABLE URETHANE SEALANT, ASTM C 920, TYPE S; GRADE P; CLASS 25; USES T, M, G, A, AND O.
F. SEALANT FOR USE IN INTERIOR JOINTS IN CERAMIC TILE AND OTHER HARD SURFACES IN KITCHENS AND TOILET ROOMS AND AROUND PLUMBING FIXTURES:
1. SINGLE-COMPONENT, MILDEW-RESISTANT SILICONE SEALANT, ASTM C 920, TYPE S; GRADE NS; CLASS 25; USES NT, G, A, AND O; FORMULATED WITH FUNGICIDE.
G. SEALANT FOR INTERIOR USE AT PERIMETERS OF DOOR AND WINDOW FRAMES:
1. LATEX SEALANT, SINGLE-COMPONENT, NONSAG, MILDEW-RESISTANT, PAINTABLE, ACRYLIC-EMULSION SEALANT COMPLYING WITH ASTM C 834.
H. ACOUSTICAL SEALANT[FOR EXPOSED INTERIOR JOINTS]:
1. NONSAG, PAINTABLE, NONSTAINING, LATEX SEALANT COMPLYING WITH ASTM C 834.
RETAIN LAST PARAGRAPH ABOVE AND POSSIBLY PARAGRAPH BELOW IF ACOUSTICAL ASSEMBLIES ARE USED.
I. ACOUSTICAL SEALANT FOR CONCEALED JOINTS:
1. NONDRYING, NONHARDENING, NONSKINNING, NONSTAINING, GUNNABLE, SYNTHETIC-RUBBER SEALANT RECOMMENDED FOR SEALING INTERIOR CONCEALED JOINTS TO REDUCE TRANSMISSION OF AIRBORNE SOUND.
14.2 JOINT-SEALANT BACKING
A. GENERAL: PROVIDE SEALANT BACKINGS OF MATERIAL AND TYPE THAT ARE NONSTAINING; ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOINT FILLERS; AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER.
B. CYLINDRICAL SEALANT BACKINGS: ASTM C 1330, OF SIZE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE.
C. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT.
PART 15 - EXECUTION
15.1 INSTALLATION
A. COMPLY WITH ASTM C 1193.
B. COMPLY WITH ASTM C 919 FOR USE OF JOINT SEALANTS IN ACOUSTICAL APPLICATIONS.
END OF SECTION 079200

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA AND SHOP DRAWINGS.
B. COMPLY WITH ANSI/SDI A250.8.
C. FIRE-RATED DOORS AND FRAMES: LABELED BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION BASED ON TESTING PER NFPA 252 AT NEUTRAL PRESSURE.
1. AT STAIRS AND EXIT PASSAGEWAYS, PROVIDE DOORS THAT HAVE A TEMPERATURE RISE RATING OF 450 DEG F.
D. SMOKE-CONTROL DOOR ASSEMBLIES: COMPLY WITH NFPA 105 OR UL 1784.
PART 2 - PRODUCTS
2.1 MATERIALS
A. COLD-ROLLED STEEL SHEETS: ASTM A 1008/A 1008M, SUITABLE FOR EXPOSED APPLICATIONS.
B. HOT-ROLLED STEEL SHEETS: ASTM A 1011/A 1011M, FREE OF SCALE, PITTING, OR SURFACE DEFECTS.
C. METALLIC-COATED STEEL SHEET: ASTM A 653/A 653M, WITH G40A40 METALLIC COATING.
RETAIN FIRST PARAGRAPH BELOW, DESCRIBING ELECTROLYTIC ZINC-COATED STEEL, FOR FRAME ANCHORS ONLY.
D. FRAME ANCHORS: ASTM A 591/A 591M, 4OZ COATING DESIGNATION; MILL PHOSPHATIZED.
1. FOR ANCHORS BUILT INTO EXTERIOR WALLS, SHEET STEEL COMPLYING WITH ASTM A 1008/A 1008M OR ASTM A 1011/A 1011M, HOT-DIP GALVANIZED ACCORDING TO ASTM A 153/A 153M, CLASS B.
2. USE CONCEALED FASTENERS FOR ALL FRAMES.
E. INSERTS, BOLTS, AND FASTENERS: HOT-DIP GALVANIZED ACCORDING TO ASTM A 153/A 153M.
2.2 HOLLOW METAL DOORS AND FRAMES
A. PRODUCTS:
1. PIONEER DOORS AND FRAMES.
B. DOORS: COMPLYING WITH ANSI 250.8 FOR LEVEL AND MODEL AND ANSI A250.4 FOR PHYSICAL-ENDURANCE LEVEL INDICATED, 1-3/4 INCHES THICK UNLESS OTHERWISE INDICATED.
FULL FLUSH ALLOWS VISIBLE SEAMS ON EDGES OF DOORS; SEAMLESS DOES NOT.
1. INTERIOR DOORS: MODEL 1 (TYPES AS SHOWN IN THE CONSTRUCTION DOCUMENTS. METALLIC-COATED STEEL SHEET FACES.
2. EXTERIOR DOORS: MODEL 1 (FULL FLUSH, METALLIC-COATED STEEL SHEET FACES.
RETAIN FIRST SUBPARAGRAPH FOR THERMAL-RATED DOORS. VERIFY R-VALUE WITH MANUFACTURERS.
A. THERMAL-RATED (INSULATED) DOORS: WHERE INDICATED, PROVIDE DOORS WITH THERMAL-RESISTANCE VALUE (R-VALUE) OF NOT LESS THAN 4.0 DEG F X H X SQ. FT./BTU WHEN TESTED ACCORDING TO ASTM C 1363.
3. HARDWARE REINFORCEMENT: FABRICATE ACCORDING TO ANSI/SDI A250.6 WITH REINFORCEMENT PLATES FROM SAME MATERIAL AS DOOR FACE SHEETS.
C. FRAMES: ANSI A250.8; CONCEAL FASTENINGS UNLESS OTHERWISE INDICATED. PROVIDE FIRE RATED FRAMES IN LOCATIONS OF PROTECTED OPENINGS.
1. STEEL SHEET THICKNESS FOR INTERIOR DOORS: 0.053 INCH.
2. STEEL SHEET THICKNESS FOR EXTERIOR DOORS: 0.067 INCH.
3. FABRICATE INTERIOR FRAMES WITH MITERED OR COPED AND CONTINUOUSLY WELDED CORNERS.
4. FABRICATE EXTERIOR FRAMES FROM METALLIC-COATED STEEL SHEET, WITH MITERED OR COPED AND CONTINUOUSLY WELDED CORNERS.
5. HARDWARE REINFORCEMENT: FABRICATE ACCORDING TO ANSI/SDI A250.6 WITH REINFORCEMENT PLATES FROM SAME MATERIAL AS FRAMES.
6. FRAME ANCHORS: NOT LESS THAN 0.042 INCH THICK.
D. GLAZING STOPS: NON-REMOVABLE STOPS ON OUTSIDE OF EXTERIOR DOORS AND ON SECURE SIDE OF INTERIOR DOORS; SCREW-APPLIED, REMOVABLE, GLAZING STOPS ON INSIDE, FABRICATED FROM SAME MATERIAL AS DOOR FACE SHEET IN WHICH THEY ARE INSTALLED.
E. DOOR LOUVERS: SIGHT PROOF PER SDI 111C.
1. FIRE-RATED AUTOMATIC LOUVERS: ACTUATED BY FUSIBLE LINKS AND LISTED AND LABELED.
F. DOOR SILENCERS: THREE ON STRIKE JAMBS OF SINGLE-DOOR FRAMES AND TWO ON HEADS OF DOUBLE-DOOR FRAMES.
G. GROUT GUARDS: PROVIDE WHERE MORTAR MIGHT OBSTRUCT HARDWARE OPERATION.
H. PREPARE DOORS AND FRAMES TO RECEIVE MORTISED AND CONCEALED HARDWARE ACCORDING TO ANSI A250.6 AND ANSI A115 SERIES STANDARDS.
I. REINFORCE DOORS AND FRAMES TO RECEIVE SURFACE-APPLIED HARDWARE.
J. PRIME FINISH: MANUFACTURER'S STANDARD, FACTORY-APPLIED COAT OF LEAD- AND CHROMATE-FREE PRIMER COMPLYING WITH ANSI/SDI A250.10 ACCEPTANCE CRITERIA.
PART 3 - EXECUTION
3.1 INSTALLATION
A. INSTALL HOLLOW METAL FRAMES TO COMPLY WITH ANSI/SDI A250.11.
1. FIRE-RATED FRAMES: INSTALL ACCORDING TO NFPA 80.
B. INSTALL DOORS TO PROVIDE CLEARANCES BETWEEN DOORS AND FRAMES AS INDICATED IN ANSI/SDI A250.11.
C. PRIME-COAT TOUCHUP: IMMEDIATELY AFTER ERECTION, SAND SMOOTH RUSTED OR DAMAGED AREAS OF PRIME COAT AND APPLY TOUCHUP OF COMPATIBLE AIR-DRYING RUST-INHIBITIVE PRIMER. USE GALVANIZING REPAIR PAINT FOR METALLIC COATED SURFACES.
END OF SECTION 081113

SECTION 081416 - FLUSH WOOD DOORS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: SAMPLES FOR FACTORY-FINISHED DOORS.
B. QUALITY STANDARD: WDMA I.S.1-A.
C. FIRE-RATED WOOD DOORS: LABELED BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION BASED ON TESTING PER NFPA 252 AT NEUTRAL PRESSURE.
1. AT STAIRS AND EXIT PASSAGEWAYS, PROVIDE DOORS THAT HAVE A TEMPERATURE RISE RATING OF 450 DEG F .
VERIFY AVAILABILITY OF CERTIFICATION IN PARAGRAPH BELOW WITH MANUFACTURERS SELECTED BEFORE RETAINING.
D. FOREST CERTIFICATION: PROVIDE DOORS PRODUCED FROM WOOD OBTAINED FROM FORESTS CERTIFIED BY AN FSC-ACCREDITED CERTIFICATION BODY TO COMPLY WITH FSC STD-01-001, "FSC PRINCIPLES AND CRITERIA FOR FOREST STEWARDSHIP."
PART 2 - PRODUCTS
2.1 DOOR CONSTRUCTION, GENERAL
A. WDMA I.S.1-A PERFORMANCE GRADE:
1. HEAVY DUTY UNLESS OTHERWISE INDICATED.
B. PARTICLEBOARD-CORE DOORS: PROVIDE STRUCTURAL COMPOSITE LUMBER CORES INSTEAD OF PARTICLEBOARD CORES FOR DOORS.
C. FIRE-PROTECTION-RATED DOORS: PROVIDE CORE SPECIFIED OR MINERAL CORE AS NEEDED TO PROVIDE FIRE-PROTECTION RATING INDICATED. PROVIDE THE FOLLOWING FOR MINERAL-CORE DOORS:
1. COMPOSITE BLOCKING WHERE REQUIRED TO ELIMINATE THROUGH-BOLTING HARDWARE.
2. LAMINATED-EDGE CONSTRUCTION.
3. FORMED-STEEL EDGES AND ASTRAGALS FOR PAIRS OF DOORS.
2.2 FLUSH WOOD DOORS
A. DOORS FOR TRANSPARENT FINISH:
1. INTERIOR SOLID-CORE DOORS: PREMIUM GRADE, SEVEN-PLY, STRUCTURAL COMPOSITE LUMBER CORES.
A. FACES: GRADE A ROTARY-CUT SELECT WHITE BIRCH.
B. VENEER MATCHING: BOOK AND BALANCE MATCH.
C. CONTINUOUS MATCHING FOR DOORS WITH TRANSOMS.
2.3 LOUVERS AND LIGHT FRAMES
A. LIGHT FRAMES: WOOD BEADS OF SAME SPECIES AS DOOR FACES.
1. AT FIRE-RATED DOORS PROVIDE WOOD-VENEERED BEADS APPROVED FOR USE IN DOORS OF FIRE-PROTECTION RATING INDICATED.
2.4 FABRICATION AND FINISHING
A. FACTORY FIT DOORS TO SUIT FRAME-OPENING SIZES INDICATED AND TO COMPLY WITH CLEARANCES SPECIFIED.
B. FACTORY MACHINE DOORS FOR HARDWARE THAT IS NOT SURFACE APPLIED. LOCATE HARDWARE TO COMPLY WITH DHI-WDHS-3.
C. CUT AND TRIM OPENINGS TO COMPLY WITH REFERENCED STANDARDS.
1. TRIM LIGHT OPENINGS WITH MOLDINGS INDICATED.
2. FACTORY INSTALL GLAZING IN DOORS INDICATED TO BE FACTORY FINISHED.
3. FACTORY INSTALL LOUVERS IN PREPARED OPENINGS.
RETAINING REQUIREMENTS IN PARAGRAPH BELOW WILL HELP IMPROVE INDOOR AIR QUALITY BY LOWERING THE USE OF VOC'S AT THE PROJECT SITE.
D. FACTORY FINISH DOORS INDICATED FOR TRANSPARENT FINISH WITH STAIN AND MANUFACTURER'S STANDARD FINISH COMPLYING WITH WDMA SYSTEM TR-4, CONVERSION VARNISH FOR GRADE SPECIFIED FOR DOORS.
PART 3 - EXECUTION
3.1 INSTALLATION
A. INSTALL DOORS TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, WDMA I.S.1-A AND AS INDICATED.
1. INSTALL FIRE-RATED DOORS TO COMPLY WITH NFPA 80.
DELETE OPTIONS IN FIRST PARAGRAPH BELOW IF FACTORY FITTING AND FACTORY MACHINING WERE RETAINED IN PART 2.
B. ALIGN AND FIT DOORS IN FRAMES WITH UNIFORM CLEARANCES AND BEVELS. MACHINE DOORS FOR HARDWARE. SEAL CUT SURFACES AFTER FITTING AND MACHINING.
C. CLEARANCES: AS FOLLOWS, UNLESS OTHERWISE INDICATED:
1. 1/8 INCH AT HEADS, JAMBS, AND BETWEEN PAIRS OF DOORS.
2. 1/8 INCH FROM BOTTOM OF DOOR TO TOP OF DECORATIVE FLOOR FINISH OR COVERING.
3. 1/4 INCH FROM BOTTOM OF DOOR TO TOP OF THRESHOLD.
4. COMPLY WITH NFPA 80 FOR FIRE-RATED DOORS.
DELETE PARAGRAPH BELOW IF FACTORY FINISHING WAS NOT RETAINED IN PART 2.
D. REPAIR, REFINISH, OR REPLACE FACTORY-FINISHED DOORS DAMAGED DURING INSTALLATION, AS DIRECTED BY ARCHITECT.
END OF SECTION 081416

SECTION 087100 - DOOR HARDWARE
PART 4 - GENERAL
4.1 SECTION REQUIREMENTS
RETAIN FIRST PARAGRAPH BELOW IF AN ALLOWANCE IS USED.
A. ALLOWANCES: PROVIDE HARDWARE UNDER HARDWARE ALLOWANCE IN DIVISION 01 SECTION "PRICE AND PAYMENT PROCEDURES."
B. SUBMITTALS: HARDWARE SCHEDULE AND KEYING SCHEDULE.
C. DELIVER KEYS TO OWNER. COORDINATE WITH OWNER ON MASTER KEYING TO COORDINATE WITH EXISTING LOCKING SYSTEMS.
D. FIRE-RESISTANCE-RATED ASSEMBLIES: PROVIDE PRODUCTS THAT COMPLY WITH NFPA 80 AND ARE LISTED AND LABELED BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION FOR APPLICATIONS INDICATED. ON EXIT DEVICES PROVIDE LABEL INDICATING "FIRE EXIT HARDWARE."
PART 5 - PRODUCTS
5.1 HARDWARE
A. MANUFACTURERS:
1. AS NOTED ON DRAWINGS. COORDINATE WITH OWNER'S LOCKSMITH.
B. HINGES:
SELECT FROM OPTIONS IN FIVE SUBPARAGRAPHS BELOW.
1. STAINLESS-STEEL HINGES WITH STAINLESS-STEEL PINS FOR EXTERIOR.
2. NONREMOVABLE HINGE PINS FOR EXTERIOR AND PUBLIC INTERIOR EXPOSURE.
3. BALL-BEARING HINGES FOR DOORS WITH CLOSERS AND ENTRY DOORS.
4. 2 HINGES FOR 1-3/8-INCH- THICK WOOD DOORS.
5. 3 HINGES FOR 1-3/4-INCH- THICK DOORS 90 INCHES OR LESS IN HEIGHT; 4 HINGES FOR DOORS MORE THAN 90 INCHES IN HEIGHT.
C. LOCKSETS AND LATCHSETS:
1. BHMA A156.2, SERIES 4000, GRADE 3 FOR BORED LOCKS AND LATCHES.
2. BHMA A156.3, GRADE 1 FOR EXIT DEVICES.
3. BHMA A156.5, GRADE 2 FOR AUXILIARY LOCKS.
4. BHMA A156.12, SERIES 5000, GRADE 2 FOR INTERCONNECTED LOCKS AND LATCHES.
5. BHMA A156.13, SERIES 1000, GRADE 2 FOR MORTISE LOCKS AND LATCHES.
6. ADA COMPLIANT LEVER HANDLES ON LOCKSETS AND LATCHSETS.
7. PROVIDE TRIM ON EXIT DEVICES MATCHING LOCKSETS.
D. KEY LOCKS TO OWNER'S EXISTING MASTER-KEY SYSTEM.
1. CYLINDERS WITH SIX-PIN TUMBLERS AND REMOVABLE CORES.
2. PROVIDE CONSTRUCTION KEYING.
3. PROVIDE KEY CONTROL SYSTEM, INCLUDING CABINET.
E. CLOSERS:
SELECT FROM OPTIONS IN TWO SUBPARAGRAPHS BELOW.
1. MOUNT CLOSERS ON INTERIOR SIDE (ROOM SIDE) OF DOOR OPENING, UNLESS INDICATED OTHERWISE. PROVIDE REGULAR-ARM, PARALLEL-ARM, OR TOP-JAMB-MOUNTED CLOSERS AS NECESSARY.
2. ADJUSTABLE DELAYED OPENING (ACCESSIBLE TO PEOPLE WITH DISABILITIES) FEATURE ON CLOSERS.
F. PROVIDE WALL STOPS OR FLOOR STOPS FOR DOORS WITHOUT CLOSERS. IVES 407 ½.
G. PROVIDE HARDWARE FINISHES AS SHOWN ON THE CONSTRUCTION DOCUMENTS.

PART 6 - EXECUTION
6.1 INSTALLATION
A. MOUNT HARDWARE IN LOCATIONS RECOMMENDED BY THE DOOR AND HARDWARE INSTITUTE UNLESS OTHERWISE INDICATED.
END OF SECTION 087100

SECTION 088000 - GLAZING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. SUBMITTALS: [PRODUCT DATA] [AND] [12-INCH- SQUARE SAMPLES].
B. FIRE-RESISTANCE-RATED ASSEMBLIES: PROVIDE PRODUCTS THAT COMPLY WITH NFPA 80 AND ARE LISTED AND LABELED BY A TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION FOR APPLICATIONS INDICATED.
C. SAFETY GLASS: CATEGORY II MATERIALS COMPLYING WITH TESTING REQUIREMENTS IN 16 CFR 1201 AND ANSI Z97.1.
D. GLAZING PUBLICATIONS: COMPLY WITH PUBLISHED RECOMMENDATIONS OF GLASS PRODUCT MANUFACTURERS AND ORGANIZATIONS BELOW, UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED.
1. GANA PUBLICATIONS: [GANA LAMINATED DIVISION'S "LAMINATED GLASS DESIGN GUIDE" AND]GANA'S "GLAZING MANUAL."
2. AAMA PUBLICATIONS: AAMA GDSG-1, "GLASS DESIGN FOR SLOPED GLAZING"; AND AAMA TIR-A7, "SLOPED GLAZING GUIDELINES."
3. IGMA PUBLICATION FOR SLOPED GLAZING: IGMA TB-3001, "SLOPED GLAZING GUIDELINES."
4. IGMA PUBLICATION FOR INSULATING GLASS: SIGMA TM-3000, "GLAZING GUIDELINES FOR SEALED INSULATING GLASS UNITS."
NOT ALL MANUFACTURERS PARTICIPATE IN PROGRAM REFERENCED IN PARAGRAPH BELOW; REFER TO DIRECTORIES OF CERTIFYING ORGANIZATIONS FOR PARTICIPANTS.
E. INSULATING-GLASS CERTIFICATION PROGRAM: PERMANENTLY MARKED WITH CERTIFICATION LABEL OF INSULATING GLASS CERTIFICATION COUNCIL[AND ASSOCIATED LABORATORIES, INC].
PART 2 - PRODUCTS
2.1 GLASS
COPY AND EDIT EACH OF SEVEN PARAGRAPHS IN THIS ARTICLE AS NECESSARY FOR TYPES OF GLASS REQUIRED. FOR TINTED OR COATED GLASS TYPES, INDICATE COLOR.
A. FLOAT GLASS: ASTM C 1036, TYPE I,CLASS 1 (CLEAR) AND QUALITY Q3. ALL GLASS TO BE TEMPERED.
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PART 3 - EXECUTION
3.1 INSTALLATION
A. COMPLY WITH COMBINED RECOMMENDATIONS OF MANUFACTURERS OF GLASS, SEALANTS, GASKETS, AND OTHER GLAZING MATERIALS, UNLESS MORE STRINGENT REQUIREMENTS ARE CONTAINED IN GANA'S "GLAZING MANUAL."
B. SET GLASS LITES IN EACH SERIES WITH UNIFORM PATTERN, DRAW, BOW, AND SIMILAR CHARACTERISTICS.
C. REMOVE NONPERMANENT LABELS, AND CLEAN SURFACES IMMEDIATELY AFTER INSTALLATION.
END OF SECTION 088000

SECTION 092900 - GYPSUM BOARD
PART 16 - GENERAL
16.1 SECTION REQUIREMENTS
A. SUBMITTALS: PRODUCT DATA.
B. FIRE-RESISTANCE-RATED ASSEMBLIES: PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL TO THOSE TESTED IN ASSEMBLIES PER ASTM E 119 BY AN INDEPENDENT TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
C. STC-RATED ASSEMBLIES: PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL TO THOSE TESTED IN ASSEMBLIES PER ASTM E 90 AND CLASSIFIED PER ASTM E 413 BY A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY.
PART 17 - PRODUCTS
17.1 PANEL PRODUCTS
A. PROVIDE IN MAXIMUM LENGTHS AVAILABLE TO MINIMIZE END-TO-END BUTT JOINTS.
B. INTERIOR GYPSUM BOARD: ASTM C 36/C 36M OR ASTM C 1396/C 1396M, IN THICKNESS INDICATED, WITH MANUFACTURER'S STANDARD EDGES. TYPE 'X' UNLESS OTHERWISE INDICATED.
1. PRODUCT: G-P GYPSUM; DENS-SHIELD.
2. EQUAL PRODUCTS AS APPROVED BY THE ARCHITECT.
C. EXTERIOR GYPSUM SOFFIT BOARD: ASTM C 931/C 931M OR ASTM C 1396/C 1396M, IN THICKNESS INDICATED, WITH MANUFACTURER'S STANDARD EDGES. TYPE 'X' UNLESS OTHERWISE INDICATED.
1. PRODUCT: G-P GYPSUM; DENS-GLASS.
2. EQUAL PRODUCTS AS APPROVED BY THE ARCHITECT.
D. WATER-RESISTANT GYPSUM BACKING BOARD: ASTM C 630/C 630M OR ASTM C 1396/C 1396M, IN THICKNESS INDICATED. REGULAR TYPE UNLESS OTHERWISE INDICATED.
1. PRODUCT: G-P GYPSUM; WATER-RESISTANT.
E. GLASS-MAT, WATER-RESISTANT GYPSUM BACKING BOARD: ASTM C 1178/C 1178M, OF THICKNESS INDICATED. REGULAR TYPE UNLESS OTHERWISE INDICATED.
1. PRODUCT: G-P GYPSUM; DENS-SHIELD TILE GUARD.
F. CEMENTITIOUS BACKER UNITS: ANSI A118.9.
17.2 ACCESSORIES
A. TRIM ACCESSORIES: ASTM C 1047, FORMED FROM GALVANIZED OR ALUMINUM-COATED STEEL SHEET, ROLLED ZINC, PLASTIC, OR PAPER-FACED GALVANIZED-STEEL SHEET. FOR EXTERIOR TRIM, USE ACCESSORIES FORMED FROM HOT-DIP GALVANIZED-STEEL SHEET, PLASTIC, OR ROLLED ZINC.
1. PROVIDE CORNERBEAD AT OUTSIDE CORNERS UNLESS OTHERWISE INDICATED.
2. PROVIDE LC-BEAD (J-BEAD) AT EXPOSED PANEL EDGES.
3. PROVIDE CONTROL JOINTS WHERE INDICATED.
B. ALUMINUM ACCESSORIES: EXTRUDED-ALUMINUM ACCESSORIES INDICATED WITH MANUFACTURER'S STANDARD CORROSION-RESISTANT PRIMER.
C. JOINT-TREATMENT MATERIALS: ASTM C 475/C 475M.
1. JOINT TAPE: PAPER UNLESS OTHERWISE RECOMMENDED BY PANEL MANUFACTURER.
2. JOINT COMPOUNDS: SETTING-TYPE COMPOUNDS, DRYING-TYPE, READY-MIXED, ALL-PURPOSE COMPOUNDS, READY-MIXED, COMPOUNDS FOR TOPPING. USE SETTING-TYPE COMPOUNDS AT EXTERIOR SOFFITS.
3. CEMENTITIOUS BACKER UNIT JOINT-TREATMENT MATERIALS: PRODUCTS RECOMMENDED BY CEMENTITIOUS BACKER UNIT MANUFACTURER.
D. ACOUSTICAL SEALANT FOR EXPOSED AND CONCEALED JOINTS: NONSAG, PAINTABLE, NONSTAINING LATEX SEALANT COMPLYING WITH ASTM C 834.
E. SOUND-ATTENUATION BLANKETS: ASTM C 665, TYPE I (UNFACED).
PART 18 - EXECUTION
18.1 INSTALLATION
A. INSTALL GYPSUM BOARD TO COMPLY WITH ASTM C 840.
1. ISOLATE GYPSUM BOARD ASSEMBLIES FROM ABUTTING STRUCTURAL AND MASONRY WORK. PROVIDE EDGE TRIM AND ACOUSTICAL SEALANT.
2. SINGLE-LAYER FASTENING METHODS: FASTEN GYPSUM PANELS TO SUPPORTS WITH SCREWS.
3. MULTILAYER FASTENING METHODS: FASTEN BASE LAYERS AND FACE LAYER SEPARATELY TO SUPPORTS WITH SCREWS.
B. INSTALL CEMENTITIOUS BACKER UNITS TO COMPLY WITH ANSI A108.11.
C. FIRE-RESISTANCE-RATED ASSEMBLIES: COMPLY WITH REQUIREMENTS OF LISTED ASSEMBLIES.
D. FINISHING GYPSUM BOARD: ASTM C 840.
1. AT CONCEALED AREAS, UNLESS A HIGHER LEVEL OF FINISH IS REQUIRED FOR FIRE-RESISTANCE-RATED ASSEMBLIES, PROVIDE LEVEL 1 FINISH: EMBED TAPE AT JOINTS.
2. AT SUBSTRATES FOR TILE, PROVIDE LEVEL 2 FINISH: EMBED TAPE AND APPLY SEPARATE FIRST COAT OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES.
LEVEL 4 IS SUITABLE FOR SURFACES RECEIVING LIGHT-TEXTURED FINISH WALLCOVERINGS AND FLAT PAINTS. IT IS GENERALLY THE STANDARD EXPOSED FINISH.
3. UNLESS OTHERWISE INDICATED, PROVIDE LEVEL 4 FINISH: EMBED TAPE AND APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES.
LEVEL 5 IS SUITABLE FOR SURFACES RECEIVING GLOSS AND SEMIGLOSS ENAMELS AND SURFACES SUBJECT TO SEVERE LIGHTING. IT IS CONSIDERED A HIGH-QUALITY GYPSUM BOARD FINISH.
4. WHERE INDICATED, PROVIDE LEVEL 5 FINISH: EMBED TAPE AND APPLY SEPARATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES. APPLY SKIM COAT TO ENTIRE SURFACE.
E. GLASS-MAT, WATER-RESISTANT BACKING PANELS: FINISH ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
F. CEMENTITIOUS BACKER UNITS: FINISH ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
G. TEXTURE FINISH APPLICATION: MIX AND APPLY FINISH USING POWERED SPRAY EQUIPMENT, TO PRODUCE A UNIFORM TEXTURE FREE OF STARVED SPOTS OR OTHER EVIDENCE OF THIN APPLICATION OR OF APPLICATION PATTERNS.
END OF SECTION 092900

DOOR SCHEDULE

NUMBER	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME MATERIAL	RATING	HARDWARE	NOTES
100	3'-0"	7'-0"	B	WD	HM		2	
102	3'-0"	7'-0"	A	WD/GL	HM		2	
104	3'-0"	7'-0"	B	WD	HM		2	
106	3'-0"	7'-0"	B	WD	HM		2	

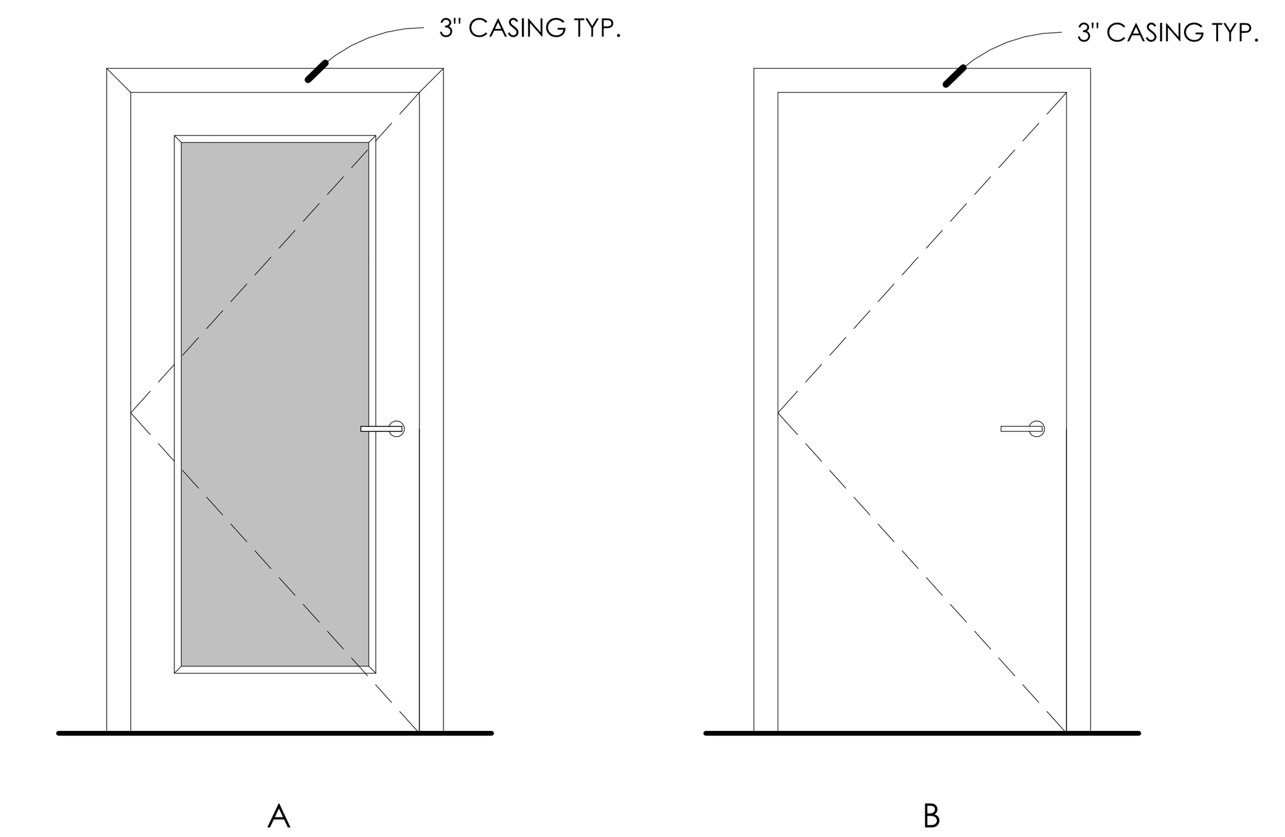
DEDUCT ALT. No. 2: DOOR/FRAME + HDWR FOR DOOR 104 TO BE PROVIDED BY TENANT
1

HARDWARE SCHEDULE

TYPE 1 - ENTRY
LOCKSET: EXISTING TO REMAIN

HINGES: EXISTING TO REMAIN
CLOSER: EXISTING TO REMAIN
WEATHERSTRIPPING: VINYL BULB INSERT
SWEEP: INSERT MOUNTED VINYL SWEEP
STOP: IVES FLOOR MOUNTED
SILENCERS: (1) SET

TYPE 2 - PASSAGE
LOCKSET: SCHLAGE FULL MORTISE LOCKSET W/ ADA COMPLIANT LEVER HANDLE, PASSAGE FUNCTION
HINGES: 5-KNUCKLE MORTISED BALL BEARING HINGES
CLOSER: LCN 4000 SERIES H.D. STOP FACE MOUNTED
WEATHERSTRIPPING: NONE
SWEEP: NONE
STOP: IVES FLOOR MOUNTED
SILENCERS: (1) SET



1 DOOR TYPES
1/2" = 1'-0"

FINISH SCHEDULE

Room Number	Room Name	Floor Finish	Base Finish	Ceiling Finish	Wall Finish North	Wall Finish East	Wall Finish South	Wall Finish West	Comments
100	OPEN OFFICE	CPT01	VN01	EXP	PT01	PT01	PT01	PT01	
101	IT SPACE	"	VN01	EXP	PT01	PT01	PT01	PT01	
102	HUDDLE/ CONFERENCE	"	"	"	"	"	"	"	
103	OFFICE	"	"	"	"	"	"	"	
104	OFFICE	"	"	"	"	"	"	"	
105	OFFICE	"	"	"	"	"	"	"	
106	OFFICE	"	"	"	"	"	"	"	
107	OFFICE	"	"	"	"	"	"	"	
108	LAB SPACE A	EX'G	EX'G	"	MF	"	"	"	
109	LAB STORAGE	EX'G	EX'G	"	"	"	"	"	
110	LAB SPACE B	EX'G	EX'G	"	"	"	MF	"	

1

LIST OF FINISHES

CPT01 MILIKEN MODULAR CARPET TILE, GHOST ARTIST, COLOR BY ARCH
EXP EXISTING EXPOSED CEILING TO REMAIN
MF MODULAR FOLDING WALL PANELS
PT01 PRIME & (2) COATS INTERIOR LATEX PAINT, EGG SHELL FINISH
VN01 JOHNSONITE 4" COVE TILE VINYL BASE TRIM. COLOR BY ARCHITECT

DEDUCT. ALT. No. 3: DELETE CPT01
1

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SIGNATURE SCIENCE
SUITE 201

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EGG HARBOR TOWNSHIP, NJ 08234

RE-BID ISSUE

No.	Description	Date
1	Revision 1	01.23.24

DOOR TYPES & FINISH SCHEDULE

Scale	As indicated
Drawn by	MAC
Date	8.16.23

A3.00

Comission no. 23031

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