PROJECT DESCRIPTION
The project scope consists of selecting demolition lab casework, ceilings, lab gas, and electrical systems. The installation of new full-height partition, fume extraction arm, laser curtain, window shade, and light fixtures in Lab P18-7400A1. The installation of laser curtain and laser shelf in Procedure P18-7203. The installation of window shade in alcove P18-7401N. The installation of new full-height partition, laser curtain, window shade, and light fixtures in Lab P18-7402D2. The modification of existing power locations and HVAC to accommodate removed items and new equipment. Patch and repair interior finishes to match existing. There will be no change in occupancy count and existing exiting will remain.

APPLICABLE CODES
- International Building Code 2021
- International Existing Building Code 2021
- International Mechanical Code 2021
- International Plumbing Code 2021
- International Fire Code 2021
- National Fire Protection Code
- 2021 NFPA 13 Standard for the Installation of Sprinkler Systems
- 2023 NFPA 70 National Electric Code
- 2021 NFPA 72 National Fire Alarm and Signaling Code
- 2017 ICC/ANSI 117.1 Accessible and Usable Buildings and Facilities
- 2017 International Accessibility Code

CH. 9 FIRE PROTECTION SYSTEMS
The building is fully sprinklered in accordance with 903.2 and 903.3.1.1 automatic sprinkler system per NFPA-13 to be modified as required.

CH. 10 MEANS OF EGRESS AND OCCUPANT LOAD
The project scope consists of selecting demolition lab casework, ceilings, lab gas, and electrical systems. The installation of new full-height partition, fume extraction arm, laser curtain, window shade, and light fixtures in Lab P18-7400A1. The installation of laser curtain and laser shelf in Procedure P18-7203. The installation of window shade in alcove P18-7401N. The installation of new full-height partition, laser curtain, window shade, and light fixtures in Lab P18-7402D2. The modification of existing power locations and HVAC to accommodate removed items and new equipment. Patch and repair interior finishes to match existing. There will be no change in occupancy count and existing exiting will remain.

CH. 11 ACCESSIBILITY
Spaces within employee work areas shall only be required to comply with Section 907.5.3.1, 1009 and 1104.3.1. New construction to be designed and constructed so that individuals with disabilities can approach, enter, and exit the work area.

1104.3.1 EMPLOYEE WORK AREAS EXCEPTION 1: COMMON USE PATHS LOCATED WITHIN WORK AREAS THAT ARE LESS THAN 1,000 SF IN SIZE AND DEFINED BY PERMANENTLY INSTALLED PARTITIONS, COUNTERS, CASEWORK, OR FURNISHINGS, SHALL NOT BE REQUIRED TO BE ACCESSIBLE ROUTES.

CH. 10 OCCUPANCY CLASSIFICATION AND USE
Occupancy classification and use remains unchanged.

CH. 5 BUILDING AREA
The existing building area is unchanged. No change in area proposed.

CH. 6 CONSTRUCTION TYPE
The existing building area is unchanged. No change in construction type.

CH. 8 CONSTRUCTION DOCUMENTS

CODE PLAN LEVEL 7

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DEMOGRAPHIC GENERAL NOTES

1. THE CONTRACTOR SHALL:
   a. Coordinate all demolition and phasing efforts with the architect and owner's representative.
   b. Coordinate any disruption of utility services with the architect and owner's representative.
   c. Construct temporary construction partitions within the zone of operations.
   d. Maintain a secure, weather-tight enclosure at all times.
   e. Verify all existing conditions, dimensions and elevations and notify the architect of any discrepancies.
   f. Remove in their entirety all existing walls, doors, windows, and light fixtures.
   g. The owner shall reserve the right to salvage any existing materials not otherwise noted.
   h. Provide protection for all existing building materials and equipment from damage due to any demolition or construction.
   i. Avoid any disturbance of soils within the zone of operations.
   j. Where CMU walls are indicated to be removed, prepare demolition notes to be made.
   k. Verify and maintain the location of existing power, water, and gas services.
   l. Patch floor, wall and ceiling penetrations resulting from removal or re-routing of new or existing piping, ductwork, conduit, and other items, as required to match the existing finish.
   m. Cap all disconnected mechanical piping lines within the zone of operations.
   n. See mechanical and electrical drawings and notes for required for new or existing adjacent surfaces.
   o. Where plaster/stud walls are indicated to be removed, prepare demolition notes to be made.
   p. Where CMU walls are indicated to be removed, prepare demolition notes to be made.
   q. Where plaster/stud walls are indicated to be removed, prepare demolition notes to be made.
   r. Where CMU walls are indicated to be removed, prepare demolition notes to be made.
   s. Where CMU walls are indicated to be removed, prepare demolition notes to be made.
   t. Where CMU walls are indicated to be removed, prepare demolition notes to be made.
   u. Where CMU walls are indicated to be removed, prepare demolition notes to be made.
   v. Where CMU walls are indicated to be removed, prepare demolition notes to be made.
   w. Where CMU walls are indicated to be removed, prepare demolition notes to be made.
   x. Where CMU walls are indicated to be removed, prepare demolition notes to be made.
   y. Where CMU walls are indicated to be removed, prepare demolition notes to be made.
   z. Where CMU walls are indicated to be removed, prepare demolition notes to be made.

DEMOGRAPHIC SHEET NOTES

1. Attention must be given to all demolition sheets.
2. Remove existing wall mounted countertop.
3. Remove existing service chase and supports.
4. Existing service chase to remain.
5. Remove portion of existing VCT flooring.
6. Existing raceway to be relocated in new location.
7. Move and store existing moveable casework, tables, and wall mounted case work from damage due to any demolition or construction.
8. Salvaged and relocated.
9. Avoid any disturbance of soils within the zone of operations.
11. Remove portion of existing VCT flooring.
12. Remove existing service chase and supports.

CONSTRUCTION DOCUMENTS

DEMOGRAPHIC PLAN - LEVEL 7, AREA A

AE NOT IN SCOPE
DEMOLITION NOTES APPLY TO ALL DEMOLITION SHEETS.

A. COORDINATE ALL DEMOLITION AND PHASING EFFORTS WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.

B. COORDINATE ANY DISRUPTION OF UTILITY SERVICES WITH THE ARCHITECT AND OWNER'S REPRESENTATIVE. EVERY EFFORT SHALL BE MADE TO MINIMIZE DISRUPTION OF OWNER'S INFORMATON TECHNOLOGY FOR ITEMS TO BE SALVAGED AND RELOCATED.

C. CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS WITHIN ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING AND/OR CONDITION.

D. MAINTAIN A SECURE, WEATHER-TIGHT ENCLOSURE AT ALL LOCATIONS WITH THE OWNER AND MAINTAIN MEANS OF EGRESS FOR USER'S SAFETY.

E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.

F. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, CASEWORK, TABLES, AND WALL MOUNTED SHELVERS UNITS FOR RE-USE PER OWNER'S DIRECTED BY GEOTECHNICAL ENGINEER.

G. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED.

H. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO EXECUTE CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.

I. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.

J. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED.

K. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING WALL BRACKETS RETURN TO OWNER'S STORAGE. WALL BRACKETS RETURN TO OWNER'S STORAGE. TILES. PRÉPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING EXISTING SERVICE CHASE TO REMAIN.

L. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED,

M. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED,

N. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR INSTRUCTIONS, OR AS REQUIRED FOR NEW WORK.

O. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.

P. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING EXISTING SERVICE CHASE TO REMAIN.

Q. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED,

R. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING EXISTING SERVICE CHASE TO REMAIN.

S. REMOVE EXISTING SERVICE CHASE AND SUPPORT. RETURN TO OWNER'S STORAGE.

T. MOVE AND STORE EXISTING MOVEABLE CASEWORK, TABLES, AND WALL MOUNTED SHELVERS UNITS FOR RE-USE PER OWNER'S DIRECTED BY GEOTECHNICAL ENGINEER.

U. REMOVE EXISTING SERVICE FixTURE/VALVE. REFER TO PLUMBING DRAWINGS FOR EXTENT OF REMOVE EXISTING GAS SERVICE FIXTURE/VALVE. REFER TO PLUMBING DRAWINGS FOR EXTENT OF

V. REMOVE EXISTING ADJUSTABLE SHELVES AND RETURN TO OWNER'S STORAGE.

W. REMOVE EXISTING LIGHT FIXTURE, RETURN TO OWNER'S STORAGE.

X. REMOVE PORTION OF EXISTING ACT GRID AND PATCH AND REPAIR WALL FOR NEW WORK.

Y. REMOVE EXISTING GAS SERVICE FIXTURE/VALVE.

Z. REMOVE EXISTING GAS VALVE TO BE RELOCATED IN NEW.

AA. MOVE AND STORE EXISTING MOVEABLE MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, CASEWORK, TABLES, AND WALL MOUNTED SHELVERS UNITS FOR RE-USE PER OWNER'S DIRECTED BY GEOTECHNICAL ENGINEER.

BB. REMOVE PORTION OF EXISTING VCT FLOORING.

CC. REMOVE EXISTING SERVICE CHASE AND SUPPORT. RETURN TO OWNER'S STORAGE.

DD. REMOVE EXISTING SERVICE FixTURE/VALVE. REFER TO PLUMBING DRAWINGS FOR EXTENT OF

EE. REMOVE EXISTING SERVICE CHASE AND SUPPORT. RETURN TO OWNER'S STORAGE.

FF. REMOVE IN THEIR ENTIRETY ALL EXISTING WALLS, DOORS, MILLWORK, PLUMBING FIXTURES, CEILINGS, SOFFITS, CASEWORK, TABLES, AND WALL MOUNTED SHELVERS UNITS FOR RE-USE PER OWNER'S DIRECTED BY GEOTECHNICAL ENGINEER.

GG. THE OWNER SHALL RESERVE THE RIGHT TO SALVAGE ANY EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED.

HH. PROVIDE PROTECTION FOR ALL EXISTING BUILDING MATERIALS FROM REMOVAL OR RE-ROUTING OF NEW OR EXISTING PIPING, DUCTWORK, CONDUIT, AND OTHER ITEMS, AS REQUIRED TO EXECUTE CONSTRUCTION-RELATED INCIDENT PERFORMED UNDER THIS CONTRACT.

II. REPAIR OR REPLACE ITEMS THAT ARE DAMAGED AS A RESULT OF DEMOLITION OR CONSTRUCTION TO MATCH EXISTING FINISH AND REQUIRED FOR NEW OR EXISTING ADJACENT SURFACES.

JJ. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS NOTED.

KK. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING EXISTING SERVICE CHASE TO REMAIN.

LL. PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED,

MM. CAP ALL DISCONNECTED MECHANICAL PIPING LINES WITHIN THE PATCH FLOOR, WALL AND CEILING PENETRATIONS RESULTING WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED,

NN. SEE MECHANICAL AND ELECTRICAL DRAWINGS AND NOTES FOR INSTRUCTIONS, OR AS REQUIRED FOR NEW WORK.

OO. AVOID ANY DISTURBANCE OF SOILS WITHIN THE ZONE OF INFLUENCE AROUND EXISTING FOOTINGS AND FLOOR SLABS AS DIRECTED BY GEOTECHNICAL ENGINEER.

PP. WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING EXISTING SERVICE CHASE TO REMAIN.

QQ. WHERE PLASTER/STUD WALLS ARE INDICATED TO BE REMOVED,

RR. VERIFY AND MAINTAIN THE LOCATION OF EXISTING POWER, WHERE CMU WALLS ARE INDICATED TO BE REMOVED, PREPARE ADJACENT WALLS TO RECEIVE NEW PATCH/FINISH BY REMOVING EXISTING SERVICE CHASE TO REMAIN.

SS. REMOVE EXISTING SERVICE CHASE AND SUPPORT. RETURN TO OWNER'S STORAGE.

TT. MOVE AND STORE EXISTING MOVEABLE CASEWORK, TABLES, AND WALL MOUNTED SHELVERS UNITS FOR RE-USE PER OWNER'S DIRECTED BY GEOTECHNICAL ENGINEER.

UU. REMOVE EXISTING SERVICE FixTURE/VALVE. REFER TO PLUMBING DRAWINGS FOR EXTENT OF

VV. REMOVE EXISTING SERVICE CHASE AND SUPPORT. RETURN TO OWNER'S STORAGE.

WW. REMOVE EXISTING SERVICE FixTURE/VALVE. REFER TO PLUMBING DRAWINGS FOR EXTENT OF

XX. REMOVE EXISTING ADJUSTABLE SHELVES AND RETURN TO OWNER'S STORAGE.

YY. REMOVE EXISTING LIGHT FIXTURE, RETURN TO OWNER'S STORAGE.

ZZ. REMOVE PORTION OF EXISTING ACT GRID AND PATCH AND REPAIR WALL FOR NEW WORK.

AAA. REMOVE EXISTING GAS SERVICE FIXTURE/VALVE.

BBB. REMOVE EXISTING GAS VALVE TO BE RELOCATED IN NEW.
DEMOLITION GENERAL NOTES

1. Coordinate all demolition and phasing efforts with the architect and owner's representative.
2. Maintain a secure, weather-tight enclosure at all times.
3. Coordinate any disruption of utility services with the owner's representative.
4. Construct temporary construction partitions within the zone of demolition.
5. Provide protection for all existing building materials.
6. Maintain fire-resistance-rated separations and finishes as required for new or existing adjacent surfaces.
7. Maintain power, ventilation, and communication and data cables to prevent interruption of their service.
8. Coordinate with the owner for items to be salvaged and relocated.
9. Where CMU walls are indicated to be removed, prepare for repair or replacement.
10. Where plaster/stud walls are indicated to be removed, see mechanical and electrical drawings and notes for further sequencing and scope of work.
11. Avoid any disturbance of soils within the zone of demolition.

DEMOLITION SHEET NOTES

- Remove existing service chase and supports.
- Prepare adjacent walls to receive new patch/finish by removing existing service chase to remain.
- Remove portion of existing VCT flooring.
- Existing gas valve to be relocated in new ductwork, conduit, and other items, as required to execute further sequencing and scope of work.
- Existing raceway to be relocated in new ductwork, conduit, and other items, as required to execute further sequencing and scope of work.
- Move and store existing movable shelving units for re-use per owner's direction.
- Remove existing wall mounted countertop.
- Remove existing service chase and support.
- Existing gas service fixture/valve to be removed.
- Remove existing light fixture, return to owner's storage.
- Remove portion of existing act grid and return to owner's storage.
- Remove existing window blinds and return to owner's storage.
- Remove existing adjustable shelves and return to owner's storage.
- Remove existing adjustable shelves and return to owner's storage.
GENERAL ARCHITECTURAL NOTES

1. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS.

2. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMpressive LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET XX.X.

3. FURNISH AND INSTALL FIRE-TREATED WOOD BLOCKING OR METAL BACKING PLATE IN METAL STUD PARTITIONS FOR THE PROPER ANCHORAGE OF ALL WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, CASEWORK, MILLWORK, WALL-MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, AND OTHER WALL ATTACHED ITEMS.

4. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.

5. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.

1 BLACKOUT LASER CURTAIN WITH VALENCE. BASIS OF DESIGN: KENTEK

2 MANUAL BLACKOUT WINDOW SHADE. BASIS OF DESIGN: KENTEK, FLEX-GUARD REGULAR POWER BLACK

3 REINSTALL SALVAGED WALL STANDARDS AND SHELVING. INSTALL WALL STANDARDS AND SHELVING FROM OWNER’S STOCK AS NEEDED. COORDINATE WITH OWNER ON AVAILABILITY AND SIZING. INSTALL BLOCKING IN WALL AS REQUIRED.

4 PROVIDE WALL MOUNTED DOUBLE CYLINDER RESTRAINT.

5 LAB GAS FIXTURE AT WALL MOUNTED 44" AFF. RE: PLUMBING FOR TYPE AND ROUTING INFORMATION.

6 FUME EXTRACTOR ARM. BASIS OF DESIGN: NEDERMAN BENCHTOP EXTRACTION ARM FX2 75 ORIGINAL

7 LAB GAS FIXTURE AT WALL MOUNTED 84" AFF. RE: PLUMBING FOR TYPE AND ROUTING INFORMATION.

8 RELOCATE SEMI-RECESSED FIRE EXTINGUISHER CABINET

9 EXISTING SERVICE CHASE TO REMAIN.
1. PARTITION TYPES SHALL BE DESIGNATED ON FLOOR PLANS.
2. PROVISIONS SHALL BE MADE AT ALL FULL HEIGHT NON-BEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH MINERAL WOOL INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON SHEET XX.X.
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4. GYPSUM BOARD SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WHERE SHOWN ON DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.
5. SCRIBE GYPSUM WALL BOARD OF WALLS AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND ALL PENETRATIONS.
A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.

B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.

C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.

D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THESMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE.

SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.

E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR ACP WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.

F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES. AT ACOUSTICAL PANEL CEILINGS.

G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES

H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.
A. REFLECTED CEILING PLAN

GENERAL NOTES

B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.

C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM THE FINISH FLOOR OF THE ROOM.

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H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.

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EXISTING EXTERIOR CURTAIN WALL LINE OF EXISTING SILL BELOW
ALUM BRAKE METAL, COLOR TO MATCH EXISTING CURTAIN WALL
MTL STUD FRAMING
WINDOW BLIND SIDE CHANNEL
ALIGN BLACKOUT LASER CURTAIN SEALANT BOTH SIDES, TYP. 1/2" THICK NEOPRENE SPONGE TAPE, COMPRESSED TO A MIN 50%
SEE PLAN FOR WALL TYPE
EXISTING EXTERIOR WINDOW MULLION SEALANT BOTH SIDES, TYP. ALUM BRAKE METAL, COLOR TO MATCH EXISTING CURTAIN WALL
LINE OF SEALANT BELOW EXISTING COUNTERTOP BELOW
SECTION ELEVATION PLAN 39" GAS CYLINDER ALUMINUM WALL BRACKET WITHOUT MESSAGE.
CONTINUOUS 6" X 16 GA. SHEET METAL PLATES ANCHORED TO WALL.
ANCHOR SCREW.
4 7/8" 8 1/4"
SUSPENDED ACOUSTICAL PANEL CEILING CONTINUOUS WALL ANGLE FACE OF WALL - SEE PLAN FOR WALL TYPE FINISH CEILING SEE RCP VERIFY R.O. DIMENSION WITH CABINET MFR.
EXISTING WALL LINE OF GWB ABOVE & BELOW 2 LAYERS OF 5/8" GWB BEHIND CABINET
STEEL STUD SOLID NON-COMBUSTIBLE FILLER CEILING TEE - BEYOND ACOUSTIC CEILING TILE LASER CURTAIN TRACK
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GENERAL NOTES

A. ROOM FINISH SCHEDULE GENERAL NOTES APPLY TO ALL ROOM FINISH SCHEDULE SHEETS.

B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.

C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS. SEE ROOM FINISH SCHEDULE FOR FLOOR AND WALL FINISHES NOT NOTED.

D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.

E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.

FINISH SCHEDULE

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E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THAN ONE-HALF OF A TILE AT ROOM PERIMETER.

F. PATCH VCT FLOORING WITH OWNER'S STOCK.

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SCALE: 1/4" = 1'-0"
A. All fire protection work performed shall comply with all codes, laws and governing.

B. Remove existing sprinkler head(s) in this room. Remove all related piping back to main.

B. The sprinkler design shall be coordinated with all other aspects of the building. To:

3. Refer to the plumbing and mechanical drawings to assess the congestion above access panels. This access space has been designated by the dashed line.

IE: 
- 1/8" / 12" SLOPE

GENERAL SYMBOLS

FP0.1 FIRE PROTECTION SYMBOLS & ABBREVIATIONS

PIPING VALVES AND FITTINGS

PIPING ANNOTATIONS

PROJECT INFORMATION

APPLICABLE CODES

CONSTRUCTION

REVISIONS

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PN 23-159479
LEVEL 07 - FIRE PROTECTION PLAN - AREA B

GENERAL NOTES

1. Sheet No. 07 - Fire Protection Plan
2. Scale: 1/4" = 1'-0"

SHEET NOTES

F1 REVISE FIRE SPRINKLER HEADS IN NEW ROOM LAYOUT.
F2 EXISTING FIRE SPRINKLER LAYOUT TO REMAIN.

LEVEL 07 - FIRE PROTECTION PLAN - AREA B

PN 23-159479

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CONSTRUCTION DOCUMENTS

LEVEL 07 - FIRE PROTECTION PLAN - AREA B

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LEVEL 07 - FIRE PROTECTION PLAN - AREA B

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LEVEL 07 - PLUMBING DEMOLITION PLAN - AREA A

GENERAL NOTES:
A. EXISTING INFORMATION FROM RECORD SET 08/29/08, PLUMBING LEVEL 7.
B. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING; PIPING SIZE, LOCATION, ELEVATION, ROUTING.

SHEET NOTES:
DP1 REMOVE EXISTING GAS AND VAC PIPING IN CEILING AS SHOWN. CAP PIPING AT MAIN.
DP2 REMOVE EXISTING GAS AND VAC PIPING AND VALVES. REFER TO NEW PLANS FOR VALVE RE-INSTALLATION.

SCALE: 1/4" = 1'-0"
GENERAL NOTES
A EXISTING INFORMATION FROM RECORD SET 08/29/08, PLUMBING LEVEL 7.
B CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING; PIPING SIZE, LOCATION, ELEVATION, ROUTING.

SHEET NOTES
DP1 REMOVE EXISTING GAS AND VAC PIPING IN CEILING AS SHOWN. CAP PIPING AT MAIN.
DP2 REMOVE EXISTING GAS AND VAC PIPING AND VALVES. REFER TO NEW PLANS FOR VALVE RE-INSTALLATION.
DP3 EXISTING 2" GAS, 2" VAC, 2" HW, 3" V, 3" W, 2" CW, AND 2" DI UP AND DOWN IN WALL.
DP4 REMOVE EXISTING VAC PIPING AND VALVE. REFER TO NEW PLANS FOR VALVE RE-INSTALLATION.
DP5 REMOVE EXISTING VAC PIPING IN CEILING AS SHOWN. CAP PIPING AT MAIN.
GENERAL NOTES

A. EXISTING INFORMATION FROM RECORD SET 08/29/08, PLUMBING LEVEL 7.

B. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING; PIPING SIZE, LOCATION, ELEVATION, ROUTING.

SHEET NOTES

P1 EXTEND REVISED SERVICES (G, VAC) IN CEILING SPACE, CONNECT TO EXISTING, COORDINATE EXACT DROP LOCATION WITH OUTLET/INLET VALVE LOCATION AT COUNTER.

P2 RELOCATED G OUTLET AND VAC INLET VALVES.

P4 EXTEND REVISED VAC SERVICE IN CEILING SPACE, CONNECT TO EXISTING, COORDINATE EXACT DROP LOCATION WITH INLET VALVE LOCATION AT COUNTER.

P5 RELOCATED VAC INLET VALVE.

P6 NEW VAC INLET VALVE VAC-1. MOUNT AT HIGH ELEVATION, COORDINATE WITH LAB EQUIPMENT PLAN FOR ADDITIONAL INFORMATION.

SCALE: 1/4" = 1'-0"
### GENERAL PLUMBING FIXTURE SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>TRIM</th>
<th>ELECTRICAL REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tbody>
</table>

**NOTES:**

- SERRATED NOZZLE, COLORED INDEX, BRASS HANDLE, BRASS BODY, WALL ESCUTCHEON.

**1. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR ADDITIONAL NOTATIONS AND INSTALLATION INSTRUCTIONS. REFER TO ARCHITECTURAL PLANS FOR MOUNTING ELEVATIONS.**

**MARK FIXTURE DESCRIPTION MANUFACTURER MODEL TYPE SIZE**

**MANUFACTURER MODEL WASTE VENT CW HW**

**GENERAL PLUMBING FIXTURE SCHEDULE PN 23-159479**
Referring to code plan sheets for locations of rated fire mechanical plans, indicate the general design and all equipment shall be derated for the actual elevation.

Summer wet bulb: access doors, wall openings, roof openings, concrete points. Minor deviations from drawings may be allowed which must be serviced, operated, or maintained in fully other trades and coordinate the work with theirs.

Fire department valve cabinets, firewater supply, process cooling water supply, subcontractors mention in the specifications, shall be the contractor. Wiring to the fire alarm system by the manufacturer's name, the rating in volts, frequency and number of systems and installation and testing of all fire, electrical, civil and structural, is based on the contractor. Provide isolation as recommended by the equipment specifications for types and sizes required. Otherwise, provide isolation as required. The mounting height of the thermostats shall be in

Index of not more than 25 and a smoke-developed index of systems and installation and testing of all fire, electrical, civil and structural, is based on the contractor. Wiring to the fire alarm system by the manufacturer's name, the rating in volts, frequency and number of systems and installation and testing of all fire, electrical, civil and structural, is based on the contractor. Provide isolation as recommended by the equipment specifications for types and sizes required. Otherwise, provide isolation as required. The mounting height of the thermostats shall be in
**Level 07 - HVAC Demolition Plan - Area A**

- **NOT IN SCOPE**

**Sheet Notes:**
- DH3: Existing supply diffuser to remain.
- DH4: Demo existing SAV-N760, sound attenuator and its related ductwork. Cap existing HWS/R connect to (E) SAV-N760. Return (E) SAV-N760 back to owner for future use.
- DH6: Existing supply diffuser, damper, and ductwork to remain.

**General Notes:**
- A for symbols and abbreviations see drawing M0.1
- Scale: 1/4" = 1'-0"
**GENERAL NOTES**

1. FOR SYMBOLS AND ABBREVIATIONS SEE DRAWING M0.1

**SHEET NOTES**

- **DH1** DEMO EXISTING DIFFUSERS/GRILLES. RETURN TO OWNER FOR FUTURE USE.
- **DH2** DEMO EXISTING THERMOSTAT SAV-N740. RETURN TO OWNER FOR FUTURE USE.
- **DH3** EXISTING SUPPLY DIFFUSER TO REMAIN.
- **DH5** DEMO EXISTING SAV-N740, SOUND ATTENUATOR AND ITS RELATED DUCTWORK BACK TO 34"X18" MAIN SUPPLY. CAP EXISTING HWS/R CONNECT TO (E) SAV-N760. RETURN (E) SAV-N740 BACK TO OWNER FOR FUTURE USE.
- **DH6** EXISTING SUPPLY DIFFUSER, DAMPER AND DUCTWORK TO REMAIN.
- **H3** EXISTING PIPING, DUCTWORK AND DIFFUSERS/GRILLES TO REMAIN.
LEVEL 07 - HVAC PIPING DEMOLITION PLAN - AREA A

NOT IN SCOPE

GENERAL NOTES

A. GENERAL NOTE 1

B. GENERAL NOTE 2

SHEET NOTES

DH4 DEMO EXISTING SAV-N760, SOUND ATTENUATOR AND ITS RELATED DUCTWORK. CAP EXISTING HWS/R CONNECT TO (E) SAV-N760. RETURN (E) SAV-N760 BACK TO OWNER FOR FUTURE USE.
LEVEL 07 - HVAC PIPING DEMOLITION PLAN - AREA B

NOT IN SCOPE

GENERAL NOTES

1. DEMO EXISTING THERMOSTAT SAV-N740. RETURN TO OWNER FOR FUTURE USE.

2. DEMO EXISTING SAV-N740, SOUND ATTENUATOR AND ITS RELATED DUCTWORK BACK TO 34"X18" MAIN SUPPLY. CAP EXISTING HWS/R CONNECT TO (E) SAV-N760. RETURN (E) SAV-N740 BACK TO OWNER FOR FUTURE USE.
GENERAL NOTES

1. FOR SYMBOLS AND ABBREVIATIONS SEE DRAWING M0.1

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

LEVEL 07 - HVAC PLAN - AREA B

NOT IN SCOPE

H2 RELOCATE EXISTING DIFFUSERS/GRILLES
H3 EXISTING PIPIING, DUCTWORK AND DIFFUSERS/GRILLES TO REMAIN
H4 RELOCATE EXISTING THERMOSTAT. RENAME IT SAV-N740-A
H6 CONNECT NEW SAV-N740-B TO EXISTING MAIN 34"X18" SUPPLY
H7 CONNECT NEW SAV-N740-A TO EXISTING MAIN 34"X18" SUPPLY
H8 A-10" Ø, 265 CFM
H9 B-10" Ø, 340 CFM
H10 (R) B-14" Ø, 340 CFM
LEVEL 07 - HVAC PIPING PLAN - AREA A

NOT IN SCOPE

GENERAL NOTES
A FOR SYMBOLS AND ABBREVIATIONS SEE DRAWING M0.1.

SHEET NOTES
H13 EXISTING THERMOSTAT. RENAME IT SAV-N760-B
H14 CAP EXISTING HWS/R CONNECT TO (E) SAV-N760.
H20 HWR/S CONNECT TO SAV-N760-A
H21 HWR/S CONNECT TO SAV-N760-B

SCALE: 1/4" = 1'-0"
**GENERAL NOTES**

1. For symbols and abbreviations, see drawing M0.1.

**SHEET NOTES**

- **H3** Existing piping, ductwork and diffusers/grilles to remain.
- **H11** Existing EAV, SAV, HWR/S to remain.
- **H12** Connect 3/4" HWR/S to main 2" HWR/S.
- **H15** Cap existing HWS/R connect to (E) SAV-N740.
- **H16** HWR/S connect to SAV-N740-B.
- **H17** HWR/S connect to SAV-N740-A.
- **H18** (E) HWR/S connect to (E) SAV-N745.
- **H19** (E) HWR/S connect to (E) SAV-N748.

**SCALE:** 1/4" = 1'-0"
NOTES

GENERAL NOTES

- All utilization wiring and service conductors shall be protected by appropriate overcurrent devices and listed raceways.
- All work shall be in conformance with applicable local codes and standards.
- The electrical system shall be designed to accommodate future expansion.

GENERAL DEMOLITION NOTES

- All existing electrical systems shall be completely depopulated and disconnected from any power source.
- All existing electrical systems shall be thoroughly cleaned and de-contaminated before any new work is performed.

GENERAL POWER NOTES

- All power distribution equipment shall be properly labeled and identified.
- All power distribution equipment shall be maintained in a safe and operable condition.

GENERAL LIGHTING NOTES

- All lighting fixtures shall be properly sized and located to provide adequate illumination.
- All lighting fixtures shall be maintained in a safe and operable condition.

GENERAL DEVICE BOX NOTES

- All device boxes shall be properly sized and located to accommodate the required devices.
- All device boxes shall be maintained in a safe and operable condition.

ELECTRICAL SYMBOLS

LIGHTING

POWER

COMMUNICATIONS

SAFETY

SECURITY

ONE-LINE DIAGRAM

CONSTRUCTION DOCUMENTS

E0.1
DE1 REMOVE LIGHTING FIXTURES AS SHOWN. MAINTAIN LIGHTING CIRCUIT FOR REUSE.

DE2 REMOVE EXISTING RACEWAY AS SHOWN. MAINTAIN CIRCUITS AND RACEWAY FOR REUSE.
EXISTING ELECTRICAL ONE-LINE DIAGRAM

NOTES:

- E1 CUSTOM 'LASER IN USE' SIGN SURFACE LED 277 V 10 W
- EXIT RONIX VEX SERIES

NEW SPARE CAPACITY: 1,359,508 VA
NEW LOAD: 1,966,029 VA
LOAD REMOVED: 10,200 VA
EXISTING LOAD: 1,965,000 VA

LOAD SUMMARY N2A

A B C D E F

NEW LOAD: 1,287,029 VA
LOAD ADDED: 11,229 VA
LOAD REMOVED: 10,200 VA
EXISTING LOAD: 1,286,000 VA

EQUIPMENT CAPACITY: 1,662,768 VA

65K SCCR
4000 AMP BUS
480Y277 VOLT N2A

CONSTRUCTION LIGHT SOURCE
LIGHTING FIXTURE SCHEDULE

NORTH BUS RISER 480V, 2000A PLUG 2000AT
70/3 70/3 350/3 2000AF

DOWN LUMENS UP CRI VOLT WATTS
800AT 800AF 800AT 800AF

ISOLATION TRANSFORMER K
ISOLATION TRANSFORMER K
480Y277 V SECONDARY
CCT
225 KVA
800 AMP BUS LDP7N
800/3 MAIN
13.2KV 2500 KVA

SPACE 800A SPACE 800A 14000AT 14000AF NO LOAD CHANGE.

LOAD REMOVED: 3240 VA

LOAD SUMMARY LRP 7-11

LRP 7 PANEL
LRP 7 PANEL
125/3 -
LRP 7 PANEL
LRP 7 PANEL
MEDIUM VOLTAGE SWITCHGEAR
125/3 -

NEW SPARE CAPACITY: 17,653 VA
NEW LOAD: 27,380 VA
LOAD ADDED: 1,080 VA
EXISTING LOAD: 26,300 VA

EQUIPMENT CAPACITY: 45,033 VA

LOAD SUMMARY LRP 7-18

LRP 7 PANEL
LRP 7 PANEL
125/3 -

LOAD REMOVED: 480 VA

LOAD SUMMARY LP7N

LRP 7 PANEL
LRP 7 PANEL
125/3 -

LOAD REMOVED: 3240 VA

LOAD SUMMARY LRP 7-18

LRP 7 PANEL
LRP 7 PANEL
125/3 -

LOAD REMOVED: 480 VA

LOAD SUMMARY LP7N

LRP 7 PANEL
LRP 7 PANEL
125/3 -

LOAD REMOVED: 3240 VA