State of Missouri
Public Health Laboratory Renovation
Jefferson City, Missouri

Designers
Architects: GastingerWalker&, Certificate of Authority #ARC000344
Mechanical, Plumbing, Electrical: IMEG, Certificate of Authority #F001325536

State Project # O2115-01
Site # 1017
Facility # 3101017078

Submission: 2 July 2021

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STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

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JANA E BEE TRIPLETT
NUMBER A-2002006831
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7/2/2021

Jana Bee Triplett - Architect
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CHECKED BY: JBT
DESIGNED BY: GW&

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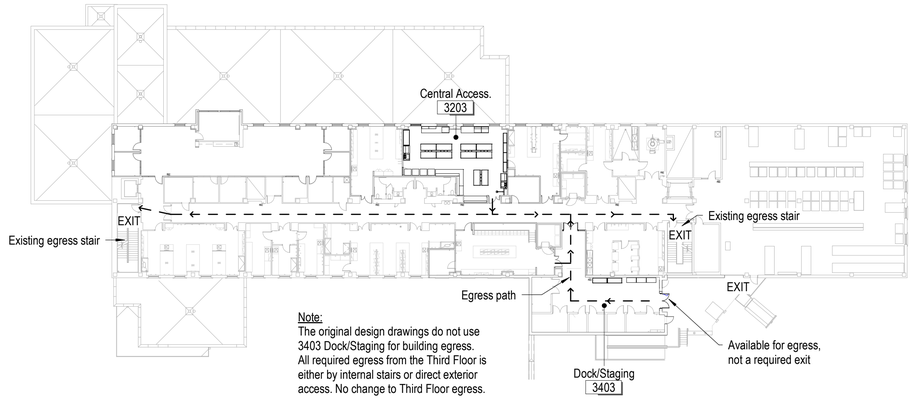
Cover Sheet

SHEET NUMBER:

G-001

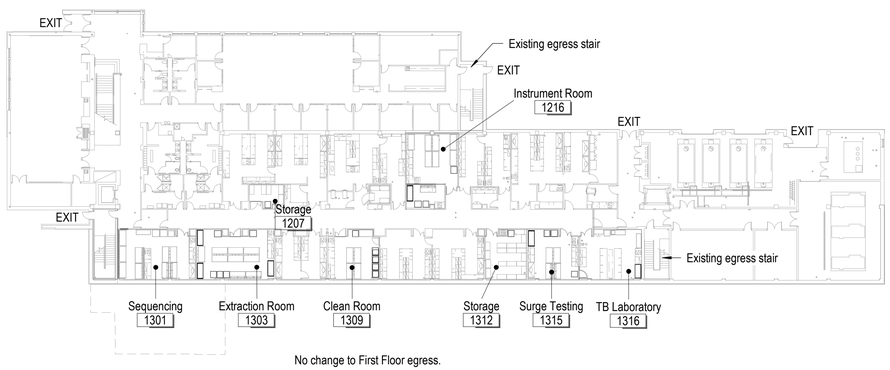
SHEET 001 OF 046

7/2/21



8 Floor 3 - Egress Plan

1" = 30'-0" 0 7.5' 15' 30' NORTH



No change to First Floor egress.

5 Floor 1 - Egress Plan

1" = 30'-0" 0 7.5' 15' 30' NORTH

General Project Notes:

1. All Construction is to be in accordance with the applicable Building Codes. Secure all permits and approvals as required by authorities having jurisdiction prior to beginning the Work
2. Do not scale these drawings for construction purposes. In the event of omission of necessary dimension, the Contractor shall contact the Architect.
3. The Contractor shall be responsible for verifying all dimensions, elevations, finishes and details shown on the drawings with existing conditions. Any discrepancies which will prevent the accomplishment of the intent shown on the drawings shall be brought to the immediate attention of the Architect. Indicated existing conditions are not intended as representations or warranties of accuracy. It is expressly understood that the MSPHL and Owner will not be responsible for interpretations and conclusions drawn by the Contractor.
4. Dimensions shown on the drawings are to the finished face of materials and/or centerlines of structure unless otherwise noted.
5. The Contractor is responsible for cutting, removing and patching all existing construction as required to allow for the new and complete construction.
6. The Contractor shall patch and repair all existing finishes which may have been damaged or altered by new construction. Finishes shall match adjacent finishes to remain and a smooth, uniform transition from pre-existing to new construction shall be provided unless otherwise noted.
7. All required shop drawings for materials are to be submitted to the Architect for review, comment, and approvals prior to ordering and installation.
8. The Contractor is responsible for protecting existing construction to remain.
9. The Contractor shall coordinate all schedules with the MSPHL and Owner prior to commencement of Work, including demolition, and coordinate building access and after-hours work. Contractor shall submit a project schedule as directed in the project specifications.
10. Provide fire-retardant treated wood or plywood backing at all items attached to wall surface (i.e. door stops, shelving, millwork, cabinetry, etc.) Where items are located at existing walls, cut and remove existing gypsum board to extent necessary to install backing materials and patch and repair wall including finishes.
11. All penetrations through new and existing fire-rated assemblies are to be sealed with UL approved fire-rated sealants and assemblies. At existing partitions required to be fire-rated, Contractor shall not modify partitions in any way that decreases that fire-rating. Verify existing partitions meet construction shown in the plans and seal any un-protected penetrations or openings.
12. Gypsum board partitions that are extended to underside of deck shall have a slip-track attachment. At rated partitions, provide fire-safing insulation and sealant for fire-stopping.
13. Verify size, location and characteristics of all work and equipment to be installed (whether furnished by Owner or Contractor) before construction pertaining to such items is started.
14. Verify and coordinate the size and location of all openings for mechanical and electrical equipment with all trades.
15. Contractor shall maintain a clean jobsite. Contractor shall routinely clean areas adjacent to areas of Work. Contractor shall leave the premises fully cleaned at end of the project.
16. Should any questions arise regarding the interpretation of the Contract Documents, reference shall be made to the Architect whose written decision shall be final and conclusive. No alleged and admission, condonation, or inadvertent neglect on the part of the Architect and/or Owner shall be accepted as an excuse for failure to comply with the Contract Documents.

General Project Biosafety Level 3 (BSL-3) Notes:

1. The First Floor laboratories and laboratory support spaces are located within a BSL-3 containment area. The finished floors, walls, and ceilings of each room within the BSL-3 containment area represent the containment barrier in each space. All penetrations through containment barriers into containment spaces must be sealed to maintain the integrity of BSL-3 spaces.

6 General Project Notes

Not to Scale

General Project Information:

Project Name: State Public Health Laboratory Renovation
Project Address: 101 N. Chestnut St., Jefferson City, MO (Cole County) 65101

Applicable Building Codes:
2018 International Building Code
2018 International Fire Code
2018 International Plumbing Code
2018 International Energy Code
2018 Mechanical Code
2018 Fuel Gas Code
2017 National Electric Code
2010 ADA Standards for Accessible Design

Building Data:
Occupancy Type: B, Business
Construction Type: II-B
Building Height: 6 stories
Automatic Sprinkler System: Building is fully sprinklered.
Area of New Work: Approximately 16,055 SF
Occupancy: No Change
Seismic Performance: Based upon the original design documents, design all seismic restraints in accordance with the 2018 IBC with an SDS equal to 23.3% G (per 2000 IBC).

Exit Access:
Common Path of Travel (IBC Table 1006.2.1) = 100' (not exceeded)
Exit access Travel Distance (IBC 1017.2) = 200' (not exceeded)

Existing Fire Protection and Separation Requirements

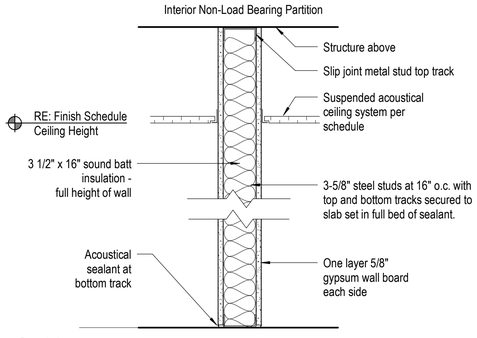
Structural Frame	0 hour
Bearing Walls	0 hour
Interior Non-load Bearing Partitions	0 hour
Floor Construction	0 hour
Roof Construction	0 hour
Exit Stair Enclosures	2 hours
Shaft Enclosures	2 hours

7 Code Information

Not to Scale

WALL TYPE "2"

Interior Non-Load Bearing Partition



Description:
3 5/8" steel stud (20 ga.) at 16" on center (o.c.) maximum to underside of structural deck. Four foot wide, 5/8" gypsum board on either side of stud. Acoustical batt insulation between studs, full height of wall. Use acoustical sealant to seal around openings and penetrations. Slip joint shall be installed at bottom of joist or to bottom of deck.

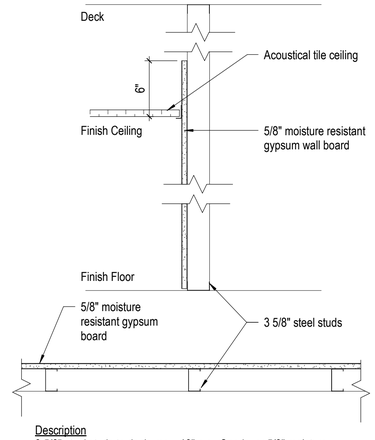
2 As stated above

1 Wall Type 2 - to deck

Not to Scale

WALL TYPE "1"

Interior Non-Load Bearing Partition (Non-Rated)



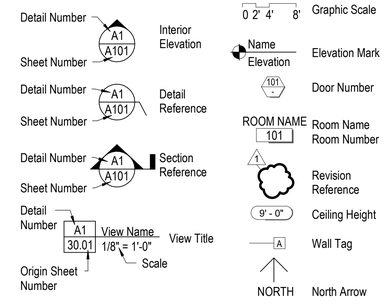
Description
3 5/8" steel studs to deck, max. 16" o.c. One layer 5/8" moisture resistant gypsum board on one side to 6" above ceiling. At walls above 12'-0" in height, use 20ga. metal studs.

1 As stated above

2 Wall Type 1

Not to Scale

Annotations and Symbols

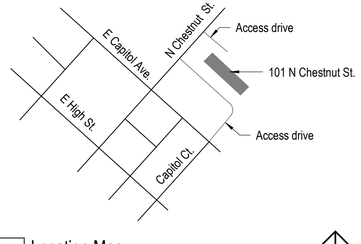


Electrical Symbols

⊗ Exit Sign
▽ Data Outlet

3 Symbols Legend

Not to Scale



4 Location Map

Not to Scale

NORTH

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
JANA E BEE TRIPLETT
NUMBER A-2002006831
ARCHITECT
7/2/21

Jana Bee Triplett - Architect
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SITE # 1017
FACILITY # 3101017078

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REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: A-GN-02
DRAWN BY: JKy
CHECKED BY: -
DESIGNED BY: GW&

SHEET TITLE:

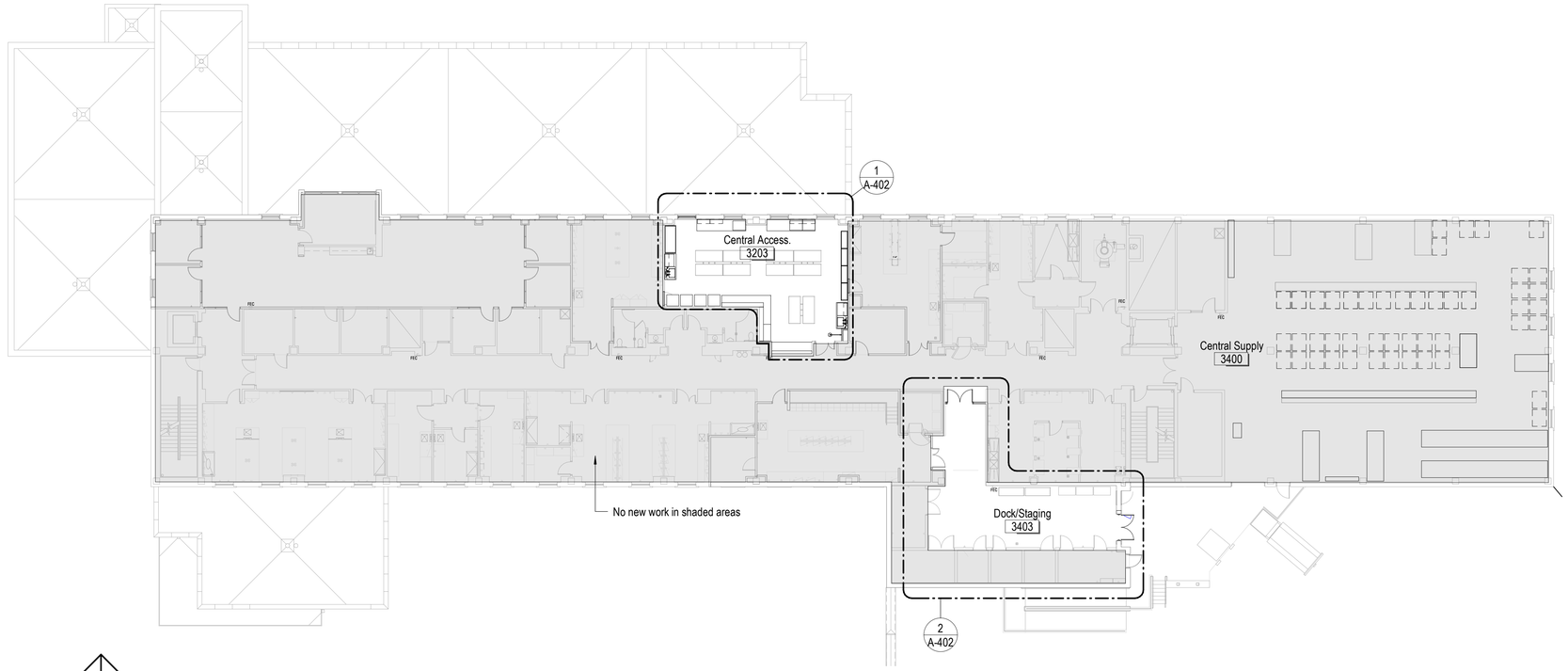
Code Information, Notes, Wall Types

SHEET NUMBER:

G-002

SHEET 002 OF 046

7/2/21

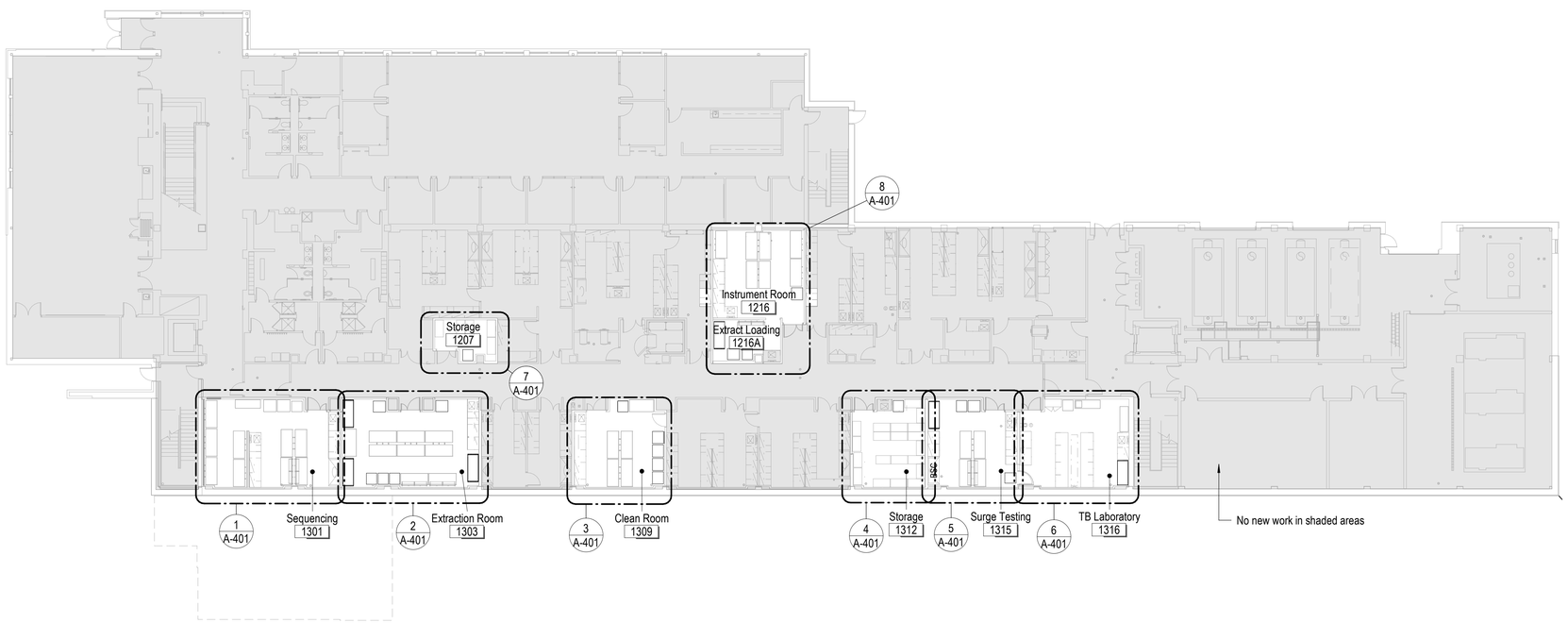


2 Floor 3 - Layout

1/16" = 1'-0"

0 4' 8' 16'

NORTH



1 Floor 1 - Layout

1/16" = 1'-0"

0 4' 8' 16'

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7/2/21

Jana Bee Triplett - Architect
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CHECKED BY: JBT
DESIGNED BY: GW&

SHEET TITLE:

First and Third Floor
Reference Plans

SHEET NUMBER:

A-101

SHEET 003 OF 046

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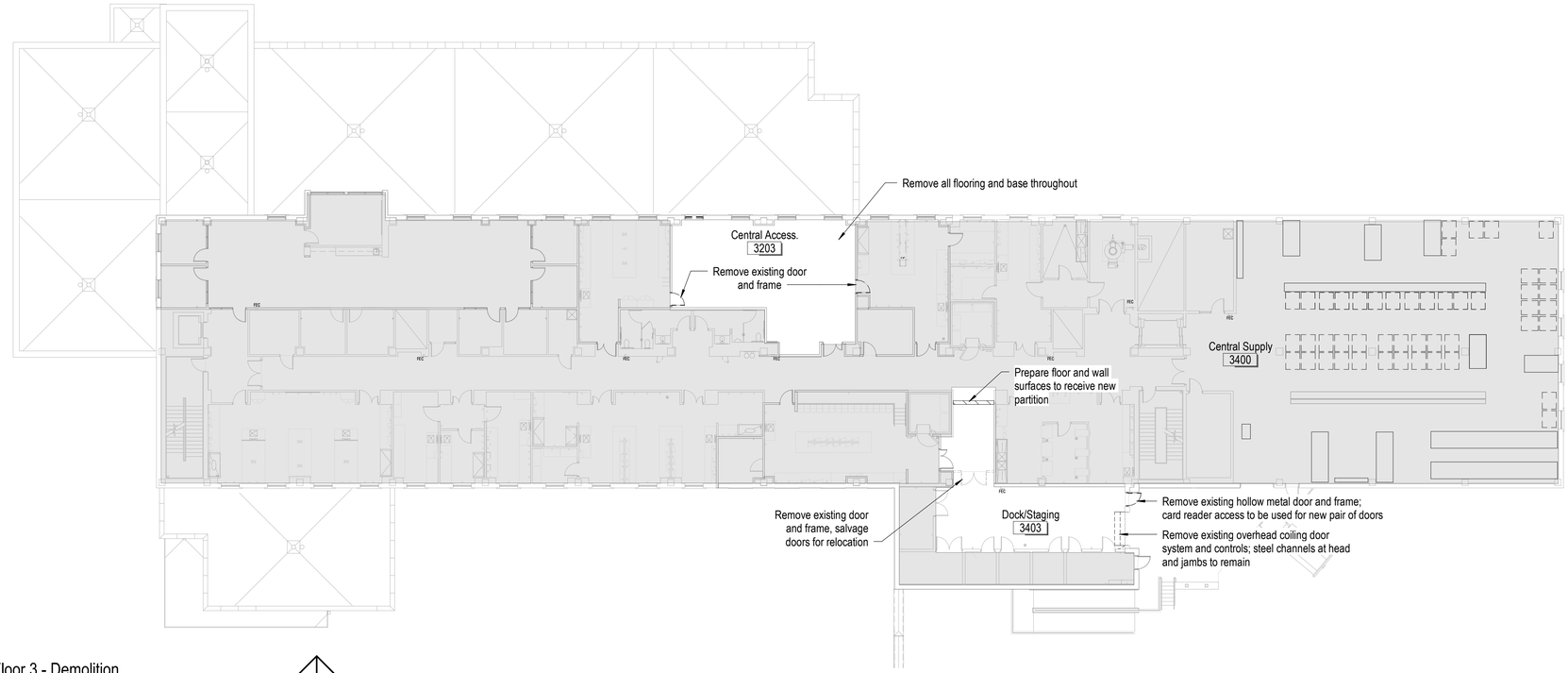
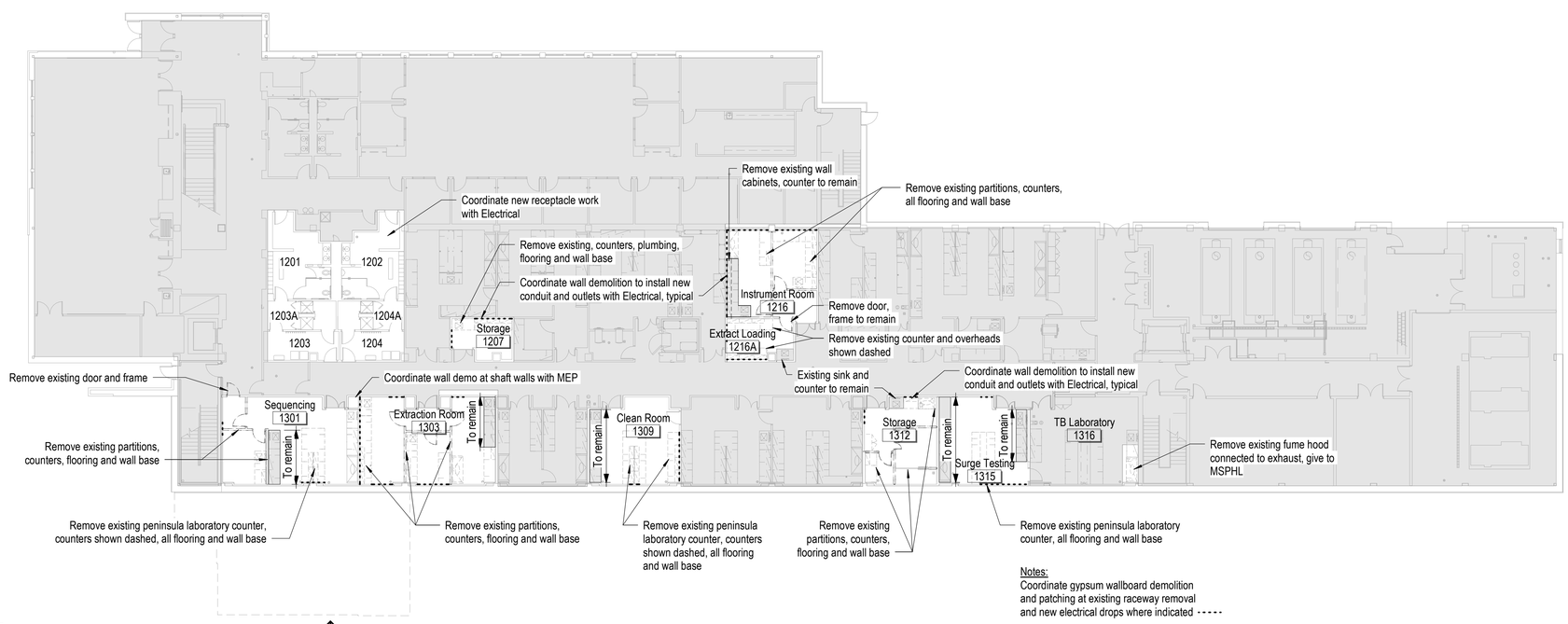


3 Floor 3 - Demolition

1/16" = 1'-0"

0 4' 8' 16' NORTH



Notes:
Coordinate gypsum wallboard demolition
and patching at existing raceway removal
and new electrical drops where indicated

1 Floor 1 - Demolition

1/16" = 1'-0"

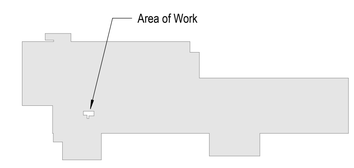
0 4' 8' 16' NORTH

Demolition Notes:

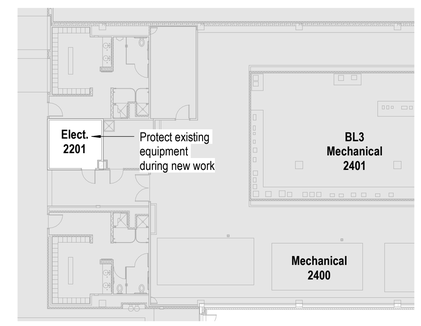
1. Demolish and remove all elements shown as dashed or as indicated. Patch and repair all walls, ceilings and floors to remain and prepare for new finishes. Coordinate the removal of associated mechanical, electrical and plumbing elements.
2. Contractor shall remove, haul off site and dispose of all existing construction not to be salvaged. Comply with all governing regulations related to hauling, recycling and disposal of demolished materials.
3. Remove existing flooring to subfloor including adhesives, mortars, mastics, etc. and wall finish to gypsum layer throughout, unless noted otherwise. Repair and prepare substrate for new finishes, including remaining walls, columns, and exterior walls.
4. Interior doors to remain, unless noted otherwise.
5. Contractor shall prepare an inventory of existing items to be removed and relocated. The contractor shall coordinate with MSPHL and the Owner to determine items to be inventoried and format requirements of 'on site' storage areas, and sequence of demolition prior to the commencement of work. The Contractor is to carefully remove and neatly store on site and protect from damage any item in the Contract Documents to be removed and relocated.
6. Contractor shall coordinate all schedules with MSPHL and the Owner prior to commencement of work, including demolition duration, construction phasing, working times, building access and after-hours work.
7. Remove existing exit lights, horn strobes and speakers and relocate or reinstall per new plan layout. Items shown on the reflected ceiling plan are for reference only.
8. It is not expected that contractor will encounter hazardous materials. Hazardous materials, if present, shall be removed by Others. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Owner and Architect.
9. All conditions noted are from visual observation and existing facility documentation. All conditions must be field verified by the Contractor. Any discrepancies which will prevent the accomplishment of the intent shown on the drawings shall be brought to the immediate attention of the Architect. It is expressly understood that MSPHL and the Owner will not be responsible for interpretations and conclusions made by the Contractor.
10. Should any questions arise regarding the interpretation of the Contract Documents, reference shall be made to the Architect for final interpretation. Only written acknowledgement in the form of RFI response, or other written communication, shall be considered direction to change to Construction Documents. Oral communication by Architect or Owner shall not be considered acceptable rationale for failure to comply with the requirements of the Construction Documents.
11. Unless noted otherwise, partitions indicated for removal shall be removed entirely to the structure above.
12. Do not cut or remove any structural elements. Contractor shall notify Architect and Owner if any work may affect structural elements. Provide temporary support and protect existing conditions as required.
13. Prior to floor coring or drilling, coordinate locations with existing structural drawings, project MEP drawings, and project architectural drawings. Locate embedded objects within floor slabs with either by x-ray or ground penetrating radar (GPR) prior to coring or drilling.
14. Hazardous conditions, such as floor openings exposed by removal of walls or by cutting, or wall openings to shafts, shall be provided with temporary protectives. Contractor is responsible for all site safety related to areas of new Work.
15. Any utilities including electrical, plumbing or mechanical items that are shown to be removed, or are within walls to be removed, shall be removed as indicated on the MEP drawings.
16. Existing window treatments to remain. Remove and reinstall or raise and protect in place throughout project scope at start of project. Coordinate with Owner for scope of providing new for missing, damaged or inoperable window treatments.
17. Reference Specification Section 015010 Temporary Dust Barriers and Construction Indoor Air Quality Control Plan.
18. Coordinate First Floor BSL-3 Laboratory wall finish demolition for new data drops to minimize the extent of disturbed areas.

4 General Demolition Notes

Not to Scale



Second Floor - Key Plan



Re: Detail 9 / A-401 for partial Second Floor Layout

2 Floor 2 - Demolition

1/16" = 1'-0"

0 4' 8' 16' NORTH

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DESIGNED BY: GW&

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First, Second, and Thrid
Floor Demolition Plans

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A-102

SHEET 004 OF 046

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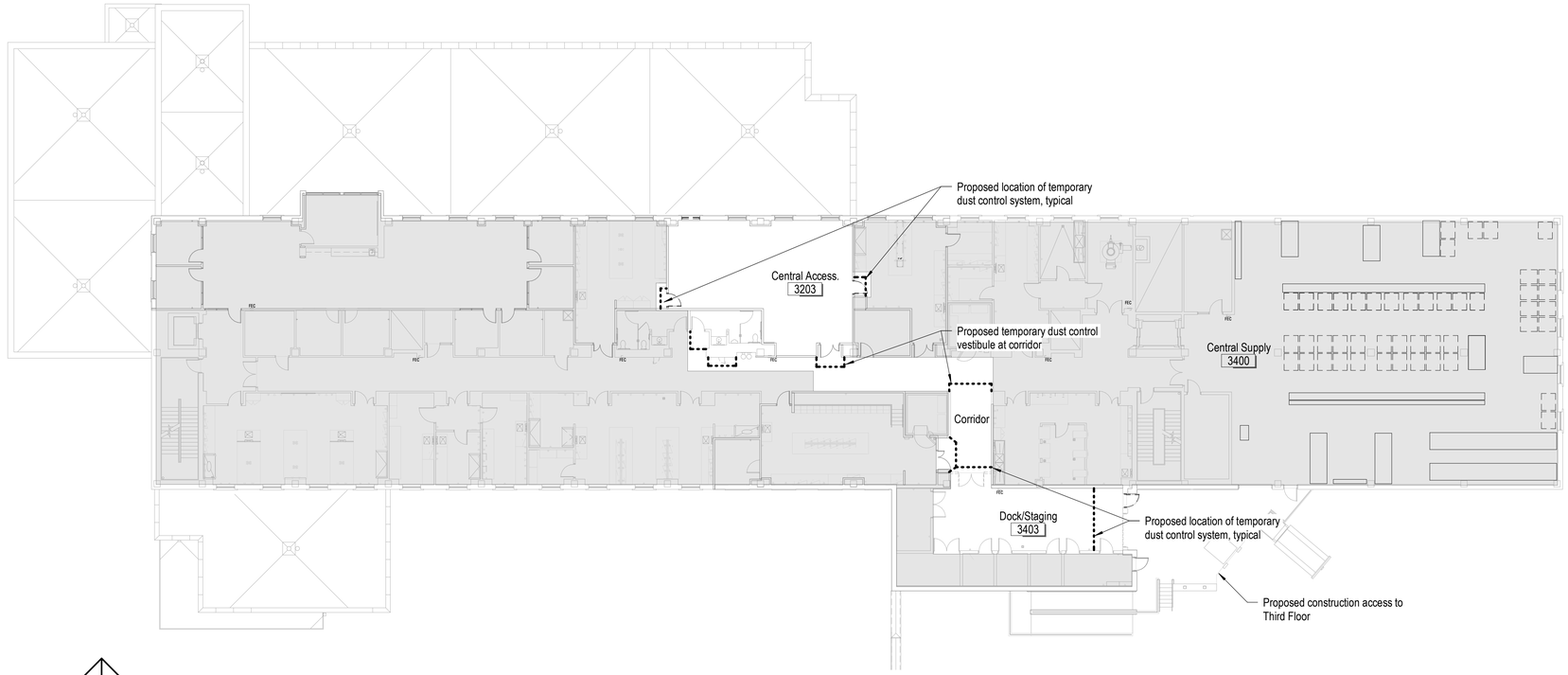
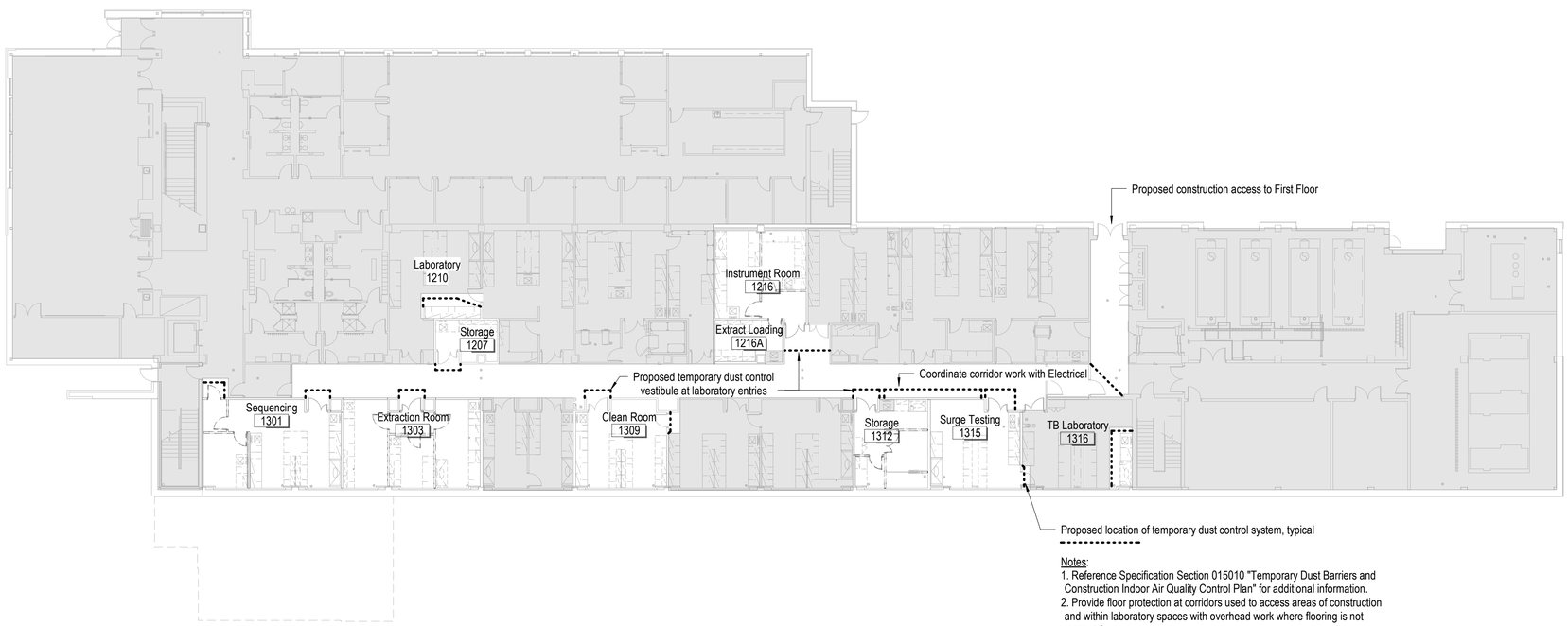


2 Floor 3 - Temporary Controls

1/16" = 1'-0"

0 4' 8' 16'

NORTH



Notes:
1. Reference Specification Section 015010 "Temporary Dust Barriers and Construction Indoor Air Quality Control Plan" for additional information.
2. Provide floor protection at corridors used to access areas of construction and within laboratory spaces with overhead work where flooring is not removed.

1 Floor 1 - Temporary Controls Plan

1/16" = 1'-0"

0 4' 8' 16'

NORTH

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First and Third Floor
Temporary Controls Plans

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A-103

SHEET 005 OF 046

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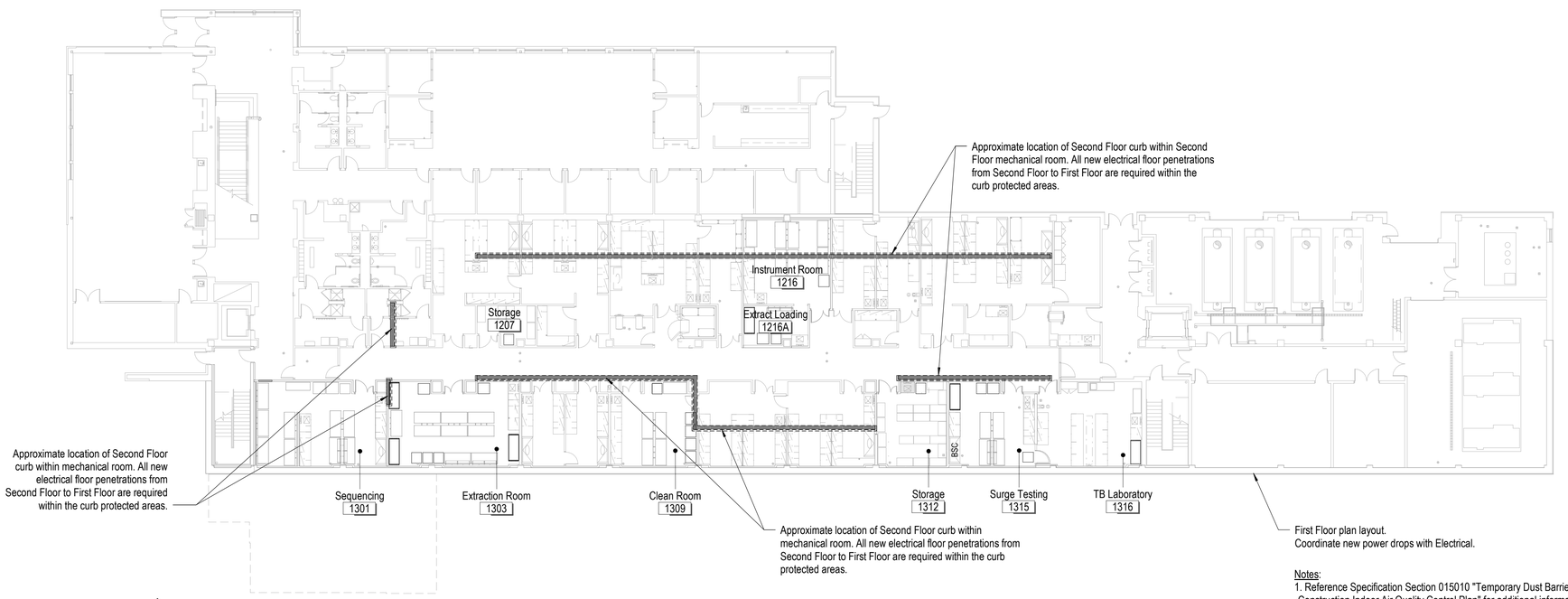

Notes:
1. Reference Specification Section 015010 "Temporary Dust Barriers and Construction Indoor Air Quality Control Plan" for additional information.

1 Floor 1 - Layout - 2nd Floor Overlay

1/16" = 1'-0" 0 4' 8' 16' NORTH

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DESIGNED BY: GW&

SHEET TITLE:

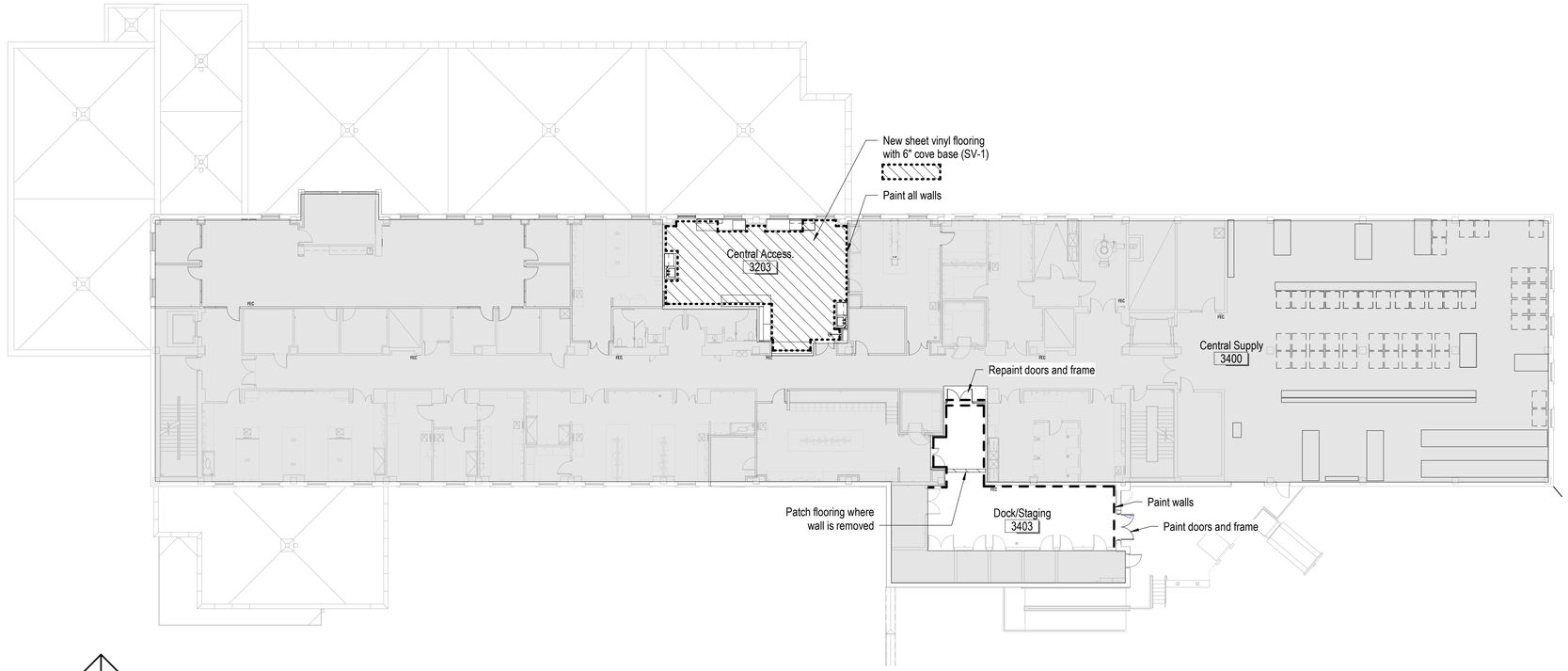
First Floor Plan with Second Floor Curb Overlay

SHEET NUMBER:

A-104

SHEET 006 OF 046

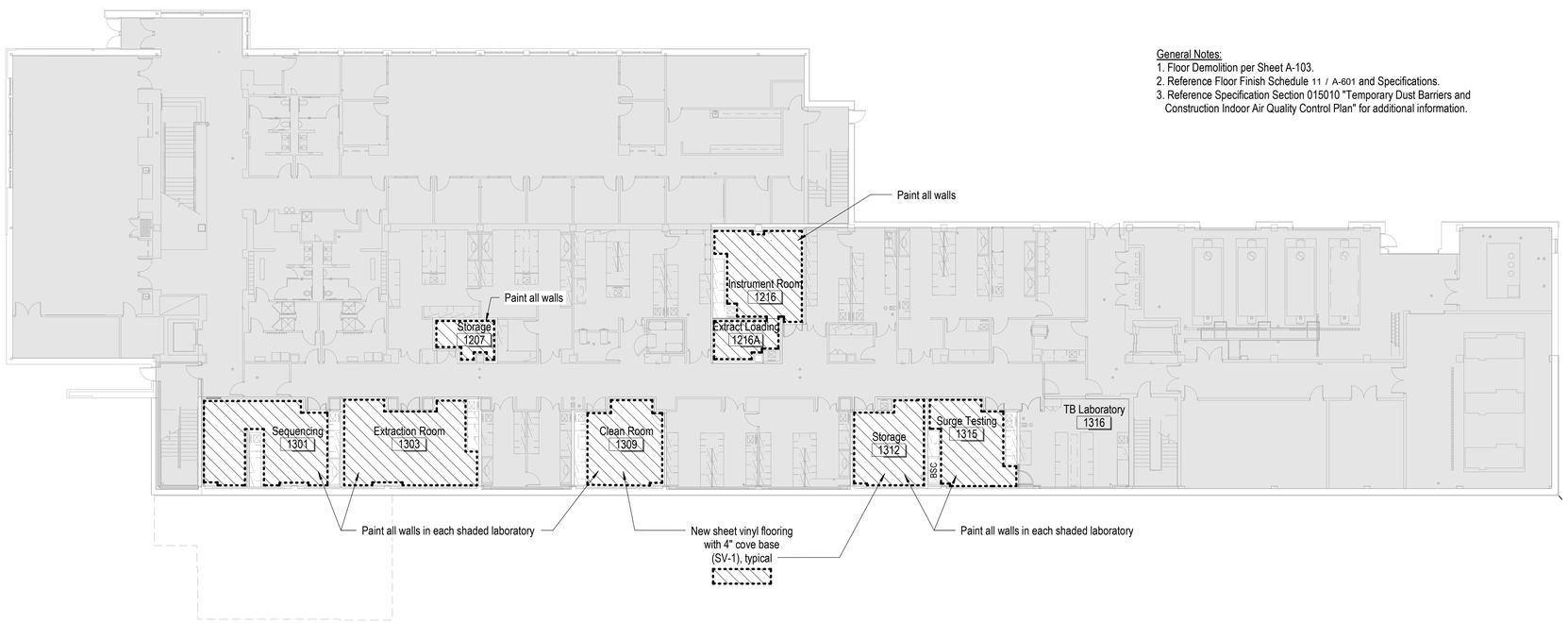
7/2/21



2 Floor 3 - Finish Plan

1/16" = 1'-0"

0 4' 8' 16' NORTH



General Notes:
1. Floor Demolition per Sheet A-103.
2. Reference Floor Finish Schedule 11 / A-601 and Specifications.
3. Reference Specification Section 015010 "Temporary Dust Barriers and Construction Indoor Air Quality Control Plan" for additional information.

1 Floor 1 - Finish Plan

1/16" = 1'-0"

0 4' 8' 16' NORTH

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817 Wyandotte Kansas City Missouri 64105 816.421.8200 gastingerwalker.com
Project Number: 2020.491

IMEG
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: A-FP-04
DRAWN BY: JKy
CHECKED BY: JBT
DESIGNED BY: GW&

SHEET TITLE:

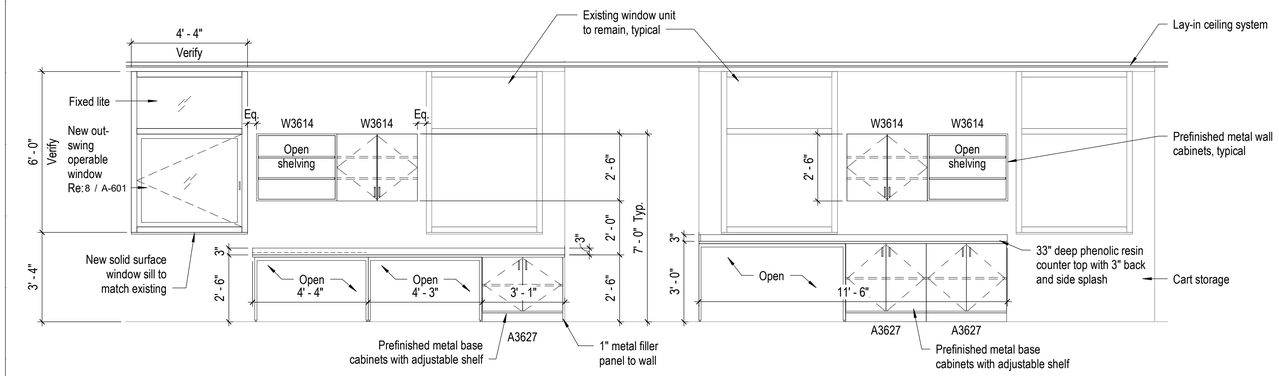
First and Thrid Floor - Finish Plans

SHEET NUMBER:

A-105

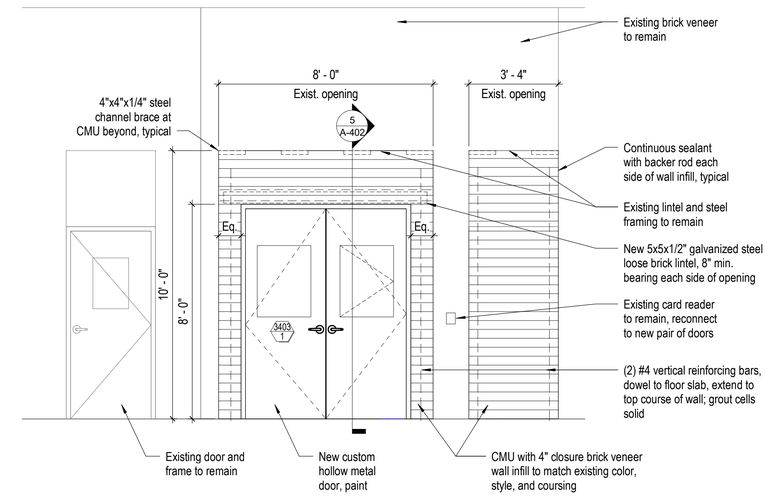
SHEET 007 OF 046

7/2/21



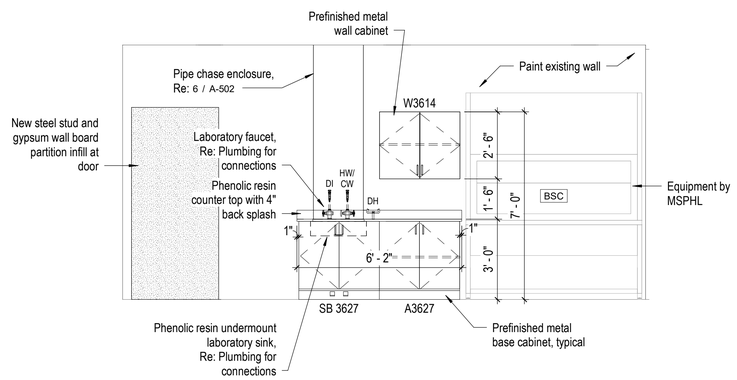
6 Interior Elevation - 3203 North

A-402 3/8" = 1'-0"



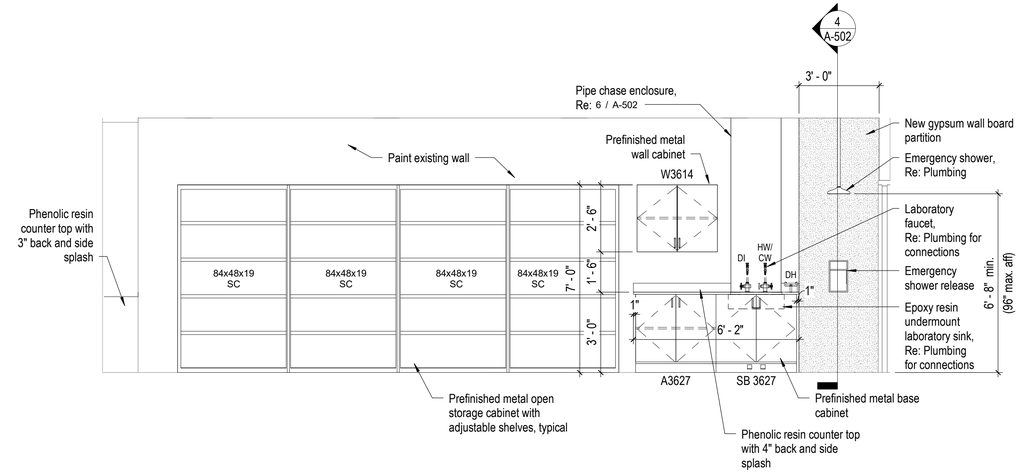
7 Dock Door Elevation

A-402 3/8" = 1'-0"



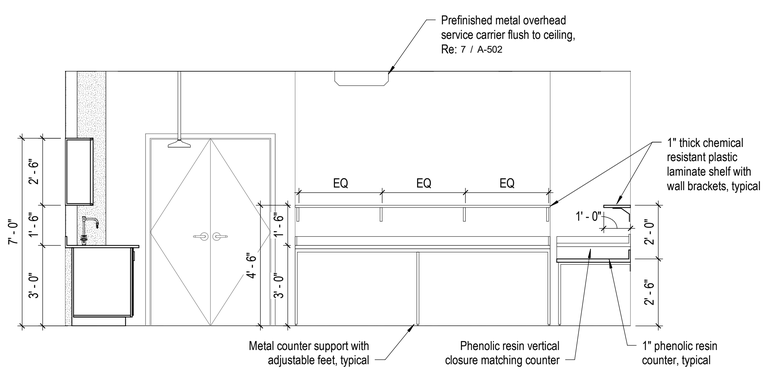
4 Interior Elevation - 3203 West

A-402 3/8" = 1'-0"



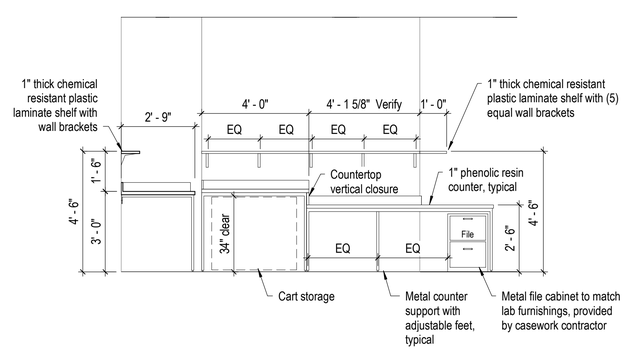
5 Interior Elevation - 3203 East

A-402 3/8" = 1'-0"



1 Interior Elevation - 3203 South Entry

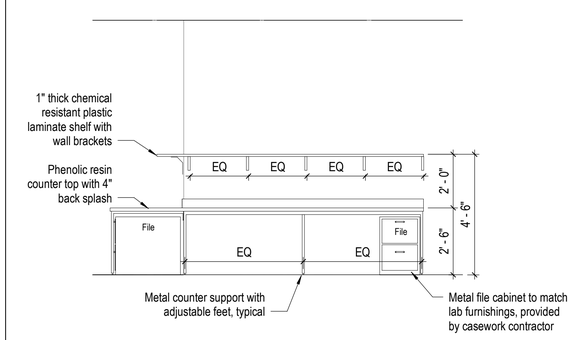
A-402 3/8" = 1'-0"



2 Interior Elevation - 3203 West Drop

A-402 3/8" = 1'-0"

Notes:
1. Reference Specification Section 015010 "Temporary Dust Barriers and Construction Indoor Air Quality Control Plan" for additional information.



3 Interior Elevation - 3203 South

A-402 3/8" = 1'-0"

STATE OF MISSOURI
MIKE PARSON, GOVERNOR

STATE OF MISSOURI
JANA E BEE TRIPLETT
NUMBER A-2002006831
ARCHITECT
7/1/21

Jana Bee Triplett - Architect
MO# 2002006831

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
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SITE # 1017
FACILITY # 3101017078

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ISSUE DATE: 2 July 2021

CAD DWG FILE: A-EL-01
DRAWN BY: JKy
CHECKED BY: JBT
DESIGNED BY: GW&

SHEET TITLE:

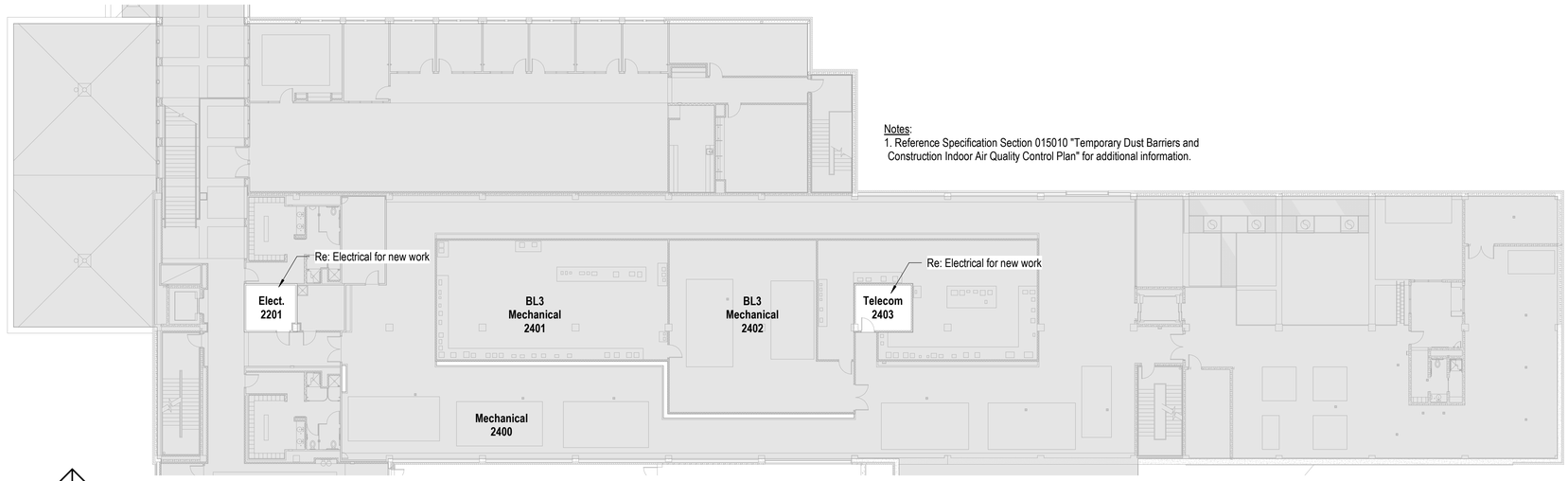
Elevations

SHEET NUMBER:

A-201

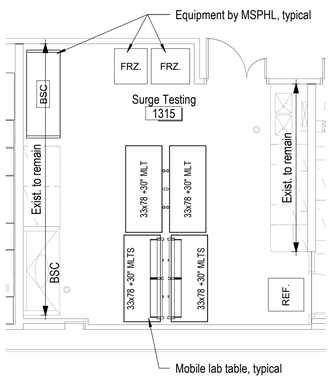
SHEET 008 OF 046

7/2/21

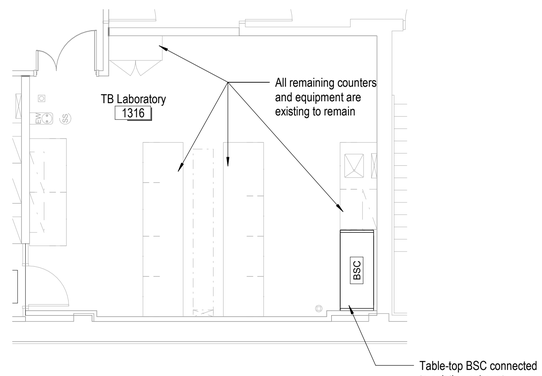


Notes:
1. Reference Specification Section 015010 "Temporary Dust Barriers and Construction Indoor Air Quality Control Plan" for additional information.

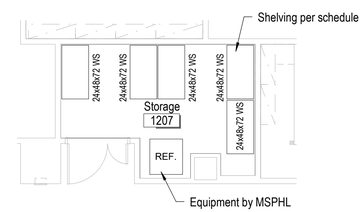
9 Floor 2 - Layout
1/16" = 1'-0" 0 2' 4' 8' NORTH



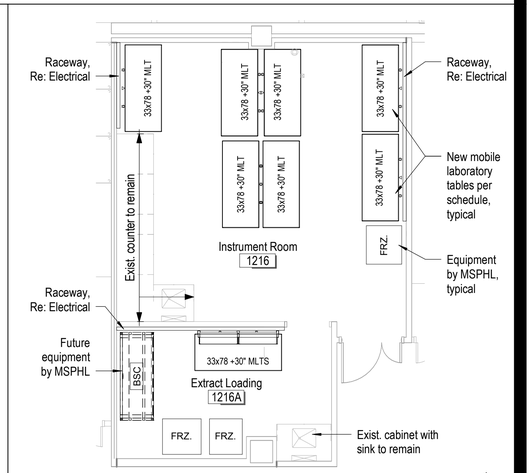
5 Floor 1 - Lab 1315
A-101 3/16" = 1'-0" 0 1'4" 2'8" 5'4" NORTH



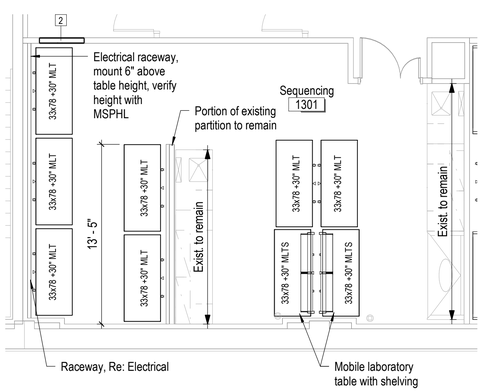
6 Floor 1 - Lab 1316
A-101 3/16" = 1'-0" 0 1'4" 2'8" 5'4" NORTH



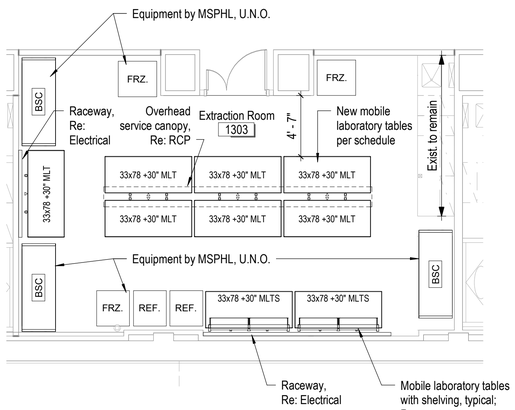
7 Floor 1 - Lab 1207
A-101 3/16" = 1'-0" 0 1'4" 2'8" 5'4" NORTH



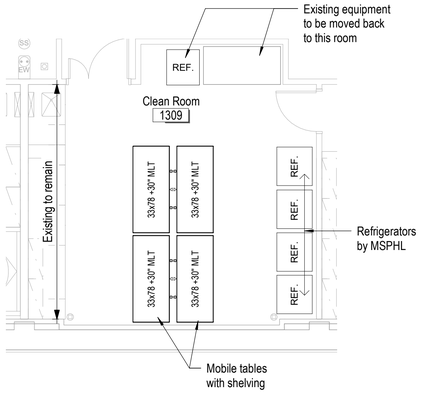
8 Floor 1 - Lab 1216/1216A
A-101 3/16" = 1'-0" 0 1'4" 2'8" 5'4" NORTH



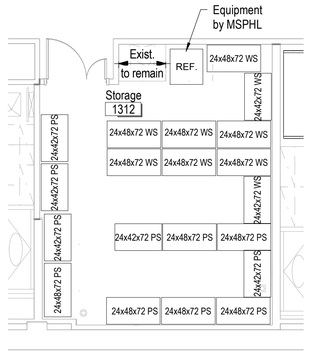
1 Floor 1 - Lab 1301
A-101 3/16" = 1'-0" 0 1'4" 2'8" 5'4" NORTH



2 Floor 1 - Lab 1303
A-101 3/16" = 1'-0" 0 1'4" 2'8" 5'4" NORTH



3 Floor 1 - Lab 1309
A-101 3/16" = 1'-0" 0 1'4" 2'8" 5'4" NORTH



4 Floor 1 - Lab 1312
A-101 3/16" = 1'-0" 0 1'4" 2'8" 5'4" NORTH

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
JANA E BEE TRIPLETT
NUMBER A-2002006831
ARCHITECT
7/2/2021

Jana Bee Triplett - Architect
MO# 2002006831

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REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: A-FP-05
DRAWN BY: JKy
CHECKED BY: JBT
DESIGNED BY: GW&

SHEET TITLE:

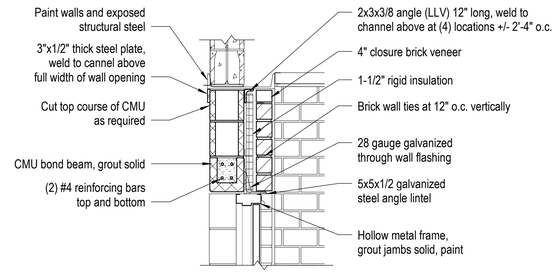
Enlarged Plans - First Floor
Partial Second Floor Plan

SHEET NUMBER:

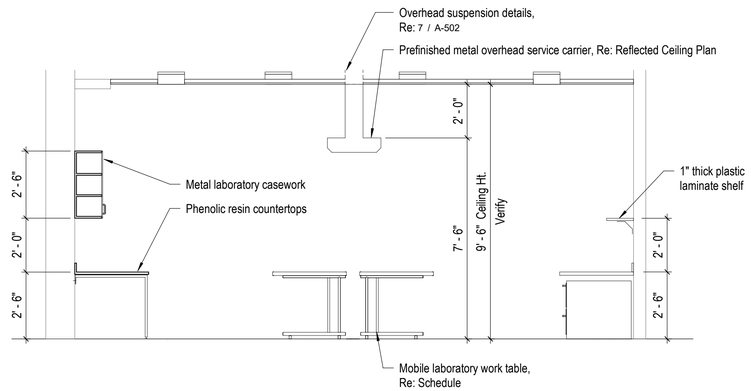
A-401

SHEET 009 OF 046

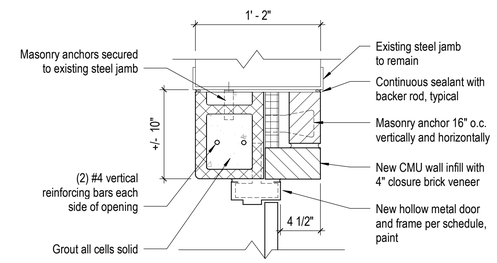
7/2/21



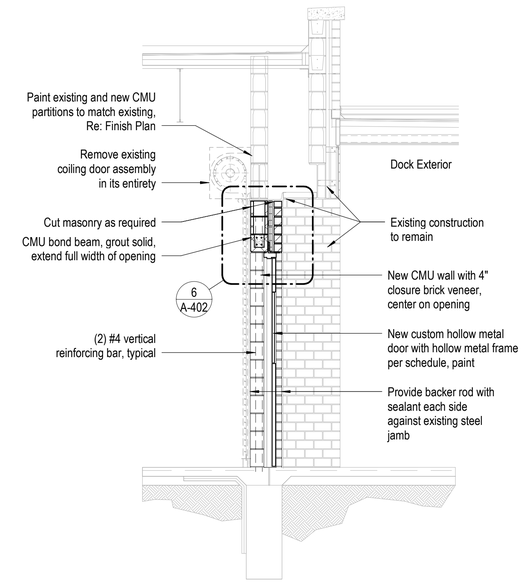
6 Head Detail at Wall Infill
A-402 3/4" = 1'-0"



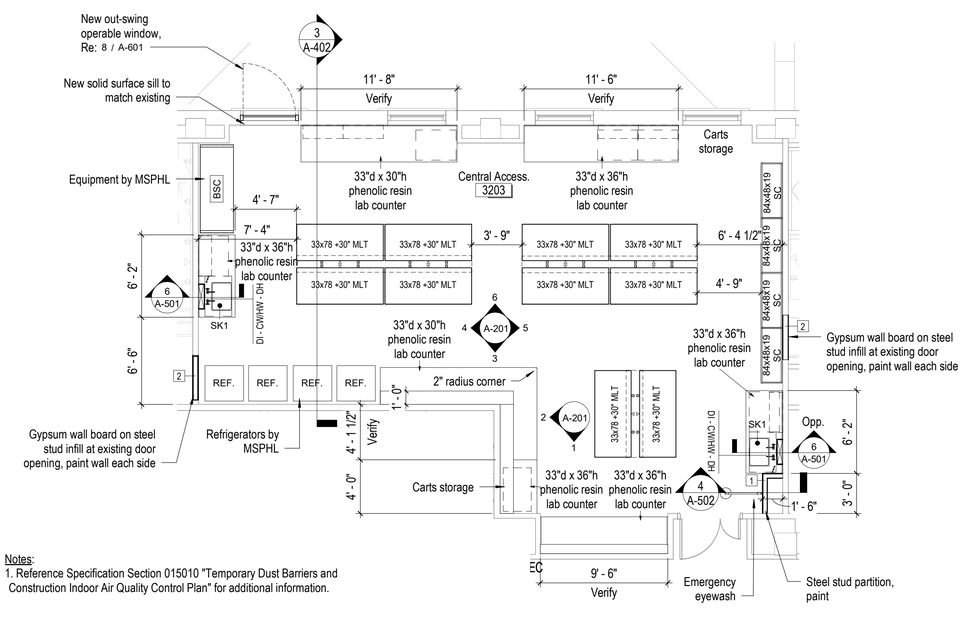
3 Section at Lab 3203
A-402 3/8" = 1'-0"



4 Plan Detail at Wall Infill
A-402 1 1/2" = 1'-0"

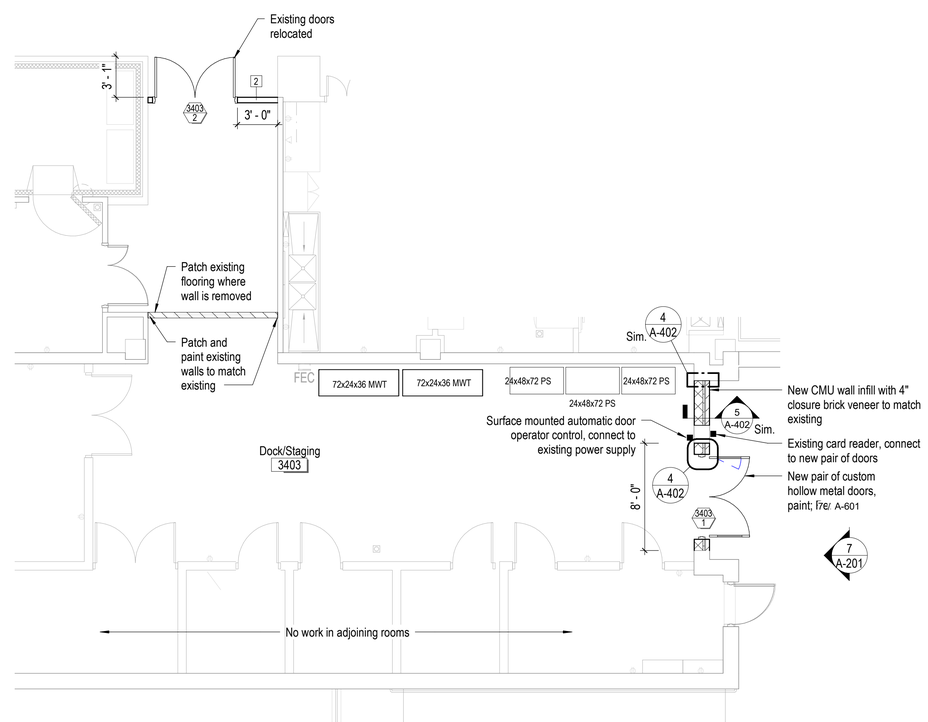


5 Section at Over Head Door
A-201 3/8" = 1'-0"



Notes:
1. Reference Specification Section 015010 "Temporary Dust Barriers and Construction Indoor Air Quality Control Plan" for additional information.

1 Floor 3 - Layout - EP-3203
A-101 3/16" = 1'-0"



2 Floor 3 - Layout - EP-3403
A-101 3/16" = 1'-0"

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
JANA E BEE TRIPLETT
NUMBER A-2002006831
ARCHITECT
7/2/21

Jana Bee Triplett - Architect
MO# 2002006831

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Laboratory Renovation

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ISSUE DATE: 2 July 2021

CAD DWG FILE: A-FP-06
DRAWN BY: JKy
CHECKED BY: JBT
DESIGNED BY: GW&

SHEET TITLE:

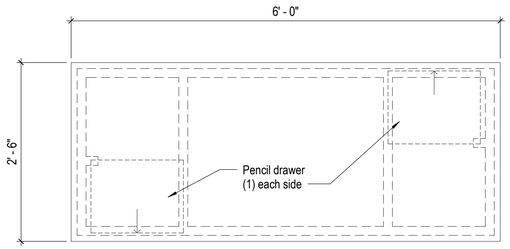
Enlarged Plans, Sections, Details - Third Floor

SHEET NUMBER:

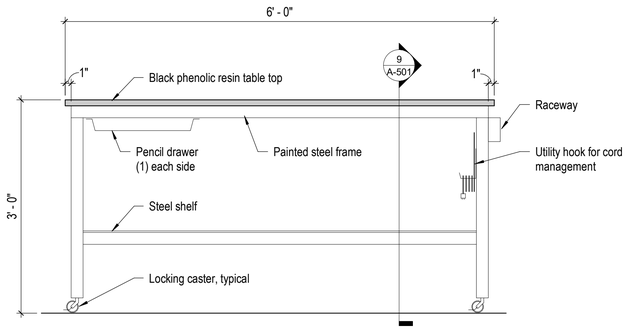
A-402

SHEET 010 OF 046

7/2/21

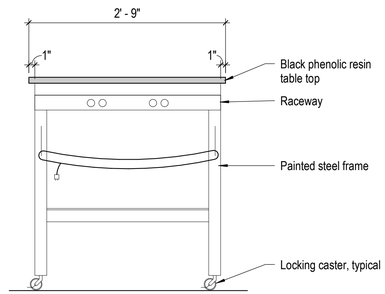


Plan View



8 Mobile Laboratory Work Table (MWT)

1" = 1'-0"

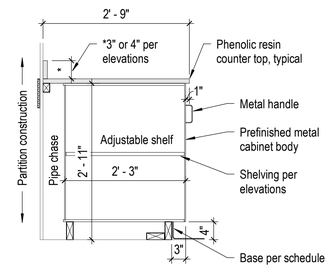


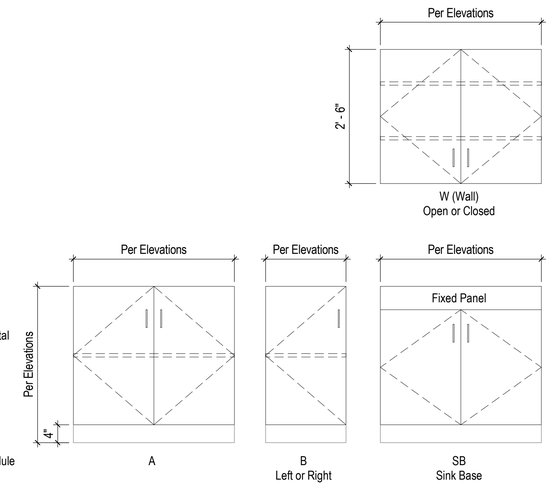
9 Mobile Laboratory Work Table - Section

A-501 1" = 1'-0"

Legend:
Re: Elevations

A 36 27
Depth
Width
Type

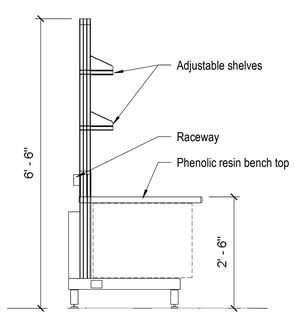


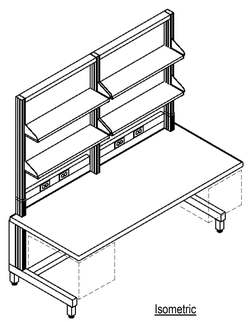


Base Cabinets

10 Laboratory Cabinets

3/4" = 1'-0"

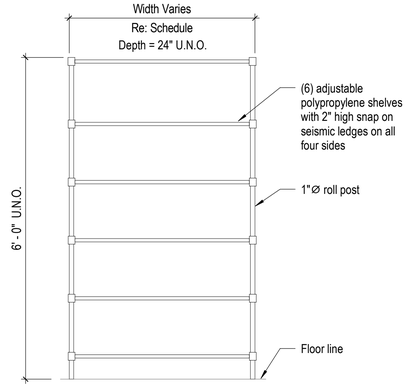




Isometric

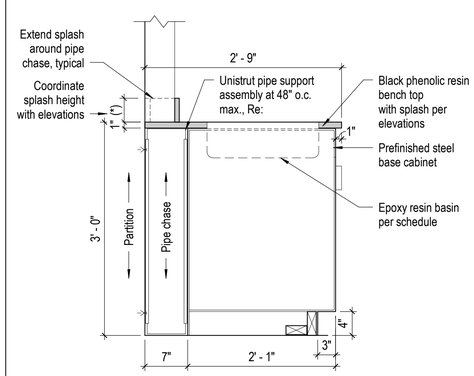
4 Bench with Shelving (MLTS)

1/2" = 1'-0"



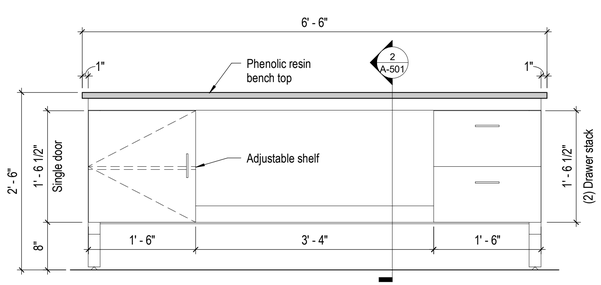
5 Polymer Shelving Unit Elevation

3/4" = 1'-0"



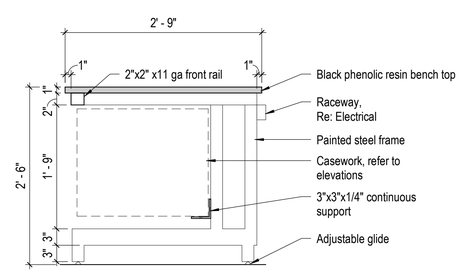
6 Casework Section - Standing Height w/ Sink

A-402 1" = 1'-0"



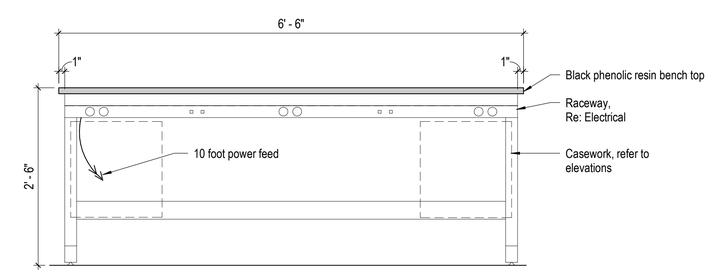
1 C-Frame Laboratory Tables - Front Elevation (MLT)

1" = 1'-0"



2 C-Frame Laboratory Tables - Section

A-501 1" = 1'-0"



3 C-Frame Laboratory Tables - Rear Elevation

1" = 1'-0"

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
JANA E BEE
TRIPLETT
NUMBER
A-2002006831
ARCHITECT
7/7/2021

Jana Bee Triplett - Architect
MO# 2002006831

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CAD DWG FILE: A-DT-01
DRAWN BY: JKy
CHECKED BY: JBT
DESIGNED BY: GW&

SHEET TITLE:

Laboratory Details

SHEET NUMBER:

A-501

SHEET 011 OF 046

7/2/21

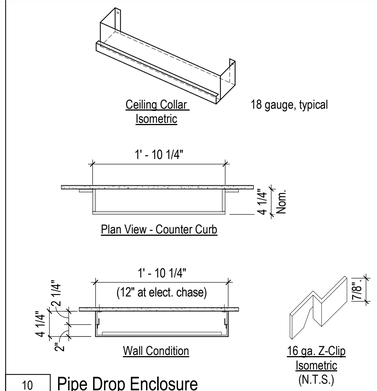
Laboratory Sink Schedule			
Sink Number	Material	Width x Front to Back x Depth	Remarks
SK1	Epoxy Resin	21" x 17" x 10"	Undermount

Laboratory Service Fitting Schedule		
Hot Water/Cold Water Mixing Valve		
Abbreviation	Mounting	Detail
HW/CW	Deck	1 / A-502
Deionized Water		
Abbreviation	Mounting	Detail
DI	Deck	2 / A-502
Drench Hose/Eye Wash		
Abbreviation	Mounting	Detail
DH	Deck	3 / A-502

Re: 12 / A-502 for lavatory fixture spacing.

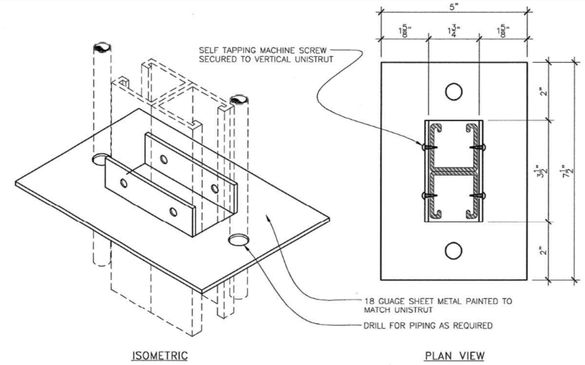
9 Laboratory Sink Schedule

Not to Scale



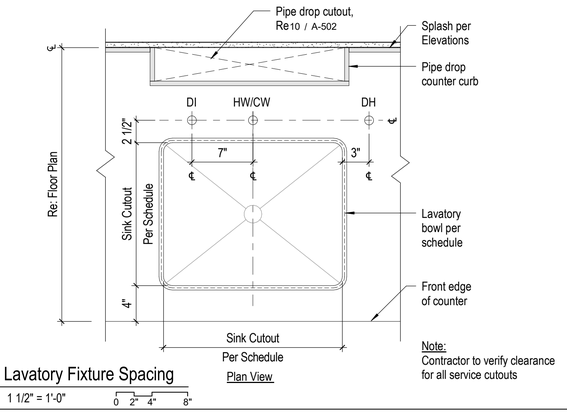
10 Pipe Drop Enclosure

1" = 1'-0"



11 Escutcheon Plate Detail

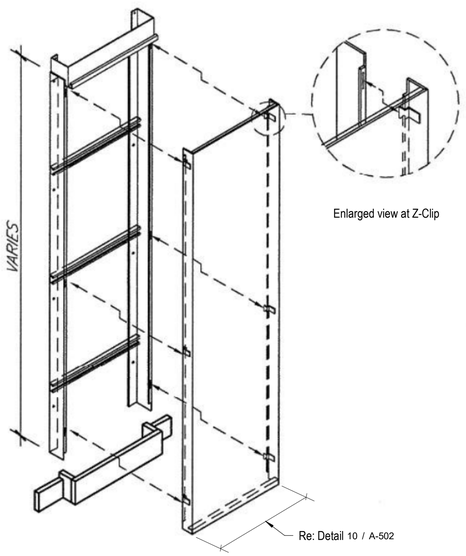
Not to Scale



Note: Contractor to verify clearance for all service cutouts

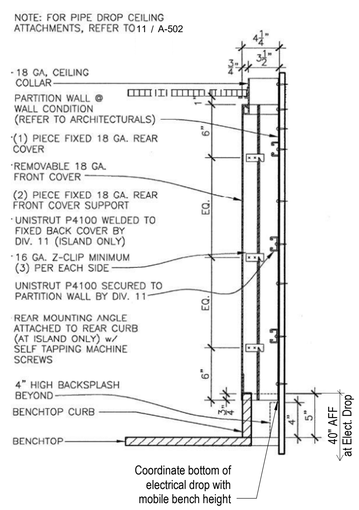
12 Lavatory Fixture Spacing

1 1/2" = 1'-0"



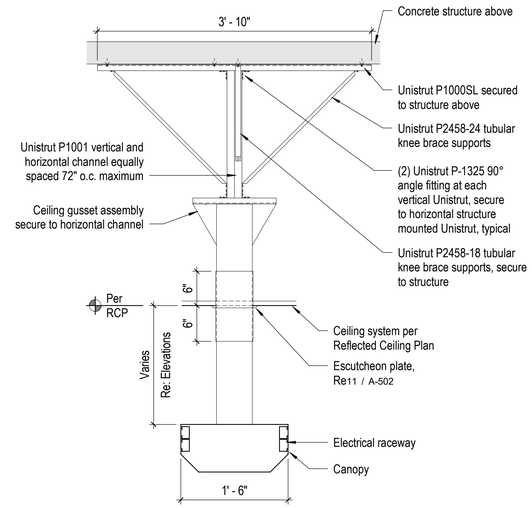
5 Pipe Drop Assembly

Not to Scale



6 Pipe Drop Section

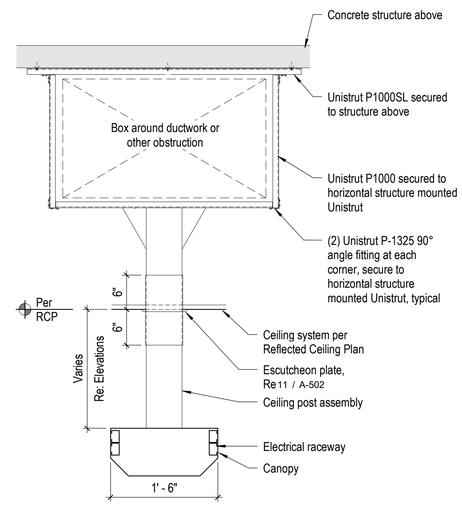
1 1/2" = 1'-0"



At obstruction refer to 8 / A-502

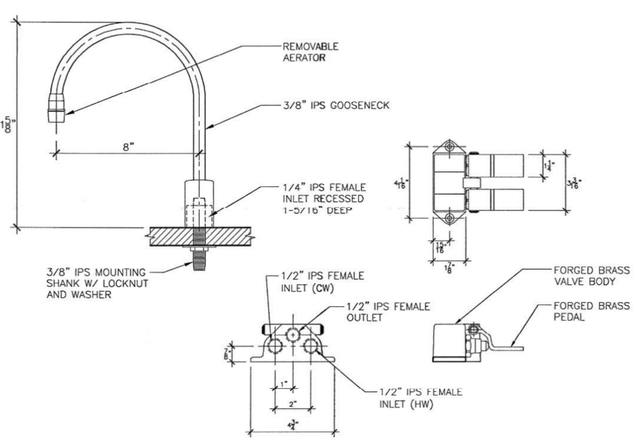
7 Overhead Service Carrier - Section

1" = 1'-0"



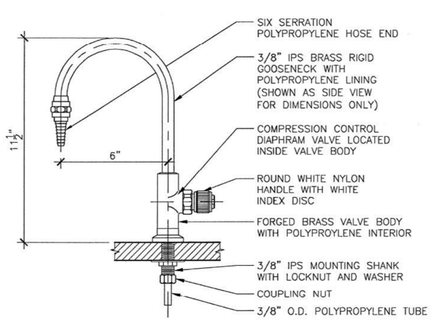
8 Overhead Service Carrier - Section at Overhead Obstruction

1" = 1'-0"



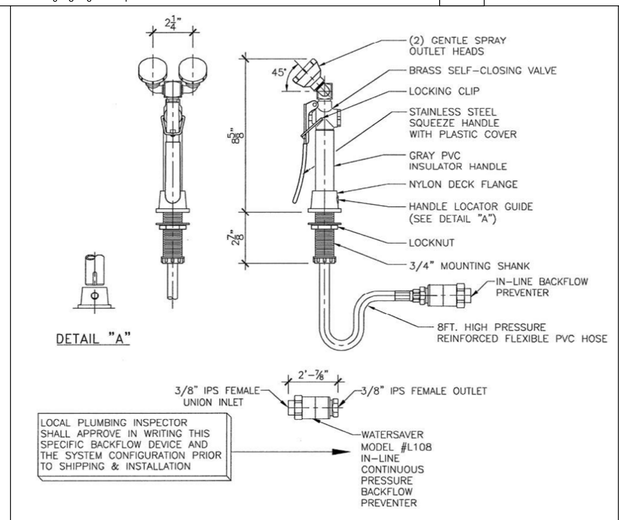
1 HW/CW - Deck Mounted Mixing Faucet

3" = 1'-0"



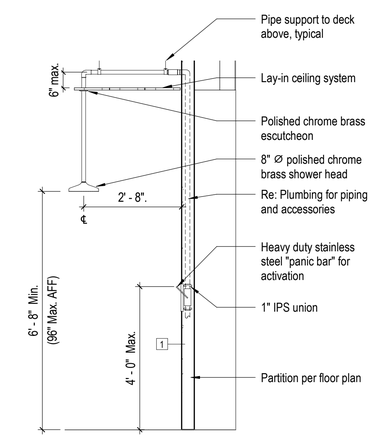
2 DI - Deck Mounted Pure Water Fitting

3" = 1'-0"



3 DH - Deck Mounted Eye Wash/Drench

3" = 1'-0"



4 Section at EM Eyewash

A-201 1/2" = 1'-0"

STATE OF MISSOURI
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GOVERNOR

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JANA E BEE TRIPLETT
NUMBER A-2002006831
ARCHITECT
7/2/21

Jana Bee Triplett - Architect
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
State Public Health Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: A-DT-02
DRAWN BY: JKy
CHECKED BY: JBT
DESIGNED BY: GW&

SHEET TITLE:

Laboratory Details, Sink Schedule

SHEET NUMBER:

A-502

SHEET 012 OF 046

7/2/21

Door Hardware Schedule (087100)

Group 1.0

8 Hinge
1 CVR Exit Dummy
1 CVR Exit Nightlatch
1 Cylinder
1 Automatic Opener, Double
2 Armor Plate
2 Door Stop

1 Gasketing
2 Sweep
1 Astragal
2 Electrified Harness (frame)
2 Electrified Harness (door)
1 Card Reader
2 Position Switch

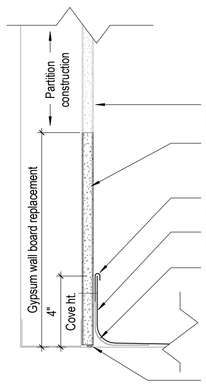
2 Mounting Box
2 Door Switch
2 Receiver/Transmitter
1 RF Receiver
2 Transmitter
1 Power Supply
2 Electric Power Transfer

Wicket Door:
1 Continuous hinge
1 Gasketing
1 One Sided Dead Blot

Provide one (1) 1/2" insulated lite kit per door leaf.

12 Door Hardware Schedule

Not to Scale



Note:
Similar condition at base of metal laboratory cabinets; coordinate with cabinet manufacturer

Existing gypsum wall board to remain

New gypsum wall board to match existing, provide straight and orderly cuts where existing wall base and gypsum wall board are removed

Continuous aluminum termination strip (096516)

Sheet vinyl flooring per Finish Schedule (096516)

Continuous bonded puncture-proof aluminum cove reinforcement (096516)

Continuous sealant

9 Vinyl Flooring Base Detail

3" = 1'-0"

Room Finish Schedule

Room Number	Room Name	Floor Finish	Base Finish	Walls North	Walls East	Walls South	Walls West	Ceiling Finish	Ceiling Height	Comments
1207	Storage	SV-1	SV-1	P-1	P-1	P-1	P-1	Exist.	Exist.	
1216	Instrument Room	SV-1	SV-1	P-1	P-1	P-1	P-1	GYP/P-3	9'-6"	
1216A	Extract Loading	SV-1	SV-1	P-1	P-1	P-1	P-1	GYP/P-3	Exist.	
1301	Sequencing	SV-1	SV-1	P-1	P-1	P-1	P-1	GYP/P-3	9'-6"	
1303	Extraction Room	SV-1	SV-1	-	-	P-1	-	-	Exist.	
1309	Clean Room	SV-1	SV-1	-	-	P-1	-	-	Exist.	
1312	Storage	SV-1	SV-1	P-1	P-1	P-1	P-1	GYP/P-3	9'-6"	
1315	Surge Testing	SV-1	SV-1	-	-	P-1	-	-	Exist.	
1316	TB Laboratory	Exist.	-	-	P-1	P-1	-	-	Exist.	Paint walls where hood is removed.
3203	Central Access.	SV-1	SV-1	P-2	P-2	P-2	P-2	ACT-1	9'-6"	
3400	Central Supply	Exist.	-	-	-	-	-	-	Exist.	No new worlk.
3403	Dock/Staging	Exist./ EP-1	Exist. / EP-1	P-2	P-2	P-2	P-2	Open	Exist.	Patch existing flooing to match existing.

Finish Legend:

Walls
P-1 Epoxy Paint (BSL-3 laboratories)
Color to match existing laboratory spaces.
P-2 Latex Paint
Color to match existing spaces.

Floors
Exist. Existing
SV-1 Sheet Vinyl
Color per Specifications
EP-1 Epoxy Resin
Color to match existing

Wall Base
SV-1 Sheet Vinyl, 4"

Ceilings
Gyp 5/8" Gypsum Wall Board
P-3 Epoxy Paint

Notes:
1. Provide aluminum termination strips at sheet vinyl cove base as specified.

11 Room Finish Schedule

Not to Scale

Door and Frame Schedule

Door Number		Room Name	Door Type	Door Width	Door Height	Door Thickness	Frame Type	Frame Jamb	Frame Head	Rating	Hardware	Comments
3403	1	Dock / Staging	A	6' - 0"	7' - 10"	1 3/4"	1	7 / A-601	6 / A-601	None	1.0	
3403	2	Dock / Staging	Existing	6' - 0"	7' - 0"	1 3/4"	Existing	9 / A-601	9 / A-601 Sim.	None	Exist.	Existing door and frame relocated. Paint door and frame.

Notes:
1. Paint doors and frames to match existing.
2. Lab 1216A, fill holes in door frame where door is removed, paint to match existing

10 Door and Frame Schedule

Not to Scale

Laboratory Furniture Schedule

Room	Type Mark	Description	Level	Type Comments
	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1207	24x48x72 WS	Wire Shelf	FIRST FLOOR	Existing
1207	24x48x72 WS	Wire Shelf	FIRST FLOOR	Existing
1207	24x48x72 WS	Wire Shelf	FIRST FLOOR	Existing
1207	24x48x72 WS	Wire Shelf	FIRST FLOOR	Existing
1207	24x48x72 WS	Wire Shelf	FIRST FLOOR	Existing
1216	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1216	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1216	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1216	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1216	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1216	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1216	33x78 +30" MLTS	Mobile Lab Table	FIRST FLOOR	New
1301	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1301	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1301	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1301	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1301	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1301	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1301	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1301	33x78 +30" MLTS	Mobile Lab Table	FIRST FLOOR	New
1301	33x78 +30" MLTS	Mobile Lab Table	FIRST FLOOR	New
1303	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1303	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1303	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1303	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1303	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1303	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1303	33x78 +30" MLTS	Mobile Lab Table	FIRST FLOOR	New
1303	33x78 +30" MLTS	Mobile Lab Table	FIRST FLOOR	New
1309	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1309	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1309	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1309	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1312	24x42x72 PS	Poly Shelf	FIRST FLOOR	New
1312	24x42x72 PS	Poly Shelf	FIRST FLOOR	New
1312	24x42x72 PS	Poly Shelf	FIRST FLOOR	New
1312	24x42x72 PS	Poly Shelf	FIRST FLOOR	New
1312	24x42x72 PS	Poly Shelf	FIRST FLOOR	New
1312	24x42x72 WS	Wire Shelf	FIRST FLOOR	Existing
1312	24x42x72 WS	Wire Shelf	FIRST FLOOR	Existing
1312	24x48x72 PS	Poly Shelf	FIRST FLOOR	New
1312	24x48x72 PS	Poly Shelf	FIRST FLOOR	New
1312	24x48x72 PS	Poly Shelf	FIRST FLOOR	New
1312	24x48x72 PS	Poly Shelf	FIRST FLOOR	New
1312	24x48x72 PS	Poly Shelf	FIRST FLOOR	New
1312	24x48x72 PS	Poly Shelf	FIRST FLOOR	New
1312	24x48x72 WS	Wire Shelf	FIRST FLOOR	Existing
1312	24x48x72 WS	Wire Shelf	FIRST FLOOR	Existing
1312	24x48x72 WS	Wire Shelf	FIRST FLOOR	Existing
1312	24x48x72 WS	Wire Shelf	FIRST FLOOR	Existing
1312	24x48x72 WS	Wire Shelf	FIRST FLOOR	Existing
1312	24x48x72 WS	Wire Shelf	FIRST FLOOR	Existing
1312	24x48x72 WS	Wire Shelf	FIRST FLOOR	Existing
1315	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1315	33x78 +30" MLT	Mobile Lab Table	FIRST FLOOR	New
1315	33x78 +30" MLTS	Mobile Lab Table	FIRST FLOOR	New
1315	33x78 +30" MLTS	Mobile Lab Table	FIRST FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	33x78 +30" MLT	Mobile Lab Table	THIRD FLOOR	New
3203	File	(2) Drawer File	THIRD FLOOR	New
3203	File	(2) Drawer File	THIRD FLOOR	New
3403	24x48x72 PS	Poly Shelf	THIRD FLOOR	New
3403	24x48x72 PS	Poly Shelf	THIRD FLOOR	New
3403	24x48x72 PS	Poly Shelf	THIRD FLOOR	New
3403	72x24x36 MWT	Work Table	THIRD FLOOR	New
3403	72x24x36 MWT	Work Table	THIRD FLOOR	New

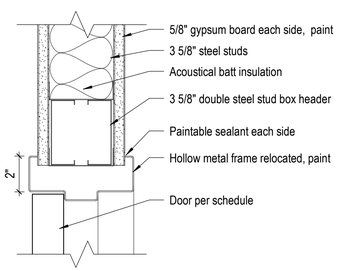
Legend:
File (2) Drawer File (under counter)
MLT Mobile Lab Table
MLTS Mobile Lab Table with Overhead Shelving
MWT Mobile Work Table
PS Polymer Shelving
WS Wire Shelving

Shaded Rooms are indicated to receive existing shelving moved from other locations.

Notes:
1. Existing wire shelving in 3203 to be reused and relocated to other rooms. Coordinate with MSPHL.
2. New polymer shelving (PS) to match existing. Size may vary per schedule.
3. All refrigerators and freezers by MSPHL. Coordinate power requirements with Electrical.

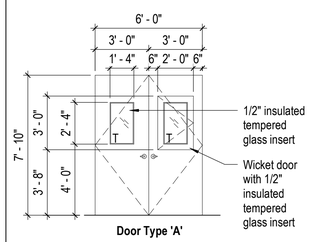
5 Laboratory Furniture Schedule

Not to Scale



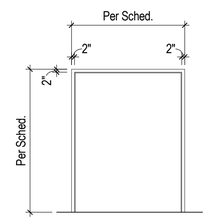
6 Interior Door Head Detail

3" = 1'-0"



Door Type 'A'

Custom Pair Insulated Hollow Metal, Paint
(View from exterior)



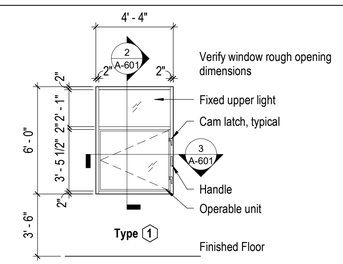
Frame Type '1'

Welded Hollow Metal, Paint

Coordinate door control rough-in with Electrical & Data

7 Door and Frame Types

1/4" = 1'-0"



Verify window rough opening dimensions

Fixed upper light

Cam latch, typical

Handle

Operable unit

Finished Floor

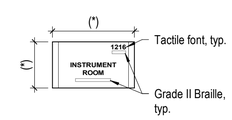
Clear Anodized Aluminum Out Swing Casement

8 Window Types

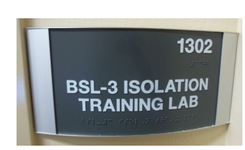
1/4" = 1'-0"

Room Signage Schedule

Number	Name
1207	Storage
1216	Instrument Room
1216A	Extract Loading
1301	Sequencing
1303	Extraction Room
1309	Clean Room
1312	Storage
1315	Surge Testing
3203	Central Access.
3403	Dock/Staging



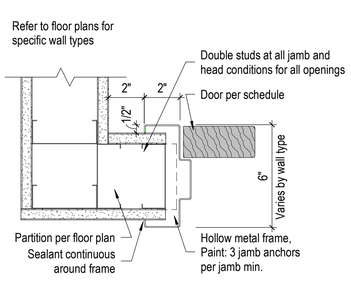
Notes:
1. Provide (1) new sign per renovated laboratory.
2. (*) Match existing room signage style with curved face, size, and font.
3. MSPHL to have final approval of room numbers and names prior to ordering.
4. Manufacturers: Apco Graphics, ASI Sign Systems, Best Sign Systems, Innerface Sign Systems, Vista Sign Systems, or approved equal.

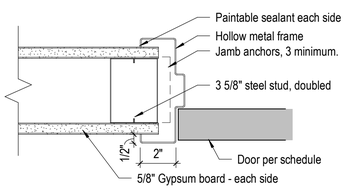


Existing signage to match

4 Signage

Not to Scale

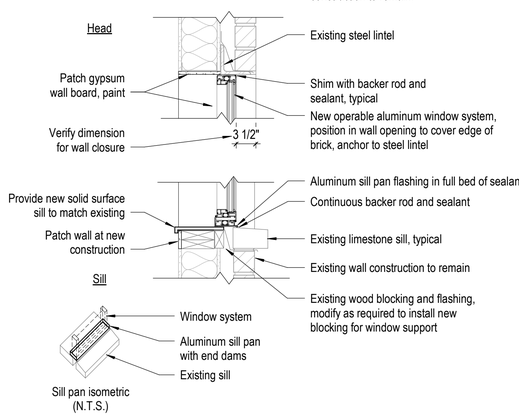




1 Interior Door Jamb Detail

3" = 1'-0"

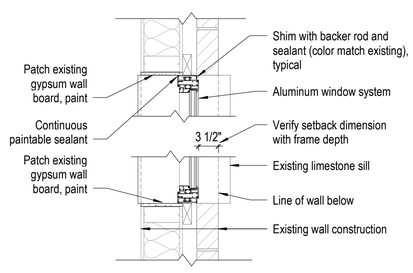
Note:
Protect in place all existing construction to remain.



2 Window Head & Sill Detail

A-601 1" = 1'-0"

Note:
Protect in place all existing construction to remain.



3 Window Jamb Detail

A-601 1" = 1'-0"

STATE OF MISSOURI
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7/2/2021

Jana Bee Triplett - Architect
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Project Number: 2020.491

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Laboratory Renovation

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FACILITY # 3101017078

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ISSUE DATE: 2 July 2021

CAD DWG FILE: A-SH-01
DRAWN BY: JKy
CHECKED BY: JBT
DESIGNED BY: GW&

SHEET TITLE:

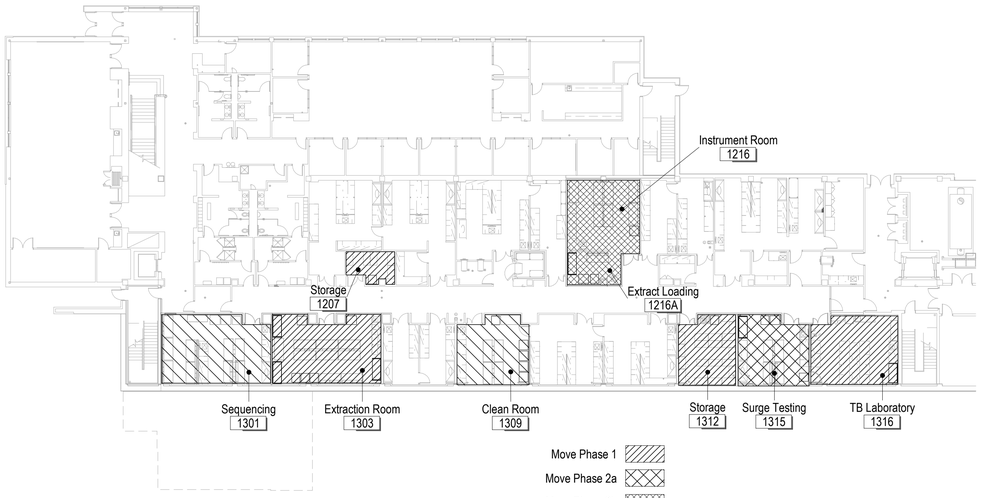
Schedules, Details

SHEET NUMBER:

A-601

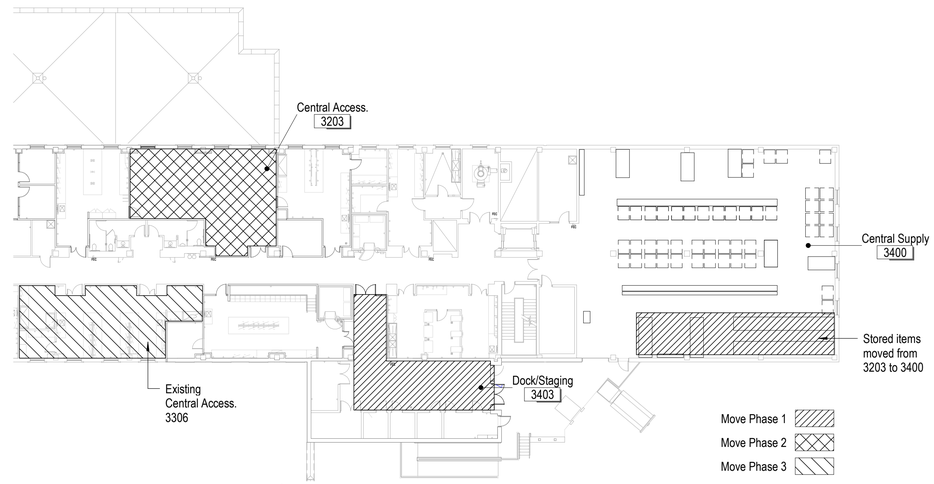
SHEET 013 OF 046

7/2/21



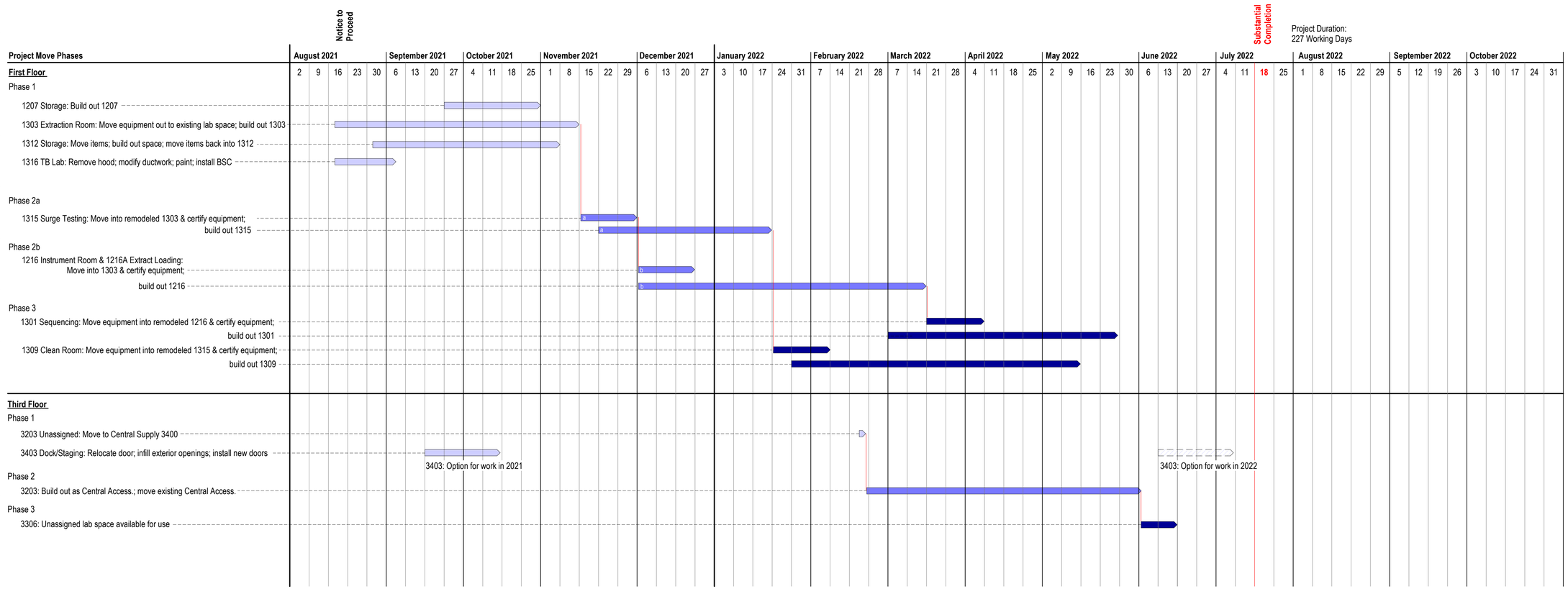
2 Floor 1 - Move Phases

3/64" = 1'-0" 0 4' 8' 16' NORTH



3 Floor 3 - Move Phases

3/64" = 1'-0" 0 4' 8' 16' NORTH



Note:
- Each laboratory move phase includes packing of materials & move, demolition & new construction, move equipment & supplies into remodeled lab space, and equipment certification.

1 Estimated Project Timeline

Not to Scale

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
JANA E BEE TRIPLETT
NUMBER A-2002006831
ARCHITECT
7/2/2021

Jana Bee Triplett - Architect
MO# 2002006831

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101 N. Chestnut Street
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SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: A-DG-01
DRAWN BY: JKy
CHECKED BY: JBT
DESIGNED BY: GW&

SHEET TITLE:

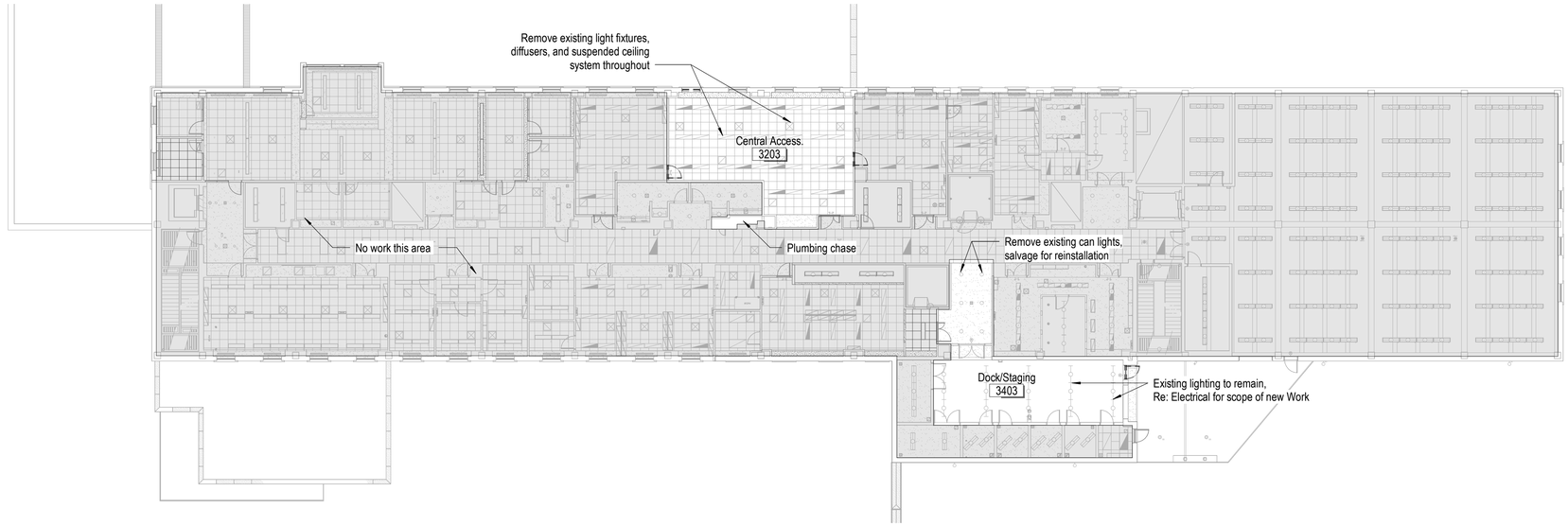
Project Timeline, Phasing

SHEET NUMBER:

A-602

SHEET 014 OF 046

7/2/21



2 Floor 3 - Ceiling Plan - Demo

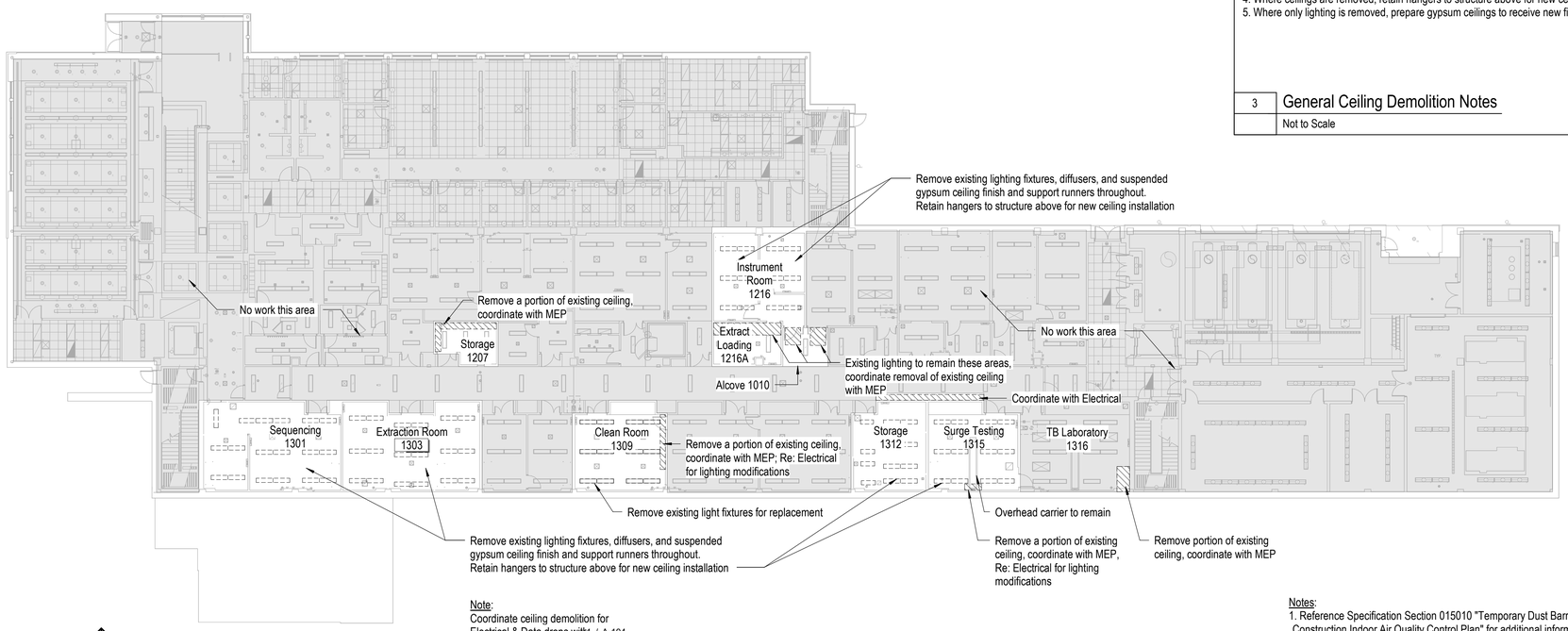
1/16" = 1'-0" 0 4' 8' 16' NORTH

Ceiling Demolition Notes:

1. Demolish and remove all elements shown as dashed or as indicated. Coordinate the removal of associated MEP elements.
2. Contractor shall remove, haul off site, and dispose of all existing construction not to be salvaged.
3. Protect existing fire sprinkler system. Modifications to occur with revised layouts, new ceiling, and lighting installations.
4. Where ceilings are removed, retain hangers to structure above for new ceiling systems.
5. Where only lighting is removed, prepare gypsum ceilings to receive new finishes.

3 General Ceiling Demolition Notes

Not to Scale



Note:
Coordinate ceiling demolition for Electrical & Data drops with 1 / A-104

Notes:
1. Reference Specification Section 015010 "Temporary Dust Barriers and Construction Indoor Air Quality Control Plan" for additional information.

1 Floor 1 - Ceiling Plan - Demo

1/16" = 1'-0" 0 4' 8' 16' NORTH

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
JANA E BEE TRIPLETT
NUMBER A-2002006831
ARCHITECT

7/2/2021

Jana Bee Triplett - Architect
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: A-DP-02
DRAWN BY: JKy
CHECKED BY: JBT
DESIGNED BY: GW&

SHEET TITLE:

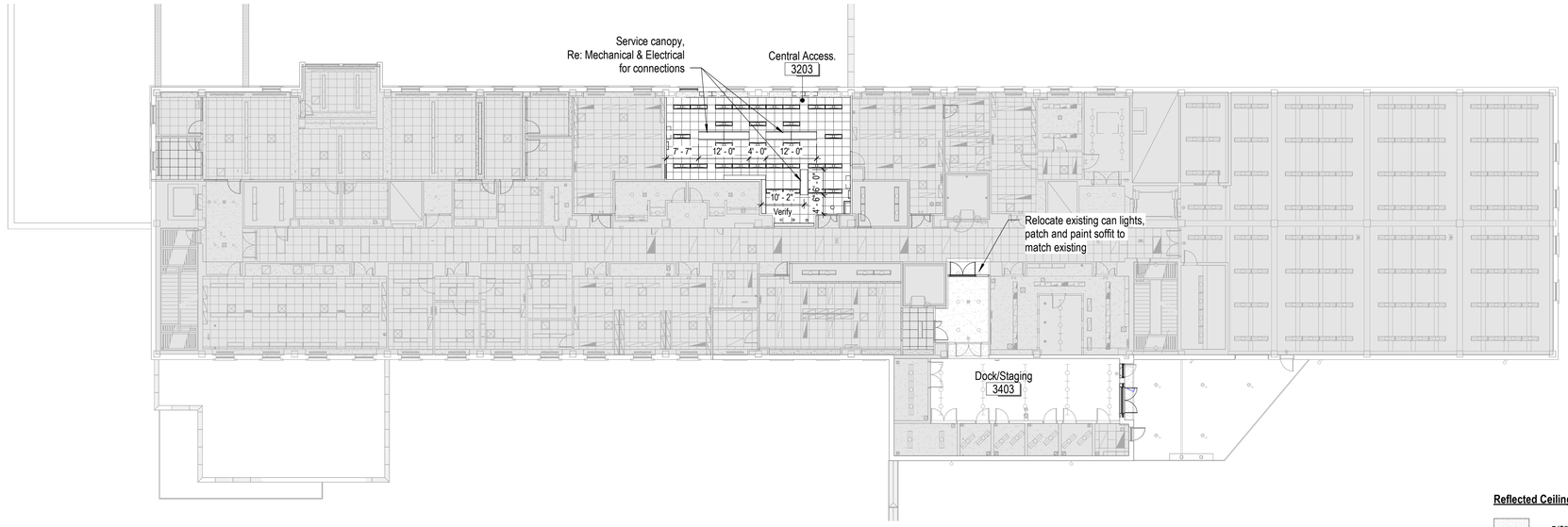
First and Third Floor Demolition - Reflected Ceiling Plans

SHEET NUMBER:

A-701

SHEET 015 OF 046

7/2/21



Reflected Ceiling Legend:

- 5/8" suspended gypsum wall board ceiling system
- 2'x2' acoustical tile ceiling system
- 1'x4' light fixture, Re: Electrical

2 Floor 3 - Ceiling Plan

1/16" = 1'-0"

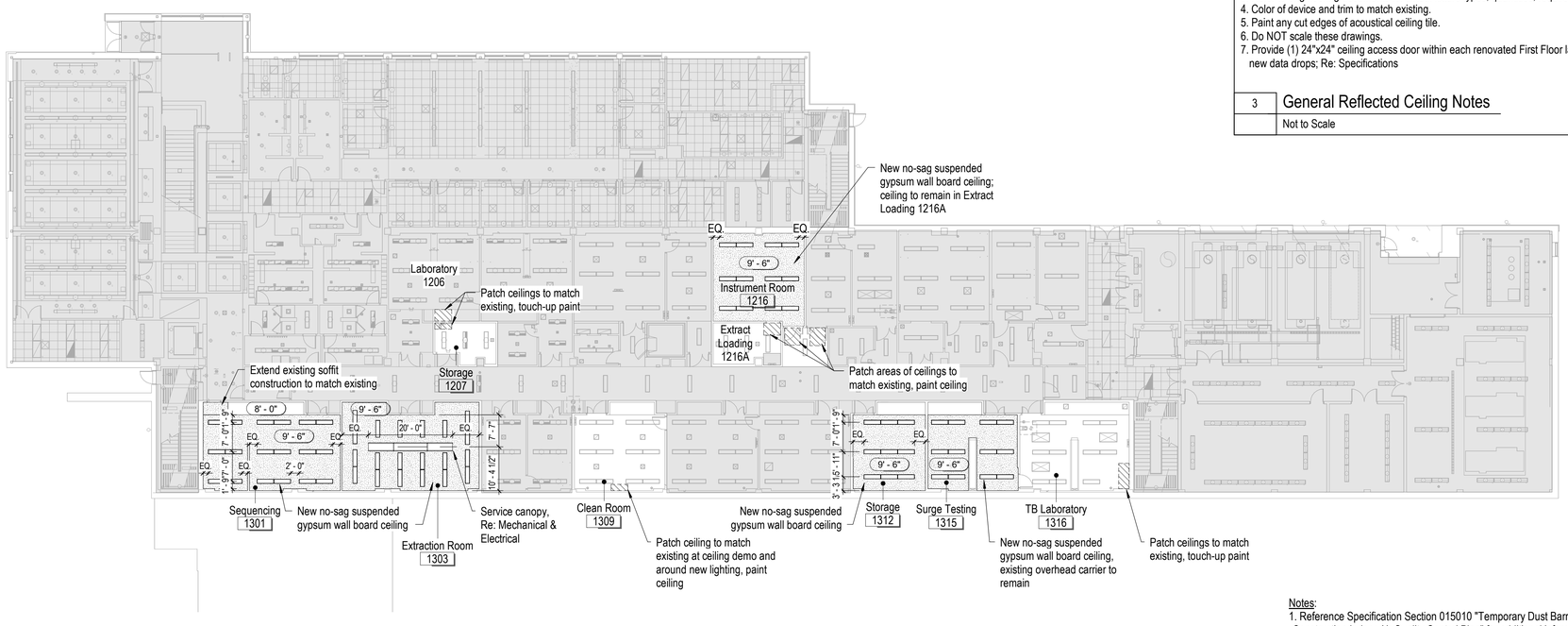
0 4' 8' 16' NORTH

Reflected Ceiling Plan Notes:

1. New ceilings to match existing.
2. Refer to engineering documents for HVAC systems, fire protection and life safety systems, exit signage, emergency lighting, strobe lights, etc.
3. Refer to engineering documents for actual fixture types, quantities, requirements, and specifications.
4. Color of device and trim to match existing.
5. Paint any cut edges of acoustical ceiling tile.
6. Do NOT scale these drawings.
7. Provide (1) 24"x24" ceiling access door within each renovated First Floor laboratory, coordinate location with new data drops; Re: Specifications

3 General Reflected Ceiling Notes

Not to Scale



Notes:
1. Reference Specification Section 015010 "Temporary Dust Barriers and Construction Indoor Air Quality Control Plan" for additional information.

1 Floor 1 - Ceiling Plan

1/16" = 1'-0"

0 4' 8' 16' NORTH

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MIKE PARSON,
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DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
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PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

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CAD DWG FILE: A-RC-02
DRAWN BY: JKy
CHECKED BY: JBT
DESIGNED BY: GW&

SHEET TITLE:

First and Third Floor - Reflected Ceiling Plans

SHEET NUMBER:

A-702

SHEET 016 OF 046

7/2/21

ABBREVIATIONS

ABBREV.	DESCRIPTION
AAV	AUTOMATIC AIR VENT
ABAN	ABANDON
ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AF	AFTER FILTER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
ATM	ATMOSPHERE
ATMV	ATMOSPHERIC VENT
AWT	AVERAGE WATER TEMPERATURE
BB	BAR BARRIER
BDD	BACKDRAFT DAMPER
BFWP	BOILER FEED WATER PUMP
BFW	BOILER FEED WATER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLWDN	BLOWDOWN
BS	BLOWDOWN SEPARATOR
BLR	BOILER
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BOD	BOTTOM OF DUCT
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
C	CONVERTER
C/C	CENTER TO CENTER
CC	COOLING COIL
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CFP	CHEMICAL FEED PUMP
CHD	CONCEALED HAND DAMPER W/ REMOTE OPERATOR
CH	CHILLER
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDENSATE
CONDSR	CONDENSOR
CONN	CONNECTION
CONT	CONTINUATION/CONTINUOUS
CONV	CONVECTOR
COP	COEFFICIENT OF PERFORMANCE
CP	CONTROL PANEL
CPF	CHEMICAL POT FEEDER
CRP	CONDENSATE RETURN PUMP
CT	COOLING TOWER
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
DB	DRY BULB
DEG	DEGREE FAHRENHEIT
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DLV	DOOR LOUVER
DMPR	DAMPER
DN	DOWN
DR	DRAIN
DWG	DRAWING
EX	EXISTING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EDBT	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
ENT	ENTERING
EQ	EQUAL
ET	EXPANSION TANK
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
EWBT	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
FA	FACE AREA
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FF	FINAL FILTER
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FLA	FULL LOAD AMP
FMD	FLOW MEASURING DEVICE
FPM	FEET PER MINUTE
FSD	FIRE AND SMOKE DAMPER
FSS	FLOW SENSING SWITCH
FT	FEET

ABBREVIATIONS

ABBREV.	DESCRIPTION
FTR	FINNED TUBE RADIATION
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GRD	GROUND
GPM	GALLON PER MINUTE
GRL	GRILLE
GSNK	GOOSENECK
HC	HEATING COIL
HX	HEAT EXCHANGER
HORIZ	HORIZONTAL
HP	HORSEPOWER
HP	HIGH PRESSURE
HPT	HIGH POINT
HTG	HEATING
HZ	HERTZ
IN	INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LD	LINEAR DIFFUSER
LDBT	LEAVING DRY BULB TEMPERATURE
LWBT	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M	MOTORIZED DAMPER
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBTU	BRITISH THERMAL UNIT (1000)
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPWT	OPERATING WEIGHT
P	PUMP
PA	PIPE ANCHOR
PCF	POUNDS PER CUBIC FOOT
PEN	PENETRATION
PERF	PERFORATOR
PL	PLATE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH (ABSOLUTE)
PSIG	POUNDS PER SQUARE INCH (GAUGE)
RA	RETURN AIR
RD	RETURN DIFFUSER
RET	RETURN
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
S	STEAM TRAP
SA	SUPPLY AIR
SD	SUPPLY DIFFUSER
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SQ FT	SQUARE FEET
SRV	SAFETY RELIEF VALVE
SS	STEAM SEPARATOR
SST	STAINLESS STEEL
ST	SOUND ATTENUATOR
STL	STEEL
STM	STEAM
STRUCT	STRUCTURAL
TEMP	TEMPERATURE
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TG	TRANSFER GRILLE
THK	THICK
TNL	TUNNEL
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
W/	WITH
WB	WET BULB
WC	WATER COLUMN
WF	WATER FILTER
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
W/O	WITHOUT
WT	WEIGHT
WS	WATER SOFTENER

MECHANICAL SHEET METAL SYMBOLS

- EXISTING DUCTWORK TO REMAIN
- EXISTING DUCTWORK TO BE REMOVED
- NEW DUCTWORK
- HD — HAND DAMPER IN DUCT
- CHD — HAND DAMPER IN CONCEALED DUCT W/ CONCEALED DAMPER ACTUATOR
- HUMIDIFIER IN DUCT
- B, AD — FIRE DAMPER WITH HINGED ACCESS DOOR (B) DENOTES 'B' STYLE DAMPER
- S, AD — SMOKE DAMPER WITH HINGED ACCESS DOOR
- F, AD — COMBINATION FIRE/SMOKE DAMPER WITH HINGED ACCESS DOOR
- RECTANGULAR TO ROUND BRANCH CONNECTION FROM MAIN DUCT
- HD — RECTANGULAR TO ROUND BRANCH CONNECTION FROM MAIN DUCT WITH HAND DAMPER IN ROUND SECTION
- RECTANGULAR TO ROUND TRANSITION
- HD — RECTANGULAR TO ROUND TRANSITION WITH HAND DAMPER
- A, 300 — CEILING SUPPLY OUTLET. (A) DENOTES DIFFUSER TYPE. (300) DENOTES CFM. SEE SCHEDULE FOR SIZE. ARROWS INDICATE DIRECTION OF THROW. NO ARROWS INDICATE 4-WAY THROW.
- A, 300 — CEILING SUPPLY OUTLET WITH FLEXIBLE DUCT CONNECTION. (A) DENOTES DIFFUSER TYPE. (300) DENOTES CFM. SEE SCHEDULE FOR FACE SIZE AND FLEXIBLE DUCT (NECK) SIZE. ARROWS INDICATE DIRECTION OF THROW. NO ARROWS INDICATE 4-WAY THROW.
- A, 300 — CEILING RETURN OR EXHAUST GRILLE (A) DENOTES GRILLE TYPE. (300) DENOTES CFM. SEE SCHEDULE FOR SIZE.
- A, 600 — WALL SUPPLY GRILLE (A) DENOTES GRILLE TYPE. (600) DENOTES CFM. SEE SCHEDULE FOR SIZE.
- A, 600 — WALL RETURN OR EXHAUST GRILLE (A) DENOTES GRILLE TYPE. (600) DENOTES CFM. SEE SCHEDULE FOR SIZE.
- VAV, 1-1 — VARIABLE AIR VOLUME BOX
- VAV, 1-1 — VARIABLE AIR VOLUME BOX WITH REHEAT COIL
- W, A, 300 — CEILING RETURN GRILLE WITH LINED BOOT ABOVE FINISH CEILING - FREE AREA OF BOOT = 2/3 OF GRILLE FACE. (A) DENOTES GRILLE TYPE. (300) DENOTES CFM. SEE DIFFUSER SCHEDULE FOR SIZE.
- W — LINED RETURN AIR BOOT WITH TURNING VANES ABOVE CEILING - SIZE OF BOOT IS INDICATED ON DRAWINGS
- FTU, 1-1 — FAN POWERED TERMINAL UNIT
- SAV, 1-1 — AIR CONTROL VALVE. SAV DENOTES SUPPLY AIR VALVE, GEV DENOTES GENERAL EXHAUST VALVE AND HEV DENOTES HOOD EXHAUST VALVE.

MECHANICAL PIPING SYMBOLS

- EXISTING PIPING TO REMAIN
- EXISTING PIPING TO BE REMOVED
- NEW PIPING
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- LPS — STEAM SUPPLY (LOW PRESSURE)
- LPR — STEAM RETURN (LOW PRESSURE)
- MPS — STEAM SUPPLY (MEDIUM PRESSURE)
- MPR — STEAM RETURN (MEDIUM PRESSURE)
- HPS — STEAM SUPPLY (HIGH PRESSURE)
- HPR — STEAM RETURN (HIGH PRESSURE)
- SV — STEAM RELIEF VENT
- CWS — CHILLED WATER SUPPLY
- CWR — CHILLED WATER RETURN
- RS — REFRIGERANT SUCTION PIPING
- RL — REFRIGERANT LIQUID PIPING
- HG — HOT GAS PIPING
- PD — PUMP DISCHARGE
- CD — CONDENSATE DRAIN PIPING
- T — THERMOSTAT
- H — HUMIDISTAT
- CONNECTION - NEW TO EXISTING
- FLOAT AND THERMOSTATIC TRAP
- SHUT-OFF VALVE
- BALANCING VALVE
- GLOBE VALVE
- CHECK VALVE (SWING OR CUSHION)
- CONTROL VALVE
- LUBRICATED PLUG COCK
- SOLENOID VALVE
- PRESSURE RELIEF VALVE
- PRESSURE REDUCING VALVE
- WYE STRAINER
- UNION
- PIPE ANCHOR
- FLOW ELEMENTS
- DIRECTION OF FLOW IN PIPES
- DIRECTION OF PITCH IN PIPES
- RISE AND DROP IN PIPING
- BRANCH PIPING CONNECTION (TOP OF PIPE)
- BRANCH PIPING CONNECTION (BOTTOM OF PIPE)
- WELDED ELBOW
- EXPANSION JOINT

TEMPERATURE CONTROLS SYMBOLS

- ELECTRIC WIRING
- PARALLEL BLADE DAMPER
- OPPOSED BLADE DAMPER
- HUMIDIFIER
- AVERAGE SENSING ELEMENT
- AIR FLOW PROBE
- DAMPER ACTUATOR
- 1-1/2" AIR GAGE
- 3-1/2" DIAL THERMOMETER
- T — ROOM THERMOSTAT
- M — MOTOR STARTER
- DP — DIFFERENTIAL PRESSURE SWITCH
- ES — END SWITCH
- HL — HIGH LIMIT SWITCH
- HS — HUMIDITY SENSOR
- HX — HEAT EXCHANGER
- SD — SMOKE DETECTOR
- SP — STATIC PRESSURE SENSOR
- TS — TEMPERATURE SENSOR
- VFD — VARIABLE FREQUENCY DRIVE
- VS — VELOCITY SENSOR
- LOCATED IN CONTROL CABINET
- AI — ANALOG INPUT
- AO — ANALOG OUTPUT
- C — COMMON
- DA — DIRECT ACTING
- DDC — DIRECT DIGITAL CONTROL
- DI — DIGITAL INPUT
- DO — DIGITAL OUTPUT
- NC — NORMALLY CLOSED
- NO — NORMALLY OPEN
- POF — PROOF OF FLOW
- RA — REVERSE ACTING
- S/S — START/STOP
- CR — CURRENT RELAY

PLUMBING SYMBOLS

- C — COLD WATER PIPING
- H — HOT WATER PIPING
- HC — HOT WATER CIRCULATING PIPING
- IC — INDUSTRIAL COLD WATER PIPING
- IH — INDUSTRIAL HOT WATER PIPING
- IHC — INDUSTRIAL HOT WATER CIRCULATING PIPING
- VENT PIPING
- WASTE PIPING
- SW — SAFE WASTE PIPING
- DS — DOWNSPOUT PIPING
- EDS — EMERGENCY DOWNSPOUT PIPING
- NG — NATURAL GAS PIPING
- AW — ACID WASTE PIPING
- AV — ACID VENT PIPING
- PW — PURE WATER PIPING
- SC — SOFT COLD WATER PIPING
- CO2 — CARBON DIOXIDE PIPING
- ETO — ETHYLENE OXIDE PIPING
- PD — PUMP DISCHARGE
- TW — TEMPERED WATER PIPING
- VAC — VACUUM PIPING
- CA — COMPRESSED AIR PIPING
- LAB OR WALL OUTLET. SEE PLANS FOR TYPE
- CO — CLEANOUT
- FCO — FLOOR CLEANOUT
- RD — ROOF DRAIN
- ERD — EMERGENCY ROOF DRAIN
- FD — FLOOR DRAIN
- FFD — FLOOR DRAIN WITH FUNNEL
- SFD — SAFE WASTE FLOOR DRAIN
- HB — HOSE BIBB
- WH — WALL HYDRANT
- L VTR — VENT THRU ROOF
- SHUT-OFF VALVE
- BALANCING VALVE
- GLOBE VALVE
- CHECK VALVE (SWING OR CUSHION)
- CONTROL VALVE
- LUBRICATED PLUG COCK
- SOLENOID VALVE
- PRESSURE RELIEF VALVE
- PRESSURE REDUCING VALVE
- WYE STRAINER
- UNION
- PIPE ANCHOR
- FLOW ELEMENTS
- DIRECTION OF FLOW IN PIPES
- DIRECTION OF PITCH IN PIPES
- RISE AND DROP IN PIPING
- BRANCH PIPING CONNECTION (TOP OF PIPE)
- BRANCH PIPING CONNECTION (BOTTOM OF PIPE)
- WELDED ELBOW
- EXPANSION JOINT

FIRE PROTECTION SYMBOLS

- SP — STANDPIPE PIPING (WET TYPE)
- S — SPRINKLER PIPING (WET TYPE)
- F — FIRE SERVICE PIPING
- ID — INSPECTOR TEST DRAIN
- FPS — FIRE PUMP SUCTION PIPING
- EXISTING SPRINKLER HEAD
- NEW SPRINKLER HEAD
- FV — FIRE DEPARTMENT HOSE VALVE
- FS — SPRINKLER FLOW INDICATOR SWITCH
- TS — TAMPER SWITCH
- FIRE DEPARTMENT CONNECTION

GENERAL BIOSAFETY LEVEL 3 (BL3) NOTES

1. THE FIRST FLOOR LABORATORIES AND LABORATORY SUPPORT SPACES ARE LOCATED WITHIN A BSL3 CONTAINMENT AREA. THE FINISHED FLOORS, WALLS AND CEILINGS OF EACH ROOM WITHIN THE BSL3 CONTAINMENT AREA REPRESENT THE CONTAINMENT BARRIER IN EACH SPACE. ALL PENETRATIONS THROUGH CONTAINMENT BARRIERS INTO CONTAINMENT SPACES MUST BE SEALED TO MAINTAIN THE INTEGRITY OF BSL3 SPACES.
4. ALL DUCTWORK, PIPING AND CONDUIT PENETRATIONS THROUGH THE SECOND FLOOR SLAB AREA IN MECHANICAL/ELECTRICAL ROOM AREAS SHALL BE LOCATED WITHIN CURBED AREAS TO PREVENT POTENTIAL LEAKS INTO FIRST FLOOR SPACES. FILL PENETRATIONS WITH SILICONE BASED CAULK MATERIAL TO MAINTAIN THE INTEGRITY OF BSL3 CONTAINMENT AREAS AND PROVIDE AN AIRTIGHT SEAL.PENETRATIONS THROUGH THE SECOND FLOOR SLAB TO MAINTAIN CODE REQUIRED ASSEMBLY RATINGS.
6. SEAL AROUND ALL NEW AND EXISTING HANGER, SUPPORT AND ATTACHMENT PENETRATIONS THROUGH CONTAINMENT BARRIERS WITH SILICONE BASED CAULK MATERIAL TO MAINTAIN THE INTEGRITY OF BSL3 CONTAINMENT AREAS.

PROJECT MECHANICAL GENERAL NOTES

(THESE NOTES APPY TO ALL MECHANICAL SHEETS)

1. THE LOCATION OF ALL STRUCTURAL OPENINGS SHALL BE AS INDICATED ON THE MECHANICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS. COORDINATE EXACT SIZES OF OPENINGS REQUIRED.
2. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, DAMPERS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
3. CONTRACTOR SHALL FIELD VERIFY CLEARANCE ABOVE THE CEILING AND NOTIFY THE ENGINEER ABOUT POSSIBLE CONFLICTS.
4. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND SPACE CONDITIONS AT ALL TIMES.
5. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE ALL WORK WITH ALL OTHER TRADES. THE SHOP DRAWINGS PREPARED BY THIS CONTRACTOR SHALL INDICATE SPACE ALLOWANCES FOR ALL WORK OF ALL OTHER TRADES AND SHALL BE SIGNED OFF BY ALL OTHER CONTRACTORS.
6. CONTRACTOR SHALL VERIFY ON-SITE ALL CONDITIONS AND MEASUREMENTS SHOWN ON CONTRACT DRAWINGS.
7. ALL SUPPORTS FOR MECHANICAL EQUIPMENT ARE BASED ON PRELIMINARY INFORMATION FROM ONE MANUFACTURER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING SIZES FROM CERTIFIED DRAWINGS OF EQUIPMENT BEING SUBMITTED AND SHALL MAKE ANY STRUCTURAL MODIFICATIONS REQUIRED WITHOUT ANY ADDITIONAL COST TO THE OWNER.
8. ALL NEW EQUIPMENT FURNISHED BY THE MECHANICAL CONTRACTOR SHALL BE MANUFACTURED INTO COMPONENTS THAT CAN BE MOVED INTO THE BUILDING THROUGH AVAILABLE BUILDING OPENINGS. IF ADDITIONAL BUILDING OPENINGS ARE REQUIRED, THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND MAKE ALL PROVISIONS TO MOVE EQUIPMENT INTO FINAL LOCATION.
9. WHERE EQUIPMENT AND/OR PIPING AND/OR DUCTWORK IS NOTED TO BE DEMOLISHED, COORDINATE WITH GENERAL CONTRACTOR PRIOR TO REMOVAL OR ENSURE THAT REMOVAL OR EQUIPMENT FALLS WITHIN PRESENT CONSTRUCTION LIMITS AND SCOPE OF WORK.
10. ALL STORED AND/OR PARTIALLY INSTALLED SHEET METAL, PIPING, AND EQUIPMENT SHALL BE PROTECTED FROM WEATHER. CONTRACTOR SHALL COVER OPEN ENDS AT END OF WORK DAY.
11. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE BUILDING CODE REQUIREMENTS AND PROVIDE ALL REQUIRED CONTROLLED INSPECTIONS FOR HIS WORK.
12. DUCTWORK SHALL BE INSULATED PER SPECIFICATIONS OR AS NOTED ON DRAWINGS. ALL DUCT JOINTS AND SEAMS SHALL BE SEALED PER SPECIFICATIONS.
13. DUCT AND PLENUM SIZES INDICATED ON THE DRAWINGS ARE SHEET METAL DIMENSIONS.
14. MANUAL DAMPERS SHALL BE PROVIDED IN ALL DUCT BRANCHES AND IN ALL BRANCHES TO INDIVIDUAL DIFFUSERS, GRILLES AND REGISTERS.
15. CONTRACTOR SHALL FURNISH AND INSTALL CONCEALED DAMPER ACTUATORS AND DAMPER WHERE DAMPERS ARE INSTALLED IN INACCESSIBLE CEILINGS.
16. EXACT LOCATIONS OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES DETAILED ON THE ARCHITECTURAL REFLECTIVE CEILING PLAN, AND ARCHITECTURAL ROOM ELEVATIONS.
17. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE MOST RESTRICTIVE OF LOCAL REGULATIONS, PROCEDURES DETAILED IN THE ASHRAE HANDBOOK OF FUNDAMENTALS, OR THE APPLICABLE STANDARDS ADOPTED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA).
18. PROVIDE METAL COVER PLATES FOR ALL PIPES LOCATED AT FLOOR LEVEL TO PREVENT PIPE DAMAGE. PLATES SHALL NOT BE DAMAGED BY NORMAL MAINTENANCE TRAFFIC.
19. ALL BRANCH PIPING TO VAV BOXES, FCUS, OR OTHER COMPONENTS SHALL BE MINIMUM OF 3/4" UNLESS NOTED OTHERWISE.
20. PROVIDE MANUAL AIR VENTS, DRAINS AND RELIEF VALVES AS REQUIRED AT THE HIGH AND LOW POINTS IN THE SYSTEM.
21. PROVIDE VALVED AND CAPPED CONNECTIONS FOR DRAINAGE AT ALL LOW POINTS OF PIPING SYSTEM.
22. MINIMUM PITCH SHALL BE SUFFICIENT TO INSURE ADEQUATE VENTING OR DRAINAGE.
23. CONTRACTOR SHALL COORDINATE INSTALLATION OF HORIZONTAL PIPE RUNS IN THE CEILING PLENUMS WITH ALL TRADES.
24. PROVIDE REDUCER FITTINGS FOR CHANGE IN PIPE SIZE AND FOR FINAL CONNECTION AT EQUIPMENT AND AS REQUIRED TO PERMIT DRAINAGE AND VENTING.
25. ALL PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISERS OF RUNS.
26. THERMOSTAT AND/OR HUMIDISTAT LOCATIONS SHALL BE COORDINATED WITH LIGHT SWITCHES. FINAL LOCATIONS OF THERMOSTAT AND/OR HUMIDISTAT SHALL BE COORDINATED WITH ARCHITECT AND ENGINEER.
27. MECHANICAL CONTRACTOR IS RESPONSIBLE TO INSTALL DUCT MOUNTED SMOKE DETECTOR AS INDICATED ON DESIGN DRAWINGS. DUCT MOUNTED SMOKE DETECTORS ARE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR PER ELECTRICAL SPECIFICATIONS.
28. PROVIDE ESCUTCHEONS AND SEALING OF ALL PENETRATIONS OF FIRE SEPARATIONS IN ACCORDANCE DETAIL DRAWINGS AND PER APPLICABLE CODES AS REFERENCE ON ARCHITECTURAL CODE SHEETS.
29. THIS IS A 24 HOUR OPERATING FACILITY. SO SOME WORK MAY HAVE TO BE DONE AFTER NORMAL WORKING HOURS OR ON WEEKENDS AT NO ADDITIONAL COST TO OWNER. SYSTEM SHUT DOWNS SHALL BE COORDINATED AND SCHEDULE WITH OWNER AT LEAST TWO WEEKS IN ADVANCE.

PROJECT PLUMBING GENERAL NOTES

(THESE NOTES APPY TO ALL PLUMBING SHEETS)

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND SPACE CONDITIONS AT ALL TIMES.
2. COORDINATE PLUMBING SYSTEMS WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
3. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO OWNER.
4. CONTRACTOR SHALL REFER TO ALL THE ARCHITECTURAL DRAWINGS FOR PLUMBING RELATED WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO ENTERING MANHOLES, USE OF WATER FROM LOW PRESSURE HYDRANTS, DEMOLITION AND NEW WORK, ETC. PRIOR TO COMMENCEMENT OF WORK.
6. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
7. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO ALL APPLICABLE LOCAL CODES AND REGULATIONS AS REFERENCED ON ARCHITECTURAL CODE PLANS.
8. WHERE EQUIPMENT AND/OR PIPING IS NOTED TO BE DEMOLISHED, COORDINATE WITH GENERAL CONTRACTOR PRIOR TO REMOVAL TO ENSURE THAT REMOVAL OF EQUIPMENT FALLS WITHIN PRESENT CONSTRUCTION LIMITS AND SCOPE OF WORK. DEMOLITION PLANS SHOW GENERAL INTENT OF DEMOLITION WORK, NOT ALL DEMO WORK MAY BE SHOWN. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ITEMS NOT REQUIRED TO REMAIN.

PROJECT FIRE PROTECTION GENERAL NOTES

(THESE NOTES APPY TO ALL FIRE PROTECTION SHEETS)

1. COORDINATE FIRE PROTECTION SYSTEMS WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
2. COMPLETE SPRINKLER INSTALLATION WITH ALL EQUIPMENT, SPRINKLER HEADS, PIPES, FITTINGS, DRAINS AND HANGERS.
3. UNLESS OTHERWISE NOTED, ALL CONTROL VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES.
4. SPRINKLER PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE. HANGERS AND SUPPORTS SHALL BE UL LISTED APPROVED FOR USE IN SPRINKLER SYSTEMS. WHERE FIELD CONDITIONS DO NOT PERMIT SUPPORTING FROM THE BUILDING STRUCTURE, PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED. NO SPRINKLER PIPING SHALL BE HUNG FROM THE PIPING OF OTHER TRADES OR MECHANICAL SYSTEMS.
5. MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED BETWEEN TOP OF STORAGE AND SPRINKLER DEFLECTOR.
6. FIRE SPRINKLER CONTRACTOR SHALL OBTAIN APPROVAL FROM THE FIRE MARSHAL AND AUTHORITIES HAVING JURISDICTION FOR THE SPRINKLER SYSTEM PRIOR TO INSTALLATION.
7. FIRE SPRINKLER CONTRACTOR SHALL PREPARE AND SUBMIT PRIOR TO ANY FABRICATION AND INSTALLATION OF ALL NECESSARY DRAWINGS AND/OR DOCUMENTS FOR THE PROVISION AND INSTALLATION OF A FULLY AUTOMATIC FIRE SPRINKLER SYSTEM WITHIN THE AREAS OF WORK. IN ACCORDANCE WITH AND SUBJECT TO THE INTERNATIONAL BUILDING AND FIRE CODES AND THE AUTHORITIES HAVING JURISDICTION.
8. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING AND FIRE CODES, AND ALL LOCAL FIRE DEPARTMENT REQUIREMENTS.
9. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

DAVID W. DAWSON NUMBER E-22815 PROFESSIONAL ENGINEER

David W. Dawson 7-2-21
Missouri # E-22815

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

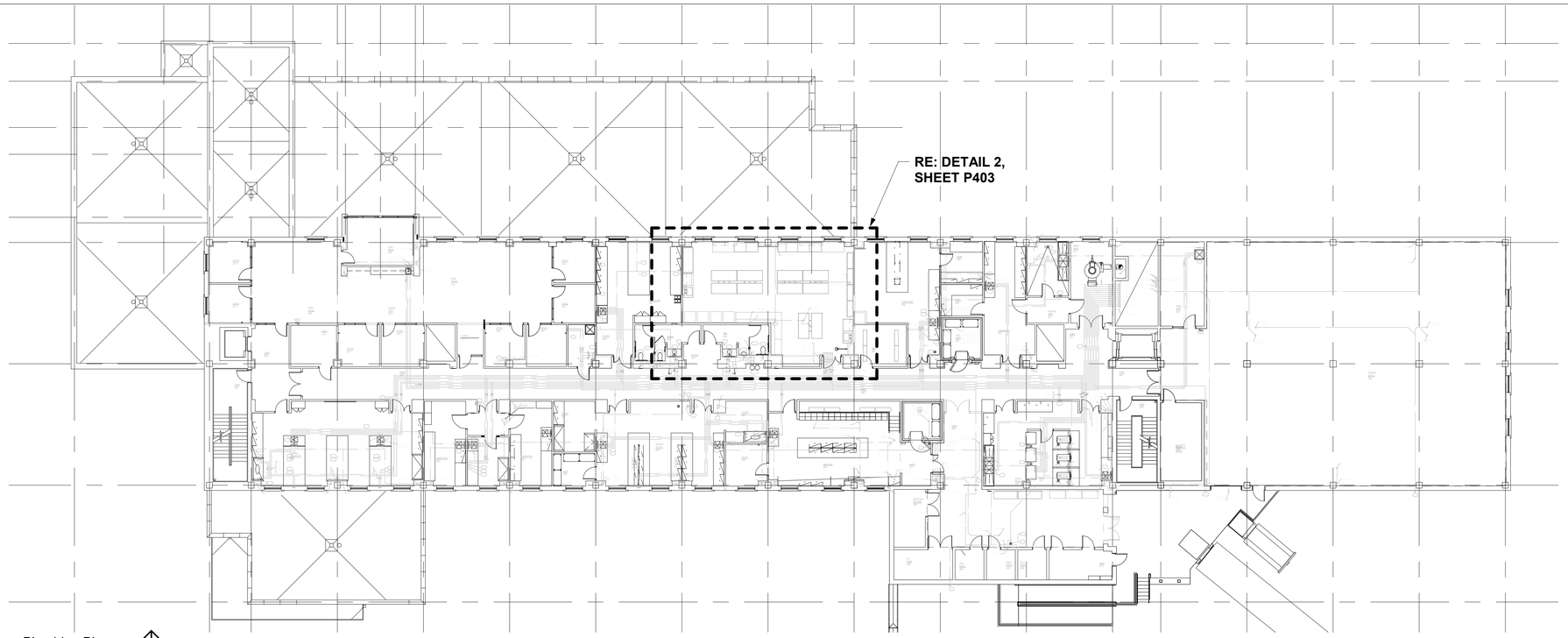
CAD DWG FILE: PM000
DRAWN BY: Author
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:
Symbols, Abbreviations & General Notes

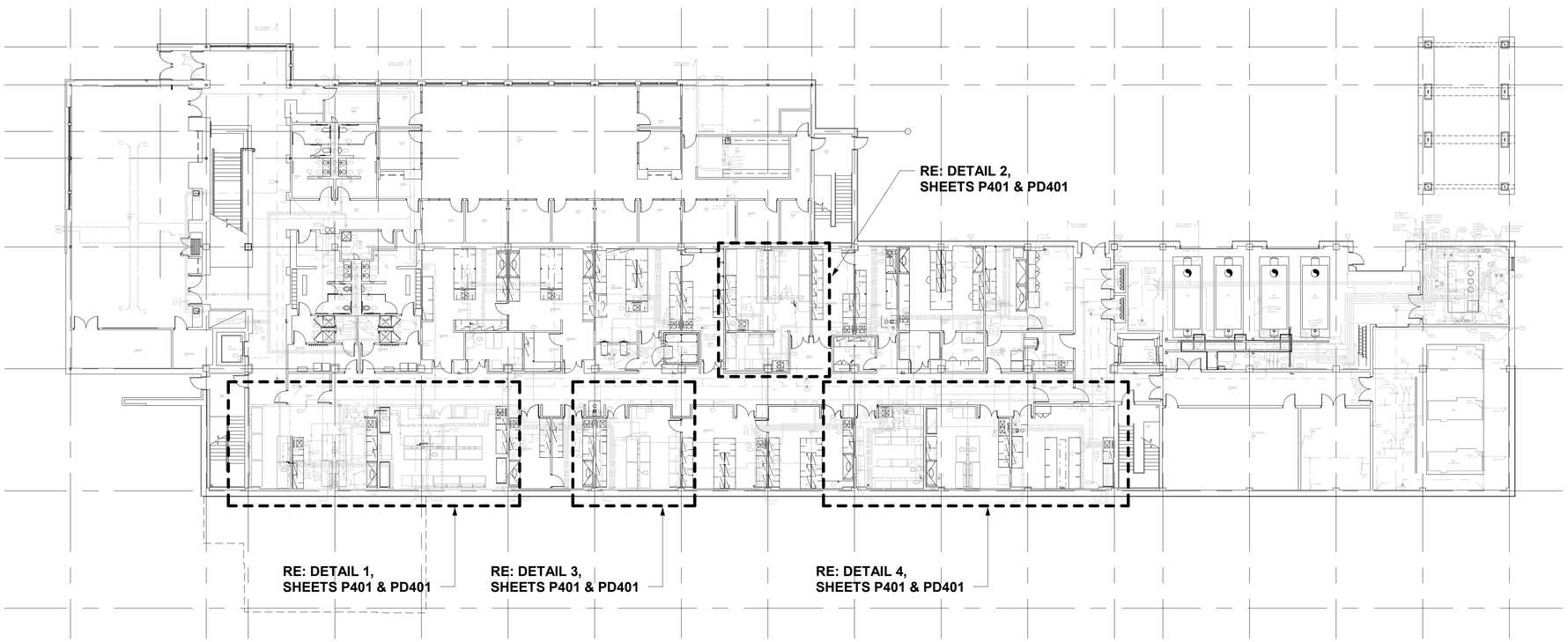
SHEET NUMBER:
PM000

SHEET 017 OF 046

7/2/21



2 Third Floor Plumbing Plan
P101 1/16" = 1'-0"
NORTH



1 First Floor Plumbing Plan
P101 1/16" = 1'-0"
NORTH

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MIKE PARSON,
GOVERNOR

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ISSUE DATE: 2 July 2021

CAD DWG FILE: P101
DRAWN BY: MWM
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:

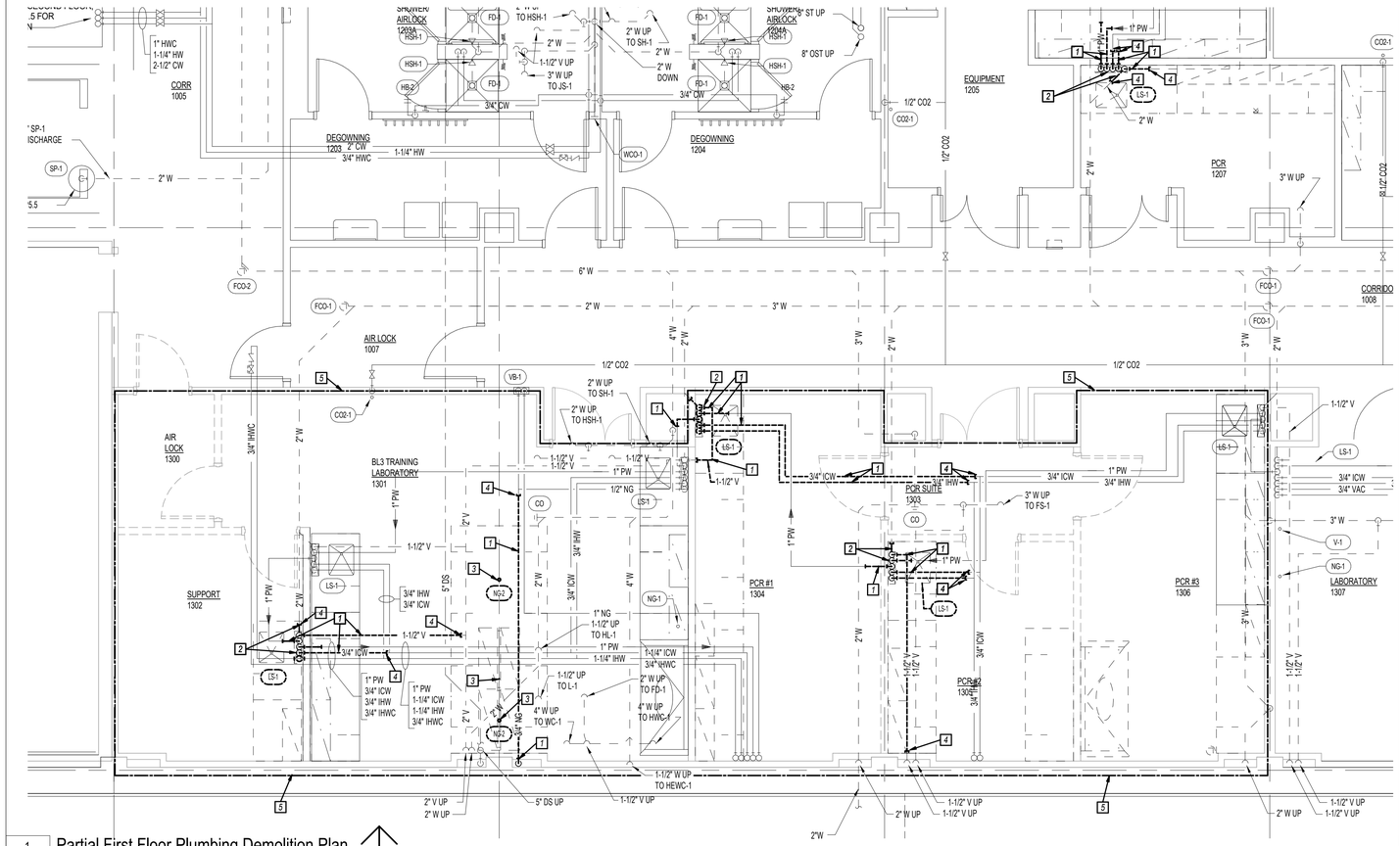
First & Third Floor
Reference Plumbing
Plans

SHEET NUMBER:

P101

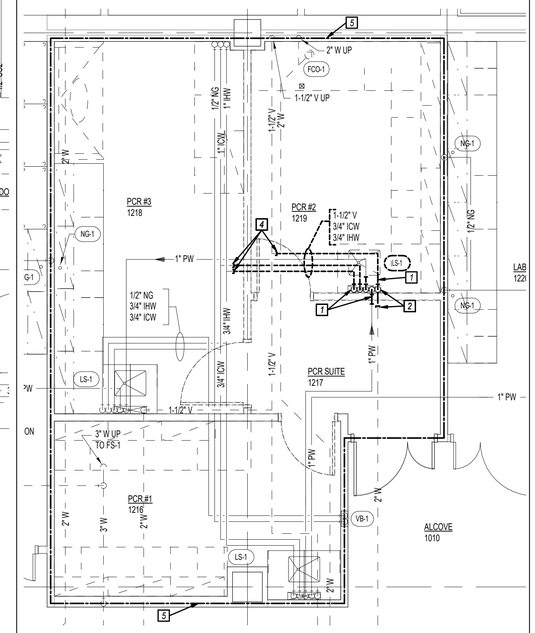
SHEET 018 OF 046

7/2/21



1 Partial First Floor Plumbing Demolition Plan

PD401 1/4" = 1'-0"



2 Partial First Floor Plumbing Demolition Plan

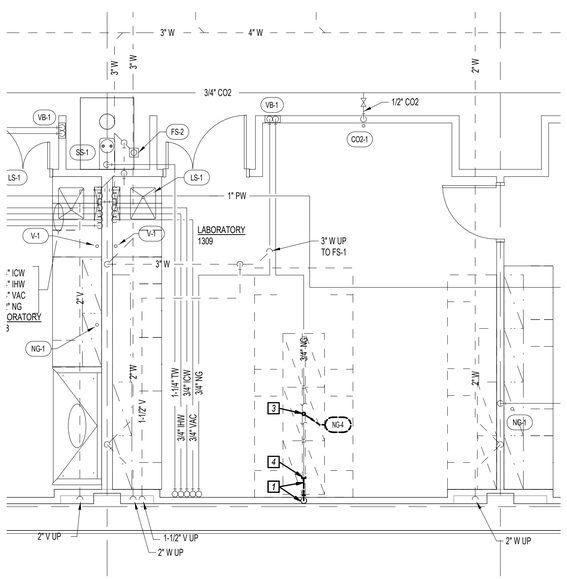
PD401 1/4" = 1'-0"

GENERAL NOTES

1. THIS IS AN OCCUPIED BUILDING & SERVICES SHALL REMAIN IN OPERATION EXCEPT FOR SHORT PERIODS OF TIME AS APPROVED BY THE OWNER. NOTIFICATION OF PLANNED SHUTDOWN SHALL BE SUBMITTED AND APPROVED BY THE OWNER A MIN. OF 2 WEEKS PRIOR TO SHUTDOWN.
2. DEMOLITION PLANS SHOW GENERAL INTENT OF DEMOLITION WORK, NOT ALL DEMO WORK MAY BE SHOWN. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ITEMS NOT REQUIRED TO REMAIN.

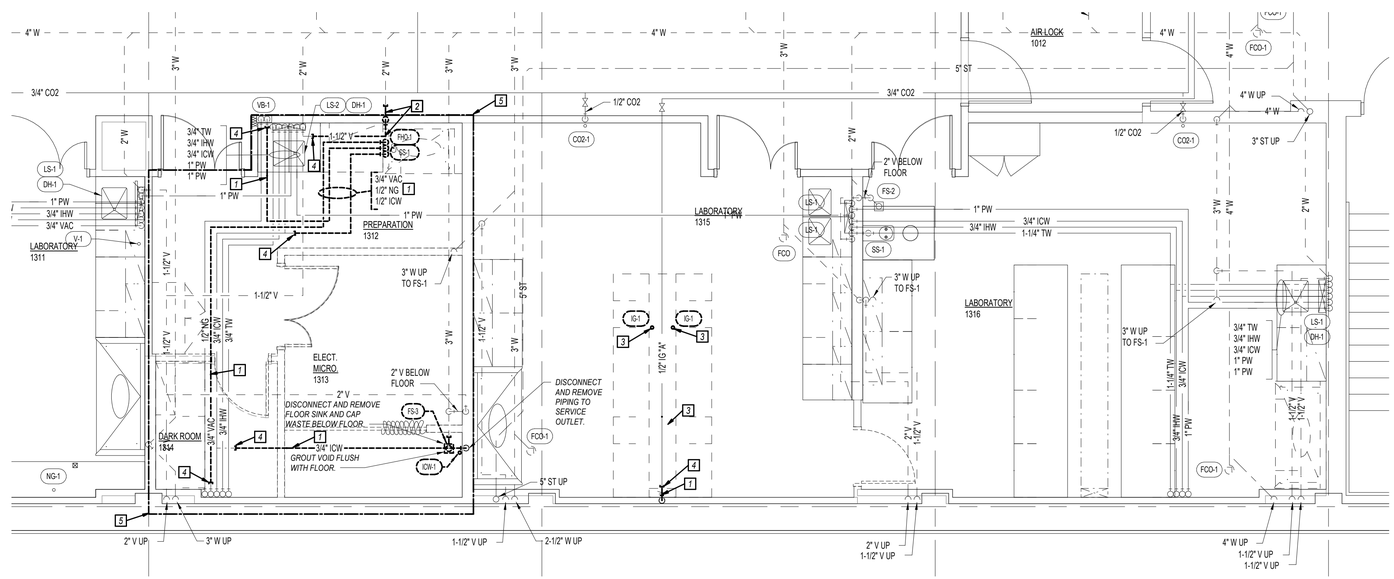
KEYED NOTES 0

1. DISCONNECT AND REMOVE PIPING NOT REQUIRED TO REMAIN. CAP PIPING WHERE NOT RECONNECTED.
2. DISCONNECT AND REMOVE PIPING TO SINK INCLUDING WASTE PIPING. DEMO WASTE PIPING TO BELOW FLOOR. CAP AND GROUT FLOOR TO MATCH EXISTING.
3. DEMO LAB OUTLET SERVICE PIPING IN EXISTING CASEWORK TO BE REMOVED.
4. CAP PIPING.
5. DEMO EXISTING SPRINKLER HEADS AND ASSOCIATED PIPING AS REQUIRED FOR CEILING DEMO AND SPACE REMODEL.



3 Partial First Floor Plumbing Demolition Plan

PD401 1/4" = 1'-0"



4 Partial First Floor Plumbing Demolition Plan

PD401 1/4" = 1'-0"

STATE OF MISSOURI
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OFFICE OF ADMINISTRATION
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State Public Health
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101 N. Chestnut Street
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PROJECT # O2115-01
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FACILITY # 3101017078

REVISION:
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DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: PD401
DRAWN BY: WMW
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:

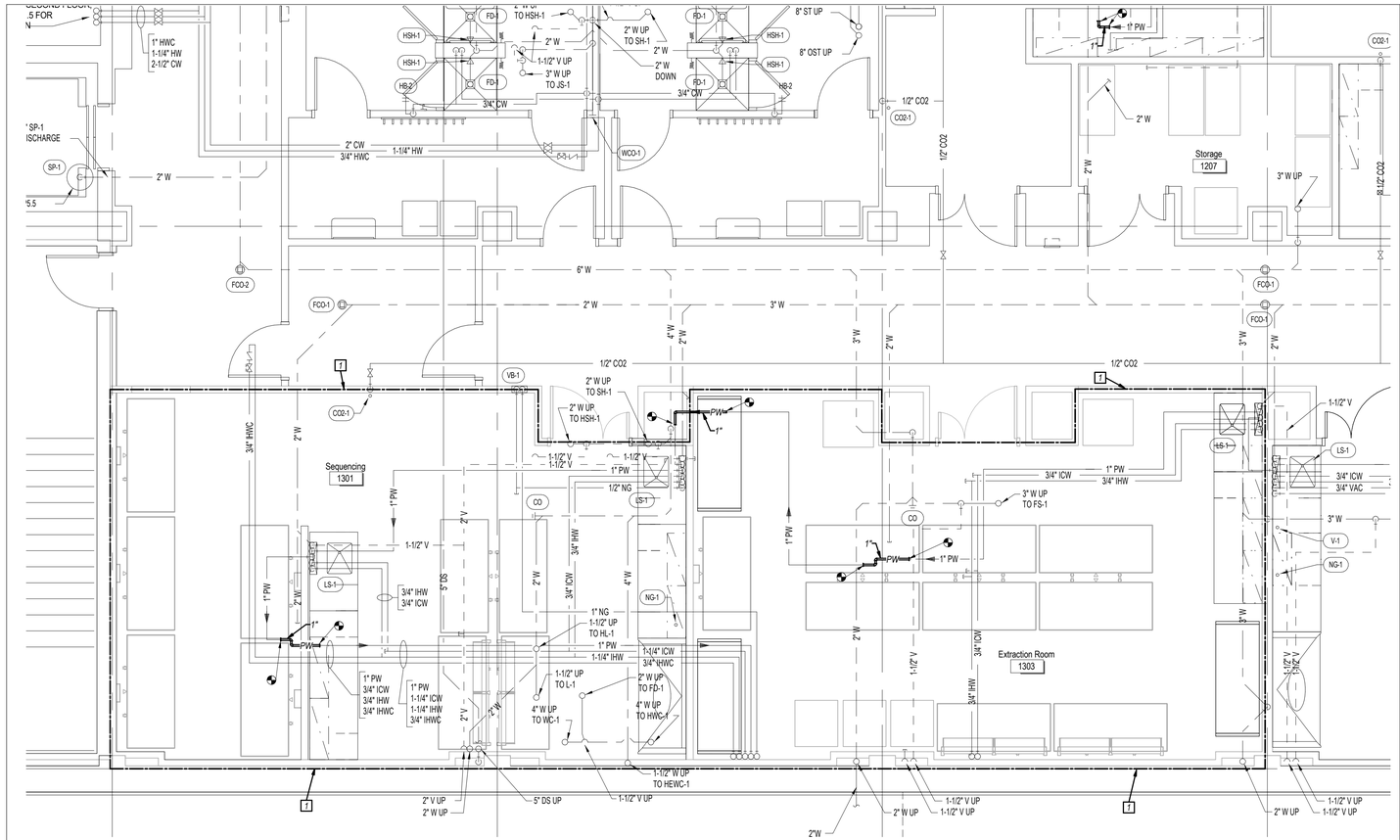
Enlarged First Floor Plumbing Demolition Plans

SHEET NUMBER:

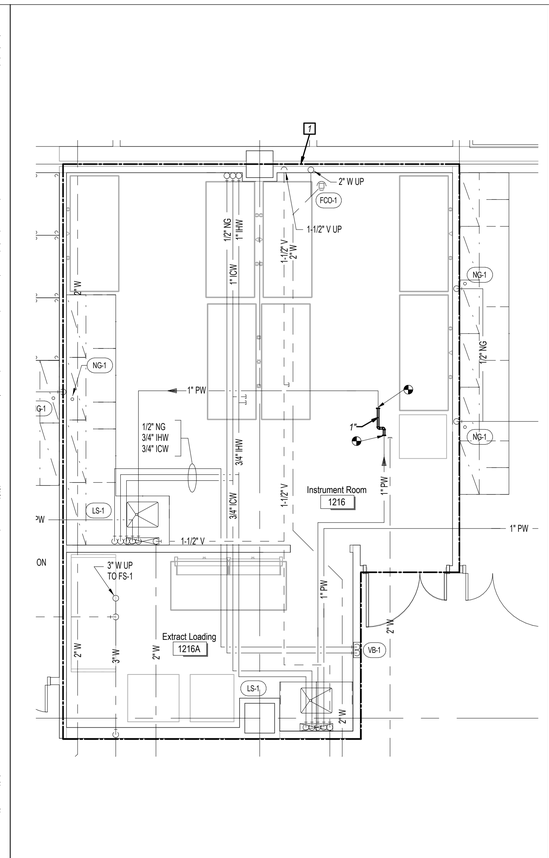
PD401

SHEET 019 OF 046

7/2/21



1 Partial First Floor Plumbing Plan
P401 1/4" = 1'-0"
NORTH



2 Partial First Floor Plumbing Plan
P401 1/4" = 1'-0"
NORTH

GENERAL NOTES

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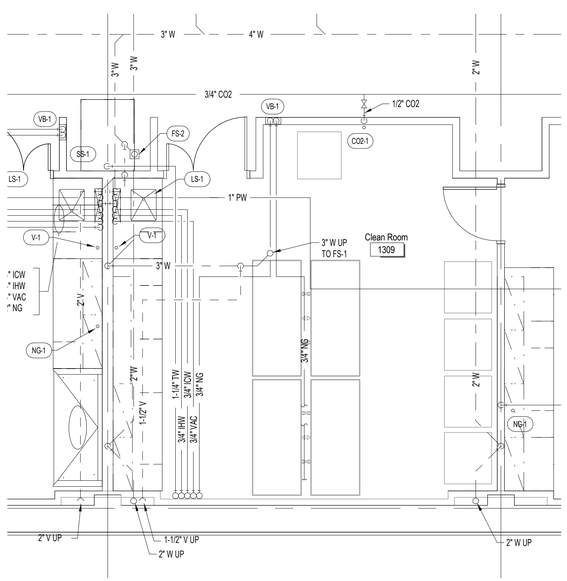
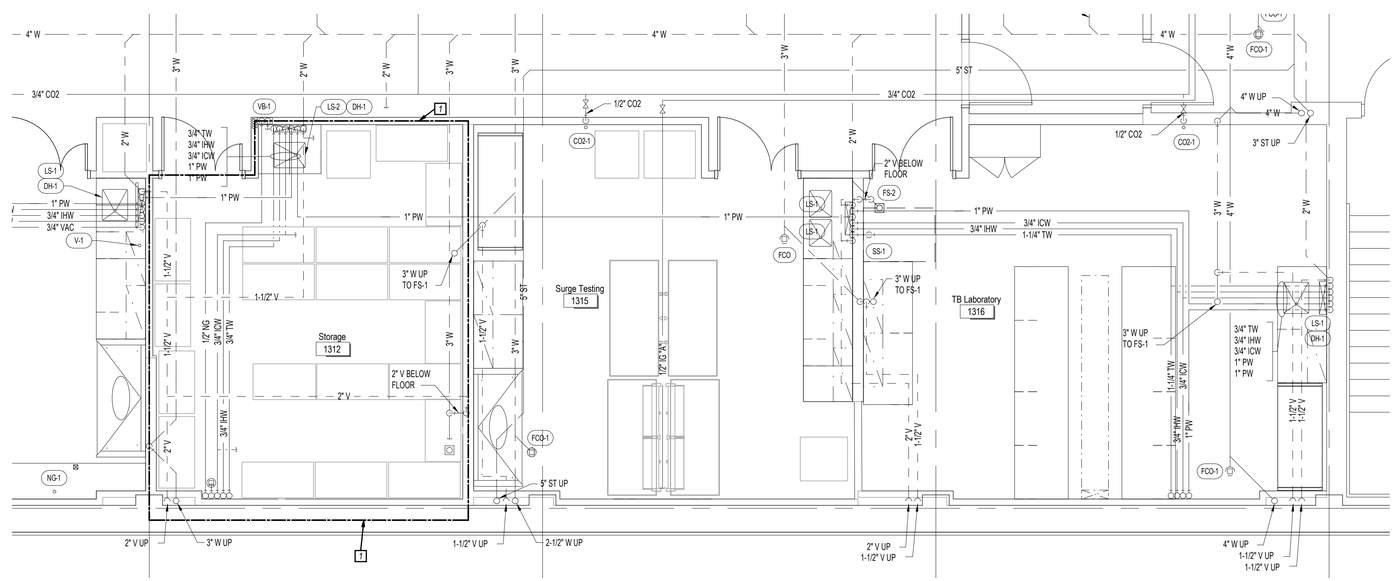
2 SPRINKLER WORK IN REMODELED AREAS SHALL MEET AHU CURRENT NFPA REQUIREMENTS. NO DEMOED OR REMOVED SPRINKLER HEADS SHALL BE REUSED. ALL HEADS SHALL BE QUICK RESPONSE. SPRINKLER HAZARD SHALL BE ORDINARY HAZARD BASED ON 0.15 GPM OVER 2500 SQ FT. HEADS SHALL BE SEMI-RECESSED IN SOFFITS AND PENDANT WITH DEEP ESCUTHEONS IN UPPER BARRIER CEILING TO MATCH EXISTING WITH SATIN CHROME FINISH. SEAL ALL CEILING PENETRATIONS WITH SILICONE CAULK.

KEYED NOTES 0

1 REWORK EXISTING SPRINKLER SYSTEM IN REMODELED AREAS TO MEET NFPA REQUIREMENTS.



3 Partial First Floor Plumbing Plan
P401 1/4" = 1'-0"
NORTH



4 Partial First Floor Plumbing Plan
P401 1/4" = 1'-0"
NORTH

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

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ISSUE DATE: 2 July 2021

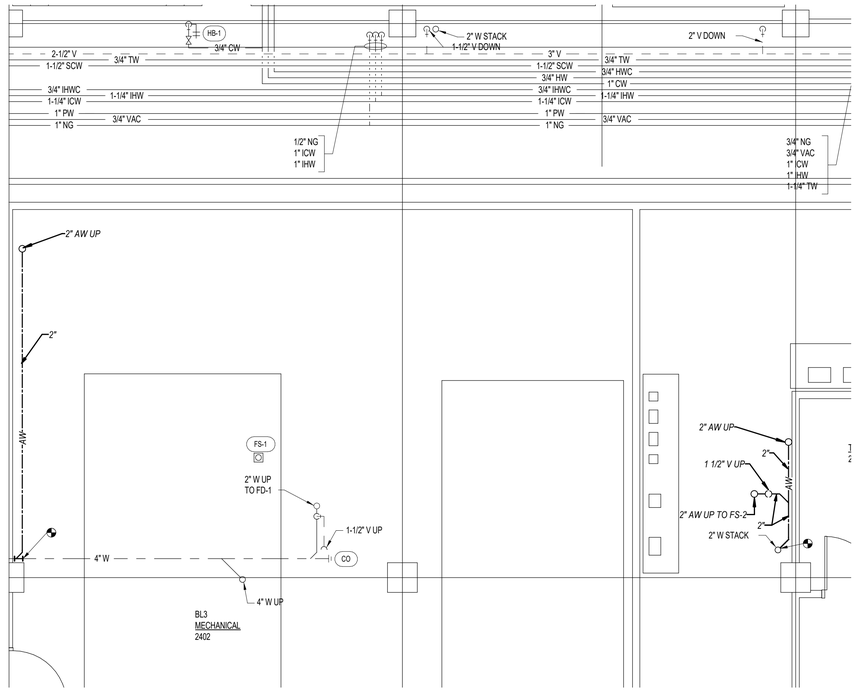
CAD DWG FILE: P401
DRAWN BY: MWM
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:
Enlarged First Floor Plumbing Plans

SHEET NUMBER:
P401

SHEET 020 OF 046

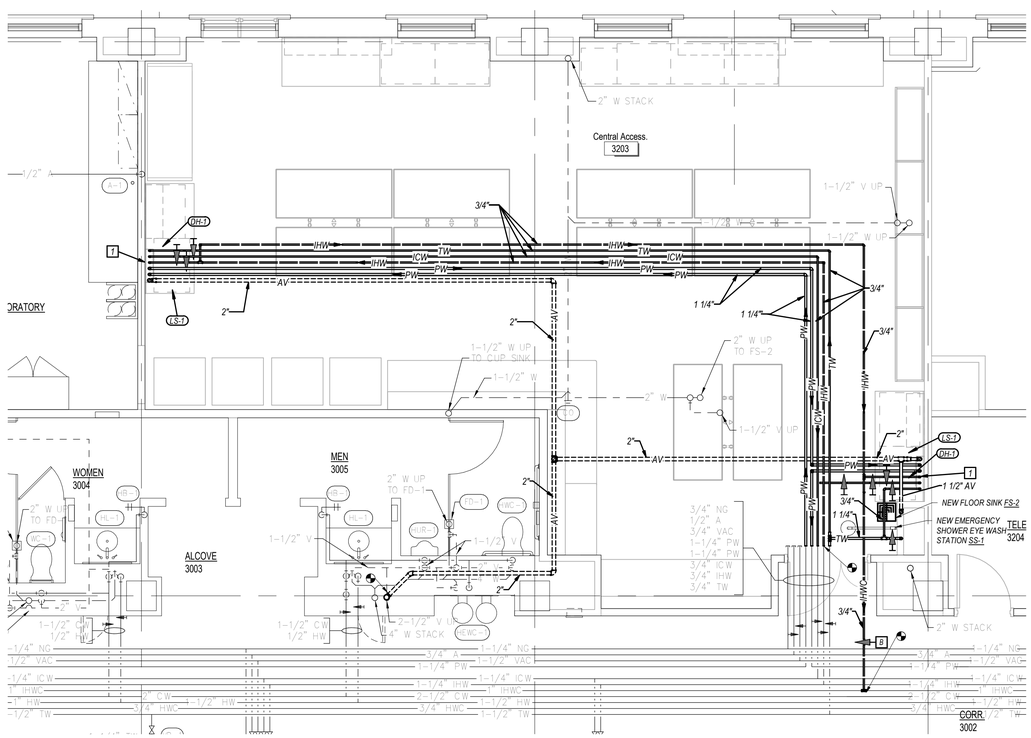
7/2/21



1 Partial Second Floor Plumbing Plan

P403 1/4" = 1'-0"

NORTH



2 Partial Third Floor Plumbing Plan

P403 1/4" = 1'-0"

NORTH

GENERAL NOTES

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2 *SPRINKLER WORK IN REMODELED AREAS SHALL MEET AHJ CURRENT NFPA REQUIREMENTS. NO DEMOED OR REMOVED SPRINKLER HEADS SHALL BE REUSED. ALL HEADS SHALL BE QUICK RESPONSE. SPRINKLER HAZARD SHALL BE ORDINARY HAZARD BASED ON 0.15 GPM OVER 2500 SQ FT. HEADS SHALL BE SEMI-RECESSED IN SOFFITS AND PENDANT WITH DEEP ESCUTHEONS IN UPPER BARRIER CEILING TO MATCH EXISTING WITH SATIN CHROME FINISH. SEAL ALL CEILING PENETRATIONS WITH SILICONE CAULK.*

KEYED NOTES

1 *1-1/2" V, 1-1/4" PW SUPPLY & RETURN, 3/4" IHW, 3/4" IHC & 3/4" TW DOWN IN PIPE ENCLOSURE TO LAB FIXTURES.*

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
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DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: P403
DRAWN BY: MWM
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:

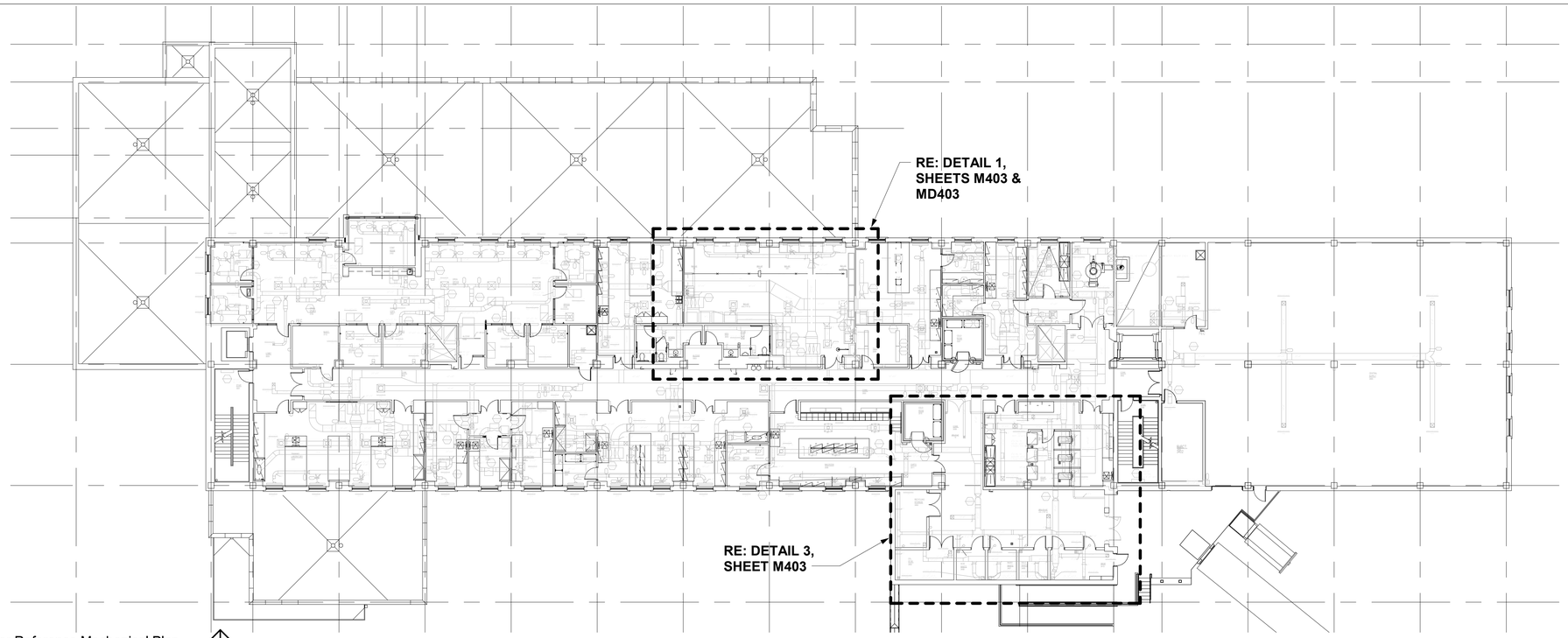
Enlarged Second & Third Floor Plumbing Plans

SHEET NUMBER:

P403

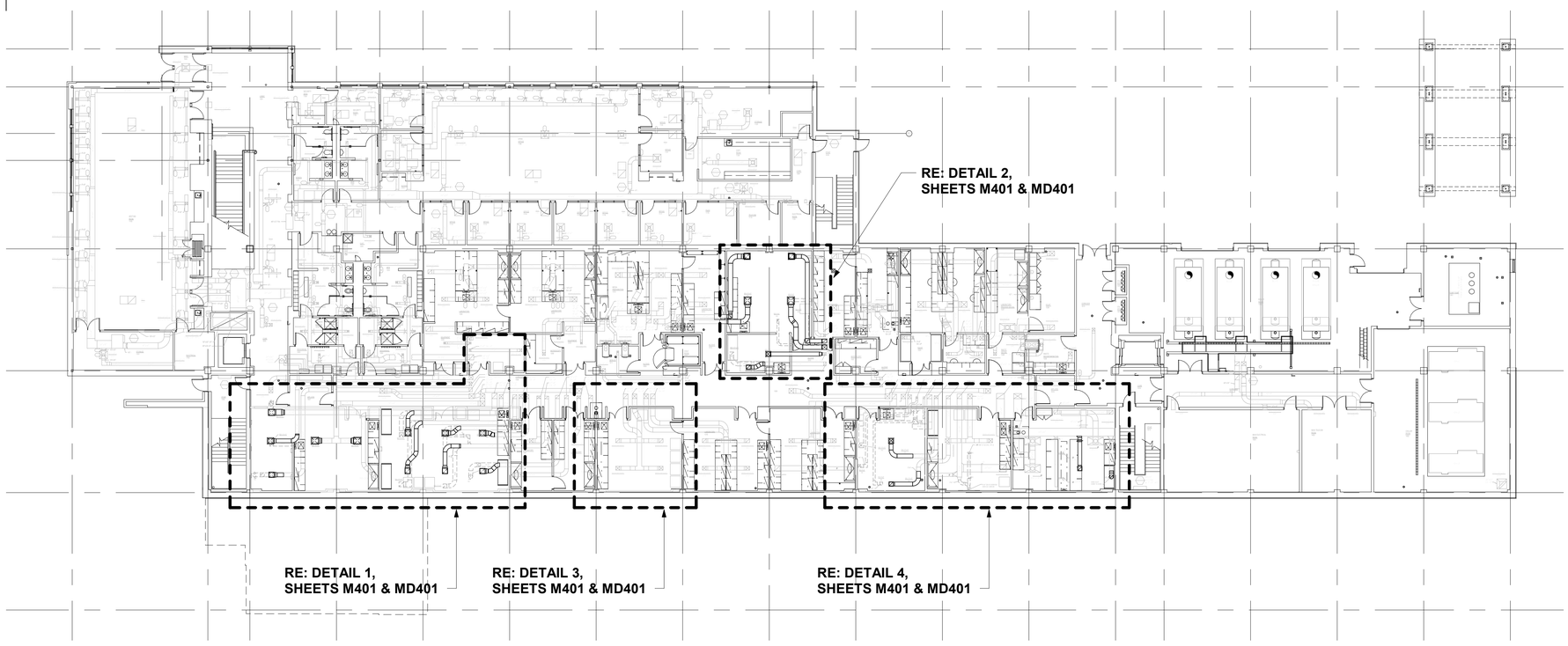
SHEET 021 OF 046

7/2/21



2 Third Floor Reference Mechanical Plan
M101 1/16" = 1'-0"

NORTH



1 First Floor Reference Mechancial Plan
M101 1/16" = 1'-0"

NORTH

STATE OF MISSOURI
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ISSUE DATE: 2 July 2021

CAD DWG FILE: M101
DRAWN BY: MWM
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:

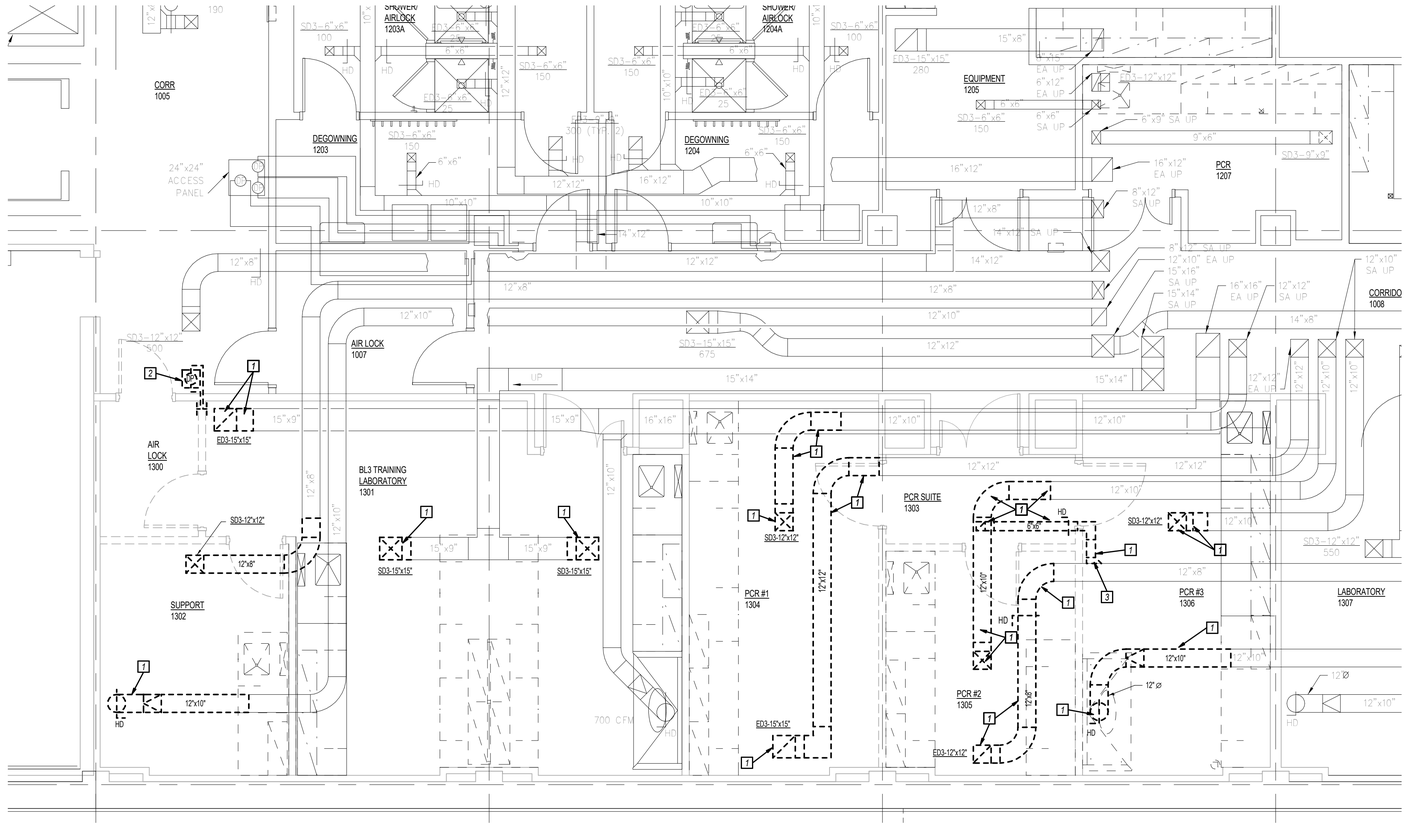
First & Third Floor
Reference Mechanical
Plans

SHEET NUMBER:

M101

SHEET 022 OF 046

7/2/21



1 Partial First Floor Mechanical Demolition Plan

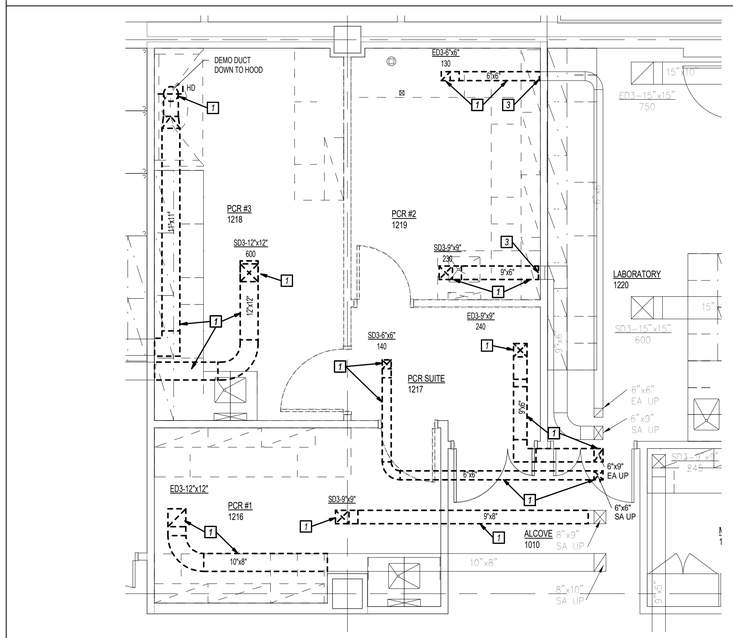
MD401 1/4" = 1'-0" NORTH

KEYED NOTES 0

1. DISCONNECT AND REMOVE EXISTING DUCTWORK AND ASSOCIATED GRILLES AND SUPPORTS NOT REQUIRED TO REMAIN. CAP & SEAL DUCTWORK AIRTIGHT WHERE NOT RECONNECTED.
2. DISCONNECT AND REMOVE EXISTING DP TRANSMITTER AND ASSOCIATED PRESSURE GAUGES, INDICATOR LIGHTS, ALARMS, TUBING AND WIRING.
3. CAP DUCTWORK.

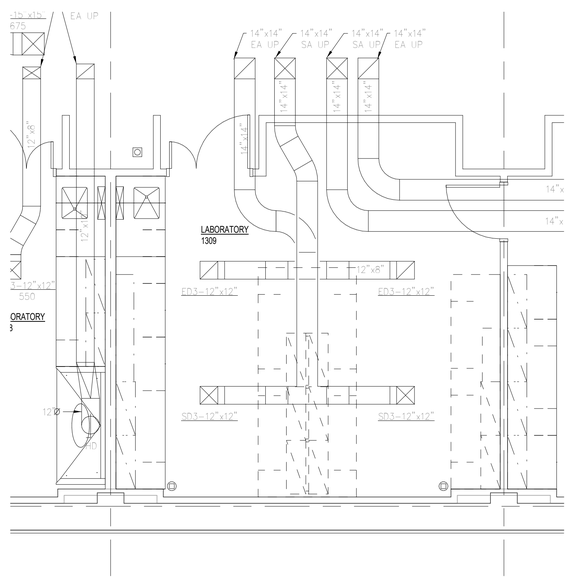
GENERAL NOTES

1. THIS IS AN OCCUPIED BUILDING & SERVICES SHALL REMAIN IN OPERATION EXCEPT FOR SHORT PERIODS OF TIME AS APPROVED BY THE OWNER. NOTIFICATION OF PLANNED SHUTDOWN SHALL BE SUBMITTED AND APPROVED BY THE OWNER A MIN. OF 2 WEEKS PRIOR TO SHUTDOWN.
2. DEMOLITION PLANS SHOW GENERAL INTENT OF DEMOLITION WORK, NOT ALL DEMO WORK MAY BE SHOWN. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL ITEMS NOT REQUIRED TO REMAIN.



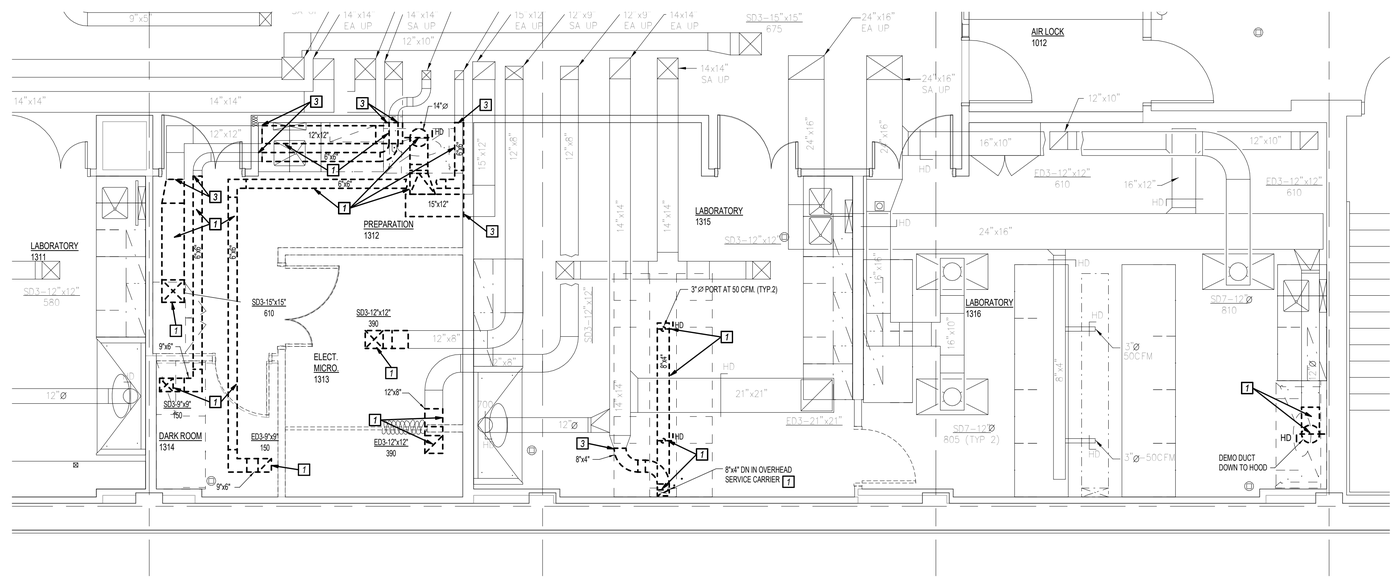
2 Partial First Floor Mechanical Demolition Plan

MD401 1/4" = 1'-0" NORTH



3 Partial First Floor Mechanical Demolition Plan

MD401 1/4" = 1'-0" NORTH



4 Partial First Floor Mechanical Demolition Plan

MD401 1/4" = 1'-0" NORTH

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GOVERNOR

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CAD DWG FILE: MD401
DRAWN BY: BWC
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:

Enlarged First Floor Mechanical Demolition Plans

SHEET NUMBER:

MD401

SHEET 023 OF 046

7/2/21

GENERAL NOTES

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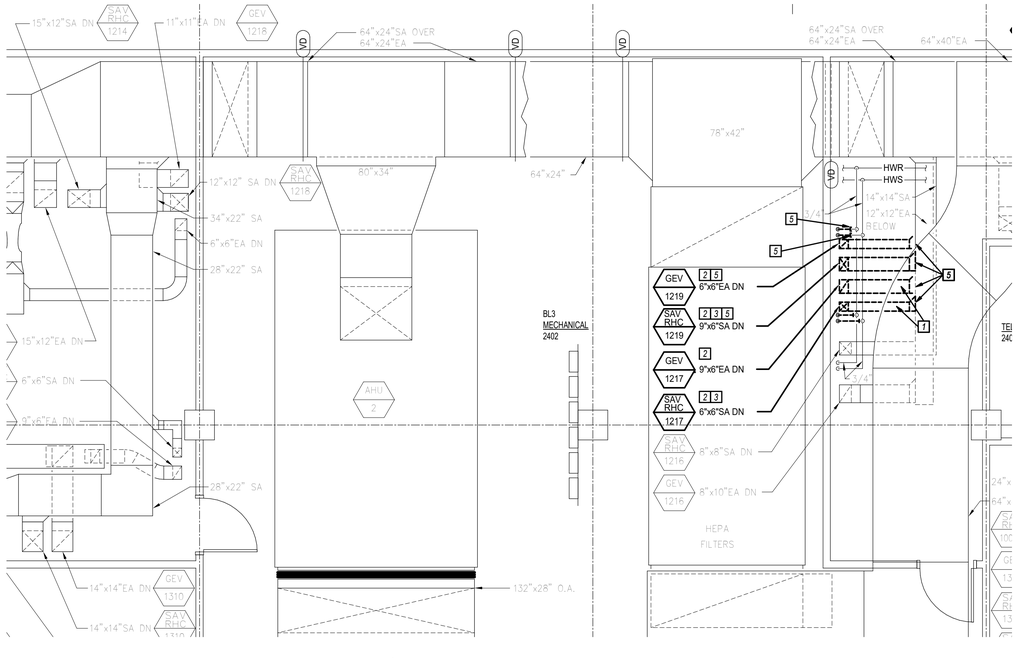
2. *DEMO ALL WORK NOT REQUIRED TO REMAIN WHETHER SHOWN DEMOED OR NOT.*

KEYED NOTES 0

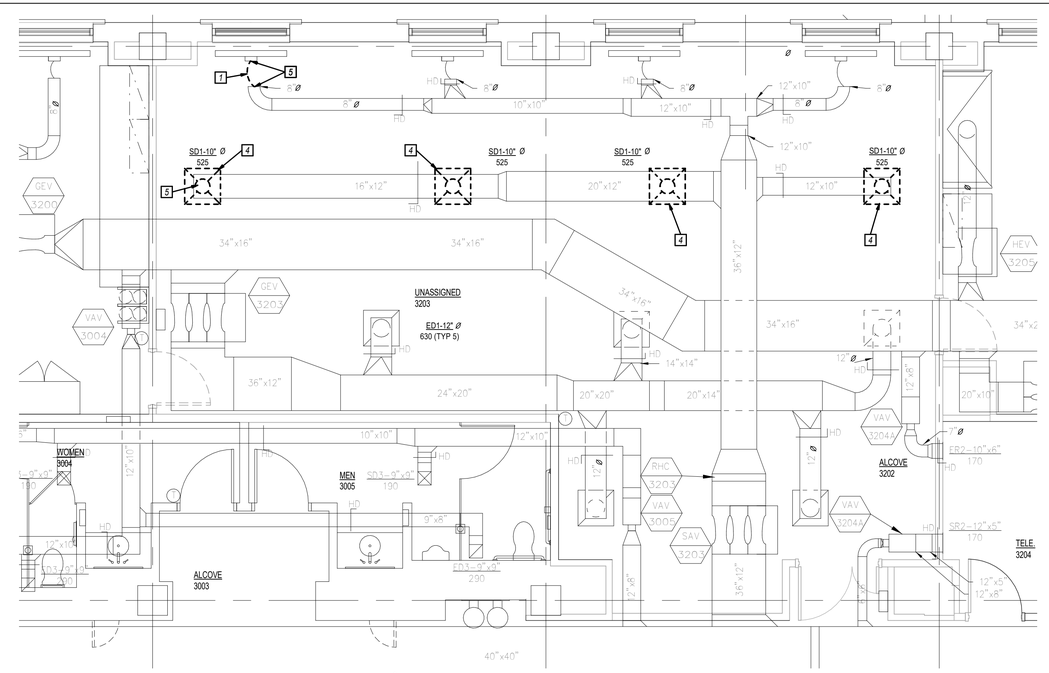
1. *DISCONNECT & REMOVE EXISTING DUCTWORK & SUPPORTS NOT REQ'D TO REMAIN.*
2. *DISCONNECT & REMOVE EXISTING AIR VALVE & ASSOCIATED DUCTWORK & CONTROLS NOT REQ'D TO REMAIN. TURN AIR VALVE & CONTROLS OVER TO OWNER.*
3. *DISCONNECT & REMOVE EXISTING REHEAT COIL & ASSOCIATED PIPING & CONTROLS NOT REQ'D TO REMAIN. TURN COIL & CONTROLS OVER TO OWNER.*
4. *DISCONNECT & REMOVE EXISTING DIFFUSER.*
5. *CAP EXISTING PIPING ON DUCTWORK.*



2 Partial Second Floor Mechanical Demolition Plan

MD403 1/4" = 1'-0"

NORTH

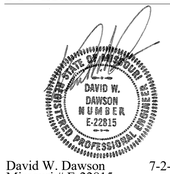


1 Partial Third Floor Mechanical Demolition Plan

MD403 1/4" = 1'-0"

NORTH

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR



David W. Dawson 7-2-21
Missouri # E-22815

GastingerWalker

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Project Number: 2020-401

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: MD403
DRAWN BY: MWM
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:

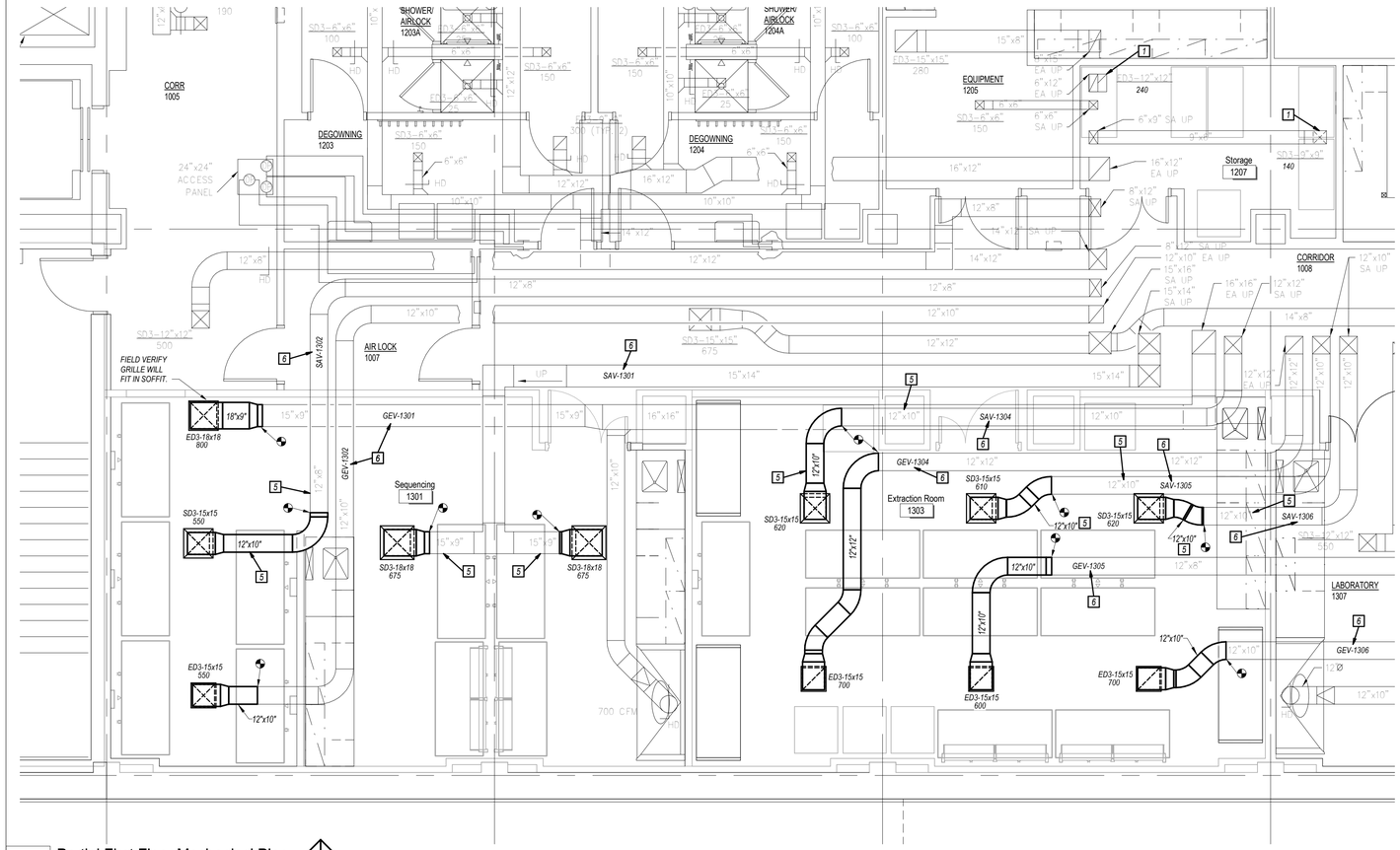
Enlarged Second and Third Floor Mechanical Demolition Plans

SHEET NUMBER:

MD403

SHEET 024 OF 046

7/2/21



1 Partial First Floor Mechanical Plan

M401 1/4" = 1'-0"

NORTH

GENERAL NOTES

1 THIS IS AN OCCUPIED BUILDING & SERVICES SHALL REMAIN IN OPERATION EXCEPT FOR SHORT PERIODS OF TIME AS APPROVED BY THE OWNER. NOTIFICATION OF PLANNED SHUTDOWN SHALL BE SUBMITTED AND APPROVED BY THE OWNER A MIN. OF 2 WEEKS PRIOR TO SHUTDOWN.

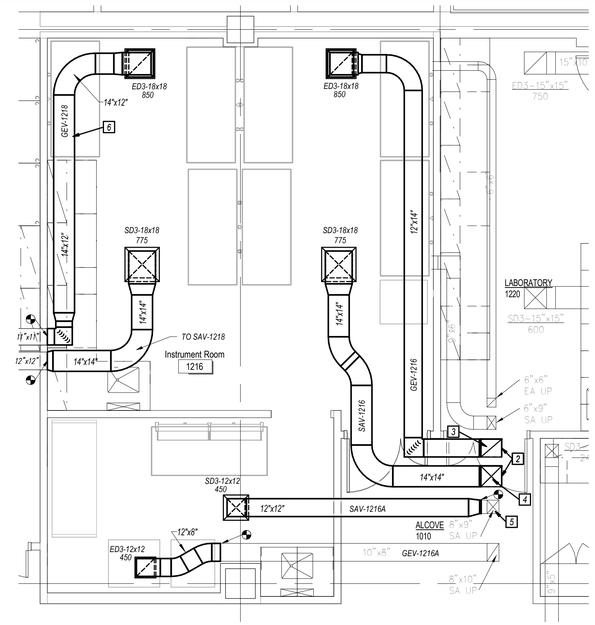
2 FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH OTHER NEW WORK BEFORE INSTALLATION.

3 DUCTWORK IS SHEET METAL SIZE UNLESS NOTED OTHERWISE.

4 SEAL ALL CEILING GRILLES AND CEILING AND WALL PENETRATIONS AIRTIGHT WITH SILICONE CAULK.

KEYED NOTES 0

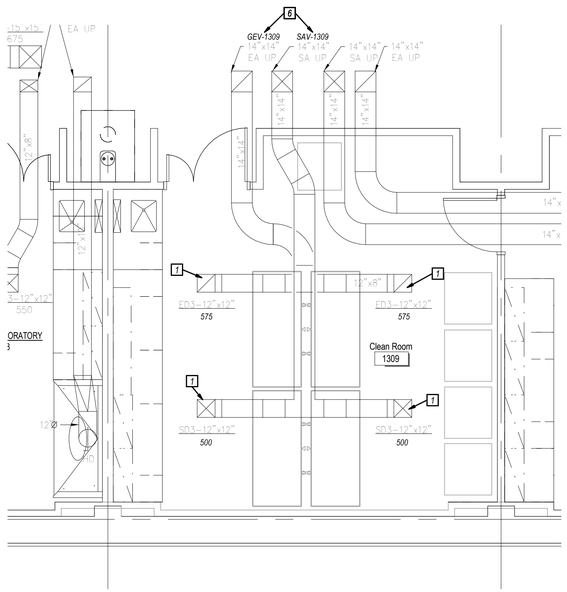
1 REBALANCE EXIST'G GRILLE OR DIFFUSER TO NEW AIRFLOW NOTED. REBALANCE ASSOCIATED SUPPLY AND/OR EXHAUST VALVES.
2 CUT NEW OPENINGS IN EXISTING SLAB.
3 12"x14" EA UP.
4 14"x14" SA UP.
5 DUCT DIMENSION SHOWN IS INTERIOR DIMENSION. FIELD VERIFY EXISTING DUCT SIZE CONNECTING TO.
6 ASSOCIATED SUPPLY AIR OR EXHAUST AIR VALVE. VALVES ARE LOCATED ON SECOND FLOOR ABOVE.
7 RENAME SAV-1313 AND GEV-1313 TO 1312.
8 DISABLE EXISTING AIR VALVES SAV-1312 AND GEV-1312 ABOVE.
9 DISABLE EXISTING AIR VALVES SAV-1314 AND GEV-1314 ABOVE.



2 Partial First Floor Mechanical Plan

M401 1/4" = 1'-0"

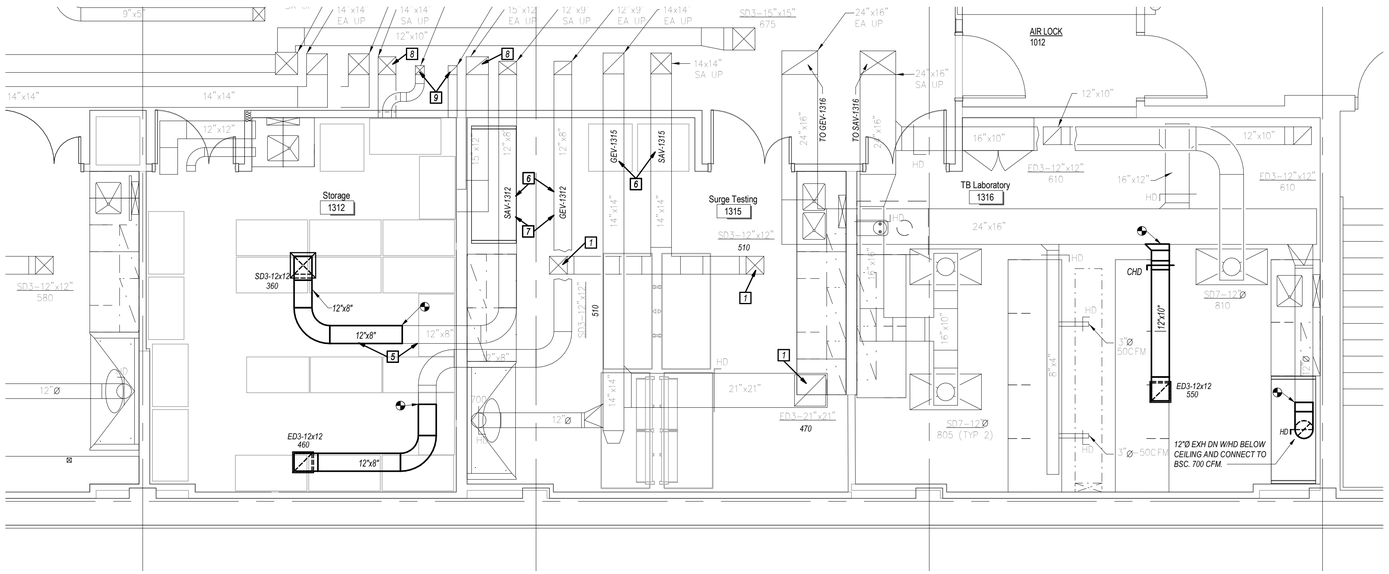
NORTH



3 Partial First Floor Mechanical Plan

M401 1/4" = 1'-0"

NORTH



4 Partial First Floor Mechanical Plan

M401 1/4" = 1'-0"

NORTH

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
DAVID W. DAWSON
NUMBER E-22815
PROFESSIONAL ENGINEER

David W. Dawson 7-2-21
Missouri # E-22815

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
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Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: M401
DRAWN BY: BWC
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:

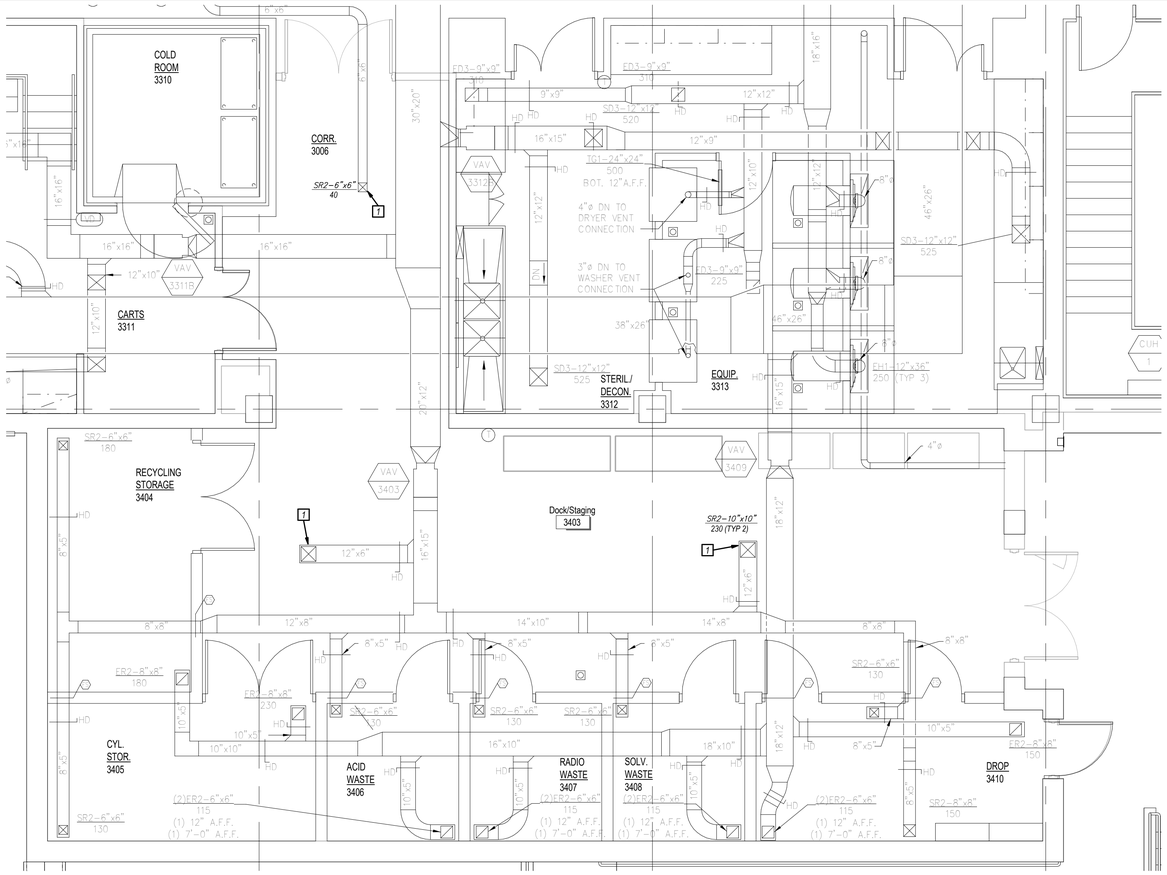
Enlarged First Floor Mechanical Plans

SHEET NUMBER:

M401

SHEET 025 OF 046

7/2/21



3 Partial Third Floor Mechanical Plan

M403 1/4" = 1'-0"

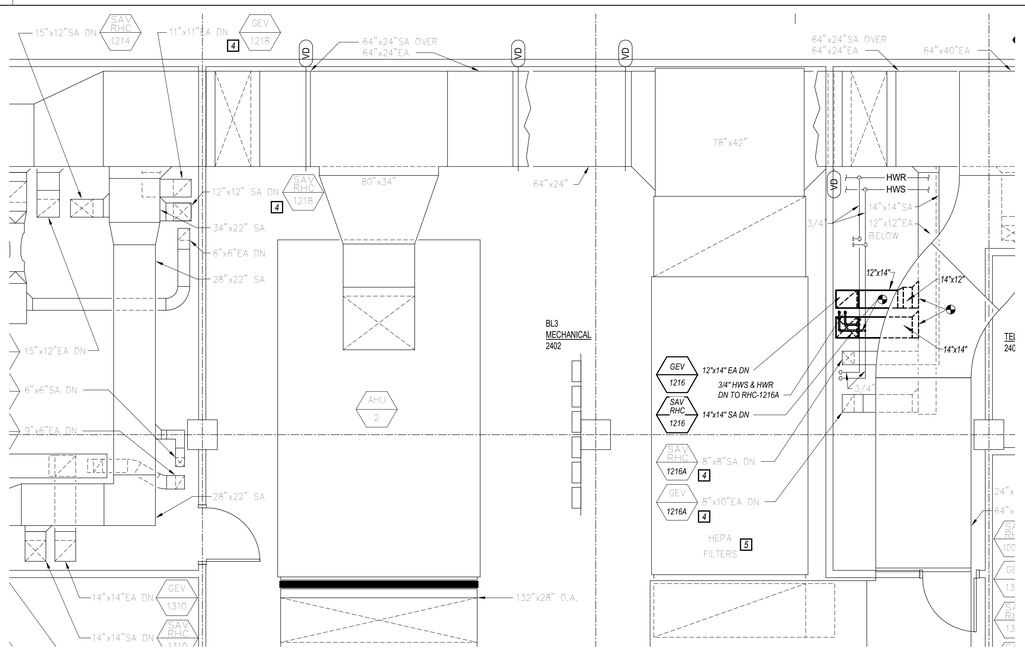
NORTH

GENERAL NOTES

1. THIS IS AN OCCUPIED BUILDING & SERVICES SHALL REMAIN IN OPERATION EXCEPT FOR SHORT PERIODS OF TIME AS APPROVED BY THE OWNER. NOTIFICATION OF PLANNED SHUTDOWN SHALL BE SUBMITTED AND APPROVED BY THE OWNER A MIN. OF 2 WEEKS PRIOR TO SHUTDOWN.
2. FIELD VERIFY EXISTING CONDITIONS AND COORDINATE WITH OTHER NEW WORK BEFORE INSTALLATION.
3. DUCTWORK IS SHEET METAL SIZE UNLESS NOTED OTHERWISE.
4. SEAL ALL CEILING GRILLES AND CEILING AND WALL PENETRATIONS AIRTIGHT WITH SILICONE CAULK.

KEYED NOTES 0

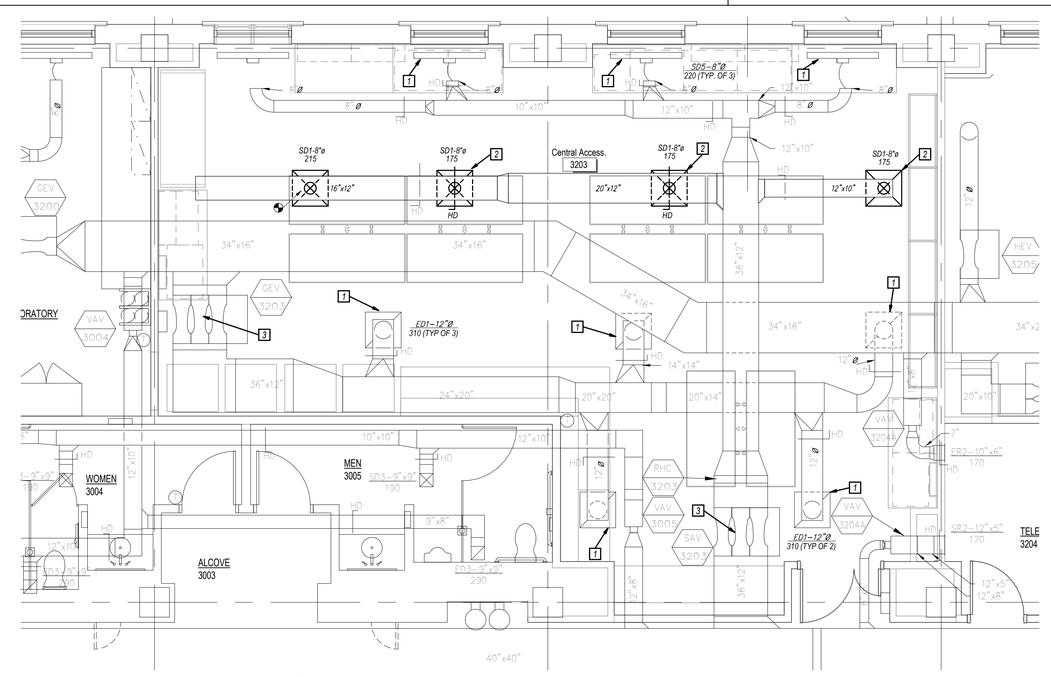
1. BALANCE EXISTING DIFFUSER OR GRILLE TO NEW AIRFLOW NOTED.
2. REPLACE EXISTING DIFFUSER & TRANSITION EXISTING TAKE-OFF TO NEW DIFFUSER SIZE.
3. DISABLE & SHUT-OFF EXISTING CENTER AIR VALVE.
4. REBALANCE EXISTING AIR VALVES TO CONNECTED AIRFLOWS NOTED IN EXTRACT LOADING 1216A AND INSTRUMENT ROOM 1216.
5. PREFILTERS IN HEPA FILTER HOUSING SHALL BE REPLACED AT END OF PROJECT. PROVIDE PRESSURE DROP READING ACROSS HEPA FILTERS BEFORE PROJECT COMMENCES. PROVIDE A SECOND PRESSURE DROP READING ACROSS THE HEPA FILTERS AT SUBSTANTIAL COMPLETION. IF HEPA FILTER PRESSURE DROP INCREASES +0.30" OR MORE BETWEEN THE READINGS, THE HEPA FILTERS SHALL ALSO BE REPLACED. THE FILTERS CONSIST OF 15-24"x24" MERV 8 PREFILTERS AND 15-24"x24" HEPA FILTERS.



2 Partial Second Floor Mechanical Plan

M403 1/4" = 1'-0"

NORTH



1 Partial Third Floor Mechanical Plan

M403 1/4" = 1'-0"

NORTH

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
DAVID W. DAWSON
NUMBER
E-22815
PROFESSIONAL ENGINEER

David W. Dawson 7-2-21
Missouri # E-22815

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Laboratory Renovation

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Jefferson City, MO

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SITE # 1017
FACILITY # 3101017078

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REVISION:
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REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: M403
DRAWN BY: MWM
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:

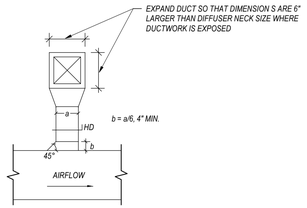
Enlarged Second and Third Floor Mechanical Plans

SHEET NUMBER:

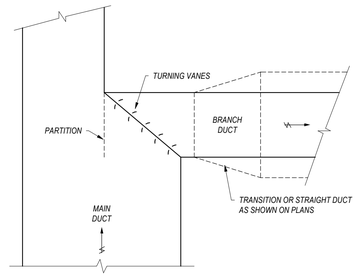
M403

SHEET 026 OF 046

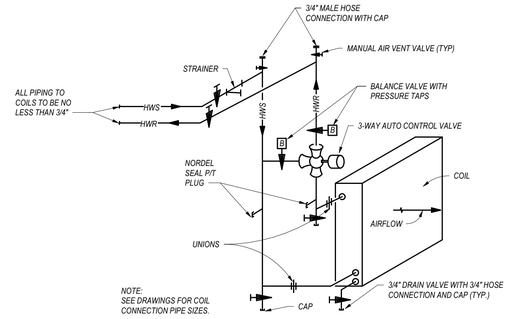
7/2/21



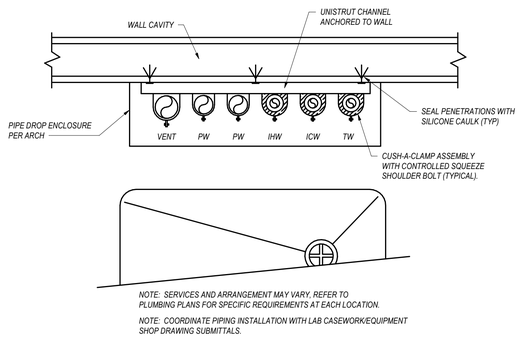
3	Branch Take Off And Rectangular Neck Diffuser Connection Detail
PM500	N.T.S.



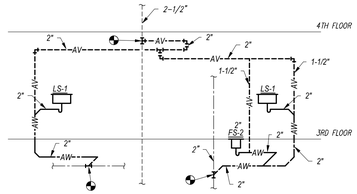
2	Branch Duct Connection From Main Supply Duct Detail
PM500	N.T.S.



1	Sketch Of Connections To Reheat Coils
PM500	N.T.S.



5	Pipe Drop Enclosure Detail
PM500	N.T.S.



4	Central Accessioning Plumbing Riser Diagram
PM500	N.T.S.

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

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Missouri # E-22815

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DESIGN AND CONSTRUCTION

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State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

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SITE # 1017
FACILITY # 3101017078

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REVISION:
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ISSUE DATE: 2 July 2021

CAD DWG FILE: M500
DRAWN BY: MWM
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:

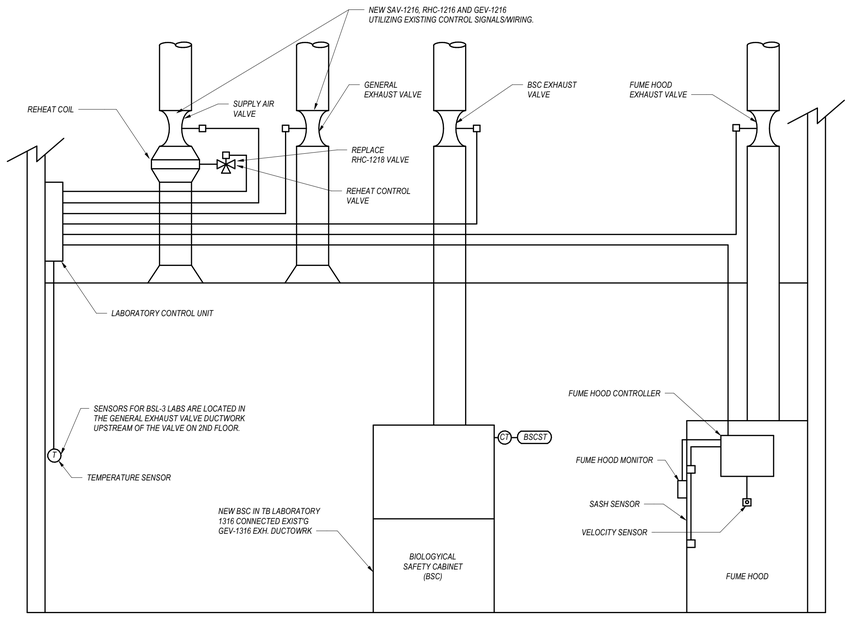
Plumbing and
Mechanical Details

SHEET NUMBER:

PM500

SHEET 027 OF 046

7/2/21



LABORATORY CONTROL SYSTEM

NO SCALE

1. ALL CONTROLS AND EQUIPMENT ARE EXISTING EXCEPT WHERE NOTED OTHERWISE.
2. FUME HOOD CONTROLLER TO BE MOUNTED ON FUME HOOD.
3. LABORATORY CONTROL UNIT TO BE MOUNTED BEHIND SMALL EQUIPMENT DOOR IN LAB ALCOVE FOR GENERAL LABORATORY AND IN SECOND FLOOR BSL-3 MECHANICAL ROOM FROM BSL-3 LABORATORY.
4. ALL PENETRATIONS OF THE BSL-3 CEILING SHALL BE SEALED WITH SILICONE CAULK - SEE ELECTRICAL DRAWINGS.
5. ALL CONTROL WIRING TO BE IN CONDUIT.
6. THE BSC EXHAUST VALVE SHALL MAINTAIN BSC EXHAUST FLOW. THE GENERAL LAB (NON BSL-3) BSC EXHAUST FLOW SHALL BE RESET TO MINIMUM WHEN THE BSC IS OFF BSCST.
7. WHERE MORE THAN ONE SUPPLY AIR VALVE AND/OR GENERAL EXHAUST VALVE SERVE THE SAME SPACE THE SAME OUTPUT SIGNALS SHALL BE SENT TO THE ASSOCIATED SUPPLY AIR VALVES, REHEAT COIL VALVES AND GENERAL EXHAUST VALVES SERVING THAT SPACE, WHERE APPLICABLE. TEMPERATURE SENSORS SHALL BE AVERAGED TO CONTROL SPACE TEMPERATURE.

LABORATORY CONTROL SYSTEM SEQUENCE OF OPERATION

ALL POINTS SHALL BE DISPLAYED GRAPHICALLY AT THE OPERATOR WORK STATION IN THE SECOND FLOOR BOILER OPERATOR ROOM. ALL ALARMS SHALL BE SENT INDIVIDUALLY TO THE OPERATOR WORK STATION.

THE FUME HOOD EXHAUST VALVE SHALL MODULATE TO MAINTAIN THE FUME HOOD FACE VELOCITY. FACE VELOCITY SHALL BE AT 100 FPM BASED ON SASH POSITION OR THE VELOCITY SENSOR.

THE TEMPERATURE SENSOR SHALL MODULATE THE SUPPLY AIR VALVE AIRFLOW TO CONTROL ROOM TEMPERATURE.

THE SUPPLY AIR AND GENERAL EXHAUST AIR VALVE SHALL MODULATE TO MAINTAIN THE AIR FLOW OFFSET FOR THE LABORATORY AS SHOWN ON THE DRAWINGS.

IF THE ROOM TEMPERATURE DROPS BELOW THE ROOM TEMPERATURE SETPOINT, THE REHEAT CONTROL VALVE SHALL MODULATE TO MAINTAIN ROOM TEMPERATURE OF 72°(ADJ.)

THE REHEAT CONTROL VALVE SHALL BE SUPPLIED BY THE CONTROLS SYSTEM SUPPLIER.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	DESCRIPTION	ACCESSORIES	MANF'R AND MODEL NO.	WASTE	VENT	COLD	HOT	PW	TW
LS-1	LABORATORY SINK	LAB SINK FURNISHED AND INSTALLED BY LAB CASEWORK SUPPLIER.	LABORATORY MIXING FAUCET W/FOOT PEDAL CONTROLS & PURE WATER FAUCET AND ASSOCIATED TAILPIECES FURNISHED BY LAB CASEWORK SUPPLIER AND INSTALLED BY PLUMBING CONTRACTOR. ACID RESISTANT POLYPROPYLENE SINK TRAPS AND FAUCET SUPPLIES W/LOOSE KEY STOPS FURNISHED AND INSTALLED BY PLUMBING CONTRATOR.	-----	2"	1-1/2"	1/2"	1/2"	1/2"	--
DH-1	DRENCH HOSE	DRENCH HOSE SUPPLIED BY LAB CASEWORK SUPPLIER & INSTALLED BY PLUMBING CONTRACTOR.	DEARBORN NO. 2712 KCW HOT AND COLD WATER COMPRESSION INLET SUPPLIES WITH STOPS.	-----	-----	-----	-----	-----	-----	3/4"
SS-1	COMBINATION SAFETY SHOWER/EYE WASH	PROVIDED BY LAB CASEWORK SUPPLIER & INSTALLED BY PLUMBING CONTRACTOR.	HARD PIPED W/ ISOLATION VALVE LOCKED OPEN.	-----	-----	-----	-----	-----	-----	1-1/4"
FS-2	FLOOR SINK	EPOXY COATED, CAST IRON 14"x14", 8" DEEP ACID RESISTANT FLOOR SINK W/ 12-1/2"x 12-1/2" NICKEL BRONZE SECURED GRATE & RIM & ALUMINUM DOME BOTTOM STRAINER.	PROVIDE W/PROSET "TRAP GUARD" AND DEEP SEAL TRAP.	JAY R SMITH 3150	SEE PLANS	SEE PLANS	-----	-----	-----	-----

AIR VALVE SCHEDULE

MARK	AREA SERVED	LOCATION	MANUFACTURER	MODEL	INLET SIZE (IN.)	MIN CFM	MAX CFM	AIR P.D. (IN WG.)	ASSOCIATED REHEAT COIL	NOTES
SAV 1216	NE OVERFLOW COVID TESTING 1216	BL3 MECHANICAL 2404	TRIATEK	VVN10	10	775	775	0.6	RHC 1216	1,2
GEV 1216	NE OVERFLOW COVID TESTING 1216	BL3 MECHANICAL 2404	TRIATEK	VVN10	10	850	850	0.6	---	1

NOTES:
1 SAV 1216 AND GEV 1216 REPLACE EXISTING SAV 1217 AND GEV 1217. EXISTING SAC 1216 AND GEV 1216 SHALL BE RENAMED SAV 1216A AND GEV 1216A.
2 REFER TO HEATING COIL SCHEDULE FOR REHEAT COILS.

HEATING COIL SCHEDULE

PLAN MARK	AREA SERVED	LOCATION	HEATING COIL DATA						NOTES
			SIZE	CFM	EAT (F°)	LAT (F°)	MBH	GPM	
RHC 1216	EAST INSTRUMENT ROOM 1216	BL3 MECHANICAL 2404	14"x14"	775	55	95	33.5	2.2	1
RHC 1218	WEST INSTRUMENT ROOM 1216	BL3 MECHANICAL 2401	12"x12"	775	55	95	33.5	2.2	1,2

NOTES:
1 GPM BASED ON 180 EWT - 150 DEG. LWT
2 EXISTING COIL. REPLACE EXISTING CONTROL VALVE TO PROVIDE REQUIRED FLOW.

DIFFUSER AND GRILLE SCHEDULE

MARK	DESCRITION
SD1	TITUS "TMS" SQUARE TRIPLE CONE STEEL ROUND NECK SUPPLY AIR DIFFUSER WITH REMOVABLE CORE. DIFFUSER SHALL HAVE A 24"x24" NOMINAL FACE DIMENSION FOR INSTALLATION IN LAY-IN TYPE CEILING. 4-WAY BLOW UNLESS SHOWN OTHERWISE ON DRAWING. WHITE FINISH.
SD3	TITUS TYPE "TDC" STEEL RECTANGULAR CEILING AIR DIFFUSERS WITH BEVELED DROP FRAME, REMOVABLE CORE. 4-WAY BLOW, UNLESS SHWON OTHERWISE ON DRAWINGS. WHITE FINISH.
ED3	EXHAUST GRILLE SAME AS TYPE "SD3" DIFFUSER.

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
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DATE:
ISSUE DATE: 2 July 2021

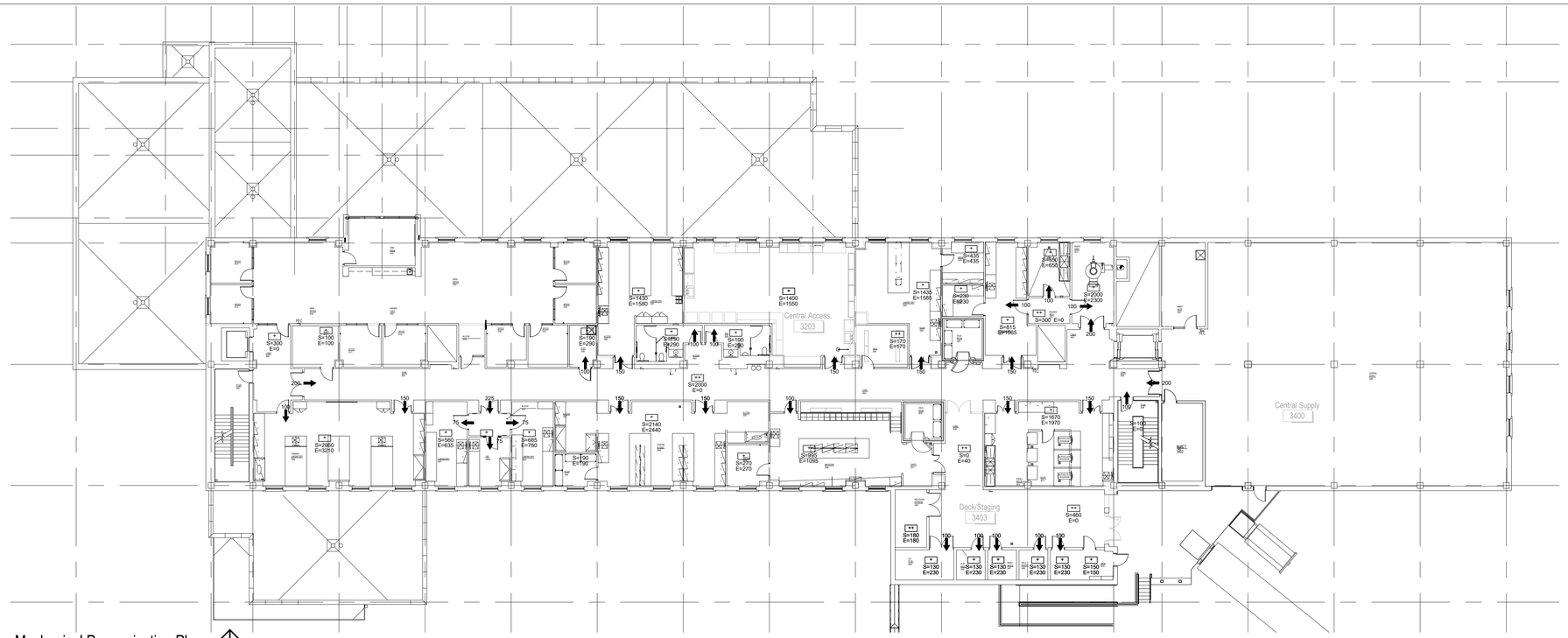
CAD DWG FILE: PME600
DRAWN BY: MWM
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:
Plumbing & Mechanical Schedules

SHEET NUMBER:
PME600

SHEET 028 OF 046

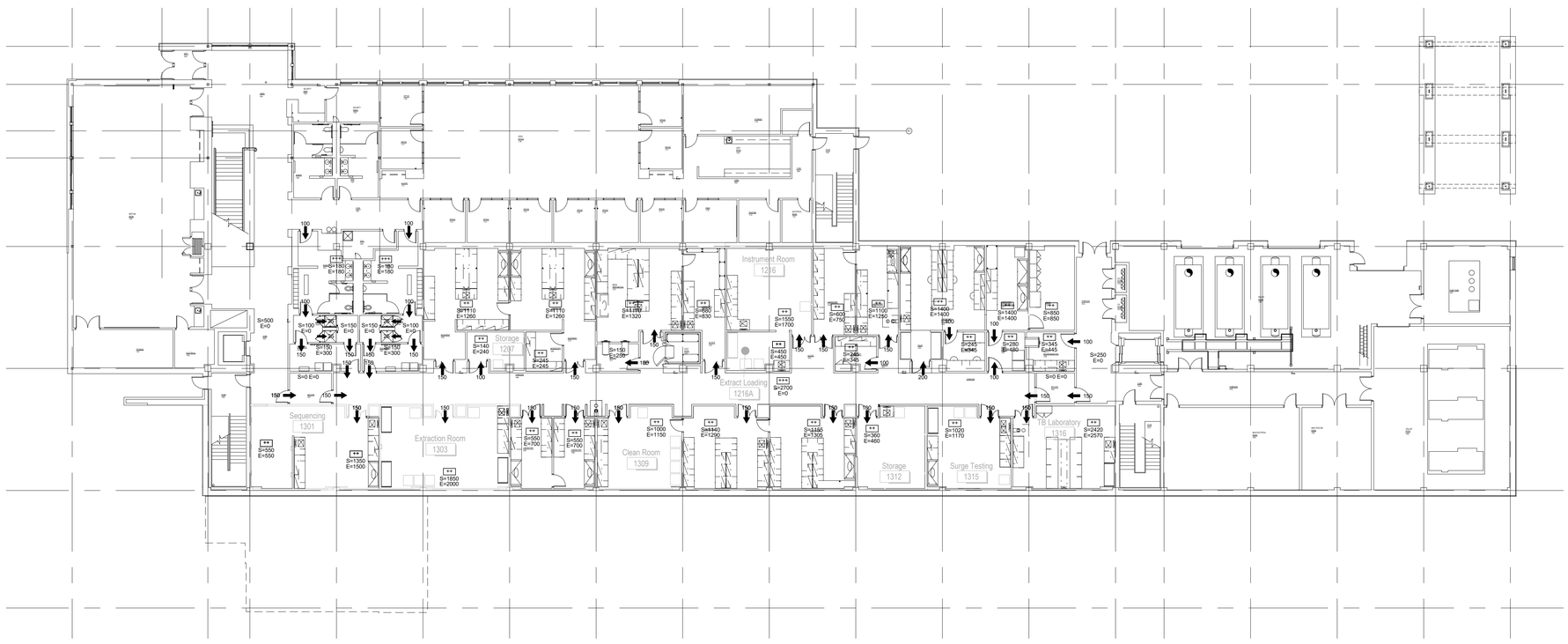
7/2/21



2 Third Floor Mechanical Pressurization Plan

M601 1/16" = 1'-0"

NORTH



1 First Floor Mechanical Pressurization Plan

M601 1/16" = 1'-0"

NORTH

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
DAVID W. DAWSON
NUMBER E-22815
REGISTERED PROFESSIONAL ENGINEER

David W. Dawson 7-2-21
Missouri # E-22815

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REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: M601
DRAWN BY: MWM
CHECKED BY: SGB
DESIGNED BY: IMEG

SHEET TITLE:

First & Third Floor
Mechanical
Pressurization Plans

SHEET NUMBER:

M601

SHEET 029 OF 046

7/2/21

ELECTRICAL SYMBOLS LIST

(ALL MAY NOT APPLY)

POWER SYMBOLS

- HOMERUN TO SOURCE AS NOTED
- CONDUIT IN WALL OR CEILING CONSTRUCTION WITH ONE PHASE WIRE, ONE NEUTRAL WIRE AND ONE GROUND WIRE. CONDUIT IN FLOOR OR BELOW GRADE CONSTRUCTION WITH ONE PHASE WIRE, ONE NEUTRAL WIRE AND ONE GROUND WIRE
- CONDUIT WITH WIRING (TWO PHASE WIRES, NEUTRAL AND GROUND WIRE)
- CONDUIT WITH #10 WIRE THROUGHOUT ENTIRE CIRCUIT
- PARTIAL CIRCUIT, HOMERUN TO SOURCE AS NOTED
- LV — LOW VOLTAGE WIRING
- N — EXISTING CONDUIT WITH NEW WIRE
- PANELBOARD (DOUBLE LINE INDICATES FRONT OF PANELBOARD)
- DISCONNECTING SWITCH
- COMB. MOTOR STARTER AND DISC. SWITCH
- NF — NF DENOTES NON-FUSED
- VFD — VARIABLE FREQUENCY DRIVE
- VFD — VARIABLE FREQUENCY DRIVE WITH DISCONNECTING MEANS
- TCP — TEMPERATURE CONTROL PANEL
- MOTOR CONNECTION
- MECHANICAL VAV BOX
- MECHANICAL MIXING BOX
- TRANSFORMER
- SINGLE RECEPTACLE
- DUPLEX CONVENIENCE RECEPTACLE
- FOURPLEX CONVENIENCE RECEPTACLE
- 6-20R — HEAVY DUTY OUTLET - WITH NEMA CONFIGURATION
- 20A, 125V, RED DUPLEX CONVENIENCE RECEPTACLE ON EMERGENCY SYSTEM
- GFI — GROUND FAULT CIRCUIT INTERRUPTER
- IG — ISOLATED GROUND RECEPTACLE
- H — CONVENIENCE RECEPTACLE - MOUNTED HORIZONTALLY
- 48 — NUMBER INDICATES MOUNTING HEIGHT OF DEVICE (CENTER LINE ABOVE FLOOR) IF OTHER THAN SPECIFIED HEIGHT
- EWC — ELECTRIC WATER COOLER
- EWC — JUNCTION BOX FOR ELECTRIC WATER COOLER
- 1 — FLOOR OUTLET - DUPLEX RECEPTACLE
- 4 — FLOOR OUTLET - FOURPLEX RECEPTACLE
- CEILING DROP
- PT — FLOOR POKE THROUGH - DUPLEX RECEPTACLE
- J — JUNCTION BOX
- J — WALL MOUNTED JUNCTION BOX
- J OC — JUNCTION BOX MOUNTED OVER CEILING
- J — FLOOR JUNCTION BOX
- T — ELECTRIC THERMOSTAT - WALL MOUNTED
- PB — PUSHBUTTON - WALL MOUNTED
- PB P — PUSHBUTTON WITH PILOT LIGHT
- BELL OR BUZZER
- P — SINGLE CIRCUIT PLUGMOLD
- P_2 — TWO CIRCUIT PLUGMOLD
- SR — SURFACE RACEWAY
- BUSHING AT END OF CONDUIT
- CM — INDICATES DEVICE THAT SHALL BE MOUNTED ABOVE OR OTHER THAN SPECIFIED HEIGHT REFER TO ARCHITECTURAL DETAILS AND ELEVATIONS AND COORDINATE EXACT LOCATION OF DEVICE. WHERE DEVICES ARE NOT SHOWN IN ARCHITECTURAL DETAILS, CONTRACTOR SHALL CONFIRM EXACT MOUNTING LOCATION WITH ARCHITECT.
- EM — INDICATES LIGHT OR DEVICE CONNECTED TO EMERGENCY POWER OR FURNISHED WITH A BATTERY PACK CONNECTED TO A NON-SWITCHED HOT WIRE
- EX — EXISTING DEVICE, LIGHT, OR CONDUIT & WIRE TO REMAIN
- N — NEW DEVICE IN EXISTING OUTLET BOX
- NL — INDICATES NIGHT LIGHT FIXTURE CONNECTED TO A NON-SWITCHED HOT WIRE
- R — EXISTING DEVICE, LIGHT, OR CONDUIT & WIRE TO BE REMOVED
- RB — EXISTING DEVICE OR LIGHT TO BE REMOVED WITH BLANK COVER ON OUTLET BOX
- RL — EXISTING DEVICE OR LIGHT RELOCATED
- RN — EXISTING DEVICE OR LIGHT TO BE REMOVED AND OUTLET BOX REUSED FOR NEW DEVICE OR LIGHT
- RT — RAINTIGHT DEVICE - NEMA 3R
- TP — TAMPER-PROOF DEVICE
- WP — WEATHER-PROOF DEVICE
- VUH — VERTICAL UNIT HEATER. REFER TO DETAIL FOR ALL WIRING REQUIRED. REFER TO FLOOR PLANS FOR LOCATIONS.
- LK — DEVICE WITH LOCKABLE COVERPLATE
- USB — RECEPTACLE FURNISHED WITH (1) TYPE-A AND (1) TYPE-C USB OUTLET.

LIGHTING SYMBOLS

- CEILING MOUNTED LIGHT FIXTURE
- CEILING MOUNTED WALL WASH LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- CEILING MOUNTED FLUORESCENT LIGHT FIXTURE
- WALL MOUNTED FLUORESCENT LIGHT FIXTURE
- X, Y — TRACK LIGHT FIXTURE
  X - INDICATES TYPE OF AIMABLE LIGHT FIXTURE
  Y - INDICATES TYPE OF TRACK
- POLE MOUNTED LIGHT FIXTURE
- CEILING MOUNTED EXIT LIGHT
- WALL MOUNTED EXIT LIGHT
- CEILING MOUNTED EXIT LIGHT W/DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT W/DIRECTIONAL ARROW
- SHADING DENOTES FACE DIRECTION OF EXIT LIGHT
- BATTERY OPERATED EMERGENCY LIGHT - WALL MOUNTED
- BATTERY OPERATED EMERGENCY LIGHT - CEILING MOUNTED
- SINGLE POLE SWITCH
- S_2 — DOUBLE POLE SWITCH
- S_3 — THREE WAY SWITCH
- S_4 — FOUR WAY SWITCH
- S_K — KEYED SWITCH
- S_M — MOMENTARY SWITCH
- S_P — SWITCH WITH PILOT LIGHT
- S_T — THERMAL MOTOR PROTECTION SWITCH
- S_{LV} — LOW VOLTAGE SWITCH
- D_8 — DIMMER - NUMBER (X 100) EQUALS WATTAGE
- D_F — FLUORESCENT DIMMER
- D_{LV} — LOW-VOLTAGE DIMMER
- D_{3W} — 3-WAY DIMMER
- X, $S_?$ — MULTIPLE SWITCHES
  X - INDICATES HOW MANY
  ? - INDICATES WHAT TYPE OF SWITCH
- X, $D_?$ — MULTIPLE DIMMERS
  X - INDICATES HOW MANY
  ? - INDICATES WHAT TYPE OF DIMMER
- S_{MS} — WATTSTOPPER DIGITAL TIME SWITCH: TS-400
- CS_{XX} — WATTSTOPPER DIFITAL LIGHTING MANAGEMENT CONTROL STATION KEYPAD WITH PROGRAMMABLE FUNCTION BUTTONS. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS.
  XX INDICATES TYPE:
  S1: ONE BUTTON KEYPAD
  S2: TWO BUTTON KEYPAD
  S3: THREE BUTTON KEYPAD
  S4: FOUR BUTTON KEYPAD
  S8: EIGHT BUTTON KEYPAD
  D1: ONE ROCKER BUTTON KEYPAD
- S_{MS} — WATTSTOPPER DUAL TECHNOLOGY LINE VOLTAGE WALL OCCUPANCY SENSOR: DSW-301
- OS — WATTSTOPPER DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR WITH POWER PACK: DT-300 AND BZ-150
- S_{MS-0} — WATTSTOPPER DUAL TECHNOLOGY 0-10 VOLT DIMMING WALL SWITCH OCCUPANCY SENSOR: DW-311
- PC — WATTSTOPPER DLM SYSTEM PHOTO CELL: LMLS-500
- MS — WATTSTOPPER DLM SYSTEM DUAL TECHNOLOGY CEILING MOTION SENSOR: LMDC-100
- MS_{EM} — WATTSTOPPER EMERGENCY LIGHTING CONTROL UNIT. UPON LOSS OF NORMAL POWER, EMERGENCY LIGHTING SHALL BE BROUGHT TO FULL BRIGHTNESS REGARDLESS OF SWITCH POSITION. PROVIDE ALL LOW VOLTAGE CABLINGS AS REQUIRED: ELCU-200
- MS_{BMS} — WATTSTOPPER DIGITAL LIGHTING MANAGEMENT INPUT/OUTPUT INTERFACE FOR BMS CONTROL OF LIGHTING. PROVIDE ALL LOW VOLTAGE CABLING AS REQUIRED: LMIN-104
- RC_X — WATTSTOPPER DIGITAL LIGHTING MANAGEMENT ROOM CONTROLLER. REFER TO DETAILS FOR SYSTEM INTERCONNECTION REQUIREMENTS.
  X INDICATES TYPE.
  A: ONE RELAY SWITCHING CONTROLLER: LMRC-101
  B: TWO RELAY SWITCHING CONTROLLER: LMRC-102
  C: ONE RELAY SWITCHING OR 0-10V DIMMING CONTROLLER: LMRC-211
  D: TWO RELAY SWITCHING OR 0-10V DIMMING CONTROLLER: LMRC-212
  E: THREE RELAY SWITCHING OR 0-10V DIMMING CONTROLLER: LMRC-213

COMMUNICATION SYMBOLS

- TELEPHONE OUTLET WITH 3/4" CONDUIT STUBBED TO NEAREST CABLE TRAY UNLESS NOTED OTHERWISE. INSTALL WITH ONE (1) CAT 6 CABLE (UON). REFER TO SPECS.
- DATA OUTLET WITH 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE. INSTALL WITH ONE (1) CAT 6 CABLE (UON). REFER TO SPECS.
- TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE. INSTALL WITH ONE (1) CAT 6 CABLE (UON). REFER TO SPECS.
- 48 — WALL MOUNTED TELEPHONE OUTLET - NUMBER INDICATES HEIGHT ABOVE FINISHED FLOOR
- FLOOR OUTLET - TELEPHONE
- FLOOR OUTLET - DATA
- FLOOR OUTLET - TELEPHONE/DATA
- PT — FLOOR POKE THROUGH - TELEPHONE
- PT — FLOOR POKE THROUGH - DATA
- PT — FLOOR POKE THROUGH - TELEPHONE/DATA
- S — CEILING SPEAKER
- S — WALL MOUNTED SPEAKER
- S — HORN TYPE SPEAKER
- V — VOLUME CONTROL
- TV — TELEVISION OUTLET WITH 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE
- INTERCOM STAFF STATION
- IC M — INTERCOM MASTER STATION
- CLOCK OUTLET
- DOUBLE DIAL CLOCK - CEILING MOUNTED
- DOUBLE DIAL CLOCK - WALL MOUNTED
- J MIC — MICROPHONE OUTLET WITH 3/4" CONDUIT INTO ACCESSIBLE CEILING SPACE

SECURITY SYMBOLS

- TV — FIXED CCTV CAMERA
- TV MD — CCTV CAMERA WITH MOTORIZED DOME
- TV PT/Z — CCTV CAMERA WITH PAN/TILT/ZOOM
- MD — SECURITY MOTION DETECTOR
- PR — PROXIMITY READER (CARD READER)
- IA — INTRUSION ALARM
- ES — ELECTRIC DOOR STRIKE

FIRE ALARM SYMBOLS

- B — MANUAL PULL STATION
- WALL MOUNTED FIRE ALARM SPEAKER
- B — COMBINATION PULLSTATION/HORN
- S — SMOKE DETECTOR
- S — SMOKE DETECTOR - DUCT MOUNTED
- S E — SMOKE DETECTOR - ELEVATOR LOBBY
- S AC — SMOKE DETECTOR WITH AUXILIARY CONTACTS FOR USE IN PATIENT ROOMS AND TREATMENT ROOMS, INCLUDING NURSE CALL RELAY LOCATED AT NURSE CALL LIGHT
- H — HEAT DETECTOR
- DH — DOOR HOLDER - WALL MOUNTED
- DH F — DOOR HOLDER - FLOOR MOUNTED
- DC — DOOR CLOSER
- FR — FAN SHUT-DOWN RELAY
- FS — SPRINKLER FLOW SWITCH
- TS — SPRINKLER VALVE TAMPER SWITCH
- VA 75 — VISUAL/AUDIBLE ALARM - NUMBER INDICATES CANDELA OUTPUT, LACK OF NUMBER INDICATES 15/75 CANDELA OUTPUT
- VA 75 — VISUAL ALARM - NUMBER INDICATES CANDELA OUTPUT, LACK OF NUMBER INDICATES 15/75 CANDELA OUTPUT
- R — AREA OF RESCUE STATION
- R M — AREA OF RESCUE - MASTER STATION
- PIV — POST INDICATOR VALVE
- FACP — FIRE ALARM CONTROL PANEL (DOUBLE LINE INDICATES FRONT OF PANEL)
- FAA — FIRE ALARM ANNUNCIATOR (DOUBLE LINE INDICATES FRONT OF PANEL)
- AI — ADDRESSABLE INTERFACE MODULE
- AI R — ADDRESSABLE INTERFACE MODULE WITH RELAY

TEMPERATURE CONTROLS SYMBOLS

- IR — INTER RELAY
- EP — ELECTRIC TO PNEUMATIC SWITCH
- PE — PNEUMATIC TO ELECTRIC SWITCH
- DP — DIFFERENTIAL PRESSURE SWITCH
- T1 — THERMOSTAT - SEE TEMP. CONT. DRAWING
- T2 — THERMOSTAT - SEE TEMP. CONT. DRAWING

ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPERES(AMPS)	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR		
AFG	ABOVE FINISHED GRADE	MCB	MAIN CIRCUIT BREAKER
AG	ABOVE GRADE	MECH	MECHANICAL
AIC	AMPS INTERRUPTING CURRENT	MERC (MV)	MERCURY VAPOR
APPROX.	APPROXIMATE	MH	METAL HALIDE
ARCH	ARCHITECTURAL	MISC	MISCELLANEOUS
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY
		MTD	MOUNTED
BLDG	BUILDING	MTG	MOUNTING
		MV	MEDIUM VOLTAGE
C	CONDUIT		
CB	CIRCUIT BREAKER	N	NEUTRAL
CKT	CIRCUIT	NC	NORMALLY CLOSED
CL	CENTER LINE	NEC	NATIONAL ELECTRICAL CODE
CLG	CEILING	NEMA	NAT'L ELEC MFR ASSOCIATION
CM	COORDINATE MOUNTING	NF	NON-FUSED
CO	CONDUIT ONLY	NIC	NOT IN CONTRACT
CT	CURRENT TRANSFORMER	NL	NIGHT LIGHT (NON-SWITCHED LIGHT)
CU	COPPER	NO	NORMALLY OPEN
		NO.	NUMBER
DISC	DISCONNECT	NTS	NOT TO SCALE
DP	DISTRIBUTION PANEL		
DPDT	DOUBLE POLE DOUBLE THROW	PB	PULL BOX
DPST	DOUBLE POLE SINGLE THROW	PF	POWER FACTOR
DWG	DRAWING	PH	PHASE
		PNL	PANEL, PANELBOARD
EM	INDIC. LIGHT OR DEVICE IS ON EMERG. POWER	PRI	PRIMARY
EMT	ELECTRICAL METALLIC TUBING	PVC	POLYVINYL CHLORIDE CONDUIT
EQUIP	EQUIPMENT	PWR	POWER
ETR	EXISTING TO REMAIN		
		RGS	RIGID GALVANIZED STEEL CONDUIT
F	FUSED		
FC	FOOTCANDLE	SEC	SECONDARY
FDR	FEEDER	SPEC	SPECIFICATION
FLA	FULL LOAD AMPS	SPST	SINGLE POLE SINGLE THROW
FLR	FLOOR	STD	STANDARD
FLUOR	FLUORESCENT	SPKR	SPEAKER
FT	FOOT, FEET	SWT	SWITCH
		SWBD	SWITCH BOARD
G,GFI,GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SWGR, SG	SWITCH GEAR
GEC	GROUNDING ELECTRODE CONDUCTOR		
GND	GROUND	TELE	TELEPHONE
		TEMP	TEMPERATURE
HID	HIGH INTENSITY DISCHARGE	TSTAT	THERMOSTAT
HMC	HAZARDOUS MATERIAL CONTRACTOR	TV	TELEVISION
HPS	HIGH PRESSURE SODIUM	TYP	TYPICAL
HZ	HERTZ		
		UG	UNDERGROUND
IG	ISOLATED GROUND	UL	UNDERWRITERS LABORATORY
IN	INCHES	UON	UNLESS OTHERWISE NOTED
INC	INCANDESCENT	UPS	UNINTERRUPTABLE POWER SUPPLY
ISC (AIC)	SHORT CIRCUIT CURRENT		
		V	VOLTS
J, JB	JUNCTION BOX	VA	VOLTAMPERES
		VFD	VARIABLE FREQUENCY DRIVE
KA	KILOAMPS		
KV	KILOVOLTS	W	WATTS (OR WIRE)
KVA	KILOVOLT AMPS	W/	WITH
KW	KILOWATTS	W/O	WITHOUT
KWH	KILOWATT HOURS	WP	WEATHERPROOF
		WT	WATERTIGHT
		XFMR	TRANSFORMER

GENERAL BIOSAFETY LEVEL 3 (BL3) NOTES

1. THE FIRST FLOOR LABORATORIES AND LABORATORY SUPPORT SPACES ARE LOCATED WITHIN A BSL-3 CONTAINMENT AREA. THE FINISHED FLOORS, WALLS AND CEILINGS OF EACH ROOM WITHIN THE BSL3 CONTAINMENT AREA REPRESENT THE CONTAINMENT BARRIER IN EACH SPACE. ALL PENETRATIONS THROUGH CONTAINMENT BARRIERS INTO CONTAINMENT SPACES MUST BE SEALED TO MAINTAIN THE INTEGRITY OF BSL3 SPACES.
2. ALL NEW AND EXISTING CONDUITS SERVING BSL3 CONTAINMENT SPACES MUST BE OF THE RIGID VANIZED STEEL TYPE. ALL CONDUIT FITTINGS AND COUPLINGS MUST BE OF THE THREADED, RAINTIGHT TYPE.
3. ALL NEW OUTLET BOXES IN CONTAINMENT AREA SPACES MUST BE OF THE CAST TYPE WITH THREADED CONDUIT ENTRY POINTS. ALL UNUSED CONDUIT ENTRY POINTS IN ALL NEW AND EXISTING CAST BOXES SHALL BE PROVIDED WITH THREADED CLOSURES.
4. A HAZARDOUS LOCATION TYPE CONDUIT SEAL-OFF FITTING SHALL BE INSTALLED ON ALL CONDUITS THAT EXIT BSL3 CONTAINMENT AREAS. SEAL-OFF FITTINGS SHALL BE LOCATED IMMEDIATELY ABOVE CONDUIT PENETRATIONS THROUGH THE SECOND FLOOR SLAB. ALL CONDUIT PENETRATIONS THROUGH THE SECOND FLOOR SLAB AREA IN MECHANICAL/ELECTRICAL ROOM AREAS SHALL BE LOCATED WITHIN CURBED AREAS TO PREVENT POTENTIAL LEAKS INTO FIRST FLOOR SPACES. AFTER CONDUCTORS ARE INSTALLED, FILL SEAL-OFF FITTINGS WITH SILICONE BASED CAULK MATERIAL TO MAINTAIN THE INTEGRITY OF BSL3 CONTAINMENT AREAS. PROVIDE AL AIRTIGHT SEAL AROUND CONDUIT PENETRATIONS THROUGH THE SECOND FLOOR SLAB TO MAINTAIN CODE REQUIRED ASSEMBLY RATINGS.
5. SEAL AROUND ALL BOX PENETRATIONS THROUGH CONTAINMENT BARRIERS WITH SILICONE BASED CAULK MATERIAL TO MAINTAIN THE INTEGRITY OF BSL3 CONTAINMENT AREAS.
6. SEAL AROUND ALL NEW AND EXISTING CONDUIT PENETRATIONS THROUGH CONTAINMENT BARRIERS WITH SILICONE BASED CAULK MATERIAL TO MAINTAIN THE INTEGRITY OF BSL3 CONTAINMENT AREAS.
7. PROVIDE A SILICONE CAULK SEAL BETWEEN ALL SURFACE MOUNTED ELECTRICAL DEVICES AND FINISHED CEILINGS AND WALLS TO MAINTAIN THE INTEGRITY OF BSL3 CONTAINMENT AREAS.
8. PROVIDE A SILICONE CAULK SEAL BETWEEN ELECTRICAL DEVICE FACEPLATES AND FINISHED CEILINGS AND WALLS TO MAINTAIN THE INTEGRITY OF BSL3 CONTAINMENT AREAS.
9. WHERE EXISTING CONDUIT IS REUSED, REMOVE EXISTING SEALANT IN ALL BOXES, SEAL OFF FITTINGS, PENETRATIONS AND THE LIKE AND REPLACE WITH NEW.

GENERAL NOTES

(THESE NOTES APPY TO ALL ELECTRICAL SHEETS)

1. A MAXIMUM OF SIX(6) CURRENT - CARRYING WIRES SHALL BE INSTALLED IN ANY ONE(1) CONDUIT. ALL BRANCH CIRCUITS EXCEPT MOTOR CIRCUITS SHALL BE INSTALLED WITH A DEDICATED NEUTRAL WIRE.
2. COORDINATE ALL WORK WITH OTHER TRADES. OFFSET PANELS, LIGHTS, RECEPTACLES AND CONDUIT AS REQUIRED. APPROVAL MUST BE OBTAINED FROM ARCHITECT PRIOR TO OFFSETTING ANY DEVICE OR EQUIPMENT.
3. CONTRACTOR SHALL COORDINATE ALL SHUT DOWNS WITH OWNER. NO SHUT DOWNS SHALL BE PERFORMED WITHOUT RECEIVING PRIOR APPROVAL FROM OWNER.
4. COORDINATE WITH ALL OTHER TRADES AND DISCONNECT OR REMOVE ELECTRICAL WIRING, EQUIPMENT, ETC. TO MAKE WORK AREA SAFE FOR DEMOLITION BY OTHER CONTRACTORS.
5. NO CONDUIT OR DEVICES IN FINISHED AREAS SHALL BE SURFACE MOUNTED. CONTRACTOR SHALL RECESS OR CONCEAL CONDUITS AND DEVICES AS REQUIRED. WHERE WALL TRENCHING IS REQUIRED, SAME SHALL BE APPROVED BY ARCHITECT.
6. CONTRACTOR SHALL GAIN APPROVAL FROM ARCHITECT PRIOR TO INSTALLING ANY SURFACE MOUNTED DEVICES.
7. CONTRACTOR SHALL RE-LABEL AND UPDATE SCHEDULES IN ALL EXISTING-TO-REMAIN PANELBOARDS AT THE COMPLETION OF THE PROJECT. PROVIDE NEW TYPED DIRECTORIES FOR EXISTING PANELBOARDS TO REFLECT ALL WORK DONE AS PART OF THIS PROJECT.
8. ALL EXISTING CONDUIT AND WIRING BEING CONNECTED TO NEW WORK THAT IS NOT IN COMPLIANCE WITH THE NEC SHALL BE CORRECTED AS REQUIRED.
9. AFTER COMPLETION OF NEW WORK, REMOVE ALL TEMPORARY EQUIPMENT, CONDUIT, AND WIRING NOT REQUIRED TO REMAIN.
10. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK.
11. ALL EXISTING ITEMS REMOVED DURING DEMOLITION SHALL BE TURNED OVER TO OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOVING THE ITEMS TO A STORAGE LOCATION AS DETERMINED BY THE OWNER. ANY ITEMS THAT ARE NOT TO BE KEPT BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR. COORDINATE AS REQUIRED.
12. ELECTRICAL SERVICE SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
13. ALL CONDUITS SHALL BE HELD AS HIGH AND AS TIGHT AS POSSIBLE TO THE STRUCTURE SUPPORTING THE FLOOR ABOVE AREA WHERE INSTALLATION OCCURS. COORDINATE WITH OTHER TRADES AS REQUIRED.
14. COORDINATE THE ROUTING OF ALL CONDUITS WITH OTHER TRADES. MAKE OFFSETS AS REQUIRED. FURNISH AND INSTALL JUNCTION AND PULL BOXES AS REQUIRED. ROUTING SHOWN ON PLANS IS DIAGRAMMATIC.
15. CONTRACTOR SHALL REROUTE, RELOCATE, OR REMOVE ANY CONDUIT, FIXTURES, OR OTHER EXISTING ELECTRICAL DEVICES AS REQUIRED FOR NEW WORK. MAINTAIN AND RESTORE POWER TO ALL EXISTING DEVICES BEING SERVED IN UNDISTURBED AREAS, AND DEVICES THAT ARE SHOWN AS EXISTING TO REMAIN.
16. ALL CIRCUITS FROM EXISTING-TO-REMAIN PANELBOARDS THAT HAVE THEIR ENTIRE LOAD REMOVED AND ARE NOT REQUIRED TO BE REUSED TO SERVE NEW LOADS, AS SHOWN ON NEW WORK DRAWINGS, SHALL HAVE THEIR CONDUIT AND WIRE REMOVED BACK TO THEIR PANELBOARD AND THEIR ASSOCIATED BREAKER SHALL BE LABELED AS A SPARE. CONDUIT THAT IS LOCATED IN THE FLOOR SLAB OR ABOVE INACCESSIBLE CEILING SHALL BE ABANDONED IN PLACE. HOWEVER, ALL CONDUCTORS SHALL BE REMOVED. SEAL ALL OPENINGS MADE BY REMOVAL OF EXISTING CONDUIT.
17. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL DEVICES, LIGHT FIXTURES, ELECTRICAL EQUIPMENT SHOWN DARK AND DASHED ON THE DEMOLITION PLANS. DEVICES SHOWN LIGHT ARE EXISTING TO REMAIN.
18. THE CONTRACTOR SHALL VERIFY THE OPERATION OF ALL DEVICES THAT ARE EXISTING TO REMAIN. ALL NON-OPERATIONAL DEVICES SHALL BE CORRECTED OR REPLACED AS REQUIRED. REPLACE ALL DAMAGED AND MISSING COVERPLATES IN AREAS OF NEW WORK AS REQUIRED.
19. COORDINATE REMOVAL OF ALL COMMUNICATION WIRING WITH OWNER. ALL ABANDONED COMMUNICATION CABLING SHALL BE REMOVED AS REQUIRED. COORDINATE REMOVAL WITH OWNER.
20. ALL CONDUIT, WIRING, DEVICES AND EQUIPMENT TO BE REMOVED MAY NOT BE SHOWN. HOWEVER, ALL ITEMS NOT REQUIRED TO REMAIN SHALL BE REMOVED.
21. THE CONTRACTOR SHALL MATCH THE RATINGS AND CHARACTERISTICS OF ALL NEW CIRCUIT BREAKERS BEING FURNISHED TO THOSE OF THE EXISTING BREAKERS IN EXISTING PANELBOARDS.
22. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ELEVATIONS FOR EXACT LOCATION OF LIGHT FIXTURES.
23. ALL RECEPTACLES INSTALLED IN BATHROOMS OR WITHIN SIX FEET OF ANY SINK SHALL BE GFI PROTECTED.
24. PANELBOARD HOMERUNS AND ASSOCIATED CIRCUIT NUMBERS INCLUDING RELAY NUMBERS SHOWN IN THIS SET ARE TAKEN FROM EXISTING DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY ON SITE EXISTING CIRCUIT AND RELAYS PRIOR TO STARTING NEW CONSTRUCTION WORK. COORDINATE ALL NECESSARY OUTAGES WITH OWNER.
25. NO JUNCTION BOX ARE ALLOWED ABOVE HARD CEILINGS. PLAN NEW CONDUIT AND WIRING SYSTEM AND MODIFY EXISTING CONDUIT AND WIRING SYSTEM AS NEEDED TO MEET THIS REQUIREMENT.
26. INSTALL A MAXIMUM OF FOUR (4) NEW CATEGORY 6 CABLES IN ONE (1) 3/4" CONDUIT. INSTALL A MAXIMUM OF ONE (1) NEW CATEGORY 6 CABLES IN ONE (1) 1/2" CONDUIT.
27. CLEAN ALL LIGHT FIXTURES IN ALL AREAS WHERE CONSTRUCTION HAS OCCURRED.
28. CAREFULLY COORDINATE THE MOUNTING HEIGHTS OF ALL NEW DEVICES AND SURFACE RACEWAYS WITH THE ARCHITECT.

SCHEDULE OF LIGHT FIXUTRES

TYPE	MANUFACTURER/MODEL	DESCRIPTION	MOUNTING	DRIVER/BALLAST	LAMP	VOLTAGE	WATTAGE
A	L.C. DOAN	1'x4', LED SURFACE MOUNTED CONTAINMENT AREA LIGHTING FIXTURE WITH WELDED (SEALED) ONE PIECE STAINLESS STEEL HOUSING, SEALED HUB/RING WIRING. ONE PIECE LENS FRAME GASKET AND SUITABLE FOR ROW MOUNTING WHERE APPLICABLE. FIXTURE AND HOUSING SHALL BE OF AIRTIGHT CONSTRUCTION. ARRANGE LED BOARDS AND SUPPLY DRIVER AS NEEDED FOR DOUBLE SWITCHING.	SURFACE GYP	INTEGRAL DRIVER	LED, 4294 LUMENS, 3500K, 80 CRI	277V	40 W
B	CREE LIGHTING	CR SERIES CR14. 1'x4' LED ARCHITECTURAL TROFFER. RECESSED IN LAY-IN CEILING. ARRANGE LED BOARDS AND SUPPLY DRIVER AS NEEDED FOR DOUBLE SWITCHING.	LAY-IN	INTEGRAL DRIVER	LED 4000 LUMENS, 3500K, 80 CRI	277V	40 W
C	PATHWAY LIGHTING	CALIBER PLUS, SERIES ISLBV9L LED SHOWER LENSED DOWNLIGHT. MEDIMUM DISTRIBUTION.	LAY-IN	INTEGRAL DRIVER	LED 1437 LUMENS, 3500K, 80 CRI	277V	21 W
E	DUAL LITE	SE SERIES CAST ALUMINUM LED EXIT LIGHT FIXTURE. PROVIDE SINGLE OR DOUBLE FACED SIGNS AS INDICATED ON DRAWINGS. PROVIDE DIRECTION ARROWS AS INDICATED OR AS REQUIRED. MOUNT AS SHOWN ON DRAWINGS. RED LETTERS.	MATCH EXISTING	LED WITH INTEGRAL DRIVER	LED	120-277V	5 W
EMB	COMPASS (A DIVISION OF HUBBELL)	CU2FO EMERGENCY BATTERY UNIT. TWO FIXED OPTIC HEADS. WHITE THERMOPLASTIC HOUSING SELF TEST & DIAGNOSTICS OF INVERTER. BATTERY SHALL SUPPLY 30 MINUTES OF OPERATION.	MATCH EXISTING	LED WITH INTEGRAL DRIVER	LED	120-277V	10 W

NOTE: ALL LIGHT FIXTURES SHALL BE SUBMITTED WITH A TABLE THAT SHOWS EACH FIXTURE TYPE, LUMENS, CRI, COLOR TEMPERATURE AND TOTAL WATTAGE. FIXTURE SHOP DRAWINGS WILL NOT BE REVIEWED IF SUBMITTED WITHOUT TABLE.

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
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NUMBER E-22815
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

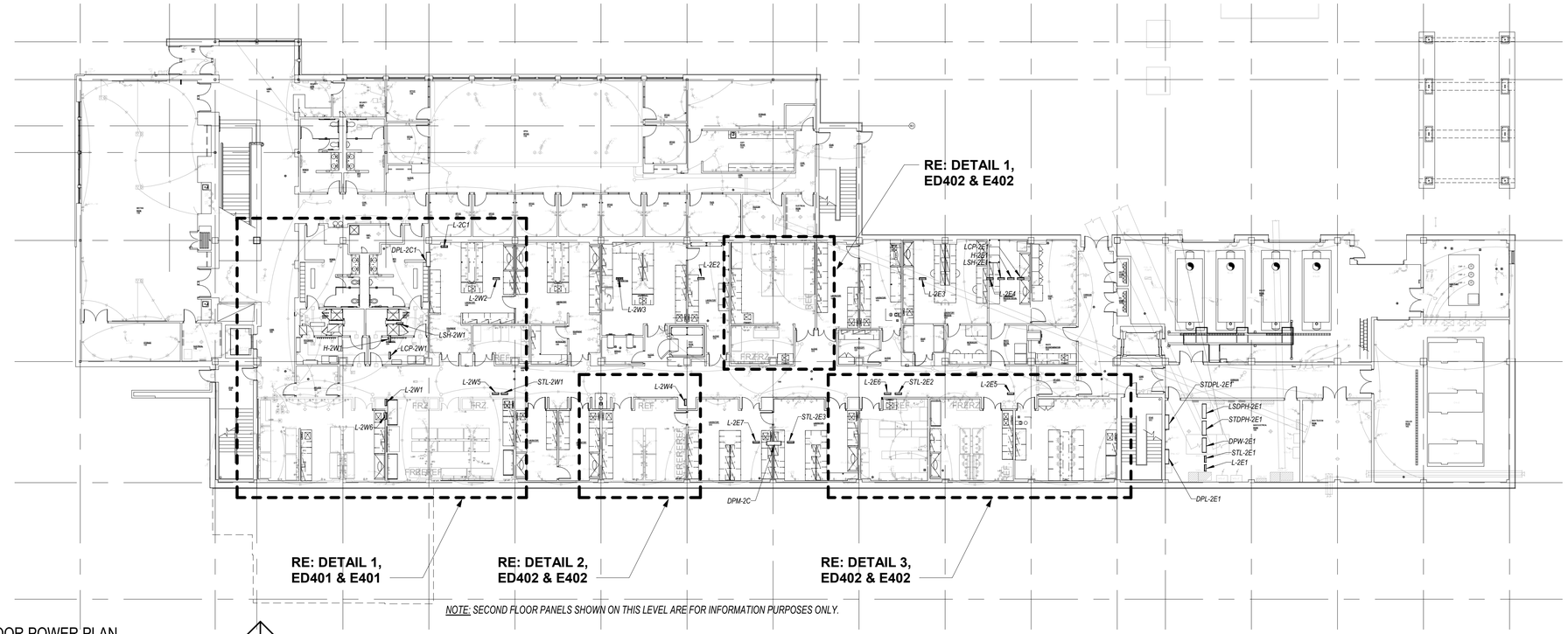
CAD DWG FILE: E000
DRAWN BY: BWC
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:
SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

SHEET NUMBER:
E000

SHEET 030 OF 046

7/2/21

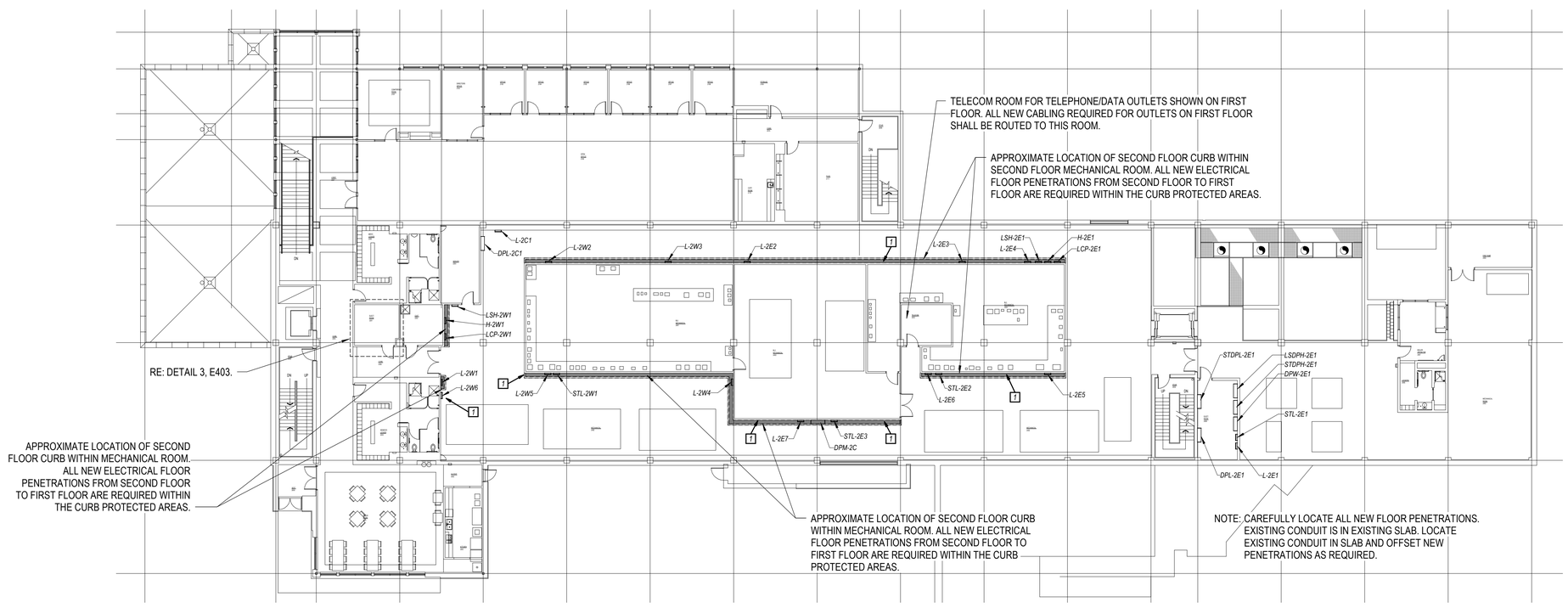


NOTE: SECOND FLOOR PANELS SHOWN ON THIS LEVEL ARE FOR INFORMATION PURPOSES ONLY.

1 FIRST FLOOR POWER PLAN
E101 1/16" = 1'-0"

GENERAL NOTES

1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.



2 SECOND FLOOR POWER PLAN
E101 1/16" = 1'-0"

KEYED NOTES 0

1 EXISTING CURB. ALL NEW PENETRATIONS FOR NEW CIRCUITS ON FIRST FLOOR SHALL ROUTE UP IN TO EXISTING CURB SPACE. (TYPICAL) ONCE THROUGH CURB SPACE ROUTE TO APPROPRIATE PANEL INDICATED ON HOME RUN. (TYPICAL) REFER ALSO TO DETAIL ON SHEET E500. EXISTING CABLE TRAY RUNS ABOVE EXISTING CURB.

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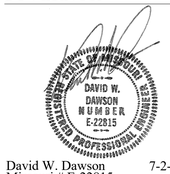

David W. Dawson 7-2-21
Missouri # E-22815

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817 Wyandotte Kansas City Missouri 64105 816.421.8200 gastingerwalker.com
Project Number: 2020-401

IMEG
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816.842.8437

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: E101
DRAWN BY: BWC
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:

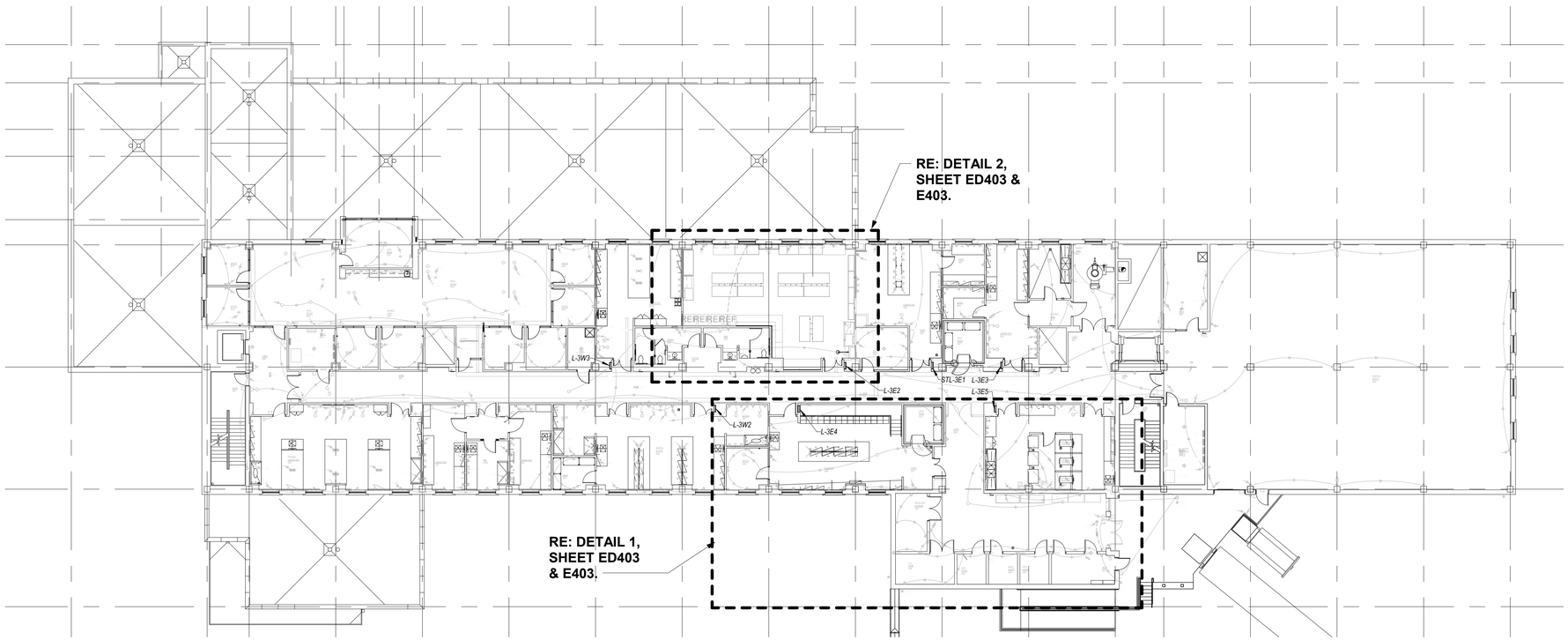
OVERALL 1ST & 2ND FLOOR POWER & COMMUNICATIONS PLANS

SHEET NUMBER:

E101

SHEET 031 OF 046

7/2/21



1 THIRD FLOOR POWER PLAN

E102 1/16" = 1'-0"

NORTH

GENERAL NOTES

1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
DAVID W. DAWSON
NUMBER E-22815
REGISTERED PROFESSIONAL ENGINEER

David W. Dawson 7-2-21
Missouri # E-22815

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DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: E102
DRAWN BY: BWC
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:

OVERALL 3RD FLOOR POWER & COMMUNICATIONS PLAN

SHEET NUMBER:

E102

SHEET 032 OF 046

7/2/21

GENERAL NOTES

1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.

KEYED NOTES 0

1 INTERCEPT EXISTING CONDUIT FOR REUSE IN NEW LAB CONSTRUCTION. MODIFY, ADAPT, EXTEND EXISTING CONDUIT AS REQUIRED FOR CONNECTION TO NEW WORK UNLESS OTHERWISE NOTED ON NEW WORK PLANS. REMOVE EXISTING WIRE. NEW WIRE SHALL BE INSTALLED IN EXISTING CONDUIT WHERE SHOWN ON NEW WORK PLAN.

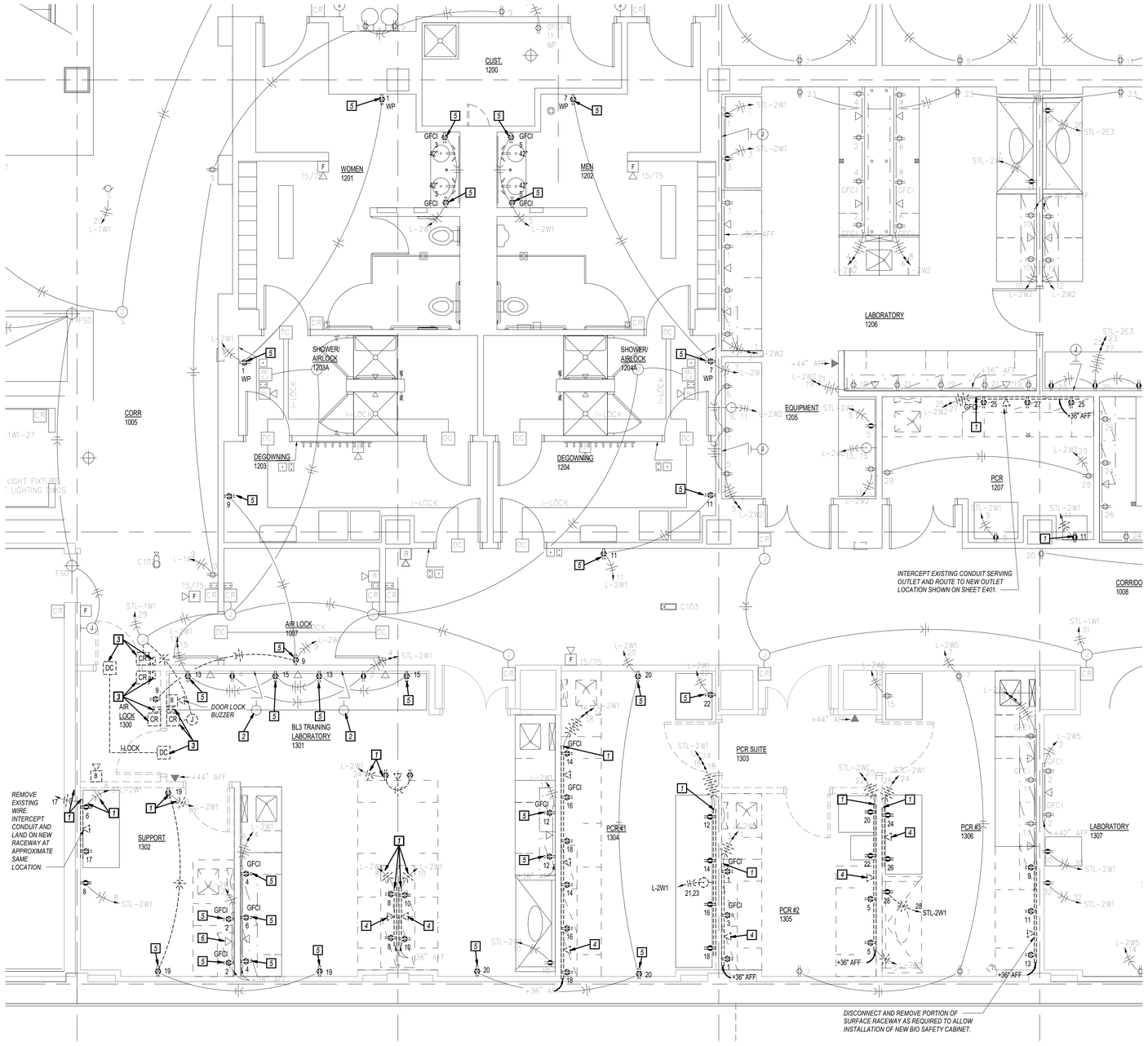
2 EXISTING DRAWINGS INDICATE EMPTY JUNCTION BOX WITH SPARE CONDUIT STUBBED BACK TO LEVEL 2 MECHANICAL ROOM. FIELD VERIFY AND REPORT FINDINGS TO ENGINEER.

3 DISCONNECT AND REMOVE ALL EXISTING SECURITY DEVICES AND ASSOCIATED WIRING AS REQUIRED. COORDINATE WITH EXISTING SECURITY SYSTEM AND OWNER. FIELD VERIFY PANEL LOCATIONS.

4 REMOVE EXISTING WIRE. INTERCEPT EXISTING CONDUIT AND EXTEND TO NEW LOCATION SHOWN ON SHEET E401. IF DEVICE CONDUIT IS NOT SHOWN TO BE REUSED ON NEW WORK PLAN CAP AT SOURCE AND AT CEILING SPACE AND LABEL CONDUIT WITH TERMINATION LOCATION ON BOTH ENDS.

5 REMOVE EXISTING OUTLET. INSTALL NEW RED OUTLET WITH NEW LABELED FACEPLATE AND CONNECT SAME TO EXISTING WIRING.

6 REMOVE EXISTING DATA CABLING. REFER TO NEW PLANS FOR NEW CABLING. MODIFY AND ADAPT EXISTING CONDUIT AS NEEDED TO LAND ON NEW DATA OUTLETS SHOWN ON NEW WORK PLANS.

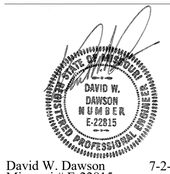


1 FIRST FLOOR POWER DEMOLITION PLAN

ED401 1/4" = 1'-0"

NORTH

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR



David W. Dawson 7-2-21
Missouri # E-22815

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: ED401
DRAWN BY: MWM
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:

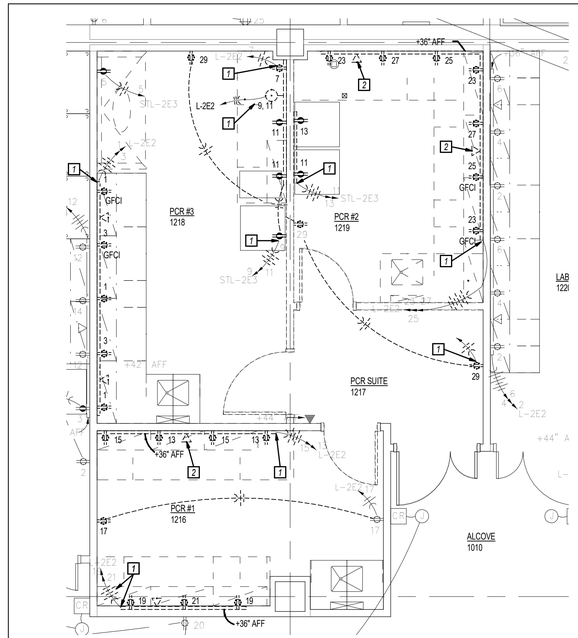
ENLARGED FIRST
FLOOR
POWER/COMM
DEMOLITION PLANS

SHEET NUMBER:

ED401

SHEET 033 OF 046

7/2/21



1 FIRST FLOOR POWER DEMOLITION PLAN

ED402 1/4" = 1'-0"

NORTH

GENERAL NOTES

1 *REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.*

KEYED NOTES 0

1 *INTERCEPT EXISTING CONDUIT FOR REUSE IN NEW LAB CONSTRUCTION. MODIFY, ADAPT, EXTEND EXISTING CONDUIT AS REQUIRED FOR CONNECTION TO NEW WORK UNLESS OTHERWISE NOTED ON NEW WORK PLANS. REMOVE EXISTING WIRE. NEW WIRE SHALL BE INSTALLED IN EXISTING CONDUIT WHERE SHOWN ON NEW WORK PLAN.*

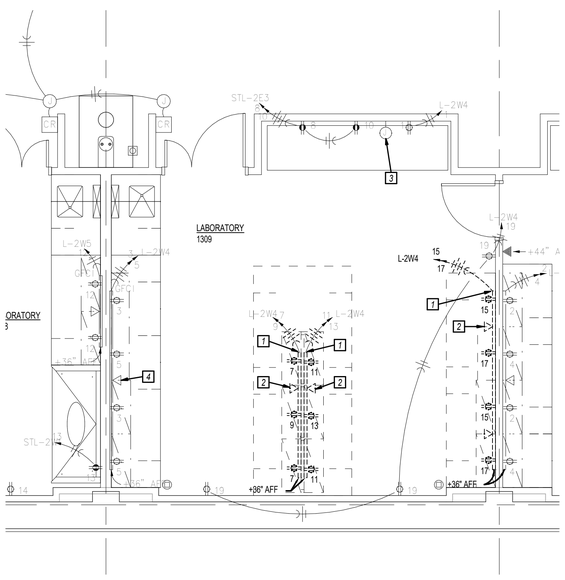
2 *REMOVE EXISTING WIRE. INTERCEPT EXISTING CONDUIT AND EXTEND TO NEW LOCATION SHOWN ON SHEET E401. IF DEVICE CONDUIT IS NOT SHOWN TO BE REUSED ON NEW WORK PLAN CAP AT SOURCE AND AT CEILING SPACE AND LABEL CONDUIT WITH TERMINATION LOCATION ON BOTH ENDS.*

3 *EXISTING DRAWINGS INDICATE EMPTY JUNCTION BOX WITH SPARE CONDUIT STUBBED BACK TO LEVEL 2 MECHANICAL ROOM. FIELD VERIFY AND REPORT FINDINGS TO ENGINEER.*

4 *REMOVE EXISTING DATA CABLING. REFER TO NEW PLANS FOR NEW CABLING. MODIFY AND ADAPT EXISTING CONDUIT AS NEEDED TO LAND ON NEW DATA OUTLETS SHOWN ON NEW WORK PLANS.*

5 *EXISTING OVERHEAD CARRIER AND DEVICES IN CARRIER ARE EXISTING TO REMAIN. EXISTING PLANS SHOW DEVICES CONNECTED TO NORMAL POWER. EXISTING OUTLETS ARE RED. FIELD VERIFY FEED LOCATION AND REPORT SAME TO ENGINEER.*

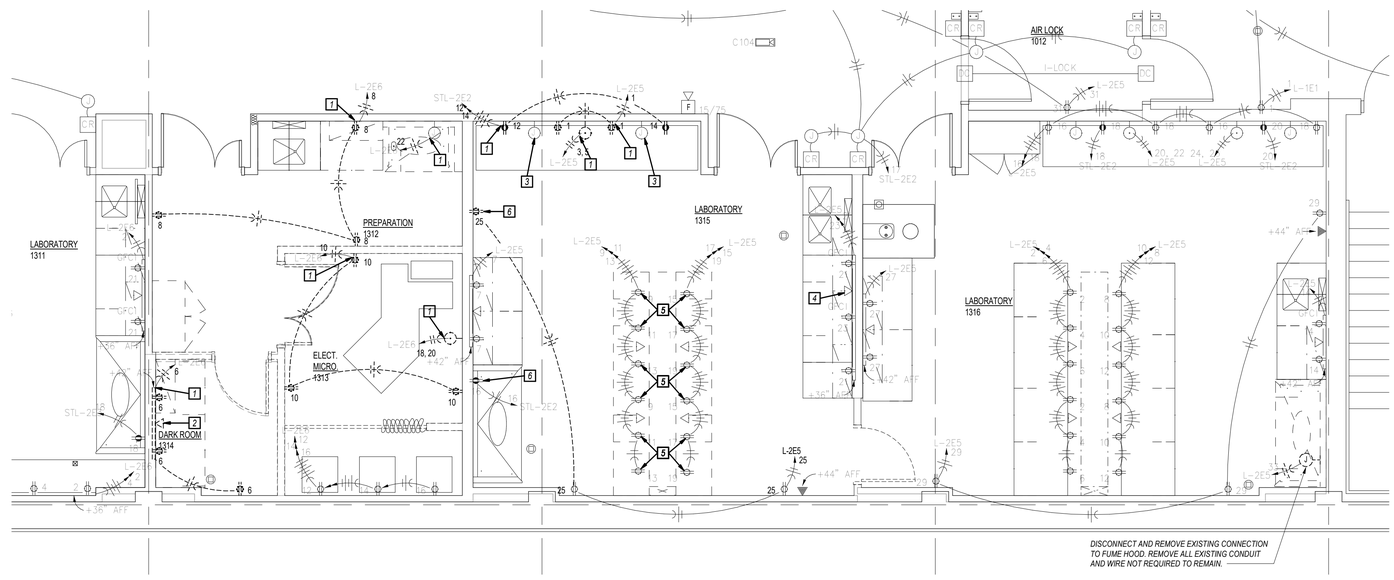
6 *POWER TO EXISTING BSC TO REMAIN.*



2 FIRST FLOOR POWER DEMOLITION PLAN

ED402 1/4" = 1'-0"

NORTH

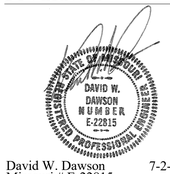


3 FIRST FLOOR POWER DEMOLITION PLAN

ED402 1/4" = 1'-0"

NORTH

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR



David W. Dawson 7-2-21
Missouri # E-22815

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: ED401
DRAWN BY: BWC
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:

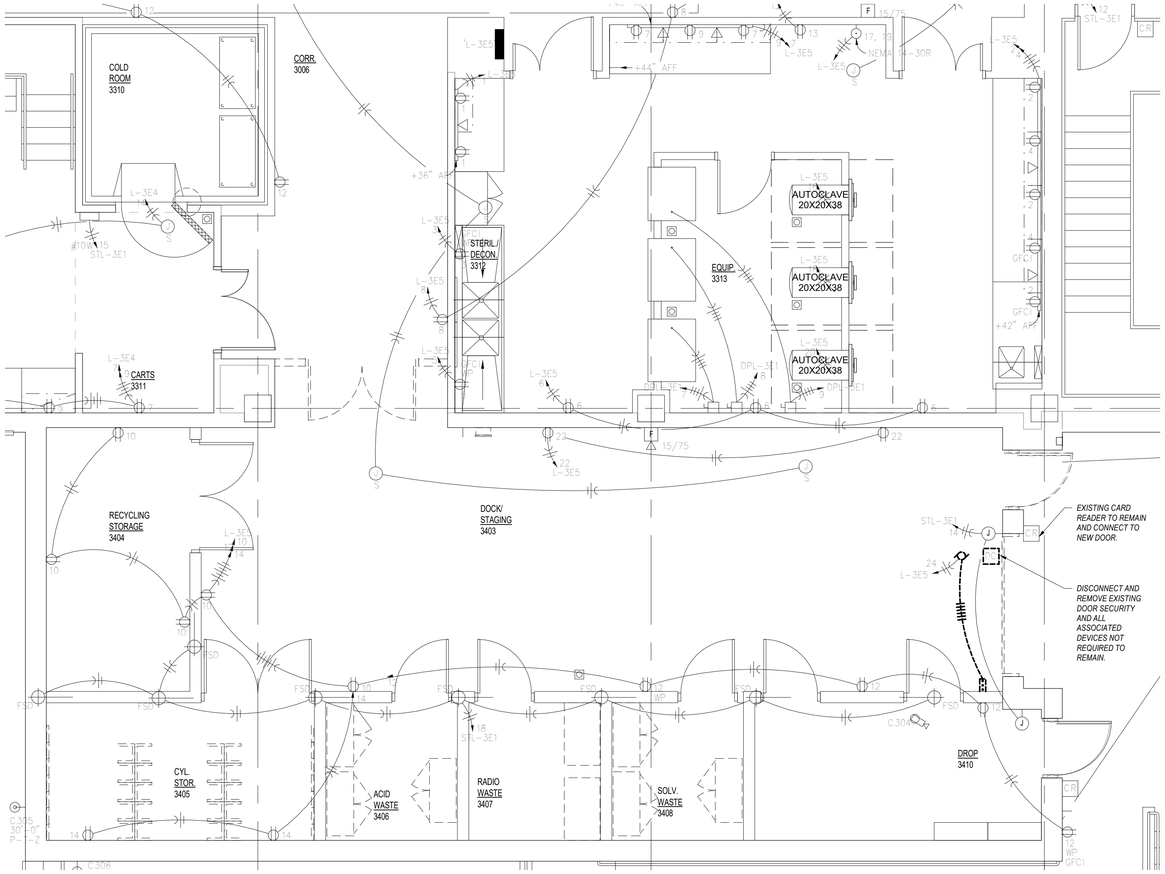
ENLARGED FIRST FLOOR POWER/COMM DEMOLITION PLANS

SHEET NUMBER:

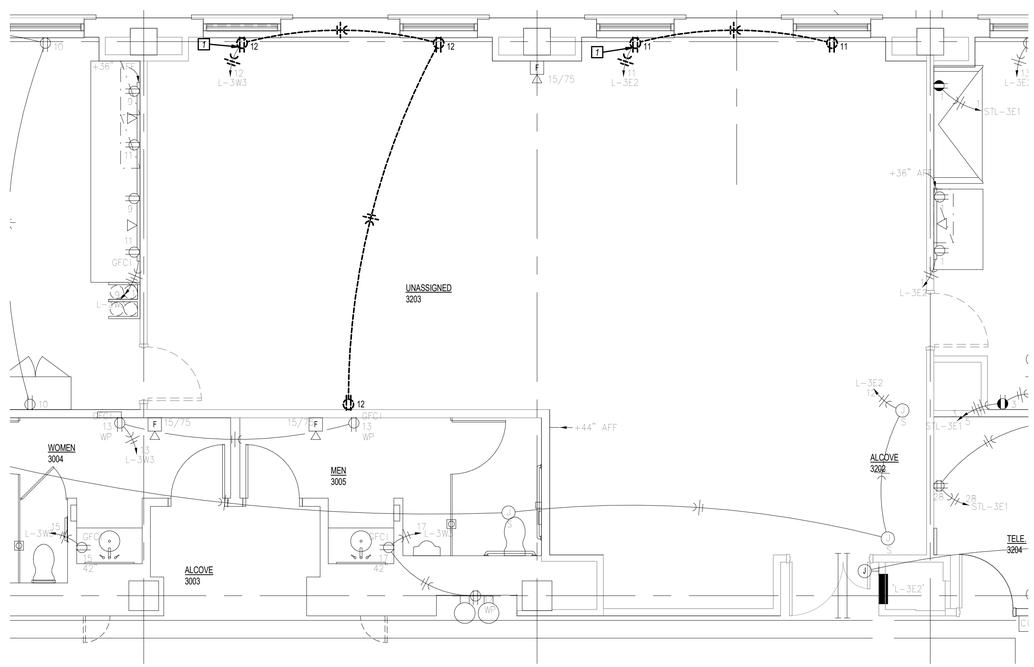
ED402

SHEET 034 OF 046

7/2/21



1 PARTIAL THIRD FLOOR POWER DEMOLITION PLAN
ED403 1/4" = 1'-0"
NORTH



2 PARTIAL THIRD FLOOR POWER DEMOLITION PLAN
ED403 1/4" = 1'-0"
NORTH

GENERAL NOTES

1 *REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.*

KEYED NOTES 0

1 *INTERCEPT EXISTING CONDUIT FOR REUSE IN NEW LAB CONSTRUCTION. MODIFY, ADAPT, EXTEND EXISTING CONDUIT AS REQUIRED FOR CONNECTION TO NEW WORK UNLESS OTHERWISE NOTED ON NEW WORK PLANS. REMOVE EXISTING WIRE. NEW WIRE SHALL BE INSTALLED IN EXISTING CONDUIT WHERE SHOWN ON NEW WORK PLAN.*

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
DAVID W. DAWSON
NUMBER E-22815
PROFESSIONAL ENGINEER

David W. Dawson 7-2-21
Missouri # E-22815

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Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: ED403
DRAWN BY: BWC
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:

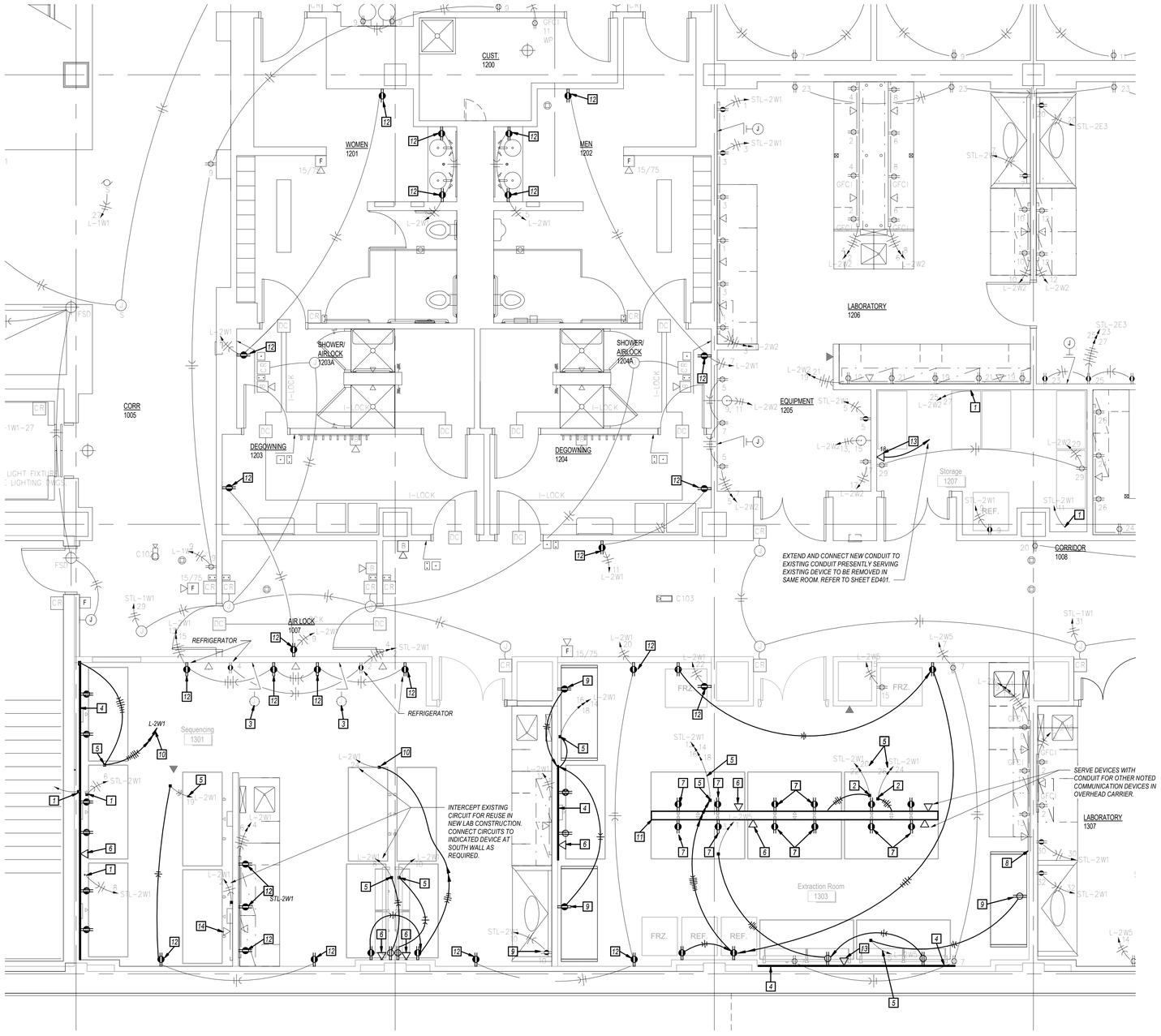
ENLARGED THIRD FLOOR POWER/COMM DEMOLITION PLANS

SHEET NUMBER:

ED403

SHEET 035 OF 046

7/2/21



1 FIRST FLOOR POWER PLAN
E401 1/4" = 1'-0"

NORTH

GENERAL NOTES

1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.

KEYED NOTES 0

1 CAP CONDUIT IN CEILING SPACE. LABEL CONDUIT AT PANEL AS SPARE AND INDICATE LAB WHERE CONDUIT TERMINATES.
2 INTERCEPT EXISTING CONDUIT FOR REUSE. CONNECT EXISTING CIRCUIT(S) TO NEW CARRIER AT APPROXIMATE LOCATION SHOWN. MODIFY, ADAPT, EXTEND EXISTING CONDUIT AS REQUIRED FOR CONNECTION TO NEW WORK. PROVIDE NEW WIRE BACK TO SOURCE. ALTERNATE CIRCUITS BETWEEN DEVICES SHOWN.
3 EXISTING DRAWINGS INDICATE EMPTY JUNCTION BOX WITH SPARE CONDUIT STUBBED BACK TO LEVEL 2 MECHANICAL ROOM. FIELD VERIFY AND REPORT FINDINGS TO ENGINEER.
4 NEW TWO PIECE SURFACE METAL RACEWAY WITH DEVICES INDICATED. SEE WIREMOLD DETAIL FOR ADDITIONAL INFORMATION.
5 NEW WIRING IN EXISTING CONDUIT. INTERCEPT EXISTING CONDUIT AND EXTEND AS SHOWN. INSTALL NEW WIRE TO SOURCE PANEL.
6 EXISTING CONDUIT INTERCEPTED AND CONNECTED TO DEVICE AT LOCATION SHOWN. IT IS ASSUMED EXISTING CONDUIT IS 3/4". FIELD VERIFY.
7 INSTALL DEVICES IN OVERHEAD SERVICE CARRIER. ADJACENT DEVICES SHALL CONNECT TO DIFFERENT CIRCUITS.
8 FURNISH AND INSTALL END CAP ON EXISTING SURFACE RACEWAY.
9 BIOLOGICAL SAFETY CABINET (BSC). COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH CABINET FURNISHED.
10 EXTEND AND CONNECT TO SPARE 20 AMP, 1 POLE CIRCUIT BREAKER(S) IN PANELBOARD NOTED. PANEL NOTED IS LOCATED ON SECOND FLOOR.
11 OVERHEAD SERVICE CARRIER FOR MOUNTING OF DEVICES. CARRIER FURNISHED AND INSTALLED BY OTHERS. COORDINATE EXACT CONNECTION LOCATIONS.
12 INSTALL NEW RED OUTLET WITH NEW LABELED FACEPLATE AND CONNECT SAME TO EXISTING WIRING.
13 INCLUDE TWO (2) CAT 6 CABLES FOR THIS OUTLET. EXTEND AND CONNECT NEW CONDUIT TO EXISTING CONDUIT PRESENTLY SERVING EXISTING DEVICE TO BE REMOVED IN SAME ROOM. REFER TO SHEET ED401.
14 INCLUDE FOUR (4) CAT 6 CABLES FOR THIS OUTLET. PULL NEW CABLE IN EXISTING CONDUIT. ROUTE NEW CABLES TO EXISTING TELECOM ROOM ON FLOOR ABOVE.

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
DAVID W. DAWSON
NUMBER E-22815
REGISTERED PROFESSIONAL ENGINEER

David W. Dawson 7-2-21
Missouri # E-22815

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DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
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ISSUE DATE: 2 July 2021

CAD DWG FILE: E401
DRAWN BY: MWM
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:

ENLARGED FIRST FLOOR POWER/COMM PLANS

SHEET NUMBER:

E401

SHEET 036 OF 046

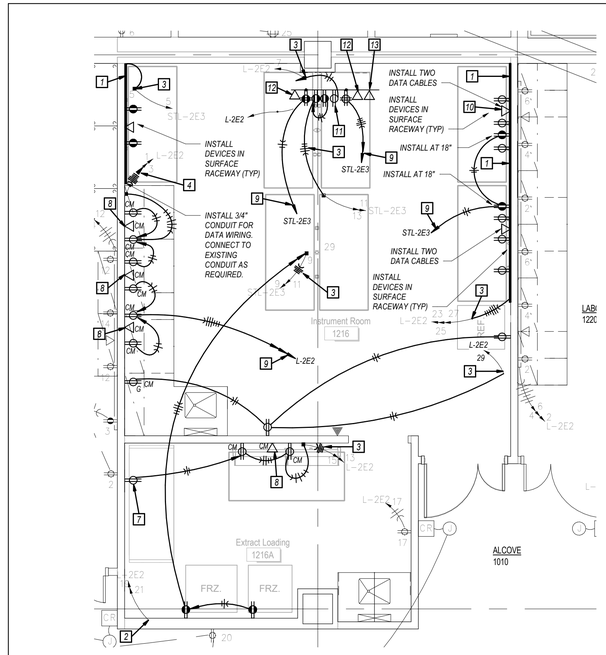
7/2/21

GENERAL NOTES

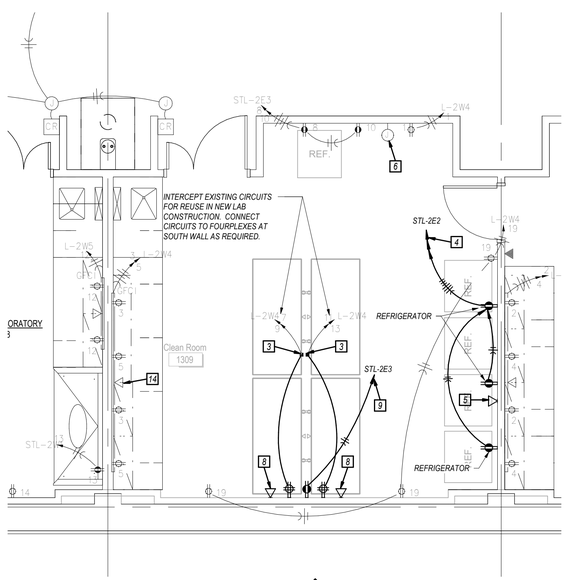
1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.

KEYED NOTES 0

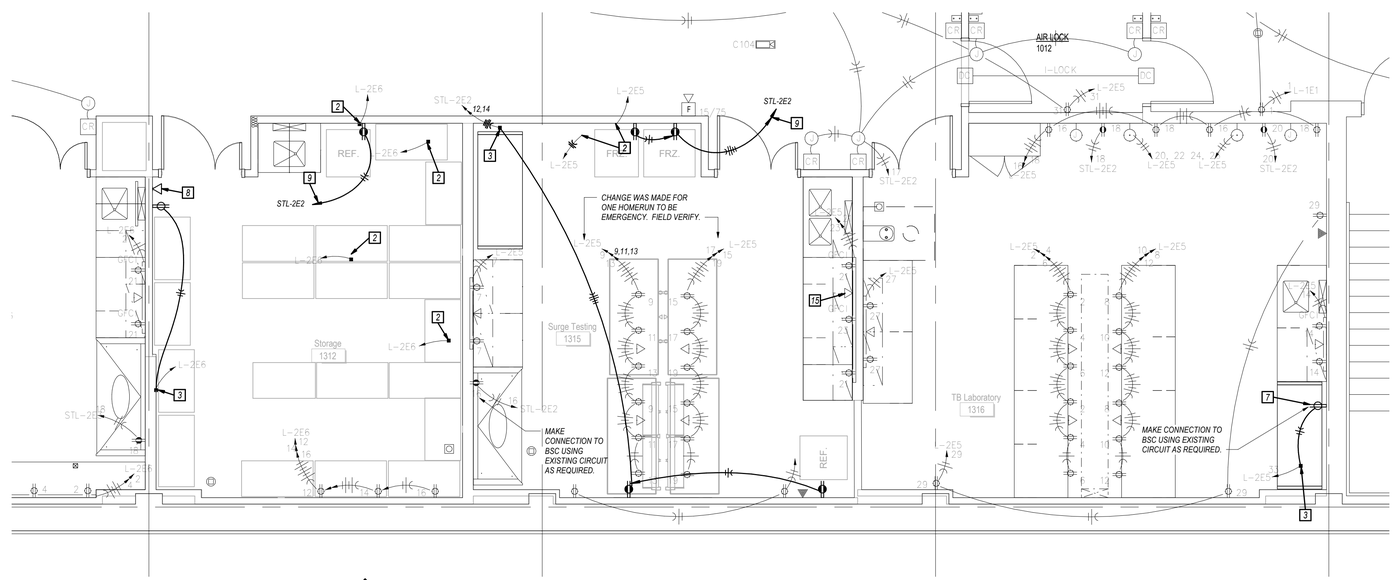
1 NEW TWO PIECE SURFACE METAL RACEWAY WITH DEVICES INDICATED. SEE WIREMOLD DETAIL FOR ADDITIONAL INFORMATION.
2 CAP CONDUIT IN CEILING SPACE. LABEL CONDUIT AT PANEL AS SPARE AND INDICATE LAB WHERE CONDUIT TERMINATES.
3 NEW WIRING IN EXISTING CONDUIT. INTERCEPT EXISTING CONDUIT AND EXTEND AS SHOWN. INSTALL NEW WIRE TO SOURCE PANEL.
4 EXTEND AND CONNECT TO SPARE 20 AMP, 1 POLE CIRCUIT BREAKER(S) IN PANELBOARD NOTED. PANEL NOTED IS LOCATED ON SECOND FLOOR.
5 EXISTING CONDUIT INTERCEPTED AND CONNECTED TO DEVICE AT LOCATION SHOWN. IT IS ASSUMED EXISTING CONDUIT IS 3/4". FIELD VERIFY.
6 EXISTING DRAWINGS INDICATE EMPTY JUNCTION BOX WITH SPARE CONDUIT STUBBED BACK TO LEVEL 2 MECHANICAL ROOM. FIELD VERIFY AND REPORT FINDINGS TO ENGINEER.
7 BIOLOGICAL SAFETY CABINET (BSC). COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH CABINET FURNISHED.
8 INCLUDE TWO (2) CAT 6 CABLES FOR THIS OUTLET. EXTEND AND CONNECT NEW CONDUIT TO EXISTING CONDUIT PRESENTLY SERVING EXISTING DEVICE TO BE REMOVED IN SAME ROOM. REFER TO SHEET ED401.
9 ROUTE WIRE AND CONDUIT TO PANELBOARD NOTED. CONDUIT TO ROUTE UP TO SECOND FLOOR IN CURB SPACE ON FLOOR ABOVE. CONNECT TO SPARE 20AMP, 1POLE CIRCUIT BREAKERS IN PANELBOARD NOTED.
10 CONNECT EXISTING DATA CONDUIT TO SURFACE RACEWAY. INSTALL CABLES IN CONDUIT TO SERVE DEVICES IN SURFACE RACEWAY.
11 INSTALL ALL DEVICES SHOWN IN WALL. (TYPICAL)
12 INCLUDE FOUR (4) CAT 6 CABLES FOR THIS OUTLET. EXTEND NEW CONDUIT UP TO SECOND FLOOR. CONDUIT TO ROUTE UP TO SECOND FLOOR IN CURB SPACE ON FLOOR ABOVE. EXTEND CONDUIT UP TO EXISTING CABLE TRAY. ROUTE CABLES TO EXISTING TELECOM ROOM IN FLOOR ABOVE.
13 INCLUDE THREE (3) CAT 6 CABLES FOR THIS OUTLET. EXTEND NEW CONDUIT UP TO SECOND FLOOR. CONDUIT TO ROUTE UP TO SECOND FLOOR IN CURB SPACE ON FLOOR ABOVE. EXTEND CONDUIT UP TO EXISTING CABLE TRAY. ROUTE CABLE TO EXISTING TELECOM ROOM ON FLOOR ABOVE.
14 INCLUDE THREE (3) CAT 6 CABLES FOR THIS OUTLET. PULL NEW CABLE IN EXISTING CONDUIT. ROUTE NEW CABLES TO EXISTING TELECOM ROOM ON FLOOR ABOVE.
15 INCLUDE TWO (2) CAT 6 CABLES FOR THIS OUTLET. PULL NEW CABLE IN EXISTING CONDUIT. ROUTE NEW CABLES TO EXISTING TELECOM ROOM ON FLOOR ABOVE.



1 FIRST FLOOR POWER PLAN
E402 1/4" = 1'-0"
NORTH



2 FIRST FLOOR POWER PLAN
E402 1/4" = 1'-0"
NORTH



3 FIRST FLOOR POWER PLAN
E402 1/4" = 1'-0"
NORTH

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
DAVID W. DAWSON
NUMBER E-22815
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CAD DWG FILE: E401
DRAWN BY: BWC
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:

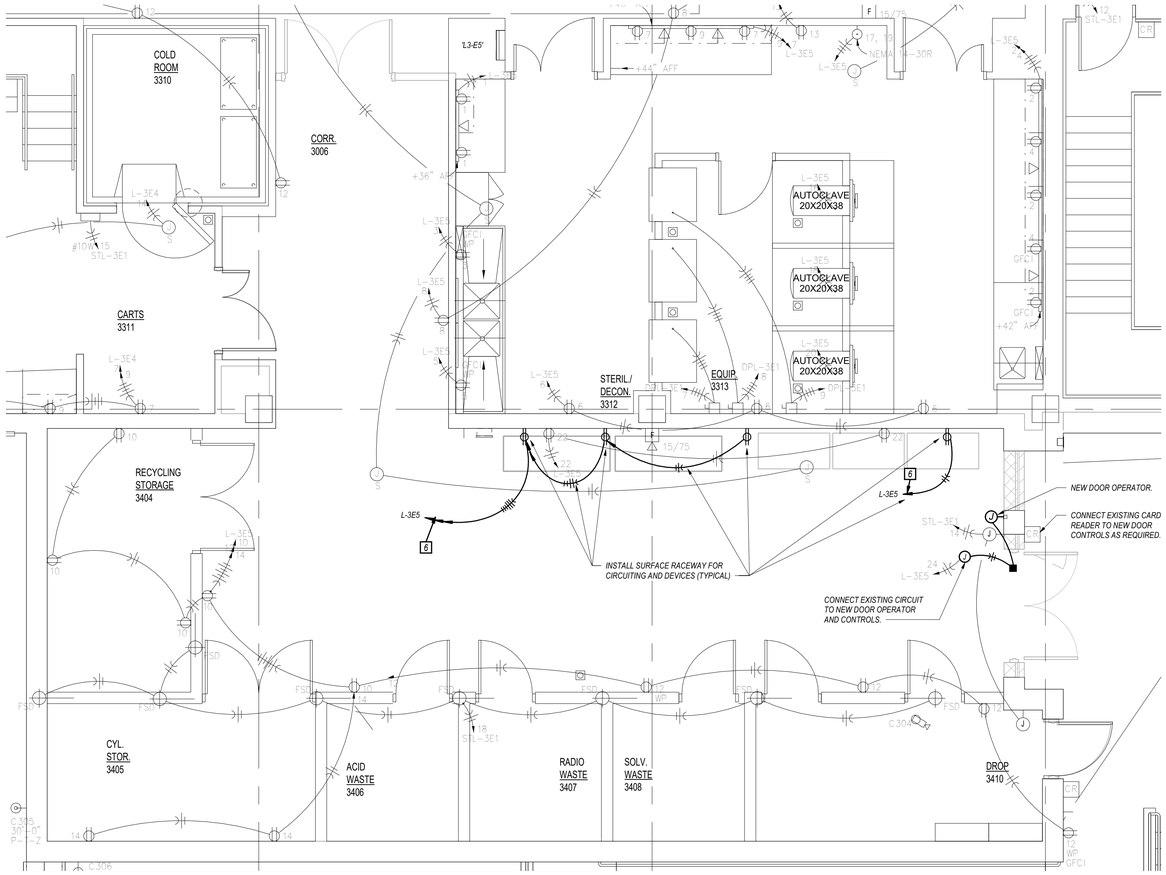
ENLARGED FIRST FLOOR POWER/COMM PLANS

SHEET NUMBER:

E402

SHEET 037 OF 046

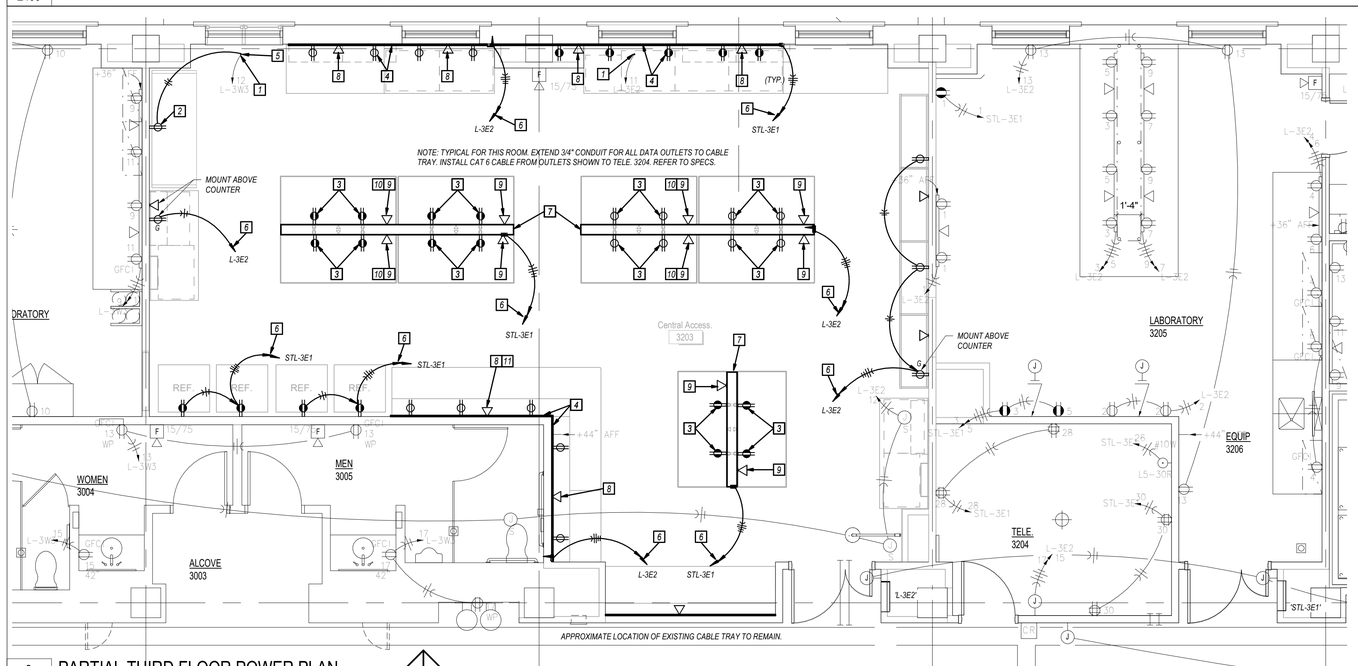
7/2/21



1 PARTIAL THIRD FLOOR POWER PLAN

E403 1/4" = 1'-0"

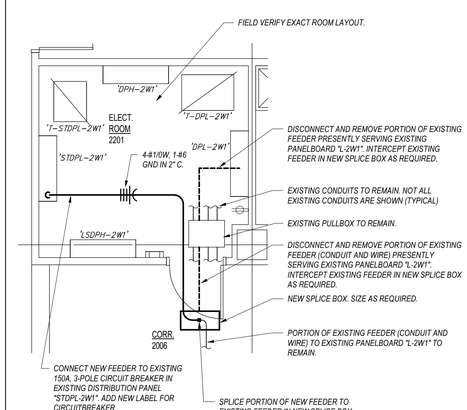
NORTH



2 PARTIAL THIRD FLOOR POWER PLAN

E403 1/4" = 1'-0"

NORTH



3 PARTIAL SECOND FLOOR POWER PLAN

E403 1/4" = 1'-0"

GENERAL NOTES

1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.

KEYED NOTES 0

1 INTERCEPT EXISTING CONDUIT FOR REUSE. CONNECT EXISTING CIRCUIT(S) TO NEW CARRIER AT APPROXIMATE LOCATION SHOWN. MODIFY, ADAPT, EXTEND EXISTING CONDUIT AS REQUIRED FOR CONNECTION TO NEW WORK. PROVIDE NEW WIRE BACK TO SOURCE. ALTERNATE CIRCUITS BETWEEN DEVICES SHOWN.

2 BIOLOGICAL SAFETY CABINET (BSC). COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH CABINET FURNISHED.

3 INSTALL DEVICES IN OVERHEAD SERVICE CARRIER. ADJACENT DEVICES SHALL CONNECT TO DIFFERENT CIRCUITS.

4 NEW TWO PIECE SURFACE METAL RACEWAY WITH DEVICES INDICATED. SEE WIREMOLD DETAIL FOR ADDITIONAL INFORMATION.

5 NEW WIRING IN EXISTING CONDUIT. INTERCEPT EXISTING CONDUIT AND EXTEND AS SHOWN. INSTALL NEW WIRE TO SOURCE PANEL.

6 EXTEND AND CONNECT TO SPARE 20 AMP, 1 POLE CIRCUIT BREAKER(S) IN PANELBOARD NOTED. PANEL NOTED IS LOCATED ON SECOND FLOOR.

7 OVERHEAD SERVICE CARRIER FOR MOUNTING OF DEVICES. CARRIER FURNISHED AND INSTALLED BY OTHERS. COORDINATE EXACT CONNECTION LOCATIONS.

8 INSTALL INDICATED DEVICE IN TWO PIECE SURFACE RACEWAY. STUB CONDUIT TO EXISTING CABLE TRAY IN CORRIDOR.

9 INSTALL INDICATED DEVICE IN OVERHEAD SERVICE CARRIER. STUB CONDUIT TO EXISTING CABLE TRAY IN CORRIDOR.

10 INCLUDE TWO (2) CAT 6 CABLES FOR THIS OUTLET.

11 INCLUDE THREE (3) CAT 6 CABLES FOR THIS OUTLET.

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

STATE OF MISSOURI
DAVID W. DAWSON
NUMBER E-22815
PROFESSIONAL ENGINEER

David W. Dawson 7-2-21
Missouri # E-22815

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Project Number: 2020-401

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: E403
DRAWN BY: BWC
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:

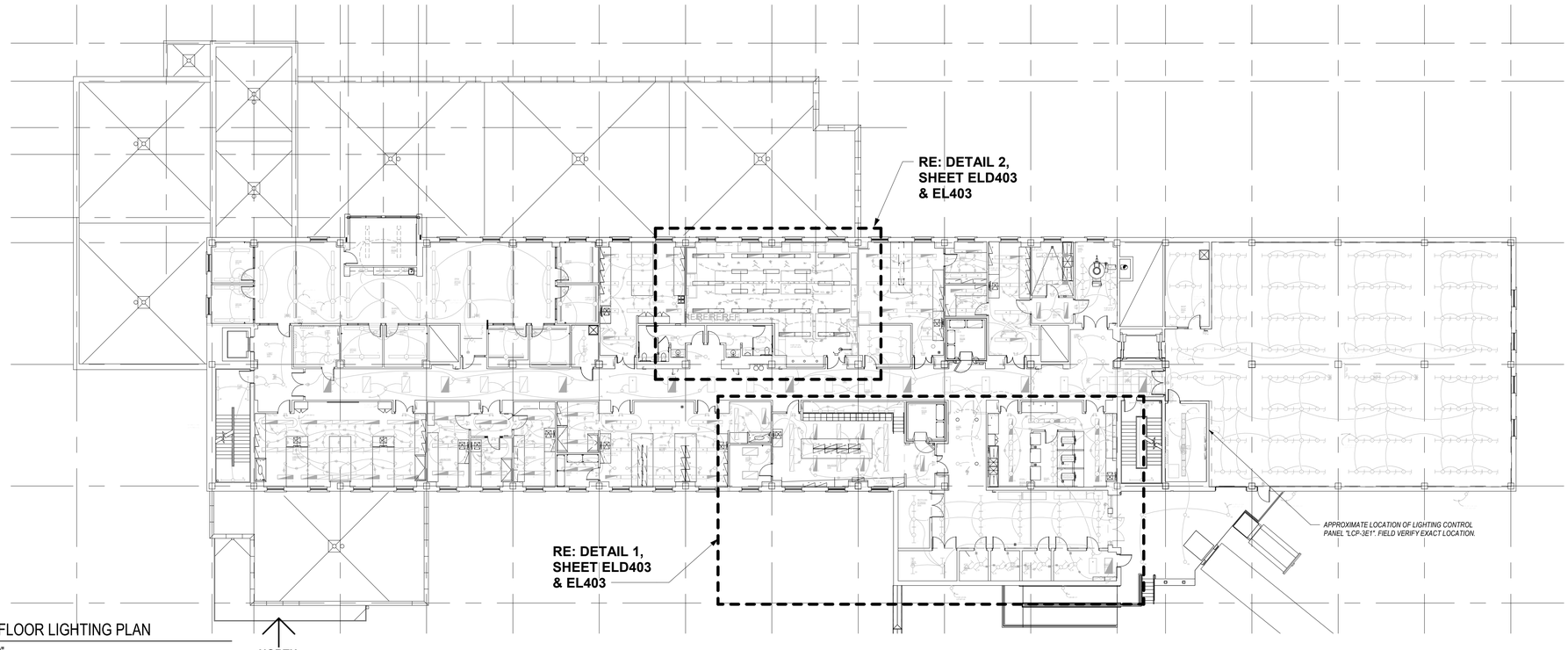
ENLARGED THIRD FLOOR POWER/COMM PLANS

SHEET NUMBER:

E403

SHEET 038 OF 046

7/2/21

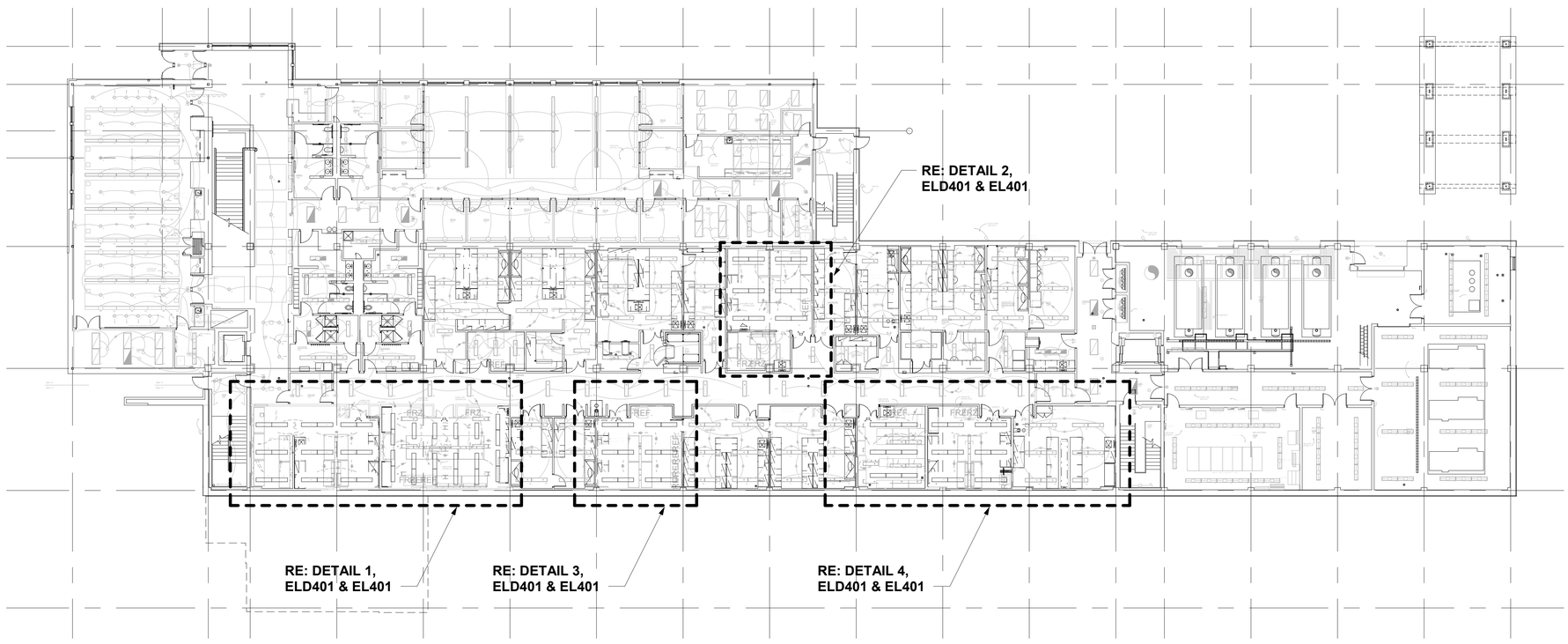


2 THIRD FLOOR LIGHTING PLAN

EL101 1/16" = 1'-0"

GENERAL NOTES

1 *REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.*



1 FIRST FLOOR POWER PLAN

EL101 1/16" = 1'-0"

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CAD DWG FILE: EL101
DRAWN BY: BWC
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:

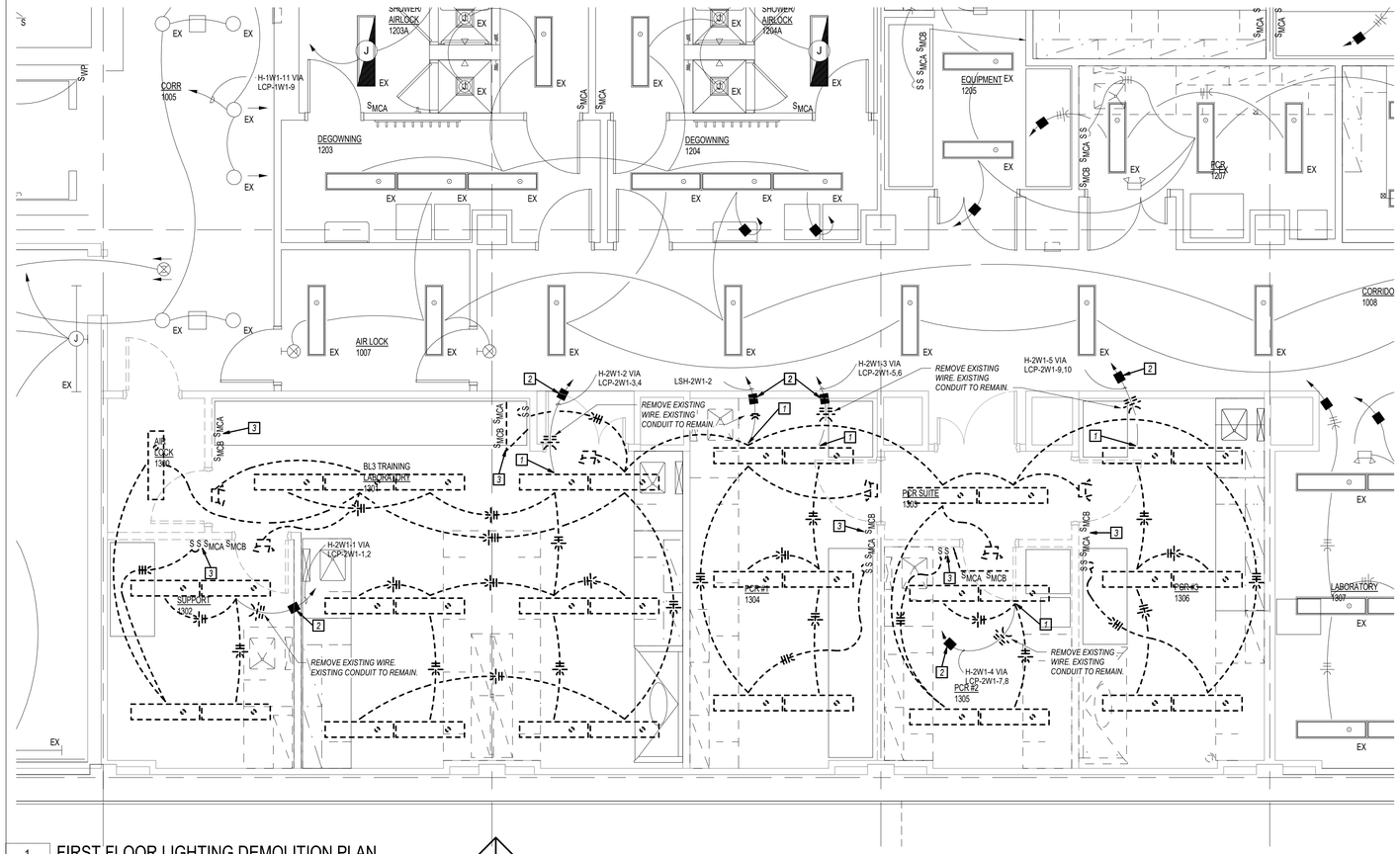
OVERALL 1ST AND
3RD FLOOR
LIGHTING PLANS

SHEET NUMBER:

EL101

SHEET 039 OF 046

7/2/21



1 FIRST FLOOR LIGHTING DEMOLITION PLAN

ELD401 1/4" = 1'-0"

GENERAL NOTES

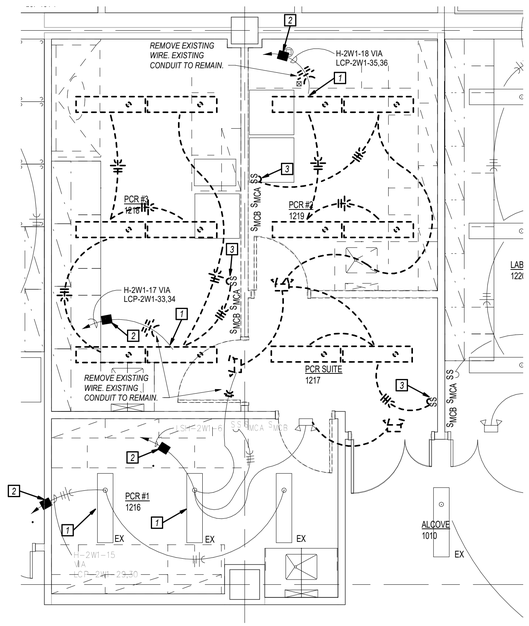
1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.

KEYED NOTES 0

1 INTERCEPT EXISTING CONDUIT FOR REUSE IN NEW LAB CONSTRUCTION. MODIFY, ADAPT, EXTEND EXISTING CONDUIT AS REQUIRED FOR CONNECTION TO NEW WORK UNLESS OTHERWISE NOTED ON NEW WORK PLANS. REMOVE EXISTING WIRE. NEW WIRE SHALL BE INSTALLED IN EXISTING CONDUIT WHERE SHOWN ON NEW WORK PLAN.

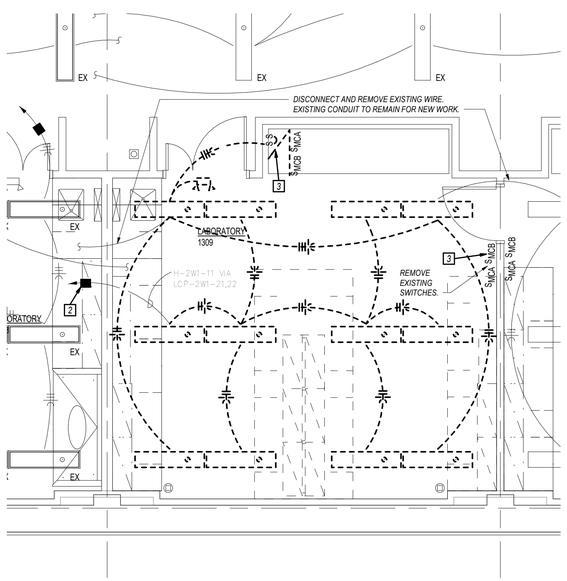
2 EXISTING CONDUIT SEAL OFF FITTING. FIELD VERIFY LOCATION.

3 DISCONNECT AND REMOVE ALL EXISTING SWITCHES AND ASSOCIATED CONDUIT AND WIRE NOT REQUIRED TO REMAIN.



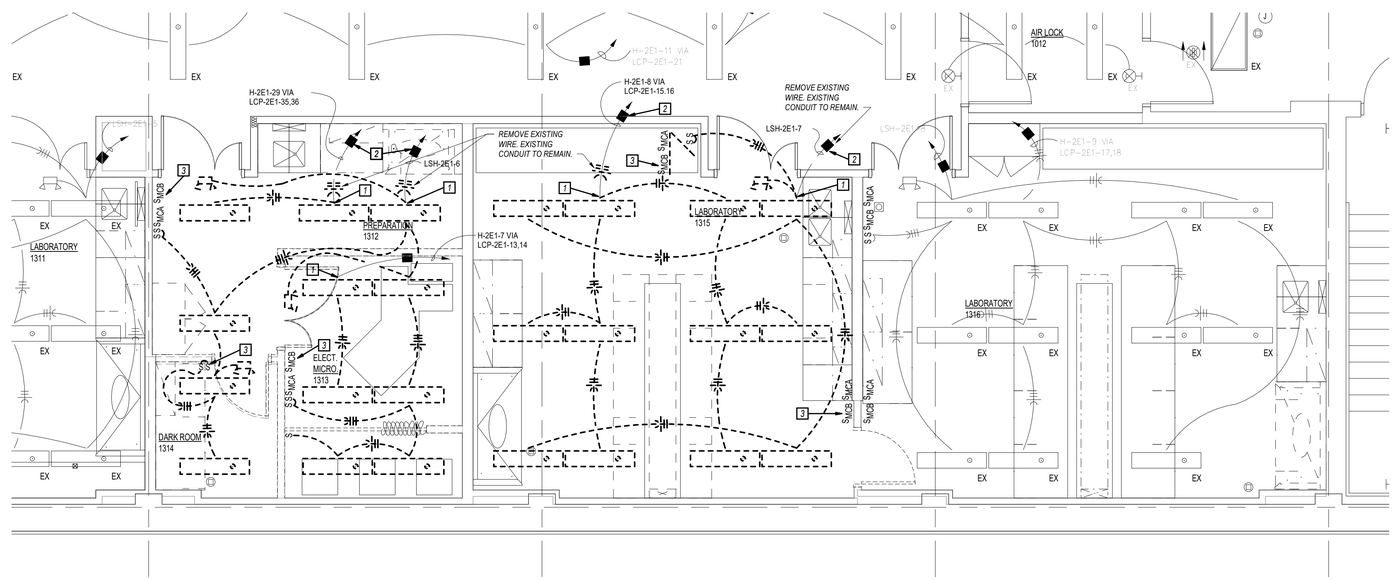
2 FIRST FLOOR LIGHTING DEMOLITION PLAN

ELD401 1/4" = 1'-0"



3 FIRST FLOOR LIGHTING DEMOLITION PLAN

ELD401 1/4" = 1'-0"



4 FIRST FLOOR LIGHTING DEMOLITION PLAN

ELD401 1/4" = 1'-0"

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CAD DWG FILE: ELD401
DRAWN BY: BWC
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:

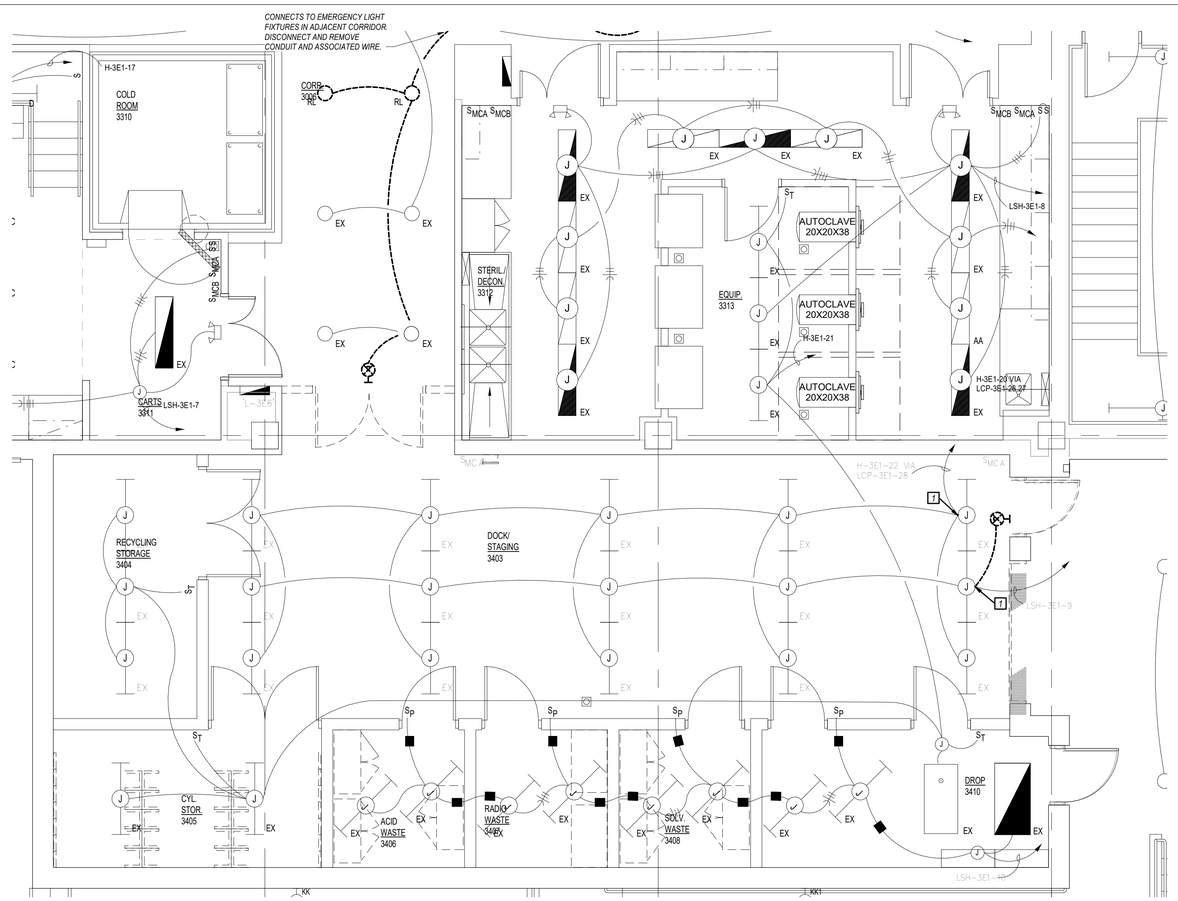
ENLARGED FIRST FLOOR LIGHTING DEMOLITION PLANS

SHEET NUMBER:

ELD401

SHEET 040 OF 046

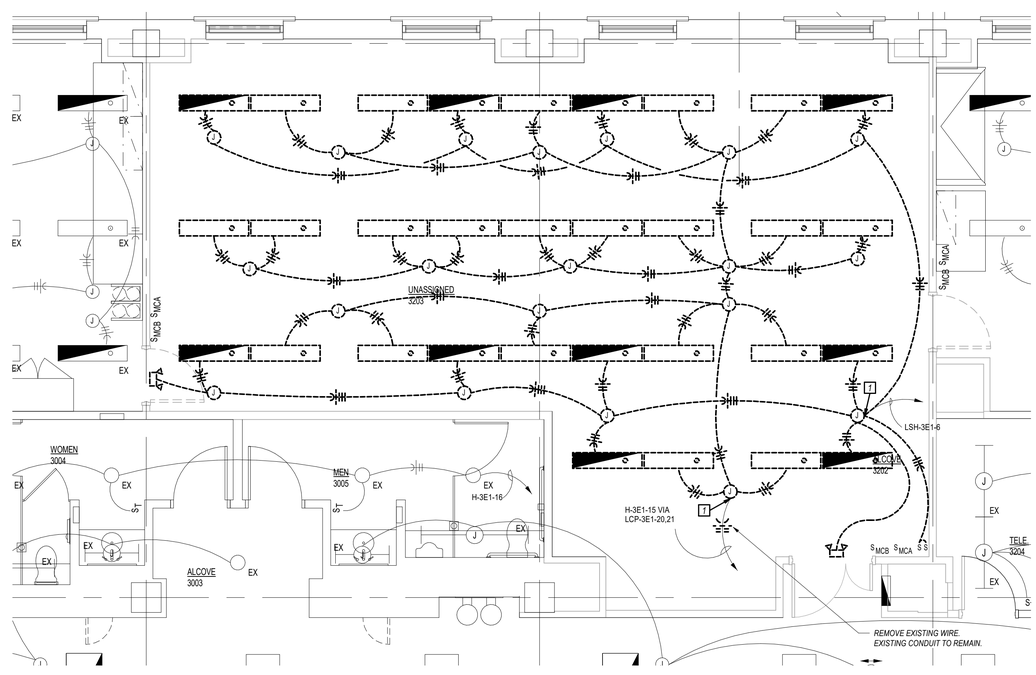
7/2/21



1 PARTIAL THIRD FLOOR LIGHTING DEMOLITION PLAN

ELD403 1/4" = 1'-0"

NORTH



2 PARTIAL THIRD FLOOR LIGHTING DEMOLITION PLAN

ELD403 1/4" = 1'-0"

NORTH

GENERAL NOTES

1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.

KEYED NOTES 0

1 INTERCEPT EXISTING CONDUIT FOR REUSE IN NEW LAB CONSTRUCTION. MODIFY, ADAPT, EXTEND EXISTING CONDUIT AS REQUIRED FOR CONNECTION TO NEW WORK UNLESS OTHERWISE NOTED ON NEW WORK PLANS. REMOVE EXISTING WIRE. NEW WIRE SHALL BE INSTALLED IN EXISTING CONDUIT WHERE SHOWN ON NEW WORK PLAN.

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DESIGNED BY: IMEG

SHEET TITLE:

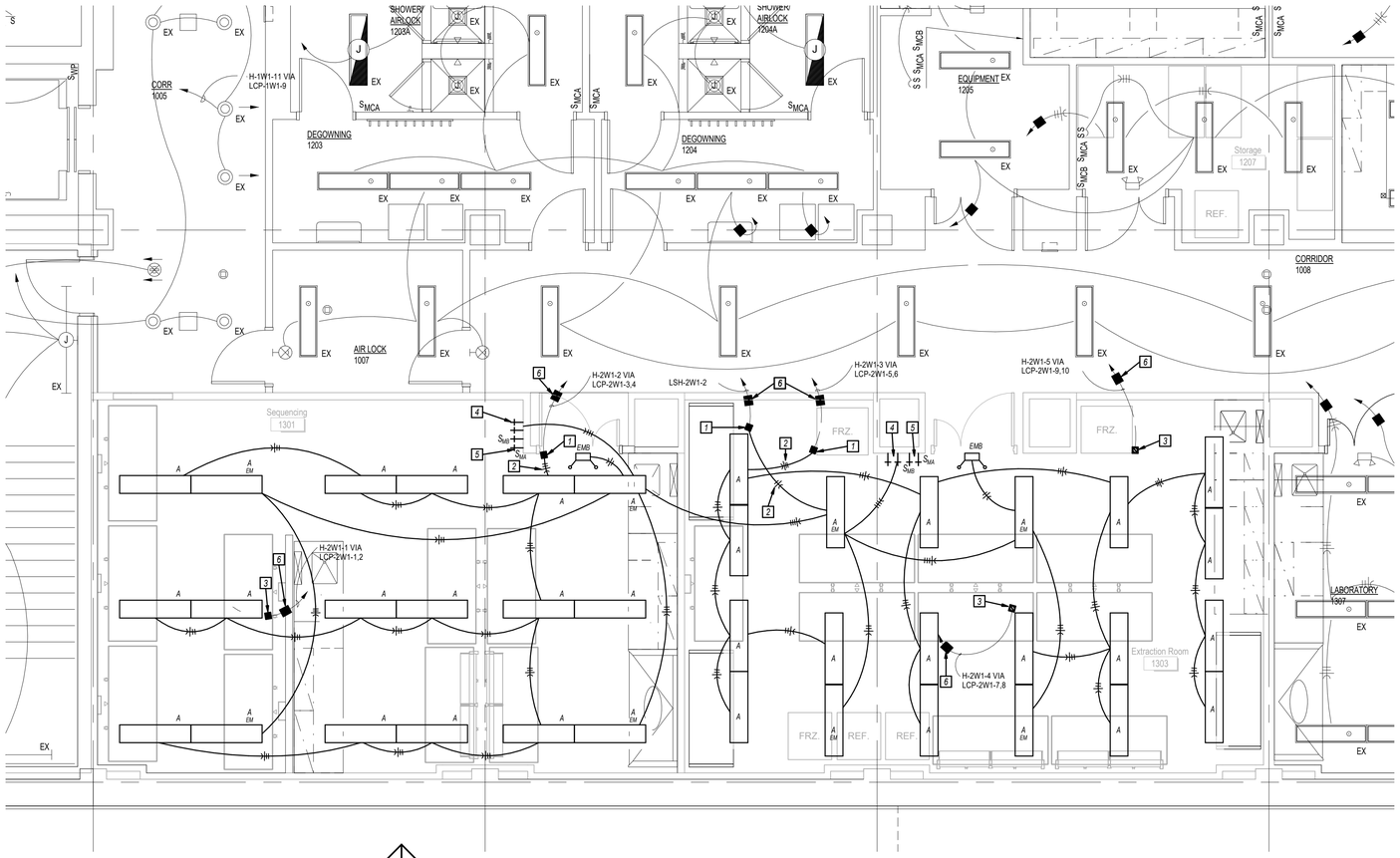
ENLARGED THIRD FLOOR LIGHTING DEMOLITION PLANS

SHEET NUMBER:

ELD403

SHEET 041 OF 046

7/2/21



1 FIRST FLOOR LIGHTING PLAN

EL401 1/4" = 1'-0"

NORTH

GENERAL NOTES

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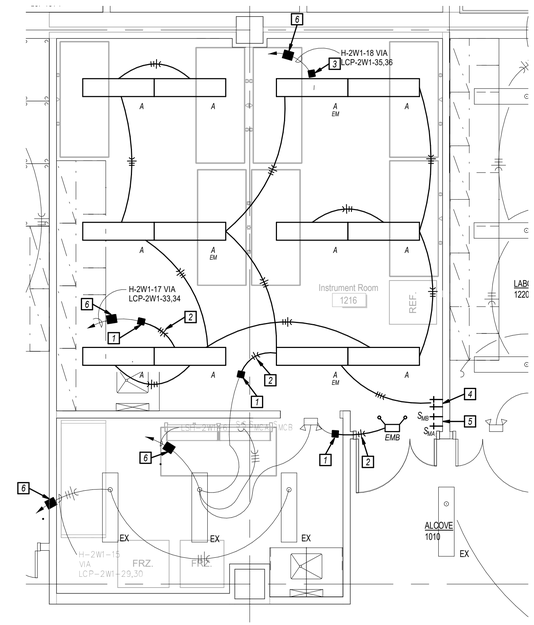
KEYED NOTES 0

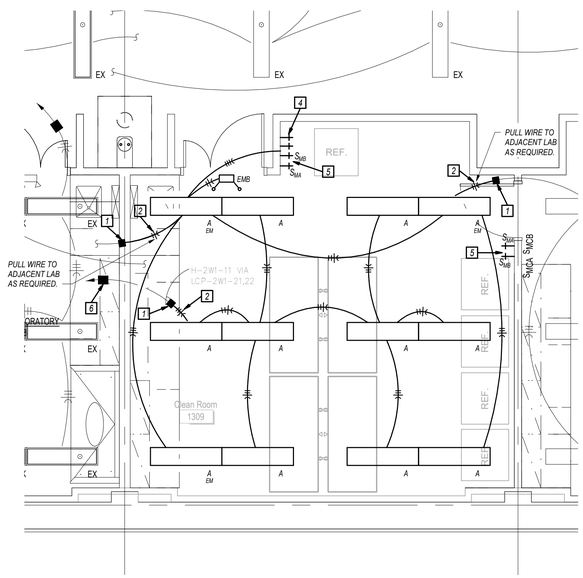
1 INTERCEPT EXISTING CONDUIT FOR REUSE IN NEW LAB CONSTRUCTION.
2 NEW WIRING IN EXISTING CONDUIT.
3 CAP CONDUIT IN CEILING SPACE. LABEL CONDUIT AT PANEL AS SPARE AND INDICATE LAB WHERE CONDUIT TERMINATES.
4 NEW RED SWITCHES. DOUBLE SWITCH EMERGENCY LIGHT FIXTURES.
5 FOUR (4) LOW VOLTAGE MOMENTARY CONTACT GRAY SWITCHES WITH STAINLESS FACEPLATE TO MATCH EXISTING SWITCHES IN LAB. EXISTING SYSTEM IS MANUFACTURERED BY WATTSTOPPER. FURNISH AND INSTALL NEW WIRE TO LIGHTING CONTROL PANEL IN EXISTING CONDUIT. NEW LIGHT FIXTURES NOT CONNECTED TO EMERGENCY POWER SHALL BE DOUBLE SWITCHED. WIRING FOR SWITCHES SHALL BE AS RECOMMENDED BY MANUFACTURER. LIGHTING CONTROL PANEL IS LOCATED ON 2ND FLOOR.
6 EXISTING CONDUIT SEAL OFF FITTING. FIELD VERIFY LOCATION.



2 FIRST FLOOR LIGHTING PLAN

EL401 1/4" = 1'-0"

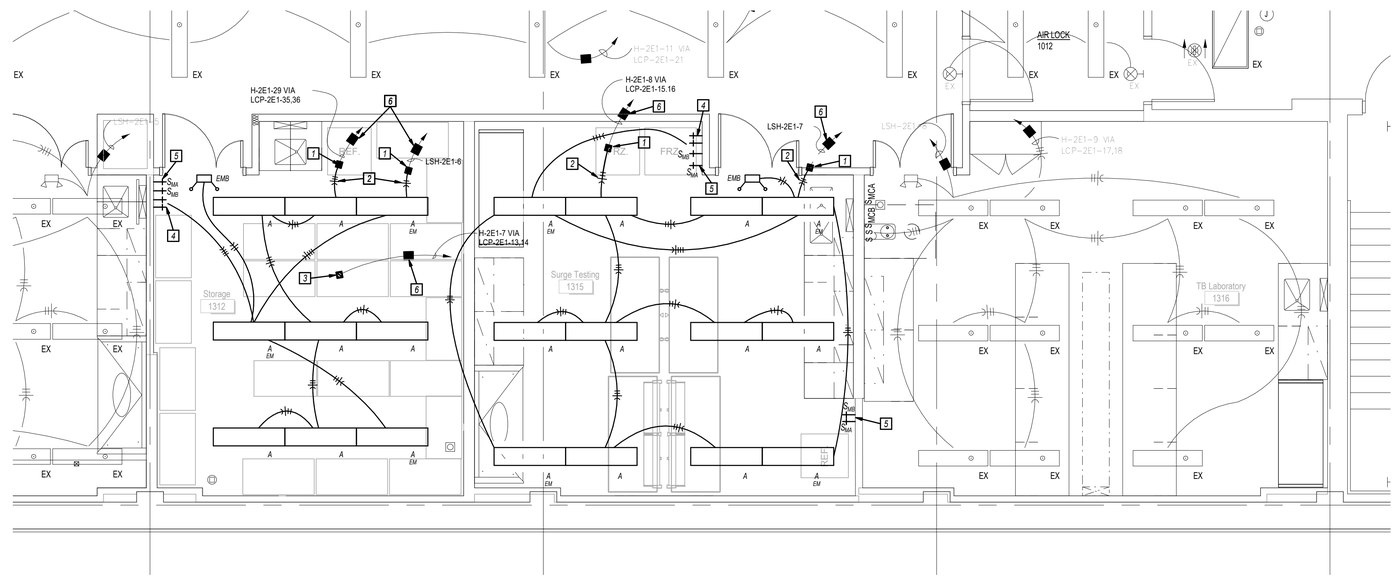
NORTH



3 FIRST FLOOR LIGHTING PLAN

EL401 1/4" = 1'-0"

NORTH

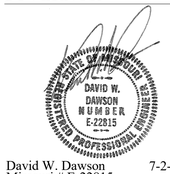


4 FIRST FLOOR LIGHTING PLAN

EL401 1/4" = 1'-0"

NORTH

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR



David W. Dawson 7-2-21
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FACILITY # 3101017078

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CAD DWG FILE: EL401
DRAWN BY: BWC
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:

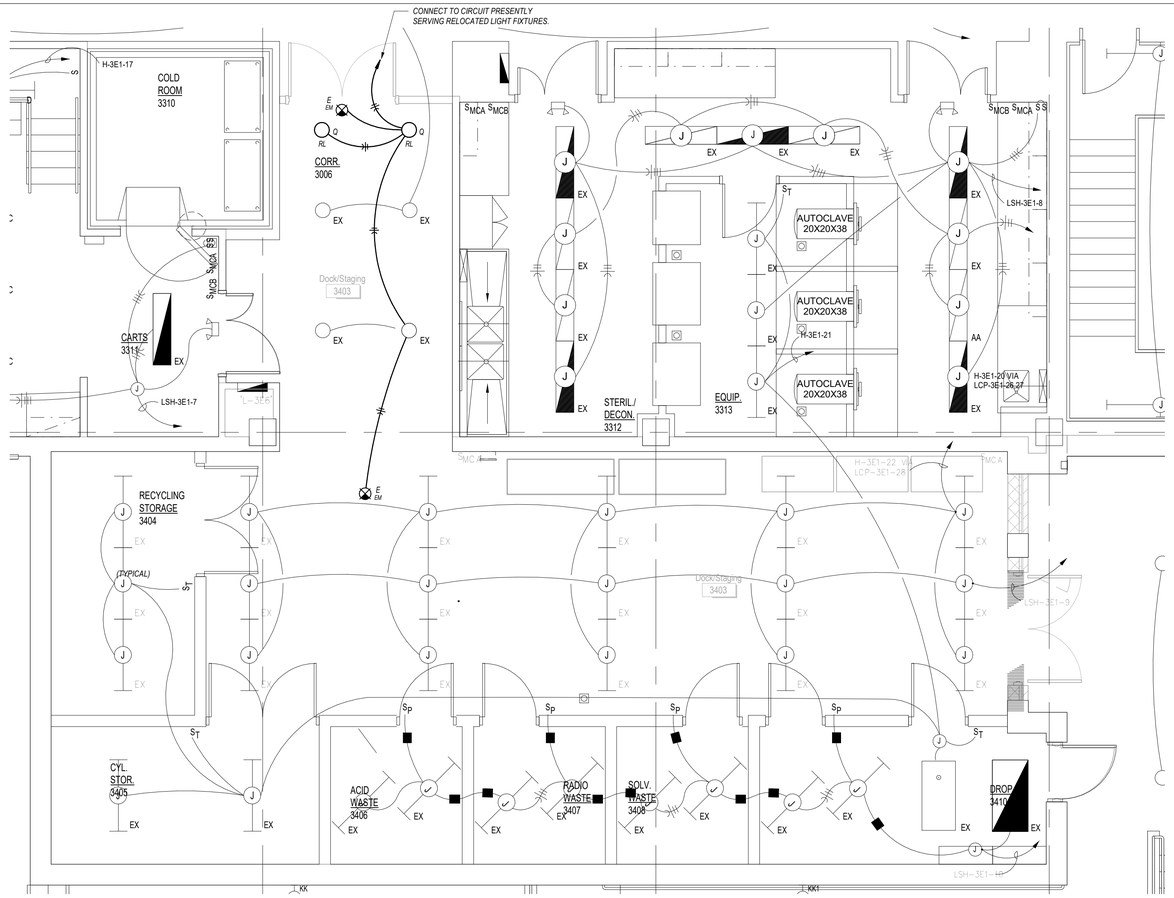
ENLARGED FIRST FLOOR LIGHTING PLANS

SHEET NUMBER:

EL401

SHEET 042 OF 046

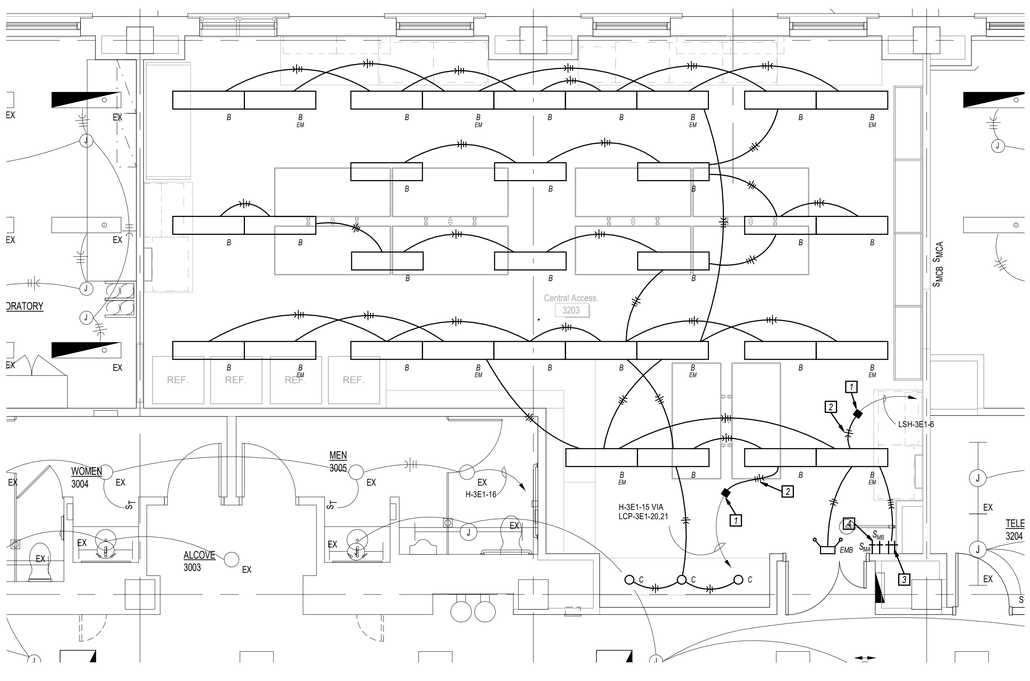
7/2/21



1 THIRD FLOOR LIGHTING PLAN

EL403 1/4" = 1'-0"

NORTH



2 PARTIAL THIRD FLOOR LIGHTING PLAN

EL403 1/4" = 1'-0"

NORTH

GENERAL NOTES

1 REFER TO SHEET E000 FOR GENERAL NOTES. NOT ALL GENERAL NOTES MAY APPLY TO THIS SHEET.

KEYED NOTES 0

1 INTERCEPT EXISTING CONDUIT FOR REUSE IN NEW LAB CONSTRUCTION.
2 NEW WIRING IN EXISTING CONDUIT.
3 NEW RED SWITCHES. DOUBLE SWITCH EMERGENCY LIGHT FIXTURES.
4 FOUR (4) LOW VOLTAGE MOMENTARY CONTACT GRAY SWITCHES WITH STAINLESS FACEPLATE TO MATCH EXISTING SWITCHES IN LAB. EXISTING SYSTEM IS MANUFACTURERED BY WATTSTOPPER. FURNISH AND INSTALL NEW WIRE TO LIGHTING CONTROL PANEL IN EXISTING CONDUIT. NEW LIGHT FIXTURES NOT CONNECTED TO EMERGENCY POWER SHALL BE DOUBLE SWITCHED. WIRING FOR SWITCHES SHALL BE AS RECOMMENDED BY MANUFACTURER. LIGHTING CONTROL PANEL IS LOCATED ON 2ND FLOOR.

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GOVERNOR

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DRAWN BY: BWC
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:

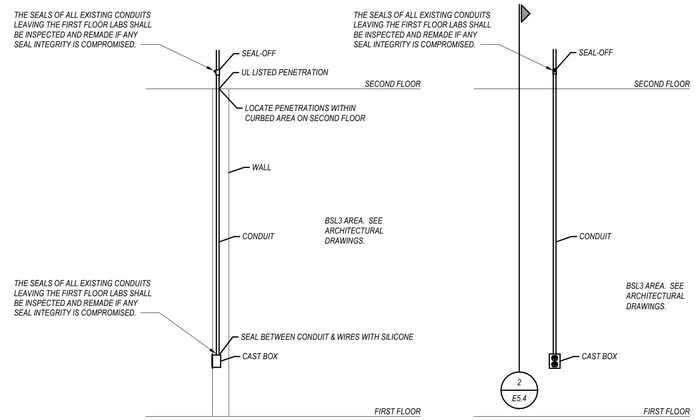
ENLARGED THRID FLOOR LIGHTING PLANS

SHEET NUMBER:

EL403

SHEET 043 OF 046

7/2/21



NOTE: -ALL NEW CONDUIT INSTALLED ON FIRST FLOOR THAT PENETRATES TO SECOND FLOOR SHALL COMPLY WITH THE ABOVE DETAIL.

-ALL NEW DATA CONDUIT INSTALLED ON SECOND FLOOR SHALL BE ROUTED APPROXIMATELY 11' ABOVE SECOND FLOOR TO EXISTING CABLE TRAY.

SECTION 2

SCALE: NTS

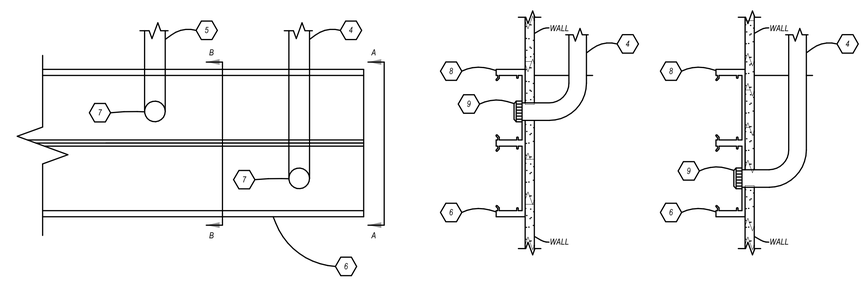
2	PENETRATION DETAIL
E500	N.T.S.

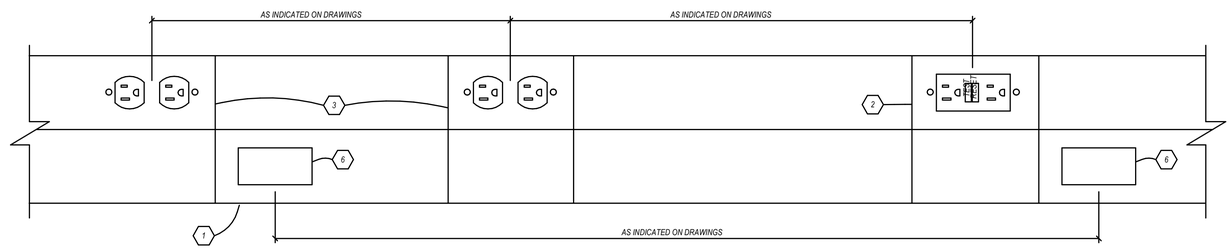
WIREMOLD DETAIL NOTES:

1. WIREMOLD ALA4800 SERIES TWO PIECE, SURFACE METAL RACEWAY SYSTEM WALL MOUNTED AT LOCATION INDICATED ON DRAWINGS. PROVIDE RACEWAY SYSTEM COMPLETE WITH ALA4800B BASE, ALAC COVERS AND ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION. FIELD CUT RACEWAY SYSTEM AS REQUIRED.
2. AT EACH GFCI LOCATION INDICATED ON THE POWER AND AUXILIARY SYSTEMS PLANS, PROVIDE ONE (1) ALA-G COVER WITH ONE (1)-20A, 125V, 2P, 3W, GFCI DUPLEX RECEPTACLES IN THE POWER SECTION OF THE RACEWAY.
3. AT EACH LOCATION INDICATED ON THE POWER AND AUXILIARY SYSTEMS PLANS, PROVIDE ONE (1) ALA-DR COVER WITH ONE (1)-20A, 125V, 2P, 3W, DUPLEX RECEPTACLES IN THE POWER SECTION OF THE RACEWAY.
4. ROUTE A 1" CONDUIT FOR OWNER FURNISHED TELECOMMUNICATIONS CABLING FROM EACH END OF RACEWAY TO THE CABLE TRAY ABOVE THE NEAREST ACCESSIBLE CORRIDOR CEILING. SEE THE POWER AND AUXILIARY SYSTEMS PLANS FOR ADDITIONAL INFORMATION. BUSH CONDUIT ENDS.
5. CONDUIT FOR POWER WIRING TO THE APPROPRIATE PANEL AS INDICATED ON THE POWER AND AUXILIARY SYSTEMS PLANS. SEE THE POWER AND AUXILIARY SYSTEMS PLAN FOR ADDITIONAL INFORMATION.
6. PROVIDE ALA-MAB SINGLE DEVICE FITTING FOR OWNER FURNISHED TELECOMMUNICATIONS OUTLETS.
7. BUSH OPENINGS IN SURFACE METAL RACEWAY.
8. APPLY SILICONE TYPE CAULK TO SEAL SURFACE METAL RACEWAY TO WALL.
9. FOR BSL3 AREAS, SEAL BETWEEN CONDUIT & WIRING AND CONDUIT & WALL WITH SILICONE TYPE CAULK.

WIREMOLD DETAIL GENERAL NOTES:

1. WIREMOLD RACEWAY IS SPECIFIED. OTHER MANUFACTURERS ARE ACCEPTABLE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER.
2. LABEL EACH DEVICE IN RACEWAY WITH PANEL AND CIRCUIT DESIGNATION.





1	WIREMOLD DETAIL
E500	N.T.S.

STATE OF MISSOURI
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STATE OF MISSOURI
DAVID W. DAWSON
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REGISTERED PROFESSIONAL ENGINEER

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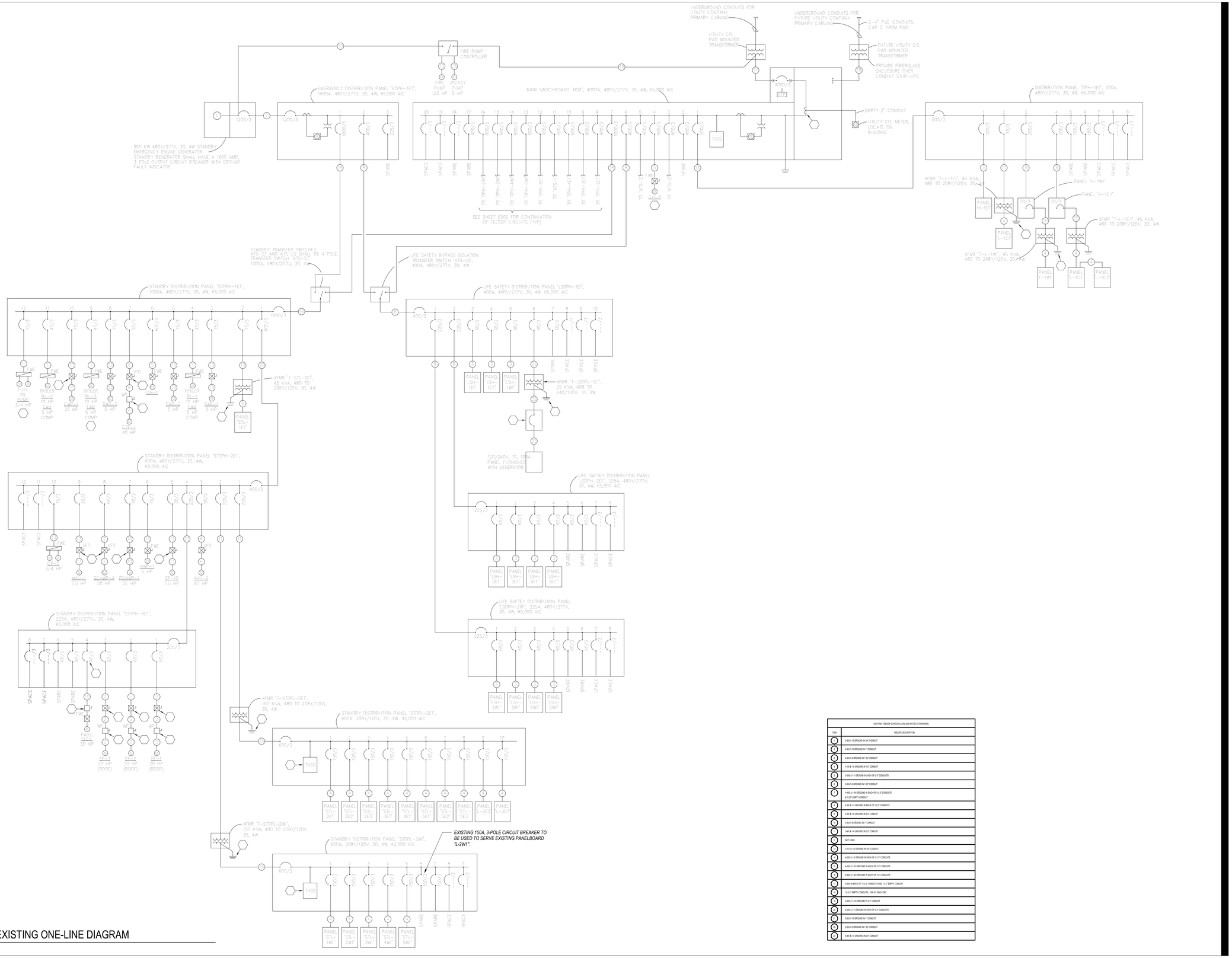
CAD DWG FILE: E500
DRAWN BY: BWC
CHECKED BY: PIP
DESIGNED BY: IMEG

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E500

SHEET 044 OF 046

7/2/21



EXISTING FEEDER SCHEDULE (UNLESS NOTED OTHERWISE)	
ITEM	FEEDER DESCRIPTION
1	3-#4 & 1-#3 GROUND IN 3/4" CONDUIT
2	3-#4 & 1-#3 GROUND IN 1" CONDUIT
3	4-2 & 1-#6 GROUND IN 1 1/2" CONDUIT
4	4-1/0 & 1-#2 GROUND IN 1 1/2" CONDUIT
5	4-1/0 & 1-#2 GROUND IN 1 1/2" CONDUIT
6	2-350 & 1-1 GROUND IN EACH OF 2-3" CONDUITS
7	3-2 & 1-#4 GROUND IN 1 1/2" CONDUIT
8	4-#3/0 & 1-#3 GROUND IN EACH OF 3-3-1/2" CONDUITS & 1-3-1/2" EMPTY CONDUIT
9	4-3/0 & 1-3 GROUND IN EACH OF 2-2-1/2" CONDUITS
10	4-3/0 & 1-6 GROUND IN 2-1/2" CONDUIT
11	3-4 & 1-#8 GROUND IN 1" CONDUIT
12	3-#3 & 1-#8 GROUND IN 2-1/2" CONDUIT
13	NOT USED
14	3-1/0 & 1-1/0 GROUND IN 3/4" CONDUIT
15	4-250 & 1-2 GROUND IN EACH OF 2-2-1/2" CONDUITS
16	4-250 & 1-1/0 GROUND IN EACH OF 2-2-1/2" CONDUITS
17	4-#3 & 1-2/0 GROUND IN EACH OF 2-2" CONDUITS
18	4-#3/0 IN EACH OF 11-2-1/2" CONDUITS AND 1-2-1/2" EMPTY CONDUIT
19	12-2-1/2" EMPTY CONDUITS. CAP AT EACH END
20	3-250 & 1-1/0 GROUND IN 2-1/2" CONDUIT
21	4-350 & 1-1 GROUND IN EACH OF 2-2-1/2" CONDUITS
22	2-4 & 1-#3 GROUND IN 1" CONDUIT
23	3-2 & 1-#4 GROUND IN 1 1/2" CONDUIT
24	4-#3 & 1-4 GROUND IN 2-1/2" CONDUIT

1 PARTIAL EXISTING ONE-LINE DIAGRAM

Not to Scale

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CAD DWG FILE: Approver
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: IMEG

SHEET TITLE:

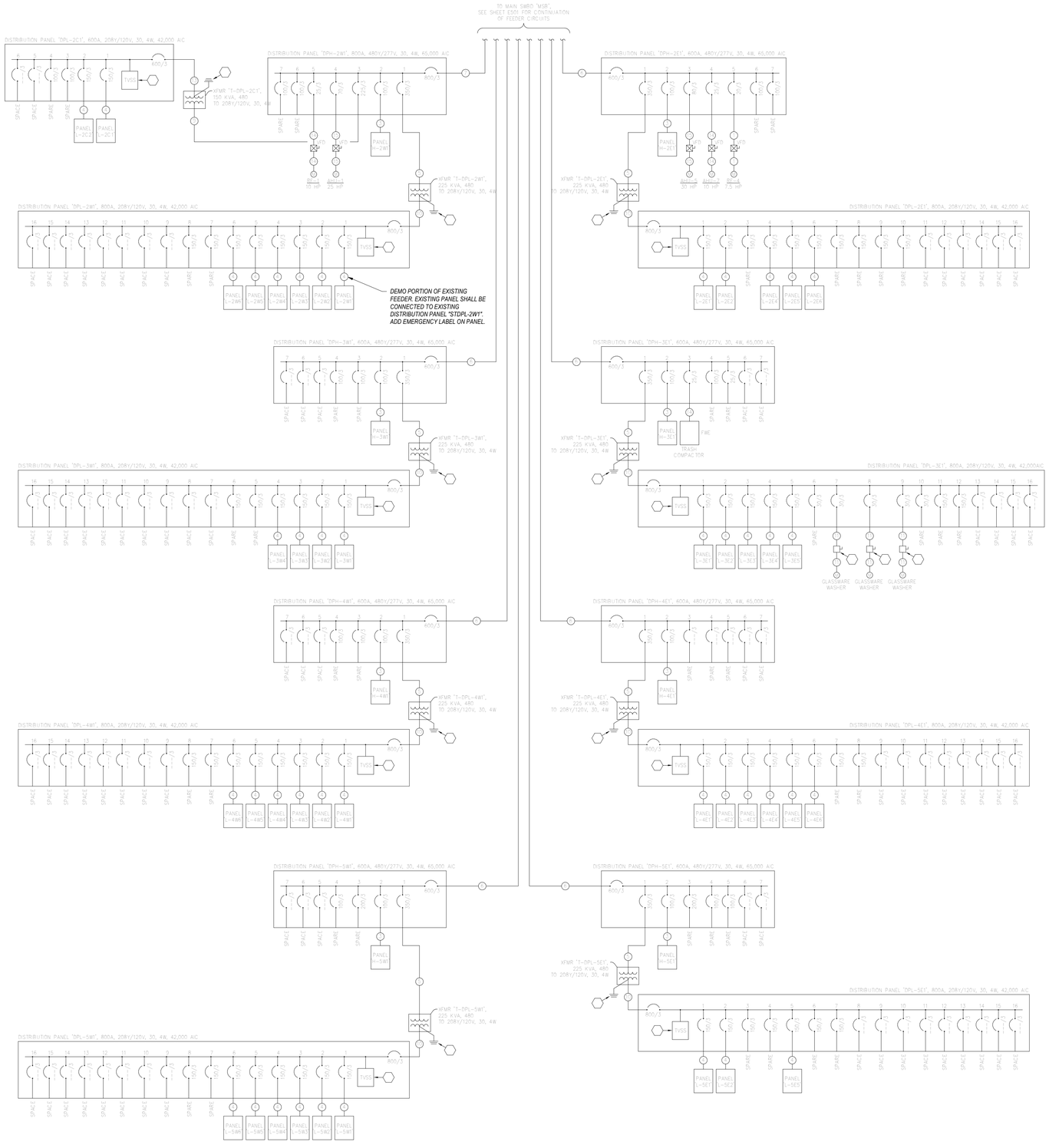
PARTIAL EXISTING
ONE-LINE DIAGRAM

SHEET NUMBER:

E501

SHEET 045 OF 046

7/2/21



EXISTING FEEDER SCHEDULE (UNLESS NOTED OTHERWISE)	
ITEM	FEEDER DESCRIPTION
1	3-1/2 & 1-1/2 GROUND IN 3/4" CONDUIT
2	3-8 & 1-10 GROUND IN 3/4" CONDUIT
3	4-2 & 1-8 GROUND IN 1 25" CONDUIT
4	4-1/0 & 1-6 GROUND IN 1 5" CONDUIT
5	3-500 & 1-3 GROUND IN 2" CONDUIT
6	4-350 & 1-1 GROUND IN EACH OF 2-3" CONDUITS
7	4-350 & 1-1/0 GROUND IN EACH OF 3-3" CONDUITS
8	NOT USED
9	3-4/0 & 1-4 GROUND IN 2 5" CONDUIT
10	4-350 & 1-2/0 GROUND IN EACH OF 3-3" CONDUITS
11	4-1/0 & 1-1/0 GROUND IN 3/4" CONDUIT
12	NOT USED
13	4-350 & 1-1/0 GROUND IN EACH OF 2-3" CONDUITS
14	3-1/0 & 1-1/0 GROUND IN 3/4" CONDUIT
15	3-4 & 1-6 GROUND IN 1" CONDUIT

1 PARTIAL EXISTING ONE-LINE DIAGRAM

Not to Scale

STATE OF MISSOURI
MIKE PARSON,
GOVERNOR

DAVID W. DAWSON NUMBER E-22815 PROFESSIONAL ENGINEER STATE OF MISSOURI

David W. Dawson 7-2-21
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

Project Name:
State Public Health
Laboratory Renovation

101 N. Chestnut Street
Jefferson City, MO

PROJECT # O2115-01
SITE # 1017
FACILITY # 3101017078

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2 July 2021

CAD DWG FILE: Approver
DRAWN BY: Author
CHECKED BY: Checker
DESIGNED BY: IMEG

SHEET TITLE:

PARTIAL EXISTING ONE-LINE DIAGRAM

SHEET NUMBER:

E502

SHEET 046 OF 046

7/2/21