

Addendum #01 for RFQ #0919335008

Project Name: State Hygienic Laboratory-Ankeny Fume Hood Install and Replacement

DAS RFQ #: 0919335008

DAS Project #: 9031.00

Date: 08/24/2018

Addendum #1:

- Cover Page – Table of Contents, Clarifications, Questions, Specifications and Drawings (2 pages)
- Exhibit A: Pre-proposal meeting agenda with notes (in red). (2 pages)
- Exhibit B: Pre-proposal meeting sign-in sheet (1 page)
- Exhibit C: Updated drawings G001, A1.11, M101, P101, P200, E100, E101 (7 pages)

Clarifications:

1. Due date for final questions has been moved to **Monday, August 27, 2018 at 2:00 PM.**
2. Due date for quotes remains on **Thursday, August 30, 2018 at 2:00 PM.**
3. Dust control is a priority. All periodic and final cleaning shall utilize HEPA filtered vacuums.

Questions:

1. Q: Can quotes be emailed?
A: Yes, as long as they are under \$135,000.
2. Q: Will there be multiple bid packages?
A: No, just one bid package will be awarded. The fume hoods will be owner-supplied under a separate contract and delivery/installation work will be coordinated. See revised drawings for more information.

Specifications:

1. Section 11 53 13 - Laboratory Fume Hoods
 - a. **CLARIFICATION:** Fume Hoods are Owner provided and installed by Others. Section to be considered for reference only.
2. Section 23 31 00 - Ductwork
 - a. **ADD** to Article 2.7, paragraph G, "Monoxivent" as an Acceptable Manufacturer.

Drawings:

1. G001 – Project Phasing Plan
 - a. **REVISE** notes addressing the installation of the fume hoods. Refer to attached drawing G001 for more information.
2. A1.11 – Proposed and Demo Drawings
 - a. **REVISE** the notes and details in its entirety. Refer to attached drawing A1.11 for more information.
3. M101 – Level 01 - Ventilation
 - a. **REVISE** keynotes 5 and 6. Refer to attached drawing M101 for more information.
4. P101 – Level 01 - Plumbing

- a. **REMOVE** nitrogen pressure regulator from detail 1. Refer to attached drawing P101 for more information.
 - b. **ADD** keynote 4. Refer to attached drawing P101 for more information.
- 5. P200 – Plumbing Details
 - a. **REVISE** details 1 and 2. Refer to attached drawing P200 for more information.
- 6. E100 – Level 01 – Electrical Demolition
 - a. **REVISE** keynote #1 to read “DISCONNECT POWER TO HOOD FOR REMOVAL BY OTHERS. CONDUIT AND WIRE SHALL REMAIN FOR REUSE. REFER TO E101 FOR MORE INFORMATION”. Refer to attached drawing E100 for more information.
 - b. **ADD** demolition of one (1) telecommunication box in wireway above counter being removed. All cabling shall be removed back to source. Refer to attached drawing E100 for more information.
- 7. E101 – Level 01 – Electrical
 - a. **ADD** detail 2 to clarify hood feeder/conduit installation. Refer to attached drawing E101 for more information.

END OF ADDENDUM #1

August 22, 2018 at 1:00 PM

Owner/DAS/CM Team Introductions:

Iowa Department of Administrative Services (DAS) – Jennifer Kleene
State Hygienics Laboratory
Construction Manager – DCI Group – Michael Steen
Designer – IMEG Corp.
DAS Purchasing Agent – Steve Oberbroeckling

General Project Description/Overview:

Install new and replace existing exhaust fume hoods at the State Hygienics Laboratory in Ankeny, Iowa.

Bid Package Process:

Overview of Instructions to Bidders – DCI Group

Bid Packages:

- 1) BP #1 – Exhaust Fume Hood Replacement and Addition

BIDS DUE: August 30, 2018 at 2:00 PM

MAKE SURE IT IS SUBMITTED TO DAS AS THE REQUEST FOR PROPOSALS READS

1. Proposal Process

- a. All questions after this meeting and prior to August 24, 2018, to be submitted to Steve Oberbroeckling at steve.oberbroeckling@iowa.gov. Do not contact DAS, IMEG Corp. or DCI Group directly for questions or clarifications.

2. Schedule

- a. Questions due **August 24, 2018** by 2:00 PM CST
- b. An addendum will be issued to incorporate minutes and sign-in sheet from this Pre-Proposal Meeting.
- c. Final addendum will be issued no later than **August 28, 2018** by 2:00 PM CST or no later than 48 hours prior to proposals being due.
- d. Bids due **August 30, 2018** by 2:00 PM CST - total cost of project anticipated to be under **\$135,000, thus bids can be emailed per the documents.**
- e. Tentatively an NOI will be issued by August 31, 2018
- f. Anticipated construction work to take place September 24, 2018 thru December 28, 2018.
 - i. A scheduling meeting (Pull Plan Schedule) will be held shortly after execution of contracts to further develop the construction schedule. All prime contractors, subcontractors, and key suppliers shall attend.
 - ii. One week prior to this meeting, contractors shall provide a preliminary schedule of their activities with locations and activities of their subcontractors with durations and sequencing.

Scope of Work Overview:

1. Administrative

- a. This RFB will result in one successful proposal per bid package.
- b. Agreement between the Owner and Contractor will be a modified ConsensusDocs 802
- c. EADOC – State of Iowa project management software
 - i. No cost to the contractor
- d. Pre-construction meetings and submittals.
 - i. Prime contractors shall submit a submittal schedule within five business days of receipt of Owner/Prime Contractor Agreement. See section 01 1200.16 for

requirements. A template with A/E identified submittals will be provided to contractors.

2. Construction

- a. Fume Hoods will be provided and installed by Owner. Contractor will be responsible for all other work, including but not limited to, duct work, piping and electrical connections, and casework demolition. – Contractor is also responsible for all equipment disconnects in preparation for removal by others.
 - i. Fume Hoods will be provided by Wynn O. Jones & Associates, Inc. per their master agreement with the State of Iowa.
 1. WOJA scope will consist of demolition of existing fume hood, shroud and fume hood base. WOJA will install (2) new fume hoods with new base cabinets in coordination with the project schedule.
- b. Work hours will be 8:00 AM to 5:00 PM Monday-Friday. Any work that requires disruption of systems will be required to be performed between 5:00 PM and 9:00 PM.
- c. All areas shall be cleaned and put back to existing conditions prior to substantial completion.
 - i. Work will be performed in two stages so that an operational fume hood is accessible at all times in the lab. – Contractor will be responsible for testing and balancing of fume hood prior to turnover to Owner.
 - ii. Contractor shall ensure construction debris is fully contained within temporary enclosures. Use of air scrubbers and HEPA filtered vacs will be required.
- d. Staging and storage of materials will need to be coordinated with DCI Group/DAS
 - i. Contractor will have select use of courtyard area to store material. – Access to courtyard will be via existing temporary gravel drive.
- e. Contractor shall maintain accurate as-built construction records throughout the project.
- f. Daily logs/Weekly Report/Safety Meetings and meeting requirements.
- g. Onsite supervision by Prime Contractor is required at all times when work by that contractor or their subcontractors/suppliers is taking place.
- h. Other work and events will be taking place on the Iowa Labs grounds. All contractors shall coordinate with the CM and the other projects to avoid interfering with schedule or the work being put into place.

3. Close out

- a. Provide complete, clean, and legible copies of the as-built construction records to DCI Group upon completion of work. Electronic and hard copies of all O&M's and as-built drawings to be submitted. Refer to spec. section 01 7700 – Closeout Procedures for more details.

State Rules

1. All personnel who will work on-site will be required to perform background checks.
2. It is of the utmost importance to show respect and courtesy to all staff at all times.
3. Clean all debris, materials, and bring all finishes back to existing conditions in the area they were working in prior to moving to the next area.
4. No smoking or smokeless tobacco use onsite.

Open Discussion

1. Contractor will have use of facilities restrooms.
2. Contractor will be granted temporary facility access from courtyard to project location.
3. Walkoff mat at door to courtyard will be provided and maintained by the Owner.
4. Casework to be removed by Contractor at location of new fume hood. All casework, countertops and backsplash to be salvaged and turned over to Owner.
5. Existing pipe chase behind casework at new fume hood location is to be removed. Contractor is responsible to patch wall behind chase and finish to match existing wall.
6. No new shrouds will be installed above fume hoods. Contractor is responsible to patch ACT to match existing ceiling

Project Name: 9031.00 SHL ANK Fume Hood Install and Replacement

Meeting Purpose: Pre-Bid Meeting

Date: August 22nd, 2018 at 1:00 PM

Attendees

<u>Name</u>	<u>Company</u>	<u>Phone Number</u>	<u>E-Mail Address</u>
Rick Wald	Proctor Mech	515-681-0568	rwald@proctor-mech.com
Tyler Gustason	Waldinger	515-323-8742	tyler.gustason@waldinger.com
Tom Gargas	Bergstrom Const	202-6656	gargas.tom@gmail.com
Jennifer Kleene	DAS	515-725-0454	Jennifer.kleene@iowa.gov
Shawn Brice	State Hygienic Lab	515-725-1632	Shawn-brice@iowa.edu
Don Simmons	State Hygienic Lab	515-725-1600	donald-simmons@iowa.edu
Nate Jacques	IMEC Corp	(515) 334-4303	nathaniel.k.jacques@imegcorp.com
ROBERT MORRIS	AIRCON MECHANICAL	515-243-5500	RMORRIS@AIRCONMECHANICAL.COM
GARRETT ARENBRIGHT	DCI GROUP	641-757-9791	GARRETTA@DCIGROUP-US.COM
DAVID HOKEL	DCI GROUP		DAVIDH@DCIGROUP-US.COM
MICHAEL STEEN	DCI GROUP		MICHAELS@DCIGROUP-US.COM

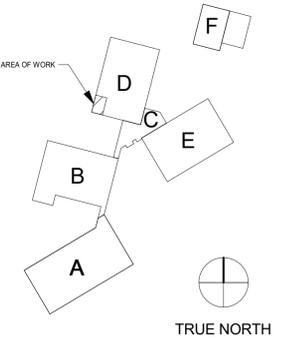
SHL ANK Fume Hood Install and Replacement

2220 S. Ankeny Blvd
 Ankeny, Iowa 50023
 IDAS PROJECT # 9031.00

CONSULTANT

INVISION
 PLANNING | ARCHITECTURE | INTERIORS

KEY PLAN



AGENCY APPROVAL

DISCLAIMER

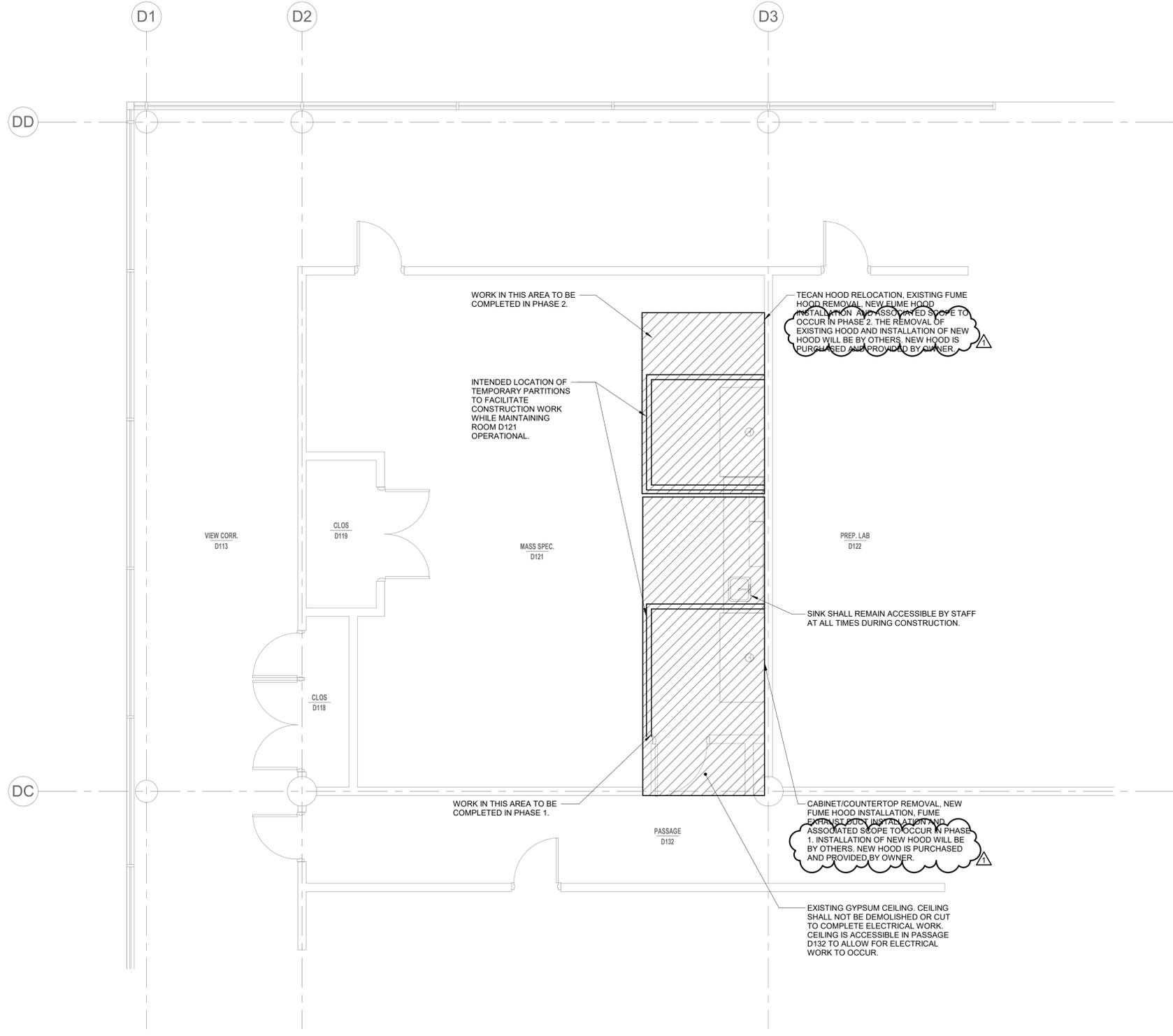
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REVISIONS

No.	Date	Revision / Issue
1	08/23/2018	ADDENDUM #1

- GENERAL SHEET NOTES :**
1. THIS PLAN IS PROVIDED TO INDICATE THE AREAS OF WORK ASSOCIATED WITH EACH PHASE OF THIS PROJECT.
 2. REFER TO ALL SHEETS IN THE DOCUMENT SET TO FULLY UNDERSTAND THE SCOPE OF WORK.
 3. GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY DUST PARTITIONS TO PREVENT CONSTRUCTION DUST FROM AFFECTING THE OCCUPIED LABORATORY.
 4. REFER TO DIVISION 00 AND 01 SPECIFICATIONS FOR REQUIREMENTS AND LIMITATIONS ON ACCESS TO SPACE.



1 PROJECT PHASING PLAN
 1/4" = 1'-0"

18002815.00 8/23/2018 9:46:26 AM SHL ANK Fume Hood Install and Replacement

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	AUGUST 9, 2018
Job Number	18002815.00
Drawn	PETERN
Checked	DAVING
Approved	NATJAC

SHEET TITLE
PROJECT PHASING PLAN

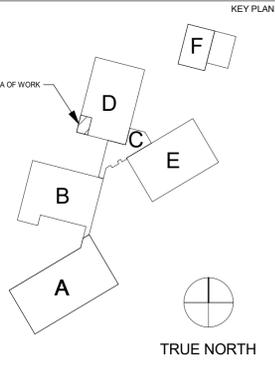
SCALE
 1/4" = 1'-0"

SHEET NUMBER
G001

ANKENY LABS FUME HOOD

2250 SOUTH ANKENY BLVD
ANKENY, IA 50023
DEPARTMENT OF ADMINISTRATIVE SERVICES

INVISION
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TRUE NORTH

GENERAL EXISTING FLOOR PLAN NOTES:

- HATCHED AREAS ARE SHOWN FOR REFERENCE ONLY AND ARE GENERALLY OUTSIDE OF PROJECT SCOPE.
- WALL INFILL AT EXISTING WALLS SHALL BE SIZED TO MATCH EXISTING WALLS FACE OF NEW FINISH TO BE FLUSH WITH EXISTING FINISHED FACE ON EACH SIDE OF WALL.
- SEE INTERIOR ELEVATIONS FOR FURTHER CLARIFICATION OF MATERIALS / LOCATIONS / FINISHES.
- PROVIDE FIRE TREATED BLOCKING IN WALLS AS REQUIRED FOR ALL WALL MOUNTED CASEWORK AND OTHER ACCESSORIES.
- SEE REFLECTED CEILING PLANS FOR LOCATIONS OF FULL HEIGHT WALLS.

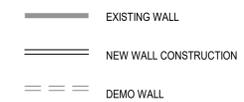
GENERAL FLOOR PLAN NOTES:

- REFER TO ADDITIONAL NOTES AND REQUIREMENTS ON ALL OTHER DOCUMENTS, OTHER DISCIPLINES AND SPECIFICATIONS.
- ALL SITE INFO, FIXTURES AND EQUIPMENT SHOWN ON THIS SHEET IS PROVIDED FOR COORDINATION PURPOSES ONLY. THE LAYOUT IS CONSIDERED CONCEPTUAL. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, LIFE-SAFETY, ETC. DOCUMENTS FOR SPECIFIC DESIGN INFORMATION.
- ALL CONDUITS, PIPES, SPRINKLER MAINS SHOULD BE HELD AS TIGHT AS POSSIBLE TO THE ROOF OR FLOOR DECK ABOVE. NOTHING SHALL BE BELOW THE BOTTOM EDGE OF THE STRUCTURE UNLESS PRIOR APPROVAL IS GRANTED BY THE ARCHITECT OR OWNER. ABSOLUTELY NO OBSTRUCTIONS SHALL PREVENT A FINISHED CEILING HEIGHT NOTED ON THE DRAWINGS IN THOSE AREAS RECEIVING CEILING TREATMENT. COORDINATION BETWEEN TRADES IS REQUIRED.
- ALL EXISTING TO REMAIN TO BE PROTECTED OR REPLACED AT NO COST TO OWNER.

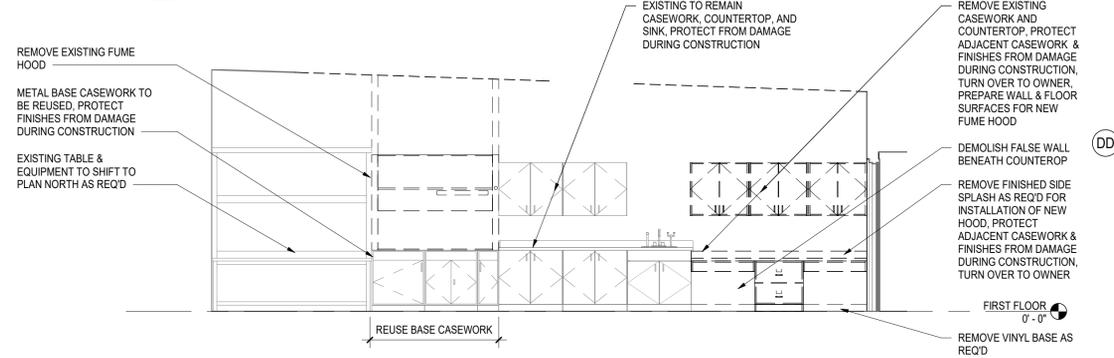
CEILING NOTES:

- HATCHED AREAS ARE SHOWN FOR REFERENCE ONLY AND ARE GENERALLY OUTSIDE OF PROJECT SCOPE.
- CEILING HEIGHTS ARE SHOWN ON THE REFLECTED CEILING PLAN.
- REFER TO ELECTRICAL DRAWINGS AND FIRE PROTECTION DRAWING FOR FIXTURE AND EQUIPMENT TYPE.
- REFER TO MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
- PLACE ALL CEILING MOUNTED EQUIPMENT IN THE CENTER OF THE CEILING TILE UNLESS OTHERWISE NOTED. COORDINATE ALL DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION.
- REFER TO FLOOR PLANS FOR WALL TYPES AND WALL LOCATIONS.
- SEE INTERIOR ELEVATIONS / SECTIONS / DETAILS FOR ADDITIONAL INFORMATION ON FINISHED SOFFIT, BULKHEAD, CEILING, ETC. WHERE NOT INDICATED ON REFLECTED CEILING PLAN.

WALL LEGEND:

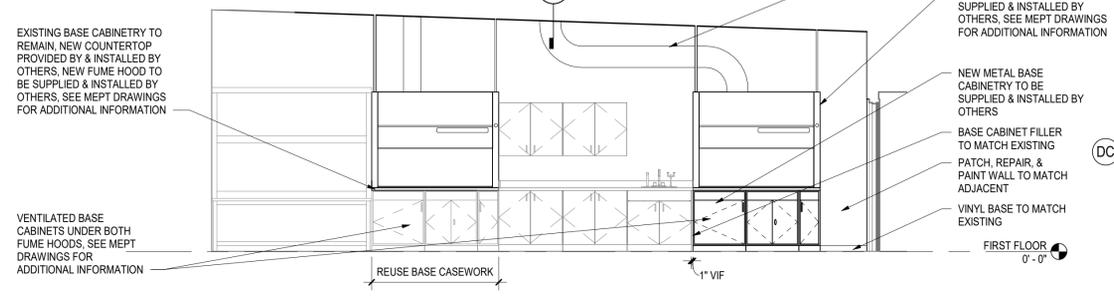


NOTE:
SEE MEPT DRAWINGS FOR ADDITIONAL DEMO WORK NOT SHOWN ON THIS ELEVATION

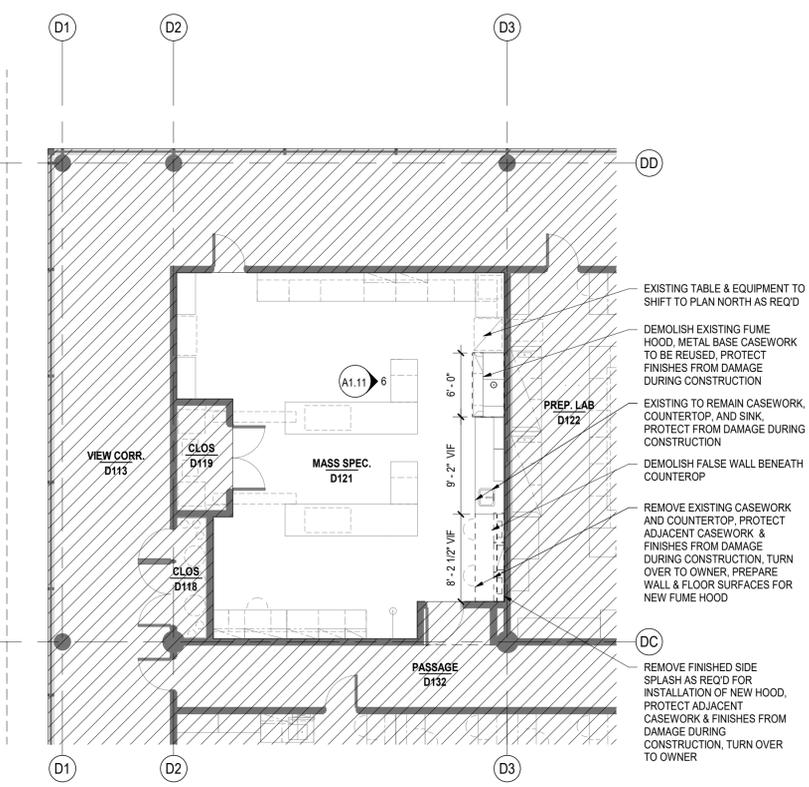


6 INTERIOR ELEVATION - DEMO
1/4" = 1'-0"

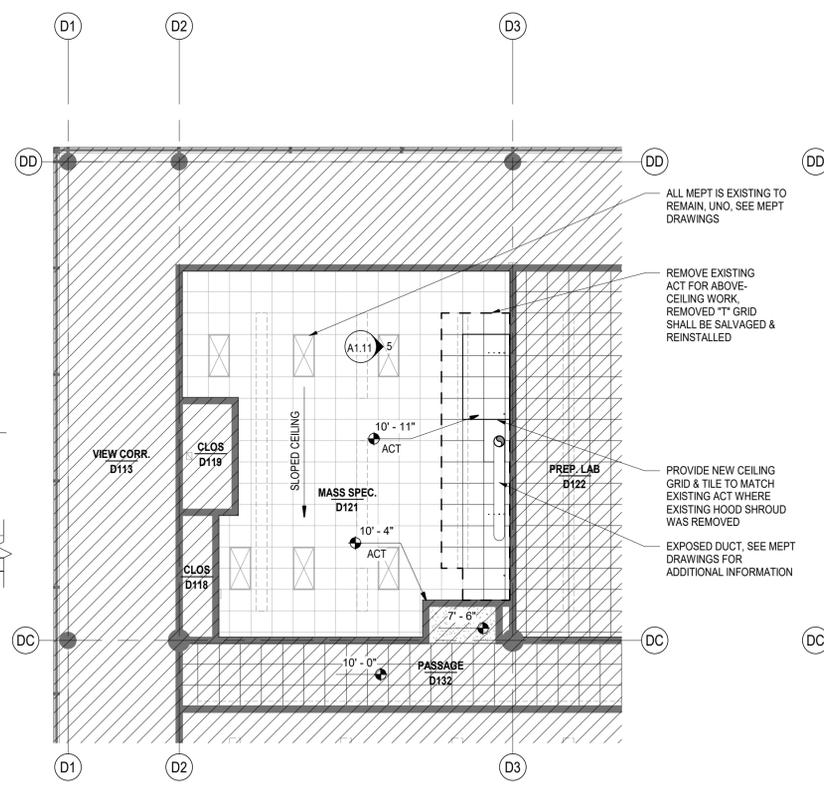
NOTE:
SEE MEPT DRAWINGS FOR ADDITIONAL DEMO WORK NOT SHOWN ON THIS ELEVATION



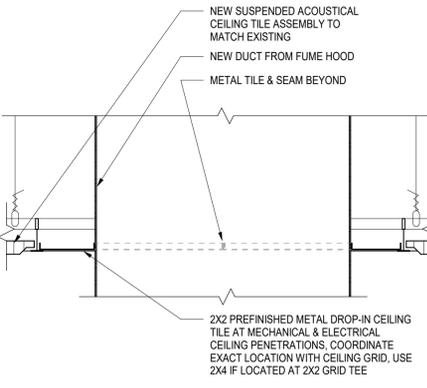
5 INTERIOR ELEVATION - PROPOSED
1/4" = 1'-0"



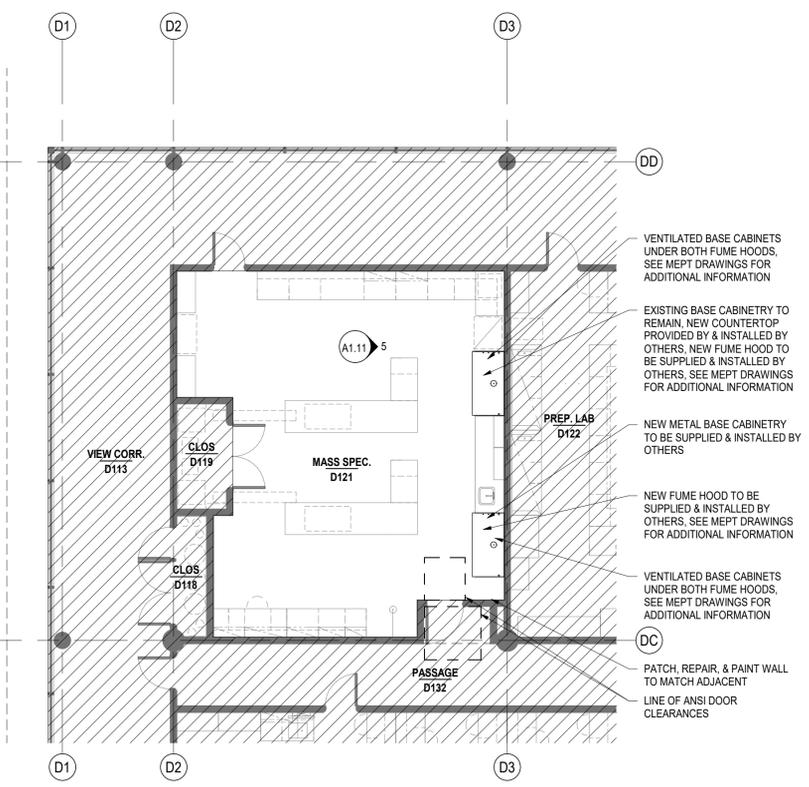
2 1ST FLOOR PLAN - DEMO
1/8" = 1'-0"



3 1ST REFLECTED CEILING PLAN
1/8" = 1'-0"



4 DUCT & CONDUIT SHROUD DETAIL
3" = 1'-0"



1 1ST FLOOR PLAN
1/8" = 1'-0"

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No.	Date	Revision / Issue
1	08/23/2018	ADDENDUM #1

SHEET INFORMATION	
Issue	BID DOCUMENTS
Date	AUGUST 9, 2018
Job Number	18002815.00
Drawn	NM
Checked	
Approved	

PROPOSED AND DEMO DRAWINGS

SCALE
As Indicated

SHEET NUMBER
A1.11

18002815.00 8/23/2018 9:47:30 AM ANKENY LABS FUME HOOD

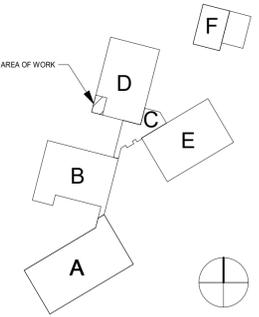
SHL ANK Fume Hood Install and Replacement

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Ankeny, Iowa 50023
IDAS PROJECT # 9031.00

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REVISIONS

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1	08/23/2018	ADDENDUM #1

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	AUGUST 9, 2018
Job Number	18002815.00
Drawn	PETERN
Checked	DAVING
Approved	NATJAC

LEVEL 01 - VENTILATION

SCALE

Scale: **1/4" = 1'-0"**

SHEET NUMBER

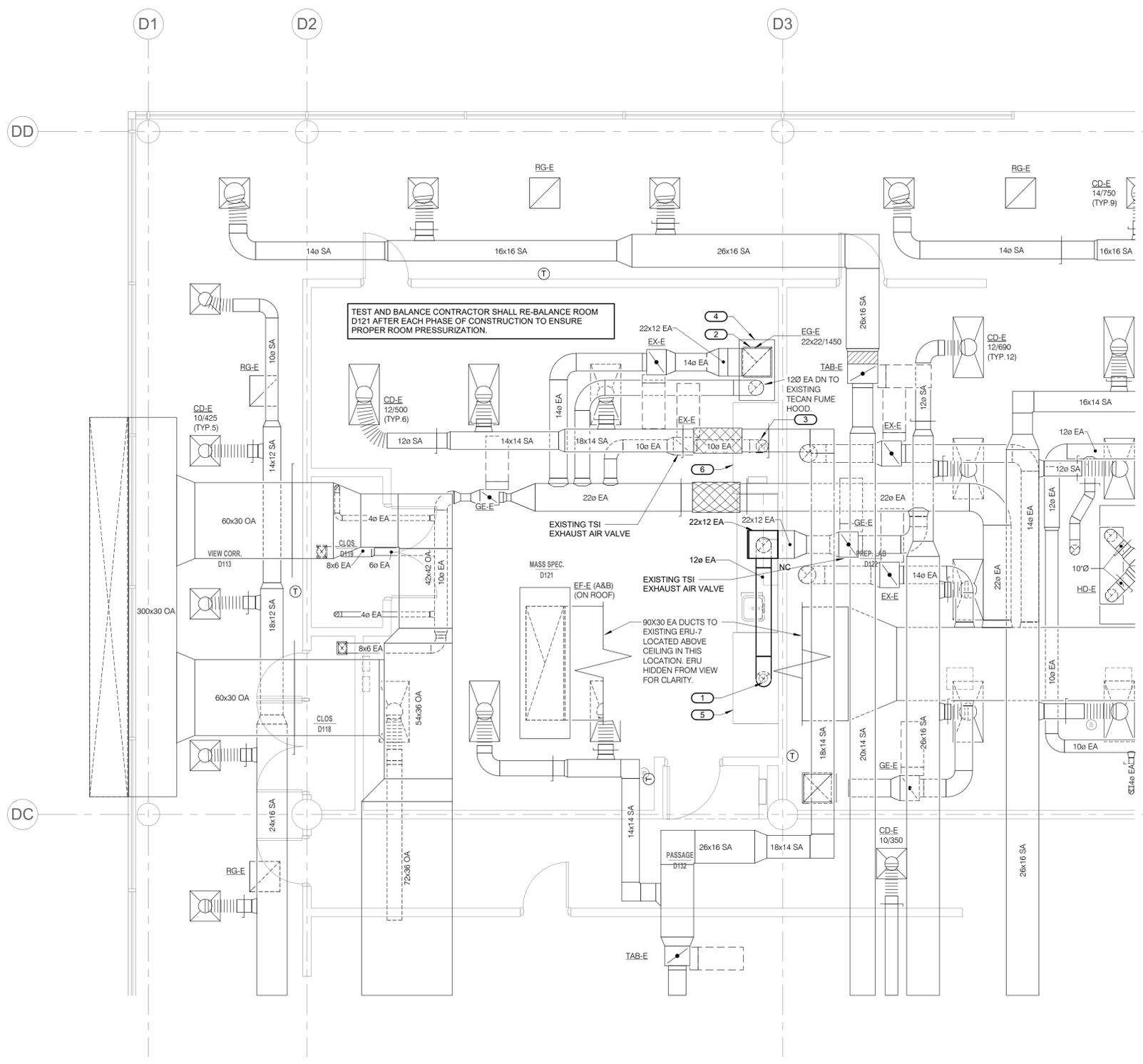
M101

GENERAL SHEET NOTES :

- REFER TO G001 FOR PROJECT PHASING PLAN.
- REFER TO DIVISION 00 AND 01 SPECIFICATIONS FOR REQUIREMENTS AND LIMITATIONS ON ACCESS TO SPACE.

KEYNOTES: (#)

- CONNECT EA DUCT TO NEW FUME HOOD. ROUTE NEW EA DUCT UNDER EXISTING ERU-7 AND STRUCTURAL FRAMING SUPPORTING HEAT RECOVERY UNIT.
- RE-BALANCE EXISTING GENERAL EXHAUST AFTER NEW FUME HOOD IS IN OPERATION TO ACHIEVE ROOM DIFFERENTIAL PRESSURE OF 0.01 INCHES WATER COLUMN.
- CONNECT EA DUCT TO REPLACEMENT FUME HOOD.
- EXISTING TECAN FUME HOOD. RELOCATE TECAN HOOD AS REQUIRED TO MAINTAIN TECAN OPERATION. INSTALL TEMPORARY DUST BARRIER AND TO ALLOW FOR EXISTING FUME HOOD REPLACEMENT. EXTEND EXISTING DUCT BELOW CEILING TO ACCOMMODATE TECAN FUME HOOD RELOCATION. ADDED DUCTWORK SHALL MATCH EXISTING DUCT. TEMPORARY FLEX DUCT IS NOT ACCEPTABLE. TECAN FUME HOOD SHALL BE MOVED BACK TO ORIGINAL LOCATION AFTER EXISTING FUME HOOD REPLACEMENT IS COMPLETE.
- NEW FUME HOOD HOOD IS MOTT MANUFACTURING, PRO BENCH 72" STYLE PURCHASED AND PROVIDED BY OWNER AND INSTALLED BY OTHERS. ACID CABINET BELOW FUME HOOD TO VENT INTO FUME HOOD. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL VELOCITY SENSOR ON LEFT SIDE OF FUME HOOD.
- REPLACEMENT FUME HOOD HOOD IS MOTT MANUFACTURING, PRO BENCH 72" STYLE HOOD WHICH IS PURCHASED AND PROVIDED BY OWNER AND INSTALLED BY OTHERS. ACID CABINET BELOW FUME HOOD TO VENT INTO FUME HOOD. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.



1 LEVEL 01 - VENTILATION
1/4" = 1'-0"

8/23/2018 9:46:27 AM SHL ANK Fume Hood Install and Replacement 18002815.00

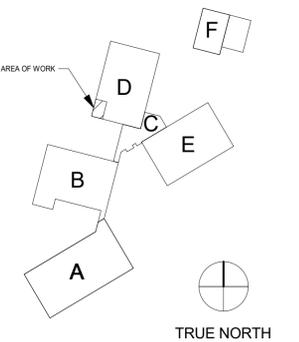
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Date	AUGUST 9, 2018
Job Number	18002815.00
Drawn	PETERN
Checked	DAVING
Approved	NATJAC

SHEET TITLE

PLUMBING DETAILS

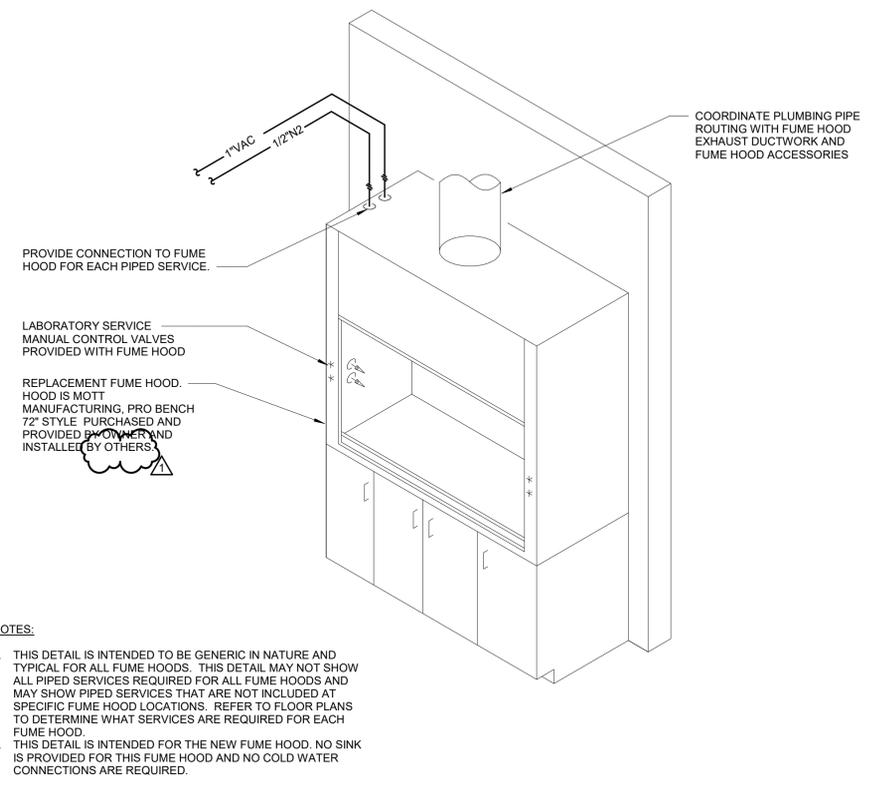
SCALE

Scale: **12" = 1'-0"**

SHEET NUMBER

P200

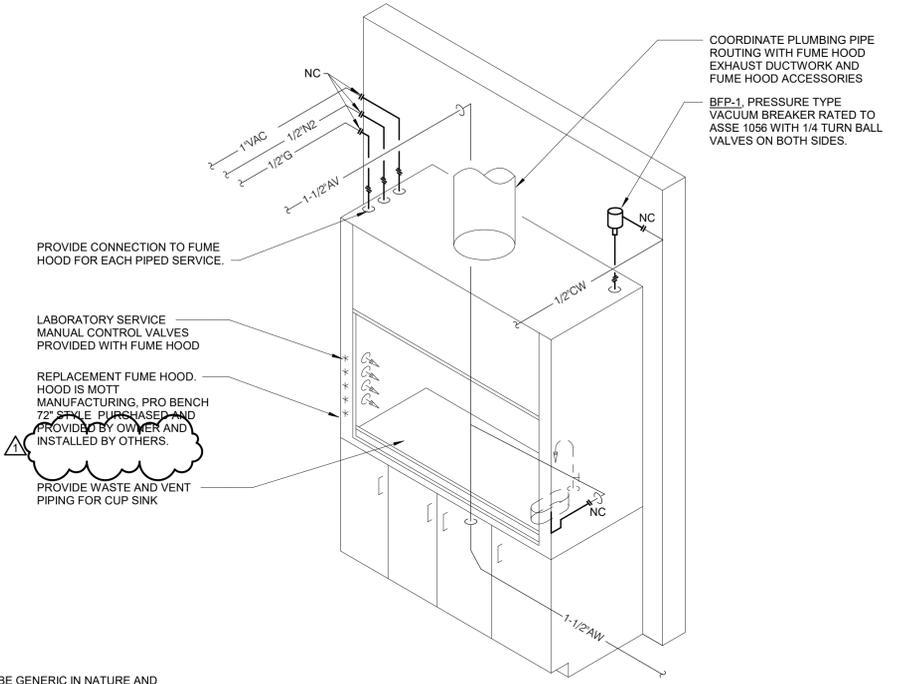
PLUMBING FIXTURE SCHEDULE		
TAG NAME	DESCRIPTION	MANF. & MODEL
BFP-1	BACK FLOW PREVENTER - PRESSURE VACUUM BREAKER, ANTI-SIPHON, SPILL RESISTANT, COPPER SILICON ALLOY BODY, HEAVY DUTY FDA APPROVED RUBBER DIAPHRAGMS, SIZE SAME AS PIPE, FULL PORT BALL VALVE ON INLET AND OUTLET OF UNIT, RATED FOR 150 PSI AT 33°F TO 130°F, APPROVED BY ASSE 1056.	WATTS (LF008PCQT), WILKINS (460XL)



- NOTES:**
1. THIS DETAIL IS INTENDED TO BE GENERIC IN NATURE AND TYPICAL FOR ALL FUME HOODS. THIS DETAIL MAY NOT SHOW ALL PIPED SERVICES REQUIRED FOR ALL FUME HOODS AND MAY SHOW PIPED SERVICES THAT ARE NOT INCLUDED AT SPECIFIC FUME HOOD LOCATIONS. REFER TO FLOOR PLANS TO DETERMINE WHAT SERVICES ARE REQUIRED FOR EACH FUME HOOD.
 2. THIS DETAIL IS INTENDED FOR THE NEW FUME HOOD. NO SINK IS PROVIDED FOR THIS FUME HOOD AND NO COLD WATER CONNECTIONS ARE REQUIRED.

1 FUME HOOD DETAIL (NEW FUME HOOD)

NO SCALE



- NOTES:**
1. THIS DETAIL IS INTENDED TO BE GENERIC IN NATURE AND TYPICAL FOR ALL FUME HOODS. THIS DETAIL MAY NOT SHOW ALL PIPED SERVICES REQUIRED FOR ALL FUME HOODS AND MAY SHOW PIPED SERVICES THAT ARE NOT INCLUDED AT SPECIFIC FUME HOOD LOCATIONS. REFER TO FLOOR PLANS TO DETERMINE WHAT SERVICES ARE REQUIRED FOR EACH FUME HOOD.
 2. THIS DETAIL IS INTENDED FOR THE REPLACEMENT FUME HOOD. A CUP SINK IS PROVIDED WITH THIS FUME HOOD AND REQUIRES A COLD WATER CONNECTION.

2 FUME HOOD DETAIL (REPLACEMENT FUME HOOD)

NO SCALE

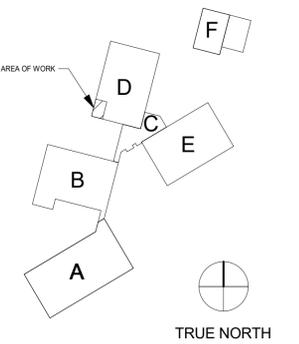
SHL ANK Fume Hood Install and Replacement

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IDAS PROJECT # 9031.00

CONSULTANT

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PLANNING | ARCHITECTURE | INTERIORS

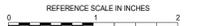
KEY PLAN



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REVISIONS

No.	Date	Revision / Issue
1	08/23/2018	ADDENDUM #1

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	AUGUST 9, 2018
Job Number	18002815.00
Drawn	IPS
Checked	KLS
Approved	ADT

SHEET TITLE

LEVEL 01 - ELECTRICAL DEMOLITION

SCALE

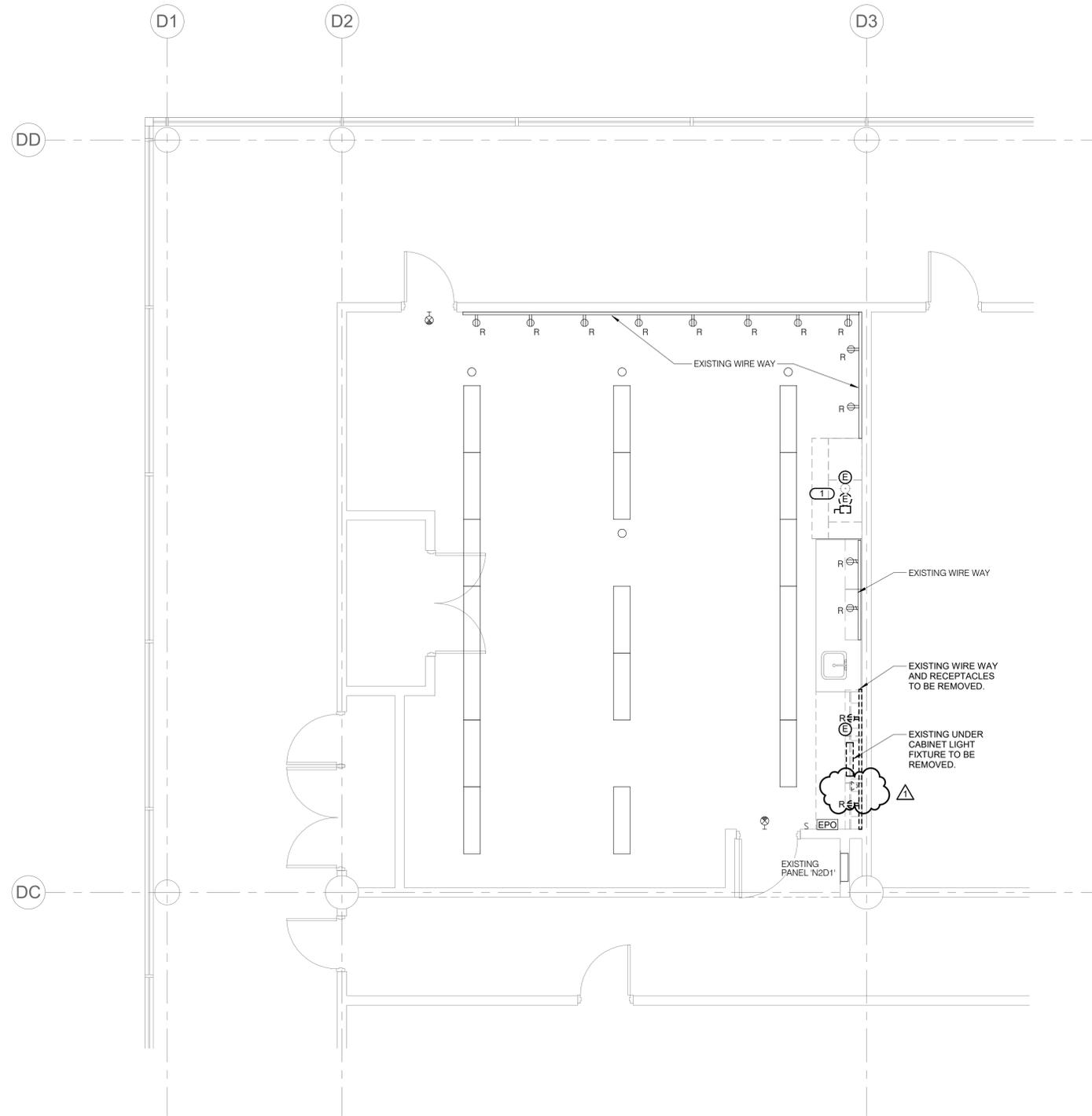
Scale: **1/4" = 1'-0"**

SHEET NUMBER

E100

GENERAL SHEET NOTES:
1. REFER TO G001 FOR PROJECT PHASING PLAN.

KEYNOTES:
1. DISCONNECT POWER TO HOOD FOR REMOVAL BY OTHERS. CONDUIT AND WIRE SHALL REMAIN FOR REUSE. REFER TO E101 FOR MORE INFORMATION.



1

LEVEL 01 - ELECTRICAL DEMOLITION

1/4" = 1'-0"

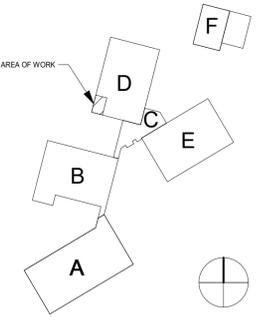
SHL ANK Fume Hood Install and Replacement

2220 S. Ankeny Blvd
Ankeny, Iowa 50023
IDAS PROJECT # 9031.00

CONSULTANT

INVISION
PLANNING | ARCHITECTURE | INTERIORS

KEY PLAN



TRUE NORTH

AGENCY APPROVAL

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REVISIONS

No.	Date	Revision / Issue
1	08/23/2018	ADDENDUM #1

SHEET INFORMATION

Issue	BID DOCUMENTS
Date	AUGUST 9, 2018
Job Number	18002815.00
Drawn	IPS
Checked	KLS
Approved	ADT

SHEET TITLE
LEVEL 01 - ELECTRICAL

SCALE

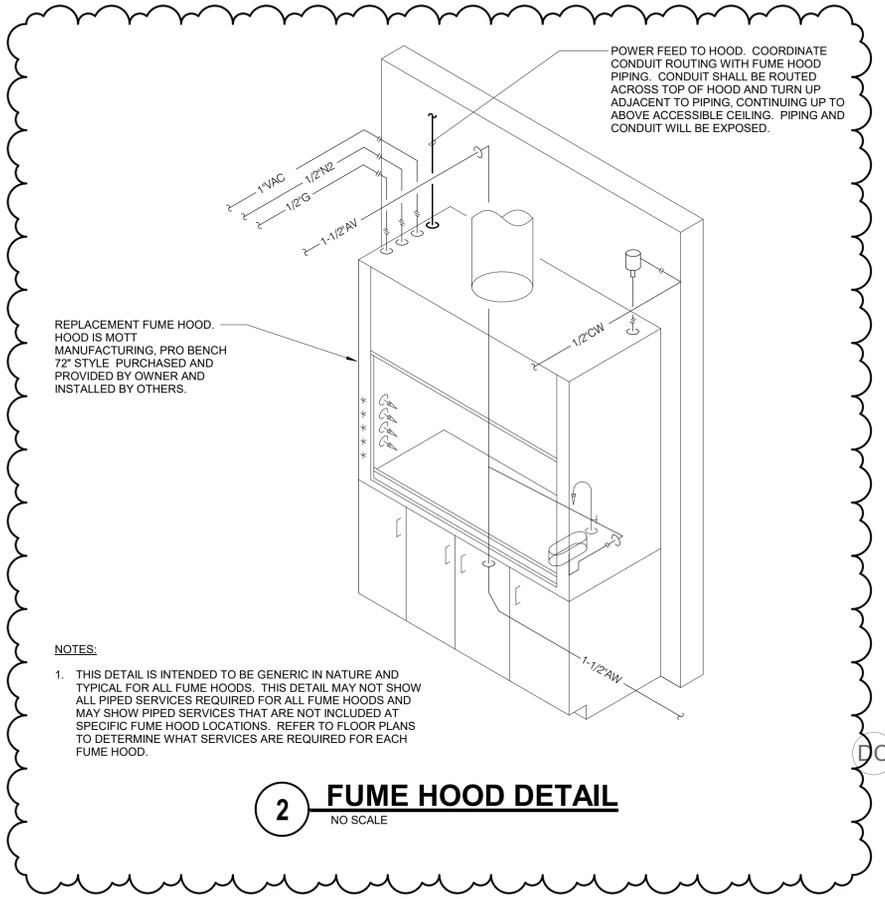
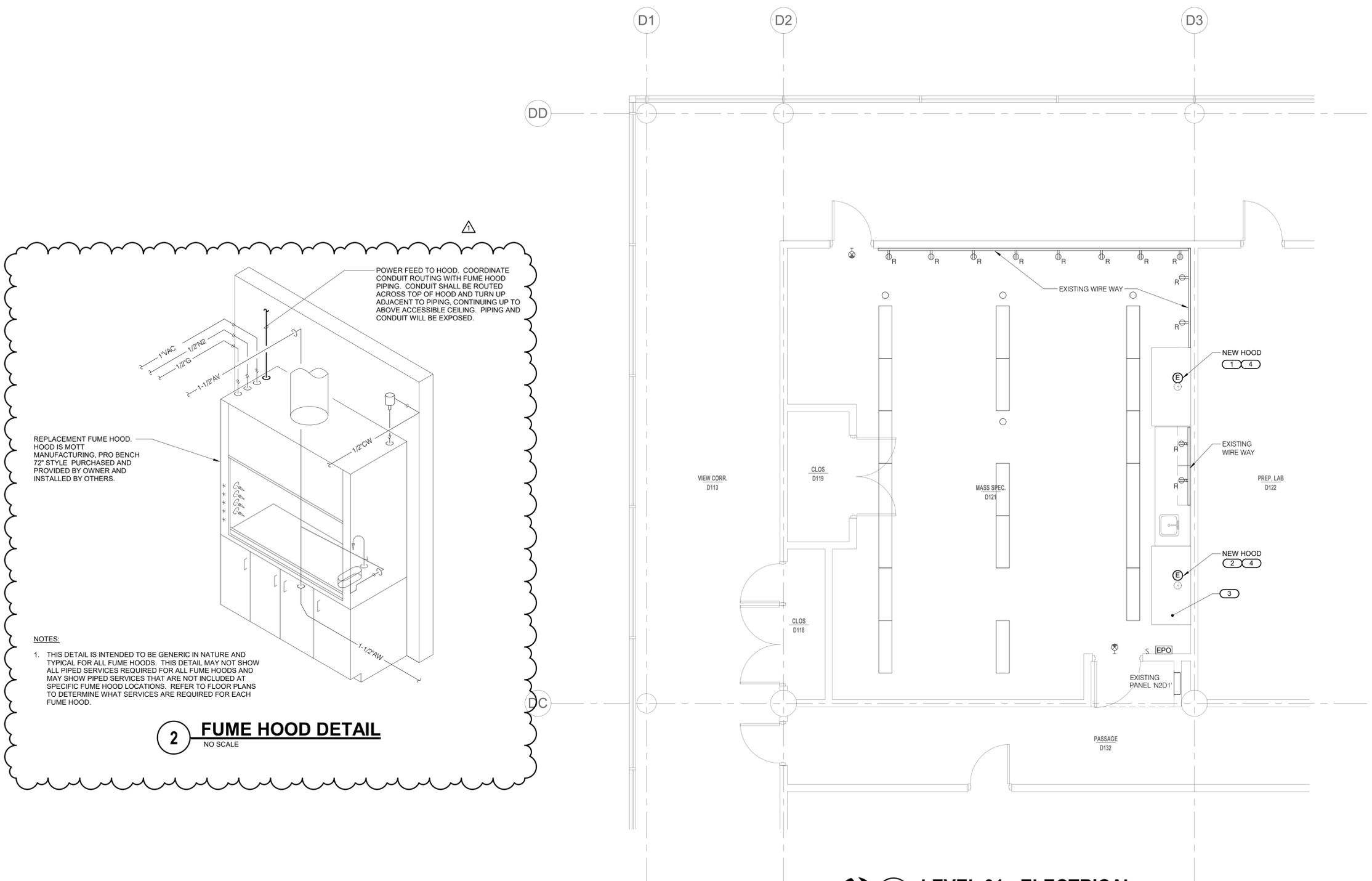
Scale: **As Indicated**

SHEET NUMBER

E101

- GENERAL SHEET NOTES :**
- NOT ALL ELECTRICAL DEVICES ARE SHOWN ON PLANS.
 - REFER TO G001 FOR PROJECT PHASING PLAN.

- KEYNOTES: (#)**
- CONNECT NEW HOOD TO EXISTING HOOD CIRCUIT. EXTEND CONDUIT AND WIRE AS NECESSARY.
 - CONNECT NEW HOOD TO EXISTING 20A/1P SPARE CIRCUIT IN EXISTING PANEL 'N2D1' USING 2#12 & 1#12 GND IN 3/4" CONDUIT.
 - COORDINATE EXISTING CONDUIT AND JUNCTION BOXES WITH NEW DUCT WORK FOR FUME HOOD. REROUTE CONDUIT AND JUNCTION BOXES AS NECESSARY. COORDINATE WITH M.C. AND CONSTRUCTION DOCUMENTS PRIOR TO REROUTING.
 - LIGHT, LIGHT SWITCH, AND DUPLEX RECEPTACLES ARE INSTALLED AND PRE-WIRED IN HOOD BY MANUFACTURER.



2 FUME HOOD DETAIL
NO SCALE

1 LEVEL 01 - ELECTRICAL
1/4" = 1'-0"