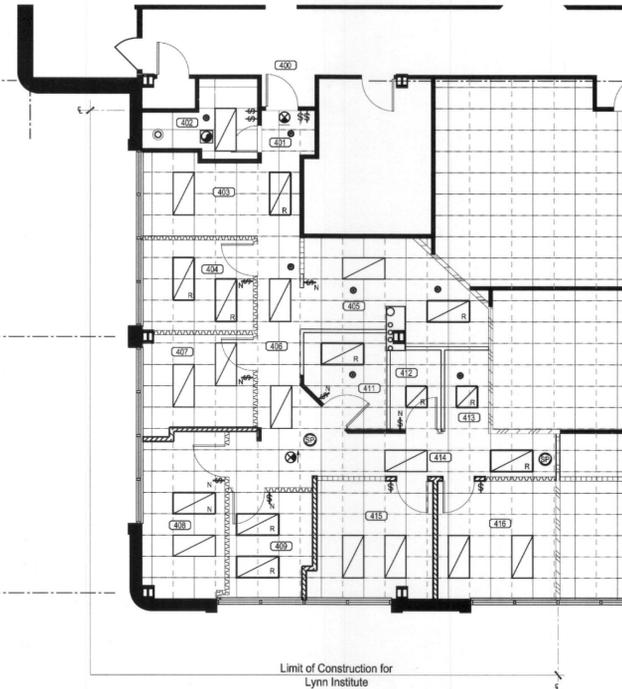






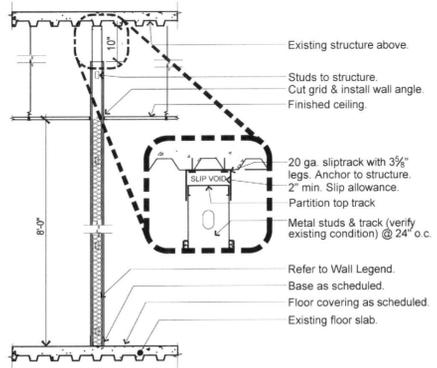
**Sheet A2.0 Plan Notes**

- Refer to General Notes for additional requirements.
- The **SUSPENDED CEILING SYSTEM** is existing-to-remain throughout (unless noted otherwise), and shall be refurbished as follows:
  - Suspended grid and components shall be cleaned or touched-up where soiled or discolored. Repair and/or replace damaged members. Caulk fill all holes. Match existing conditions.
  - Clean, touch-up and/or replace soiled, discolored and damaged ceiling tiles. Replacement ceiling board shall be per specifications or building standards.
  - Inspect grid suspension system and adjust ceiling plane, if necessary. Provide additional support where necessary.
  - Replacement of materials, when required, shall occur consistently and completely in individual rooms and/or spaces for uniformity of appearance and aesthetics.
  - Installation of tiles shall be continuous over walls or individually cut-in at rooms or areas. Refer to drawings for specific requirements.
  - All tiles shall be seated tight, level and true within the grid system.
- CEILING HEIGHT:** 8'-0" AFF (UNO). Refer to construction details for ceiling construction and interface with partitions.
- FIXTURES AND DEVICES:** Provide and/or relocate light fixtures, switches, and controls indicated on the drawings.
  - Refer to Symbols Legend for fixture type and/or specification.
  - Install and support fixtures from the structure in accordance with the code.
  - Install all new light fixtures, sprinkler heads, diffusers, speakers, detectors, alarms, etc. in the center of the ceiling board or section and symmetrical throughout rooms and open areas, unless noted otherwise.
  - The contractor shall field verify all proposed locations of light fixtures prior to commencing construction and shall notify TPS of any discrepancies and/or conflicts with existing installations.
  - Existing fixtures scheduled to remain or be re-used shall be inspected and reworked, if necessary. Fixtures shall be cleaned, including lenses and lamps. Defective ballasts and other components shall be replaced. Match existing conditions.
  - All light fixtures, exit signs, and switch devices shown throughout are to be assumed existing to remain (unless noted otherwise).
    - "R" indicates relocated fixture or device
    - "N" indicates new fixture or device
- EXISTING FIRE SPRINKLER HEADS** mounted in the ceiling may be shown on the drawings, and are intended for informational purposes only. Drawings shall be submitted by the General Contractor for any new work required.
- MODIFY EXISTING FIRE SPRINKLER SYSTEM** on a *DESIGN-BUILD* basis. Conform to these drawings and documents and as required for obtaining a building permit. Refer to General Notes.
- PROVIDE ELECTRICAL POWER AND COMMUNICATIONS OUTLETS,** receptacles and devices indicated on the drawings.
  - Refer to symbols legend for device type and/or specification.
  - Install in locations as shown on the drawings.
  - All power and communications receptacles provided for general purposes shall be installed at 18" from the finished floor to the center of the device (unless noted otherwise).
  - Unless noted otherwise, all electrical power and communications outlets, receptacles and devices are dimensioned to the centerline of the device or pair of devices.
  - Confirm all box locations with Tenant prior to wiring.
  - All rectangular outlet boxes shall be installed with the long side in the horizontal position, except above counters and cabinets, or otherwise shown on the drawings.
  - All rectangular switch and control boxes for lighting and other devices shall be installed with the long side in the vertical position, recessed flush with the wall surface and at 48" above finished floor to the center of the control unit (unless noted otherwise).
  - Outlets shall not be installed back to back in sound insulated partition.
  - All outlets indicated to be installed in existing partitions or furred partitions or columns shall be cut-in or recessed flush with wall surface. Furr and/or remove sheathing, if necessary.
  - All electrical power and communications outlets, receptacles and devices shown throughout are to be assumed existing to remain (unless noted otherwise).
    - "R" indicates relocated outlet or device
    - "N" indicates new fixture or device
- NEW WIRING DEVICES** shall be specification grade; 15 amp. For general application, 20 amp. or greater for dedicated circuits and as required by circuit load. Provide smooth nylon cover plates for all outlets and devices. Color: match existing.
- COMMUNICATION DATA OUTLETS** shall conform to the following:
  - Communication/data outlets shall consist of an opening in the sheathing with a single gang plaster ring and pulwires with plastic bushing up through wall to the ceiling plenum.
  - When inaccessible by the method described above or when indicated on the drawings, include one (1) 3/4" conduit (min.) and 2" deep single gang box for outlet.
  - Where communications/data outlets are located in low height partitions or mounted in floors, a maximum of three (3) outlets shall be fed from one (1) 3/4" conduit.
  - All communication/data cables, plates, jacks, and final connections shall be provided under a separate contract by the Tenant. All materials shall be installed in compliance with all codes and ordinances and these documents. Cables and fittings installed above the ceiling in the return air plenum shall be rated and labeled for use in plenums. Cables shall be supported from the structure, independent of other support hangers.
- REMOVE ALL EXISTING FINISH TREATMENTS** including carpet, VCT, baseboard, and wall treatment and provide new finish treatments as specified throughout lease space (unless noted otherwise).
- COMMON AREA FINISH TREATMENTS:** Rework and/or add new finish treatments as necessary at all common areas of the building where construction occurs. All materials and workmanship shall match existing conditions (unless noted otherwise).
- RE-USE EXISTING WINDOW COVERINGS** at exterior glazing throughout. Wrap and bag all window coverings during construction.

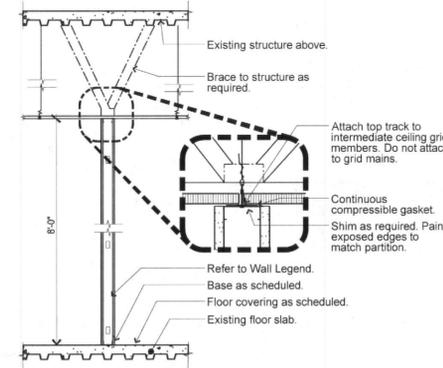


**1 Reflected Ceiling Plan**  
Suite 420  
Scale: 1/8" = 1'-0"  
North

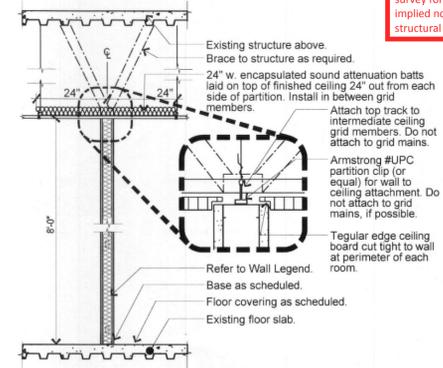
Finish Treatment Schedule					
NOTE: all surfaces must be clean, dull, and dry before coatings are applied. All product is assumed to be NEW, unless noted otherwise.					
Material	Manufacturer	Style/Line	Color	MARK	Remarks/Comments
Wallcovering	Primer	Sherwin-Williams ProMar 200 Zero VOC Primer	White	(Not Shown)	Primer for all new exposed gypsum board surfaces.
		B66W1	White	--	Primer for new steel, galvanized or aluminum substrate.
Interior Paint	Sherwin-Williams ProMar 200 Zero VOC Interior Latex Eg-Shel B20-2600 Series	TBD	TBD	P1	Provide two (2) coats (minimum) at all new surfaces.
			TBD	P2	P1: Paint all exposed gypsum board surfaces throughout Limit of Construction (UNO).
			TBD	P3	P2 & P3: Accent paint, locations to be determined.
Millwork	Plastic Laminate	TBD	TBD	PL1	Countertops and Splashes, UNO
		TBD	TBD	TBD	PL2
Floor covering	Broadloom patterned loop carpet	TBD	TBD	C1	Provide an allowance of \$22/sq.yd. material only (excluding tax and freight). Include schluter strip at flooring transition.
		4" Cove Rubber Base Trim	TBD	TBD	TBD



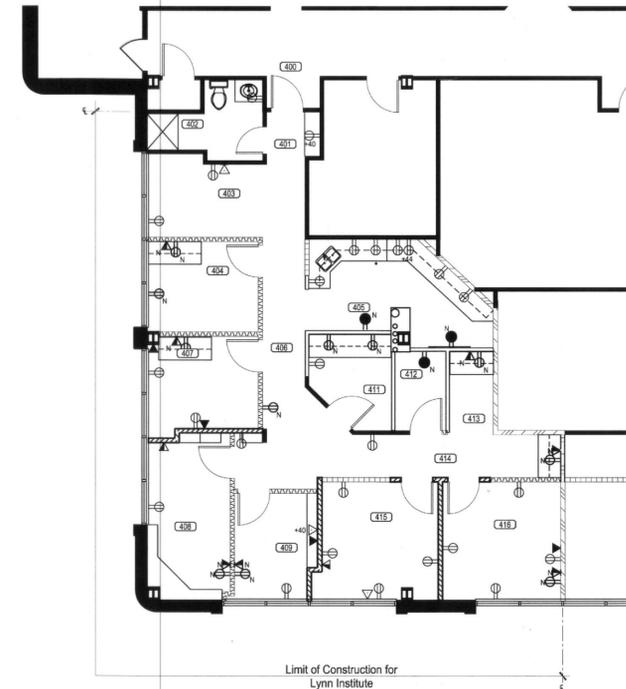
**3 Section: Partition**  
Typical Demising Partition  
Scale: 1/2" = 1'-0"



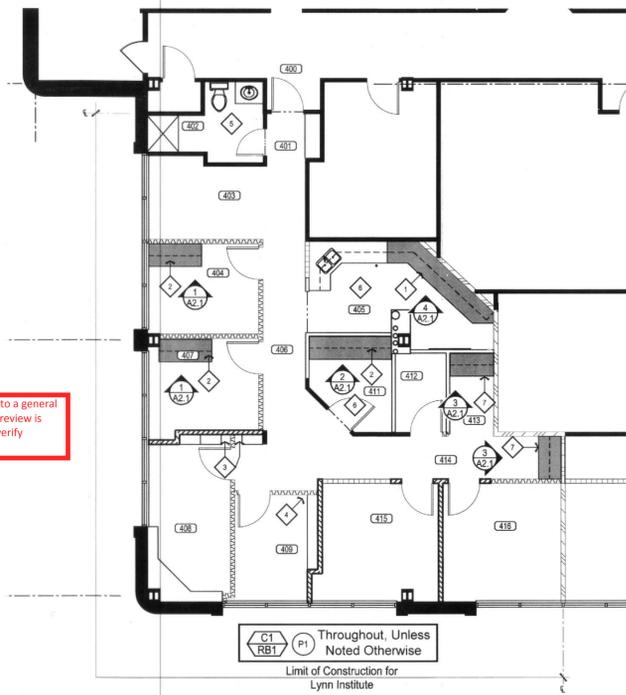
**4 Section: Partition**  
Typical Standard Interior Partition  
Scale: 1/2" = 1'-0"



**5 Section: Partition**  
Typical Sound Attenuating Partition  
Scale: 1/2" = 1'-0"



**2 Power & Communications Plan**  
Suite 420  
Scale: 1/8" = 1'-0"  
North



**3 Millwork & Finish Treatment Plan**  
Suite 420  
Scale: 1/8" = 1'-0"  
North

**Room Schedule**

400	Public Corridor	409	Office
401	Tenant Entrance	410	---
402	Unisex Restroom	411	Break Room
403	Waiting	412	Closet
404	Exam Room	413	Open Work Area
405	Work Room	414	Tenant Hallway
406	Tenant Hallway	415	Office
407	Exam Room	416	Office
408	Office	417	---

**Sheet Keyed Notes**

- RELOCATED MILLWORK. Refer to Demolition and Millwork plans.
- NEW WALL CABINETS & COUNTERTOP. Refer to detail(s). Include backing in partition per Sheet A1 Plan Note 16.
- At existing book shelves. Provide new finished end to match existing finish.
- Rework existing base cabinet. Cut down existing door and base cabinet as necessary for new layout, rework as necessary for new size and reattach door to existing millwork.
- At Restroom. EXISTING FINISH TREATMENTS TO REMAIN, including floorcovering, base trim, and wallcovering.
- At Work Room 405 & Break Rm 411: EXISTING FLOORCOVERING to remain in this area(s). Provide new base trim as scheduled.
- At Open Work Areas: NEW COUNTERTOP & SHELVING. Refer to detail(s). Include backing in partition per Sheet A1 Plan Note 16.

**Symbol Legend**

**Ceiling Mounted Fixtures/ Devices**

- Building Standard 2x4 LED light fixture
- Building Standard 2x2 LED light fixture

NOTE: all fixtures shown half shaded shall have night light egress function.

- Vent fan assembly
- Existing as-built sprinkler head location
- Ceiling mounted audio speaker
- Building Standard exit sign (UNO). Green letters on white face. Battery backup. Shade indicates face(s) and arrows (if any) indicate direction.

**Wall Mounted Fixtures/ Devices**

- Building Standard single pole switch
- Special function switches: "OS" = occupancy sensor
- Duplex electrical receptacle & face plate
- Quadplex electrical receptacle & faceplate
- Duplex electrical receptacle & face plate on dedicated circuit
- Single gang J-box with RJ-11 telephone outlet and face plate
- Combination telephony/ data outlet rough-in (3/4" conduit) with double gang J-box and single gang plaster ring with pull string to above finished ceiling.
- Existing J-Box with blank face plate
- Water line

"N" New fixture/ device to be installed  
"R" Relocated fixture/ devices  
Refer to Engineering Drawings for complete specifications

**TPS**  
**TENANT PLANNING SERVICES INCORPORATED**  
1660 Lincoln St, Ste. 100  
Denver, Colorado 80264  
(303) 861-4800  
fax (303) 861-1621  
www.TPS.design

**1411 South Potomac**  
1411 South Potomac  
Aurora, CO 80012  
**Suite 420**

STATE OF COLORADO  
ROBERT J. KLAP  
B-3282  
LICENSED ARCHITECT  
11/14/17

**Lynn Institute**

**Dates of Record**  
Project Start Date: 30 October 2017  
Issued On: Issued For:  
14 Nov 2017 Tenant Review & Approval; and Construction

City of Aurora Building Division  
Reviewed for Code Compliance  
Approved as Noted: **W. Griffin**  
Date: **Feb 21, 2018**  
2015 INTERNATIONAL CODES & 2017 NEC

Sheet Contents  
Reflected Ceiling Plan  
Power & Communications Plan  
Millwork & Finish Treatment Plan  
Finish Treatment Schedule  
Standard Partition Sections

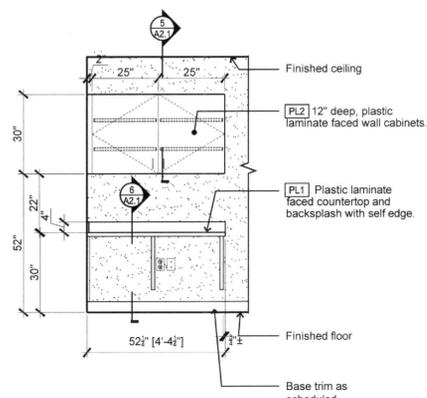
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Permit # 18-1420046 TF

RSN: 1268800  
Permit #: 18-1420046 TF

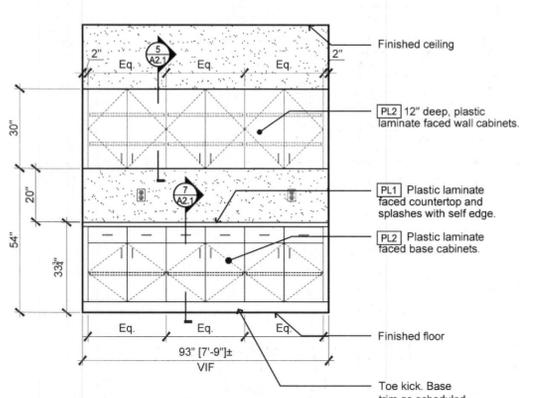
1411 South Potomac • Lynn Institute

**A2.0**

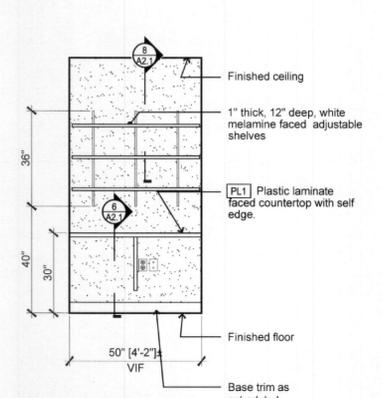
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 DWG save date: 11/14/2017 8:03:32 AM  
 P1 create date: 11/14/2017 8:03:32 AM  
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 by: timb P-4205, 1411 South Potomac-426005\_Lynn Institute Suite 420-drawings-construction documents-426005.dwg



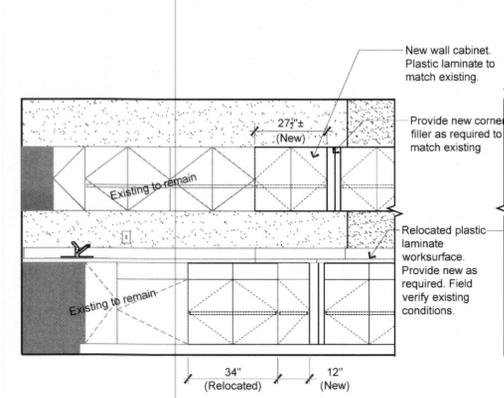
**1 Millwork: Elevation**  
 At Exam Room(s) 404 & 407  
 Scale: 3/8" = 1'-0"



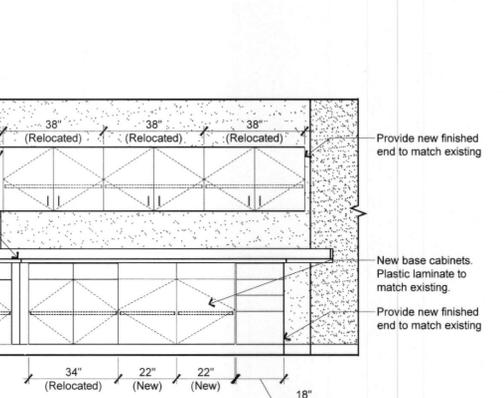
**2 Millwork: Elevation**  
 At Break Room 411  
 Scale: 3/8" = 1'-0"



**3 Millwork: Elevation**  
 At Open Work Area 413 & 414  
 Scale: 3/8" = 1'-0"



**4 Millwork: Elevation**  
 At Work Room 405  
 Scale: 3/8" = 1'-0"

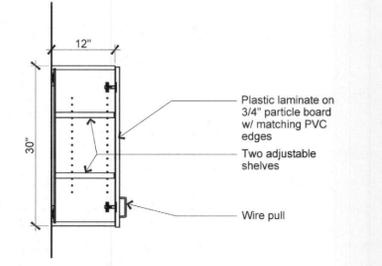


**5 Millwork: Elevation**  
 At Work Room 405  
 Scale: 3/8" = 1'-0"

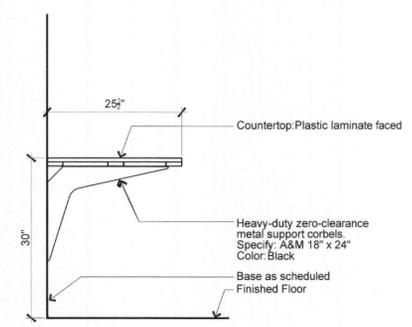
**Architectural Casework Specifications**

- Construction:**
- Cabinet Casework:** All cabinet casework shall be 3/4" melamine covered particle board. All cabinet pieces shall be multiple doweled, using aliphatic resin glue and machine clamped under pressure for a square secure fit.
  - Toeboard Assemblies:** Toe-board assemblies shall be assembled loose for base and tall units for field installation. Rubber base shall be furnished and installed by others. Toe-board material to be fabricated from mill option material.
  - Cabinet Top and Bottom:** Cabinet top and bottom shall be 3/4" melamine covered particle board. Bottoms of upper cabinets to be melamine to match cabinets interior. Base cabinets shall have a 4 5/8" wide stretcher on top for fastening countertop. Edge banding to match cabinet ends.
  - Cabinet Ends:** Ends shall be 3/4" thick melamine covered particle board interior. Exterior finished ends are to be high pressure laminate. Holes for adjustable shelf clips shall be 1 1/4" on center. Front edges to be banded with PVC. Color to match plastic laminate used on door faces.
  - Adjustable Shelves:** Shelving shall be 3/4" thick melamine covered particle board both sides. Front edges shall be banded with matching color PVC material.
  - Cabinet Back:** Backs shall be 1/4" thick melamine covered particle board, one face. Backs shall be rabbeted and securely glued into sides and bottom. A 1/2" hanger cleat is securely glued and nailed through cabinet back into top of wall cabinets and into back stretcher of base cabinets.
  - Cabinet Doors and Drawer Fronts:** Doors and drawer fronts shall be 3/4" thick particle board laminated on both faces with high pressure laminate. All edges shall be banded with PVC material coordinating with face color. Maximum door width to be 24".
  - Drawers:** Sides, back and subfront shall be 5/8" melamine covered particle board. Bottom shall be 1/4" melamine covered particle board to match cabinet interiors. Drawer sides are machined with a lock joint and glued and stapled together for secure fit. Bottom to be rabbeted into sides and subfront.
  - Counter Top:** Cabinets shall have continuous one piece counter tops up to 12'-0" length constructed of 3/4" particle board with 1 1/2" shelf edge. Tops over 12'-0" long shall be splined and joined together with metal fasteners.
  - Fillers:** All fillers shall be 3/4" particle board material covered on one face with high pressure laminate to match door and drawer fronts.
- Materials:**
- Plastic Laminate:** Shall be used on all door and drawer faces. All laminate shall meet all NEMA standards. Colors to be selected from full range of colored laminates by Wilsonart, Formica or Nevamar. Refer to Finish Schedule.
  - Counter Tops:** Counter tops shall be horizontal grade high pressure laminate with a suitable backing sheet on a 45 pound industrial particle board.
  - Casework Interiors:** Covered 45 pound industrial particle board. Color of interiors shall be white, unless noted otherwise.
  - Plastic Edging:** Edge banding on all casework to be PVC to match plastic laminate on door and drawer faces. Edge banding on doors and drawer fronts to be PVC material coordination.
- Hardware:**
- Hinges:** Hinges shall be concealed steel type, chrome finish, 110", with automatic spring (heavy duty).
  - Pulls:** Pulls for doors and drawers shall be a metal wire pull in satin aluminum, anodized.
  - Drawer Slides:** Drawer suspension shall be of a side-bottom mounted white epoxy type with 3/4" extension. Load rating of 100 pounds. Files drawers shall be full extension.
  - Door Catches:** Door catches shall be European style, self-closing concealed hinge with adjustment.
  - Shelf Supports:** Adjustable shelf supports shall be a nylon covered 5mm diameter steel pin for predrilled holes in cabinet ends.

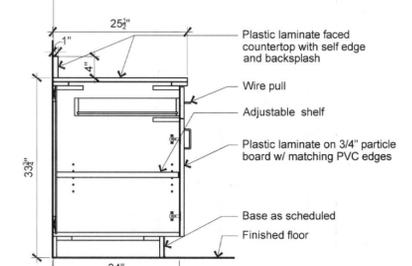
**CONTRACTOR TO PROVIDE SHOP DRAWINGS TO TPS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.**



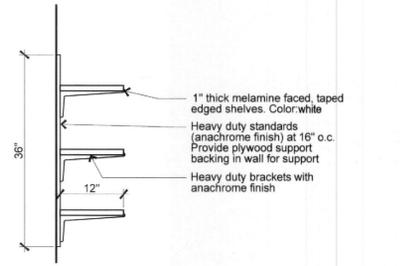
**5 Section**  
 Wall Cabinet  
 Scale: 3/4" = 1'-0"



**6 Section**  
 Worksurface  
 Scale: 3/4" = 1'-0"



**7 Section**  
 Base Cabinet  
 Scale: 3/4" = 1'-0"



**8 Section**  
 Adjustable Shelves  
 Scale: 3/4" = 1'-0"

This sheet of drawings has not been reviewed for code compliance.

### MECHANICAL GENERAL NOTES

**GENERAL**

**SCOPE**

THE INTENT OF THE SPECIFICATION AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL MECHANICAL SYSTEM. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO COMPLETE THE MECHANICAL WORK.

**SITE EXAMINATION**

THE MECHANICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, DUCTWORK, AND PIPING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE MECHANICAL WORK.

**STANDARDS**

EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF ARI, ASME, ASTM, UL, NEMA, ANSI, SMACNA, ASHRAE, AND NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

**CODES**

ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATION AND THE CODES AND THE ORDINANCES, THE HIGHEST STANDARDS SHALL APPLY. THE MECHANICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO OWNER/TENANT.

**PERMITS AND FEES**

THE MECHANICAL CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, FEES AND INSPECTORS NECESSARY TO COMPLETE THE MECHANICAL WORK.

**WARRANTY**

THE MECHANICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER/TENANT AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIAL AND WORKMANSHIP.

**DUCTWORK & ACCESSORIES**

**SHEETMETAL DUCTWORK**

ALL DUCTWORK TO BE RIGID SHEETMETAL CONSTRUCTED FROM GALVANIZED SHEET STEEL IN ACCORDANCE WITH SMACNA 1" PRESSURE CLASS DUCT CONSTRUCTION STANDARDS. ALL EXPOSED DUCTWORK TO BE ROUND, SPIRAL, OR RECTANGULAR LOCK-SEAM TYPE, AS SHOWN ON HVAC PLAN. ASSEMBLE AND INSTALL DUCTWORK IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICE FOR ACHIEVING AIR TIGHT (5% LEAKAGE) AND NOISELESS (NO OBJECTIONABLE NOISE) SYSTEMS, CAPABLE OF PERFORMING EACH INDICATED SERVICE. FURNISH ALL REQUIRED DAMPERS, TRANSITIONS, CONNECTIONS TO AIR TERMINALS, AND OTHER ACCESSORIES NECESSARY FOR A COMPLETE OPERATING SYSTEM. NO VARIATION OF DUCT CONFIGURATION OR SIZES WILL BE PERMITTED EXCEPT BY PERMISSION FROM THE ENGINEER.

**DUCT SEALANT**

SEAL ALL CONCEALED LONGITUDINAL AND TRANSVERSE JOINTS WITH A NON-HARDENING, NON-MIGRATING MASTIC OR LIQUID ELASTIC SEALANT OF A TYPE RECOMMENDED BY THE MANUFACTURER FOR SEALING JOINTS AND SEAMS IN SHEET METAL DUCTWORK. COVER ALL FIELD JOINTS, JOINTS AROUND SPIN-IN FITTINGS AND FASTENING SCREWS WITH MASTIC. DO NOT SEAL EXPOSED DUCT.

**SUPPORTS**

PROVIDE HOT-DIPPED GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS, TRIM, AND ANGLES FOR SUPPORT OF DUCTWORK.

**DAMPERS**

PROVIDE OPPOSED-BLADE, MULTI-LEAF VOLUME CONTROL DAMPERS WHERE INDICATED ON DRAWINGS AND AT POINTS ON LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCTS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS. PROVIDE UL LISTED FIRE DAMPERS WHERE REQUIRED AND IN ACCORDANCE WITH NFPA AND LOCAL CODES. PROVIDE CONVENIENTLY LOCATED ACCESS DOORS OF AMPLE SIZE AND QUANTITY FOR SERVICING THE DAMPERS.

**GRILLES, REGISTERS, & DIFFUSERS**

GRILLES, REGISTERS AND DIFFUSERS SHALL BE MANUFACTURED BY PRICE. DIFFUSERS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS AND SCHEDULES. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS ITEMS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION IN THE TYPE OF CEILING AND WALLS USED IN THIS PROJECT.

**CONTROLS AND OPERATIONS**

**CONTROL WIRING**

THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING NECESSARY FOR THE COMPLETE AND PROPER OPERATING TEMPERATURE CONTROL SYSTEM.

**CONTROLS**

MOUNT ALL CONTROLS @ 48" ABOVE FINISH FLOOR, UNLESS OTHERWISE NOTED.

**TESTING, ADJUSTING, AND BALANCING**

**TESTING, ADJUSTING, BALANCING**

MECHANICAL CONTRACTOR OR AN INDEPENDENT NEBB OR AABC CERTIFIED AIR BALANCE CONTRACTOR SHALL ACCURATELY BALANCE THE AIR SYSTEM TO PROVIDE AIR QUANTITIES INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION. OPERATE AUTOMATIC CONTROLS SYSTEM AND VERIFY SET POINTS DURING BALANCING. SUBMIT TWO (2) COPIES OF THE BALANCE REPORT TO THE ENGINEER FOR APPROVAL. INCLUDE A COPY OF THE BALANCE REPORT AS APPROVED BY THE ENGINEER WITH APPLICATION FOR FINAL CONTRACT PAYMENT.

Heating system shall be capable of maintaining 68 degrees F a 3'0" above the floor.  
2015 IMC 309, IRC 303.9 and IBC 1204.1

Provide proof of a flame spread less than 26 and a smoke development less than 50 for any material used in a plenum.  
2015 IMC 602.2.1

OUTSIDE AIR COMPLIANCE													
DESCRIPTION	ROOM NUMBER	AREA SF	PEOPLE/1000SF	POPULATION	CFM/PERSON	AREA AIRFLOW RATE	Ez	REQUIRED OUTSIDE AIR CFM	SUPPLY AIR	% OUTSIDE AIR	OUTSIDE AIR PROVIDED	EXHAUST AIR PROVIDED	
WAITING	403	75	30	2	5	0.06	0.8	20	200	25%	50	0	
EXAM ROOM	404	85	5	0	0	0.06	0.8	6	200	25%	50	0	
WORK ROOM	405	130	5	1	5.0	0.06	0.8	14	105	25%	26	0	
TENANT HALLWAY	406	135	0	0	0.0	0.06	0.8	10	40	25%	10	0	
EXAM ROOM	407	90	5	0	5.0	0.06	0.8	10	220	25%	55	0	
OFFICE	408	115	5	1	5.0	0.06	0.8	12	215	25%	54	0	
OFFICE	409	70	5	0	5.0	0.06	0.8	7	275	25%	69	0	
BREAK ROOM	411	60	5	0	5.0	0.06	0.8	6	65	25%	16	0	
OPEN WORK AREA	413	70	5	0	5.0	0.06	0.8	7	80	25%	20	0	
TENANT HALLWAY	414	60	0	0	0.0	0.06	0.8	5	20	25%	5	0	
OFFICE	415	120	5	1	5.0	0.06	0.8	13	320	25%	80	0	
OFFICE	416	115	5	1	5.0	0.06	0.8	12	320	25%	80	0	
TOTALS		1125		7				123	2060		515	0	

FAN TERMINAL UNIT SCHEDULE													
MARK	MFR. & MODEL NUMBER	AIR INLET SIZE	PRIMARY AIR		HEATING			FAN MOTOR			MCA	REMARKS	
			MAX. CFM	MIN. CFM	VOLTAGE	KW	HEATING CFM	VOLTAGE	HP	FLA			
B-VAV-11	VFPE11C2	8"Ø	835	210	277/1	7.5	835	277/1	1/3HP	1.9	36.4	1	
C-VAV-17	VFPE17D2	10"Ø	1700	425	277/1	10.0	1130	277/1	-	-	48.3	1	

NOTES:  
1. EXISTING TO REMAIN.

VAV TERMINAL SCHEDULE						
MARK	MANUFACTURER	MODEL	AIR INLET SIZE	MAX. PRIMARY AIR CFM COOLING	MIN. PRIMARY AIR CFM (% OF MAX. SETTING)	REMARKS
A VAV-17	TRANE	VCCE17	10"Ø	1350	25%	1

NOTES:  
1. EXISTING TO REMAIN.

DIFFUSER SCHEDULE									
MARK	SERVICE	FACE SIZE	NECK SIZE	FIRE DAMPER	VOLUME DAMPER	MFR	MODEL	REMARKS	
A	SUPPLY	-	-	-	-	-	-	EXISTING TO REMAIN OR BE RELOCATED	
B	SUPPLY	24" x 24"	6"Ø	NO	NO	PRICE	PDF	NEW	
C	SUPPLY	24" x 24"	8"Ø	NO	NO	PRICE	PDF	NEW	
D	SUPPLY	24" x 24"	10"Ø	NO	NO	PRICE	PDF	NEW	
R	RETURN	-	-	-	-	-	-	EXISTING TO REMAIN OR BE RELOCATED	
R1	RETURN	24" x 12"	22" x 10"	NO	NO	PRICE	PRRF	NEW	

**LEGEND**

- DIFFUSER, SEE SCHEDULE
- GRILLE, SEE SCHEDULE
- NEW RIGID RECTANGULAR DUCTWORK
- EXISTING RIGID RECTANGULAR DUCTWORK
- NEW RIGID ROUND DUCTWORK
- EXISTING RIGID ROUND DUCTWORK
- EXPOSED SPIRAL DUCTWORK
- DUCTWORK TO BE REMOVED
- FLEX, DUCTWORK.
- THERMOSTAT TO MATCH EQUIPMENT
- CFM, BALANCE WITHIN 10%
- EQUIPMENT DESIGNATION
- SPIN-IN WITH DAMPER
- RETURN AIR ARROW
- SUPPLY AIR ARROW
- CONNECT TO EXISTING

**Room Schedule**

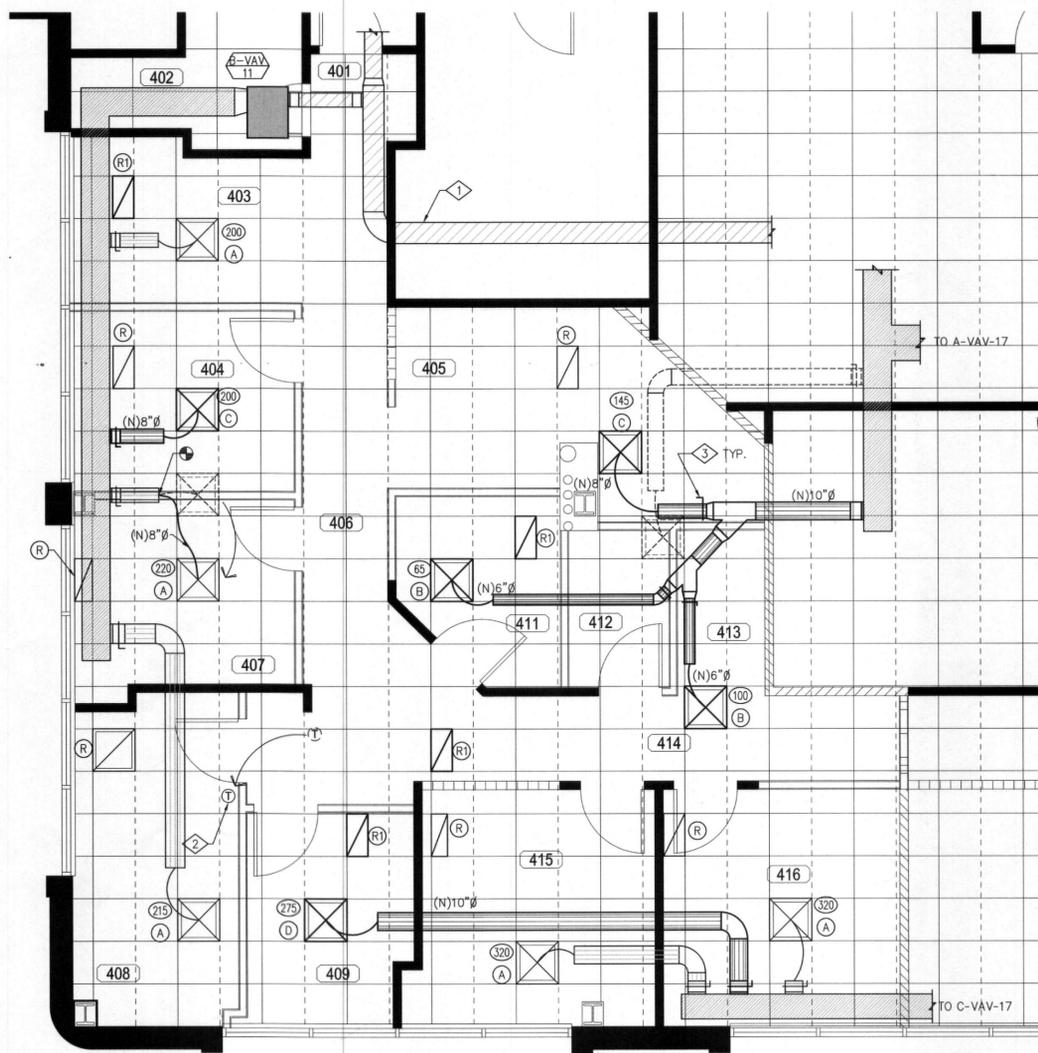
400	Public Corridor	409	Office
401	Tenant Entrance	410	---
402	Unisex Restroom	411	Break Room
403	Waiting	412	Closet
404	Exam Room	413	Open Work Area
405	Work Room	414	Tenant Hallway
406	Tenant Hallway	415	Office
407	Exam Room	416	Office
408	Office	417	---

**DETAIL NOTES:**

- (E) MEDIUM PRESSURE SUPPLY AIR.
- RELOCATE (E) THERMOSTAT.
- (N) MANUAL VOLUME DAMPER.

ALL GRILLES/DIFFUSERS & DUCTWORK ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

CLEAN ALL EXISTING GRILLES/DIFFUSERS.



**1 MECHANICAL PLAN**  
M1.0 SCALE: 1/4" = 1'-0"

City of Aurora Building Division  
Reviewed for Code Compliance  
Approved as Noted: **W. Griffin**  
Date: **Feb 21, 2018**  
2015 INTERNATIONAL CODES & 2012 NEC

RSN: 1268800  
Permit #: 18-1420046 TF

BRIAN SEYFERTH & ASSOCIATES, INC.  
  
PROFESSIONAL ENGINEER  
5583 South Prince Street  
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**1411 South Potomac**  
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Suite 420

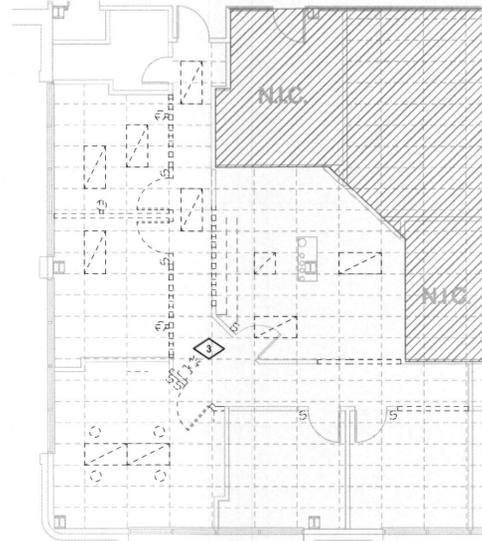


**Lynn Institute**

**Dates of Record**  
Project Start Date:  
Issued On: 16 NOV 2017  
Issued For: Tenant's Review & Approval, and Construction

Sheet Contents  
Project Team  
Project Number  
Sheet Mark  
MECHANICAL PLAN & SCHEDULES  
BSLC  
**M1.0**





**DEMOLITION PLAN**

SCALE: 1/8"=1'-0"

GENERAL NOTES:

- A. REMOVED ITEMS SHOWN AS DASHED AND LIGHT - - - -

**DETAIL NOTES**

- E.C. TO REMOVE ALL ABANDONED CONDUIT/CABLING/WIRING FROM SPACE INCLUDING ABOVE THE CEILING BACK TO SOURCE. ANY CIRCUITS MADE SPARE TO BE TURNED OFF AND LABELED AS SUCH WITH NEW TYPED PANEL SCHEDULES.
- RETURN LIGHTING NOT RE-USED TO BUILDING MANAGEMENT.
- SALVAGE ALL FIRE ALARM DEVICES AND EXIT SIGNS FOR RE-USE. RETURN ITEMS NOT RE-USED TO BUILDING MANAGEMENT STOCK.

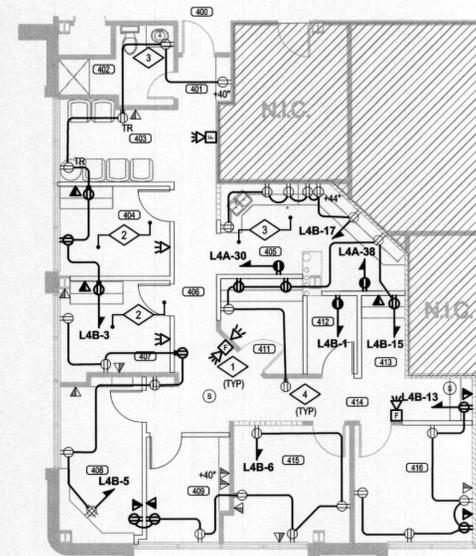
**Room Schedule**

400	Public Corridor	409	Office
401	Tenant Entrance	410	---
402	Unisex Restroom	411	Break Room
403	Waiting	412	Closet
404	Exam Room	413	Open Work Area
405	Work Room	414	Tenant Hallway
406	Tenant Hallway	415	Office
407	Exam Room	416	Office
408	Office	417	---

Install electrical connections per 2017 NEC 110.14, identify disconnects per 2017 NEC 110.22 and provide working space around electrical equipment per 2017 NEC 110.26.

Wiring in air handling spaces must comply with 2017 NEC 300.22. Firestop penetrations per 2017 NEC 300.21. Secure and support equipment per 2017 NEC 300.11.

Legibly identify each breaker or switch for it's use or purpose on the circuit directory in the panel/switchboard per 2017 NEC 408.4.



**POWER PLAN**

SCALE: 1/8"=1'-0"

GENERAL NOTES:

- A. NEW AND RELOCATED ITEMS SHOWN AS BOLD
- EXISTING ITEMS SHOWN AS LIGHT

**DETAIL NOTES**

- NEW/RELOCATED FIRE ALARM DEVICE, SEE FIRE ALARM GENERAL NOTES.
- PROVIDE HOSPITAL-GRADE RECEPTACLES FOR ALL DEVICES IN EXAM ROOMS. ALL BRANCH CIRCUITS IN THIS AREA SHALL BE RUN ENTIRELY IN EMT CONDUIT IN ORDER TO UTILIZE CONDUIT AS REDUNDANT GROUND PER CODE REQUIREMENTS OR PROVIDE GREEN HOSPITAL-GRADE ACMC CABLE FOR REDUNDANT GROUND. PROVIDE GFCI DEVICES THROUGHOUT. PROVIDE EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT.
- E.C. TO ENSURE RECEPTACLES WITHIN 6" OF SINK EDGE HAVE ACCESSIBLE GFCI PROTECTION. PROVIDE IF NEEDED.
- RE-CIRCUIT EXISTING RECEPTACLE AS SHOWN.

Provide emergency illumination equipment that complies with 2017 NEC 700.12 (F) or 2017 NEC 700.

Suspended ceiling systems and the luminaires they support shall meet the requirements of 2017 NEC 410.36(B).

After hours inspection to verify required egress illumination may be required during field inspection. 2015 IBC 1006.



**LIGHTING PLAN**

SCALE: 1/8"=1'-0"

GENERAL NOTES:

- A. NEW AND RELOCATED ITEMS SHOWN AS BOLD
- EXISTING ITEMS SHOWN AS LIGHT

**DETAIL NOTES**

- CONNECT TO LOCAL LIGHTING CIRCUIT (AND CONTROLS, AS APPLICABLE), E.C. TO VERIFY NO MORE THAN 70% LOAD ON A SINGLE 277V LIGHTING CIRCUIT.
- EXISTING EMERGENCY LIGHTING COULD NOT BE DETERMINED AT TIME OF FIELD SURVEY. E.C. TO VERIFY EXISTING EM LIGHTING MEETS OR EXCEEDS CODE REQUIREMENTS. PROVIDE ADDITIONAL EM LIGHTING IF NEEDED.
- NEW 18-CELL PARABOLIC 2x4 FLUORESCENT GRID TROFFER TO MATCH EXISTING IN SUITE. E.C. TO COORDINATE WITH P.M. PRIOR TO ORDERING.
- NEW 2x2 8-CELL PARABOLIC FLUORESCENT GRID TROFFER TO MATCH EXISTING IN SUITE. E.C. TO COORDINATE WITH P.M. PRIOR TO ORDERING.
- E.C. TO CLEAN/REPAIR/REBALLAST/RELAMP EXISTING/RELOCATED FIXTURES AS NECESSARY TO PROVIDE A LIKE-NEW APPEARANCE.

SUPPLIED FROM: PANEL "L4A" (EXISTING) VOLTAGE 120 / 208 V 3 Ø 4 W

TYPE	DESCRIPTION	BKR	CIR	LOAD (VOLT AMPS)/PHASE	PHASE	CIR	BKR	DESCRIPTION	TYPE	
R	ROOF RECP	20	1	540	500	2	20	DWN LTS STE 400	L	
R	SPARE	20	3		1000	500	4	20	DWN LTS STE 400	L
R	CORE RECP	20	5		720	500	6	20	DWN LTS STE 400	L
G	WTR FNTN	20	7	500	500	8	20	DWN LTS STE 400	L	
R	TELE RECP	20	9		360	500	10	20	DWN LTS STE 400	L
R	EXAM RM STE 400	20	11		900	540	12	20	DIRECTORY	R
R	EXAM RM STE 400	20	13	900	900		14	20	RECS STE 400	R
R	EXAM RM STE 400	20	15		900	1080	16	20	RECS STE 400	R
R	CAST RM STE 400	20	17		900	1080	18	20	RECS STE 400	R
R	CAST RM STE 400	20	19	540	250		20	20	BTHRM EF	M
R	EXAM RM STE 400	20	21		1080	720	24	20	RECS STE 400	R
R	EXAM RM STE 400	20	23		1080	720	24	20	RECS STE 400	R
R	EXAM RM STE 400	20	25	900	1080		26	20	RECS STE 400	R
R	RECS STE 400	20	27		900	1080	28	20	RECS STE 400	R
R	RECS STE 400	20	29		900	180	30	20	DED REC STE 420	R
G	XRAY CCT STE 400	20	31	500	1080		32	20	RECS STE 400	R
G	XRAY CCT STE 400	20	33		500	360	34	20	SWTCH STE 400	R
G	FILM PROC STE 400	30	35		1500	1200	36	20	VNDNG STE 400	K
G	FILM RM STE 400	20	37	1500	180		38	20	DED REC STE 420	R
R	FILM RM STE 400	20	39		360	1080	40	20	FURN STE 400	R
M	EF-1	20	41		250	1080	42	20	FURN STE 400	R

LOAD TYPE	A	B	C	ALL PHASES	DEMAND KVA	A	B	C	ALL PHASES	
LIGHTING	1.4	1.0	0.5	2.9	125%	1.8	1.3	0.6	3.6	
RECEPTACLE (10KVA OR LES)	3.3	3.3	3.3	10.0	100%	3.3	3.3	3.3	10.0	
RECEPTACLE (OVER 10KVA)	16.4	19.2	22.3	57.9	50%	8.2	9.6	11.2	29.0	
HVAC/MOTOR	1.3	2.0	2.2	5.4	100%	1.3	2.0	2.2	5.4	
MOTOR(LARGEST)	0.0	0.0	0.0	0.0	125%	0.0	0.0	0.0	0.0	
KITCHEN EQUIPMENT	4.6	5.4	5.6	15.6	100%	4.6	5.4	5.6	15.6	
MISCELLANEOUS	4.0	1.3	1.5	6.8	100%	4.0	1.3	1.5	6.8	
TOTAL KVA	31.0	32.1	35.5	98.6		TOTAL KVA	23	23	70.4	
WITH GROUND BUS						TOTAL AMPS	193	190	204	195.3

LEGEND L= LIGHTING R= RECEPTACLE M= HVAC / MOTOR K= KITCHEN G= MISCELLANEOUS  
MAX PERCENT DIFFERENCE BETWEEN PHASES (A,B,C): 12%

1. CIRCUIT REVISED THIS CONTRACT.

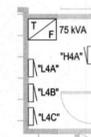
SUPPLIED FROM: PANEL "L4B" (EXISTING) VOLTAGE 120 / 208 V 3 Ø 4 W

TYPE	DESCRIPTION	BKR	CIR	LOAD (VOLT AMPS)/PHASE	PHASE	CIR	BKR	DESCRIPTION	TYPE	
R	DED REC STE 420	20	1	180	1000	2	20	COPY STE 400	R	
R	RECS STE 420	20	3		1260	900	4	20	FURN STE 400	R
R	RECS STE 420	20	5		1260	1260	6	20	RECS STE 420	R
R	RECS STE 400	20	7	900	900	8	20	RECS STE 400	R	
R	RECS STE 400	20	9		900	500	10	20	EMG STE 450	G
R	RECS STE 400	20	11		900	900	12	20	EXAM REC STE 450	R
R	RECS STE 420	20	13	1080	900		14	20	EXAM REC STE 450	R
R	RECS STE 420	20	15		1080	900	16	20	RECS STE 450	R
R	RECS STE 420	20	17		1080	900	18	20	RECS STE 450	R
1.2	SPARE	20	19	0	900		20	20	EXAM REC STE 450	R
R	COPY STE 400	20	23		1000	900	24	20	RECS STE 450	R
R	RECS STE 400	20	25	900	200		26	20	VIEW BOX STE 450	L
R	FURN STE 400	20	27		900	1000	28	20	COPY STE 450	R
R	FURN STE 400	20	29		900	900	30	20	RECS STE 450	R
R	COPY STE 400	20	31	1000	360		32	20	TELE TRM STE 450	R
R	RECS STE 400	20	33		900	900	34	20	RECS STE 450	R
R	RECS STE 400	20	35		900	900	36	20	RECS STE 450	R
M	CIR PUMP STE 400	20	37	1000	1500		38	20	EWH	K
SPARE	20	39		0	1500		40	20	SP	K
SPARE	20	41		0	0		42	20	SPARE	K

LOAD TYPE	A	B	C	ALL PHASES	DEMAND KVA	A	B	C	ALL PHASES
LIGHTING	0.4	0.0	0.0	0.4	125%	0.5	0.0	0.0	0.5
RECEPTACLE (10KVA OR LES)	3.3	3.3	3.3	10.0	100%	3.3	3.3	3.3	10.0
RECEPTACLE (OVER 10KVA)	10.3	10.8	14.2	35.3	50%	5.1	5.4	7.1	17.7
HVAC/MOTOR	1.0	2.0	2.0	4.9	100%	1.0	2.0	2.0	4.9
MOTOR(LARGEST)	0.0	0.0	0.0	0.0	125%	0.0	0.0	0.0	0.0
KITCHEN EQUIPMENT	4.6	5.4	4.4	14.4	100%	4.6	5.4	4.4	14.4
MISCELLANEOUS	1.5	0.8	0.0	2.3	100%	1.5	0.8	0.0	2.3
TOTAL KVA	21.2	22.2	23.9	67.3		TOTAL KVA	16	17	48.8
WITH GROUND BUS						TOTAL AMPS	134	140	138.1

LEGEND L= LIGHTING R= RECEPTACLE M= HVAC / MOTOR K= KITCHEN G= MISCELLANEOUS  
MAX PERCENT DIFFERENCE BETWEEN PHASES (A,B,C): 11%

1. CIRCUIT REVISED THIS CONTRACT.  
2. CIRCUIT BELIEVED TO BE SPARE UPON CONCLUSION OF WORK. E.C. TO FIELD VERIFY AND SET BREAKER TO OFF POSITION.



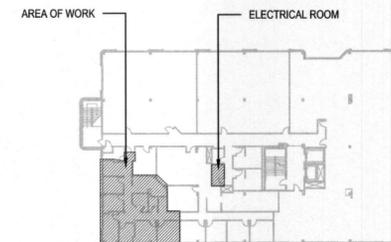
**ELECTRICAL ROOM LAYOUT**

SCALE: 1/8"=1'-0"

NO NEW WORK

GENERAL NOTES:

- A. NEW AND RELOCATED ITEMS SHOWN AS BOLD
- EXISTING ITEMS SHOWN AS LIGHT



**KEY PLAN**

**COREY**  
Electrical Engineering, Inc.  
Commercial and Transportation Design  
7825 S. Welling Ct. Suite E, Englewood, CO 80112 | (303) 686-6221 | jperkins@corey.com

1411 South Potomac Street  
Aurora, CO 80012  
Suite 420



**Lynn Institute**

**Dates of Record**

Project Start Date: 13 June 2017

Issued On: Issued For:  
10 November 2017 Tenant's Review & Approval, and Construction



City of Aurora Building Division  
Reviewed for Code Compliance  
Approved as Noted: **W. Griffin**  
Date: **Feb 21, 2018**  
2015 INTERNATIONAL CODES & 2017 NEC

RSN: 1268800  
Permit #: 18-1420046 TF

Sheet Contents

ELECTRICAL PLANS

Project Team  
Project Manager  
Sheet Mark

EM.SLS

17448

**E.1**

