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RSN:1594223 | PERMIT# 2021-2083670-LT

ADCA Remodel & Expansion

Abbreviations

Ø	diameter
℄	centerline
A	ampere
A/C	air conditioning
A/V	audio/ visual
ADA	Americans with Disabilities Act
AFF	above finished floor
alt.	alternate
amp.	ampere
approx	approximately
C.	conduit
CKT.	circuit
clg.	ceiling
clr.	clear
const.	construction
d.	depth/ deep
dia.	diameter
dim.	dimension
DN	down
DW	dishwasher
E	existing (*device or fixture to remain*)
Elev.	elevator
eq.	equal
EWC	electric water cooler
EWH	electric water heater
F.D.	floor drain
F.E.	fire extinguisher
F/A	fire alarm
FEC	fire extinguisher cabinet
FHC	fire hose connection
fin.	finish *or* finished
ga.	gauge
gyp. bd.	gypsum board
h.	height/ high
H.C.	hollow core
H.M.	hollow metal
HVAC	heating, ventilating, air conditioning
I.F.	inside face
I.T.	information technology
Jan.	janitor(s')/ janitorial
J-Box	junction box
l.	length/ long
mfd.	manufactured
mil	millimeter
min.	minimum *or* minute (*per context*)
mm	millimeter
mw	microwave
N	new (*device or fixture*)
NIC	not in contract
nom.	nominal
NTS	not to scale
o.c.	on center
O.H.	opposite hand
Occ.	occupants
oz.	ounces
P.Lam.	plastic laminate
R	relocated (*device or fixture*)
R.O.	rough opening
Re:	refer to:
reqd.	required
R/A	return air
RM.	room
RSF	Rentable Square Feet
S.C.	solid core
S.M.	surface mounted
S.Stl.	stainless steel
S/A	supply air
SDT	static dissipative tile
SF	square feet
sim.	similar
sq.yd.	square yard
std.	standard
T.O.	throughout
TBD	to be determined
th.	thickness/ thick
typ.	typical
U.L.	Underwriters Laboratory
UNO	unless noted otherwise
USF	Usable Square Feet
V.	volt
VCT	vinyl composition tile
VIF	verify in field
w.	width/ wide
W.S.	work station
w/	with
WC	wallcovering
WF	water fountain

Reference Symbols

- 1 — Keyed Note
- ℄ — Center Line
- # A1.0 — Detail Reference; Detail Number Sheet Reference
- # A1.0 — Section Reference; Section Number Sheet Reference
- # A1.0 — Elevation Reference; Elevation Number Sheet Reference
- 001 — Door Reference Tag, refer to Door Schedule
- PL1 — Plastic Laminate Reference, Refer to Finish Treatment Schedule
- P1 — Wall Treatment Reference, Refer to Finish Treatment Schedule
- C1 / RB1 — Floor Treatments Reference, Refer to Finish Treatment Schedule

General Notes

1. **GENERAL STANDARDS**: All work defined herein shall be constructed in accordance with the approved drawings and specifications and shall be in compliance with all applicable codes, ordinances, and regulations. Work performed in the shop or on-site shall be performed by mechanics, craftsmen and workers skilled and experienced in the fabrication and installation of the work involved. The work shall be performed in accordance with the best established practices of the industry standard for the trade involved.

2. **FEES AND PERMITS**: The General Contractor shall obtain all licenses and permits required by the jurisdiction and/or its agencies, not withstanding licenses and permits that may be required of respective subcontractors. The cost of said licenses and permits shall be incurred by that contractor responsible for the procurement of same.

3. **DRAWINGS AND SPECIFICATIONS**: The General Contractor shall maintain a complete and current set of project documents, drawings and specifications on the job site at all times and shall include all approved shop drawings and submittals. The General Contractor shall be responsible for distribution of adequate copies of all drawings and specifications to all applicable trades. Upon completion of the work, the General Contractor shall submit one complete set of red-lined drawings to TPS indicating any and all changes, omissions, or modifications made.

4. **ENGINEERED DRAWINGS**: Refer to structural, mechanical, electrical and plumbing drawings (when provided) for detailed design of the structural, mechanical, electrical, and plumbing systems. Portions of this work may be shown on the architectural drawings for reference to, and in coordination with, other work.
   - 4.1. When indicated on the drawings, the General Contractor shall provide engineering drawings on a design/build basis for mechanical systems, electrical systems and plumbing. Provide one copy of all drawings to TPS for review prior to construction.
   - 4.2. The General Contractor is responsible for required permits and approvals necessary for the work as described above. Precedence: the architectural drawings shall precede the engineered drawings (if provided) relative to device and fixture locations.

5. **OMISSIONS AND DISCREPANCIES**: The General Contractor shall field verify all conditions and dimensions shown on the drawings, and shall notify TPS of any discrepancies, omissions or conflicts prior to commencing with construction.

6. **MATERIALS**: Unless otherwise specified, all materials shall be new, unused, and in compliance with the specifications set forth in these documents. All materials used throughout the project shall be of the same brand name and quality for consistency. All materials must meet the ASTM and ANSI standards and be in compliance with all applicable codes, ordinances and regulations. Unless authorized in writing by the owner or its representative, no existing fixture, device or component shall be removed from adjacent areas or buildings to facilitate this project.

7. **MATERIAL INVENTORY**: Upon award of the construction contract, and when building materials are stocked and made available for the project, coordinate with the Building Representative for purchase of materials. All materials shall be bid as if new. Do not assume use of materials from building stock.

8. **SUBMITTALS/DEVIATIONS**: No substitutions, variations and deviations from these documents shall be permitted without prior approval of TPS, the Building and/or Tenant's Representative. Application for any substitutions and/or variations shall be submitted to TPS by the General Contractor for approval. Application shall be made in writing accompanied with product specifications and/or samples. Five complete sets of submittals are required.

9. **SHOP DRAWINGS**: When requested on the drawings, the General Contractor shall prepare, review, approve and submit shop drawings to TPS. The General Contractor shall check and coordinate all product data and samples and verify all materials, field measurements and related field construction criteria contained in such submittal conforms to the requirements of the work, and the contract documents. Five complete sets of submittals are required.

10. **SUBCONTRACTORS**: The General Contractor shall coordinate and review the work of all subcontractors, trades and suppliers, and to make known all requirements of the contract documents, and to assure that all parties are fully aware of the requirements, regardless of whether the requirements occur in the contract documents, which might affect the work of that party. Subcontractors shall conform to the following:
    - 10.1. Subcontractors shall coordinate all installations, schedules, locations, decisions, sizes, and resolve all conflicts and interferences of their trade with other trades.
    - 10.2. Subcontractors shall be responsible for coordinating routes of water, sprinkler, mechanical and electrical services.
    - 10.3. Light fixtures/ fittings, diffusers/ ducts, sprinkler heads, etc. as depicted on the drawings, both above and below the ceiling, which conflict with any existing services shall be reported immediately when it becomes apparent that a conflict will prevail. All costs incurred by the General Contractor or other subcontractors for failure to report conflicts immediately shall be borne by the contractor.

11. **TENANT VENDORS**: The General Contractor shall be responsible for coordinating with the Tenant and the Tenant's vendors for scheduling and providing access to the space for the Tenant's movable partition systems, communications/ data processing systems, security systems, and audio/ video systems.

12. **INSPECTIONS**: the General Contractor shall permit and facilitate inspection, by the owner and the architect or their representatives, during the course of construction.

13. **TENANT RESPONSIBILITIES**: Unless specified otherwise in the contract documents, the following items are not a part of these drawings and if so desired shall be provided by the Tenant.
    - 13.1. Furnishings, files and accessories
    - 13.2. Portable or movable office partitions
    - 13.3. Racks, bins, prefabricated shelving systems
    - 13.4. Coffee makers, microwaves, refrigerators, vending machines
    - 13.5. Copy/fax equipment and computer equipment
    - 13.6. Security systems, sound systems, intercom systems
    - 13.7. Telephone equipment including wiring/cabling
    - 13.8. Clocks, time clocks
    - 13.9. Connection of all equipment, furnishings and panels
    - 13.10. Moving or relocation of Tenant's furnishings, fixtures, and equipment
    - 13.11. Schedule and coordination of Tenant vendors

14. **PROTECTION**: The General Contractor shall protect the work, adjacent space/property, common areas, public utilities, and the public, and shall be responsible for any damage or injury due to neglect. Protection shall include but not be limited to the following:
    - 14.1. Draw window coverings and wrap or bag with plastic for dust protection.
    - 14.2. Provide plywood or masonite floor protection with tape sealed joints completely along routes used for delivery and removal of materials.
    - 14.3. Provide and/or use protective pads at designated freight elevator cab walls and around openings.
    - 14.4. When necessary, x-ray the floor slab to confirm locations of objects embedded in the concrete prior to making any penetrations in the slab.

15. **DAMAGES**: Should the General Contractor or any associated subcontractor cause damage to any adjacent fixture or structure while completing or cleaning current construction, that contractor or subcontractor shall be responsible for repair or replacement of said damaged fixture or structure.

16. **INSURANCE**: The General Contractor shall purchase and maintain certifications of insurance with respect to workers compensation, public liability and property damage for the limits as required by law. The certificates shall name the client and Tenant Planning Services, Inc. as additional insured. The General Contractor and subcontractors performing work on-site shall conform to the Landlord's insurance requirements.

17. **GUARANTEE/WARRANTY**: The General Contractor shall enforce a specific and unconditional warranty on all materials, workmanship, equipment, fixtures and sub-assemblies subject to normal use and maintenance for a period not to exceed one (1) year from date of substantial completion. Said warranty shall not be exclusive of implied or specific warranties enforced by manufacturers and/or suppliers of aforementioned materials, equipment, fixtures and/or sub-assemblies.

18. **SECURITY**: The General Contractor shall be responsible for securing and controlling access to the job site during construction and for disconnecting power and lighting when not in use.

19. **INTERRUPTION OF SERVICES**: All work requiring dangerous, toxic, or noisy operations and installations which might affect the operation of the existing tenants shall be performed during non-business hours. Coordinate with Building Management.

20. **HAZARDOUS MATERIALS**: TPS has no knowledge of, and shall not be held liable for, any asbestos or other hazardous materials on the project site. Prior to commencing with the work on-site, it shall be the responsibility of the General Contractor to inspect and make a good faith effort to identify the presence of asbestos, toxic or other hazardous materials. Should hazardous materials be discovered at any time before or during construction, stop the work immediately and report to the Building Management for further instructions before proceeding.

21. **BUILDING RULES AND REGULATIONS**: The General Contractor shall be responsible for consulting with the Building Representative for rules and regulations governing the building and pertaining to deliveries, removal of materials and debris, use of building facilities, noise restrictions, protection of existing conditions, hours of operation, building access, etc.

22. **CLEANING**: The General Contractor shall clean the job site and adjoining areas during construction and upon completion. Cleaning includes, but is not limited to, vacuuming carpets; wet mopping floor tile and other resilient flooring; cleaning all glass, including interior side of exterior glazing; dusting and wiping clean all lint and soiled areas on doors, millwork, window coverings, baseboard, etc.; removing all construction debris, scraps, materials and equipment; and water seal all marble, granite and ceramic tile and grout.

23. **FIRE RESISTIVE STANDARDS**: Conform to the following:
    - 23.1. Materials and assemblies required to be fire resistive shall bear a label affixed to the product indicating fire resistive rating and testing agency with approved test certification number
    - 23.2. All blocking and nailer strips used in connection with fire resistive partitions shall be fire retardant wood as defined by the Building Code.
    - 23.3. All concealed wood shall be treated with an approved fire retardant.
    - 23.4. Fire ratings of existing materials and/or systems which may become damaged or modified due to the work shall be maintained with a fire rating equal to or greater than the existing rating.
    - 23.5. All pipe and conduit penetrations in fire rated partitions and floors/ceilings shall be sealed in accordance with a U.L. listed "fire stop" compatible with the material and fire rating required.
    - 23.6. Flame-spread: minimum ratings for flame spread shall be as follows:
      - 23.6.1. Enclosed vertical exit ways: Class I (0-25 F.S.I.)
      - 23.6.2. Other exit ways: Class II (26-75 F.S.I.)
      - 23.6.3. Rooms or areas: Class III (76-200 F.S.I.)

24. **ARCHITECTURAL WOODWORK**: Provide architectural woodwork as specified on the drawings. The "quality standards" of the architectural woodwork institute shall apply and hereby made a part of this document. All prefabricated work shall be economy grade. All other work shall be custom grade as defined by the quality standards of the AWI, unless noted otherwise.

25. **SURFACE PREPARATION**: Inspect existing conditions of all floor and wall surfaces for voids, holes, cracks, and other damages and make repairs. Grind and/or fill imperfections, fill holes, cracks, and other damages prior to installation. **The General Contractor shall provide budget for floor prep as required. The General Contractor shall provide RH moisture testing for any concrete locations less than one year old and for all slab on grade (regardless of age) locations.**

26. **CLEARANCES**: The General Contractor shall verify ceiling height and clearances above ceiling to the underside of structure above for installation of ductwork and diffusers; conduits and junction boxes; fire sprinkler pipes and heads; and light fixtures. All work shall be coordinated by all trades to avoid interference with methods of installation. Notify TPS of conflicts immediately and prior to commencing with construction.

27. **FIRE SPRINKLER SYSTEM**: In buildings equipped with fire sprinkler systems, furnish all labor, materials, fixtures, trim, equipment and services necessary for the installation of a complete and properly functioning fire sprinkler system. All work shall conform to the following:
    - 27.1. Relocate and/or add fire sprinkler heads as required for new conditions as shown on the drawings.
    - 27.2. Rework and/or add to existing pipes, fittings, hangers and support as necessary for new sprinkler head locations.
    - 27.3. Design standards, materials and workmanship shall be compatible with existing conditions.
    - 27.4. Install new sprinkler head locations in the center of the ceiling board or section and symmetrical throughout rooms and open areas.

28. **FIRE EXTINGUISHERS:** Provide portable, wall mounted fire extinguishers every 75' of exit travel distance throughout limit of construction or as required by the local fire department or life safety department. Portable fire extinguishers shall comply with NFPA 10.

29. **PLUMBING SYSTEM**: Furnish all labor, materials, fixtures, trim, equipment and services necessary for the installation of a complete and properly functioning plumbing system. All work shall conform to the following:
    - 29.1. Refer to drawings for specific information pertaining to materials, fixtures, etc. scheduled as new and not contained herein.
    - 29.2. Re-use existing plumbing piping and/or fixtures and components where possible. Inspect and confirm existing conditions are within specifications.
    - 29.3. New materials shall be compatible with existing conditions, where possible.
    - 29.4. Provide fixtures with all anchors, supports, traps and trim, for a complete installation.
    - 29.5. Provide stop valves on all hot and cold water connections to fixtureSF
    - 29.6. Caulk around all fixtures with silicone based caulking compound.
    - 29.7. Install all fixtures level and square with surrounding enclosures.
    - 29.8. Install escutcheons for all pipes exposed to view passing through walls, floors and ceilings.
    - 29.9. Provide templates or cut-outs of fixtures to the millwork subcontractor for cutting of openings.
    - 29.10. All materials and workmanship shall be in compliance with state and local codes and ordinances, and the Americans with Disabilities Act (ADA).

30. **HVAC SYSTEM**: Furnish all labor, materials, fixtures, trim, equipment and services necessary for the installation of a complete and properly functioning HVAC system. All work shall conform to the following:
    - 30.1. Standards: all standards and specifications established in the base building construction documents, or as evidenced in the existing conditions of construction shall govern, unless noted otherwise. All work shall be coordinated with the building maintenance manager. Refer to base building construction documents and specifications and existing conditions of system for equipment or materials not specified on the engineered drawings or contained herein. All materials and workmanship shall be in compliance with ASHRAE and SMACNA, state and local codes and ordinances, and the Americans with Disabilities Act (ADA).
    - 30.2. Repairs and replacement: the contractor shall verify proper operation of existing ductwork for breaks and leaks. In the event that the contractor has observed system failure or defects, notify the Owner's construction manager immediately for further direction. For bid purposes, it shall be assumed that all HVAC equipment and associated ductwork and components are in proper operating condition. Repairs or replacement of materials and workmanship shall be performed as a separate portion of the work.
    - 30.3. Abandoned equipment: all abandoned HVAC equipment and components within the area of construction shall be removed and all duct connections patched, capped and/or sealed.
    - 30.4. Fire dampers shall be installed in all ducts which penetrate fire resistive partitions (one-hour rated and above). Fire dampers shall be 100% free area design.
    - 30.5. Return air plenum: allow for transfer of air above Tenant demising partitions and spaces continuously and unobstructed to the building system return air shaft. Refer to engineered drawings (if provided) and detailed drawings for wall construction and opening size. During construction, the contractor shall place temporary filters over openings to the return air shaft. Remove filters upon completion of construction. Coordinate this work with the building maintenance manager.
    - 30.6. Thermostats: locate thermostats so as not to interfere with the occupants' furnishings and systems, avoiding locations in the middle of walls, in traffic areas, in file/supply rooms, etc.
    - 30.7. Air testing, adjusting, and balancing: adjust and balance terminal units, diffusers, dampers and registers to provide design condition air flow or to the air quantities shown on the drawings (if provided). Balance work shall be performed in accordance with NEBB standards by a certified contractor. Submit a balancing report to TPS. Calibrate and adjust all thermostats.

31. **FIRE/SMOKE ALARM SYSTEMS**: In buildings equipped with fire and/or smoke alarm systems, furnish all labor, materials, fixtures, trim, equipment and services necessary for the installation of a complete and properly functioning fire/smoke alarm system. All work shall conform to the following:
    - 31.1. Relocate and/or add fire alarms, smoke or heat detectors, strobe alarms, pull stations, remote indicator lights and other components of the system as required for new conditions of the space.
    - 31.2. Rework systems to be compatible with existing design standards and conditions.
    - 31.3. Locations and specifications of alarms shall comply with the Americans with Disabilities Act (ADA).

32. **ELECTRICAL SYSTEM**: Furnish all labor, materials, fixtures, trim, equipment and services necessary for the installation of a complete and properly functioning electrical system. All work shall conform to the following:
    - 32.1. Standards: all standards and specifications established in the base building construction documents, or as evidenced in the existing conditions of construction shall govern, unless noted otherwise. All work shall be coordinated with the building maintenance manager. Refer to base building construction documents and specifications and existing conditions of system for equipment or materials not specified on the engineered drawings or contained herein.
    - 32.2. All materials and workmanship shall be in compliance with the national electric code (NEC), state and local codes and ordinances, and the Americans with Disabilities Act (ADA).
    - 32.3. Repairs and replacement: the contractor shall verify proper operation of existing panels and switch-gear. In the event that the contractor has observed system failure or defects, notify the Owner's construction manager immediately for further direction. For bid purposes, it shall be assumed that all equipment and associated components are in proper operating condition. Repairs or replacement of materials and workmanship shall be performed as a separate portion of the work.
    - 32.4. Panels: provide new typed panel circuit directory for each panel affected.

SEPARATE FIRE SPRINKLER PERMIT REQUIRED: Due to the proposed work the general contractor is required to obtain the services of a fire sprinkler contractor to determine if a separate sprinkler permit is required. If it is determined that the spacing of the fire sprinkler heads is not in compliance, then a separate fire sprinkler permit is required. Approval of the documents is required prior to system installation or any request for inspection. A certificate of occupancy or final approval cannot be issued by the Building Division without this fire protection system. **2015 IFC, Section 105.7.1.**

SEPARATE FIRE ALARM PERMIT REQUIRED: Due to the proposed work the general contractor is required to obtain the services of a fire alarm contractor to determine if a separate alarm permit is required. If it is determined that the spacing of the fire alarm devices is not in compliance, then a separate fire alarm permit is required. Approval of the documents is required prior to system installation or any request for inspection. A certificate of occupancy or final approval cannot be issued by the Building Division without this fire protection system. **2015 IFC, Section 105.7.6.**

Emergency Responder Radio Coverage: All New Commercial Buildings; Additions to Existing Buildings; Shall have approved radio coverage for emergency responders within the building. This building must be assessed to determine adequate in-building radio coverage at time of final frame and electrical inspection by a qualified 3rd party inspection service at the owner/developers expense. Lack of adequate in-building radio coverage may delay the issuance of a Certificate of Occupancy. Where the structure is found deficient a separate permit is required to install, repair or modify any Emergency Response Radio Coverage system. **Per 2015 IFC, Section 510.**

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. 2015 IBC 105.4.

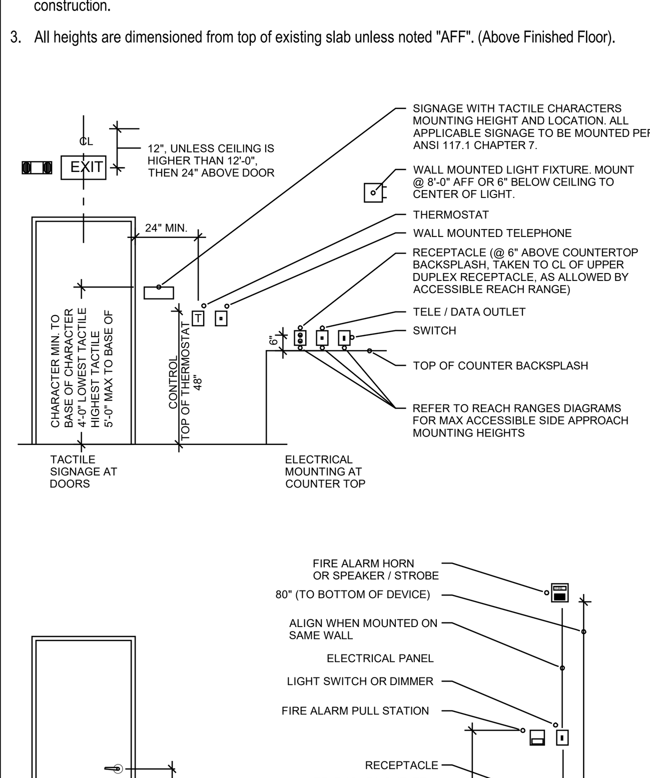
Structural plan review is limited to a general survey for code compliance. No review is implied nor was undertaken to verify structural adequacy.

Definitions

- **Approve**: where used in conjunction with TPS's or its consultant's response to submittals, requests, applications, inquiries, reports and claims by the contractor, the meaning of the term 'approved' will be held to the limitations of TPS's responsibilities and duties as specified in the general conditions and supplementary conditions. In no case will 'approved' by TPS be interpreted as an assurance to the contractor that the requirements of the contract documents have been fulfilled.
- **Furnish**: except as otherwise defined in greater detail, the term 'furnish' is used to mean to supply and deliver to the project site, ready for unloading, unpacking, assembly and installation, etc. as applicable in each instance.
- **Install**: except as otherwise defined in greater detail, the term 'install' is used to describe operations at the project site including unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finish, curing protection, cleaning and similar operations, as applicable in each instance.
- **Provide**: except as otherwise defined in greater detail, the term 'provide' means to furnish and install, complete and ready for the intended use as applicable in each instance.
- **Products**: defined as products which must be substantially cut, shaped, worked, mixed, furnished, refined otherwise fabricated, processed, installed or applied to form units of work.
- **Equipment**: defined as products with operational parts, regardless of whether motorized or manually operated, and particularly including connections (wiring, piping, etc.).
- **Typical**: 'typical' or 'typ' means identical for all similar conditions.
- **Similar**: 'similar' or 'sim' means comparable to characteristics for the condition noted. Verify dimensions and orientation on plan.
- **As required**: 'as required' means as required by regulatory requirements, by referenced standards, by existing conditions, by generally accepted construction practice, or by the contract documents.
- **Align**: 'align' means accurately locate finish faces of materials in same plane.
- **Relocate**: means to reuse a particular device, fixture, or item in a new location.
- **Remain**: to continue unchanged.
- **Reused**: to use again especially in a new way or in a new location.

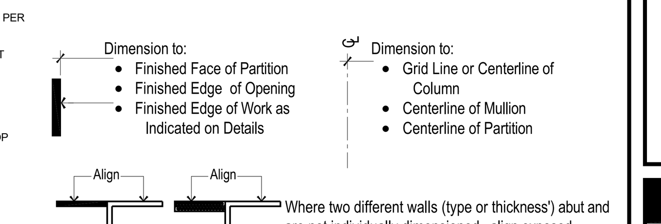
Dimensional Conventions

1. Except where directed to place items of the work at the "approximate location shown," do **not** scale drawings for dimensional information. All elements of the drawings **may** not be drawn to exact scale. All dimensions required are shown, or may be derived from those shown on the floor plans, detail plans, elevations, sections, details, schedules, and specifications. See notes on this sheet and symbols on the "Architectural Symbols" drawing for dimensions conventions used on this project.
2. Do not scale drawings; dimensions shall govern, details shall govern over plans and elevations. Large scale plans shall govern over small scale plans. Large scale details shall govern over small scale details. If unable to locate dimensions for any item of work, consult the Architect prior to construction.
3. All heights are dimensioned from top of existing slab unless noted "AFF". (Above Finished Floor).



NOTES:
1. ALL DIMENSIONS ARE TO TOP OF DEVICE BOX, UNLESS NOTED OTHERWISE.
2. INSTALL ALL REQUIRED SIGNAGE IN ALL REQUIRED LOCATIONS PER NCSBC 1110 & ANSI

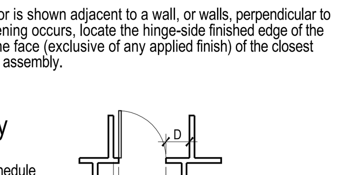
4. Dimensions are not adjustable, unless noted (+/-), without TPS' written approval.
5. Except where specifically noted to the contrary, all dimensions shown on the architectural drawings conform to the following conventions:
   - A. Dimensions utilizing the "centerline" symbol are measured to:
     - Structural or dimensional grid lines.
     - Centerline of wall or partition assemblies, exclusive of any applied finish having thickness
     - Centerline of door, window, cased opening and window mullion.
   - B. Dimensions typically utilized are to the face of finished wall and are measured to:
     - Face of finished wall
     - Inside edge of finished door opening. Refer to "door schedule" for additional information.
     - Finish faces at the most narrow or constricted points of the section where dimension is shown when the dimension occurs across an open space. In this case, a "face of finish" dim is equivalent to a "clear" dimension.



6. Where dimensions are not provided on the floor plans to locate door openings, apply the following rules, in order, to determine the location of door openings.
   - A. Door openings may be dimensioned on drawings other than the floor plans. Refer to the sections, elevations, details, and door schedule notes for additional dimensional information.
   - B. Where the hinge-side of a door is shown adjacent to a wall, or walls, perpendicular to the wall in which the door opening occurs, locate the hinge-side finished edge of the door opening 4 inches from the face (exclusive of any applied finish) of the closest perpendicular wall or partition assembly.

Dimensional Key

- A = 4" (min.)
- B = Refer to Door Schedule
- C = 12" (min.) at Push Side
- D = 18" (min.) at Pull Side



Building Proprietary Vendors

NONE

Written Scope of Work

for West Metro projects only

Tenant finish project inclusive of demolition, framing, HVAC, electrical, plumbing and finish work. No structural work.

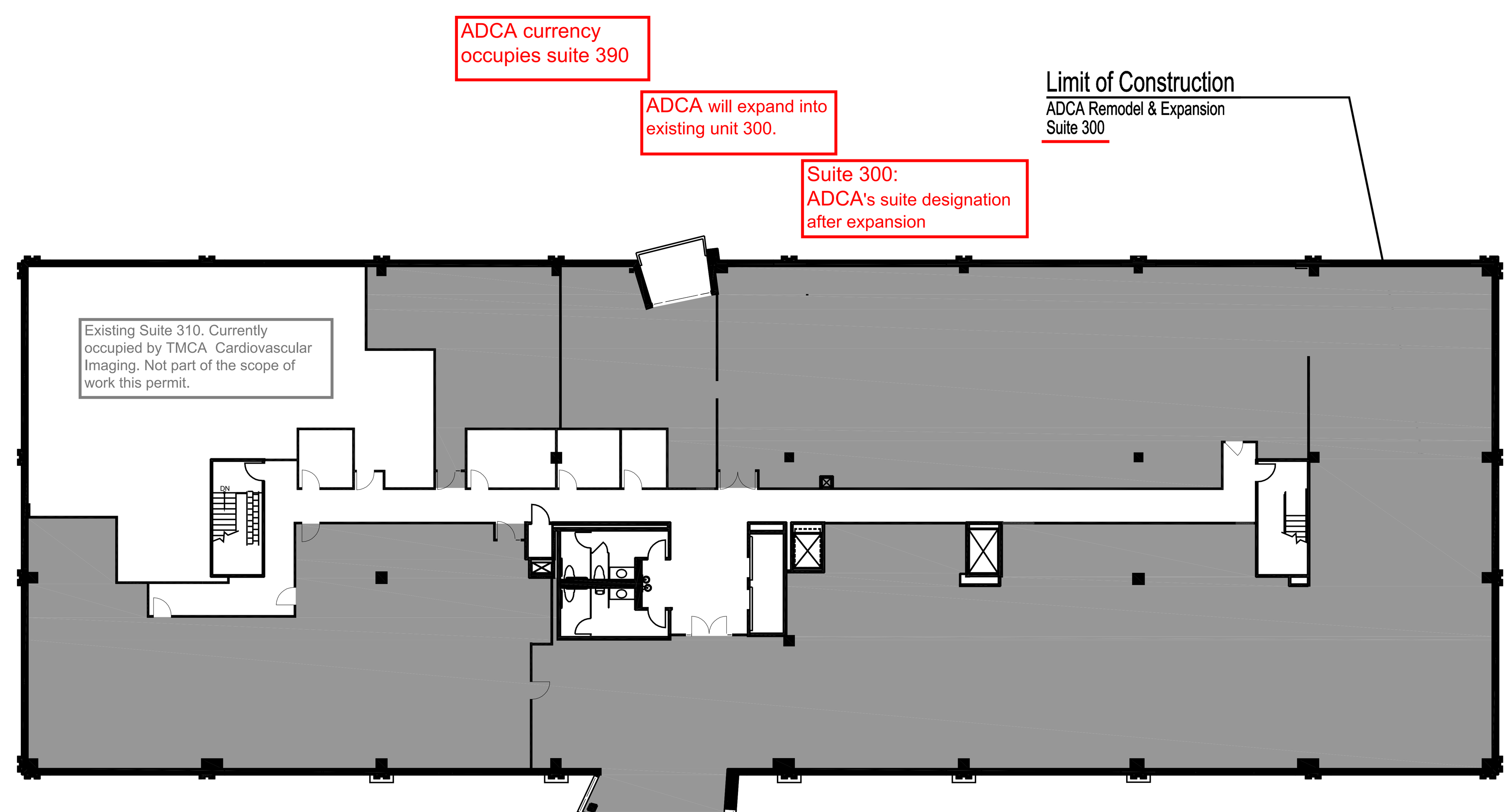
General practice, no patients will be under anesthesia or incapacitated for any period of time.

Majority of work will be a phased, occupied remodel. One small portion (first phase) will be a first generation tenant improvement.

Project Alternates

NONE

Reviewed for Certificate of Occupancy. These documents **DO** provide sufficient information for Final Inspections to be requested from all required City departments. **ALL** Final City inspections must be completed and approved.



1 Proximity Plan
Level Three
Not to Scale
North

City of Aurora Building Division
Project: *ADCA Remodel and Expansion*
Address: *1444 S POTOMAC ST Unit 300*
Occupancy Group: *IBC B*
Construction Type: *IBC TYPE II-B SPK*
RSN: *1594223*
Permit: *2021-2083670-LT*

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Dec 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

Project Team

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Contact: Roussab Rashid
Phone: 303.696.1257
email: rrashid@coreyeng.com

Drawing List

A0.0	Cover Sheet
A0.1	Egress Plan and Phasing Plan
D1.0	DemolitionPlan
D1.1	Demolition Ceiling Plan
A1.0	Construction Plan Partition Details
A1.1	Door Schedule Enlarged Restroom Plans Restroom Elevations
A2.0	Power & Communications Plan
A2.1	Reflected Ceiling Plan
A3.0	Finish Treatment Plan Finish Treatment Schedule
A3.1	Millwork Elevations
A3.2	Millwork Elevations Section Details
M1.0	Notes and Schedules
M1.1	Mechanical Plan
P1.0	Plumbing Plan and Notes
E.0	General Notes
E.1	Demolition Plan
E.2	Power Plan
E.3	Lighting Plan
E.4	One-line Diagram
E.5	Panel Schedules
E.6	Comcheck

Approvals

☒ Issued For Construction
☐ Preliminary - Not Issued for Construction

Construction Document Approval

Construction work shall not proceed until the Owner and the intended occupant have given approval to these Construction Documents. Approval by these parties shall be interpreted as approval of the drawings for content, scope of work, and all dimensions regarded by either party as being necessary to their operations, use of the space, furnishings, equipment installation, and any agreements between the Owner and the intended occupant.

Construction and/or initiation of construction authorized by the Owner from these Construction Documents, shall be interpreted by the Designer as approval in full of these Construction Documents by both the Owner and intended occupant.

- ☐ Approved - No Exceptions Taken
- ☐ Approved As Noted
- ☐ Approved As Noted - Resubmit
- ☐ Revise And Resubmit

Signature ______ Date ______

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1444 South Potomac
1444 South Potomac Street
Aurora, CO 80012
Suite 300

COLORADO LICENSED ARCHITECT — JUAN GABRIEL LUNA — 400450
12.06.2021

ADCA Remodel & Expansion

Dates of Record

Project Start Date: 6 Apr 2020

Issued On	Issued For
22 Oct 2021	Tenant Review & Approval; and Construction

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428010	GBS	AC	MH	GBS/AC

A0.0

1444 South Potomac • ADCA Remodel & Expansion

RSN:1594223 | PERMIT# 2021-20836

project start date: 6 Apr 2020
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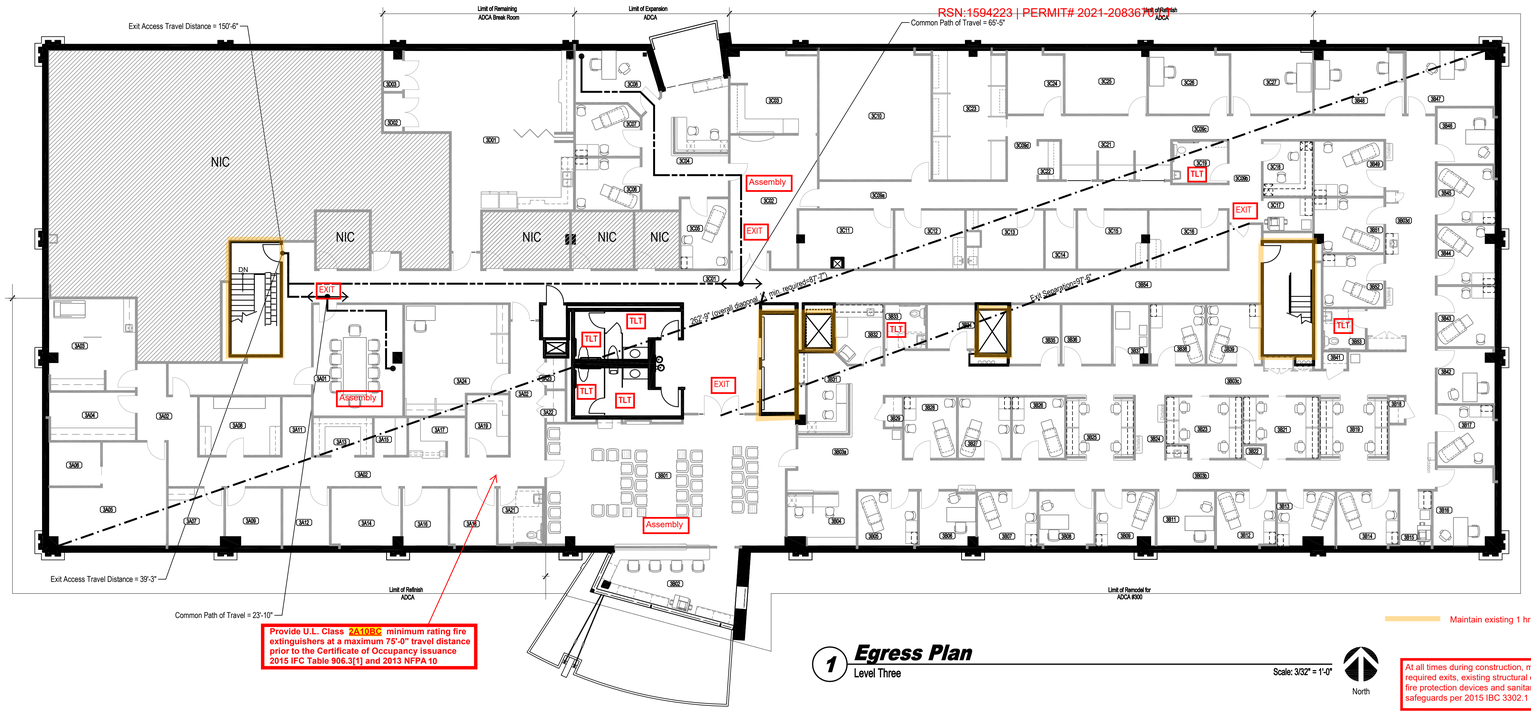
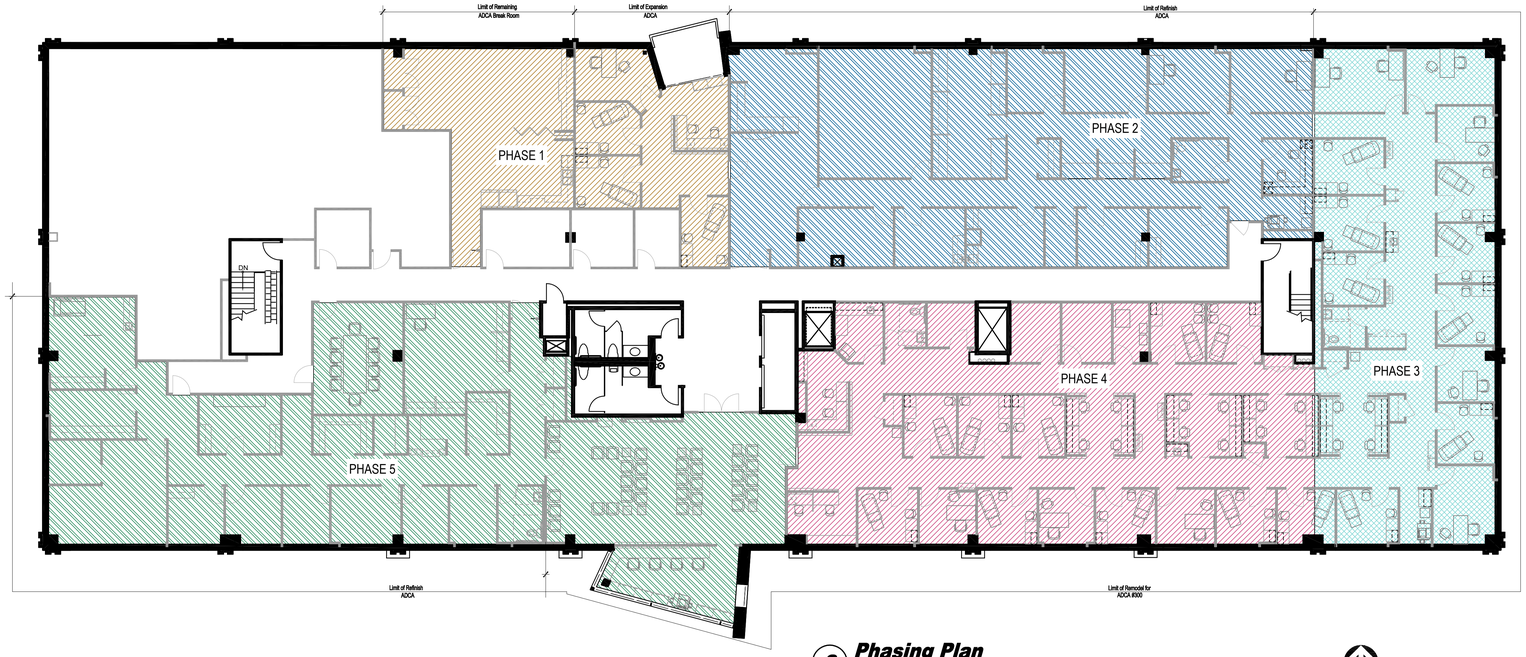


1 Egress Plan
Level Three

Scale: 3/32" = 1'-0"

North

At all times during construction, maintain required exits, existing structural elements, fire protection devices and sanitary safeguards per 2015 IBC 3302.1



2 Phasing Plan
Level Three

Scale: 3/32" = 1'-0"

North

Life Safety Legend

- Room Number
- Overall Diagonal
- Exit Separation
- Common Path Of Egress

Room Schedule

3A01	New Board Rm.	3B31	New Check-out
3A02	Exist. Hallway	3B32	New Lab
3A03	Exist. Ultrasound	3B33	New ADA Restroom
3A04	Exist. Office	3B34	New Tech Room
3A05	Exist. Med Records	3B35	New Device Check
3A06	Exist. Copy	3B36	New Device Check
3A07	Exist. Office	3B37	New Storage
3A08	Exist. Files	3B38	New Exam
3A09	Exist. Office	3B39	New Exam
3A10	-----	3B40	-----
3A11	Exist. Print Area	3B41	New Closet
3A12	Exist. Office	3B42	New Office
3A13	Exist. Work Area	3B43	New Exam
3A14	Exist. Exam	3B44	New Exam
3A15	Exist. Work Area	3B45	New Exam
3A16	Exist. Exam	3B46	New Office
3A17	Exist. Work Area	3B47	New Office
3A18	Exist. Exam	3B48	New Office
3A19	Exist. Mail Room	3B49	New Exam
3A20	-----	3B50	-----
3A21	New ADA Restroom	3B51	New Exam
3A22	Exist. Closet	3B52	New Exam
3A23	Exist. Closet	3B53	New ADA Restroom
3A24	Exist. Office	3B54	Public Corridor
3B01	Exist. Waiting	3C01	Public Corridor
3B02	New Reception	3C02	Exist. Waiting
3B03	New Hallway	3C03	Exist. Reception
3B04	New Check-out	3C04	New MA Station
3B05	New Exam	3C05	New Exam
3B06	New Office	3C06	New Exam
3B07	New Exam	3C07	New Exam
3B08	New Office	3C08	New Office
3B09	New Exam	3C09	Exist. Hallway
3B10	-----	3C10	Exist. Office
3B11	New Office	3C11	Exist. Exam
3B12	New Exam	3C12	Exist. Exam
3B13	New Exam	3C13	Exist. Exam
3B14	New Exam	3C14	Exist. I.T.
3B15	New Print Area	3C15	Exist. Exam
3B16	New Office	3C16	Exist. Exam
3B17	New Exam	3C17	New Print Area
3B18	New Closet	3C18	New Testing Rm.
3B19	New MA Station	3C19	Exist. Restroom
3B20	-----	3C20	-----
3B21	New Office	3C21	Exist. Work Areas
3B22	New Closet	3C22	Exist. Closet
3B23	New Office	3C23	Exist. Call Center
3B24	New Dictation	3C24	Exist. Exam
3B25	New MA Station	3C25	Exist. Office
3B26	New Exam	3C26	Exist. Office
3B27	New Exam	3C27	Exist. Office
3B28	New Exam	3D01	Exist. Break Rm.
3B29	New Closet	3D02	Exist. Closet
3B30	------	3D03	Exist. Closet

Sheet Keyed Notes

1. PHASING NOTE: OCCUPIED SPACES
General Contractor to coordinate:
All new work to be done shall be completed in a minimum of (5) phases. Coordinate with Tenant, Building Management, and TPS prior to commencement of work for phasing schedule and construction during business hours. Tenant shall coordinate with General Contractor on relocating staff in phased areas to accommodate the construction schedule.

Codes and Regulations

Building Profile

City/ County: Aurora / Arapahoe
Fire District:
Construction Classification: Type I1-B
Building Height / Levels: Unlimited / 4
Automatic Sprinklers Throughout

Use and Occupancy

Occupant Name: ADCA Remodel & Expansion
Occupant Use: General Business Office
Occupancy Classification: Business Group B

Tenant Area

	Existing	Expansion
(approx.) Useable SF:	14,807	14,067 740

City of AURORA

Applicable Codes

2015 IBC (International Building Code) with Amendments
2015 IEBC (International Existing Building Code)
2015 IPC (International Plumbing Code)
2015 IMC (International Mechanical Code)
2015 IFC (International Fire Code)
2015 IECC (International Energy Conservation Code)
2020 NEC (National Electric Code)
2009 ICC/ANSI A117.1 Accessibility Standard

Interpretations

Occupancy Load Analysis- Suite 300

Room Name & Number	Function Per Table 1004.1	Floor Area (SF)	Floor Area (SF/Occ)	Number of Occupants
Exist. Storage 3A22, 3A23, 3C22 New Closet 3B18, 3B22, 3B29, 3B37, 3B41 Exist. I.T. 3C14 Exist. Waiting 3B01, 3C02	Accessory storage	288	+ 300 = (gross)	1
	Assembly: unconcentrated	1,196	= 15 = (net)	80
Remainder of Suite	Business	13,323	+ 100 = (gross)	134
		14,807		TOTAL: 215

Means of Egress

	Required	Provided
Egress Width:	min. 34"	238"
Number of Exits:	min. 2	5
Common Path of Travel:	max. 100'	65'-5"
Exit Access Travel Distance	max. 300'	150'-6"

Interpretations

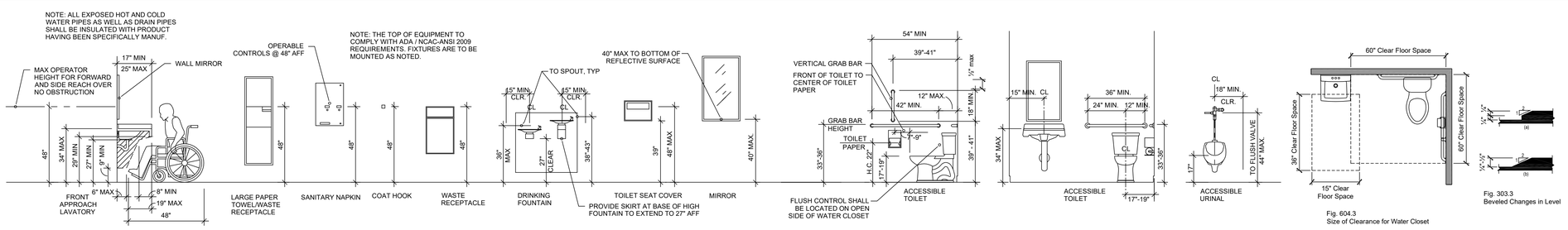
Occupancy Load Analysis- 3A01 New Board Rm

Room Name & Number	Function Per Table 1004.1	Floor Area (SF)	Floor Area (SF/Occ)	Number of Occupants
Exist. Board Rm. 3A01	Assembly: unconcentrated	298	= 15 = (net)	20
		298		TOTAL: 20

Means of Egress

	Required	Provided
Egress Width:	min. 34"	68"
Number of Exits:	min. 1	2
Common Path of Travel:	max. 100'	23'-10"
Exit Access Travel Distance	max. 300'	39'-3"

Accessible Installation Standards (n.t.s.)



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COLORADO LICENSED ARCHITECT 400450
12.17.2021

ADCA Remodel & Expansion

Dates of Record

Project Start Date: 6 Apr 2020

Issued On	Issued For
22 Oct 2021	Tenant Review & Approval; and Construction
17 Dec 2021 (Revised by AC)	Building Department Comment & Permit

Sheet Contents: Egress Plan; Phasing Plan

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428010	GBS	AC	MH	GBS/AC

A0.1

1444 South Potomac • ADCA Remodel & Expansion

RSN:1594223 | PERMIT# 2021-2083670-LT

Sheet D1.0 Plan Notes

1. **Refer to General Notes** for additional requirements.
2. **GENERAL DEMOLITION**: Demolish and remove all partitions, materials, and debris as shown on the drawings or specified otherwise herein. Removal as described shall be accomplished without storing excessive quantities of any material, rubbish, dirt, debris or waste of any kind within this demised area of construction or adjacent areas.
3. **FINISH TREATMENTS** scheduled to remain as follows: floor and wall tiles at existing restroom.
4. **FINISH TREATMENTS** scheduled to be removed are as follows: carpet, resilient flooring, base trim, wall treatments.
5. **DISPOSAL**: All existing equipment, materials and fixtures not scheduled for re-use shall remain the property of the Owner. Coordinate with the Building Representative and comply with all regulations and/or requirements pertaining to removal, salvage and storage of materials demolished as scheduled.
6. **RE-USE:** Investigate condition of all materials scheduled for demolition and not re-used on this project. Document characteristics of each material or component and submit inventory statement to Building Representative. Include characteristics such as type, color, size, quantity, physical condition and make/model number, if possible.
7. **CLEAN AND REPAIR**: Verify condition of all materials scheduled for demolition and re-use where possible. Clean and/or repair materials as needed.
8. **PREPARATION**: Unless otherwise specified, remove all existing wall coverings, floor coverings and baseboard throughout and prepare existing surfaces for new finish treatments as scheduled. The Demolition Contractor shall scrape existing adhesives to a smooth condition. Refer to finish plans and/or schedules.
9. **PATCHING**: Remove all unused sleeves through the floor slab and fill/patch all penetrations.
10. **ELECTRICAL DEMOLITION**: Existing electrical and communications/ data wiring within partitions, raceways or above the ceiling and not scheduled for re-use shall be removed entirely, including hangers, supports, terminals, conduit and junctions from source to point of termination. Maintain circuit and/or transmission continuity to remaining devices, where necessary.
11. **PIPES AND CONDUITS**: All pipes and conduit in partitions scheduled for demolition shall be removed entirely when not scheduled for re-use.
12. **ABANDONED APPARATUS**: Abandoned electrical circuits, fixtures and devices discovered by the contractor and not scheduled for re-use shall be reported to the Building Representative for further direction.
13. **TELEPHONE/DATA REMOVAL**: Unless otherwise indicated on the drawings, remove all existing telephone equipment and/or components not currently in use.

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Sheet Keyed Notes

1. CUT OPENING IN EXISTING PARTITION as required for installation of new interior door and frame assembly.
2. SALVAGE DOORS: Remove existing doors shown dashed and set aside for re-use.
3. REMOVE FLOORCOVERING & BASE trim THROUGHOUT Limit of Construction (LNO) and prepare to receive the specified finish treatments.

Demolition Legend

DEMO EXISTING. Partitions, door assemblies, electrical devices and/or millwork to be demolished/ removed (typ.). Return all millwork/ fixtures and/or door assemblies, not re-used in this limit of construction, to Building Management. Patch partitions and prepare to receive the scheduled finish treatments.
NOTE: At exterior curtain wall sill partitions (only), where power/ phone/ data devices are designated to be removed/ demolished, all conduit and J-boxes shall remain. Provide building standard blank face plates. All demolition of power/ phone/ data devices at interior partitions shall include removal of all associated conduit and J-boxes and patching/ painting of partitions.

EXISTING PARTITION TO REMAIN.

EXISTING PARTIAL HEIGHT PARTITION to remain.

EXISTING PARTITIONS TO BE REWORKED. Refer to Construction Plan

Symbol Legend

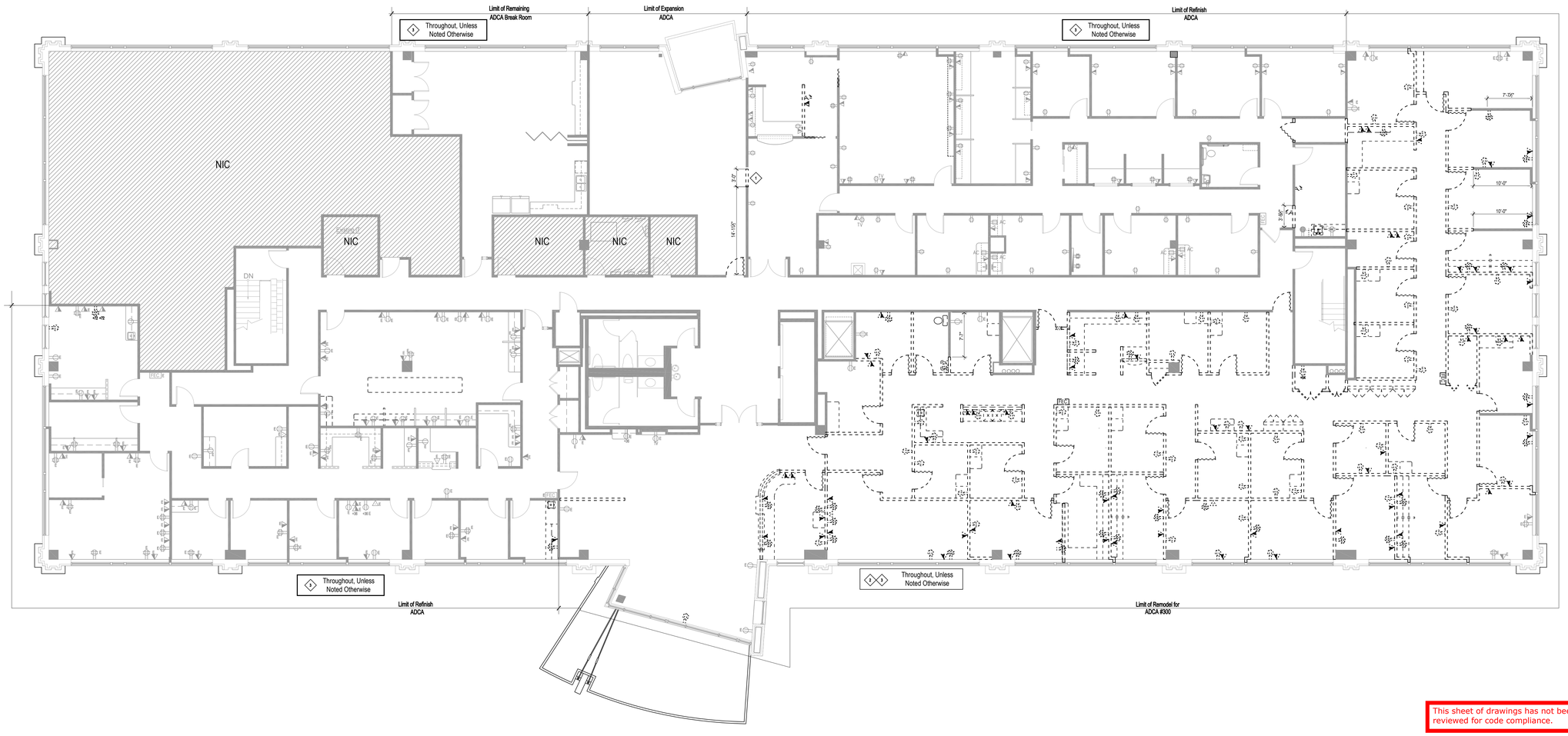
Wall Mounted Fixtures/ Devices

- Duplex electrical receptacle & face plate
- Quadplex electrical receptacle & face plate
- Duplex electrical receptacle & face plate on dedicated circuit
- Combination telephony/ data outlet rough-in (3/4"Ø conduit) w/ double gang J-box and single gang plaster ring with pull string to above finished ceiling.
- Existing J-box. Provide blank face plate
- Water supply line

Floor Mounted Devices
Where indicated as new: Coordinate conduit requirements and final location with Tenant prior to rough-in.

- Flush in-slab combined power/ phone/ data device

Refer to Engineering Drawings for complete specifications



1 Demolition Plan
Suite 300

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

North

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

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Suite 300

COLORADO LICENSED ARCHITECT 400450
12.06.2021

ADCA Remodel & Expansion

Dates of Record

Project Start Date: 6 Apr 2020

Issued On	Issued For
22 Oct 2021	Tenant Review & Approval; and Construction

Sheet Contents: Demolition Plan

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428010	GBS	AC	MH	GBS/AC

D1.0

1444 South Potomac • ADCA Remodel & Expansion

RSN:1594223 | PERMIT# 2021-2083670-LT

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Sheet Keyed Notes

1. DEMO GYPSUM BOARD HEADER where indicated. Prep ceiling to recieve new ceiling grid and tile.
2. EXISTING CEILING to remain. The suspended grid and acoustical ceiling tile system shall remain throughout (UNO). Restore existing ceiling grid to 'like new' conditions as possible. Repair, replace and/or provide new grid and/or tiles as necessary. Match existing specifications.
3. EXISTING CEILING to remain. The suspended grid and acoustical ceiling tile system shall remain at locations indicated. Clean and replace dirty or damaged tiles as necessary due to demo and new construction.
4. EXISTING GYPSUM BOARD SOFFIT/CEILING to remain. Paint touch-up as necessary.
5. REMOVE SUSPENDED CEILING where indicated. Patch, repair and/ or provide new grid and tile to match, align and run continuous with existing.

Symbol Legend

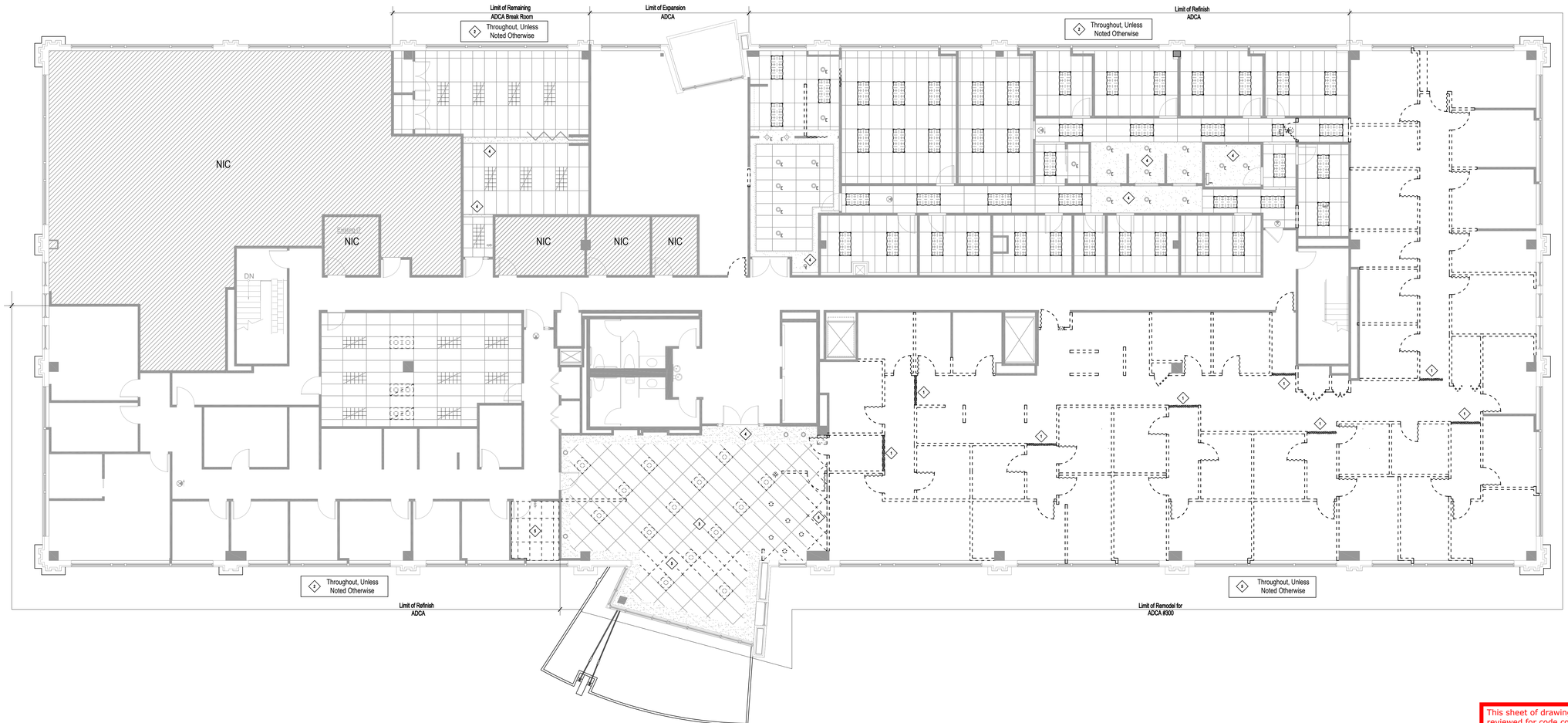
Ceiling Mounted Fixtures/ Devices

- Building Standard 2×4 fluorescent acrylic lens light fixture
- Building Standard 2×4 parabolic lens light fixture
- Building Standard 2×2 parabolic lens light fixture
- Recessed downlight fixture
- Building Standard Exit Sign. 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:
  "D" = dimable switch and ballast
  "3" = Three-way operation
  [lower case letters] indicate circuiting when necessary for clarification
- Symbols shown shaded and/or dashed indicated devices to be removed/ demolished.
  NOTE: At exterior curtain wall sill partitions (only), where power/ phone/ data devices are designated to be removed/ demolished, conduit and J-boxes shall remain. Provide Building Standard blank face plates. All demolition of power/ phone data devices at interior partitions shall include removal of all associated conduit and J-boxes and patching/ painting of partitions.

Refer to Engineering Drawings for complete specifications



1 Demolition Ceiling Plan
Suite 300

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

North

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

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COLORADO LICENSED 400450 ARCHITECT
12.06.2021

ADCA Remodel & Expansion

Dates of Record
Project Start Date: 6 Apr 2020

Issued On	Issued For
22 Oct 2021	Tenant Review & Approval; and Construction

Sheet Contents: Demolition Ceiling Plan

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428010	GBS	AC	MH	GBS/AC

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1444 South Potomac • ADCA Remodel & Expansion

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Sheet A1.0 Plan Notes

1. **Refer to General Notes** for additional requirements.
2. **DOOR ASSEMBLIES:**
   - 2.1. All assemblies shown on the drawings and not referenced to the Door Schedule are existing to remain (unless noted otherwise).
   - 2.2. Inspect, make repairs to, and clean ALL existing assemblies and components to like new conditions. Re-use existing door assemblies and/or components where possible.
   - 2.3. Provide new door assemblies and/or components as specified on the drawings. Door frames shall be securely fastened in place and the entire assembly shall be installed plumb and square with maximum diagonal distortion of 1/8". Undercut doors as needed for specified floor coverings.
3. **INSULATION and ATTENUATION**: Provide insulation or sound attenuation in walls and above suspended ceiling if indicated on the drawings. Specifications shall conform to the following:
   - 3.1. Sound attenuation in walls shall be unfaced fiberglass, 16" to 24" wide to correspond with stud width.
   - 3.2. Thermal insulation in walls shall be Kraft faced fiberglass, 16" to 24" wide, with R-13 thermal value.
   - 3.3. Sound attenuation in ceilings shall be foil faced fiberglass, 24" wide, acceptable for use in return air plenums.
4. **BACKING/BLOCKING:** Provide solid wood blocking in partitions for plumbing fixtures, door stops, wall mounted equipment (including televisions), millwork, etc., and as indicated on the drawings. Plywood backing may be used for shelving. Framing material for blocking, nailers, etc. shall be Western Douglas Fir or Hemlock.
5. **PARTITIONS**: Conform to the following:
   - 5.1. Partitions shall be erected plumb and true.
   - 5.2. Drywall partitions and joints shall be taped and finished smooth and prepared for specified finish treatment. Coat vertical joints from floor to ceiling for additional substrate to the base trim.
   - 5.3. Skim coat existing partitions as needed.
   - 5.4. All exposed corners shall be fitted with metal corner bead and top of walls at underside of suspended ceilings shall be straight and true.
   - 5.5. Provide "kickers" or metal stud support from the top of the partition to the underside of structure above for long runs and at all jambs of openings for door assemblies and at any glazed opening within 36" of the strike side of swinging doors.
6. **EXISTING LIFE SAFETY SYSTEMS**: Modify (fire alarm/smoke detection) on a ***DESIGN-BUILD*** basis. Conform to these drawings and documents and as required for obtaining a building permit. Refer to General Notes.

Wall Legend

EXISTING PARTITION to remain.

EXISTING PARTIAL HEIGHT PARTITION to remain.

EXISTING PARTIAL HEIGHT PARTITION (Shown underneath a millwork surface) to remain.

NEW STANDARD INTERIOR PARTITION. Non-rated assembly. 25 gauge 3-5/8" metals studs at 24" o.c. with 5/8" gypsum board each side floor to finished ceiling.
Re: W2/A1.0
5/8" Gypsum Board each side to finished ceiling — Metal studs at 24 "o.c. Typ.

NEW PARTIAL HEIGHT PARTITION (Shown underneath a millwork surface). 5/8" gypsum board each side of 20 Gauge, 3⅝" metal studs at 24" o.c. Refer to Millwork Section Detail.
Re: W3/A1.0
5/8" Gypsum Board each side to finished ceiling — Metal studs at 24 "o.c. Typ.

NEW FURRING PARTITION. Non-rated assembly. 25 gauge 2½" metal studs at 24" o.c. with 5/8" gypsum board at exposed side floor to 6" above finished ceiling. Refer to Reflected Ceiling plan for ceiling heights.
Re: W4/A1.0
5/8" Gypsum Board exposed side — Existing Building Core — Metal studs at 24 "o.c. Typ.

NEW SOUND ATTENUATED PARTITION. Non-rated assembly. 25 gauge, 3-5/8" metal studs at 24" o.c. with 5/8" gypsum board each side to 6" above finished ceiling and 3-5/8" fiberglass sound attenuation batts floor to 6" above ceiling and extend 24" over ceiling on each side of partition. Match Building Standard.
Re: W5/A1.0
5/8" Gypsum Board each side floor to 6" above finished ceiling. — Metal studs at 24 "o.c. Typ. — Sound attenuation batts from floor to finished ceiling height

Match existing construction. Field verify existing construction for extent of work and verify match to these partition types.

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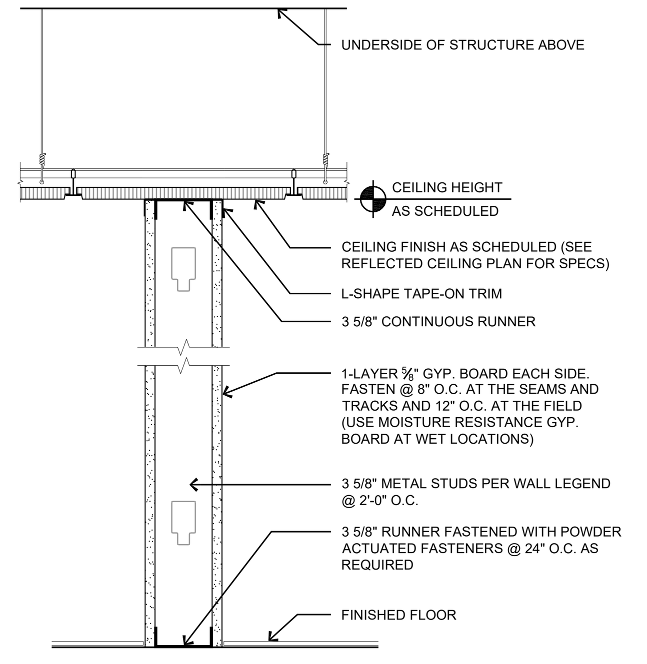
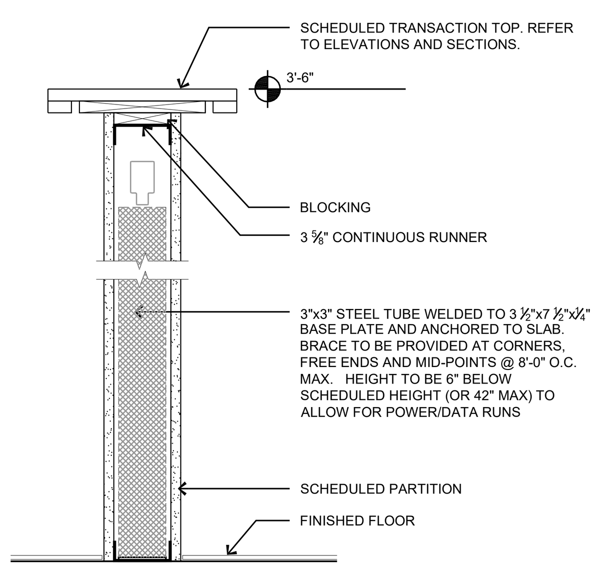
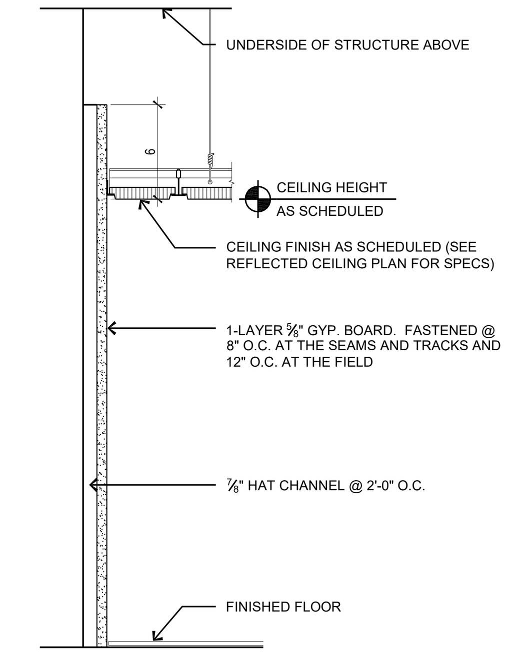


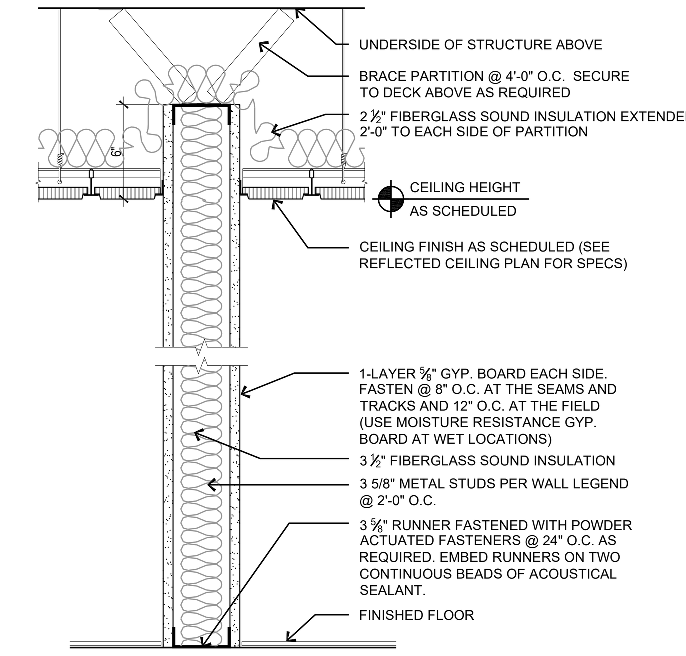
2 Partition: Interior
Ceiling — Scale: 1½" = 1'-0"



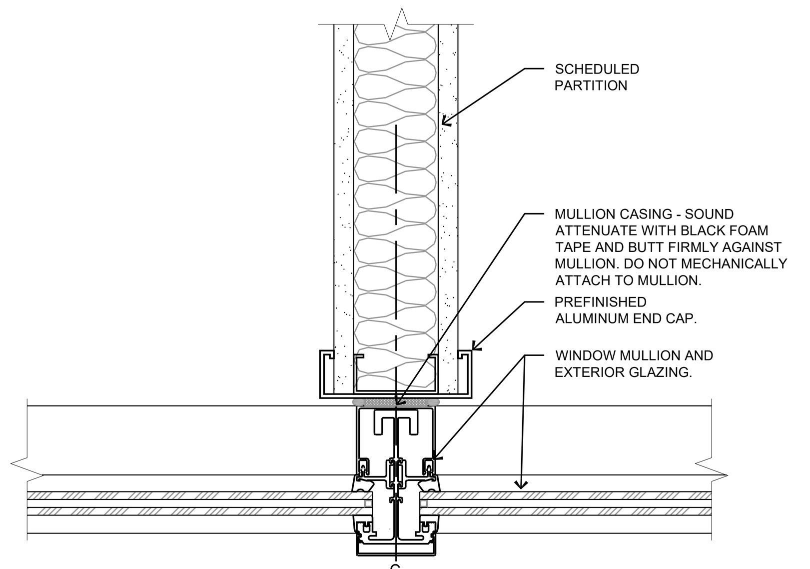
3 Partition: Partial Height
Transaction Top — Scale: 1½" = 1'-0"



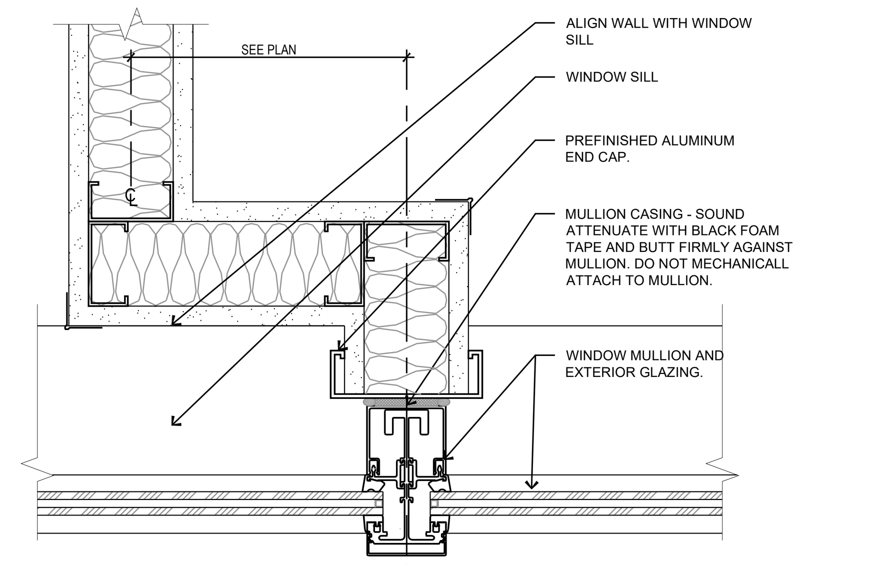
4 Partition: Furring
⅞" Channel — Scale: 1½" = 1'-0"



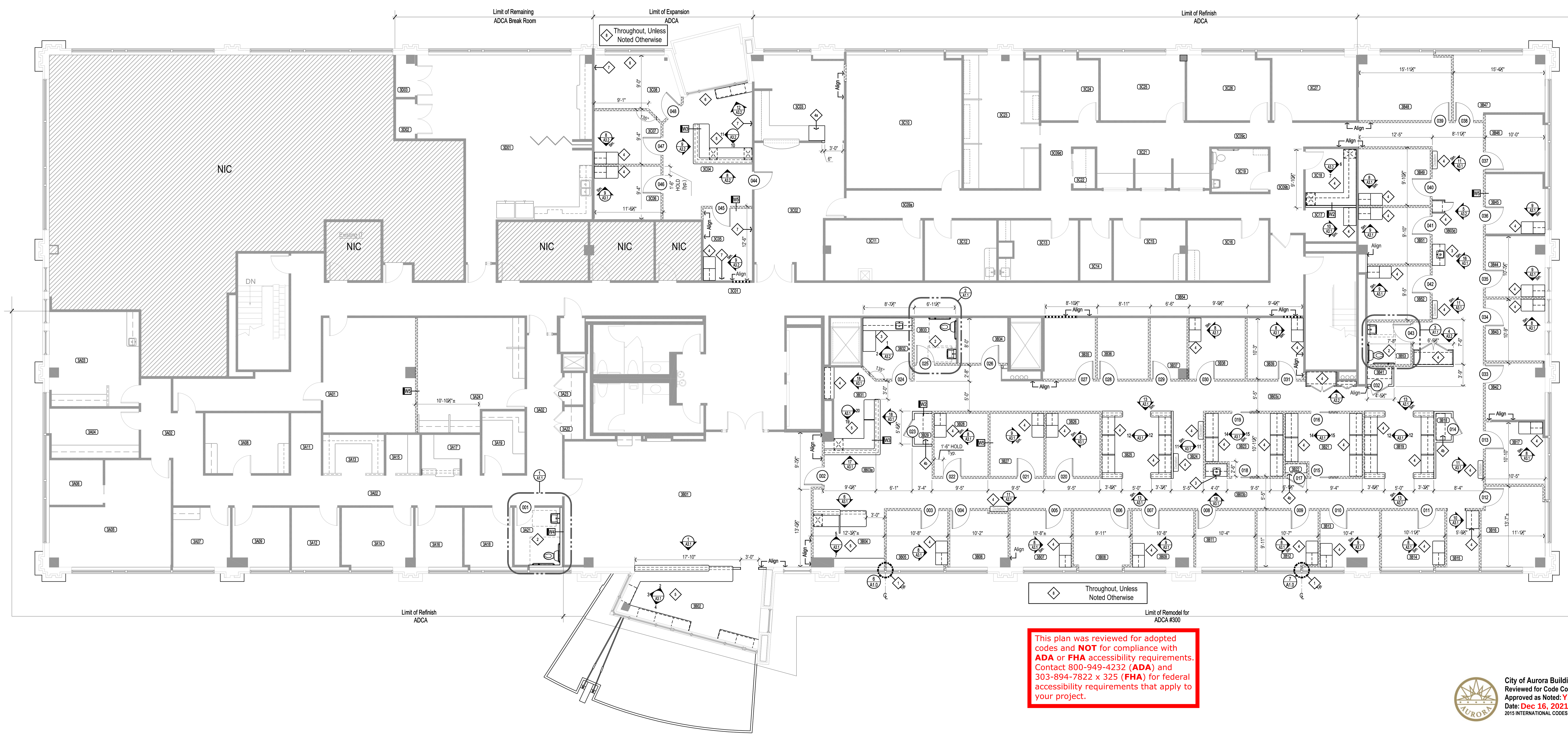
5 Partition: Interior
Above Ceiling - Sound at Clng — Scale: 1½" = 1'-0"



6 Partition to Mullion
Straight Wall — Scale: 3" = 1'-0"



7 Partition to Mullion
Jog at Window Sill — Scale: 3" = 1'-0"



1 Construction Plan
Suite 300 — Scale: 1/8" = 1'-0"

This plan was reviewed for adopted codes and **NOT** for compliance with **ADA** or **FHA** accessibility requirements. Contact 800-949-4232 (**ADA**) and 303-894-7822 x 325 (**FHA**) for federal accessibility requirements that apply to your project.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Dec 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

Room Schedule

3A01	New Board Rm.	3B31	New Check-out
3A02	Exist. Hallway	3B32	New Lab
3A03	Exist. Ultrasound	3B33	New ADA Restroom
3A04	Exist. Office	3B34	New Tech Room
3A05	Exist. Med Records	3B35	New Device Check
3A06	Exist. Copy	3B36	New Device Check
3A07	Exist. Office	3B37	New Storage
3A08	Exist. Files	3B38	New Exam
3A09	Exist. Office	3B39	New Exam
3A10	-----	3B40	-----
3A11	Exist. Print Area	3B41	New Closet
3A12	Exist. Office	3B42	New Office
3A13	Exist. Work Area	3B43	New Exam
3A14	Exist. Exam	3B44	New Exam
3A15	Exist. Work Area	3B45	New Exam
3A16	Exist. Exam	3B46	New Office
3A17	Exist. Work Area	3B47	New Office
3A18	Exist. Exam	3B48	New Office
3A19	Exist. Mail Room	3B49	New Exam
3A20	-----	3B50	-----
3A21	New ADA Restroom	3B51	New Exam
3A22	Exist. Closet	3B52	New Exam
3A23	Exist. Closet	3B53	New ADA Restroom
3A24	Exist. Office	3B54	Public Corridor
3B01	Exist. Waiting	3C01	Public Corridor
3B02	New Reception	3C02	Exist. Waiting
3B03	New Hallway	3C03	Exist. Reception
3B04	New Check-out	3C04	New MA Station
3B05	New Exam	3C05	New Exam
3B06	New Office	3C06	New Exam
3B07	New Exam	3C07	New Exam
3B08	New Office	3C08	New Office
3B09	New Exam	3C09	Exist. Hallway
3B10	-----	3C10	Exist. Office
3B11	New Office	3C11	Exist. Exam
3B12	New Exam	3C12	Exist. Exam
3B13	New Exam	3C13	Exist. Exam
3B14	New Exam	3C14	Exist. I.T.
3B15	New Print Area	3C15	Exist. Exam
3B16	New Office	3C16	Exist. Exam
3B17	New Exam	3C17	New Print Area
3B18	New Closet	3C18	New Testing Rm.
3B19	New MA Station	3C19	Exist. Restroom
3B20	-----	3C20	-----
3B21	New Office	3C21	Exist. Work Areas
3B22	New Closet	3C22	Exist. Closet
3B23	New Office	3C23	Exist. Call Center
3B24	New Dictation	3C24	Exist. Exam
3B25	New MA Station	3C25	Exist. Office
3B26	New Exam	3C26	Exist. Office
3B27	New Exam	3C27	Exist. Office
3B28	New Exam	3D01	Exist. Break Rm.
3B29	New Closet	3D02	Exist. Closet
3B30	------	3D03	Exist. Closet

Sheet Keyed Notes

1. TERMINATE PARTITION AT MULLION. Use Building Standard construction method. Refer to Detail.
2. NEW RESTROOM. Refer to enlarged plan, elevations and plumbing drawings.
3. NEW MILLWORK AND PLUMBING. Refer to elevations, details and plumbing drawings.
4. NEW MILLWORK. Refer to elevations and details.

4a. NEW MILLWORK. Extend counter top approximately 24" where indicated. Match existing finishes, depth and installation height.

4b. NEW 18" DEEP ADJUSTABLE SHELVES. Provide (5) melamine shelves, include heavy duty brackets and standards where indicated. Verify dimensions in field.

5. NEW BUILT-IN DESK. Refer to elevations and details.
6. Construct NEW CLEAR STAINED WOOD WINDOW SILLS with required INSULATION & FINISHED DRYWALL below where indicated. Match Building Standard material, finish, and dimensions.
7. PROVIDE (1) NEW LAYER OF ⅝" GYP. BD. at existing partition where indicated.
8. NEW CORNER GUARDS throughout Limit of Construction. Provide Corner Guards at all outside corners. Specify: InPro, EnviroGT G2-130, color: Gala 0380

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1444 South Potomac
1444 South Potomac Street
Aurora, CO 80012
Suite 300

COLORADO LICENSED ARCHITECT — JUAN GABRIEL LUNA — 400450
12.06.2021

ADCA Remodel & Expansion

Dates of Record

Project Start Date: 6 Apr 2020

Issued On	Issued For
22 Oct 2021	Tenant Review & Approval; and Construction

Sheet Contents	Construction Plan Partition Details

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428010	GBS	AC	MH	GBS/AC

A1.0

1444 South Potomac • ADCA Remodel & Expansion

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Door Schedule[1]

Mark	State[2]	DOOR Type	DOOR Leaf Size	DOOR Material	DOOR Finish	DOOR FRR[3]	FRAME Material	FRAME Finish	FRAME FRR[3]	HARDWARE Latch Func.	HARDWARE Additional Components	Remarks	Mark
001	E	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	3	Cl	ETR, new hardware	001
002	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	002
003	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	003
004	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	004
005	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	005
006	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	006
007	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	007
008	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	008
009	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	009
010	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	010
011	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	011
012	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	012
013	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	013
014	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	2	Cl, Cy	–	014
015	N	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Gyp. Bd.	Painted	None	4	Pocket	–	015
016	N	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Gyp. Bd.	Painted	None	4	Pocket	–	016
017	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	2	Cy	–	017
018	N	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Gyp. Bd.	Painted	None	4	Pocket	–	018
019	N	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Gyp. Bd.	Painted	None	4	Pocket	–	019
020	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	020
021	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	021
022	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	022
023	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	2	Cl, Cy	–	023
024	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	024
025	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	3	Cl	–	025
026	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	026
027	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	027
028	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	028
029	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	029
030	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	030
031	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	031
032	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	2	Cl, Cy	–	032
033	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	033
034	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	034
035	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	035
036	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	036
037	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	037
038	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	038
039	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	039
040	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	040
041	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	041
042	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	042
043	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	3	Cl	–	043
044	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	Cl	–	044
045	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	045
046	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	046
047	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	047
048	N/R	Fl	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Aluminum	Prefinished	None	1	–	–	048

Footnotes

[1] **The General Contractor shall field verify that all door and hardware specifications match Building Standards** (unless noted otherwise) **and coordinate ANY AND ALL discrepancies directly with the TPS representative** (as indicated on the cover sheet Project Team list) ***prior* to proceeding**. This includes, but is not limited to, species, stain, finish, style, function, part/ product numbers, and design specifications as well as extent of inclusions / exclusions to component lists and the like.
Opening force for all doors shall comply with IBC. Threshold: Maximum heights for thresholds shall comply with IBC. Glass: All full height glass doors and glass inserts shall comply with ANSI 404.2.9 and IBC.

[2] State:
E = Existing to remain. Assure proper working condition.
N = Provide New Door, Frame or Hardware in its entirety.
N/R = Provide New OR Relocate salvaged Door, Frame or Hardware if available. Determine available components in field.

[3] Rating: Minimum Fire-resistive Rating (per UL) required in minutes

Door, Frame, and Hardware Specifications

Wood Doors:
Wood veneer interior doors shall be 1¾" thick, 5-ply particle board core complying with CS 236, Type I, Density C, Class 1, and with AWI standard PC-5 construction, NWWDA I.S. 1.6 Type II adhesive, solid core, flush slab style.
(The General Contractor shall confirm the Building Standard specifications and match accordingly.)

Door Frames:
Entry/Exit: Hollow Metal
Interior: Prefinished Aluminum
(The General Contractor shall confirm the Building Standard specifications and match accordingly.)

Hardware:
Hardware shall meet Building Standard specifications, with Building Standard finish.

Standard hardware to be included with every door in the Door Schedule shall include:
- Latchset: Lever Handle at interior and exterior (UNO), with 1" minimum throws.

- Hinges
- Dust Proof Strike Plate
- Silencers
- Wall or Door Stop

The General Contractor shall provide separate cost to label all keys (locksets). Coordinate with Tenant and Building Management on labeling numbers.

Latch Function Legend

Hardware shall meet Building Standard specifications.

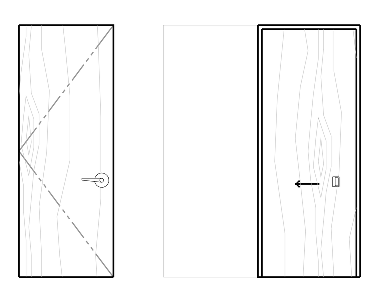
1 Passage
2 Keyed Lockset
3 Privacy
4 Flat Panel Pull w/ Stopper

Additional Hardware Components Legend

Hardware shall meet Building Standard specifications, with Building Standard finish.

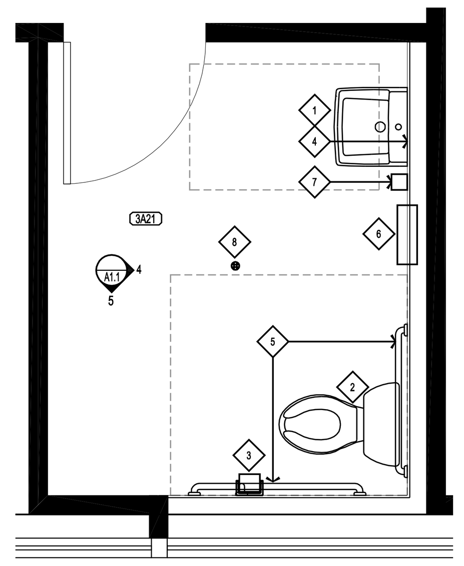
Cl	Closer, Automatic Door (1 per leaf)
Cy	Cypher Lock
Pocket	Hager - 9600 Commercial Series Pocket Door Frame Kit with Soft Close mechanism #1-269-8651. Provide ADA pull- Mfr: Trimco, 1069 Series, Finish: 629 Satin Anodize Aluminum.

Door Types

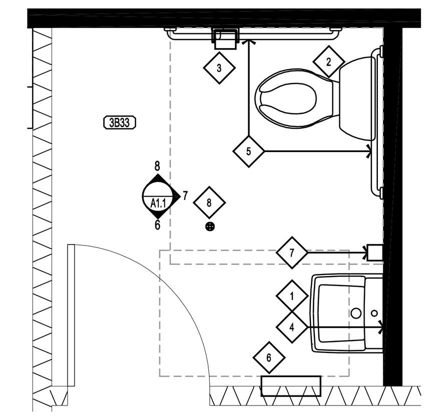


Type "Fl"
Standard Flush Swinging Door

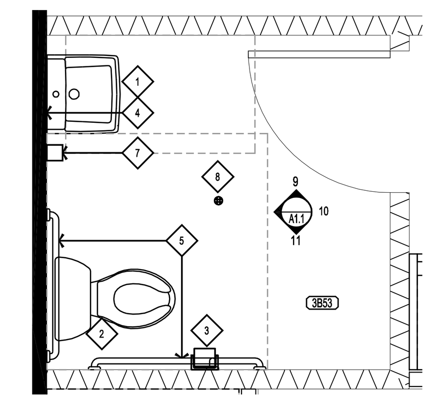
Type "Pk"
Pocket Door Assembly



1 Enlarged Restroom Plan
New ADA Restroom 3A21 — Scale: 3/8" = 1'-0"



2 Enlarged Restroom Plan
New ADA Restroom 3B33 — Scale: 3/8" = 1'-0"



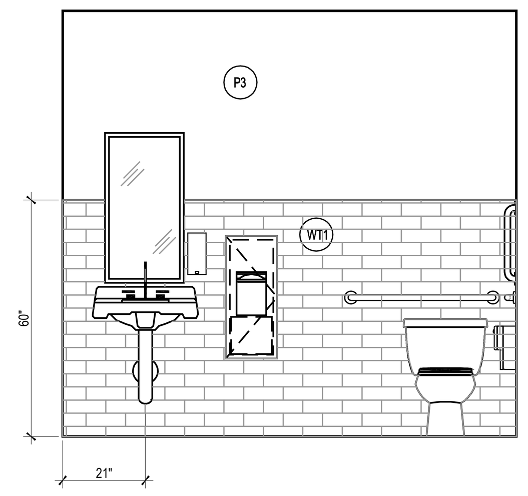
3 Enlarged Restroom Plan
New ADA Restroom 3B53 — Scale: 3/8" = 1'-0"

ADA Restroom Sheet Keyed Notes

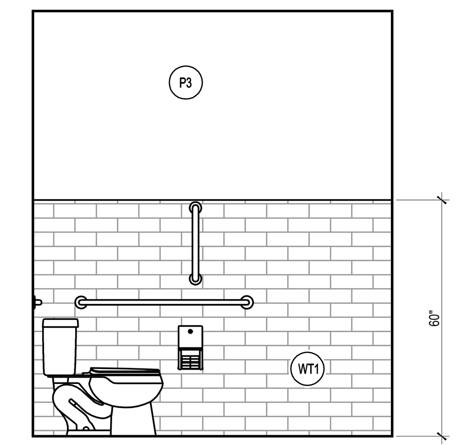
1. New WALL HUNG lavatory. Provide new ADA complaint lavatory fixture and heandles. Refer to plumbing drawings.
2. NEW ADA COMPLIANT FLOOR MOUNTED WATER CLOSET. Refer to Plumbing Drawings.
3. NEW DUAL-ROLL TOILET TISSUE DISPENSER. Provide Bobrick B-2888 equal) wall mounted unit.
4. NEW MIRROR. Provide 18"w. × 36"h. Borick B-165 plate glass mirror assembly.
5. NEW 18", 36" & 42" Grab bars. Provide Bobrick B-6806 (or equal) stainless steel grab bar with concealed mounting.
6. NEW paper towel and waste receptacle. Provide Bobrick B-36903 (or equal) recessed paper towel dispenser and waste receptacle.
7. NEW soap dispenser. Provide Borick B-2111 (or equal) Surface-Mounted Foam Soap Dispenser.
8. Floor Drain

NOTE: All plumbing fixtures and restroom accessories shall comply with ADAAG specifications and ANSI A117.7- 2009 accessibility standards and guidelines

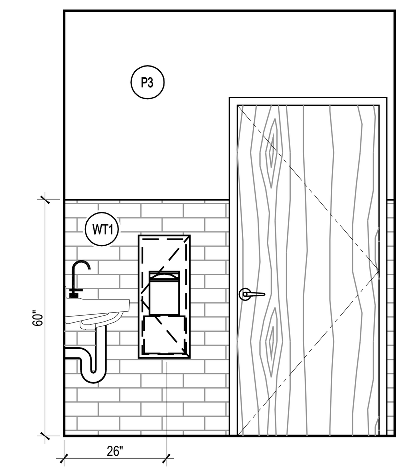
General Contractor to price the following items separately as items may be provided by Tenant's vendor.
- Paper Towel
- Trash
- Soap dispenser



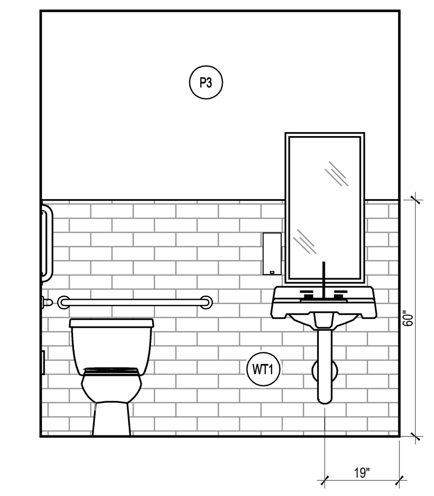
4 Elevation: Restroom
ADA Restroom 3A21 — Scale: 3/8" = 1'-0"



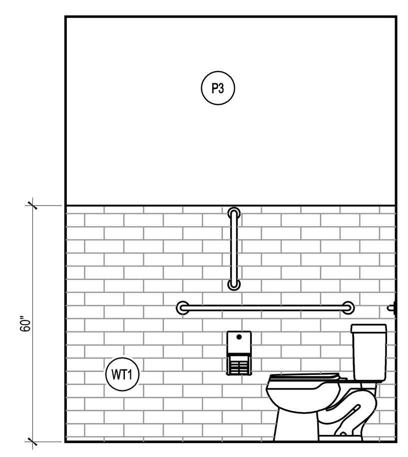
5 Elevation: Restroom
ADA Restroom 3A21 — Scale: 3/8" = 1'-0"



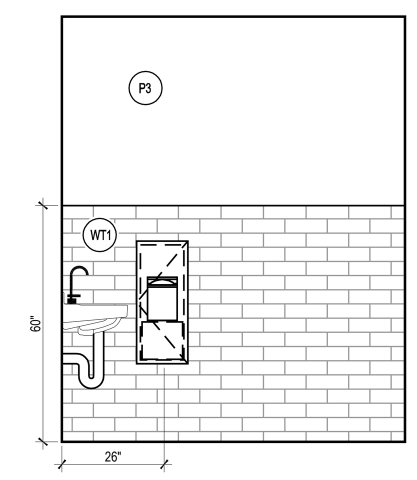
6 Elevation: Restroom
ADA Restroom 3B33 — Scale: 3/8" = 1'-0"



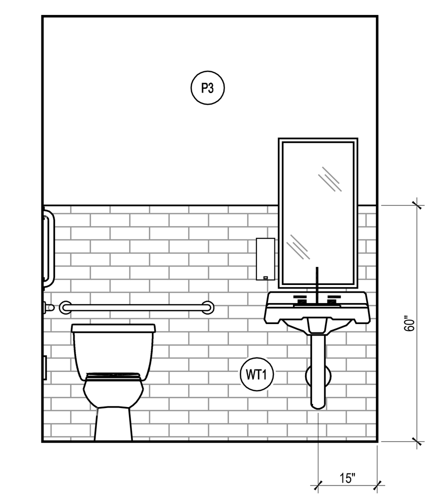
7 Elevation: Restroom
ADA Restroom 3B33 — Scale: 3/8" = 1'-0"



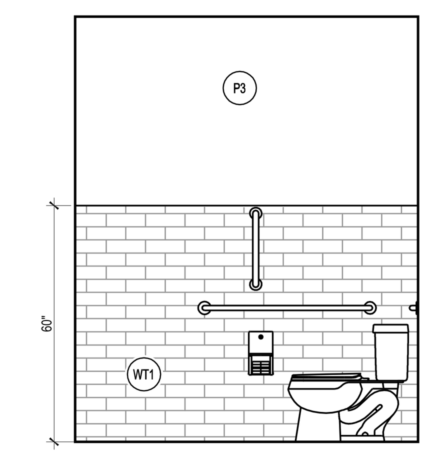
8 Elevation: Restroom
ADA Restroom 3B33 — Scale: 3/8" = 1'-0"



9 Elevation: Restroom
ADA Restroom 3B53 — Scale: 3/8" = 1'-0"



10 Elevation: Restroom
ADA Restroom 3B53 — Scale: 3/8" = 1'-0"



11 Elevation: Restroom
ADA Restroom 3B53 — Scale: 3/8" = 1'-0"

Install plumbing fixtures and toilet accessories per Chp. 6 ICC/ANSI A117.1 - 2009

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Aurora, CO 80012
Suite 300

COLORADO LICENSED JUAN GABRIEL LUNA 400450 ARCHITECT
12.06.2021

ADCA Remodel & Expansion

Dates of Record

Project Start Date: 6 Apr 2020

Issued On	Issued For
22 Oct 2021	Tenant Review & Approval; and Construction

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Dec 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

Sheet Contents: Door Schedule, Enlarged Restroom Plans, Restroom Elevations

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428010	GBS	AC	MH	GBS/AC

A1.1

1444 South Potomac • ADCA Remodel & Expansion

RSN:1594223 | PERMIT# 2021-2083670-LT

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Sheet A2.0 Plan Notes

1. **Refer to General Notes** for additional requirements.
2. **PROVIDE ELECTRICAL POWER AND COMMUNICATIONS OUTLETS**, receptacles and devices indicated on the drawings.
   - 2.1. Refer to symbols legend for device type and/or specification.
   - 2.2. Install in locations as shown on the drawings.
   - 2.3. 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).
   - 2.4. Unless noted otherwise, all electrical power and communications outlets, receptacles and devices are dimensioned to the centerline of the device or pair of devices.
   - 2.5. Confirm all box locations with Tenant prior to wiring.
   - 2.6. All rectangular outlet boxes shall be installed with the long side in the vertical position, except above counters and cabinets, or otherwise shown on the drawings.
   - 2.7. 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).
   - 2.8. Outlets shall not be installed back to back in sound insulated partition.
   - 2.9. 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.
   - 2.10. All electrical power and communications outlets, receptacles and devices shown throughout are new (unless noted otherwise).
     'E' indicates existing fixtures/device to remain
     'R' indicates relocated fixture or device
3. **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
4. **COMMUNICATION/ DATA OUTLETS** shall conform to the following:
   - 4.1. Communication/data outlets shall consist of an opening in the sheathing with a single gang plaster ring and pullwire with plastic bushing up through wall to the ceiling plenum.
   - 4.2. When inaccessible by the method described above or when indicated on the drawings, include one (1) ¾" conduit (min.) and 2" deep single gang box for outlet.
   - 4.3. 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) ¾" conduit.
   - 4.4. 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.

Symbol Legend

Wall Mounted Fixtures/ Devices

- Duplex electrical receptacle & face plate
- Quadplex electrical receptacle & face plate
- Duplex electrical receptacle & face plate on dedicated circuit
- Combination telephony/ data outlet rough-in (3/4"Ø conduit) w/ double gang J-box and single gang plaster ring with pull string to above finished ceiling.
- Existing J-box. Provide blank face plate
- Flush, in-partition double-gang J-box for systems furniture interface.
  Where indicated as new: Coordinate conduit requirements and final location with Tenant's furniture vendor prior to rough-in. General Contractor to make final electrical connections.
  'P' = power
  'C' = phone / data communications
  '-2' = empty junction box with pull string

Floor Mounted Devices

***Where indicated as new:* Coordinate conduit requirements and final location with Tenant prior to rough-in.**

- Flush in-slab combined power/ phone/ data device

Refer to Engineering Drawings for complete specifications

Sheet Keyed Notes

1. NEW FLOOR DEVICE(S). Refer to Legend. Include core drill and x-ray of slab for location of ductwork, etc. that may interfere with installation as shown. Coordinate with Tenant for all conduit requirements and any additional electrical allowances needed.
2. Provide EMERGENCY PULL STRING call system at Restrooms indicated. Alert signal located at (RN) New Offices 3B21 & 3B23. Coordinate exact specification and locations with Tenant/Tenant's Vendor.

Room Schedule

3A01	New Board Rm.	3B31	New Check-out
3A02	Exist. Hallway	3B32	New Lab
3A03	Exist. Ultrasound	3B33	New ADA Restroom
3A04	Exist. Office	3B34	New Tech Room
3A05	Exist. Med Records	3B35	New Device Check
3A06	Exist. Copy	3B36	New Device Check
3A07	Exist. Office	3B37	New Storage
3A08	Exist. Files	3B38	New Exam
3A09	Exist. Office	3B39	New Exam
3A10	-----	3B40	-----
3A11	Exist. Print Area	3B41	New Closet
3A12	Exist. Office	3B42	New Office
3A13	Exist. Work Area	3B43	New Exam
3A14	Exist. Exam	3B44	New Exam
3A15	Exist. Work Area	3B45	New Exam
3A16	Exist. Exam	3B46	New Office
3A17	Exist. Work Area	3B47	New Office
3A18	Exist. Exam	3B48	New Office
3A19	Exist. Mail Room	3B49	New Exam
3A20	-----	3B50	-----
3A21	New ADA Restroom	3B51	New Exam
3A22	Exist. Closet	3B52	New Exam
3A23	Exist. Closet	3B53	New ADA Restroom
3A24	Exist. Office	3B54	Public Corridor
3B01	Exist. Waiting	3C01	Public Corridor
3B02	New Reception	3C02	Exist. Waiting
3B03	New Hallway	3C03	Exist. Reception
3B04	New Check-out	3C04	New MA Station
3B05	New Exam	3C05	New Exam
3B06	New Office	3C06	New Exam
3B07	New Exam	3C07	New Exam
3B08	New Office	3C08	New Office
3B09	New Exam	3C09	Exist. Hallway
3B10	-----	3C10	Exist. Office
3B11	New Office	3C11	Exist. Exam
3B12	New Exam	3C12	Exist. Exam
3B13	New Exam	3C13	Exist. Exam
3B14	New Exam	3C14	Exist. I.T.
3B15	New Print Area	3C15	Exist. Exam
3B16	New Office	3C16	Exist. Exam
3B17	New Exam	3C17	New Print Area
3B18	New Closet	3C18	New Testing Rm.
3B19	New MA Station	3C19	Exist. Restroom
3B20	-----	3C20	-----
3B21	New Office	3C21	Exist. Work Areas
3B22	New Closet	3C22	Exist. Closet
3B23	New Office	3C23	Exist. Call Center
3B24	New Dictation	3C24	Exist. Exam
3B25	New MA Station	3C25	Exist. Office
3B26	New Exam	3C26	Exist. Office
3B27	New Exam	3C27	Exist. Office
3B28	New Exam	3D01	Exist. Break Rm.
3B29	New Closet	3D02	Exist. Closet
3B30	-----	3D03	Exist. Closet

1 Power & Communications Plan

Suite 300

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

North

REVIEWED FOR STRUCTURAL ONLY

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Dec 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

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Aurora, CO 80012

COLORADO LICENSED
400450
ARCHITECT
12.06.2021

ADCA Remodel & Expansion

Dates of Record
Project Start Date: 6 Apr 2020

Issued On	Issued For
22 Oct 2021	Tenant Review & Approval; and Construction

Sheet Contents: Power & Communications Plan

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428010	GBS	AC	MH	GBS/AC

A2.0

1444 South Potomac • ADCA Remodel & Expansion

project start date: 6 Apr 2020
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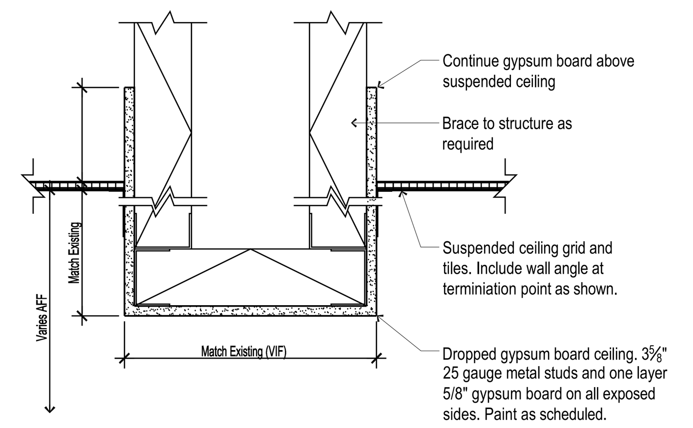
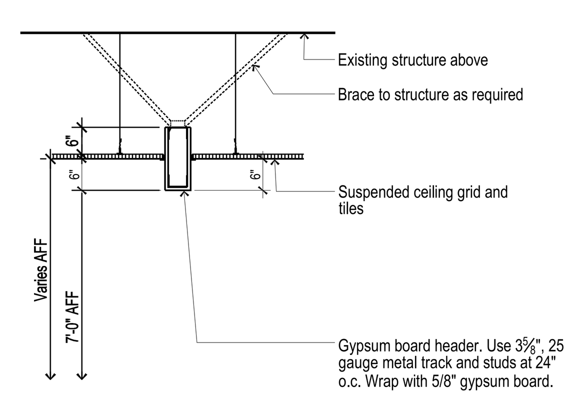
.dwg save date: 12/2/2021 7:18:42 AM by ashley to P:\428_1444 South Potomac\428010_ADCA #300\drawings\construction documents\428010c.dwg
.plt create date: 12/2/2021 7:26:07 AM by Ashley Cano layout tab: A2.1

RSN:1594223 | PERMIT# 2021-2083670-LT



2 Section: Soffit
At New Reception 3B02 — Scale: 1½" = 1'-0"



3 Section: Gypsum Board Header
At 3C09c — Scale: 1/2" = 1'-0"

Sheet A2.1 Plan Notes

1. **Refer to General Notes** for additional requirements.
2. The **SUSPENDED CEILING SYSTEM** is existing-to-remain throughout where indicated, and shall be refurbished as follows:
   - 2.1. 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.
   - 2.2. Clean, touch-up and/or replace soiled, discolored and damaged ceiling tiles. Replacement ceiling board shall be per specifications or building standards.
   - 2.3. Inspect grid suspension system and adjust ceiling plane, if necessary. Provide additional support where necessary.
   - 2.4. Replacement of materials, when required, shall occur consistently and completely in individual rooms and/or spaces for uniformity of appearance and aesthetics.
   - 2.5. Installation of tiles shall be continuous over walls. Refer to drawings for specific requirements.
   - 2.6. All tiles shall be seated tight, level and true within the grid system.
3. **PROVIDE NEW SUSPENDED CEILING SYSTEM** where indicated as follows:
   - 3.1. Suspended grid system shall match building standard 2 × 4 pattern, 1" nominal width.
   - 3.2. Ceiling tile shall match building standard 24" × 48" × ¾" thick.
   - 3.3. Installation of grid system shall be in complete accordance with the manufacturer's specifications utilizing the layout as indicated on the drawings.
   - 3.4. Install all grid members level and true and suspend from the structure above in accordance with ASTM C635, "standard specification per metal suspension system for acoustical tile and lay-in panels-intermediate duty."
   - 3.5. Installation of tiles shall be individually cut-in at rooms or areas. Refer to drawings for specific requirements.
   - 3.6. All tiles shall be seated tight, level and true within the grid system.
   - 3.7. The suspended ceiling system shall conform to requirements set forth by U.L.
4. **CEILING HEIGHT**: Varies, refer to plans for heights. Refer to construction details for ceiling construction and interface with partitions.
5. **FIXTURES AND DEVICES**: Provide and/or relocate light fixtures, switches, and controls indicated on the drawings.
   - 5.1. Refer to Symbols Legend for fixture type and/or specification.
   - 5.2. Install and support fixtures from the structure in accordance with the code.
   - 5.3. 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.
   - 5.4. 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.
   - 5.5. 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.
   - 5.6. All light fixtures, exit signs, and switch devices shown throughout are new (unless noted otherwise).
     'E' indicates existing fixtures/device to remain
     'R' indicates relocated fixture or device
6. **LIGHTING DIMENSIONS:** Unless noted otherwise, all light fixtures and devices are dimensioned to the centerline of the fixture.
7. **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.
8. **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.

Sheet Keyed Notes

1. EXISTING CEILING to remain. The suspended grid and acoustical ceiling tile system shall remain throughout where indicated. Restore existing ceiling grid to 'like new' conditions as possible. Repair, replace and/or provide new grid and/or tiles as necessary. Match existing specifications.
2. EXISTING CEILING to remain. The suspended grid and acoustical ceiling tile system shall remain at locations indicated. Clean and replace dirty or damaged tiles as necessary due to demo and new construction.
3. EXISTING GYPSUM BOARD SOFFIT/ HEADER to remain. Paint touch-up as necessary.
4. NEW SUSPENDED CEILING. Provide grid and acoustical tile system where indicated. Match common ceiling height. Center system in room as shown.
5. Provide NEW FRAMED GYP. BD. CEILING at 8'-0" AFF where indicated.
6. Provide NEW FRAMED GYP. BD. SOFFIT. Align with existing adjacent soffit. Refer to detail 2/A2.1.
7. Provide NEW FRAMED GYP. BD. HEADER. Refer to detail 3/A2.1.

Symbol Legend

Ceiling Mounted Fixtures/ Devices

- Building Standard 2×4 LED light fixture
- Building Standard 2×4 LED light fixture
- Building Standard 2×4 fluorescent acrylic lens light fixture
- Building Standard 2×4 parabolic lens light fixture
- Building Standard 2×2 parabolic lens light fixture
- Recessed downlight fixture
- Building Standard Exit Sign. 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:
  "D" = dimable switch and ballast
  "3" = Three-way operation
  [lower case letters] indicate circuiting when necessary for clarification

Refer to Engineering Drawings for complete specifications

Room Schedule

3A01	New Board Rm.	3B31	New Check-out
3A02	Exist. Hallway	3B32	New Lab
3A03	Exist. Ultrasound	3B33	New ADA Restroom
3A04	Exist. Office	3B34	New Tech Room
3A05	Exist. Med Records	3B35	New Device Check
3A06	Exist. Copy	3B36	New Device Check
3A07	Exist. Office	3B37	New Storage
3A08	Exist. Files	3B38	New Exam
3A09	Exist. Office	3B39	New Exam
3A10	-----	3B40	-----
3A11	Exist. Print Area	3B41	New Closet
3A12	Exist. Office	3B42	New Office
3A13	Exist. Work Area	3B43	New Exam
3A14	Exist. Exam	3B44	New Exam
3A15	Exist. Work Area	3B45	New Exam
3A16	Exist. Exam	3B46	New Office
3A17	Exist. Work Area	3B47	New Office
3A18	Exist. Exam	3B48	New Office
3A19	Exist. Mail Room	3B49	New Exam
3A20	-----	3B50	-----
3A21	New ADA Restroom	3B51	New Exam
3A22	Exist. Closet	3B52	New Exam
3A23	Exist. Closet	3B53	New ADA Restroom
3A24	Exist. Office	3B54	Public Corridor
3B01	Exist. Waiting	3C01	Public Corridor
3B02	New Reception	3C02	Exist. Waiting
3B03	New Hallway	3C03	Exist. Reception
3B04	New Check-out	3C04	New MA Station
3B05	New Exam	3C05	New Exam
3B06	New Office	3C06	New Exam
3B07	New Exam	3C07	New Exam
3B08	New Office	3C08	New Office
3B09	New Exam	3C09	Exist. Hallway
3B10	-----	3C10	Exist. Office
3B11	New Office	3C11	Exist. Exam
3B12	New Exam	3C12	Exist. Exam
3B13	New Exam	3C13	Exist. Exam
3B14	New Exam	3C14	Exist. I.T.
3B15	New Print Area	3C15	Exist. Exam
3B16	New Office	3C16	Exist. Exam
3B17	New Exam	3C17	New Print Area
3B18	New Closet	3C18	New Testing Rm.
3B19	New MA Station	3C19	Exist. Restroom
3B20	-----	3C20	-----
3B21	New Office	3C21	Exist. Work Areas
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3B23	New Office	3C23	Exist. Call Center
3B24	New Dictation	3C24	Exist. Exam
3B25	New MA Station	3C25	Exist. Office
3B26	New Exam	3C26	Exist. Office
3B27	New Exam	3C27	Exist. Office
3B28	New Exam	3D01	Exist. Break Rm.
3B29	New Closet	3D02	Exist. Closet
3B30	------	3D03	Exist. Closet

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1444 South Potomac
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Aurora, CO 80012
Suite 300

COLORADO LICENSED JUAN GABRIEL LUNA 400450 ARCHITECT
12.06.2021

ADCA Remodel & Expansion

Provide Exit signs per 15 IBC 1013

1 Reflected Ceiling Plan
Suite 300 — Scale: 1/8" = 1'-0" — North

1444 South Potomac • ADCA Remodel & Expansion

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Dec 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

Dates of Record
Project Start Date: 6 Apr 2020

Issued On	Issued For
22 Oct 2021	Tenant Review & Approval; and Construction

Sheet Contents: Reflected Ceiling Plan

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428010	GBS	AC	MH	GBS/AC

A2.1

project start date: 6 Apr 2020
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1444 South Potomac • ADCA Remodel & Expansion

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	White	(Not Shown)	Primer for all new exposed gypsum board surfaces.
Interior Paint		ProMar 200 Eg-Shel	Fist Star SW7646	P1	Provide two (2) coats (minimum) at all new surfaces. • P1: Paint all exposed gypsum board surfaces throughout Limit of Construction (UNO). • P2: Accent paints at length of walls indicated on Finish Treatment Plan. • P3: at exposed restroom gypsum board surfaces
		ProMar 200 Eg-Shel	Waterloo SW9141	P2	
		B21W200 ProMar200	Fist Star SW7646	P3	
Interior Paint	Sherwin-Williams	B34 Series ProClassic		P4	Paint for hollow metal door frames.
Interior Paint	Sherwin-Williams	B30W00206 ProMar 200 Latex Flat	First Star SW7646	P5	Paint for gyp. board ceilings/soffits/headers throughout Limit of Construction.
Wall Tile	Arizona Tile	Bare	White	WT1	3"x12" tile at Existing and New ADA Restrooms; At Existing Restroom: Install at exact locations of existing tile. Provide Schluter - Deco strip at exposed edges. Grout: Custom - Dove Grey. Install horizontal - staggered. Align grout lines with floor tile grout lines.
Millwork					
Plastic Laminate	Wilsonart	White Cascade 5003-38		PL1	Countertops and Splashes at Coffee Station, Reception, Check-Out, Lab, RN, Break Room; transaction tops at MA.
	Formica	Espresso Pear 5489-NT		PL2	Cabinets to run vertically at Reception, Check-Out, Lab, & MAs.
		Blackened Steel 8918-58		PL3	Front face of desk at Reception and Check-Out (include finished strip at exposed edges); worksurface at MA, Charge / Revenue, Eco; cabinets RN.
	Wilsonart	Calcutta Marble 4925K-07		PL4	Countertops and splashes at Exams and Hand Wash.
	Formica	Neutral Twill 8826-58		PL5	Wall cabinets at Exams and Hand Wash.
		Earthen Twill 8828-58		PL6	Base cabinets at Exams and Hand Wash.
Quartz	MSI	Calcutta Laza		QZ1	3CM quartz at Reception transaction top. ALTERNATE: waterfall edge.
Floorcovering					
Carpet Tile	Mohawk	First One Up II BT443	Priority 727	C1	24"x24" carpet tile at Office, APP, MA, RN, & Charge Revenue. Install multi-directional pattern.
Vinyl Composition Tile	Armstrong Standard Excelon	Imperial Texture 12×12×⅛	Pewter 51908	VCT1	Where indicated.
Luxury Vinyl Tile	Shaw Contract	Terrain II	Summit	LVT1	Throughout; Installed Stagger (refer to Finish Treatment Plan for directions. Include schluter strip at flooring transition.
Floor Tile	Daltile	Linden Point	Grigio LP21	FT1	12"x24" floor tile at New ADA Restrooms. Provide Schluter - Dilex AHK strip at tile corners. Grout: Custom - Dove Grey. Refer to Finish Treatment Plan plan for installation pattern.
Existing Floorcovering	Existing to Remain			ETR	Floorcovering at Building Lobby and Corridors to be provided by others.
Base Trim					
6" Rubber Base Trim	Tarkett	Moon Rock 29		RB1	Only coiled base trim approved. Straight at carpet, coved at hard surfaces.

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 counter top. 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.

Sheet A3.0 Plan Notes

RSN:1594223 | PERMIT# 2021-2083670-LT

1. **Refer to General Notes** for additional requirements.
2. **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).
3. **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).
4. **GENERAL FINISH TREATMENT NOTES**:
   - 4.1. Coordination: finish treatment subcontractors and installers shall coordinate with other trades for applications affecting other tradework, especially millwork, etc.
   - 4.2. Unless noted otherwise, all floor coverings, baseboard, and floor preparation shall be the responsibility of the General Contractor, including removal of existing materials.
   - 4.3. Installation: all finish treatments shall be installed or applied in strict accordance with the manufacturer's written specifications and the drawings.
   - 4.4. Protection: protect all surfaces, doors, hardware, outlet plates, etc. From spills, splatters and overspray of paint, drywall compound, adhesive and other materials.
   - 4.5. Preparation: field measure each space to receive finish treatment as a basis of supplying, cutting and seaming material. Do not scale the drawings or calculate sizes from dimensions shown.
   - 4.6. Surfaces: all surfaces shall be properly prepared prior to installation of material including but not limited to priming of walls to receive paint, sizing of walls to receive wall covering, patching/filling holes and depressions, etc.
   - 4.7. Surface texture: unless noted otherwise, all drywall finish shall be smooth.
5. **CARPET INSTALLATION**: carpet installation shall comply with the CRI 104 Standards for installation of Commercial Carpet and in strict accordance with the manufacturer's written specifications, and shall also conform to the following:
   - 5.1. Where carpet seams occur in doorways, locate seam beneath center of door slab.
   - 5.2. Furnish and install resilient type reducer strip (saddle) where resilient floor coverings abutt carpet. See drawing for color.
   - 5.3. Coordinate installation for uniformity where dye-lot variations may occur in material.
6. **WALLCOVERING INSTALLATION**: wall covering shall be installed or applied in complete accordance with the manufacturer's written specifications and shall also conform to the following:
   - 6.1. Wrap all device cover plates with wall covering only on walls scheduled to receive wall covering (match wall finish).
   - 6.2. Furnish and install "J" metal polished aluminum edge cap (mudded in) at corners where wall coverings terminate and ends are exposed.
7. **PAINT**: paint shall be installed or applied in strict accordance with the manufacturer's written specifications and as recommended by "Master Painter's Institute (MPI) Interior and Exterior Painting Guide Specifications (latest edition) and shall also conform to the following:
   - 7.1. Surfaces scheduled for painting shall receive no less than two coats of paint (3.0 mil, min. Thickness).
   - 7.2. All materials shall be evenly applied avoiding runs, sags, flashing or splotching. All coats shall be allowed to dry thoroughly prior to application of succeeding coats. Where necessary, provide masking to avoid inadvertent applications.
   - 7.3. Unpainted gypsum board and drywall shall be primed prior to painting. The primer may be tinted with the paint color only as recommended by the paint manufacturer.
   - 7.4. At the completion of the job and after installation of the floor covering, touch-up paint all areas as required. Blend paint touch-up in with existing for a consistent and uniform appearance.
8. **WINDOW COVERINGS**: unless noted otherwise, window coverings shall be the responsibility of the General Contractor and shall conform to the following:
   - 8.1. **FURNISH AND INSTALL NEW WINDOW COVERINGS** at exterior glazing only where indicated. Specification: Match Building Standard
   - 8.2. **RE-USE EXISTING WINDOW COVERINGS** at exterior glazing throughout. Wrap and bag all window coverings during construction. The General Contractor shall inspect existing conditions of material and operation and make necessary repairs or replace to match existing. Replace window coverings if missing. Upon completion of job, clean material, hardware and housings thoroughly, including both sides of window covering material.
9. The General Contractor is responsible to verify all specified finishes match items listed on the Finish Treatment schedule prior to order/ installation.

Sheet Keyed Notes

1. PROVIDE NEW CHAIR RAIL wall protection at length of wall indicated. Specify: InPro, Paladium 3D Trim horizontal board, color: Gala 0380. Coordinate exact location and installation height with Tenant /Exam room seating.
2. PROVIDE NEW WINDOW COVERINGS where indicated. Match existing base building standard spec.
3. Existing finishes to remain where indicated.

Room Schedule

3A01	New Board Rm.	3B31	New Check-out
3A02	Exist. Hallway	3B32	New Lab
3A03	Exist. Ultrasound	3B33	New ADA Restroom
3A04	Exist. Office	3B34	New Tech Room
3A05	Exist. Med Records	3B35	New Device Check
3A06	Exist. Copy	3B36	New Device Check
3A07	Exist. Office	3B37	New Storage
3A08	Exist. Files	3B38	New Exam
3A09	Exist. Office	3B39	New Exam
3A10	-----	3B40	-----
3A11	Exist. Print Area	3B41	New Closet
3A12	Exist. Office	3B42	New Office
3A13	Exist. Work Area	3B43	New Exam
3A14	Exist. Exam	3B44	New Exam
3A15	Exist. Work Area	3B45	New Exam
3A16	Exist. Exam	3B46	New Office
3A17	Exist. Work Area	3B47	New Office
3A18	Exist. Exam	3B48	New Office
3A19	Exist. Mail Room	3B49	New Exam
3A20	-----	3B50	-----
3A21	New ADA Restroom	3B51	New Exam
3A22	Exist. Closet	3B52	New Exam
3A23	Exist. Closet	3B53	New ADA Restroom
3A24	Exist. Office	3B54	Public Corridor
3B01	Exist. Waiting	3C01	Public Corridor
3B02	New Reception	3C02	Exist. Waiting
3B03	New Hallway	3C03	Exist. Reception
3B04	New Check-out	3C04	New MA Station
3B05	New Exam	3C05	New Exam
3B06	New Office	3C06	New Exam
3B07	New Exam	3C07	New Exam
3B08	New Office	3C08	New Office
3B09	New Exam	3C09	Exist. Hallway
3B10	-----	3C10	Exist. Office
3B11	New Office	3C11	Exist. Exam
3B12	New Exam	3C12	Exist. Exam
3B13	New Exam	3C13	Exist. Exam
3B14	New Exam	3C14	Exist. I.T.
3B15	New Print Area	3C15	Exist. Exam
3B16	New Office	3C16	Exist. Exam
3B17	New Exam	3C17	New Print Area
3B18	New Closet	3C18	New Testing Rm.
3B19	New MA Station	3C19	Exist. Restroom
3B20	-----	3C20	-----
3B21	New Office	3C21	Exist. Work Areas
3B22	New Closet	3C22	Exist. Closet
3B23	New Office	3C23	Exist. Call Center
3B24	New Dictation	3C24	Exist. Exam
3B25	New MA Station	3C25	Exist. Office
3B26	New Exam	3C26	Exist. Office
3B27	New Exam	3C27	Exist. Office
3B28	New Exam	3D01	Exist. Break Rm.
3B29	New Closet	3D02	Exist. Closet
3B30	------	3D03	Exist. Closet

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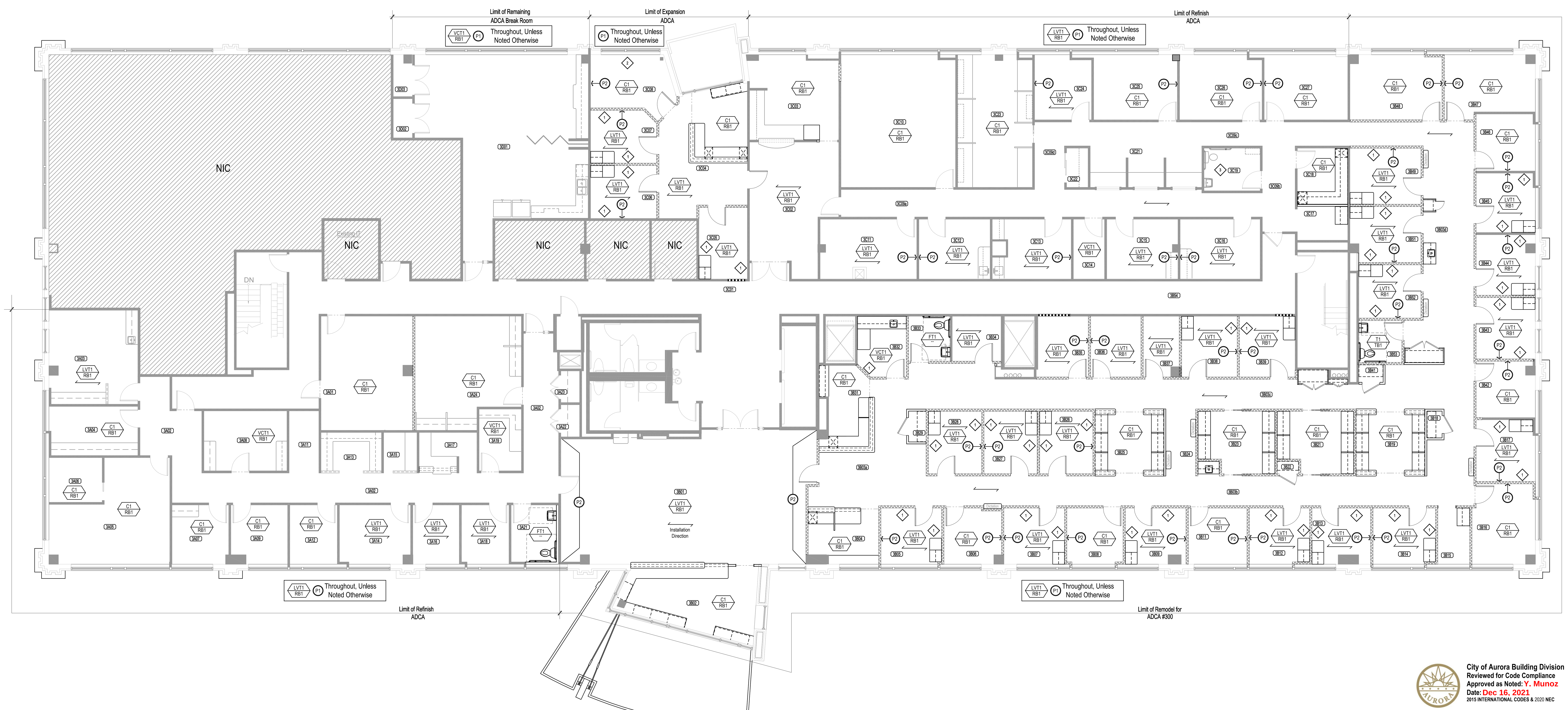
1444 South Potomac
1444 South Potomac Street
Aurora, CO 80012
Suite 300

COLORADO LICENSED ARCHITECT JUAN GABRIEL LUNA 400450
12.06.2021

ADCA Remodel & Expansion



1 ***Finish Treatment Plan***
Suite 300
Scale: 1/8" = 1'-0"
North

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Dec 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

Dates of Record

Project Start Date: 6 Apr 2020

Issued On	Issued For
22 Oct 2021	Tenant Review & Approval; and Construction

Sheet Contents	Finish Treatment Plan Finish Treatment Schedule

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428010	GBS	AC	MH	GBS/AC

A3.0

RSN:1594223 | PERMIT# 2021-2083670-LT

project start date: 6 Apr, 2020
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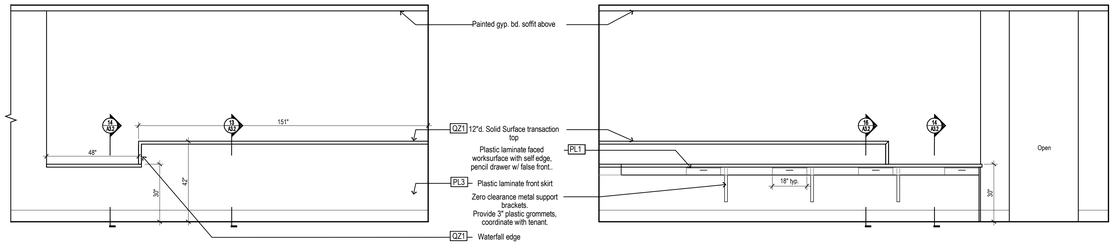

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3B02 Reception — Scale: 3/8" = 1'-0"

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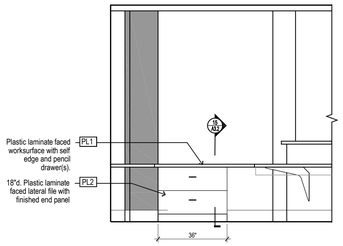
3B02 Reception — Scale: 3/8" = 1'-0"



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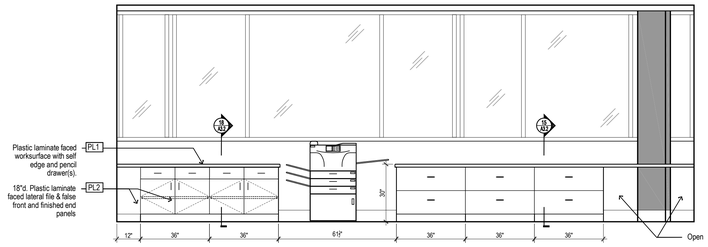

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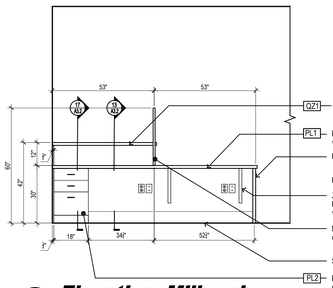
3B02 Reception — Scale: 3/8" = 1'-0"



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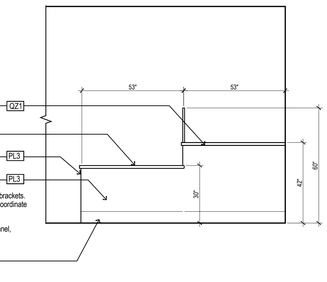
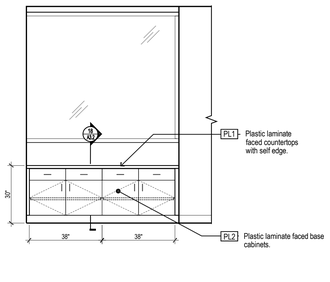
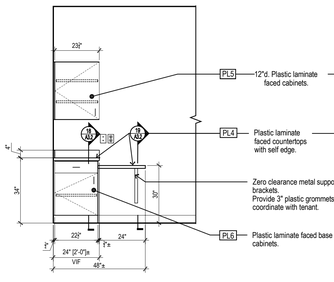
3B04 Check-In — Scale: 3/8" = 1'-0"



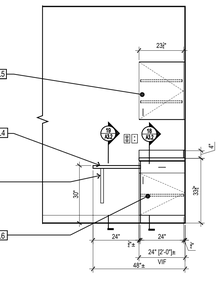
6 Elevation: Millwork
3B04 Check-In — Scale: 3/8" = 1'-0"



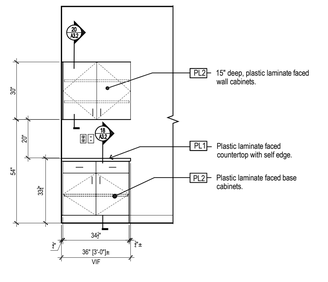
7 Elevation: Millwork
3B04 Check-In — Scale: 3/8" = 1'-0"



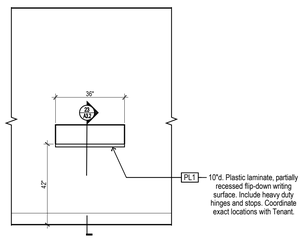
8 Elevation: Millwork
Typical Exam Rooms — Scale: 3/8" = 1'-0"



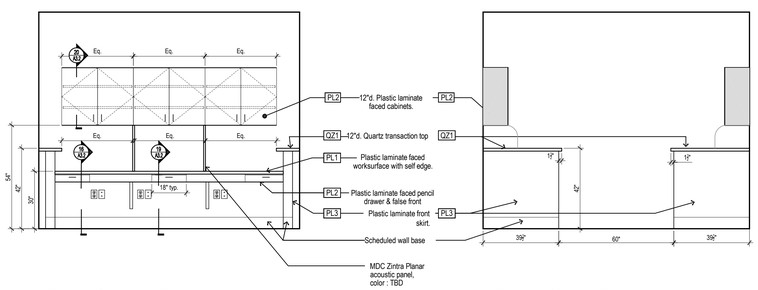
9 Elevation: Millwork
Typical Exam Rooms — Scale: 3/8" = 1'-0"



10 Elevation: Millwork
3B15 & 3C17 — Scale: 3/8" = 1'-0"

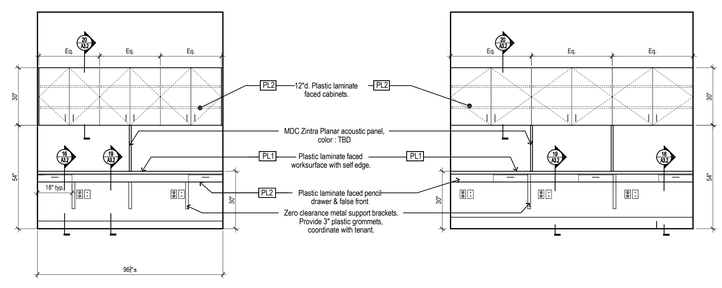


11 Elevation: Millwork
3B24 New Dication/ 3B03d New Hallway — Scale: 3/8" = 1'-0"



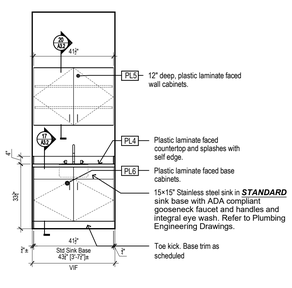
12 Elevation: Millwork
M.A. 3B25 & 3B19 — Scale: 3/8" = 1'-0"

13 Elevation: Millwork
M.A. 3B25 & 3B19 — Scale: 3/8" = 1'-0"

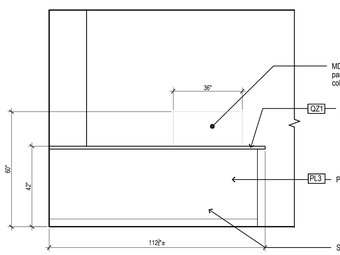


14 Elevation: Millwork
RN 3B23 & 3B21 — Scale: 3/8" = 1'-0"

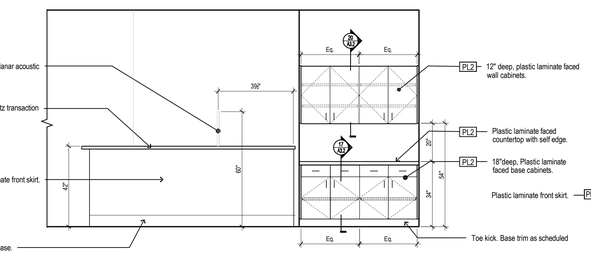
15 Elevation: Millwork
RN 3B23 & 3B21 — Scale: 3/8" = 1'-0"



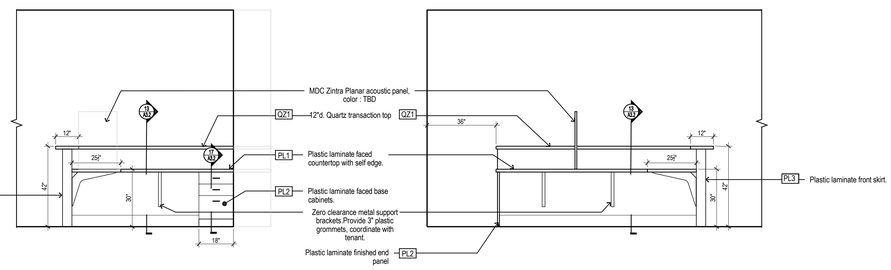
16 Elevation: Millwork
3B03b & 3B03d — Scale: 3/8" = 1'-0"



17 Elevation: Millwork
3B31 Check-Out — Scale: 3/8" = 1'-0"



18 Elevation: Millwork
3B31 Check-Out — Scale: 3/8" = 1'-0"



19 Elevation: Millwork
3B31 Check-Out — Scale: 3/8" = 1'-0"

20 Elevation: Millwork
3B31 Check-Out — Scale: 3/8" = 1'-0"

General Millwork Notes

1. Provide 2" radius corners at all exposed corners
2. Provide PVC edges at all worksurface/countertops to match plastic laminate.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Dec 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

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1444 South Potomac
1444 South Potomac Street
Aurora, CO 80012
Suite 300

COLORADO LICENSED ARCHITECT 400450 ARCHITECT
12.06.2021

ADCA Remodel & Expansion

Dates of Record
Project Start Date: 6 Apr 2020

Issued On	Issued For
22 Oct 2021	Tenant Review & Approval; and Construction

Sheet Contents: Millwork Elevations

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428010	GBS	AC	MH	GBS/AC

A3.1

1444 South Potomac • ADCA Remodel & Expansion

RSN:1594223 | PERMIT# 2021-2083670-LT

project start date: 6 Apr, 2020
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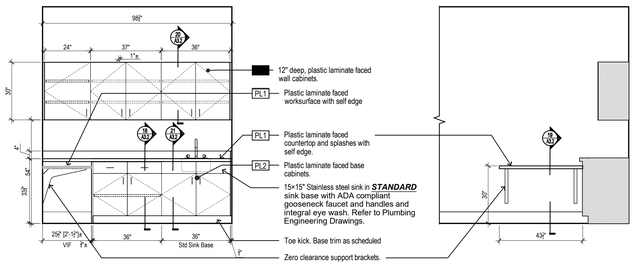
General Millwork Notes

1. Provide 2" radius corners at all exposed corners
2. Provide PVC edges at all worksurface/countertops to match plastic laminate.



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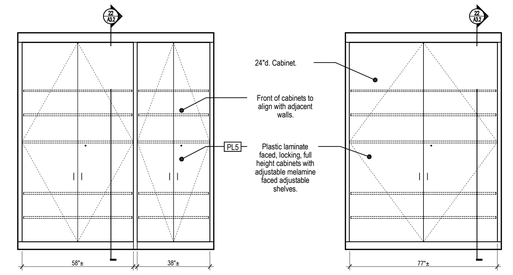
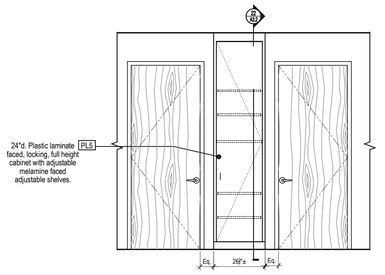
3B32 Lab — Scale: 3/8" = 1'-0"

2 Elevation: Millwork
3B32 Lab — Scale: 3/8" = 1'-0"

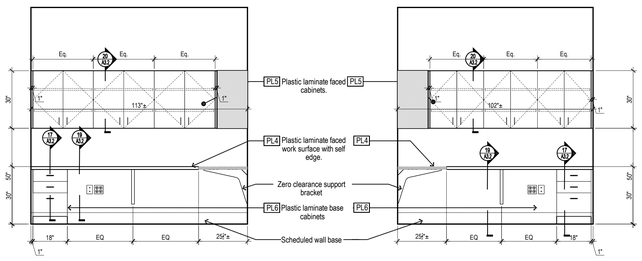


3 Elevation: Millwork
3B03c Storage Cabinets — Scale: 3/8" = 1'-0"

4 Elevation: Millwork
3B03d Storage Cabinets — Scale: 3/8" = 1'-0"

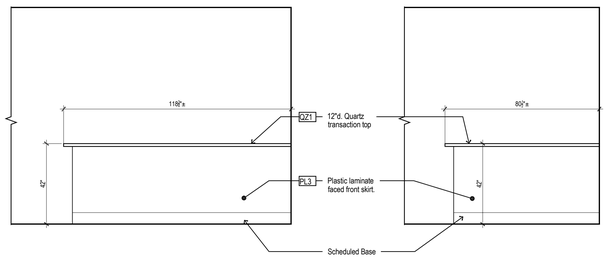


5 Elevation: Millwork
3B03d Storage Cabinets — Scale: 3/8" = 1'-0"



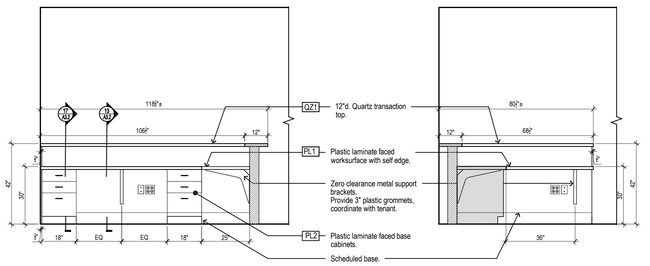
6 Elevation: Millwork
3C18 Diagnostic Test Reading — Scale: 3/8" = 1'-0"

7 Elevation: Millwork
3C18 Diagnostic Test Reading — Scale: 3/8" = 1'-0"



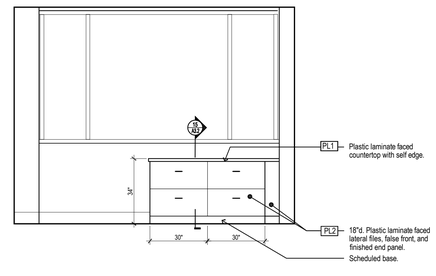
8 Elevation: Millwork
M.A. 3C04 — Scale: 3/8" = 1'-0"

9 Elevation: Millwork
M.A. 3C04 — Scale: 3/8" = 1'-0"

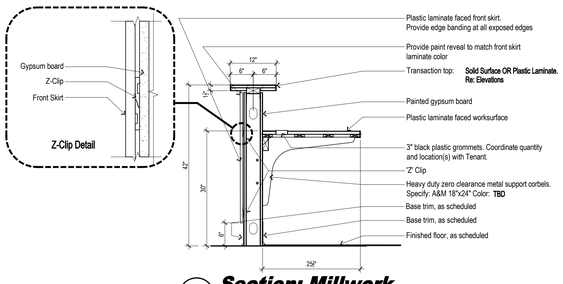


10 Elevation: Millwork
M.A. 3C04 — Scale: 3/8" = 1'-0"

11 Elevation: Millwork
M.A. 3C04 — Scale: 3/8" = 1'-0"



12 Elevation: Millwork
M.A. 3C04 — Scale: 3/8" = 1'-0"



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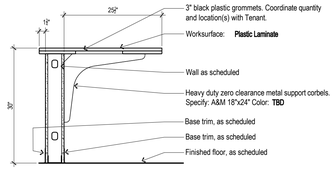
Desk & Transaction Top — Scale: 3/4" = 1'-0"



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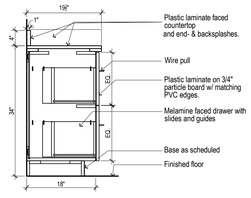
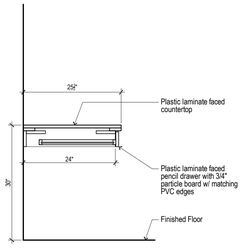
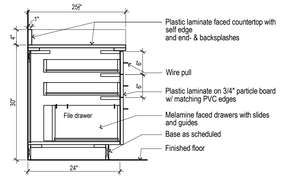
Desk Open Worksurface — Scale: 3/4" = 1'-0"



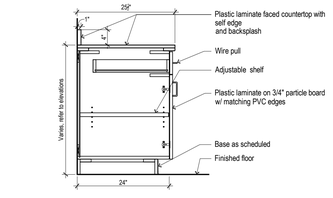
15 Section: Millwork
Base Lateral File — Scale: 3/4" = 1'-0"



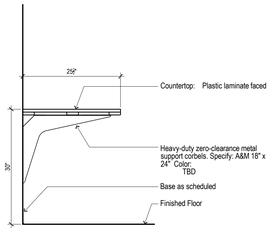
16 Section: Millwork
Base Lateral File — Scale: 3/4" = 1'-0"



17 Section: Millwork
Box Box File — Scale: 3/4" = 1'-0"



18 Section: Millwork
Base Cabinet — Scale: 3/4" = 1'-0"



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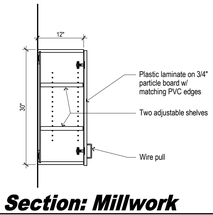
Work Surface — Scale: 3/4" = 1'-0"



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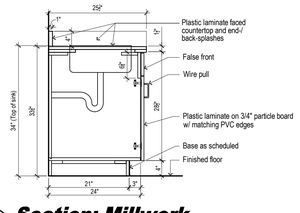
Wall Cabinet — Scale: 3/4" = 1'-0"



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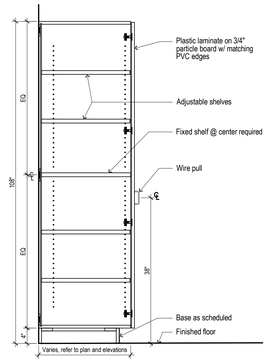
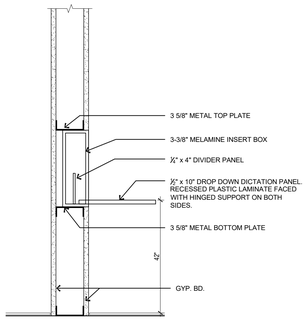
Sink Cabinet — Scale: 3/4" = 1'-0"



22 Section: Millwork
Storage Cabinet — Scale: 3/4" = 1'-0"



23 Section: Millwork
Recessed Dictation Shelf — Scale: 1-1/2" = 1'-0"

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Dec 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

1444 South Potomac • ADCA Remodel & Expansion

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1444 South Potomac
1444 South Potomac Street
Aurora, CO 80012
Suite 300

COLORADO LICENSED 400450 ARCHITECT
12.06.2021

ADCA Remodel & Expansion

Dates of Record
Project Start Date: 6 Apr 2020

Issued On	Issued For
22 Oct 2021	Tenant Review & Approval; and Construction

Sheet Contents: Millwork Elevations, Section Details

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428010	GBS	AC	MH	GBS/AC

A3.2

RSN:1594223 | PERMIT# 2021-2083670-LT

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.

FILTERS
PROVIDE TWO (2) SETS OF PLEATED DISPOSABLE FILTERS. USE ONE SET UNTIL COMPLETION OF CONSTRUCTION. INSTALL ONE SET AT COMPLETION OF CONSTRUCTION. FILTERS TO BE FARR, OR SIMILAR.

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.

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.
- (T) THERMOSTAT TO MATCH EQUIPMENT
- (200) CFM, BALANCE WITHIN 10%
- (M-1) EQUIPMENT DESIGNATION
- SPIN-IN WITH DAMPER
- RETURN AIR ARROW
- SUPPLY AIR ARROW
- CONNECT TO EXISTING

OUTSIDE AIR COMPLIANCE

DESCRIPTION	ROOM #	AREA SF	PEOPLE/1000SF	POPULATION	CFM/PERSON	AREA AIRFLOW RATE	Ez	REQUIRED OUTSIDE AIR CFM	OUTSIDE AIR PROVIDED	EXHAUST AIR REQUIRED	EXHAUST AIR PROVIDED	REMARKS
EXIST. BOARD RM.	3A01	290	50	15	5.0	0.06	0.8	116	120	0	0	
EXIST. OFFICE	3A24	310	5	2	5.0	0.06	0.8	36	40	0	0	
EXIST. WAITING	3B01	910	30	28	5.0	0.06	0.8	243	245	0	0	
NEW RECEPTION	3B02	250	5	2	5.0	0.00	0.8	13	15	0	0	
NEW HALLWAY	3B03	950	0	0	5.0	0.06	0.8	71	75	0	0	
NEW CHECK-OUT	3B04	105	5	1	5.0	0.06	0.8	14	15	0	0	
NEW EXAM	3B05	100	5	1	5.0	0.06	0.8	14	15	0	0	
NEW OFFICE	3B06	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW EXAM	3B07	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW OFFICE	3B08	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW EXAM	3B09	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW OFFICE	3B11	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW EXAM	3B12	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW EXAM	3B13	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW EXAM	3B14	100	5	1	5.0	0.06	0.8	14	15	0	0	
NEW PRINT AREA	3B15	50	5	1	5.0	0.06	0.8	10	15	0	0	
NEW OFFICE	3B16	145	5	1	5.0	0.06	0.8	17	20	0	0	
NEW EXAM	3B17	105	5	1	5.0	0.06	0.8	14	15	0	0	
NEW MA STATION	3B19	120	5	1	5.0	0.06	0.8	15	15	0	0	
NEW OFFICE	3B21	120	5	1	5.0	0.06	0.8	15	15	0	0	
NEW OFFICE	3B23	125	5	1	5.0	0.06	0.8	16	20	0	0	
NEW DICTATION	3B24	55	5	1	5.0	0.06	0.8	10	15	0	0	
NEW MA STATION	3B25	125	5	1	5.0	0.06	0.8	16	20	0	0	
NEW EXAM	3B26	95	5	1	5.0	0.06	0.8	13	15	0	0	
NEW EXAM	3B27	95	5	1	5.0	0.06	0.8	13	15	0	0	
NEW EXAM	3B28	95	5	1	5.0	0.06	0.8	13	15	0	0	
NEW CHECK-OUT	3B31	105	5	1	5.0	0.06	0.8	14	15	0	0	
NEW LAB	3B32	80	5	1	5.0	0.06	0.8	12	15	0	0	
NEW ADA RESTROOM	3B33	50	0	0	0.0	0.00	0.8	0	0	75	75	
NEW TECH ROOM	3B34	60	5	1	5.0	0.06	0.8	11	15	0	0	
NEW DEVICE CHECK	3B35	85	5	1	5.0	0.06	0.8	13	15	0	0	
NEW DEVICE CHECK	3B36	85	5	1	5.0	0.06	0.8	13	15	0	0	
NEW STORAGE	3B37	60	0	0	5.0	0.06	0.8	5	5	0	0	
NEW EXAM	3B38	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW EXAM	3B39	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW OFFICE	3B42	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW EXAM	3B43	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW EXAM	3B44	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW EXAM	3B45	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW OFFICE	3B46	90	5	1	5.0	0.06	0.8	13	15	0	0	
NEW OFFICE	3B47	170	5	1	5.0	0.06	0.8	19	20	0	0	
NEW OFFICE	3B48	165	5	1	5.0	0.06	0.8	19	20	0	0	
NEW EXAM	3B49	110	5	1	5.0	0.06	0.8	15	15	0	0	
NEW EXAM	3B51	100	5	1	5.0	0.06	0.8	14	15	0	0	
NEW EXAM	3B52	85	5	1	5.0	0.06	0.8	13	15	0	0	
NEW ADA RESTROOM	3B53	50	0	0	0.0	0.00	0.8	0	0	75	75	
NEW MA STATION	3C04	290	5	2	5.0	0.06	0.8	34	35	0	0	
NEW EXAM	3C05	100	5	1	5.0	0.06	0.8	14	15	0	0	
NEW EXAM	3C06	95	5	1	5.0	0.06	0.8	13	15	0	0	
NEW EXAM	3C07	95	5	1	5.0	0.06	0.8	13	15	0	0	
NEW OFFICE	3C08	130	5	1	5.0	0.06	0.8	16	20	0	0	
TOTALS		7320		91				1092	1195			

FAN TERMINAL UNIT SCHEDULE

MARK	MFR. & MODEL	AIR INLET SIZE	PRIMARY AIR		HEATING			FAN MOTOR			MCA	MAX FUSE	REMARKS
			MAX. CFM	MIN. CFM	VOLTAGE	KW	CFM	VOLTAGE	HP	FLA			
FTU 3-3	ENVIRO-TEC VFREH	10"Ø	1300	400	277 V / 1-PH	6 KW	1000	277 V / 1-PH	1/4	1.9	29.5	30	1
FTU 3-4	ENVIRO-TEC VFREH	10"Ø	1495	400	277 V / 1-PH	6 KW	1000	277 V / 1-PH	1/4	1.9	29.5	30	1
FTU 3-11	ENVIRO-TEC VFR	10"Ø	1600	400	-	-	-	120V / 1-PH	1/6	2.7	3.4	15	1
FTU 3-13	ENVIRO-TEC VFREH	12"Ø	2300	700	277 V / 1-PH	8 KW	1400	277 V / 1-PH	1/4	1.9	38.5	40	1
FTU 3-14	ENVIRO-TEC VFR	8"Ø	850	200	-	-	-	120 V / 1-PH	1/12	1.1	1.4	15	1
FTU 3-15	ENVIRO-TEC VFREH	12"Ø	1715	600	277 V / 1-PH	8 KW	1400	277 V / 1-PH	1/4	1.9	38.5	40	1
FTU 3-16	ENVIRO-TEC VFR	8"Ø	805	200	-	-	-	120 V / 1-PH	1/12	1.1	1.4	15	1
FTU 3-17	ENVIRO-TEC VFR	8"Ø	830	200	-	-	-	120 V / 1-PH	1/12	1.1	1.4	15	1
FTU 3-18	ENVIRO-TEC VFREH	12"Ø	1830	600	277 V / 1-PH	8 KW	1400	277 V / 1-PH	1/4	1.9	38.5	40	1
FTU 3-A	ENVIRO-TEC VFREH 0806	8"Ø	800	200	277 V / 1-PH	6 KW	800	277 V / 1-PH	1/3	2.6	38.5	40	2, 3, 4

1. EXISTING TO REMAIN.
2. NEW.
3. INTEGRATE INTO EXISTING BAS.
4. PROVIDE ECM MOTOR.

VAV TERMINAL SCHEDULE

MARK	MFR. & MODEL NUMBER	AIR INLET SIZE	MAX. PRIMARY AIR CFM	MIN. PRIMARY AIR CFM	REMARKS
VAV-3-A	ENVIRO-TEC SDR	6"Ø	450	100	1, 2

1. NEW.
2. INTEGRATE INTO EXISTING BAS.

DIFFUSER SCHEDULE

MARK	SERVICE	FACE SIZE	NECK SIZE	FIRE DAMPER	VOLUME DAMPER	MFR	MODEL	REMARKS
A	SUPPLY	-	-	-	-	-	-	EXISTING TO BE REMAIN OR BE RELOCATED TO (N) CEILING GRID
B	SUPPLY	24" x 24"	6"Ø	NO	NO	PRICE	SCD	
C	SUPPLY	24" x 24"	8"Ø	NO	NO	PRICE	SCD	
D	SUPPLY	24" x 24"	10"Ø	NO	NO	PRICE	SCD	
R	RETURN	-	-	-	-	-	-	EXISTING TO BE RELOCATED
R1	RETURN	-	-	-	-	-	-	EXISTING TO REMAIN OR BE RELOCATED. PROVIDE PRICE RETURN AIR CANOPY
R2	RETURN	24" x 12"	22" x 10"	NO	NO	PRICE	PFRF	W/PRICE RAC, RETURN AIR CANOPY
R3	RETURN	24" x 24"	22" x 12"	NO	NO	PRICE	PFRF	
R4	RETURN	24" x 24"	22" x 22"	NO	NO	PRICE	PFRF	W/PRICE RAC, RETURN AIR CANOPY
E1	EXHAUST	10" x 10"	8" x 8"	NO	NO	PRICE	10	

BRIAN SEYFERTH & ASSOCIATES, INC.
PROFESSIONAL ENGINEER

5583 South Prince Street
Littleton, Colorado 80120
Phone: (303) 797-7772
Fax: (303) 797-7773

1444 South Potomac Street
1444 South Potomac Street
Aurora, CO 80012
Suite 300

COLORADO LICENSED PROFESSIONAL ENGINEER

Digitally signed by
Luis R. Cocha
Date: 2021.10.28
14:43:04 -06'00'

ADCA

Dates of Record
Project Start Date: ##########

Issued On:	Issued For:
28 Oct 2021	Tenant's Review & Approval; and Construction

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

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. 2015 IBC 105.4.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Dec 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

Sheet Contents	NOTES AND SCHEDULES
Project Team	
Project Number	21455
Sheet Mark	**M1.0**

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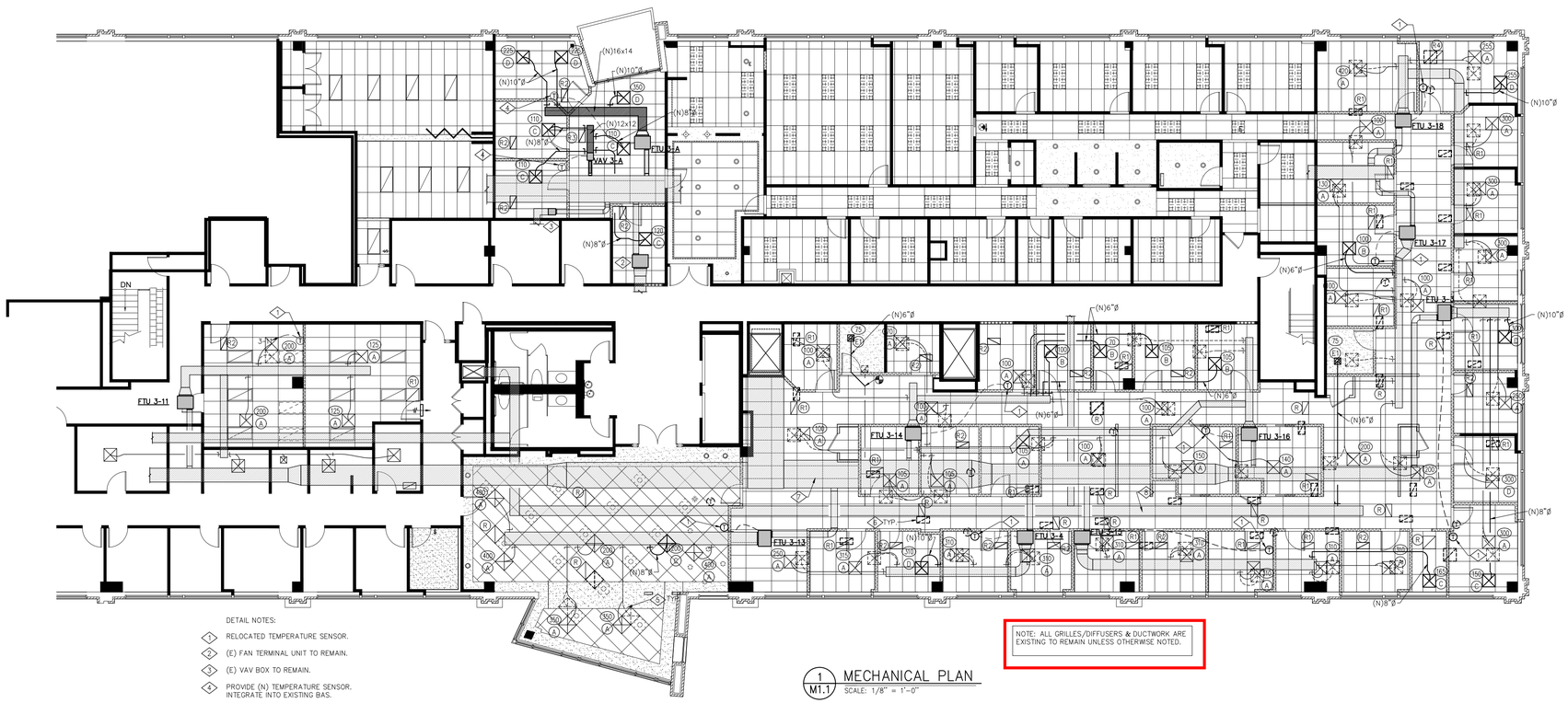
Room Schedule

3A01	Exist. Board Rm.	3B31	New Check-out
3A02	Exist. Hallway	3B32	New Lab
3A03	Exist. Ultrasound	3B33	New ADA Restroom
3A04	Exist. Office	3B34	New Tech Room
3A05	Exist. Med Records	3B35	New Device Check
3A06	Exist. Copy	3B36	New Device Check
3A07	Exist. Office	3B37	New Storage
3A08	Exist. Files	3B38	New Exam
3A09	Exist. Office	3B39	New Exam
3A10	----	3B40	----
3A11	Exist. Print Area	3B41	New Closet
3A12	Exist. Office	3B42	New Office
3A13	Exist. Work Area	3B43	New Exam
3A14	Exist Exam	3B44	New Exam
3A15	Exist. Work Area	3B45	New Exam
3A16	Exist. Exam	3B46	New Office
3A17	Exist. Work Area	3B47	New Office
3A18	Exist. Exam	3B48	New Office
3A19	Exist. Mail Room	3B49	New Exam
3A20	----	3B50	----
3A21	New ADA Restroom	3B51	New Exam
3A22	Exist. Closet	3B52	New Exam
3A23	Exist. Closet	3B53	New ADA Restroom
3A24	Exist. Office	3B54	Public Corridor
3B01	Exist. Waiting	3C01	Public Corridor
3B02	New Reception	3C02	Exist. Waiting
3B03	New Hallway	3C03	Exist. Reception
3B04	New Check-out	3C04	New MA Station
3B05	New Exam	3C05	New Exam
3B06	New Office	3C06	New Exam
3B07	New Exam	3C07	New Exam
3B08	New Office	3C08	New Office
3B09	New Exam	3C09	Exist. Hallway
3B10	----	3C10	Exist. Office
3B11	New Office	3C11	Exist. Exam
3B12	New Exam	3C12	Exist. Exam
3B13	New Exam	3C13	Exist. Exam
3B14	New Exam	3C14	Exist. I.T.
3B15	New Print Area	3C15	Exist. Exam
3B16	New Office	3C16	Exist. Exam
3B17	New Exam	3C17	New Print Area
3B18	New Closet	3C18	New Testing Rm.
3B19	New MA Station	3C19	Exist. Restroom
3B20	----	3C20	----
3B21	New Office	3C21	Exist. Work Areas
3B22	New Closet	3C22	Exist. Closet
3B23	New Office	3C23	Exist. Call Center
3B24	New Dictation	3C24	Exist. Exam
3B25	New MA Station	3C25	Exist. Office
3B26	New Exam	3C26	Exist. Office
3B27	New Exam	3C27	Exist. Office
3B28	New Exam	3D01	Exist. Break Rm.
3B29	New Closet	3D02	Exist. Closet
3B30	----	3D03	Exist. Closet

Plastic fire sprinkler piping exposed within a plenum shall be used only in wet pipe systems and shall have a maximum: peak optical density of 0.50; average optical density of 0.15; flame spread of 5 feet in accordance with UL 1887. Piping shall be listed and labeled.
2015 IMC 602.2.1.2

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



DETAIL NOTES:

1. RELOCATED TEMPERATURE SENSOR.
2. (E) FAN TERMINAL UNIT TO REMAIN.
3. (E) VAV BOX TO REMAIN.
4. PROVIDE (N) TEMPERATURE SENSOR. INTEGRATE INTO EXISTING BAS.
5. RELOCATE (E) DIFFUSER.
6. RELOCATE (E) GRILLE.
7. (E) MEDIUM PRESSURE SUPPLY AIR DUCT TO REMAIN.
8. (E) EXHAUST DUCT TO REMAIN.

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

1 / M1.1 MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Dec 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

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COLORADO LICENSED
BRIAN SEYFERTH
37585
PROFESSIONAL ENGINEER

Digitally signed by
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Date: 2021.10.28
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Sheet Contents	MECHANICAL PLAN
Project Team	
Project Number	21455
Sheet Mark	M1.1

10/14/21 3:16pm, BS (alt=I) N:\2021 PROJECTS\21455 - 1444 S. Potomac - ADCA\21455-M1.1.dwg

RSN:1594223 | PERMIT# 2021-2083670-LT

PLUMBING GENERAL NOTES

GENERAL

SCOPE
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PIPING

SOIL, WASTE AND VENT PIPING
SOIL, WASTE AND VENT PIPING 10" AND SMALLER SHALL BE SERVICE WEIGHT, HUBLESS, CAST IRON PIPE AND FITTINGS CONFORMING WITH THE REQUIREMENTS OF CISPI STD 301, ASTM A888 OR ASTM A74, WITH NEOPRENE GASKET AND STAINLESS STEEL SHIELD AND CLAMP. PROVIDE HUB-TYPE PIPE AND FITTINGS BELOW GRADE WHERE REQUIRED BY LOCAL CODES. PIPE AND FITTINGS SHALL BE MARKED WITH THE CISPI TRADEMARK. SCHEDULE 40 ABS OR PVC PIPE AND FITTINGS WITH SOLVENT WELD MAY BE SUBSTITUTED FOR SOIL, WASTE AND VENT PIPING ABOVE AND BELOW GRADE IF ALLOWED BY LOCAL AUTHORITY, EXCEPT WHEN USED IN RETURN AIR PLENUMS OR WHEN PENETRATING RATED ASSEMBLIES. HORIZONTAL RUNS SHALL DRAIN AT A GRADE OF 1/4 INCH PER FOOT WHERE POSSIBLE BUT IN NO CASE LESS THAN 1/8" PER FOOT. COORDINATE WITH LOCAL AUTHORITIES FOR DRAINAGE REQUIREMENTS FOR EQUIPMENT DESIGNATED WITH INDIRECT WASTE TO FLOOR DRAINS. PROVIDE PIPED DRAIN TO SANITARY IF REQUIRED BY LOCAL JURISDICTION.

DOMESTIC WATER PIPING
DOMESTIC WATER PIPING 2" AND SMALLER SHALL BE COPPER TUBE WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH LEAD FREE SOLDER. PROVIDE TYPE "L" COPPER TUBE ABOVE GRADE AND TYPE "K" BELOW GRADE. PRESS-FIT FITTINGS ARE NOT PERMITTED.

HANGERS & SUPPORTS
THE PLUMBING CONTRACTOR SHALL FURNISH ALL PIPE SUPPORTS REQUIRED FOR HIS EQUIPMENT AND MATERIAL. HANGERS AND PIPE ATTACHMENTS TO BE FACTORY FABRICATED WITH GALVANIZED COATINGS; NONMETALLIC COATED FOR HANGERS IN DIRECT CONTACT WITH COPPER TUBING.

CONNECTIONS
INSTALL UNIONS ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS. SCREW JOINT STEEL PIPING UP TO AND INCLUDING 1-1/2". WELD PIPING USE LEAD FREE SOLDER FOR SOLDERING DOMESTIC WATER COPPER PIPE.

CLEANOUTS
PROVIDE J.R. SMITH OR EQUIVALENT FLOOR AND WALL CLEANOUTS AS INDICATED ON THE DRAWINGS OR WHERE REQUIRED IN ALL SOIL, WASTE, AND DRAIN LINES. IN AREAS WITH CERAMIC TILE OR CARPETED FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP. IN AREAS WITH RESILIENT FLOORING, PROVIDE CLEANOUTS WITH SQUARE, ADJUSTABLE, NICKEL BRONZE TOP WITH TILE RECESS. CLEANOUTS SHALL BE SAME SIZE AS PIPE EXCEPT THAT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED. WHERE CLEANOUTS OCCUR IN WALLS OF FINISHED AREAS, THEY SHALL BE CONCEALED BEHIND CHROME PLATED ACCESS COVERS.

INSTALLATION
INSTALL PIPING FREE OF SAGS AND BENDS. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS. INSTALL SLEEVES FOR PIPES PASSING THROUGH CONCRETE AND MASONRY WALLS, GYPSUM-BOARD PARTITIONS, CONCRETE FLOOR, AND ROOF SLABS. SEAL PIPE PENETRATIONS THROUGH RATED CONSTRUCTION WITH FIRESTOPPING SEALANT MATERIAL. UNDERGROUND WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE, EXCAVATED TO THE PROPER DEPTH AND GRADED TO PRODUCE THE REQUIRED FALL.

TESTING
ALL PIPES SHALL BE TESTED BY AN APPROVED METHOD BEFORE THEY ARE BACKFILLED OR CONCEALED.

VALVES

GENERAL
PLUMBING CONTRACTOR TO PROVIDE VALVES WHERE INDICATED ON PLANS AND AS NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. INSTALL VALVES FOR EACH FIXTURE AND ITEM OF EQUIPMENT. PROVIDE BRAIDED STAINLESS STEEL HOSE (UNLESS OTHERWISE NOTED) BETWEEN VALVE AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. LOCATE SHUT-OFF VALVES ADJACENT TO EQUIPMENT FOR EASY ACCESS SUCH THAT VALVES CAN BE REACHED WITHOUT MOVING EQUIPMENT.

VALVES
PROVIDE VALVES FOR WORKING PRESSURE IN WATER PIPING OF 125 PSI OR GREATER.

INSULATION

WATER PIPING
PROVIDE THERMAL INSULATION ON ALL HOT & COLD WATER PIPING. USE SELF-SEALING CLOSED CELL FOAM OR JACKETED FIBERGLASS INSULATION WITH MANUFACTURER APPROVED ADHESIVES, SEALERS, AND COATINGS. ALL MATERIALS USED SHALL NOT EXCEED 25 FOR FLAME SPREAD, 50 FOR FUEL CONTRIBUTED, OR 50 FOR SMOKE DEVELOPED.

SAFETY COVERS
INSTALL NO-SCALD SAFETY COVERS WITH INSULATED FOAM LINER AND TAMPER PROOF STRAP AT ALL EXPOSED HOT WATER & WASTE PIPING.

MISC PLUMBING FIXTURES

OWNER FURNISHED CONTRACTOR INSTALLED
PLUMBING FIXTURES/EQUIPMENT (E.G., ICE MAKER, ETC.)

THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO EQUIPMENT INCLUDING REQUIRED MATERIAL SUCH AS PIPING, VALVES, FILTERS, TRAPS, CHECKS VALVES, VACUUM BREAKERS, AND FLEXIBLE AND RIGID TUBING.

ALL FLEXIBLE SUPPLY LINES TO BE BRAIDED STAINLESS STEEL WITH METAL COUPLINGS.

PROVIDE INSULATION FOR PIPING THAT SERVES HEATING OR COOLING SYSTEMS. MIN. R-VALUE PER 2015 IECC, TABLE C403.2.10

Faucets or lavatories located in restrooms intended for public use shall be of the metering type or self-closing. 2016 COA Sec 22-326

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	TW	W	REMARKS
P100	WATER CLOSET	TOTO	CST454CEFG	1/2"			3"	COLOR WHITE, W OPEN SEAT, 17" FLOOD RIM W/ FLUIDMASTER PRO45B FILL VALVE
P103	LAVATORY	KOHLER	K-2005				1 1/4"	COLOR WHITE
P104	LAVATORY FAUCET	DELTA	501-DST	1/2"		1/2"		
P114	BELOW SINK TEMPERING VALVE	WATTS	LFUSG-B	1/2"	1/2"	1/2"		
P122	FLOOR DRAIN	JR SMITH	2005Y0205(A) NB				2"	W/ Quad Close Trap Seal -Jr Smith 2692-02
P127	EYE WASH - FAUCET MOUNT	GUARDIAN	G1100					W/ G3600LF TEMPERING VALVE
P142	SS SINK	ELKAY	LRAD2521				2"	
P143	FAUCET	DELTA	26C3944	1/2"	1/2"			
P144	SS SINK	ELKAY	BLR15				2"	
P145	FAUCET	DELTA	27C4944	1/2"	1/2"			

MINIMUM HYDRONIC & DOMESTIC HOT WATER PIPE INSULATION THICKNESS (IN INCHES)

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)				
	CONDUCTIVITY BTU - IN./(H - FT² - °F)[B]	MEAN RATING TEMPERATURE, °F	LESS THAN 1	1 TO < 1-1/2	1-1/2 TO < 4	4 TO < 8	≥ 8
201 -250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0

PIPE HANGER SPACING REQUIREMENTS

MATERIAL	SIZE	MAX HORIZONTAL SPACING	MAX VERTICAL SPACING
ABS	ALL	4'	10'
CAST IRON < 10'	ALL	5'	15'
CAST IRON > 10'	ALL	10'	15'
COPPER	< 1-1/2	6'	10'
COPPER	≥ 1-1/2	10'	10'
PEX	ALL	32"	10'
PVC	ALL	4'	10'

PLUMBING SYMBOLS LEGEND

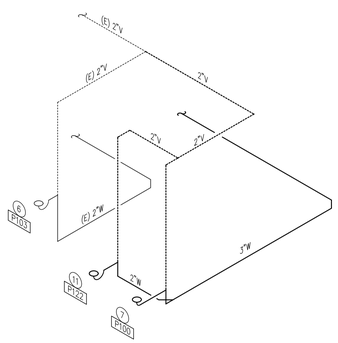
- WASTE PIPING
- VENT PIPING
- COLD WATER PIPING
- HOT WATER PIPING
- G — GAS PIPING
- BALL VALVE
- HOSE BIBB
- WCO — WALL CLEANOUT
- FLOOR CLEANOUT
- FLOOR DRAIN
- CONNECT TO EXISTING

PIPE SIZE EQUIVALENTS

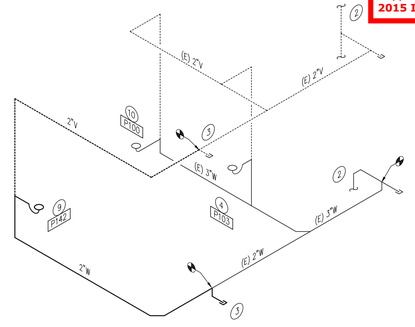
DESIGN SIZE	NOMINAL COPPER TUBE	NOMINAL PEX	NOMINAL BLACK IRON	CSST EHD
½"	½"	½"	½"	18
¾"	¾"	1"	¾"	23
1"	1"	1¼"	1"	31
1¼"	1¼"	1½"	1¼"	37
1½"	1½"	2"	1½"	47
2"	2"	-	2"	60

PLUMBING PLAN NOTES

1. (E) 1½"CW, 1½"HW, 4"W, 3"V RISER.
2. (E) 2"CW, 2"HW, 4"W, 3"V RISER.
3. DEMO (E) SINK CAP PIPING.
4. REMOVE (E) SINK. RELOCATE ALL PLUMBING LINES TO NEW SINK LOCATION.
5. CONNECT TO EXISTING 4"W. FIELD VERIFY EXACT LOCATION.
6. REMOVE (E) SINK AND REPLACE WITH NEW. RE-CONNECT ALL PLUMBING LINES. PROVIDE BELOW COUNTER TEMPERING VALVE.
7. 3"W, 2"V, ½" CW TO TOILET.
8. 2"W, 2"V, ½" CW AND HW TO SINK. PROVIDE BELOW COUNTER TEMPERING VALVE.
9. 2"W, 2"V, ½" CW AND HW TO SINK. PROVIDE FAUCET MOUNT EYEWASH WITH TEMPERING VALVE. CONNECT TEMPERING VALVE TO EYE WASH ONLY.
10. REMOVE (E) TOILET AND REPLACE WITH NEW. RE-CONNECT ALL PLUMBING LINES.
11. 2"W AND 2"V TO FLOOR DRAIN.



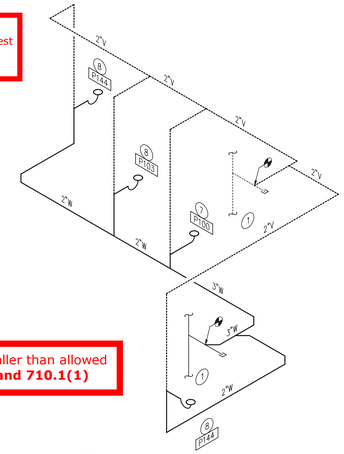
7 P1.1 WASTE PIPING ISOMETRIC
SCALE: NTS



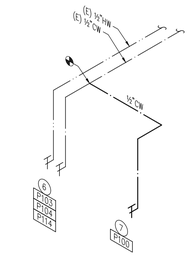
6 P1.1 WASTE PIPING ISOMETRIC
SCALE: NTS

The dry vent must rise 6" vertically above the flood level rim of the highest trapped fixture being vented.
2015 IPC 905.4

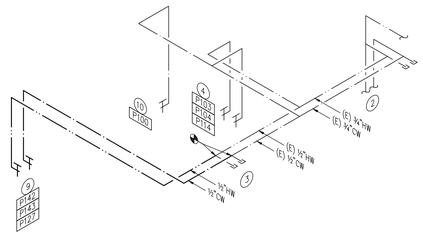
Provide drains no smaller than allowed by **2015 IPC 709.1 and 710.1(1)**



5 P1.1 WASTE PIPING ISOMETRIC
SCALE: NTS



4 P1.0 PLUMBING ISOMETRIC
SCALE: NTS



3 P1.1 PLUMBING ISOMETRIC
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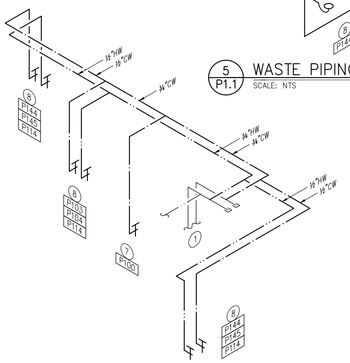
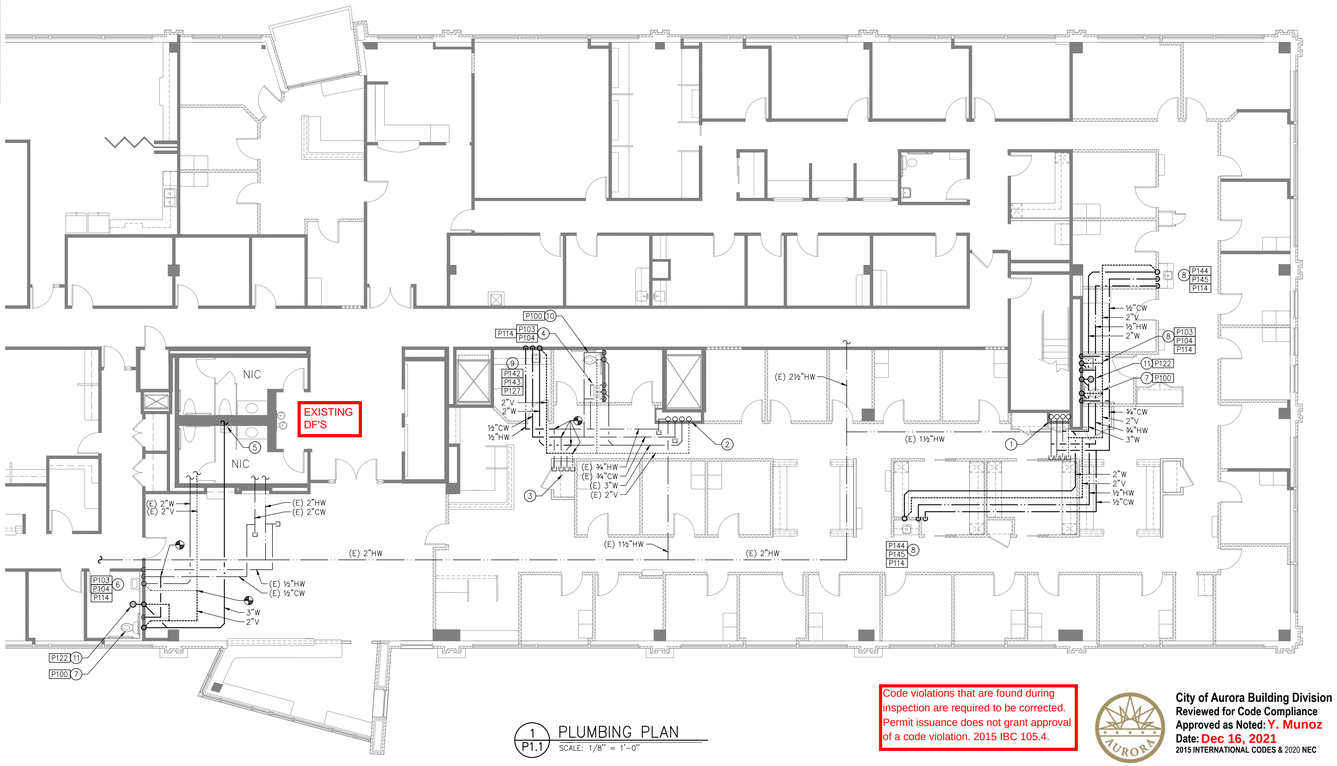


2 P1.0 PLUMBING ISOMETRIC
SCALE: NTS



1 P1.1 PLUMBING PLAN
SCALE: 1/8" = 1'-0"

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. 2015 IBC 105.4.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Y. Munoz
Date: Dec 16, 2021
2015 INTERNATIONAL CODES & 2020 NEC

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COLORADO LICENSED LUIS RAUL COCHA PROFESSIONAL ENGINEER

Digitally signed by Luis R. Cocha
Date: 2021.10.28 ~~14:13:48 -06'00'~~

ADCA

Dates of Record
Project Start Date: ##########

Issued On	Issued For:
28 Oct 2021	Tenant's Review & Approval; and Construction

Sheet Contents: PLUMBING PLAN AND NOTES
Project Team
Project Number: 21455
Sheet Mark: **P1.1**

10/28/21 2:40pm, BS (at=1) N:\2021 PROJECTS\21455 - 1444 S. Potomac - ADCA\21455-P1.1.dwg

ELECTRICAL GENERAL NOTES - APPLICABLE TO ALL ELECTRICAL SHEETS

1. PRIOR TO SUBMITTING BIDS THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING ELECTRICAL EQUIPMENT CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. FIELD VERIFY QUANTITIES OF EXISTING LIGHT FIXTURES, ELECTRICAL DEVICES, COMMUNICATION DEVICES, FIRE ALARM DEVICES, AND ELECTRICAL EQUIPMENT. NOTIFY THE ARCHITECT AND ENGINEER OF ANY EXISTING CONDITIONS WHICH MODIFY THE SCOPE OF WORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS. SUBMISSION OF A BID PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR MOBILIZATION, LABOR, EQUIPMENT, AND/OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.

2. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES WHOSE WORK RELATES TO OR IS DEPENDENT ON ELECTRICAL WORK TO BECOME FULLY INFORMED OF THE EXTENT AND CHARACTER OF THEIR SPECIFIED WORK AND BE ABLE TO COORDINATE IT WHILE AVOIDING POSSIBLE INTERFERENCE WITH THE ELECTRICAL WORK.

3. IT IS THE INTENTION OF THESE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY FOR USE." "REPLACE" SHALL MEAN TO PUT NEW IN PLACE OF EXISTING. THE ARCHITECTURAL GENERAL AND SPECIAL CONDITIONS FOR THE WORK OF THIS PROJECT AND BASE BUILDING SPECIFICATIONS SHALL BE PART OF THE ELECTRICAL SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE GENERAL AND SPECIAL CONDITIONS BEFORE SUBMITTING A BID.

4. ALONGSIDE SUBMISSION OF THE BID, THE ELECTRICAL CONTRACTOR SHALL GIVE WRITTEN NOTICE TO THE ARCHITECT/ENGINEER OF ANY NECESSARY ITEMS OR WORK THAT HAVE BEEN OMITTED FROM THE DRAWINGS OR SPECIFICATIONS. IN THE ABSENCE OF SUCH WRITTEN NOTICE, IT IS MUTUALLY AGREED THAT THE ELECTRICAL CONTRACTOR HAS INCLUDED THE COST OF ALL REQUIRED ITEMS IN HIS BID, AND THAT THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE APPROVED SATISFACTORY FUNCTIONING OF THE ENTIRE SYSTEM WITHOUT EXTRA COMPENSATION.

5. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE AND SATISFACTORY ELECTRICAL INSTALLATION IN ACCORDANCE WITH THE TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS. HE SHALL PROVIDE, WITHOUT EXTRA CHARGE, ALL INCIDENTAL ITEMS REQUIRED, AS A PART OF THIS ELECTRICAL INSTALLATION. THE INSTALLATION SHALL BE SO MADE THAT ITS SEVERAL COMPONENT PARTS WILL FUNCTION TOGETHER AS A WORKABLE SYSTEM AND SHALL BE LEFT WITH ALL PARTS ADJUSTED AND IN WORKING ORDER.

6. ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LOCAL FEES, PERMITS, AND SERVICES OF INSPECTION AUTHORITIES REQUIRED BY ELECTRICAL WORK FOR THIS ELECTRICAL CONSTRUCTION. FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS, AND OBTAIN ALL NECESSARY APPROVALS REQUIRED BY ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL REMAIN EXPOSED TO VIEW UNTIL APPROVED BY THE INSPECTION AUTHORITY.

7. ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE WITH OWNER REPRESENTATIVES. ALL ELECTRICAL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM WITH LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, LOCAL BUILDING AND FIRE DEPARTMENT REQUIREMENTS. PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF OWNER REPRESENTATIVE.

8. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY CHANGES REQUIRED BY THE BUILDING MANAGEMENT AND TENANT REPRESENTATIVES.

9. BEFORE STARTING WORK, ELECTRICAL CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ARCHITECT/ENGINEER FIVE (5) SETS OF SHOP DRAWINGS, BROCHURES, INSTALLATION INSTRUCTIONS, AND DESCRIPTIVE EQUIPMENT DATA RELATED TO SPECIFIED EQUIPMENT, WIRING DEVICES, AND ACCESSORIES FOR APPROVAL. ELECTRONIC SUBMITTALS (PDF OR SIMILAR) ARE ACCEPTABLE WITH PRIOR APPROVAL FROM THE ARCHITECT. THE CONTRACTOR SHALL IDENTIFY ANY "LONG LEAD TIME" ITEMS WHICH MAY IMPACT THE OVERALL PROJECT SCHEDULE. ALL BIDS SHALL INCLUDE COSTS ASSOCIATED WITH THE PURCHASE AND DELIVERY OF EQUIPMENT TO MEET THE PROJECT SCHEDULE. NO EQUIPMENT SHALL BE ORDERED, PURCHASED, OR INSTALLED PRIOR TO THE APPROVAL OF SHOP DRAWINGS, BROCHURES, INSTALLATION INSTRUCTIONS, AND SCHEDULES. APPROVAL BY THE ARCHITECT/ENGINEER IS INTENDED TO ESTABLISH CONFORMANCE WITH THE PROJECT DESIGN CONCEPT AND THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.

10. THE NAMING OF THE MANUFACTURER OR BRAND WITH CATALOG NUMBER OR OTHER PRODUCT IDENTIFICATION WITHOUT THE WORDS "OR EQUAL" IN THE SPECIFICATIONS OR NOTES SHALL INDICATE THAT IT IS THE ONLY PRODUCT APPROVED FOR PURCHASE. IF THE WORDS "OR EQUAL" ARE USED THEY SHALL BE INTERPRETED AS ESTABLISHING A QUALITY OR PERFORMANCE STANDARD FOR THE MATERIAL OR PRODUCT TO BE PURCHASED. THIS SHALL INDICATE THAT THE ELECTRICAL CONTRACTOR IS NOT RESTRICTED TO THE USE OF THE NAMED AND IDENTIFIED PRODUCT IF A SUBSTITUTE APPROVED BY THE ARCHITECT/ENGINEER IS AVAILABLE. HOWEVER, WHERE A SUBSTITUTION IS REQUESTED, IT WILL BE PERMITTED ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. NO SUBSTITUTE MATERIAL OR PRODUCT SHALL BE ORDERED, FABRICATED, SHIPPED OR PROCESSED IN ANY MATTER PRIOR TO THE APPROVAL OF THE ARCHITECT/ENGINEER. THE ELECTRICAL CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ADDITIONAL EXPENSES AS REQUIRED MAKING CHANGES FROM THE ORIGINAL MATERIAL OR PRODUCT SPECIFIED.

11. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SHALL BE SUBJECT TO MINOR MODIFICATIONS AS DIRECTED BY THE GENERAL CONTRACTOR AND OWNER REPRESENTATIVES. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT FITTING OF ALL MATERIALS, EQUIPMENT, ETC., IN THE BUILDING AND TENANT SPACE. ALL DIMENSIONS SHALL BE VERIFIED ON THE JOB.

12. DRAWINGS SHALL NOT BE SCALED FOR ROUGH-IN MEASUREMENTS OR USED AS SHOP DRAWINGS, WHERE DIMENSIONS ARE SHOWN ON PLANS OR DETAILS, THESE DIMENSIONS ARE TO BE FIELD-VERIFIED BY THE ELECTRICAL CONTRACTOR AGAINST EXISTING FIELD CONDITIONS, INSTALLATION REQUIREMENTS OF OTHER TRADES, AND THE MANUFACTURER'S SUBMITTALS FOR EQUIPMENT TO BE INSTALLED. SHOULD ANY CONFLICTS ARISE WHICH CANNOT BE EASILY RESOLVED IN THE FIELD WITHOUT CHANGING THE DESIGN INTENT, THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

13. WHILE ALL WORK IS IN PROGRESS, EXCEPT FOR SHORT DESIGNATED INTERVALS DURING WHICH CONNECTIONS ARE TO BE MADE, CONTINUITY OF SERVICE TO ALL EXISTING SYSTEMS SERVING OCCUPIED SPACES SHALL BE MAINTAINED. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH OWNER AT ALL TIMES FOR ALL NEW-TO-EXISTING CONNECTIONS, SYSTEM SHUTDOWNS, AND RESTART-UP.

14. ANY WORK WHICH WILL AFFECT THE BUILDING OCCUPANTS, INCLUDING, BUT NOT LIMITED TO WORK WHICH GENERATES EXCESSIVE NOISE, DUST, SMOKE, OR INCONVENIENCE TO BUILDING OCCUPANTS, SHALL BE PERFORMED AFTER BUSINESS HOURS. UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE BUILDING MANAGER OR OWNER.

15. ELECTRICAL ITEMS AFFECTED BY REMODEL WORK ARE SHOWN ON DRAWINGS ALONG WITH EXISTING ELECTRICAL INSTALLATION SHOWN WITH LIGHT LINE WEIGHT. EXISTING ELECTRICAL INSTALLATION SHOWN IS NOT NECESSARILY ALL-INCLUSIVE. RETAIN CIRCUIT CONTINUITY FOR EXISTING ELECTRICAL EQUIPMENT, FIXTURES, AND DEVICES THAT ARE TO REMAIN. SUCH EQUIPMENT SHALL BE RECONNECTED TO EXISTING CIRCUITS OR CONNECTED TO NEW CIRCUIT(S) AS INDICATED ON DRAWINGS. ENSURE ALL ELECTRICAL DEVICES IN WORK AREA ARE FULLY FUNCTIONAL. FOR DEVICES OR JUNCTION BOXES LOCATED IN WALLS, THAT MUST REMAIN IN PLACE FOR CIRCUIT CONTINUITY, PROVIDE BLANK COVER PLATES TO MATCH WALL PLATES STYLE IN THE AREA OF WORK. FOR ALL OTHER UNUSED JUNCTION BOXES, REMOVE WIRING AND PROVIDE BLANK COVER PLATE, OR COORDINATE WITH GENERAL CONTRACTOR FOR PATCHING OF WALL TO MATCH ADJACENT SURFACE AS DIRECTED BY ARCHITECT. WHERE EXISTING DEVICES CONFLICT WITH NEW WALL CONSTRUCTION, RELOCATE EXISTING DEVICE AND REWORK CIRCUITRY AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY. DEVICES MAY ONLY BE REMOVED WITH PRIOR APPROVAL FROM THE DESIGN TEAM AND BUILDING MANAGEMENT. COORDINATE FINAL DIRECTIONS WITH ARCHITECT PRIOR TO DEMOLITION.

16. REPORT ANY EXISTING DAMAGED EQUIPMENT OR SYSTEMS TO THE OWNER PRIOR TO BEGINNING THE PROJECT.

17. BEFORE ANY EQUIPMENT IS INSTALLED, DETERMINE THAT SAID EQUIPMENT WILL PROPERLY FIT WITHIN THE SPACE ALLOCATED. INSTALL ALL EQUIPMENT AND MATERIALS IN SUCH A MANNER AS TO PROVIDE REQUIRED ACCESS FOR SERVICING AND MAINTENANCE. ALLOW AMPLE SPACE FOR REMOVAL OF ALL PARTS THAT REQUIRE REPLACEMENT OR SERVICING.

18. MINIMUM WORKING CLEARANCES PER THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE SHALL BE PROVIDED AROUND AND IN FRONT OF ALL ELECTRICAL EQUIPMENT.

19. ALL CIRCUIT BREAKER LUGS SHALL BE RATED FOR A MINIMUM OF 75 DEGREES CELSIUS.

20. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UNDAMAGED, BEAR THE UL LABEL WHERE APPLICABLE, AND BE AS SPECIFIED FOR USE IN EACH SPECIFIC LOCATION. ANY INCIDENTAL ACCESSORIES NECESSARY TO COMPLETE THE WORK IN ALL RESPECTS AND MAKE IT READY FOR OPERATION, EVEN IF NOT SPECIFICALLY SPECIFIED, SHALL BE FURNISHED, DELIVERED, AND INSTALLED BY THE ELECTRICAL CONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE CLIENT.

21. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF A SYSTEM OR EQUIPMENT, SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S ESTIMATE, AS IF SPECIFIED HEREIN OR SHOWN.

22. ALL NEW, RELOCATED AND EXISTING MATERIALS, IN CEILING PLENUMS NOT ENCLOSED IN CONDUIT SHALL HAVE CLASS, FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS AS REQUIRED FOR USE IN OPEN PLENUMS. REMOVE AND REPLACE ALL EXISTING MATERIALS IN WORK AREA NOT IN COMPLIANCE.

23. COORDINATE THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT ABOVE AND BELOW CEILINGS WITH SUSPENSION SYSTEM, MECHANICAL EQUIPMENT, AND OTHER BUILDING COMPONENTS. ALL COMPONENTS SHALL BE LOCATED AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE CEILING CAVITY SPACE CAREFULLY WITH ALL TRADES.

24. NEUTRALS, RACEWAYS, AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN FULL ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROVIDE HARD WIRE GROUND CONNECTIONS TO ALL DEVICES AND SEPARATE, CONTINUOUS, INSULATED GROUND WIRE IN EACH CIRCUIT (#12 CU MINIMUM "GREEN" TRACER GROUND). COORDINATE EQUIPMENT GROUNDING CONDUCTOR WIRE SIZE WITH MANUFACTURER REQUIREMENTS.

25. CONDUIT JOINTS SHALL BE CUT SQUARE, THREADED, REAMED SMOOTH, AND DRAWN UP TIGHT. BENDS OR OFFSETS SHALL BE MADE WITH AN APPROVED BENDER OR HICKEY, OR HUB-TYPE CONDUIT FITTINGS. THE NUMBER OF BENDS PER RUN SHALL CONFORM TO THOSE STATED IN CURRENT NEC.

26. WHERE POSSIBLE ALL WIRING SHALL BE RUN CONCEALED. ALL HOME RUNS SHALL BE EMT. CONCEALED CONDUIT SYSTEMS SHALL BE RUN IN A DIRECT LINE WITH LONG SWEEP BENDS AND AND OFFSETS. EXPOSED CONDUIT RUNS SHALL BE PARALLEL TO AND AT RIGHT ANGLES TO BUILDING LINES, USING CONDUIT FITTINGS FOR ALL TURNS AND OFFSETS. ALL EMPTY CONDUITS SHALL BE SUPPLIED WITH PULL WIRES AND BUSHINGS.

27. "MC" AND "AC" TYPE CABLE WITH INTERNAL GROUND WIRES SHALL BE PERMITTED FOR BRANCH CIRCUIT WIRING WHERE APPROVED IN WRITING BY BUILDING MANAGEMENT AND THE LOCAL AHJ ONLY AND INSTALLED PER NATIONAL ELECTRICAL CODE AND LOCAL BUILDING DEPARTMENT REQUIREMENTS. USE LISTED AND APPROVED TYPE COUPLINGS AND CONNECTORS. PROVIDE CONDUIT SUPPORTS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AS A MINIMUM.

28. ALL ROOF PENETRATIONS SHALL BE SEALED WATER TIGHT, PROVIDE FLASHING AND COUNTER FLASHING AS REQUIRED. COORDINATE ROOFING WORK WITH THE GENERAL CONTRACTOR.

29. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION AND PULL BOXES TO PROVIDE ACCESS POINTS FOR PULLING AND FEEDING CONDUCTORS INTO A RACEWAY SYSTEM. JUNCTION AND PULL BOXES AND THEIR COVERS SHALL BE FORMED FROM SHEET STEEL AND SHALL BE FINISHED IN GRAY ENAMEL PAINT. BOXES SHALL BE IN INDUSTRY STANDARD SIZES. OUTLET BOXES WITH THE CORRECT FITTING FOR THE APPLICATION SHALL BE LOCATED AT EACH CONDUCTOR SPLICE POINT, AT EACH OUTLET, SWITCH POINT, OR JUNCTION POINT, AND AT EACH PULL POINT FOR THE CONNECTION OF CONDUIT AND OTHER RACEWAYS. OUTLET BOXES FOR CONCEALED WIRING SHALL BE MADE FROM GALVANIZED OR CADMIUM-PLATED SHEET STEEL, AND THEY SHALL HAVE A DEPTH OF AT LEAST 1.5 INCHES, WHETHER SINGLE OR GANGED. THE BOXES SHALL BE LARGE ENOUGH SIZE TO ACCOMMODATE THE NUMBER OF WIRING DEVICES AND CONDUCTORS AS SPECIFIED IN THE FILL SCHEDULE OF THE CURRENT NEC. SECURE BOXES WITH MOUNTING BRACKET, BRACES, HANGER OR BOX MOUNTING SUPPORT.

30. ALL NEW SWITCHES, POWER OUTLETS, TELEPHONE OUTLETS, FIRE ALARM DEVICES, AND COMMUNICATIONS OUTLETS SHALL MEET THE REQUIREMENTS FOR AMERICANS WITH DISABILITIES (A.D.A) MOUNTING HEIGHTS AND ORIENTATIONS, TYPICAL UNLESS OTHERWISE NOTED. RECEPTACLES SHALL BE A MINIMUM OF 15" A.F.F. AND SWITCHES A MAXIMUM OF 48" A.F.F. TO CENTERLINE, TYPICAL UNLESS OTHERWISE NOTED.

31. ALL WALL MOUNTED OUTLETS SHALL BE OFFSET SO THEY ARE NOT BACK TO BACK, FOR SOUND TRANSMISSION PURPOSES. A HORIZONTAL DISTANCE OF AT LEAST 6 INCHES SHALL SEPARATE OUTLET BOXES ON OPPOSITE SIDES OF WALLS AND PARTITIONS. MOUNT ELECTRICAL AND COMMUNICATIONS OUTLETS ON WALLS AS CLOSE TOGETHER AS POSSIBLE.

32. WIRING DEVICES SHALL BE SPECIFICATION GRADE. MINIMUM DEVICE RATING SHALL BE 20 AMPS FOR ALL WIRING DEVICES UNLESS SPECIFICALLY NOTED OTHERWISE. DEVICES WITH DEDICATED CIRCUITS SHALL BE RATED AS REQUIRED BY CIRCUIT LOAD. ISOLATED GROUND RECEPTACLES SHALL BE ORANGE. MATCH COLOR AND TYPE TO EXISTING BUILDING STANDARD. PROVIDE MATCHING NYLON COVER PLATES FOR ALL OUTLETS. ELECTRICAL CONTRACTOR SHALL VERIFY ALL OUTLETS WITH ARCHITECTURAL PLANS AND TENANT BEFORE ORDERING AND PURCHASING OF MATERIALS.

33. FIRE RESISTIVE WALLS AND PARTITIONS MAY HAVE OPENINGS FOR STEEL ELECTRICAL OUTLET BOXES NOT EXCEEDING 16 SQUARE INCHES IN AREA, PROVIDED THE AGGREGATE AREA OF SUCH OPENINGS IS NOT MORE WITH THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL. A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES SHALL SEPARATE OUTLET BOXES ON OPPOSITE SIDES OF FIRE RESISTIVE WALLS AND PARTITIONS.

34. ALL JUNCTION BOX COVERS SHALL BE INDELIBLY LABELED WITH PANEL DESIGNATION AND BRANCH CIRCUIT NUMBER OF EACH WIRE WITHIN THE JUNCTION BOX. PANELS/DISCONNECTS/TRANSFORMERS AND SIMILAR MUST BE LABELED WITH THEIR SOURCE AND WITH CALCULATED AIC VALUE/DATE.

35. ALL WIRING SHALL BE COPPER, TYPE THHN OR THWN INSULATION, UNLESS SPECIFICALLY NOTED OTHERWISE. MINIMUM SIZE SHALL BE #12 AWG. CONDUCTORS SHALL BE FACTORY COLOR-CODED WITH WIRE COLOR CODING AS REQUIRED BY THE NATIONAL ELECTRICAL CODE AND USING STANDARD CONDUCTOR COLOR CODES:

120/208 VOLTS:		277/480 VOLTS:	
A:	BLACK	A:	BROWN
B:	RED	B:	ORANGE
C:	BLUE	C:	YELLOW
NEU:	WHITE	NEU:	GRAY
GND:	GREEN	GND:	GREEN
ISO. G:	GREEN W/YELLOW STRIPE		

36. RECEPTACLES FOR COMPUTERS, COPIERS, AND PRINTERS, WHICH ARE SEMI-DEDICATED, DEDICATED, OR ISOLATED, SHALL HAVE A SEPARATE NEUTRAL AND DEDICATED GROUND CONDUCTOR RUN FROM THE BRANCH CIRCUIT PANEL BOARD.

37. ALL JOINTS OR SPLICES FOR 10 AWG. CONDUCTORS OR SMALLER SHALL BE MADE WITH UL-APPROVED WIRE NUTS, OR COMPRESSION-TYPE CONNECTORS.

38. ALL JOINTS OR SPLICES FOR CONDUCTORS 8 AWG AND LARGER SHALL BE MADE WITH A MECHANICAL COMPRESSION OR BOLTED CONNECTOR. AFTER THE CONDUCTORS HAVE BEEN MADE MECHANICALLY AND ELECTRICALLY SECURE, THE ENTIRE JOINT OR SPLICE SHALL BE COVERED WITH 3M SCOTCH BRAND NO. 33 TAPE OR APPROVED EQUAL, TO MAKE THE INSULATION VALUE AT THE JOINT OR SPLICE EQUAL TO THE VALUE OF THE CONDUCTOR INSULATION. ALL CONNECTORS SHALL BE UL APPROVED.

39. ALL NEW MULTI-WIRE BRANCH CIRCUITS SHALL INCLUDE SEPARATE NEUTRAL CONDUCTORS OR BREAKER TIES AS REQUIRED BY CURRENT NEC SECTION 210.4 (B).

40. VOLTAGE DROP: THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT VOLTAGE DROP FOR FEEDERS TO DISTRIBUTION EQUIPMENT DOES NOT EXCEED 2% AND VOLTAGE DROP IN BRANCH CIRCUITING DOES NOT EXCEED 3% FOR OVERALL VOLTAGE DROP OF 5% (MAXIMUM). FEEDERS LISTED ON SCHEDULES AND THE ELECTRICAL ONE-LINE DIAGRAM ARE A BASE FEEDER/BRANCH CIRCUIT SIZE AND SHALL BE ADJUSTED AS NEEDED BASED ON ACTUAL LENGTHS OF CONDUCTORS.

41. ELECTRICAL CONTRACTOR SHALL UP SIZE SHARED NEUTRAL CONDUCTOR WITHIN FURNITURE SYSTEMS TO A #10 AWG CU CONDUCTOR. ELECTRICAL CONTRACTOR TO CONSIDER THE NEUTRAL CONDUCTOR AS A CURRENT CARRYING CONDUCTOR WHEN FEEDING ELECTRONIC LOADS.

42. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY FROM STRUCTURE. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF LIGHT FIXTURES AND ELECTRICAL DEVICES.

43. FOR ALUMINUM CONDUCTOR TERMINATIONS, ALUMINUM BI-METALLIC PIN CONNECTORS ARE REQUIRED UNLESS COMPACT CONDUCTORS ARE USED. THESE CONNECTORS SHALL BE UL LISTED PER UL 486B AND RATED FOR USE UP TO 600V AND TEMPERATURE UP TO 90°C. CONNECTORS SHALL BE INSTALLED WITH MANUFACTURER'S SPECIFIED CRIMPING TOOLS AND DIES.

44. INSTALLATION IN AREAS OF DRYWALL CEILING SHALL BE COORDINATED SUCH THAT ACCESS PANELS ARE NOT REQUIRED. ELEMENTS REQUIRING ACCESS SHALL BE LOCATED IN THE AREAS OF ACCESSIBLE CEILING OR IN THE LOCATIONS COORDINATED WITH ARCHITECT. ACCESS PANELS REQUIRED WITHIN DRYWALL CEILINGS SHALL BE INSTALLED SYMMETRICALLY WITH OTHER PANELS OR DEVICES AND SHALL BE MINIMUM SIZE REQUIRED. "MUD-IN" TYPE, AND FIRE RATED, IF REQUIRED. ACCESS PANELS IN FIRE-RATED WALLS AND CEILINGS SHALL HAVE PROPER UL LABEL AND FIRE RATING LISTING.

45. WALL AND CEILING ROUGH-IN INSTALLATIONS FOR LOW-VOLTAGE CONTROL WIRING OF ANY TYPE SUCH AS DATA/TELECOMMUNICATIONS WIRING, FIRE ALARM WIRING, HVAC CONTROL WIRING, SECURITY SYSTEMS WIRING, TV CABLING, OPTICAL FIBER CABLING, ETC., SHALL BE COMPLETE AND READY FOR INSPECTION AT THE TIME ELECTRICAL ROUGH-IN INSPECTIONS ARE REQUESTED. ALL SHARP EDGES, CONDUIT ENDS AND METAL STUDS, ETC. FOR LOW-VOLTAGE CABLING SHALL BE PROTECTED BY INSULATED BUSHINGS OR GROMMETS AND SECURELY FASTENED IN THE OPENINGS FOR THE WALL ROUGHT-IN INSPECTIONS. WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER (GROUPED CABLES ROUTED WITH SQUARE CORNERS AND PARALLEL TO BUILDING LINES.) CABLES SHALL BE INSTALLED PER NEC REQUIRED SEPARATIONS AND SUPPORTED FROM THE BUILDING STRUCTURE. CABLE TIES USED IN DUCTS, PLENUMS, AND OTHER AIR-HANDLING SPACES ARE REQUIRED TO HAVE A TESTING LABORATORY LISTING NUMBER AND LABEL ON EACH UNOPENED PACKAGE AS BEING APPROVED FOR USE IN THESE LOCATIONS.

46. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL ELECTRICAL DEVICES LOCATED WITHIN, ABOVE, OR NEAR MILLWORK WITH ARCHITECTURAL DRAWINGS, APPROVED "SHOP DRAWINGS", AND MILLWORK CONTRACTOR. MAINTAIN CONSISTENT MOUNTING PRACTICES FOR A UNIFORM APPEARANCE. VERIFY ALL OUTLET REQUIREMENTS PRIOR TO ROUGH IN.

47. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL ROOMS/SPACES WITH MECHANICAL DUCT WORK INSTALLER PRIOR TO ROUGH IN. LOCATE BELOW DUCT WORK (8'-0" A.F.F. MIN.) CENTERED IN ROOM AS MUCH AS POSSIBLE.

48. ELECTRICAL CONTRACTOR SHALL COMPLY WITH NEC AND LOCAL CODES FOR CONDUIT FILL REQUIREMENTS DEPENDING ON WIRE SIZES, QUANTITY, AND CORRECTION FACTORS. COORDINATE WITH LOCAL AUTHORITY HAVING JURISDICTION IF UPGRADE OF THE EXISTING ELECTRICAL INSTALLATION IS REQUIRED. THIS UPGRADE MAY INCLUDE REPLACEMENT OF THE EXISTING CONDUITS AND WIRING AFFECTED BY SCOPE OF THIS PROJECT TO ACCOMMODATE CURRENT CODE CONDUIT FILL AND CORRECTION REQUIREMENTS. INCLUDE COST ASSOCIATED WITH THIS UPGRADE IN THE BID.

49. ELECTRICAL CABINETS AND ENCLOSURES LOCATED IN PUBLIC AREAS SHALL BE LOCKABLE TYPE.

50. PENETRATIONS THROUGH STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT SPECIFIC WRITTEN PERMISSION FROM STRUCTURAL ENGINEER AND ARCHITECT. SUBMIT REQUESTS FOR PENETRATIONS TO ARCHITECT FOR REVIEW AND DISPOSITION. PRIOR TO CORE, DRILLING THROUGH FLOORS, VERIFY CLEARANCE OF BEAMS, DUCTWORK, ETC IN CEILING SPACE BELOW, AND X-RAY FOR CONDUIT AND/OR REBAR IN SLAB. COORDINATE WITH BUILDING MANAGEMENT/OWNER TO INFORM TENANT BELOW FOR SCHEDULING OF CORE DRILLING AND TO ADVICE CONCERNING PROTECTION FOR ANY SENSITIVE EQUIPMENT PRIOR TO COMMENCEMENT OF WORK. ALL X-RAYS AND CORE DRILLS MUST BE SCHEDULED FOR AFTER HOURS UNLESS BUILDING MANAGEMENT/OWNER AUTHORIZES OTHERWISE.

51. RACEWAYS SHALL BE PROVIDED WITH EXPANSION FITTINGS WHERE NECESSARY TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION, AND TO ALLOW FOR MINOR MOVEMENT OF THE STRUCTURAL ELEMENTS OF THE BUILDING EXPANSION FITTINGS FOR METAL RACEWAYS SHALL BE MADE ELECTRICALLY CONTINUOUS BY EQUIPMENT BONDING JUMPERS OR OTHER MEANS.

52. PROVIDE TYPEWRITTEN, UPDATED PANELBOARD DOOR DIRECTORIES FOR ALL AFFECTED PANELS PER NEC 408.4, REFLECTING ACCURATE BRANCH CIRCUIT DESTINATIONS. CLEARLY MARK JUNCTION BOXES IN CEILING SPACE WITH PANEL DESIGNATIONS AND CIRCUIT NUMBERS. PROVIDE NEW ENGRAVED PLASTIC LABELS TO REPLACE ANY DAMAGED MISLABELED, TEMPORARY OR OTHERWISE ILLEGIBLE EXISTING IDENTIFICATION LABELS FOR DISTRIBUTION EQUIPMENT AFFECTED BY THIS CONTRACT. ATTACH THESE LABELS PERMANENTLY TO EQUIPMENT WITH RIVETS OR SCREWS. ALL PANEL SCHEDULES SHALL INDICATE THE NAME OF THE UPSTREAM PANEL OR SWITCHBOARD PROVIDING POWER.

53. CLEAN EXPOSED PANEL BOARD SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AS REQUIRED AND PROVIDE CLOSURE PLATES FOR VACANT SPACES. ALL NEW PANELS PROVIDED UNDER THIS CONTRACT SHALL BE DOOR-IN-DOOR CONSTRUCTION TYPE, WITH BOLT-ON CIRCUIT BREAKERS AND COPPER BUSSING, UNLESS SPECIFICALLY NOTED OTHERWISE.

54. PROVIDE FIRE STOPPING MATERIAL AND SYSTEMS AS LISTED IN THE UL FIRE RESISTANCE DIRECTORY EQUAL TO THE FIRE RESISTANCE RATING OF THE RESPECTIVE WALL OR FLOOR ASSEMBLY FOR ALL PENETRATIONS OF CONDUIT, SLEEVES, WIRING, CABLES AND OTHER ELECTRICAL ITEMS THROUGH FIRE-RATED CORRIDOR WALLS, FIRE RESISTIVE WALLS, FIRE RESISTIVE SHAFTS, AND FLOOR PENETRATIONS.

55. VERIFY ALL SPECIFIC KITCHEN AND BREAK ROOM EQUIPMENT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH IN. COORDINATION SHALL INCLUDE MOUNTING HEIGHTS, CONNECTION TYPE AND POWER REQUIREMENTS. ALL CONNECTIONS FOR KITCHEN EQUIPMENT SHALL BE IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS. PROVIDE CORD AND PLUG FOR DISHWASHERS AND GARBAGE DISPOSER PER NEC 422.16(B)(1) AND (2).

56. SECURITY: ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND REQUIREMENTS FOR J-BOX ROUGH-INS, CONDUIT RUNS WITH PULL WIRE AND POWER REQUIREMENTS FOR SECURITY SYSTEM WITH SECURITY SYSTEM CONTRACTOR PRIOR TO ROUGH-IN. THE SECURITY SYSTEM CONTRACTOR SHALL ALSO COORDINATE WORK WITH FIRE ALARM CONTRACTOR FOR COORDINATION OF THE INTERCONNECTION OF THE SECURITY SYSTEM WITH FIRE ALARM SYSTEM AS REQUIRED PER LOCAL CODES AND FIRE DEPARTMENT REGULATIONS.

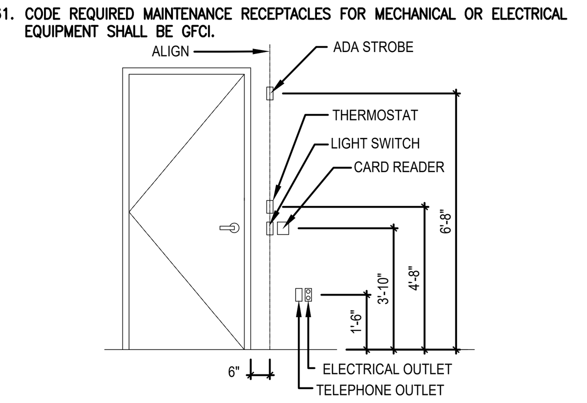
57. AUDIO-VISUAL EQUIPMENT: ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND REQUIREMENTS FOR J-BOX ROUGH-INS, CONDUIT RUNS WITH PULL WIRE, REQUIRED PENETRATIONS, AND POWER REQUIREMENTS FOR AUDIO-VIDEO EQUIPMENT WITH AUDIO-VIDEO CONTRACTOR PRIOR TO ROUGH-IN.

58. COORDINATE CONTROL OF LUMINAIRES IN BUILDING COMMON CORRIDOR AREAS WITH BUILDING MANAGEMENT.

59. EXISTING LIGHT FIXTURES TO BE RELOCATED: LUMINAIRES SCHEDULED TO BE RELOCATED ARE CONSIDERED AS NEW INSTALLATION AND SHALL BE EITHER RETROFITTED WITH AN INDIVIDUAL DISCONNECTING MEANS WHICH SIMULTANEOUSLY DISCONNECTS ALL BALLAST CONDUCTORS FROM THE SOURCE OF SUPPLY OR RETROFITTED WITH NEW BALLASTS AND LAMP POSTS COMPLYING WITH THE REQUIREMENTS SET IN NEC 410.130 (G). THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THEIR BID A SEPARATE LINE ITEM COST FOR EACH LUMINAIRE RETROFIT. FIELD VERIFY QUANTITY UPON AWARD OF BID AND ADJUST PRICE ACCORDINGLY.

60. UNLESS OTHERWISE INDICATED ON THE PLANS, ELECTRICAL CONTRACTOR SHALL PROVIDE A #6 STRANDED COPPER INSULATED EQUIPMENT GROUNDING CONDUCTOR AT EACH PERMANENTLY INSTALLED SERVER RACK IN THE PROJECT AREA. THIS EQUIPMENT GROUNDING CONDUCTOR SHALL BE BONDED TO THE RACK STRUCTURE, ROUTED IN A NEAT MANNER AWAY FROM THE RACK AND INTO THE ACCESSIBLE CEILING, AND BONDED TO BUILDING STEEL OR THE COPPER WATER SERVICE, WHICHEVER IS CLOSER.

61. CODE REQUIRED MAINTENANCE RECEPTACLES FOR MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE GFCI.



TYPICAL DETAIL FOR DEVICES AT DOOR LOCATION

SCALE: NONE

FIRE ALARM SYSTEM

1. GENERAL CONTRACTOR SHALL SOLICIT BIDS FROM BUILDING OWNER'S DESIGNATED FIRE ALARM CONTRACTOR FOR DESIGN AND INSTALLATION OF AN APPROVED FIRE ALARM SYSTEM AND DEVICES WHICH SHALL COMPLY WITH ALL APPLICABLE CODES AND ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. (GENERAL CONTRACTOR SHALL VERIFY WITH BUILDING MANAGEMENT/OWNER CONCERNING DESIGNATED FIRE ALARM CONTRACTOR.)

2. REQUIRED MODIFICATIONS TO EXISTING FIRE ALARM SYSTEM SHALL BE PROVIDED ON A DESIGN/BUILD BASIS BY FIRE ALARM CONTRACTOR. PRIOR TO BIDDING, FIRE ALARM CONTRACTOR SHALL FIELD VERIFY EXISTING FIRE ALARM SYSTEM CAPABILITY AND FIRE ALARM DEVICE LOCATIONS IN THIS SCOPE OF WORK. IF REQUIRED BY LOCAL JURISDICTION, FIRE ALARM SYSTEM SHALL BE UPGRADED TO MEET CURRENT CODES. FIRE ALARM CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AND EQUIPMENT BROCHURES TO AUTHORITIES HAVING JURISDICTION, SUCH AS FIRE DEPARTMENT, BUILDING DEPARTMENT, ETC., AS REQUIRED, FOR REVIEW AND APPROVAL. CONTRACTOR SHALL ALSO PROVIDE THE ENGINEER WITH ONE (1) SET OF DRAWINGS, CALCULATIONS AND EQUIPMENT SUBMITTALS FOR HIS REVIEW AND RECORD.

3. IF REQUIRED, RELOCATE EXISTING SMOKE DETECTORS, REMOTE INDICATOR LIGHTS, FIRE ALARM HORNS, STROBES, SPEAKERS, ETC., BASED ON REMODELED AREA MODIFICATION, AND RECONNECT TO EXISTING SYSTEM AS REQUIRED. NEW FIRE ALARM DEVICES SHALL BE OF THE SAME MANUFACTURER AS THE EXISTING DEVICES AND SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE ADDITIONAL CONDUCTORS, ZAM'S IAM'S AND OTHER EQUIPMENT NECESSARY IN ORDER TO EXPAND SYSTEM AS REQUIRED. PROVIDE SYNCHRONIZING MODULES FOR STROBES. IF REQUIRED, REPLACE EXISTING FIRE ALARM DEVICES THAT ARE NOT CURRENTLY BUILDING STANDARD OR COMPATIBLE WITH NEW BUILDING STANDARD FIRE ALARM DEVICES. PRIOR TO PURCHASING FIRE ALARM DEVICES, PROVIDE CUT SHEETS, SHOP DRAWINGS, AND SEQUENCE OF OPERATION TO BUILDING MANAGEMENT AND FIRE PREVENTION BUREAU FOR THEIR APPROVAL AND TO ENGINEER FOR HIS REVIEW.

4. PROVIDE NEW BUILDING STANDARD FIRE ALARM STROBES, ADA HIGH INTENSITY, COMPATIBLE WITH EXISTING OR NEW FIRE ALARM SYSTEM AS REQUIRED. MODIFY EXISTING FIRE ALARM CIRCUIT CONDUCTORS AND FIRE ALARM PANELS PER MANUFACTURER'S REQUIREMENTS. MOUNT STROBES +80" A.F.F OR 6" BELOW THE CEILING, WHICHEVER IS LOWER. REPLACE EXISTING STROBE LIGHTS WITH NEW BUILDING STANDARD STROBE LIGHTS, AND ENSURE ALL STROBE LIGHTS ARE SYNCHRONIZED.

5. FIRE ALARM CONTRACTOR SHALL FURNISH DUCT DETECTORS (120V OR 24V), WITH REMOTE INDICATING LIGHT AND TEST SWITCH, FOR ALL MECHANICAL AIR-MOVING SYSTEMS WHERE REQUIRED BY CODE OR LOCAL AUTHORITIES. DETECTORS SHALL BE OF THE SAME MANUFACTURER AS EXISTING OR NEW FIRE ALARM SYSTEM. MECHANICAL CONTRACTOR SHALL INSTALL DETECTORS IN THE MECHANICAL DUCTWORK, AS REQUIRED BY CODE, TO FACILITATE MOTOR SHUTDOWN UPON DETECTION OF SMOKE. ELECTRICAL CONTRACTOR SHALL HARDWIRE DETECTOR TO THE FAN MOTOR (THROUGH A POWER-INTERRUPTING RELAY) FOR SHUTDOWN UPON DETECTION OF SMOKE; AND IF REQUIRED BY CODE, THE FIRE ALARM CONTRACTOR SHALL CONNECT TO FIRE ALARM SYSTEM AS TROUBLE ALARM. COORDINATE ALL REQUIREMENTS AND SPECIFICATIONS WITH BUILDING ENGINEER OR BUILDING FIRE ALARM REPRESENTATIVE. SUBMIT DRAWINGS AND EQUIPMENT CUT SHEETS FOR ENGINEERS' REVIEW AND FIRE DEPARTMENT APPROVAL.

6. IF A PRE-ACTION DRY PIPE SPRINKLER SYSTEM IS REQUIRED FOR THIS PROJECT, THE PRE-ACTION FIRE ALARM SYSTEM CONTROL PANEL SHALL BE ANNUNCIATED ON THE BUILDING MAIN FIRE ALARM CONTROL PANEL (FACP) IN THE FIRE COMMAND CENTER (FCC.)

7. IF THE PROJECT REQUIRES A UPS SYSTEM AND COMPUTER ROOM AIR CONDITIONING (CRAC) UNITS, THE UPS SYSTEM AND CRAC UNITS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM AND TO THE PRE-ACTION FIRE ALARM CONTROL PANEL. THE UPS SYSTEM, CRAC UNITS, AND FIRE/SMOKE DAMPERS SERVING THE COMPUTER ROOM SHALL BE SHUT DOWN UPON ACTIVATION OF FIRE ALARM SYSTEM. PROVIDE INTERFACE WIRING AS REQUIRED. PROVIDE WIRING FROM CRAC UNIT TO MOISTURE SENSORS OR SITE MONITORING SYSTEM IF IT IS PROVIDED UNDER MECHANICAL CONTROL AND ALARM SECTION. THE CRAC UNITS SHALL SHUT DOWN AND ALARM UPON DUCT DETECTOR ACTIVATION AS PART OF UL SYSTEM. COORDINATE ALL OF THE ABOVE WITH APPROPRIATE UPS, PDU AND CRAC UNIT MANUFACTURERS.

COMMUNICATIONS SYSTEMS

1. ELECTRICAL CONTRACTOR SHALL FULLY FIELD COORDINATE COMMUNICATIONS SYSTEM INSTALLATION (DEVICES AND CABLING) WITH TENANT REPRESENTATIVE PRIOR TO ROUGH IN AND PURCHASING OF MATERIALS.

2. AT TELEPHONE AND DATA SERVICE POINT FOR EACH MODULAR FURNITURE GROUPING, THE ELECTRICAL CONTRACTOR SHALL PROVIDE 4" SQUARE DEEP STEEL JUNCTION BOX WITH TWO 1" CONDUITS (OR AS OTHERWISE SPECIFIED ON PLAN, OR BY DATA/TELECOMMUNICATIONS CONTRACTOR) WITH PULL WIRE. STUB CONDUITS ABOVE CEILING LINE AND PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS. CABLING SHALL BE PULLED AND WIRED BY OTHERS. COORDINATE ALL WORK WITH DATA/TELECOMMUNICATIONS CONTRACTOR PRIOR TO ROUGH-IN.

3. ALL DATA AND TELECOMMUNICATIONS CABLING SHALL BE INSTALLED BY TENANT'S VENDOR.

4. FOR EACH NEW SINGLE TELEPHONE/DATA OR TV CABLE OUTLET SHOWN MOUNTED IN WALL, ELECTRICAL CONTRACTOR SHALL PROVIDE A 4" SQUARE DOUBLE-GANG STEEL JUNCTION BOX WITH SINGLE-GANG PLASTER RING AND A 3/4" CONDUIT (OR AS OTHERWISE SPECIFIED BY SYSTEM INSTALLER) WITH PULL WIRE. STUB CONDUIT 6" INTO CEILING SPACE AND PROVIDE PLASTIC BUSHINGS. CABLING SHALL BE PULLED BY OTHERS. COORDINATE ALL WORK WITH DATA/TELECOMMUNICATIONS CONTRACTOR PRIOR TO ROUGH-IN.

5. IF REQUESTED, ELECTRICAL CONTRACTOR SHALL REMOVE ALL ABANDONED AND UNUSED DATA/TELECOMMUNICATIONS CABLING, CONDUIT, JUNCTION BOXES, AND ASSOCIATED WIRING LOCATED IN THE CEILING SPACE BACK TO POINT OF ORIGIN, UNLESS THE TENANT DATA/TELECOMMUNICATIONS CONTRACTOR IS CONTRACTED TO REMOVE THE DATA/TELECOMMUNICATIONS CABLING UNDER A SEPARATE CONTRACT. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE CONTRACTOR FOR THE REMOVAL OF THE PHONE/DATA CABLING. PRIOR TO DISCONNECTING AND REMOVING ANY EQUIPMENT, DEVICES OR CABLING, THE APPROPRIATE CONTRACTOR SHALL COORDINATE WITH OWNER AND ARCHITECT TO ENSURE EQUIPMENT SHALL BE REMOVED.

6. ELECTRICAL CONTRACTOR SHALL VERIFY QUANTITY AND TYPE OF DATA/PHONE/AUDIO/VIDEO PORTS TO BE INCLUDED IN FLOOR POKE-THRU DEVICES WITH DATA/TELECOMMUNICATIONS CONTRACTOR PRIOR TO ORDERING.

7. VERIFY ALL SPECIFIC COMPUTER AND COMMUNICATIONS EQUIPMENT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH IN. COORDINATION SHALL INCLUDE MOUNTING HEIGHTS, CONNECTION TYPE AND POWER REQUIREMENTS. ALL CONNECTIONS FOR COMPUTER AND COMMUNICATIONS EQUIPMENT SHALL BE IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS

RECORD DOCUMENTS

1. RECORD DOCUMENTS: THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL DEVIATIONS IN WORK AS INSTALLED FROM WORK SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS AND IDENTIFY ORIGIN OF CHANGE.

2. KEEP A COMPLETE SET OF RECORD DOCUMENT PRINTS IN CUSTODY DURING ENTIRE PERIOD OF CONSTRUCTION AT THE CONSTRUCTION SITE. ON COMPLETION OF THE PROJECT, TWO COMPLETE SETS OF MARKED-UP PRINTS SHOWING THESE DEVIATIONS SHALL BE DELIVERED TO GENERAL CONTRACTOR AND ARCHITECT/ENGINEER. THIS CONTRACT WILL NOT BE CONSIDERED COMPLETED UNTIL THESE RECORD DRAWINGS HAVE BEEN RECEIVED AND REVIEWED BY THE ENGINEER.

MECHANICAL SYSTEM

1. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL AND PLUMBING DRAWINGS AND SCHEDULES FOR VERIFICATION OF THE EQUIPMENT USED, WIRING AND ADDITIONAL INSTALLATION REQUIREMENTS PRIOR TO PROVIDING REQUIRED ROUGH-INS STARTERS/DISCONNECT SWITCHES, WHEN EQUIPMENT DELIVERED TO JOB SITE. ELECTRICAL CONTRACTOR SHALL VERIFY THIS DATA WITH EQUIPMENT NAMEPLATES OR MANUALS IF SIGNIFICANT DISCREPANCIES OCCUR CONTACT ELECTRICAL ENGINEER FOR REVISION OF THE CONSTRUCTION DOCUMENTS.

2. PROVIDE ALL REQUIRED OUTLETS; HEAVY-DUTY SAFETY DISCONNECT SWITCHES, FUSES AND CONNECTIONS FOR ALL MECHANICAL EQUIPMENT UNLESS PROVIDED BY MECHANICAL CONTRACTOR AS SPECIFICALLY DIRECTED ON MECHANICAL DRAWING OR SPECIFICATION REQUIREMENTS.

3. ELECTRICAL POWER WIRING IN CONNECTION WITH THE AUTOMATIC TEMPERATURE CONTROL SYSTEM, WHERE SHOWN ON THE ELECTRICAL DIVISION DRAWINGS, SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. ALL OTHER WIRING, INCLUDING LOW VOLTAGE REQUIRED FOR PROPER OPERATION OF THE AUTOMATIC TEMPERATURE CONTROL SYSTEM, SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR.

DEMOLITION

1. DURING THE DEMOLITION PHASE OF THIS CONTRACT, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO VERIFY DEMOLITION SCOPE AND ITEMS WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS. EXISTING LIGHT FIXTURES, ELECTRICAL DEVICES, EQUIPMENT AND RELATED ITEMS SHALL BE CAREFULLY REMOVED EITHER AS SHOWN ON THE DEMOLITION DRAWINGS AS BEING REMOVED, OR AS REQUIRED FOR THE WORK UNDER THIS CONTRACT. THESE ITEMS SHALL BE TAGGED, PROTECTED FROM DAMAGE, AND STORED AS DIRECTED BY THE BUILDING MANAGEMENT/OWNER, ARCHITECT OR ENGINEER.

2. DEMOLITION OR ABANDONING ANY ELECTRICAL AND COMMUNICATIONS CONDUIT, WIRING, CABLING, OR DEVICE MEANS TO REMOVE IN ITS ENTIRETY. REMOVE UNUSED CONDUITS FROM CEILING SPACES IN AREAS OF WORK. ABANDONED OUTLET JUNCTION BOXES ARE TO BE REMOVED AND COVERED WITH NEW GYPSUM BOARD. ABANDONED POKE THRU OUTLETS SHALL HAVE COVER PLATES AND BE FILLED WITH FIRE RATED FOAM SEALANT TO MAINTAIN FIRE RATING OF FLOOR.

3. EXISTING LIGHT FIXTURES IN WORK AREA, NOTED ON DRAWINGS TO BE RE-USED SHALL BE THOROUGHLY CLEANED AND/OR REFINISHED TO MATCH NEW.

4. CONTRACTOR SHALL REMOVE SWITCHES, DATA/TELEPHONE OUTLETS, AND ELECTRICAL OUTLETS SCHEDULED FOR DEMOLITION. ALL UNUSED POWER WIRING SHALL BE REMOVED BACK TO JUNCTION BOX IN CEILING SPACE OR TO THE ELECTRICAL PANEL FEEDING THE CIRCUIT. THE SPARE CIRCUIT BREAKER SHALL BE SWITCHED TO THE "OFF" POSITION AND NOTED ON PANEL DIRECTORY AS SPARE WITH THE JUNCTION BOX LOCATION IF APPLICABLE.

5. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RINGING OUT ALL CIRCUITS WHICH ARE OR MAY BE AFFECTED BY THIS PROJECT TO ENSURE CIRCUIT CONTINUITY AND TO PREVENT OVERLOADING OF ANY SINGLE CIRCUIT. CONTRACTOR SHALL ENSURE THAT CIRCUITS SHARED BETWEEN PROJECT AREA AND EXISTING TENANT SPACES REMAIN INTACT PER ORIGINAL DESIGN INTENT. CORRECT ANY MISLABELED J-BOX COVERS WITH ACCURATE PANEL/BRANCH CIRCUIT IDENTIFICATION. REFER TO DETAIL NOTES ON PLANS THAT APPLY TO WORK TO BE PERFORMED UNDER THIS CONTRACT. CIRCUIT BREAKERS FOR ALL UNUSED CIRCUITS SHALL BE TURNED TO THE "OFF" POSITION AND LABELED AS SPARE ON REVISED PANEL DIRECTORIES.

6. PROVIDE NEW JUNCTION BOXES, NEW CONDUIT AND WIRING AS REQUIRED TO REPAIR, REROUTE AND RECONNECT CONDUCTORS THAT ARE DAMAGED, DISTURBED OR OTHERWISE ADVERSELY AFFECTED BY THE DEMOLITION AND REMODEL WORK.

7. THE LOCATIONS OF EXISTING LIGHTING FIXTURES, POWER DEVICES AND WIRING, ETC., SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM EXISTING DRAWINGS AND ARE, THEREFORE, ONLY AS ACCURATE AS THAT INFORMATION. ALL EXISTING CONDITIONS SHALL BE VERIFIED AT THE FIELD WITH NECESSARY ADJUSTMENT BEING MADE TO THE DRAWING INFORMATION.

8. ALL FLOOR AND WALL PENETRATIONS WHERE ELECTRICAL DEVICES AND RACEWAY HAVE BEEN REMOVED MUST BE REPAIRED AND SEALED TO MAINTAIN THE REQUIRED FIRE RATING. ALL LUMINAIRES PENETRATING A ONE HOUR FIRE RESISTIVE ENCLOSURE SHALL BE PROPERLY TENTED TO MAINTAIN FIRE RATING OF THE ENCLOSURE. ALL CONDUITS PENETRATING A ONE HOUR FIRE RATED WALL OR CEILING SHALL BE FIRE STOPPED WITH A U.L. LISTED FIRE STOPPING COMPOUND SEALANT.

9. MAINTAIN LIGHTING CIRCUIT AND SWITCHING CONTROL CONTINUITY IN VACANT AND NON-VACANT SUITES THAT ARE ADJACENT TO PROJECT.

10. MAINTAIN RECEPTACLE CIRCUIT CONTINUITY THROUGH WALLS WHICH ARE TO BE DEMOLISHED AND THROUGH RECEPTACLES WHICH ARE TO BE REMOVED.

11. OWNER HAS RIGHT OF FIRST REFUSAL FOR ALL REMOVED EQUIPMENT, FIXTURES, DEVICES, AND CONDUCTORS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE STORAGE AND/OR DISPOSAL OF ALL SUCH ITEMS WITH OWNER/PROPERTY MANAGEMENT PRIOR TO REMOVAL FROM SITE.

WARRANTY

1. PROVIDE COMPLETE WARRANTY INFORMATION FOR EACH ITEM, WHICH SHALL INCLUDE NAME OF PRODUCT OR EQUIPMENT: DATE OF BEGINNING OF WARRANTY OR BOND; DURATION OF WARRANTY OR BOND; AND NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF MANUFACTURING/SERVICING PERSONNEL AS WELL AS PROCEDURES FOR FILING A CLAIM AND OBTAINING WARRANTY SERVICES.

2. THE CONTRACTOR SHALL WARRANT ALL MATERIALS, WORKMANSHIP AND THE SUCCESSFUL OPERATION OF ALL EQUIPMENT AND APPARATUS INSTALLED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE ENTIRE WORK AS IDENTIFIED IN THE GENERAL CONDITIONS.

ELECTRICAL SYMBOLS LEGEND

LIGHTING

SYMBOL	DESCRIPTION
SURFACE / RECESSED	SHADING INDICATES CONNECTION TO EMERGENCY CIRCUIT OR 90-MINUTE BATTERY BACKUP
	2'x4' LIGHT FIXTURE
	2'x2' LIGHT FIXTURE
	1'x4' LIGHT FIXTURE
	NARROW 4' FIXTURE
WALL / CEILING	EXIT SIGN
	EMERGENCY BATTERY PACK FIXTURE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	NARROW PENDANT FIXTURE		STRIP FIXTURE
	PENDANT FIXTURE		UNDER CABINET FIXTURE
	WALL BRACKET		PENDANT FIXTURE
	DOWNLIGHT FIXTURE		WALLWASH FIXTURE
	WALL MOUNTED FIXTURE		POLE MOUNTED OUTDOOR FIXTURE
	TRACK LIGHTING		REMOTE EMERGENCY LIGHT HEAD
	COMBINATION LIGHT AND EXHAUST FAN		
P	PHOTOCELL		

SWITCHING

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
S	SINGLE POLE SWITCH	SD	DIMMER SWITCH
S2	DOUBLE POLE SWITCH	SK	KEYED SWITCH
S3	THREE WAY SWITCH	STO	THERMAL OVERLOAD SWITCH
S4	FOUR WAY SWITCH	SS	GANGED SWITCHES
WALL: SM / CEILING: OC	OCCUPANCY SENSOR FOR LIGHTING CONTROLS		

ABBREVIATIONS

ABBR.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AC	ABOVE COUNTER
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
IG	ISOLATED GROUND
NL	NIGHT LIGHT
RL	RELOCATED DEVICE OR EQUIPMENT
WP	WEATHER PROOF
EM	EMERGENCY
HD	HEAVY DUTY
TR	TAMPER RESISTANT
EG	EGRESS LIGHTING
X	AUTOMATICALLY CONTROLLED DEVICE

POWER

SYMBOL (WALL / CEILING / FLOOR)	DESCRIPTION
J	JUNCTION BOX
(NOTE)	DUPLEX RECEPTACLE
(NOTE)	DEDICATED DUPLEX RECEPTACLE
(NOTE)	DOUBLE DUPLEX RECEPTACLE
(NOTE)	DEDICATED DOUBLE RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
C	CONTACTOR		FLOOR SURFACE DUPLEX
	SIMPLEX RECEPTACLE		FLOOR SURFACE DOUBLE DUPLEX
	PUSH BUTTON		

SURFACE / RECESSED	DESCRIPTION
	NEW ELECTRICAL PANEL
	EXISTING ELECTRICAL PANEL
	DEMO ELECTRICAL PANEL

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DISCONNECT, NON FUSED		DISCONNECT, FUSED
	GROUND BAR	P/B	PULLBOX
M	MOTOR	T/F	TRANSFORMER
TC	TIMECLOCK	M	METER
WH	WATER HEATER		SWITCHBOARD
PP	POWER POLE		COMBINATION POWER/COMM. FLOOR BOX
PM	PLUGMOLD		
WM	WIREMOLD		

COMMUNICATION

SYMBOL (WALL / CEILING / FLOOR)	DESCRIPTION
CLG.	COMBINATION DATA/ TELEPHONE OUTLET
CLG.	CRT OR DATA OUTLET
CLG.	TELEPHONE OUTLET
CLG.	TV OUTLET

CIRCUITING

SYMBOL	DESCRIPTION
	HOMERUN, SOLID 120/208 V, OPEN 277/480 V
	CIRCUIT; RUN CONCEALED IN WALL OR CEILING
	CIRCUIT; RUN CONCEALED IN FLOOR OR GRADE
	CONDUIT RISER; TURNED UP, TURNED DOWN
UGE	UNDERGROUND ELECTRICAL

FIRE ALARM AND SECURITY

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
T	THERMOSTAT		MANUAL PULL STATION
F	DUCT DETECTOR		REMOTE LAMP
M	MOTION SENSOR	D	FIRE/SMOKE DAMPER
H	HEAT DETECTOR	ANN	ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL	CR	CARD READER
			SECURITY CAMERA
		DH	DOOR HOLDER

SYMBOL (WALL / CEILING)	DESCRIPTION
2	SMOKE DETECTOR
F	FIRE HORN STROBE LIGHT
	FIRE ALARM STROBE LIGHT
S	PAGER OR MUSIC SPEAKER
F	FIRE ALARM SPEAKER

ONE-LINE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	PANEL BOARD		FUSED DISCONNECT WITHIN SWITCHBOARD
	NON-FUSED DISCONNECT SWITCH		TRANSFER SWITCH
	FUSED DISCONNECT SWITCH	G	GENERATOR
	EXTERIOR PAD-MOUNTED TRANSFORMER	M	METER
T/F	INTERIOR TRANSFORMER		WEATHER HEAD
C/T	CURRENT TRANSFORMER		CURRENT TRANSFORMER
P/B	PULL BOX		GROUNDING CONDUCTOR
SPARE	SPARE SWITCH WITHIN SWITCHBOARD	M	MOTOR
		SPACE	SPACE WITHIN SWITCHBOARD
			CIRCUIT BREAKER

OCCUPANCY/VACANCY/DAYLIGHT SENSOR SCHEDULE

SYMBOL	MANUFACTURER (OR APPROVED EQUAL)	DESCRIPTION	NOTES
SMD(V)D	WATTSTOPPER, SENSORSWITCH COOPER/GREENGATE, LEVITON	DUAL TECHNOLOGY, WALL-MOUNTED SINGLE-LEVEL 120/277V OCCUPANCY SENSOR SWITCH; COLOR TO MATCH BUILDING-STANDARD. WHERE DENOTED, ADDITIONAL "D" INDICATES DIMMING. MODIFY PART AS REQUIRED.	1,4,5,7,9
SMP(V)D	WATTSTOPPER, SENSORSWITCH COOPER/GREENGATE, LEVITON	PASSIVE-INFRARED, WALL-MOUNTED SINGLE-LEVEL 120/277V OCCUPANCY SENSOR SWITCH; COLOR TO MATCH BUILDING-STANDARD. WHERE DENOTED, ADDITIONAL "D" INDICATES DIMMING. MODIFY PART AS REQUIRED.	1,4,5,7,9
SSMD(V)D	WATTSTOPPER, SENSORSWITCH COOPER/GREENGATE, LEVITON	DUAL TECHNOLOGY, WALL-MOUNTED DUAL-LEVEL 120/277V OCCUPANCY SENSOR SWITCH; COLOR TO MATCH BUILDING-STANDARD. SEE PLAN NOTES FOR CONNECTION INFORMATION FOR EACH OF (2) SWITCH LEGS ON THIS SENSOR. WHERE DENOTED, ADDITIONAL "D" INDICATES DIMMING. MODIFY PART AS REQUIRED.	1,4,5,7,9
OC DR	WATTSTOPPER, SENSORSWITCH COOPER/GREENGATE, LEVITON	DUAL TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR WITH BUILT-IN 120/277V SWITCHING RELAY FOR STANDALONE OPERATION. STANDARD 1000 SQ. FT. COVERAGE. RATED FOR 800W MINIMUM LOAD AT 120V, 1200W AT 277V.	1,3,4,9
OC D(V)	WATTSTOPPER, SENSORSWITCH COOPER/GREENGATE, LEVITON	DUAL TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR. STANDARD 1000 SQ. FT. COVERAGE. SEPARATE POWER PACK/ROOM CONTROLLER (SPECIFIED) REQUIRED FOR OPERATION.	1,2,3,4,6,7,9
OC X(V)	WATTSTOPPER, SENSORSWITCH COOPER/GREENGATE, LEVITON	EXTENDED-RANGE (2000 SQ. FT.) CEILING MOUNTED OCCUPANCY SENSOR. ULTRASONIC OR DUAL TECHNOLOGY. SEPARATE POWER PACK (SPECIFIED) REQUIRED FOR OPERATION.	1,2,3,4,7,9
OC WP	WATTSTOPPER, SENSORSWITCH COOPER/GREENGATE, CRESTRON	WEATHER-PROOF, EXTREME-TEMPERATURE OCCUPANCY SENSOR. SEPARATE POWER PACK REQUIRED, DEPENDING ON MANUFACTURER.	1,2,3,4,9
DS	WATTSTOPPER, SENSORSWITCH COOPER/GREENGATE, LEVITON	LOW VOLTAGE COMBO DIMMING AND ON/OFF STAND ALONE DAYLIGHT PHOTOSENSOR. SET POINT TO BE LIGHT LEVEL WITHOUT DAYLIGHT. NOTE DIRECTIONAL ARROW.	1,2,3,4,7,9
# SMD(V)	AS SPECIFIED ON PLAN	OTHER WALL-MOUNTED OCCUPANCY SENSOR SWITCH, AS SPECIFIED IN PLAN NOTES. WHERE DENOTED, "D" INDICATES DIMMING. MODIFY PART AS REQUIRED.	1,4,5,6,7,9
SLVD	MATCH SYSTEM	LOW VOLTAGE WALL MNT SWITCH, MOMENTARY OR MAINTAINED. WHERE DENOTED, "D" INDICATES DIMMING. MODIFY PART AS REQUIRED.	1,4,5,6,7,9
X X	MATCH SYSTEM / DEVICE	AUTOMATICALLY CONTROLLED DEVICE. HALF DUPLEX OR HALF QUADRUPLEX. PROVIDE COMPATIBLE PLUG LOAD CONTROLLER OR INTEGRAL TO DEVICE TIED TO OCCUPANCY/VACANCY SENSORS. PROVIDE WITH REQUIRED NEC LABELING. SEE CONTROL MATRIX FOR FUNCTION WHERE APPLIES.	1,4,9

NOTES:
1. INSTALL ALL SENSORS, POWER PACKS, ROOM CONTROLLERS, PLUG CONTROL DEVICES, AND ACCESSORIES PER MANUFACTURER'S INSTRUCTIONS. PROVIDE ALL ACCESSORIES REQUIRED FOR COMPLETE SYSTEM. REFER TO DETAIL NOTES AND CONTROL MATRIX AS PROVIDED FOR ANY ADDITIONAL REQUIREMENTS.
2. REFER TO THE MANUFACTURER'S SPECIFICATIONS FOR MAXIMUM QUANTITY OF SENSORS PER POWER PACK AND PROVIDE ADDITIONAL POWER PACKS AS REQUIRED.
3. CONTRACTOR TO FIELD-ADJUST SENSOR PLACEMENT AND AIM IN EACH LOCATION IN THE FIELD, FOR OPTIMUM COVERAGE.
4. ALL DEVICES AND ACCESSORIES FOR THE PROJECT SHALL BE SUPPLIED FROM A SINGLE MANUFACTURER. MATCH EXISTING/BUILDING STANDARD WHERE PRESENT.
5. PROVIDE NEUTRAL CONDUCTOR IN SWITCH BOX FOR ALL WALL-MOUNTED OCCUPANCY SENSOR/SWITCHES WHERE REQUIRED BY MANUFACTURER.
6. WHERE DESIGNATED WITH THE LETTER V (PER THE LEGEND) THE SENSOR IS TO BE PROVIDED/PROGRAMMED/SET AS AN AUTOMATIC OFF/MANUAL ON VACANCY SENSOR. CATALOG DESIGNATION ADDITIONS ARE IN PARENTHESES TO MEET THIS REQUIREMENT. PROVIDE LOW VOLTAGE SWITCH WHERE REQUIRED
7. PROVIDE READILY ACCESSIBLE CALIBRATION METHOD, SUCH AS REMOTES, TESTING, MANUALS, AND AS-BUILTS PER LATEST IECC.
8. ELECTRICAL CONTRACTOR TO PROVIDE FOR COMMISSIONING OF LIGHTING CONTROL SYSTEM(S) PER LATEST IECC REQUIREMENTS AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
9. E.C. TO OBTAIN MANUFACTURERS SHOP DRAWINGS FOR FINAL PART SELECTION. COORDINATE ALL FINAL PART SELECTIONS WITH MATRIX REQUIREMENTS, AND ADDITIONAL LETTER DESIGNATIONS (SUCH AS DIMMING AND AUTOMATICALLY CONTROLLED).

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46607 OCT 21 2021 PROFESSIONAL ENGINEER
#21351

ADCA

Dates of Record
Project Start Date: 6 April 2020

Issued On:	Issued For:
15 Oct 2021	Tenant's Review & Approval; and Construction

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: R. Lowman
Date: Dec 13, 2021
2015 INTERNATIONAL CODES & 2020 NEC

RSN: 1594223
Permit #: 21-2083670-LT

Sheet Contents	GENERAL NOTES
Project Team	RR/AW
Project Number	21351
Sheet Mark	E.0

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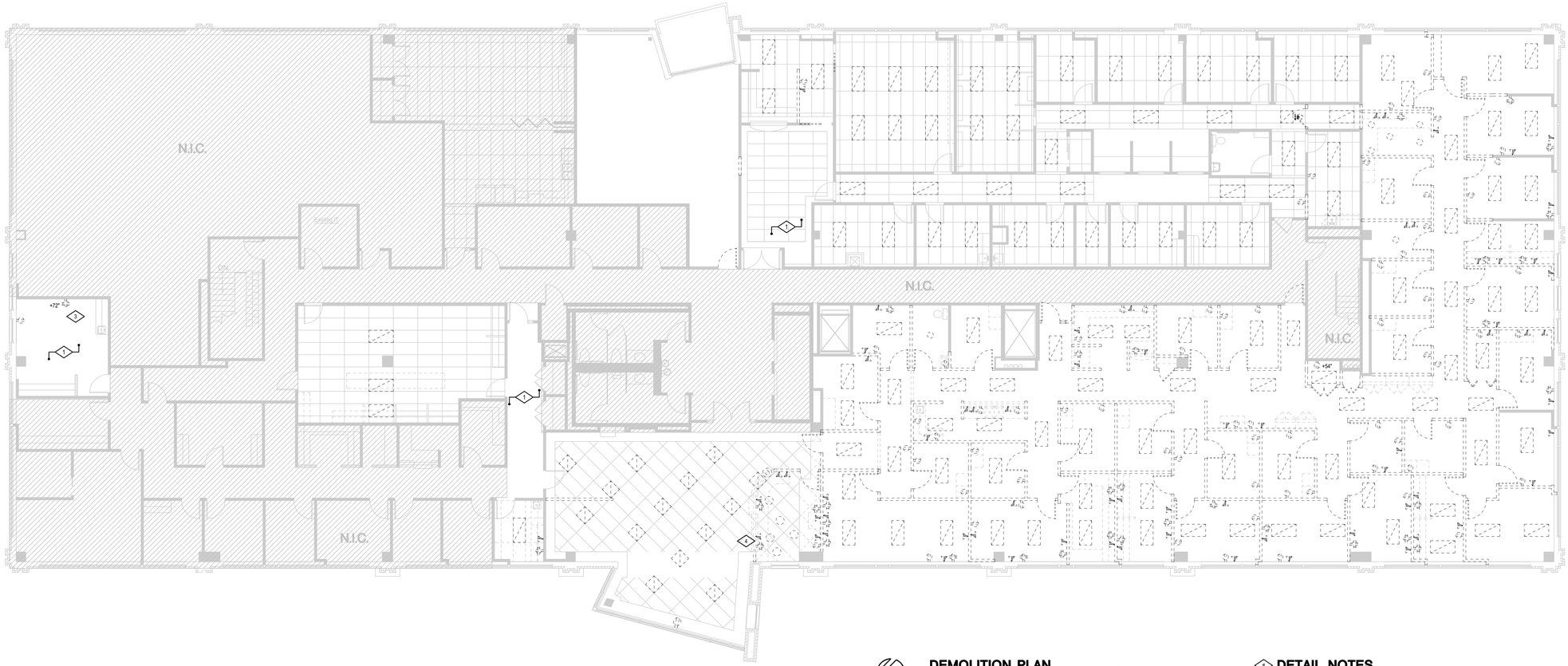

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DEMOLITION PLAN

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

GENERAL NOTES:

A. REMOVED ITEMS SHOWN AS DASHED AND LIGHT.
B. 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.
C. RETURN LIGHTING FIXTURES NOT REUSED TO PROPERTY MANAGEMENT STOCK.
D. PROTECT CIRCUITS AFFECTED BY DEMOLITION THAT HAVE DEVICES REMAINING AFTER DEMOLITION.
E. PROTECT ANY DEMOLISHED FIRE ALARM DEVICES AND EXIT SIGNS FOR RELOCATION. RETURN ANY UNUSED DEVICES TO BUILDING MANAGEMENT.

DETAIL NOTES

1. EXISTING LIGHTING CONTROL SWITCHES IN THIS LOCATION TO REMAIN.
2. ALL LIGHT SWITCHES IN SCOPE OF WORK TO BE DEMOLISHED UNLESS OTHERWISE NOTED.
3. PROTECT DEMOLISHED CIRCUIT TO BE REUSED IN THE SAME ROOM. SEE POWER PLAN FOR MORE INFORMATION.
4. PROTECT DEDICATED CIRCUIT FOR COPIER TO BE REUSED. SEE POWER PLAN FOR MORE INFORMATION.

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

RSN: 1594223
Permit #: 21-2083670-LT

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Sheet Contents	DEMOLITION PLAN
Project Team	RR/AW
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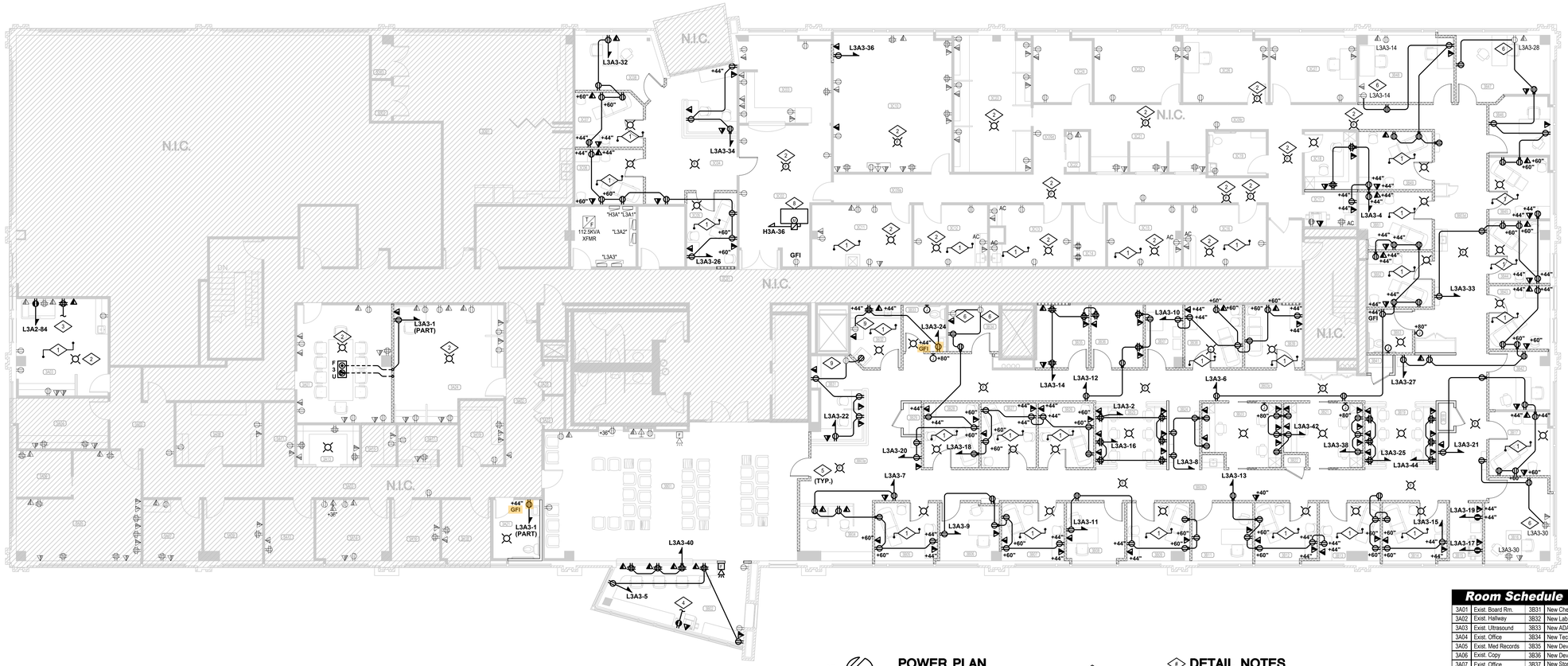


POWER PLAN

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

GENERAL NOTES:

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

B. E.C. TO PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL OFFICES, WAITING ROOMS, PATIENT CARE SPACES, AND CORRIDORS THROUGHOUT PER NEC 406.12.

DETAIL NOTES

1. PROVIDE/ENSURE HOSPITAL-GRADE RECEPTACLES FOR ALL DEVICES IN THIS ROOM. ALL BRANCH CIRCUITS IN THIS AREA SHALL BE RUN ENTIRELY IN EMT CONDUIT IN ORDER TO UTILIZE CONDUIT AS REDUNDANT GROUND (PER NEC 517.13) OR PROVIDE GREEN HOSPITAL-GRADE ACMC CABLE FOR REDUNDANT GROUND. PROVIDE GFCI DEVICES THROUGHOUT. PROVIDE EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT.
2. EXISTING ROOM COULD NOT BE SURVEYED. IF NO FIRE ALARM PRESENT, PROVIDE AS SHOWN.
3. CONNECT TO PROTECTED CIRCUIT FROM DEMOLITION OF QUAD RECEPTACLE IN SAME ROOM. SEE DEMOLITION PLAN FOR MORE INFORMATION.
4. CONNECT TO PROTECTED COPIER CIRCUIT FROM DEMOLITION. SEE DEMOLITION PLAN FOR MORE INFORMATION.
5. NEW/RELOCATED FIRE ALARM DEVICE, SEE FIRE ALARM GENERAL NOTES.
6. CONNECT TO EXISTING CIRCUIT SHOWN.
7. E.C. TO PROVIDE ADHESIVE LABEL WITH CIRCUIT NUMBER ON RECEPTACLES. COORDINATE STYLE OF LABEL WITH PROPERTY MANAGEMENT PRIOR TO INSTALLING. SEE TYPICAL DEVICE LABELING DETAIL.
8. NEW FAN TERMINAL UNIT. 277V/1PH. FAN COIL UNIT RATED AT 6KW, FAN UNIT AT 1/3HP. CONNECT THROUGH 60A DISCONNECT SWITCH WITH 40A FUSE USING 2#8CU/#10GND IN 3/4"C. SEE MECHANICAL PLAN FOR MORE INFORMATION.
9. RECIRCUIT EXISTING OUTLET AS SHOWN.

Room Schedule

3A01	Exist. Board Rm.	3B31	New Check-out
3A02	Exist. Hallway	3B32	New Lab
3A03	Exist. Ultrasound	3B33	New ADA Restroom
3A04	Exist. Office	3B34	New Tech Room
3A05	Exist. Med Records	3B35	New Device Check
3A06	Exist. Copy	3B36	New Device Check
3A07	Exist. Office	3B37	New Storage
3A08	Exist. Files	3B38	New Exam
3A09	Exist. Office	3B39	New Exam
3A10	-----	3B40	-----
3A11	Exist. Print Area	3B41	New Closet
3A12	Exist. Office	3B42	New Office
3A13	Exist. Work Area	3B43	New Exam
3A14	Exist Office	3B44	New Exam
3A15	Exist. Work Area	3B45	New Exam
3A16	Exist. Exam	3B46	New Office
3A17	Exist. Work Area	3B47	New Office
3A18	Exist. Exam	3B48	New Office
3A19	Exist. Mail Room	3B49	New Exam
3A20	-----	3B50	-----
3A21	New ADA Restroom	3B51	New Exam
3A22	Exist. Closet	3B52	New Exam
3A23	Exist. Closet	3B53	New ADA Restroom
3A24	Exist. Office	3B54	Public Corridor
3B01	Exist. Waiting	3C01	Public Corridor
3B02	New Reception	3C02	Exist. Waiting
3B03	New Hallway	3C03	Exist. Reception
3B04	New Check-out	3C04	New MA Station
3B05	New Exam	3C05	New Exam
3B06	New Office	3C06	New Exam
3B07	New Exam	3C07	New Exam
3B08	New Office	3C08	New Office
3B09	New Exam	3C09	Exist. Hallway
3B10	-----	3C10	Exist. Office
3B11	New Office	3C11	Exist. Exam
3B12	New Exam	3C12	Exist. Exam
3B13	New Exam	3C13	Exist. Exam
3B14	New Exam	3C14	Exist. I.T.
3B15	New Print Area	3C15	Exist. Exam
3B16	New Office	3C16	Exist. Exam
3B17	New Exam	3C17	New Print Area
3B18	New Closet	3C18	New Testing Rm.
3B19	New MA Station	3C19	Exist. Restroom
3B20	-----	3C20	-----
3B21	New Office	3C21	Exist. Work Areas
3B22	New Closet	3C22	Exist. Closet
3B23	New Office	3C23	Exist. Call Center
3B24	New Dictation	3C24	Exist. Exam
3B25	New MA Station	3C25	Exist. Office
3B26	New Exam	3C26	Exist. Office
3B27	New Exam	3C27	Exist. Office
3B28	New Exam	3D01	Exist. Break Rm.
3B29	New Closet	3D02	Exist. Closet
3B30	------	3D03	Exist. Closet

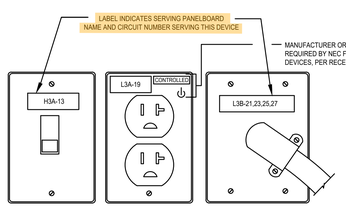
SYSTEM FURNITURE SCHEDULE & CONNECTION NOTES

1. ELECTRICAL CONTRACTOR SHALL FULLY FIELD COORDINATE FURNITURE SYSTEM WORK STATION REQUIREMENTS WITH TENANT REPRESENTATIVES AND ACTUAL FURNITURE SYSTEM SUPPLIED. PROVIDE CIRCUITS, TELEPHONE/DATA OUTLETS, AND CONDUIT PER CODES BELOW. MULTIWIRE NEUTRALS SHALL BE MIN #10AWG. STUB TELEPHONE/DATA CONDUIT UP 6" INTO ACCESSIBLE CEILING SPACE. PROVIDE PULL WIRE IN CONDUIT AND PLASTIC BUSHINGS ON CONDUIT ENDS. TELEPHONE/DATA CABLING AND DEVICES SHALL BE PROVIDED BY TENANT COMMUNICATIONS SYSTEM VENDOR UNDER SEPARATE CONTRACT. ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO FURNITURE SYSTEM WITH "SEALTIGHT" FLEXIBLE CONDUIT WHIPS. COORDINATE EXACT LOCATIONS, CONDUIT ROUTING, AND REQUIREMENTS WITH ARCHITECTURAL PLANS, PROPERTY MANAGEMENT, AND FURNITURE SYSTEM SUPPLIER PRIOR TO ROUGH IN, CORE DRILLING AND ORDERING OF EQUIPMENT, (TYPICAL).

- WALL: PROVIDE TWO FOUR INCH SQUARE (DOUBLE GANG) WALL MOUNTED JUNCTION BOXES FOR POWER AND DATA. MOUNT OUTLETS AT +15" A.F.F.
- FLOOR: PROVIDE FULLY ASSEMBLED FIRE-RATED POKE-THRU PER CODE BELOW, OR EQUAL. COORDINATE COVER COLOR WITH ARCHITECT. ELECTRICAL CONTRACTOR SHALL PROVIDE X-RAYING OF FLOOR PRIOR TO CORE DRILL. ROUTE COMM CONDUIT TO NEAREST FULL HEIGHT ACCESSIBLE WALL.
- POWER POLE: WIREMOLD #30TP-2V OR EQUAL. PROVIDE TWO FOUR INCH SQUARE (DOUBLE GANG) JUNCTION BOXES ABOVE CEILING FOR POWER AND DATA. PROVIDE DATA GROMMET SIZED PER COMM CONDUIT CODE.
- SWITCHED RECEPTACLE: WHERE DESIGNATED, PROVIDE A HALF SWITCHED RECEPTACLE FOR DUPLEX DEVICES, AND ONE REGULAR/ONE FULLY SWITCHED RECEPTACLE FOR QUADRUPLEX DEVICES. TO BE CONTROLLED BY OCCUPANCY/VACANCY SENSORS IN THE ROOM (AS OCCUPANCY). USE A RATED REMOTE PLUG LOAD CONTROLLER UPSTREAM OR INTEGRAL RECEPTACLE MATCHING/COMPATIBLE WITH LIGHTING CONTROLS PROVIDED. RECEPTACLE TO EITHER COME OR BE FIELD LABELED PER NEC REQUIREMENTS FOR CONTROLLED RECEPTACLES.
- SWITCHED BRANCH: WHERE DESIGNATED, 25% ROUNDED UP OF BRANCH CIRCUITS IN MULTIWIRE FURNITURE FEED TO BE INTERCEPTED WITH A RATED PLUG LOAD CONTROLLER, CONTROLLED BY OCCUPANCY/VACANCY SENSORS IN THE ROOM (AS OCCUPANCY). DEVICE TO MATCH/BE COMPATIBLE WITH LIGHTING CONTROLS PROVIDED. EXCEPT IN LOCATIONS WITH A SINGLE CIRCUIT, CONTROL TO BE PLACED ON A NON-DEDICATED BRANCH, VERIFIED WITH FURNITURE MANUFACTURER PRIOR TO INSTALLATION. PROVIDE ANY APPLICABLE LABELING PER THE NEC FOR CONTROLLED DEVICES.

PROVIDE ALL ACCESSORIES, PARTS, AND PIECES NECESSARY FOR A COMPLETE INSTALLATION

CODE	CIRCUIT TYPE	CODE	COMM SIZE	CODE	POWER POLE & FLOOR BOX IDENT	CODE	SWITCHING
A	4 CIRCUIT 8 WIRE	1	1/2" C	P	OWNER SUPPLIED POWER POLE	X	SWITCHED RECEPTACLE
B	3 CIRCUIT 7 WIRE	2	3/4" C	Q	NEW POWER POLE, SEE ABOVE	Y	SWITCHED BRANCH
C	3 CIRCUIT 5 WIRE	3	1" C	S	WIREMOLD 4FFATC SERIES (3/4" PWR, 1-1/4"COMM) (SINGLE CORE/DEVICE FURNITURE FEED)		
D	2 CIRCUIT 6 WIRE	4	1-1/4" C	T	WIREMOLD RC7AFFTC + RC7AM2TC (3/4" PWR, 2" COMM) (2 CORES/DEVICES FURNITURE FEED)		
E	2 CIRCUIT 4 WIRE	5	1-1/2" C	U	HUBBELL S17PTFIT (1" PWR, 1" COMM) + S1SP (DUPLEX + DATA OR 2ND DUPLEX IF NO COMM)		
F	1 CIRCUIT 3 WIRE	6	2" C	V	HUBBELL PT71SD + PT2FIT (3/4" PWR, 2" COMM) (2 CORES/DEVICES FURNITURE FEED)		
G	SEE DETAIL NOTES	7	SEE DETAIL NOTES	W	SEE DETAIL NOTES		



TYPICAL DEVICE LABELING DETAIL

SCALE: NONE

GENERAL NOTES:

A. E.C. TO PROVIDE DESCRIPTION OF USE/FUNCTION OF ANY/ALL CONTROLLED RECEPTACLES TO TENANT.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: R. Lowman
Date: Dec 13, 2021
2015 INTERNATIONAL CODES & 2020 NEC

RSN: 1594223
Permit #: 21-2083670-LT

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NEC: 2020 IECC: 2015

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REGISTERED PROFESSIONAL ENGINEER
46907
OCT 21 2021

ADCA

Dates of Record
Project Start Date: 6 April 2020

Issued On:	Issued For:
15 Oct 2021	Tenant's Review & Approval; and Construction

Sheet Contents: POWER PLAN
Project Team: RR/AW
Project Number: 21351
Sheet Mark: **E.2**

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RSN:1594223 | PERMIT# 2021-2083670-LT

Provide Emergency Illumination Equipment That complies with 2020 NEC 700.12(F) or NEC 700.

Suspended Ceiling Systems and the Luminaires They support shall meet the requirements of 410.36(B) 2020 NEC

LIGHTING FIXTURE SCHEDULE

ID	TYPE	SIZE	DESCRIPTION	MANUFACTURER	MODEL	CATALOG NUMBER	MOUNTING	DIMMING	LUMENS (LM)	TEMP (K)	CRI	VOLTS (V)	WATTS (W)	NOTES	#
A	LED	2' X 4'	RECESSED TROFFER	LITHONIA	2FLS4	2FSL4-40LEZ1-LP835	RECESSED	10% (0-10V)	4000	3500	80+	277	31.7		
B	LED	2' X 2'	RECESSED TROFFER	LITHONIA	2FLS2	2FSL2-33L-GZ10-LP835	RECESSED	10% (0-10V)	3300	3500	80+	277	27.1		
C	LED	d = 5"	DOWNLIGHT	SYLVANIA	65474	LEDRT56/R3C/900UD/9SC8	RECESSED	10% (0-10V)	900	3500	80+	277	12		
X	LED	-	EDGE LIT GREEN BLADE TYPE EXIT	LITHONIA	UNIVERSAL MOUNT EXIT SIGN	LITHONIA EDG-W-#-GW-EL	UNIVERSAL	-	-	-	-	277	-		[EX]

PROVIDE ALL PARTS AND PIECES AS NEEDED FOR COMPLETE INSTALLATION. COORDINATE FINAL LOCATIONS, MOUNTING HEIGHTS, AND FIXTURE OPTIONS WITH ARCHITECT AND/OR TENANT.
FIXTURES ON SCHEDULE MAY BE SHOWN FOR REFERENCE ONLY. VERIFY FIXTURE QUANTITIES WITH DRAWINGS PRIOR TO ORDERING.
* COORDINATE OPTION WITH ARCHITECT/TENANT.
EG **PROVIDE EG FIXTURES WITH 90-MIN UL924 SWITCHABLE BATTERY BACKUP AND TEST SWITCH AND CIRCUIT TO LOCAL LIGHTING CIRCUIT AHEAD OF MANUAL CONTROL, BUT NOT SENSORS. CONNECT SWITCH LEADS SO POWER FAILURE OVERRIDES SENSOR CONTROL.**
[EX] **PROVIDE EXIT SIGNS WITH 90-MIN BATTERY BACKUP AND CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF CONTROL.**
NL **PROVIDE NL FIXTURES WITH 90-MIN BATTERY BACKUP AND TEST SWITCH AND CIRCUIT TO LOCAL LIGHTING CIRCUIT AHEAD OF CONTROL.**

2015 IECC CONTROL MATRIX

SPACE TYPE	MAN. ON	MAN. OFF	MAN. DIM	OVRD. SW. (TC)	TC ON	TC OFF	OCC. SENS. ON	OCC. SENS. OFF	12PM-6AM DIM 30% DOWN	DAY-LTG. DIM	90-MIN BATT./ GENRTR.	EXT. PHOTO -CELL	REMARKS:
PRIVATE OFFICE/EXAM ROOM	X	X	*	**	**	**		X					
OPEN OFFICE AREA	X	X	*	**	**	**	X	X					DUAL LEVEL CONTROL THIS AREA. ONLY 50% TO BE AUTO ON.
DAYLIGHT ZONES	X	X	*	**	**	**		X		X			SEPARATE SWITCH FROM OTHER ZONES
WALK IN COOLER/FREEZER	X	X	*	**	**	**	X	X					
TRAINING/CLASS/CONFERENCE/BREAK/COPY/WORK/LAB/LOCKER	X	X	*	**	**	**		X					
STORAGE/CLOSETS/DATA	X	X	*	**	**	**		X					
HALLWAYS/LOBBIES	X	X	*	**	**	**	X	X					
ENTRY VESTIBULES/STAIRWELLS													NIGHTLIGHT BASED ON SAFETY/SECURITY EXCEPTION
RESTROOMS	X	X	*	**	**	**	X	X					
ELECTRICAL/MECHANICAL ROOMS	X	X	*	**	**	**	X	X					PROVIDE OVERRIDE SWITCH FOR SENSOR CONTROL
COMMERCIAL KITCHEN	X	X	*	**	**	**	X	X					
PHARMACY/GYM/LIBRARY	X	X	*	**	**	**	X	X					DUAL LEVEL CONTROL THIS AREA. ONLY 50% TO BE AUTO ON.
WAREHOUSE - AISLES	X	X	*	**	**	**	X	X					EACH AISLE INDEPENDENT
WAREHOUSE - OPEN AREA	X	X	*	**	**	**	X	X					DUAL LEVEL CONTROL THIS AREA. ONLY 50% TO BE AUTO ON.
RETAIL/RESTAURANT SEATING	X	X	*	**	**	**							DUAL LEVEL CONTROL MINIMUM, UNLESS DIMMED
SPECIFIC APPLICATION CONTROL	X	X	*										MANUAL ONLY PER IECC
FACTORY/INDUSTRIAL	X	X	*	**	**	**	X	X					DUAL LEVEL CONTROL THIS AREA. ONLY 50% TO BE AUTO ON.
EXTERIOR SITE LIGHTING					X	X			X			X	
EXTERIOR FAÇADE/WALLPACKS					X	X						X	
LOADING DOCK					X	X						X	
EXTERIOR EG WALLPACKS					X	X					X	X	UL924/SWITCHED LEADS
INTERIOR EG NON-NL				**	**	**	X***	X***			X		UL924/SWITCHED LEADS. SENSOR IN PARALLEL WITH TC
INTERIOR EG NL (EXIT SIGNS / FIXTURES DESIGNATED NL)											X		NIGHTLIGHT BASED ON SAFETY/SECURITY EXCEPTION

NOTE: E.C. TO PROVIDE SHOP DRAWINGS AND SUBMITTALS THROUGH THE APPROPRIATE LIGHTING CONTROLS MANUFACTURER REPRESENTATIVE TO MEET THE ABOVE CONTROL INTENT. SEE OCCUPANCY/VACANCY/DAYLIGHT SENSOR SCHEDULE ON COVERSHEET FOR MORE DETAILS. PROVIDE ADDITIONAL POWER PACKS WHERE CONTROLLING MULTIPLE/ADDITIONAL VOLTAGES.
*** MANUAL DIMMING WHERE REQUIRED BY PLANS.**
**** OVERRIDE SWITCH AND TIME CLOCK CONTROL WHERE/IF NOTED ON PLANS.**
***** PROVIDE SECOND OCCUPANCY POWER PACK WHERE CONTROLLED IN ROOMS WITH VACANCY SENSORS.**

N

LIGHTING PLAN

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

GENERAL NOTES:
A. NEW AND RELOCATED ITEMS SHOWN AS BOLD ——— EXISTING ITEMS SHOWN AS LIGHT ———
B. LOWER CASE LETTERING INDICATED ON SWITCHES AND FIXTURES IF SHOWN, WHICH SWITCHES CONTROL WHICH FIXTURES.

DETAIL NOTES

1. CONNECT TO LOCAL LIGHTING CIRCUIT (AND CONTROLS, AS APPLICABLE). E.C. TO VERIFY NO MORE THAN 70% LOAD ON A SINGLE 277V LIGHTING CIRCUIT.
2. DAYLIGHT DIMMING NOT APPLIED. FIXTURES IN DAYLIGHT ZONE ARE LESS THAN 150W TOTAL PER SPACE.
3. ANY EXISTING LIGHTING CONTROL FOR DOWNLIGHT AND PENDANT LIGHT IN ROOM TO REMAIN.

Room Schedule

3A01	Exist. Board Rm.	3B31	New Check-out
3A02	Exist. Hallway	3B32	New Lab
3A03	Exist. Ultrasound	3B33	New ADA Restroom
3A04	Exist. Office	3B34	New Tech Room
3A05	Exist. Med Records	3B35	New Device Check
3A06	Exist. Copy	3B36	New Device Check
3A07	Exist. Office	3B37	New Storage
3A08	Exist. Files	3B38	New Exam
3A09	Exist. Office	3B39	New Exam
3A10	-----	3B40	-----
3A11	Exist. Print Area	3B41	New Closet
3A12	Exist. Office	3B42	New Office
3A13	Exist. Work Area	3B43	New Exam
3A14	Exist Office	3B44	New Exam
3A15	Exist. Work Area	3B45	New Exam
3A16	Exist. Exam	3B46	New Office
3A17	Exist. Work Area	3B47	New Office
3A18	Exist. Exam	3B48	New Office
3A19	Exist. Mail Room	3B49	New Exam
3A20	-----	3B50	-----
3A21	New ADA Restroom	3B51	New Exam
3A22	Exist. Closet	3B52	New Exam
3A23	Exist. Closet	3B53	New ADA Restroom
3A24	Exist. Office	3B54	Public Corridor
3B01	Exist. Waiting	3C01	Public Corridor
3B02	New Reception	3C02	Exist. Waiting
3B03	New Hallway	3C03	Exist. Reception
3B04	New Check-out	3C04	New MA Station
3B05	New Exam	3C05	New Exam
3B06	New Office	3C06	New Exam
3B07	New Exam	3C07	New Exam
3B08	New Office	3C08	New Office
3B09	New Exam	3C09	Exist. Hallway
3B10	-----	3C10	Exist. Office
3B11	New Office	3C11	Exist. Exam
3B12	New Exam	3C12	Exist. Exam
3B13	New Exam	3C13	Exist. Exam
3B14	New Exam	3C14	Exist. I.T.
3B15	New Print Area	3C15	Exist. Exam
3B16	New Office	3C16	Exist. Exam
3B17	New Exam	3C17	New Print Area
3B18	New Closet	3C18	New Testing Rm.
3B19	New MA Station	3C19	Exist. Restroom
3B20	-----	3C20	-----
3B21	New Office	3C21	Exist. Work Areas
3B22	New Closet	3C22	Exist. Closet
3B23	New Office	3C23	Exist. Call Center
3B24	New Dictation	3C24	Exist. Exam
3B25	New MA Station	3C25	Exist. Office
3B26	New Exam	3C26	Exist. Office
3B27	New Exam	3C27	Exist. Office
3B28	New Exam	3D01	Exist. Break Rm.
3B29	New Closet	3D02	Exist. Closet
3B30	-----	3D03	Exist. Closet

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REGISTERED PROFESSIONAL ENGINEER
46907
OCT 21 2021

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Dates of Record
Project Start Date: ***6 April 2020***

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City of Aurora Building Division
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Approved as Noted: *R. Lowman*
Date: *Dec 13, 2021*
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RSN: *1594223*
Permit #: *21-2083670-LT*

Sheet Contents	LIGHTING PLAN
Project Team	RR/AW
Project Number	21351
Sheet Mark	***E.3***

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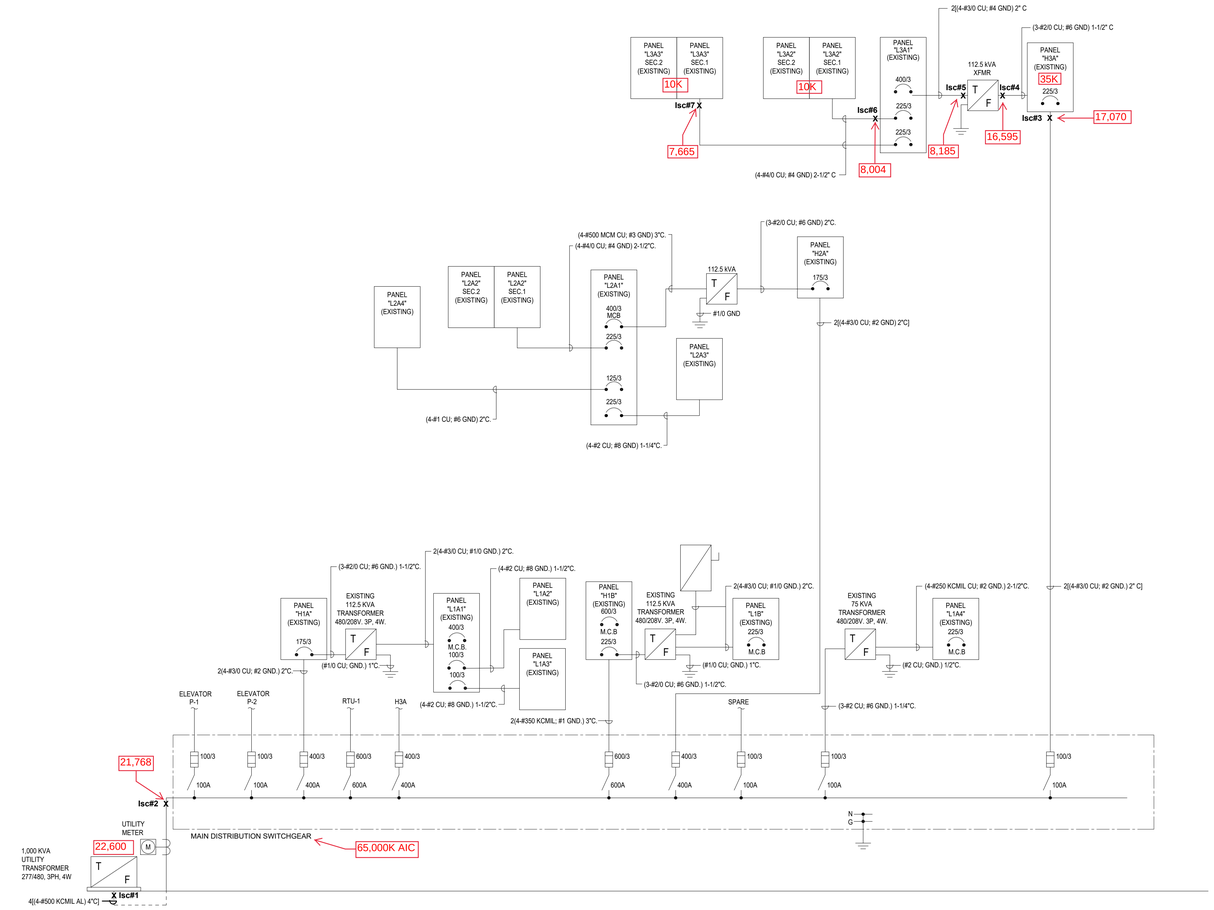
RSN:1594223 | PERMIT# 2021-2083670-LT

3 PHASE - FAULT CURRENT CALCULATIONS

Maximum Available Fault Current (Iaic)
I sca = (I aic x M)
where M = 1 / (1 + f), and f = (1.73 x L x Iaic) / (C x n x Vp)
(note: type 0 for 1/0AWG, 00 for 2/0 AWG, 000 for 3/0 AWG, 0000 for 4/0 Awg)

Isc Point	Fault Location	Equipment AIC rating	Distance, feet (L)	Wire Size	Wires / Ph (n)	CU (X): AL-LJ	Raceway Steel (X); PVC (J)	Voltage Primary (Vp)	Voltage Secondary (Vs)	Wire Factor (C)	Upstream fault value (Iaic)	Fault Value at Equipment (Isc)	Transformer size (kVA)	Transformer Impedence (%Z)
1	Utility Transformer 1000 kVA											22,600		
2	Main Switchgear	65,000	50	500	4	X		480		106824	22,600	21,769		
3	Panel H3A	35,000	90	000	2	X	X	480		25686	21,769	17,071		
4	Before 112.5 kVA	NA	5	00	1	X	X	480		10755	17,071	16,596		
5	After XFMR, Panel L3A1	NA						480	208		16,596	8,185	112.5	3
6	Panel L3A2	10,000	5	0000	1	X	X	208		15082	8,185	8,004		
7	Panel L3A3	10,000	10	0000	1	X	X	208		15082	8,004	7,665		



PARTIAL ONE-LINE DIAGRAM

SCALE: NONE NO NEW WORK

Install electrical connections per 2020 NEC 110.14, Identify disconnects per 2020 NEC 110.22 and provide working space around Electrical equipment per 2020 NEC 110.26

Provide a Grounding Electrode System bonded To the service equipment enclosure, grounded Conductors, and grounded electrode conductors Per 2020 NEC 250.50 and 250.104

Every circuit and circuit modification shall be legibly Identified as to it's clear, evident and specific purpose or use. The identification shall include an approved degree of detail that allows each circuit to be distinguished from all others. 2020 NEC 408.4

Service Equipment shall be permanently And legibly marked to show the available Fault current and date. 2020 NEC 110.24(A)(B)

Locate the required overcurrent Protection per 2020 NEC 240.21

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *R. Lowman*
Date: *Dec 13, 2021*
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Sheet Contents	ONE-LINE DIAGRAM
Project Team	RR/AW
Project Number	21351
Sheet Mark	***E.4***

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RSN:1594223 | PERMIT# 2021-2083670-LT

SUPPLIED FROM: 400A/3P BREAKER FROM MAIN SWITCHGEAR

PANEL "H3A" (EXISTING) **VOLTAGE** 277 / 480 V 3 Φ 4 W
FLUSH **M.C.B.** 400 A **MLO** **I.G. BAR** **MANF.** GE
SURFACE X **BUS** 400 A CU **A.I.C.** 35 K **C.B.** BOLT ON

TYPE	DESCRIPTION	BKR	CIR	LOAD (VOLT AMPS) / PHASE A	B	C	CIR	BKR	DESCRIPTION	TYPE
M	FTU5	30	1	2742	2000		2	20	LIGHTING	L
M	FTU2	30	3		2742	2000	4	20	LIGHTING	L
M	FTU3	30	5			2742 2000	6	20	LIGHTING	L
M	FTU6	30	7	2742	2000		8	20	LIGHTING	L
M	FTU4	30	9		2742	2000	10	20	LIGHTING	L
M	FTU7	30	11			2742 2000	12	20	LIGHTING	L
M	EF1	45	13	4113	0		14	45	EXISTING LOAD	
M	-	/	15		4113	0	16	/	-	
M	-	3P	17			4113 0	18	3P	-	
M	FTU1	30	19	2742	2000		20	20	LIGHTING	L
	SPARE	20	21		0	2000	22	20	LIGHTING	L
	FTU-SUITE 360	30	23			0 2000	24	20	LIGHTING	L
	SPARE	20	25	0	2000		26	20	LIGHTING	L
	SPARE	20	27		0	2000	28	20	LIGHTING	L
	SPARE	20	29			0 4115	30	45		G
	SPARE	20	31	0	4115		32	/	-	G
	SPARE	20	33		0	4115	34	3P	-	G
	SPARE	20	35			0 6104	36	40	FTU-3A	MG 1
G	EXISTING LOAD	50	37	4573	4573		38	50	EXISTING LOAD	G
G	-	/	39		4573	4573	40	/	-	G
G	-	3P	41			4573 4573	42	3P	-	G
G	EXISTING LOAD	50	43	4573	4573		44	50	EXISTING LOAD	G
G	-	/	45		4573	4573	46	/	-	G
G	-	3P	47			4573 4573	48	3P	-	G
G	EXISTING LOAD	50	49	4573	0		50	50	SPARE	
G	-	/	51		4573	0	52	/	-	
G	-	3P	53			4573 0	54	3P	-	
	SPACE	-	55	0	49050		56	175	112.5KVA XFMR	LRMKG
	SPACE	-	57		0	48946	58	/	-	LRMKG
	SPACE	-	59			0 47323	60	3P	-	LRMG

LOAD TYPE	CONNECTED KVA A	B	C	TOTAL ALL PHASES	FACTOR	DEMAND KVA A	B	C	TOTAL ALL PHASES
	96369			93522	96003				
LIGHTING / EV CHARGERS	10.2	9.0	8.7	27.9	125%	12.8	11.3	10.9	35
RECEPTACLE (10KVA OR LESS)	3.3	3.3	3.3	10.0	100%	3.3	3.3	3.3	10
RECEPTACLE (OVER 10KVA)	32.9	34.1	30.3	97.3	50%	16.4	17.1	15.2	49
HVAC/MOTOR	9.7	6.5	7.1	23.3	100%	9.7	6.5	7.1	23
MOTOR (LARGEST)	4.1	4.1	4.1	12.3	125%	5.1	5.1	5.1	15
KITCHEN EQUIPMENT	1.0	0.8	0.0	1.8	100%	1.0	0.8	0.0	2
MISCELLANEOUS	35.1	35.7	42.4	113.3	100%	35.1	35.7	42.4	113
TOTAL KVA	96.4	93.5	96.0	285.9	TOTAL KVA	83.5	79.7	84.0	247
WITH GROUND BUS					TOTAL AMPS	301.5	287.9	303.4	297

LEGEND L = LTG / EV R = RECEPTACLE M = HVAC / MOTOR K = KITCHEN G = MISCELLANEOUS
MAX PERCENT DIFFERENCE BETWEEN PHASES (A,B,C): 3%

1 PROVIDE AND INSTALL NEW BREAKER TO MATCH PANEL MANUFACTURER AND AIC RATING, COORDINATE WITH MANUFACTURER'S REP.

SUPPLIED FROM: L3A1

PANEL "L3A2SEC1" (EXISTING) **VOLTAGE** 120 / 208 V 3 Φ 4 W
FLUSH **M.C.B.** **MLO** X **I.G. BAR** **MANF.**
SURFACE X **BUS** 225 A CU **FEED THRU** L3A2SEC2 **A.I.C.** 10 K **C.B.** BOLT ON

TYPE	DESCRIPTION	BKR	CIR	LOAD (VOLT AMPS) / PHASE A	B	C	CIR	BKR	DESCRIPTION	TYPE
R	NUC CAMERA	20	1	720	720		2	20	REC	R
R	EXISTING	20	3		720	720	4	20	REC	R
R	REC	20	5			720 500	6	20	ECHO EQUIPMENT	G
R	REC	20	7	720	500		8	20	ECHO EQUIPMENT	G
R	REC	20	9		720	720	10	20	REC	R
R	REC	20	11			720 720	12	20	REC	R
R	REC	20	13	720	500		14	20	COPIER	G
R	REC	20	15		720	720	16	20	REC	R
R	REC	20	17			720 720	18	20	REC	R
R	REC	2P	19	720	720		20	20	REC	R
R	REC	20	21		720	720	22	20	REC	R
R	REC	20	23			720 720	24	20	REC	R
R	REC	20	25	720	720		26	20	REC	R
R	REC	20	27		720	720	28	20	REC	R
R	REC	20	29			720 720	30	20	REC	R
R	REC	20	31	720	720		32	20	REC	R
R	REC	20	33		720	720	34	20	REC	R
R	REC	20	35			720 720	36	20	REC	R
R	REC	20	37	720	720		38	20	REC	R
R	REC	20	39		720	720	40	20	REC	R
R	REC	20	41			720 720	42	20	REC	R

	A	B	C
L3A2SEC1	9640	10080	9860
L3A2SEC2	9430	9576	8843
TOTAL	19070	19656	18703

LOAD TYPE	CONNECTED KVA A	B	C	TOTAL ALL PHASES	FACTOR	DEMAND KVA A	B	C	TOTAL ALL PHASES
LIGHTING / EV CHARGERS	0.5	0.5	1.0	2.0	125%	0.6	0.6	1.3	3
RECEPTACLE (10KVA OR LESS)	3.3	3.3	3.3	10.0	100%	3.3	3.3	3.3	10
RECEPTACLE (OVER 10KVA)	11.1	11.1	8.9	31.0	50%	5.5	5.5	4.5	16
HVAC/MOTOR	0.0	0.0	0.0	0.0	100%	0.0	0.0	0.0	0
MOTOR (LARGEST)	0.0	0.0	0.0	0.0	125%	0.0	0.0	0.0	0
KITCHEN EQUIPMENT	0.0	0.0	0.0	0.0	100%	0.0	0.0	0.0	0
MISCELLANEOUS	4.2	4.8	5.5	14.4	100%	4.2	4.8	5.5	14
TOTAL KVA	19.1	19.7	18.7	57.4	TOTAL KVA	13.7	14.2	14.5	42
WITH GROUND BUS					TOTAL AMPS	113.8	118.7	120.8	118

LEGEND L = LTG / EV R = RECEPTACLE M = HVAC / MOTOR K = KITCHEN G = MISCELLANEOUS
MAX PERCENT DIFFERENCE BETWEEN PHASES (A,B,C): 5%

PANEL SHOWN FOR REFERENCE ONLY.

SUPPLIED FROM: L3A3

PANEL "L3A3SEC1" (EXISTING) **VOLTAGE** 120 / 208 V 3 Φ 4 W
FLUSH **M.C.B.** **MLO** X **I.G. BAR** **MANF.**
SURFACE X **BUS** 225 A CU **FEED THRU** L3A3SEC2 **A.I.C.** 10 K **C.B.** BOLT ON

	TYPE	DESCRIPTION	BKR	CIR	LOAD (VOLT AMPS) / PHASE A	B	C	CIR	BKR	DESCRIPTION	TYPE	
1	R	REC	20	1	1080	1260		2	20	REC	R	1
	G	REC - COPIER	20	3		1000	1260	4	20	REC	R	1
1	R	REC	20	5			900 1260	6	20	REC	R	1
1	R	REC	20	7	1080	1260		8	20	REC	R	1
1	R	REC	20	9		1080	1260	10	20	REC	R	1
1	R	REC	20	11			1080 1260	12	20	REC	R	1
1	R	REC	20	13	1080	1260		14	20	REC	R	1
1	R	REC	20	15		1080	1260	16	20	REC	R	1
1	G	COPIER	20	17			1000 1260	18	20	REC	R	1
1	G	PRINTER	20	19	1000	1260		20	20	REC	R	1
1	R	REC	20	21		1080	1260	22	20	REC	R	1
	R	REC - CORRIDOR	20	23			720 720	24	20	REC	R	1
1	R	REC	20	25	1080	1080		26	20	REC	R	1
1	R	REC	20	27		1080	1260	28	20	REC	R	1
	R	REC TOILET	20	29			720 1080	30	20	REC	R	1
	R	REC - CHECKOUT	20	31	1080	900		32	20	REC	R	1
1	R	REC	20	33		1080	540	34	20	REC	R	1
	R	REC	20	35			720 180	36	20	REC	R	1
	R	REC	20	37	720	360		38	20	REC	R	1
	R	REC	20	39		720	1080	40	20	REC	R	1
	R	REC	20	41			720 1080	42	20	REC	R	1

	A	B	C
L3A3SEC1	14500	15040	12700
L3A3SEC2	8980	9450	9420
TOTAL	23480	24490	22120

LOAD TYPE	CONNECTED KVA A	B	C	TOTAL ALL PHASES	FACTOR	DEMAND KVA A	B	C	TOTAL ALL PHASES
LIGHTING / EV CHARGERS	0.5	0.5	0.5	1.5	125%	0.6	0.6	0.6	2
RECEPTACLE (10KVA OR LESS)	3.3	3.3	3.3	10.0	100%	3.3	3.3	3.3	10
RECEPTACLE (OVER 10KVA)	16.7	17.9	16.3	50.8	50%	8.3	9.0	8.1	25
HVAC/MOTOR	0.5	0.5	0.5	1.5	100%	0.5	0.5	0.5	2
MOTOR (LARGEST)	0.5	0.5	0.5	1.5	125%	0.6	0.6	0.6	2
KITCHEN EQUIPMENT	1.0	0.8	0.0	1.8	100%	1.0	0.8	0.0	2
MISCELLANEOUS	1.0	1.0	1.0	3.0	100%	1.0	1.0	1.0	3
TOTAL KVA	23.5	24.5	22.1	70.1	TOTAL KVA	15.4	15.8	14.2	45
WITH GROUND BUS					TOTAL AMPS	128.4	131.5	118.5	126

LEGEND L = LTG / EV R = RECEPTACLE M = HVAC / MOTOR K = KITCHEN G = MISCELLANEOUS
MAX PERCENT DIFFERENCE BETWEEN PHASES (A,B,C): 10%

1 CIRCUIT REVISED THIS CONTRACT.

SUPPLIED FROM: 112.5KVA XFMR

PANEL "L3A1" (EXISTING) **VOLTAGE** 120 / 208 V 3 Φ 4 W
FLUSH **M.C.B.** 400 A **MLO** **I.G. BAR** **MANF.**
SURFACE X **BUS** 400 A CU **A.I.C.** 10 K **C.B.** BOLT ON

TYPE	DESCRIPTION	BKR	CIR	LOAD (VOLT AMPS) / PHASE A	B	C	CIR	BKR	DESCRIPTION	TYPE
LRG	L3A2	225	1	19070	0		2	20	SPARE	
LRG	-	/	3		19656	0	4	/	-	
LRG	-	3P	5			18703 0	6	3P	-	
LRMKG	L3A3	225	7	23480	0		8	20	SPARE	
LRMKG	-	/	9		24490	0	10	/	-	
LRMG	-	3P	11			22120 0	12	3P	-	
	BLANK	-	13	0	0		14	20	SPARE	
	BLANK	-	15		0	0	16	/	-	
	BLANK	-	17			0 0	18	3P	-	
	SPARE	20	19	0	720		20	20	REC	R
	SPARE	20	21		0	720	22	20	REC	R
R	RR REC	20	23			720 720	24	20	REC	R
G	UNIT HEATER	30	25	1500	720		26	20	REC	R
G	-	/	27		1500	720	28	20	REC	R
G	-	3P	29			1500 500	30	20	EF	M
	SPARE	20	31	0	500		32	20	EF	M
	SPARE	20	33		0	720	34	20	ELEVATOR	R
L	LTG	20	35			1200 720	36	20	EXISTING	R
L	LTG	20	37	1200	720		38	20	FS DAMPER	R
	SPARE	20	39		0	1500	40	20	WATER HEATER	G
R	EXISTING	20	41			720 1500	42	20	WATER HEATER	G
R	EXISTING	20	43	720	1500		44	20	WATER HEATER	G
R	EXISTING	20	45		720	0	46	-	SPACE	
	SPACE	-	47			0 0	48	-	SPACE	

LOAD TYPE	CONNECTED KVA A	B	C	TOTAL ALL PHASES	FACTOR	DEMAND KVA A	B	C	TOTAL ALL PHASES
	50130			50026	48403				
LIGHTING / EV CHARGERS	2.2	1.0	2.7	5.9	125%	2.8	1.3	3.4	7
RECEPTACLE (10KVA OR LESS)	3.3	3.3	3.3	10.0	100%	3.3	3.3	3.3	10
RECEPTACLE (OVER 10KVA)	33.9	35.2	31.4	100.5	50%	17.0	17.6	15.7	50
HVAC/MOTOR	1.0	0.5	1.0	2.5	100%	1.0	0.5	1.0	3
MOTOR (LARGEST)	0.5	0.5	0.5	1.5	125%	0.6	0.6	0.6	2
KITCHEN EQUIPMENT	1.0	0.8	0.0	1.8	100%	1.0	0.8	0.0	2
MISCELLANEOUS	8.2	8.8	9.5	26.4	100%	8.2	8.8	9.5	26
TOTAL KVA	50.1	50.0	48.4	148.6	TOTAL KVA	33.8	32.8	33.5	100
WITH GROUND BUS					TOTAL AMPS	282.0	273.4	279.1	278

LEGEND L = LTG / EV R = RECEPTACLE M = HVAC / MOTOR K = KITCHEN G = MISCELLANEOUS
MAX PERCENT DIFFERENCE BETWEEN PHASES (A,B,C): 3%

PANEL SHOWN FOR REFERENCE ONLY.

SUPPLIED FROM: L3A2SEC1

PANEL "L3A2SEC2" (EXISTING) **VOLTAGE** 120 / 208 V 3 Φ 4 W
FLUSH **M.C.B.** **MLO** X **I.G. BAR** **MANF.**
SURFACE X **BUS** 225 A CU **A.I.C.** 10 K **C.B.** BOLT ON

TYPE	DESCRIPTION	BKR	CIR	LOAD (VOLT AMPS) / PHASE A	B	C	CIR	BKR	DESCRIPTION	TYPE
R	REC	20	43	720	720		44	20	REC	R
R	REC	20	45		720	720	46	20	REC	R
L	LTG	20	47			500 720	48	20	REC	R
L	LTG	20	49	500	720		50	20	REC	R
L	LTG	20	51		500	793	52	20	ECHO EQUIPMENT	G
L	LTG	20	53			500 793	54	20	ECHO EQUIPMENT	G
R	EXISTING	20	55	720	793		56	20	TREAD EQUIPMENT	G
R	-	2P	57		720	793	58	20	TREAD EQUIPMENT	G
	BLANK	-	59			0 793	60	2P	-	G
	BLANK	-	61	0	793		62	20	TREAD EQUIPMENT	G
	BLANK	-	63		0	793	64	2P	-	G
	BLANK	-	65			0 720	66	20	REC	R
R	REC	20	67	720	720		68	20	REC	R
G	ACCU-1	20	69		793	720	70	20	REC	R
G	-	2P	71			793 720	72	20	REC	R
G	ACCU2	20	73	793	720		74	20	REC	R
G	-	2P	75		793	720	76	20	REC	R
G	AC1	20	77			793 720	78	20	EXISTING	R
G	-	2P	79	793	720		80	/	-	R
G	AC2	20	81		793	720	82	3P	-	R
G	-	2P	83			793 1000	84	20	3A03 DED REC	G

	A	B	C
	9430	9576	8843
TOTAL	8980	9450	9420

LOAD TYPE	CONNECTED KVA A	B	C	TOTAL ALL PHASES	FACTOR	DEMAND KVA A	B	C	TOTAL ALL PHASES
LIGHTING / EV CHARGERS	0.5	0.5	1.0	2.0	125%	0.6	0.6	1.3	3
RECEPTACLE (10KVA OR LESS)	3.3	3.3	2.9	10.0	100%	3.3	3.3	2.9	10
RECEPTACLE (OVER 10KVA)	2.4	1.0	0.0	3.0	50%	1.2	0.5	0.0	2
HVAC/MOTOR	0.0	0.0	0.0	0.0	100%	0.0	0.0	0.0	0
MOTOR (LARGEST)	0.0	0.0	0.0	0.0	125%	0.0	0.0	0.0	0
KITCHEN EQUIPMENT	0.0	0.0	0.0	0.0	100%	0.0	0.0	0.0	0
MISCELLANEOUS	3.2	4.8	5.0	12.9	100%	3.2	4.8	5.0	13
TOTAL KVA	9.4	9.6	8.8	27.8	TOTAL KVA	8.3	9.2	9.1	27
WITH GROUND BUS					TOTAL AMPS	69.5	76.7	75.8	74

LEGEND L = LTG / EV R = RECEPTACLE M = HVAC / MOTOR K = KITCHEN G = MISCELLANEOUS
MAX PERCENT DIFFERENCE BETWEEN PHASES (A,B,C): 8%

1 CIRCUIT REVISED THIS CONTRACT.

SUPPLIED FROM: L3A3SEC1

PANEL "L3A3SEC2" (EXISTING) **VOLTAGE** 120 / 208 V 3 Φ 4 W
FLUSH **M.C.B.** **MLO** X **I.G. BAR** **MANF.**
SURFACE X **BUS** 225 A CU **A.I.C.** 10 K **C.B.** BOLT ON

TYPE	DESCRIPTION	BKR	CIR	LOAD (VOLT AMPS) / PHASE A	B	C	CIR	BKR	DESCRIPTION	TYPE
R	REC	20	43	720	0		44	20	REC	
R	REC	20	45		720	500	46	20	LTG	L
R	REC	20	47			720 500	48	20	LTG	L
R	REC	20	49	720	500		50	20	LTG	L
R	REC	20	51		720	500	52	20	FTU8	M
R	REC	20	53			720 500	54	20	FTU9	M
R	REC	20	55	720	500		56	20	FTU12	M
R	REC	20	57		720	500	58	20	FTU15	M
R	REC	20	59			720 500	60	20	FTU16	M
R	REC	20	61	720	500		62	20	FTU17	M
R	REC	20	63		720	720	64	20	HALL REC	R
R	REC	20	65			720 720	66	20	RR	R
R	REC	20	67	720	720		68	20	MA STATION	R
R	REC	20	69		720	720	70	20	MA STATION	R
R	REC	20	71			720 720	72	20	MA STATION	R
R	REC	20	73	720	1000		74	20	BREAK REC	K
R	REC	20	75		720	750	76	20	REF	K
R	REC	20	77			720 720	78	20	EXAM REC	R
R	REC	20	79	720	720		80	20	EXAM REC	R
R	REC	20	81		720	720	82	20	EXAM REC	R
R	REC	20	83			720 720	84	20	EXAM REC	R

	A	B	C
	8980	9450	9420

LOAD TYPE	CONNECTED KVA A	B	C	TOTAL ALL PHASES	FACTOR	DEMAND KVA A	B	C	TOTAL ALL PHASES
LIGHTING / EV CHARGERS	0.5	0.5	0.5	1.5	125%	0.6	0.6	0.6	2
RECEPTACLE (10KVA OR LESS)	3.3	3.3	3.3	10.0	100%	3.3	3.3	3.3	10
RECEPTACLE (OVER 10KVA)	3.2	3.9	4.6	11.6	50%	1.6	1.9	2.3	6
HVAC/MOTOR	0.5	0.5	0.5	1.5	100%	0.5	0.5	0.5	2
MOTOR (LARGEST)	0.5	0.5	0.5	1.5	125%	0.6	0.6	0.6	2
KITCHEN EQUIPMENT	1.0	0.8	0.0	1.8	100%	1.0	0.8	0.0	2
MISCELLANEOUS	0.0	0.0	0.0	0.0	100%	0.0	0.0	0.0	0
TOTAL KVA	9.0	9.5	9.4	27.9	TOTAL KVA	7.7	7.8	7.4	23
WITH GROUND BUS					TOTAL AMPS	63.8	64.7	61.5	63

LEGEND L = LTG / EV R = RECEPTACLE M = HVAC / MOTOR K = KITCHEN G = MISCELLANEOUS
MAX PERCENT DIFFERENCE BETWEEN PHASES (A,B,C): 5%

1 CIRCUIT REVISED THIS CONTRACT, LOAD ADDED TO PREVIOUSLY SPARE BREAKER.

Service Equipment shall be permanently And legibly marked to show the available Fault current and date. 2020 NEC 110.24(A)(B)

Every circuit and circuit modification shall be legibly Identified as to it's clear, evident and specific purpose or use. The identification shall include an approved degree of detail that allows each circuit to be distinguished from all others. 2020 NEC 408.4

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted:R. Lowman
Date:Dec 13, 2021
2015 INTERNATIONAL CODES & 2020 NEC

RSN: 1594223
Permit #: 21-2083670-LT

COREY Electrical Engineering, Inc.
7922 S. Wheeling Ct. Suite B, Englewood, CO 80112 | P (303) 696-1527 | projects@coreyeng.com
NEC: 2020 IECC: 2015

1444 South Potomac Street
1444 South Potomac Street
Aurora, CO 80012
Suite 300

ADCA

REGISTERED PROFESSIONAL ENGINEER 46907 OCT 21 2021

Dates of Record
Project Start Date: 6 April 2020

Issued On:	Issued For:
15 Oct 2021	Tenant's Review & Approval; and Construction

Sheet Contents	PANEL SCHEDULES
Project Team	RR/AW
Project Number	21351
Sheet Mark	**E.5**

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RSN:1594223 | PERMIT# 2021-2083670-LT

COMcheck Software Version 4.1.5.3

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: ADCA REMODEL
Project Type: Alteration

Construction Site:
1444 S POTOMAC ST
STE 300
AURORA, CO

Owner/Agent:

Designer/Contractor:
ROUSSAB RASHID
COREY ELECTRIACL ENGINEERING
7822 S WHEELING CT STE B
ENGLEWOOD, CO

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Healthcare Facility:Exam/Treatment	13286	1.66	22055
		Total Allowed Watts =	22055

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Healthcare Facility:Exam/Treatment (13286 sq.ft.)				
Linear Fluorescent (Existing): 48" T8 32W: Dimming:	3	13	96	1248
CFL Downlight (Existing): 48" T8 32W: Dimming:	1	25	25	625
CFL Pendant (Existing): 48" T8 32W: Dimming:	1	2	25	50
LED 1: A: Other:	1	125	32	4000
LED 1 copy 1: B: Other:	1	19	27	513
LED 1 copy 2: C: Other:	1	10	12	120
			Total Proposed Watts =	6556

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Roussab Rashid - Project Engineer — Name - Title
Roussab Rashid — Signature
10/12/2021 — Date

COMcheck Software Version 4.1.5.3

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15][1]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1 [EL18][1]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.2.3 [EL23][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2.1 [EL22][2]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3 [EL16][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20][3]	Primary sidelighted areas are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3, C405.2.3.1, C405.2.3.3 [EL21][3]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][1]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.2.5.1 [FI16][1]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *R. Lowman*
Date: *Dec 13, 2021*
2015 INTERNATIONAL CODES & 2020 NEC

RSN: *1594223*
Permit #: *21-2083670-LT*

COREY
Electrical Engineering, Inc.
7822 S. Wheeling Ct. Suite B, Englewood, CO 80112 | P: (303) 696-1527 | projects@coreyeng.com

NEC: 2020 IECC: 2015

1444 South Potomac
1444 South Potomac Street
Aurora, CO 80012
Suite 300

REGISTERED PROFESSIONAL ENGINEER
46907
OCT 21 2021
STATE OF COLORADO
#21351

ADCA

Dates of Record
Project Start Date: 6 April 2020

Issued On:	Issued For:
15 Oct 2021	Tenant's Review & Approval; and Construction

Sheet Contents: COMCHECK
Project Team: RR/AW
Project Number: 21351
Sheet Mark: **E.6**

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