Metro Denver Accident and Injury

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by John Cisneros layout tab: A0.0

1444 South Potomac • Metro Denver Accident and Injury

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

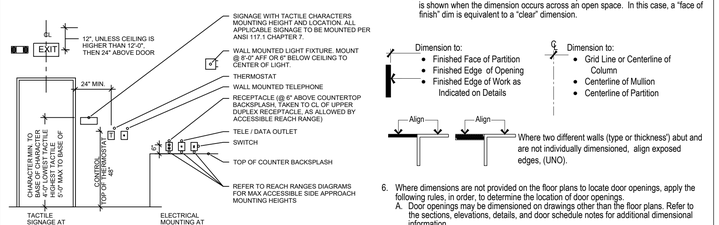
- 1 — Keyed Note
- ℄ — Center Line
- # / A1.0 — Detail Reference / Detail Number Sheet Reference
- # / A1.0 — Section Reference / Section Number Sheet Reference
- # / A1.0 — Elevation Reference / Elevation Number Sheet Reference
- 001 — Door Reference Tag, refer to Door Schedule
- PL1 — Plastic Laminate 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

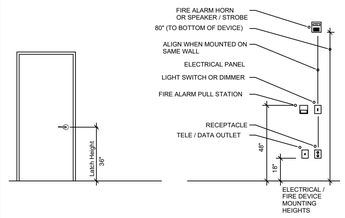
General Notes

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 clearing 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 International Building Code (IBC) Chapter 9.
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.

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).



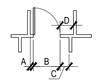


NOTES:
1. ALL DIMENSIONS ARE TO TOP OF DEVICE BOX, UNLESS NOTED OTHERWISE.
2. INSTALL ALL REQUIRED SIGNAGE IN ALL REQUIRED LOCATIONS PER NCSBC 1110 & ANSI

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



Definitions

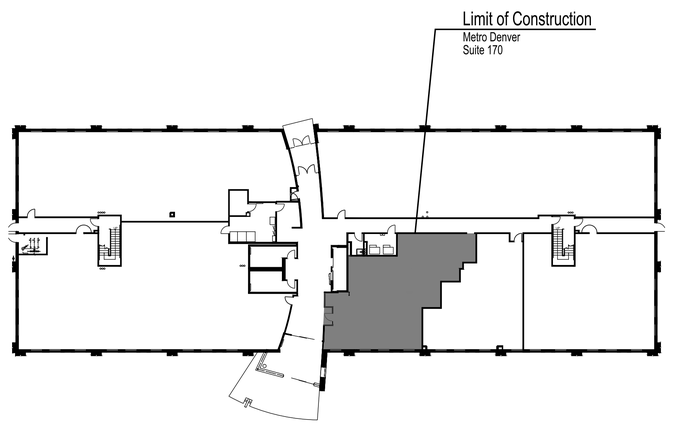
- **Approve**: where used in conjunction with TPS's or its consultant's response to submittals, requests, applications, inquiries, reports and claims by the contractor, the meaning of the term "approved" will be held to the limitations of TPS's responsibilities and duties as specified in the general 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.

City of Aurora Building Division
Project: *tenant Improvement*
Address: *144 S Potomac St*
Occupancy Group: *B*
Construction Type: *IIB-Spk*
RSN: *1754042*
Permit: *23-2388505-LT*

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

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
Date: Oct 09, 2023
2021 INTERNATIONAL CODES & 2023 NEC

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 if a separate sprinkler permit is required. If it is determined that the spacing of the fire sprinkler heads is not incompliance, then a separate fire sprinkler permit is required. Approval of the documents is required prior to system installation or any requires for inspection. A Certificate of Occupancy or final approval cannot be issued by the Building Division without this fire protection system. 2021 IFC, Section 105.6.1



1 **Proximity Plan**
Level One
Not to Scale
North

Building Proprietary Vendors

None

Written Scope of Work

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

Project Alternates

A. REMOVE WALLTILE as indicated. Skim coat and prepare partition for new finish treatments as indicated. Refer to elevation. Refer to sheets D1.0

Project Team

Designer/ Space Planner
Tenant Planning Services
1660 Lincoln Street, Suite 100
Denver, Colorado 80264
Contact: Gene Summers
Phone: 303.861.4800 x7327
Direct: 303.861.7327
Email: gene@tps.design

Building Representative
CBRE
701E. Hampden Ave Suite #370
Englewood, CO 80113
Contact: Carl Holmes
Phone: 720.641.7581
email: carl.holmes@cbre.com

Tenant Representative
Metro Denver Accident and Injury
Contact: Christopher L Higgins, DC
Phone: 720-371-8647
email: docchiggins@aol.com

Mechanical Engineer
Brian Seyferth & Associates
5583 S. Prince Street
Littleton, Colorado 80120
Contact: Bret Marin
Phone: 303.797.7772
email: bret@seyferth.com

Electrical Engineer
Corey Electrical Engineering
7822 S. Wheeling Court, Suite B
Englewood, Colorado 80112
Contact: Roussab Rashid
Phone: 303.696.1257
email: rrashid@coreyeng.com

Drawing List

A0.0	Cover Sheet
A0.1	Egress Plan
D1.0	Demolition Plan Demolition Ceiling Plan
A1.0	Construction Plan Door Schedule Partition Details
A1.1	X-Ray Details
A2.0	Power & Communications Plan Reflected Ceiling Plan
A3.0	Finish Treatment Plan Finish Schedule Elevations Details
M1.1	Mechanical Plan
E0.0	General Notes & Legend
E1.0	Demolition Plan
E2.0	Power Plan
E3.0	Lighting Plan
E4.0	One-Line Diagram
E5.0	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 _____

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

1444 South Potomac
1444 South Potomac
Aurora, CO 80012
Suite 170

COLORADO LICENSED ARCHITECT 400450 CHRISTOPHER L. HIGGINS
09.28.2023

Metro Denver Accident and Injury

Dates of Record

Project Start Date: 30 Mar 2023

Issued On	Issued For
18 Sep 2023	Tenant Review & Approval; and Construction

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428022	GBS	JC	JC	GBS

A0.0

RSN: 1754042
Permit#: 23-2388505-LT

project start date: 30 Mar 2023
dwg create date: 9/26/2023 11:56:47 AM
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by John B P1426, 1444 South Potomac428022, Chiropractor #170\Drawings\04- CDs\428022c.dwg
by John Cisneros layout tab: A0.1

Life Safety Legend

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

Room Schedule

100	Public Corridor	107	Physical Therapy
101	Waiting	108	Ext. Restroom
102	Reception	109	Treatment
103	IT	110	-----
104	Office	111	Treatment
105	X-Ray	112	Treatment
106	Physical Therapy		

Codes and Regulations

Building Profile

City/ County: Aurora / Arapahoe
Fire District: Aurora Fire Rescue
Construction Classification: II-B
Building Height / Levels: Unknown / 4
Automatic Sprinklers Throughout

Use and Occupancy

Occupant Name: Metro Denver
Occupant Use: General Business Office
Occupancy Classification: Business Group B

Tenant Area

	Total	Existing	Expansion
(approx.) Useable SF:	1,791		
Construction Area:			

City of AURORA

Applicable Codes

2021 IBC (International Building Code) with Amendments
2021 IEBC (International Existing Building Code)
2021 IPC (International Plumbing Code)
2021 IMC (International Mechanical Code)
2021 IFC (International Fire Code)
2021 IECC (International Energy Conservation Code)
2020 NEC (National Electric Code)
2009 ICC/ANSI A117.1 Accessibility Standard

Interpretations

Occupancy Load Analysis

Rooms	Function Per Table 1004.5	Floor Area (USF)	Floor Area (USF/Occ)	Number of Occupants	Reference Only
	Business	1524	÷150 gross	11	
	Business (Concentrated)	0	# of seats		0
	Business (Concentrated)	0	÷50 gross		0
IT Closet 103	Storage (S-1)	25	÷300 gross	1	
Waiting 101	Assembly (A-3)	242	÷15 net	17	
				TOTAL: 29	

Means of Egress

	Total Occupant Load	Required Exit Stair Width	Provided Exit Stair Width	Required Egress Component	Provided Egress Component
Egress	29	5.80" Factor .20	88"	4.35" Factor .15	64"
Egress	29	8.70" Factor .30	88"	5.80" Factor .20	64"

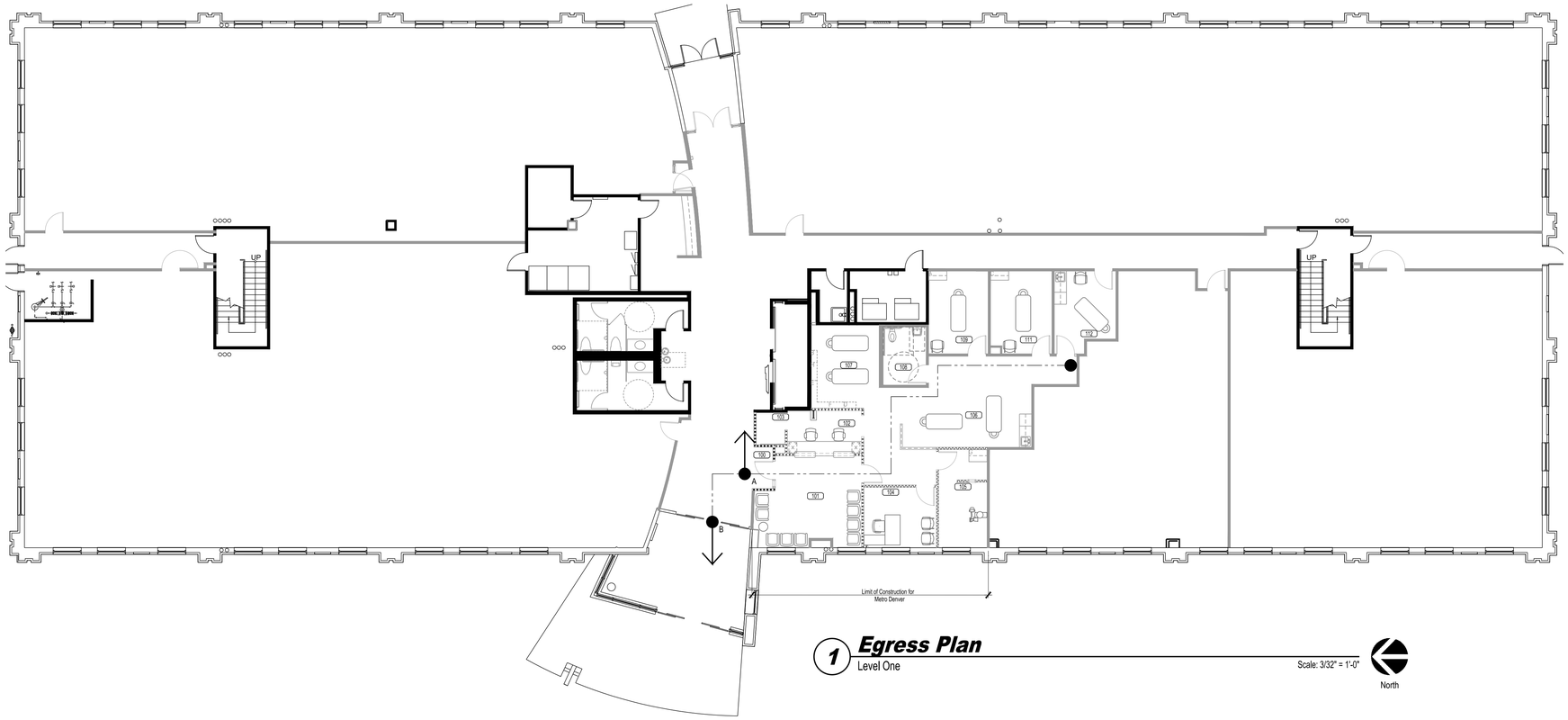
Number of Exits	Required: 1	Provided: 1
Common Path of Egress Travel	max: 100'	72'-5" Point A
Exit Access Travel Distance	max: 300'	85'-4" Point B

Minimum Plumbing Fixtures

Occupancy Type	Total Occupants	Occupants each sex		Water Closets	Lavatories	Drinking Fountains	Service Sinks
Business (B)	11	Male	5.5	0.22	0.14	.11	
		Female	5.5	0.22	0.14		
Assembly (A-3)	17	Male	8.5	0.07	0.04	.03	
		Female	8.5	0.13	0.04		
Storage (S-1)	1	Male	0.5	0.01	0.01		
		Female	0.5	0.01	0.01		
Total Required Fixtures			(M) 14.5 (F) 14.5	(M) 0.30 (F) 0.36	(M) 0.20 (F) 0.19	.14	1
Total Provided Fixtures				(M) 2 (F) 2	(M) 1 (F) 1	2	1
Additional Unisex				1	1		

Note 1 PER IPC #10 WHERE DRINKING FOUNTAINS ARE REQUIRED, WATER COOLERS OR BOTTLED WATER DISPENSER SHALL BE PERMITTED TO BE SUBSTITUTED FOR NOT MORE THAN 50% OF THE REQUIRED DRINKING FOUNTAINS. TENANT TO PROVIDE ADDITIONAL WATER COOLER OR WATER DISPENSER

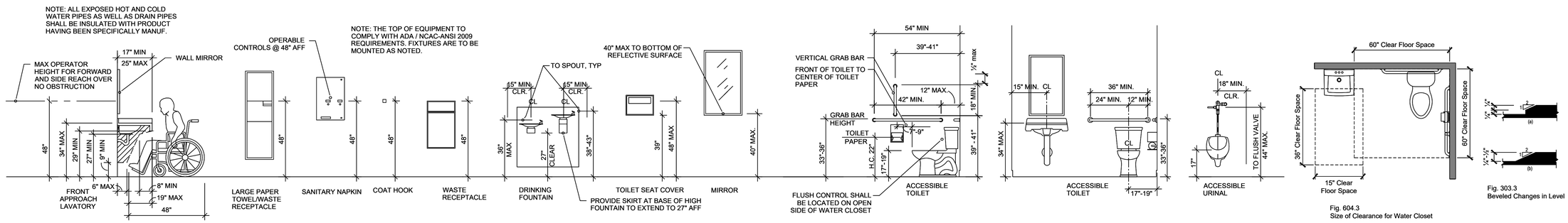
Note 2 PER IPC SECTION 424.2 SUBSTITUTION FOR WATER CLOSETS. IN EACH BATHROOM OR TOILET ROOM, URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50 PERCENT OF THE REQUIRED WATER CLOSETS. (67% IN ASSEMBLY AND EDUCATION OCCUPANCIES)



1 **Egress Plan**
Level One
Scale: 3/32" = 1'-0"
North

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
Date: Oct 09, 2023
2021 INTERNATIONAL CODES & 2023 NEC

Accessible Installation Standards (n.t.s.)



1444 South Potomac • Metro Denver

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

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Sheet Contents: Egress Plan

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428022	GBS	JC	JC	GBS

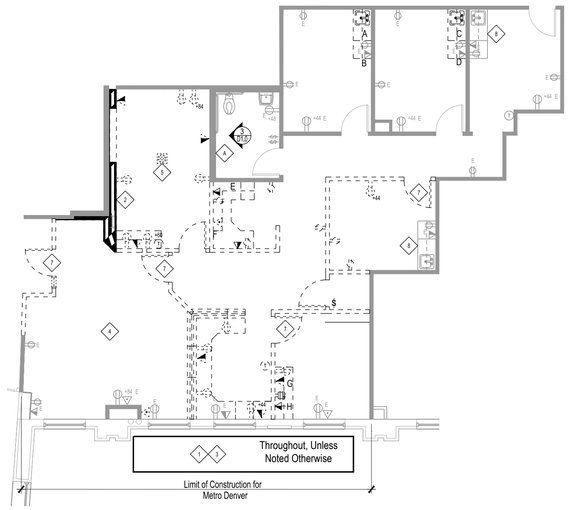
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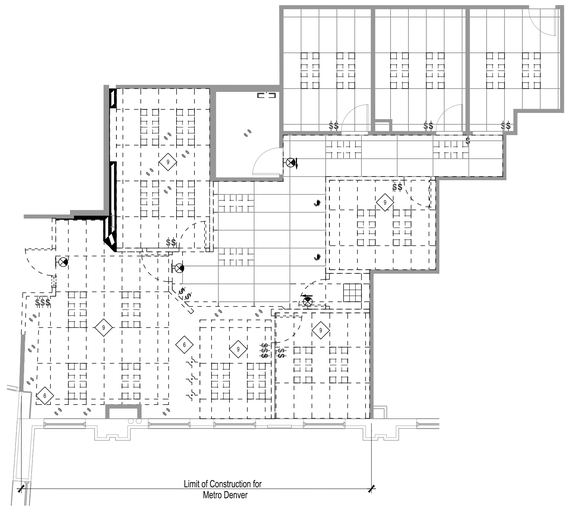
Sheet D1.0 Plan Notes

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 be removed are as follows: carpet, resilient flooring, base trim, wall treatments.
4. **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.
5. **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.
6. **CLEAN AND REPAIR**: Verify condition of all materials scheduled for demolition and re-use where possible. Clean and/or repair materials as needed.
7. **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.
8. **PATCHING**: Remove all unused sleeves through the floor slab and fill/patch all penetrations.
9. **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.
10. **PIPES AND CONDUITS**: All pipes and conduit in partitions scheduled for demolition shall be removed entirely when not scheduled for re-use.
11. **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.
12. **TELEPHONE/DATA REMOVAL**: Unless otherwise indicated on the drawings, remove all existing telephone equipment and/or components not currently in use.



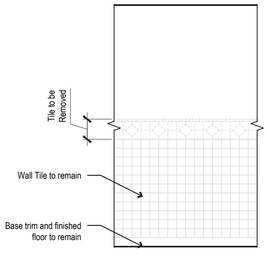
1 Demolition Plan
Suite 170 — Scale: 1/8" = 1'-0"

North



2 Demolition Ceiling Plan
Suite 170 — Scale: 1/8" = 1'-0"

North



3 Elevation: Wall Tile
Restroom108 — Scale: 3/8" = 1'-0"

Sheet Keyed Notes

1. CONTRACTOR shall remove and dispose of all existing floorcoverings in this area and scrape floors smooth from old adhesives and floor patch.
2. Contractor to verify if existing Furring can be demoed, and removed if so. Hold furring as tight to existing column as possible
3. SALVAGE MILLWORK & FIXTURES. Remove existing millwork and plumbing fixtures and set aside for reuse.Refer to Upper cabinet lettering on D1.0 for new location on A1.0.
4. REMOVE CHAIR RAIL Demo existing chair rail, patch and paint as necessary for like new wall conditions.
5. DEMO FLOOR DEVICE. Remove floor mounted power/ communications device from existing core drill. Fill, patch smooth and level and provide fire-safing in core drill as required to maintain floor slab fire rating. Prepare patch to receive the scheduled floorcovering.
6. DEMO GYPSUM BOARD SOFFIT. Remove gyp. board soffits throughout limit of construction. Prep ceiling to recieve new ceiling grid and tile.
7. SALVAGE DOORS. Remove existing doors shown dashed and set aside for re-use.
8. EXISTING MILLWORK & PLUMBING fixtures to remain. Clean and/or repair to 'like new' conditions as possible. The General Contractor shall field verify all existing plumbing fixtures (sink, water heater, etc.) and ensure proper working condition. Provide new fixture(s) only as necessary.
9. REMOVE SUSPENDED CEILING where indicated. Patch, repair and/ or provide new grid and tile to match, align and run continuous with existing.

Sheet Keyed Notes

1. REMOVE WALLTILE as indicated. Skim coat and prepare partition for new finish treatments as indicated. Refer to elevation.

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**

Ceiling Mounted Fixtures/ Devices

- Existing 2×4 light fixture
- Recessed LED downlight fixture
- Recessed wall washer light fixture
- Low voltage pendant light fixture

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

- Building Standard Exit Sign. Green letters on white face. Battery backup. Shade indicated 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
- Duplex electrical receptacle & face plate
- Quadplex electrical receptacle & face plate
- Duplex electrical receptacle & face plate on dedicated circuit
- Existing Junction box with blank face plate
- Combination telephony/ data outlet rough-in (¾"Ø conduit) w/ double gang J-box and single gang plaster ring with pull string to above finished ceiling.
- 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
  'J' = 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.

"E" Existing fixture/ device to remain.

Refer to Engineering Drawings for complete specifications

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25 Sep 2023 (Revised)	Tenant Revisions

Sheet Contents	Demolition Plan Demolition Ceiling Plan

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by John Cisneros layout tab: A1.0

Construction Plan Notes

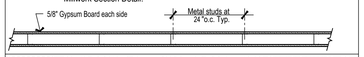
1. **Refer to General Notes** for additional requirements.
2. **DOOR ASSEMBLIES:**
   - 2.1. All assemblies shown on the drawings and not referenced to the Door Schedule are existing to remain (unless noted otherwise).
   - 2.2. Inspect, make repairs to, and clean ALL existing assemblies and components 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

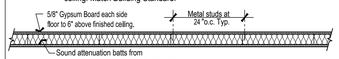
EXISTING PARTITION to remain.

W1 — **NEW PARTIAL HEIGHT PARTITION.** 5/8" gypsum board each side of 20 Gauge, 3½" metal studs at 24" o.c. with wood top at 60" AFF and 1" painted reveal.

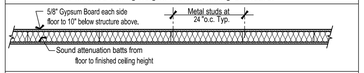
W2 — **NEW PARTIAL HEIGHT PARTITION** (Shown underneath a millwork surface). 5/8" gypsum board each side, 20 Ga. 3½" metal studs at 24" o.c. Refer to Millwork Section Detail.



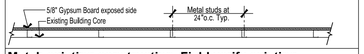
W3 — **NEW SOUND ATTENUATED PARTITION**. Non-rated assembly. 25 gauge, 3-5/8" metal studs at 24" o.c. with 5/8" gypsum board each side to 6" above finished ceiling and 3-5/8" fiberglass sound attenuation batts floor to 6" above ceiling. Match Building Standard.



W4 — **NEW DEMISING AND CORRIDOR PARTITION.** Non-rated assembly. 20 gauge 3-5/8" metal studs at 24" o.c. floor to structure above with 5/8" gypsum board floor to 10" below structure above (for return air transfer) and 3-5/8" fiberglass sound attenuation batts floor to finished ceiling height. Match Building Standard.



Re: #/A# — **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.



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

Door Schedule[1]

Mark	State[2]	DOOR Type	Leaf Size	Material	Finish	FRR[3]	FRAME Material	Finish	FRR[3]	HARDWARE Latch Func.	Additional Components	Remarks	Mark
001	R	FI	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Hm	Painted	None	2	CI	--	001
002	R	Li	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1	CI	--	002
003	R	FI	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1	--	--	003
004	N	FI	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1	--	--	004
005	R	FI	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1	--	--	005
006	E	FI	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1	--	ETR	006
007	E	FI	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	1	--	ETR	007
008	E	FI	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Timely	Prefinished	None	3	--	ETR	008
009	E	FI	3'-0" x 7'-0" x 1 3/4"	S.C.Wood	Stained	None	Hm	Painted	None	2	CI	ETR	009

[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.

Footnotes

[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 PO-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: HM
Interior: Timely
(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

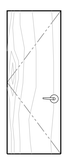
Hardware shall meet Building Standard specifications.

1	Passage
2	Keyed Lockset
3	Privacy

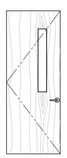
Additional Hardware Components Legend

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

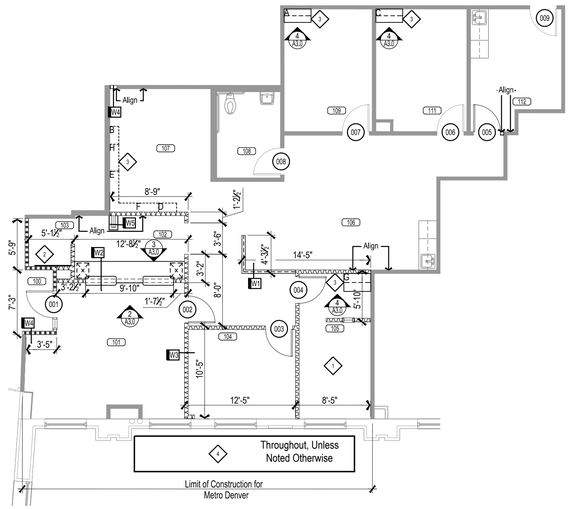
CI	Closer, Automatic Door (1 per leaf)



Type "FI"
Standard Flush Swinging Door



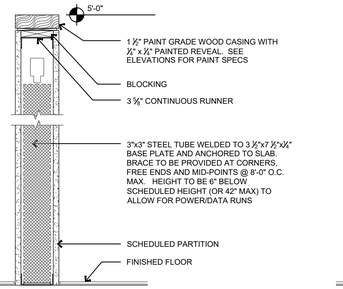
Type "LI"
Swinging Flush Door with Glass Light



1 Construction Plan

Suite 170

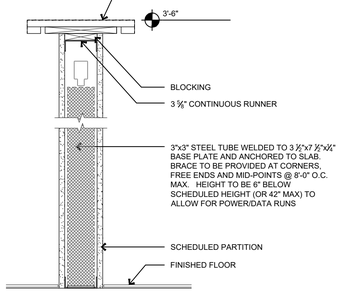
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W1 Partition: Partial Height

Wood Cap

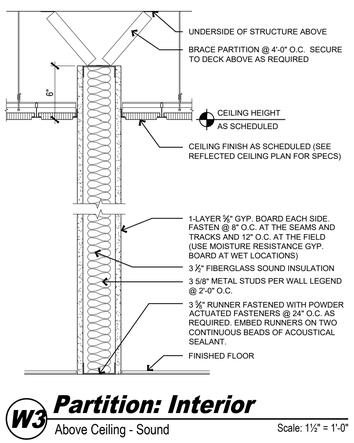
Scale: 1½" = 1'-0"



W2 Partition: Partial Height

Transaction Top

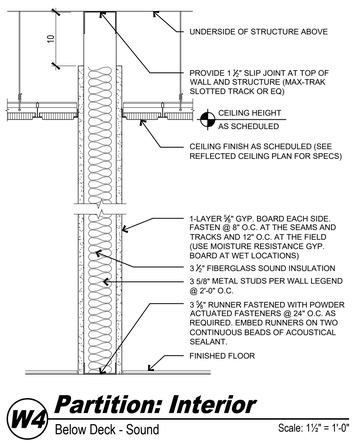
Scale: 1½" = 1'-0"



W3 Partition: Interior

Above Ceiling - Sound

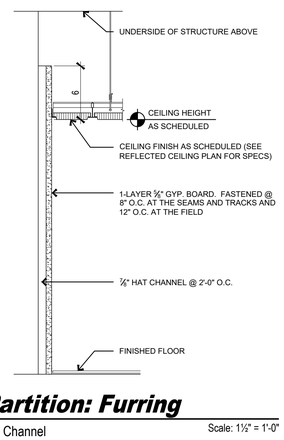
Scale: 1½" = 1'-0"



W4 Partition: Interior

Below Deck - Sound

Scale: 1½" = 1'-0"



W5 Partition: Furring

⅞" Channel

Scale: 1½" = 1'-0"

Room Schedule

100	Public Corridor	107	Physical Therapy
101	Waiting	108	Ext. Restroom
102	Reception	109	Treatment
103	IT	110	-----
104	Office	111	Treatment
105	X-Ray	112	Treatment
106	Physical Therapy		

Sheet Keyed Notes

1. NEW X-RAY ROOM:
   • Provide lead lined drywall at this location for X-Ray room.
   • Viewing Window: provide new "lead lined" glazing assembly for x-ray station. Provide 13"w. x 13"h. x 1"th. clear tempered glass over 12"w. x 12"h. opening in partition. Installed in frame to match door frame assembly.
   • All seams and joints should include overlap to adjacent shielding
   • All penetrations of lead shield (electrical outlets, switches, ducts, etc.) must be shielded by lacing equivalent lead shielding behind the penetrations.
   • Door to extend as close to floor as possible
   Refer to sheet A1.1 for X-ray plans and sections
2. NEW BACKBOARD. Provide 48" × 48" × 3/4" A/D plywood board for telephone equipment. Mount bottom of board at 48" AFF. Paint to match wall.
3. RELOCATED UPPER CABINET MILLWORK. Reworking as necessary due to new configuration. Match existing construction method and materials. Replace any components which cannot be salvaged. Field verify existing conditions for extent of work. Refer to Upper cabinet lettering on D1.0 for new location on A1.0.
4. REPAIR/REPLACE WINDOW SILLS throughout. Clean and/or repair to 'like new' conditions as possible. Match existing construction methods and finishes. Contractor to survey for scope of work.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
Date: Oct 09, 2023
2021 INTERNATIONAL CODES & 2023 NEC

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

1444 South Potomac
1444 South Potomac
Aurora, CO 80012
Suite 170

COLORADO LICENSED JOHN GABRIEL CISNEROS 400450 ARCHITECT
09.28.2023

Metro Denver Accident and Injury

Dates of Record

Project Start Date: 30 Mar 2023

Issued On	Issued For
18 Sep 2023	Tenant Review & Approval; and Construction
⚠1 25 Sep 2023	Tenant Revisions (Revised)

Sheet Contents: Construction Plan, Door Schedule, Partition Details

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428022	GBS	JC	JC	GBS

A1.0

RSN: 1754042
Permit#: 23-2388505-LT

1444 South Potomac • Metro Denver

project start date: 30 Mar 2023
dwg create date: 9/28/2023 11:56:47 AM
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by john.to P:\428_1444 South Potomac\428022_Chiropractor #1700\Drawings\04- CDs\428022c.dwg
by John Cisneros layout tab: A1.1

General Contractor Responsibilities:

- Final electrical connections. Coordinate with X-ray Vendor.

- Lead shielding. Refer to Shielding Drawings.

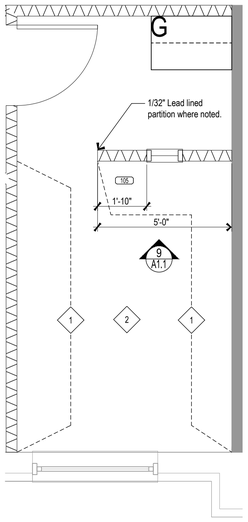
Equipment Vendor to furnish and install x-ray equipment.

Note to General Contractor:
Lead lining details are shown as typical construction. Coordinate with Tenant Planning Services and X-ray Vendor on any discrepancies prior to commencement of construction.

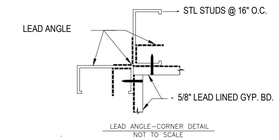
Sheet Keyed Notes

1. PROVIDE 1/16" LEAD SHIELDING IN DRYWALL at location indicated for X-Ray room.
2. NEW X-RAY ROOM:
   - Provide lead lined drywall at this location for X-Ray room.
   - Viewing Window: provide new "lead lined" glazing assembly for x-ray station. Provide 13"w. x 13"h. x 1"th. clear tempered glass over 12"w. x 12"h. opening in partition. Installed in frame to match door frame assembly.
   - All seams and joints should include overlap to adjacent shielding
   - All penetrations of lead shield (electrical outlets, switches, ducts, etc.) must be shielded by lacing equivalent lead shielding behind the penetrations.
   - Door to extend as close to floor as possible

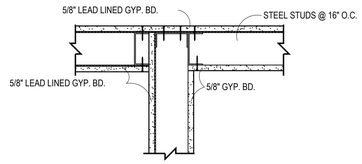
Refer to sheet A1.1 for X-ray plans and sections



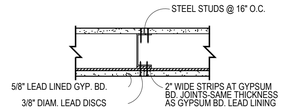
1 Enlarged Floor Plan
Xray 105 — Scale: 3/8" = 1'-0"



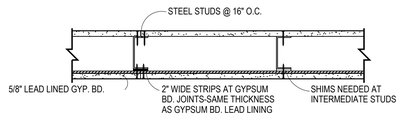
2 X-ray Plan
Scale: 6" = 1'-0"



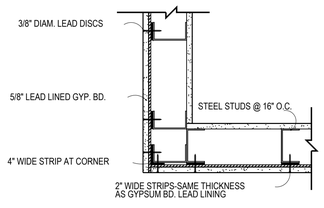
3 Section: Corner Intersection
At X-ray 111 — Scale: 1½" = 1'-0"



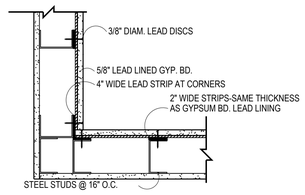
4 Section: Joint Detail
At X-Ray 111 — Scale: 1½" = 1'-0"



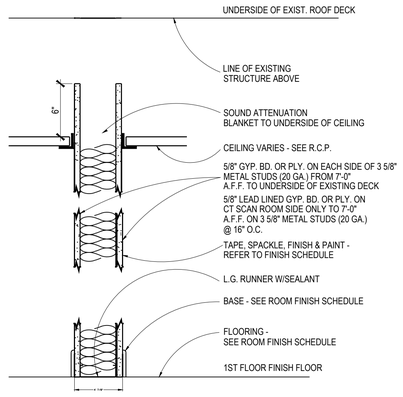
5 Plan Section: Wall Detail
At X-Ray 111 — Scale: 1½" = 1'-0"



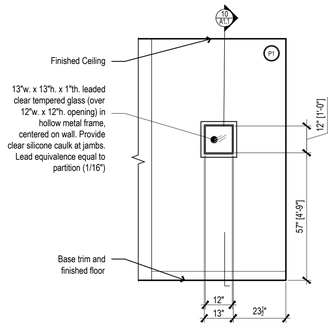
6 Section: Outside Corner
At X-Ray 111 — Scale: 1½" = 1'-0"



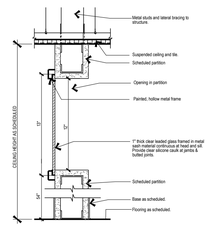
7 Section: Inside Corner
At X-Ray 111 — Scale: 1½" = 1'-0"



8 Section
Lead Lined Partition — Scale: 1½" = 1'-0"



9 Elevation: Millwork
X-Ray 105 — Scale: 3/8" = 1'-0"



11 Glazing Detail
Viewing Window — Scale: 1½" = 1'-0"

TPS
TENANT PLANNING SERVICES INCORPORATED
1660 Lincoln St, Ste. 100
Denver, Colorado 80264
(303) 861-4800
fax (303) 861-1621
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1444 South Potomac
1444 South Potomac
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Metro Denver Accident and Injury

Dates of Record
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Approved as Noted: jlocke
Date: Oct 09, 2023
2021 INTERNATIONAL CODES & 2023 NEC

Sheet Contents: X-Ray Details

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428022	GBS	JC	JC	GBS

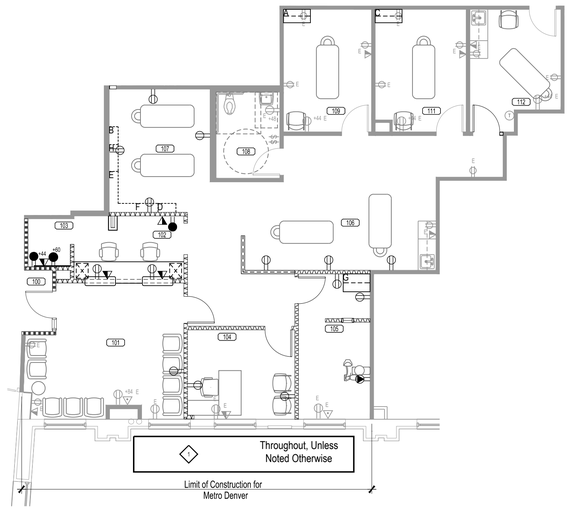
A1.1

RSN: 1754042
Permit#: 23-2388505-LT

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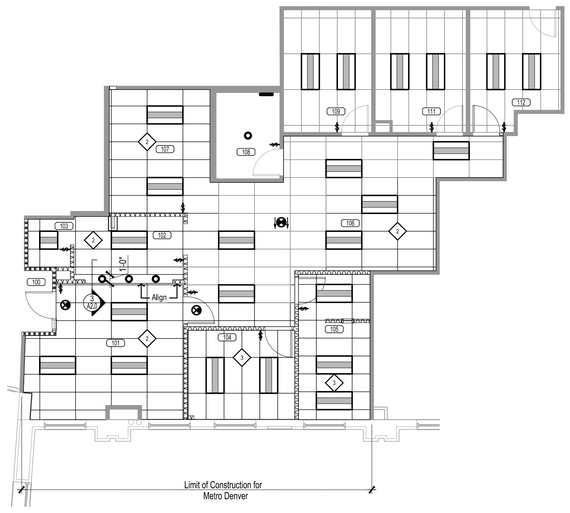
Sheet A2.0 Plan Notes

1. **Refer to General Notes** for additional requirements.
2. **PROVIDE NEW SUSPENDED CEILING SYSTEM** throughout as follows:
   - 2.1. Suspended grid system shall match building standard.
   - 2.2. Ceiling tile shall match building standard.
   - 2.3. Installation of grid system shall be in complete accordance with the manufacturer's specifications utilizing the layout as indicated on the drawings.
   - 2.4. 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."
   - 2.5. Installation of tiles shall be individually cut-in at rooms or areas. Refer to drawings for specific requirements.
   - 2.6. All tiles shall be seated tight, level and true within the grid system.
   - 2.7. The suspended ceiling system shall conform to requirements set forth by U.L.
3. **CEILING HEIGHT**: 9'-0" AFF (UNO). Refer to construction details for ceiling construction and interface with partitions.
4. **FIXTURES AND DEVICES**: Provide and/or relocate light fixtures, switches, and controls indicated on the drawings.
   - 4.1. Refer to Symbols Legend for fixture type and/or specification.
   - 4.2. Install and support fixtures from the structure in accordance with the code.
   - 4.3. 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.
   - 4.4. 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.
   - 4.5. 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.
   - 4.6. 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
5. **LIGHTING DIMENSIONS:** Unless noted otherwise, all light fixtures and devices are dimensioned to the centerline of the fixture.
6. **EXISTING FIRE SPRINKLER HEADS** mounted in the ceilling 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.
7. **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.
8. **PROVIDE ELECTRICAL POWER AND COMMUNICATIONS OUTLETS**, receptacles and devices indicated on the drawings.
   - 8.1. Refer to symbols legend for device type and/or specification.
   - 8.2. Install in locations as shown on the drawings.
   - 8.3. 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).
   - 8.4. Unless noted otherwise, all electrical power and communications outlets, receptacles and devices are dimensioned to the centerline of the device or pair of devices.
   - 8.5. Confirm *all* box locations with Tenant prior to wiring.
   - 8.6. 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.
   - 8.7. 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).
   - 8.8. Outlets shall not be installed back to back in sound insulated partition.
   - 8.9. 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.
   - 8.10. 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
9. **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: White
10. **COMMUNICATION/ DATA OUTLETS** shall conform to the following:
    - 10.1. 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.
    - 10.2. 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.
    - 10.3. 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.
    - 10.4. 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.



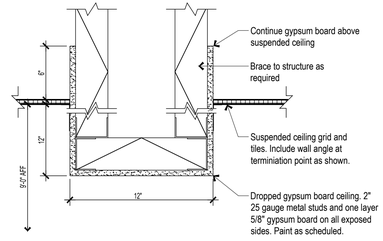
1 Power & Communications Plan
Suite 170 — Scale: 1/8" = 1'-0"

North



2 Reflected Ceiling Plan
Suite 170 — Scale: 1/8" = 1'-0"

North



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

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
Date: Oct 09, 2023
2021 INTERNATIONAL CODES & 2023 NEC

Room Schedule

100	Public Corridor	107	Physical Therapy
101	Waiting	108	Ext. Restroom
102	Reception	109	Treatment
103	IT	110	-----
104	Office	111	Treatment
105	X-Ray	112	Treatment
106	Physical Therapy		

Sheet Keyed Notes

1. REPLACE all existing electrical devices, switches and coverplates to WHITE.
2. NEW SUSPENDED CEILING to match existing. Provide grid and acoustical tile system throughout Limit of Construction (UNO). Match existing specifications and install to align and run continuous with existing ceiling system.
3. NEW SUSPENDED CEILING. Provide grid and acoustical tile system where indicated. Match common ceiling height. Center system in room as shown.

Symbol Legend

Ceiling Mounted Fixtures/ Devices

- Building Standard 2×4 LED light fixture
- Building Standard 2×2 LED light fixture
- Recessed LED downlight fixture
- LED Vanity Light

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

- Building Standard Exit Sign. Green letters on white face. Battery backup. Shade indicated 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
- Duplex electrical receptacle & face plate
- Quadplex electrical receptacle & face plate
- Duplex electrical receptacle & face plate on dedicated circuit
- Special receptacle, 208V3Ph
- Existing Junction box with blank face plate
- Combination telephony/ data outlet rough-in (¾"Ø conduit) w/ double gang J-box and single gang plaster ring with pull string to above finished ceiling.

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

"E" Existing fixture/ device to remain.

Refer to Engineering Drawings for complete specifications

TPS
TENANT PLANNING SERVICES
INCORPORATED
1660 Lincoln St, Ste. 100
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1444 South Potomac
1444 South Potomac
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Sheet Contents	Power & Communications Plan Reflected Ceiling Plan

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A2.0

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by: john to P-H28, 1444 South Potomac\428022_Chiropractor #1700\Drawings\04- CDs\428022c.dwg
by: John Cisneros layout tab: A2.0

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by john to P-428_1444 South Potomac\428022_Chiropractor #1700\Drawings\04- CDs\428022c.dwg
by John Cisneros layout tab: A3.0

Finish Plan Notes

1. **Refer to General Notes** for additional requirements.
1. The General Contractor shall provide RH MOISTURE TESTING for any concrete locations less than one year old and for all slab on grade locations (regardless of age)
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. All Surfaces must be clean, dull, and dry before coatings are applied.
   - 4.2. All product is assumed to be NEW, unless noted otherwise.
   - 4.3. Coordination: finish treatment subcontractors and installers shall coordinate with other trades for applications affecting other tradework, especially millwork, etc.
   - 4.4. Unless noted otherwise, all floor coverings, baseboard, and floor preparation shall be the responsibility of the General Contractor, including removal of existing materials.
   - 4.5. Installation: all finish treatments shall be installed or applied in strict accordance with the manufacturer's written specifications and the drawings.
   - 4.6. Protection: protect all surfaces, doors, hardware, outlet plates, etc. From spills, splatters and overspray of paint, drywall compound, adhesive and other materials.
   - 4.7. 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.
   - 4.8. 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.
   - 4.9. Surface texture: unless noted otherwise, all drywall finish shall be smooth.
5. **CARPET INSTALLATION**: carpet installation shall comply with the workmanship guidelines as published by the American Carpet Institute (latest edition), 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. **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. General Contractor is responsible to verify all specified finishes match existing at prior to order/ installation.

Architectural Casework Specifications

Construction: AWS 2nd Edition - Custom Grade

- 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 as noted below under Edging category. 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" edge as noted under Edging catergory. 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:

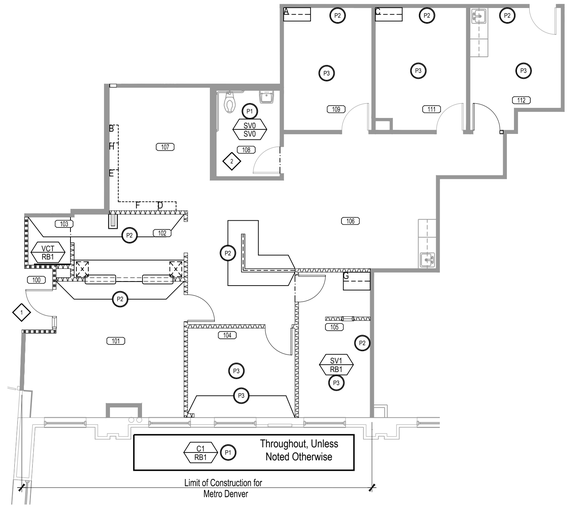
- Plastic Laminate: Shall be used on all door and drawer faces. All laminate shall meet all NEMA standards. Colors to be selected from full range of colored laminates by Wilsonart, Formica or Nevamar. Refer to Finish Schedule.
- Counter Tops: Counter tops shall be horizontal grade high pressure laminate 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
  - Doors and Drawers : .018mm PVC
  - Counter Top: 3mm PVC

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.

Finish Treatment Schedule

Material	Manufacturer	Style/ Line	Color	Mark	Class	Remarks/Comments
Wallcovering						
Primer	Sherwin-Williams	ProMar 200	White	Not Shown	A	Primer for all new exposed gypsum board surfaces.
Interior Paint	Sherwin-Williams	ProMar 200 Zero VOC- Eg-Shel	Greek Villa 7551	P1	A	Provide two (2) coats (minimum) at all new surfaces. • P1: Paint all exposed gypsum board surfaces throughout Limit of Construction (UNO). • P2: Accent paints where indicated. • P3: Field paint for rooms where indicated.
Interior Paint	Sherwin-Williams	ProMar 200 Zero VOC- Eg-Shel	Distance 6243	P2	A	
Interior Paint	Sherwin-Williams	ProMar 200 Zero VOC- Eg-Shel	Wordly Gray 7043	P3	A	
Door Frame	Sherwin-Williams	Direct-to-Metal Semi-Gloss	Greek Villa 7551	P1	A	To be used on existing prefinished metals (ex. Timely frames)
Ceiling Paint	Sherwin-Williams	ProMar 200 Zero VOC- Flat	Greek Villa 7551	P1	A	Ceiling in Restroom
Millwork						
Plastic Laminate	Wilsonart	Matte 60	Beige Pampas 4170	PL1	A	Countertops, UNO.
Plastic Laminate	Wilsonart	Fine Velvet Finish 38	Huntington Maple 7929	PL2	A	Vertical Surfaces, UNO. Plastic laminate pattern shall run vertically on all surfaces, UNO. Confirm with Tenant Planning Services.
Solid Surface	Corian		Silver Birch	SS1	A	At Reception transaction top
Floorcovering						
Carpet Tile	EF Contract	Signet	Navy Blue	C1	A	Include Futura (or eq.) transition square trim Pattern: Monolithic
Vinyl Composition Tile	Tarkett	VCT II	Stone Grey 602	VCT1	A	Pattern: Monolith
Sheet Vinyl	Existing to Remain			SVE	A	Flooring in the restroom to remain
Sheet Vinyl	Tarkett	Accent Stone Concrete	Dark Grey 251 268501	SV1	A	All seams to be heat welded. Provide 4"-6" flash cove base with cove former at corner, and vinyl cap strip at top edge of base, UNO
Base Trim						
Rubber Base	Tarkett	Johnsonite	Navy Blue 18	RB1	A	Only coiled base trim approved. Coved at hard surfaces.



1 Finish Treatment Plan

Suite 170 — Scale: 1/8" = 1'-0"

North

Room Schedule

100	Public Corridor	107	Physical Therapy
101	Waiting	108	Ext. Restroom
102	Reception	109	Treatment
103	IT	110	-----
104	Office	111	Treatment
105	X-Ray	112	Treatment
106	Physical Therapy		

Sheet Keyed Notes

1. REWORK PUBLIC AREA FINISH TREATMENTS. Repair, replace and/or provide new finish treatments to match existing at this public area as necessary due to remodel work. Coordinate specifications with Building Management.
2. In area indicated, EXISTING FINISH TREATMENTS, including floorcovering, base trim, wallcoverings, to remain. Patch, repair, and/or replace only as necessary due to remodel work.

2 Elevation: Millwork

Reception 101 — Scale: 3/8" = 1'-0"

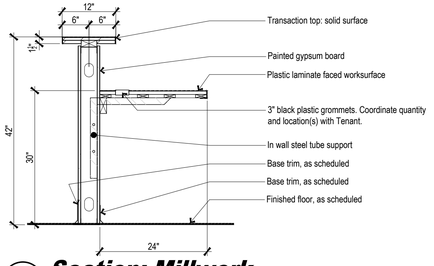
3 Elevation: Millwork

Reception 101 — Scale: 3/8" = 1'-0"

4 Elevation: Millwork

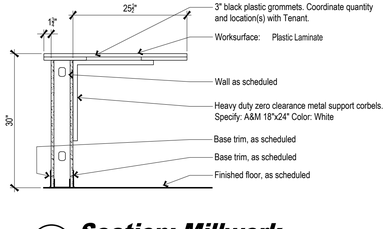
Treatment 109-12 — Scale: 3/8" = 1'-0"

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



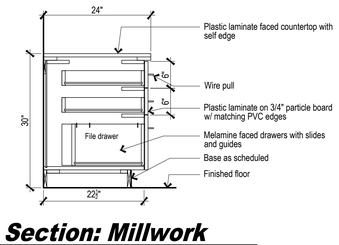
5 Section: Millwork

Reception Desk — Scale: 3/4" = 1'-0"



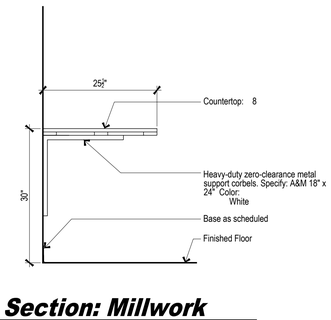
6 Section: Millwork

Work Surface — Scale: 3/4" = 1'-0"



7 Section: Millwork

Box Box File — Scale: 3/4" = 1'-0"



8 Section: Millwork

Work Surface — Scale: 3/4" = 1'-0"

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

1444 South Potomac
1444 South Potomac
Aurora, CO 80012
Suite 170

COLORADO LICENSED
JOHN GABRIEL CISNEROS
400450
ARCHITECT
09.28.2023

Metro Denver Accident and Injury

Dates of Record

Project Start Date: 30 Mar 2023

Issued On	Issued For
18 Sep 2023	Tenant Review & Approval; and Construction
⚠ 25 Sep 2023	Tenant Revisions (Revised)

Sheet Contents	
	Finish Treatment Plan
	Finish Schedule
	Elevations
	Details

Project #	Proj Mgr	Designed by	Drafted by	Checked by
428022	GBS	JC	JC	GBS

A3.0

RSN: 1754042
Permit#: 23-2388505-LT

1444 South Potomac • Metro Denver

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.
FURNISH SHEETMETAL FROM SUGGESTED VENDORS:
C.H.I. MANUFACTURING, INC.
REEVES SPECIALTY SERVICES, INC.

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.

OUTSIDE AIR COMPLIANCE

DESCRIPTION	ROOM #	AREA SF	PEOPLE/1000SF	POPULATION	CFM/PERSON	AREA AIRFLOW RATE	Ez	REQUIRED OUTSIDE AIR CFM	SUPPLY AIR	% OUTSIDE AIR	OUTSIDE AIR PROVIDED	EXHAUST AIRFLOW RATE	EXHAUST REQUIRED	EXHAUST PROVIDED	REMARKS
WAITING	101	243	30	8	5.0	0.06	0.8	68	400	20%	80	0.00	0	0	
RECEPTION	102	87	5	1	5.0	0.06	0.8	13	65	20%	13	0.00	0	0	
OFFICE	104	120	5	1	5.0	0.06	0.8	15	175	20%	35	0.00	0	0	
X-RAY	105	129	5	1	5.0	0.06	0.8	16	200	20%	40	0.00	0	0	
PHYSICAL THERAPY	106	168	10	2	20.0	0.06	0.8	63	315	20%	63	0.00	0	0	
PHYSICAL THERAPY	107	147	10	2	20.0	0.06	0.8	61	305	20%	61	0.00	0	0	
EXT. RESTROOM	108	69	0	0	0.0	0.00	0.8	0	0	0%	0	0.00	70	75	
TREATMENT	109	135	5	1	5.0	0.06	0.8	16	85	20%	17	0.00	0	0	
TREATMENT	111	137	5	1	5.0	0.06	0.8	17	85	20%	17	0.00	0	0	
TREATMENT	112	127	5	1	5.0	0.06	0.8	16	85	20%	17	0.00	0	0	
TENANT HALLWAY	-	301	0	0	0.0	0.06	0.8	23	120	20%	24	0.00	0	0	
TOTALS		1663		18				307	1835		367		70	75	

TRANSFER FAN SCHEDULE

MARK	AREA SERVED	SERVICE	LOCATION	CFM	S.P. @ ALTITUDE (IN W.C.)	RPM	HP OR WATTS	PRE-FAB CURB	BACKDRAFT DAMPER	TYPE	VIB. ISOL.	MFR. & MODEL NO.	VOLTS/ PHASE	REMARKS
TF-1	IT ROOM	TRANSFER	CEILING	75	0.25	773	10 W	NO	YES	CENTRIFUGAL	NO	GREENHECK SP-LP0511-1	120/1	1, 2

1. PROVIDE REVERSE ACTING THERMOSTAT.
2. NEW.

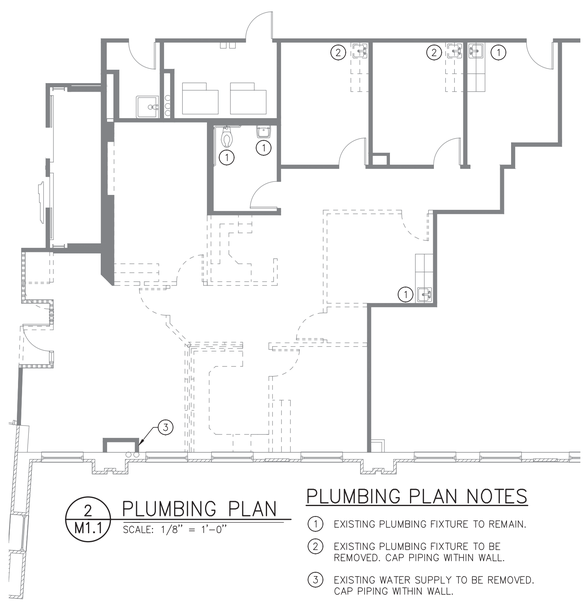
FAN TERMINAL UNIT SCHEDULE

MARK	MFR. & MODEL NUMBER	AIR INLET SIZE	PRIMARY AIR		HEATING			FAN MOTOR			MCA	MAX FUSE	REMARKS
			MAX. CFM	MIN. CFM	VOLTAGE	KW	HEATING CFM	VOLTAGE	HP	FLA			
FTU-1	ENVIRO-TEC VFREH 1006	10"Ø	775	230	277/1	6.0	775	277/1	1/6HP	1	28.33	30	1
FTU-2	ENVIRO-TEC VFR 0804	8"Ø	590	170	N/A	0.0	N/A	277/1	1/12HP	0.5	0.63	15	1

NOTES:
1. EXISTING TO REMAIN.

DIFFUSER SCHEDULE

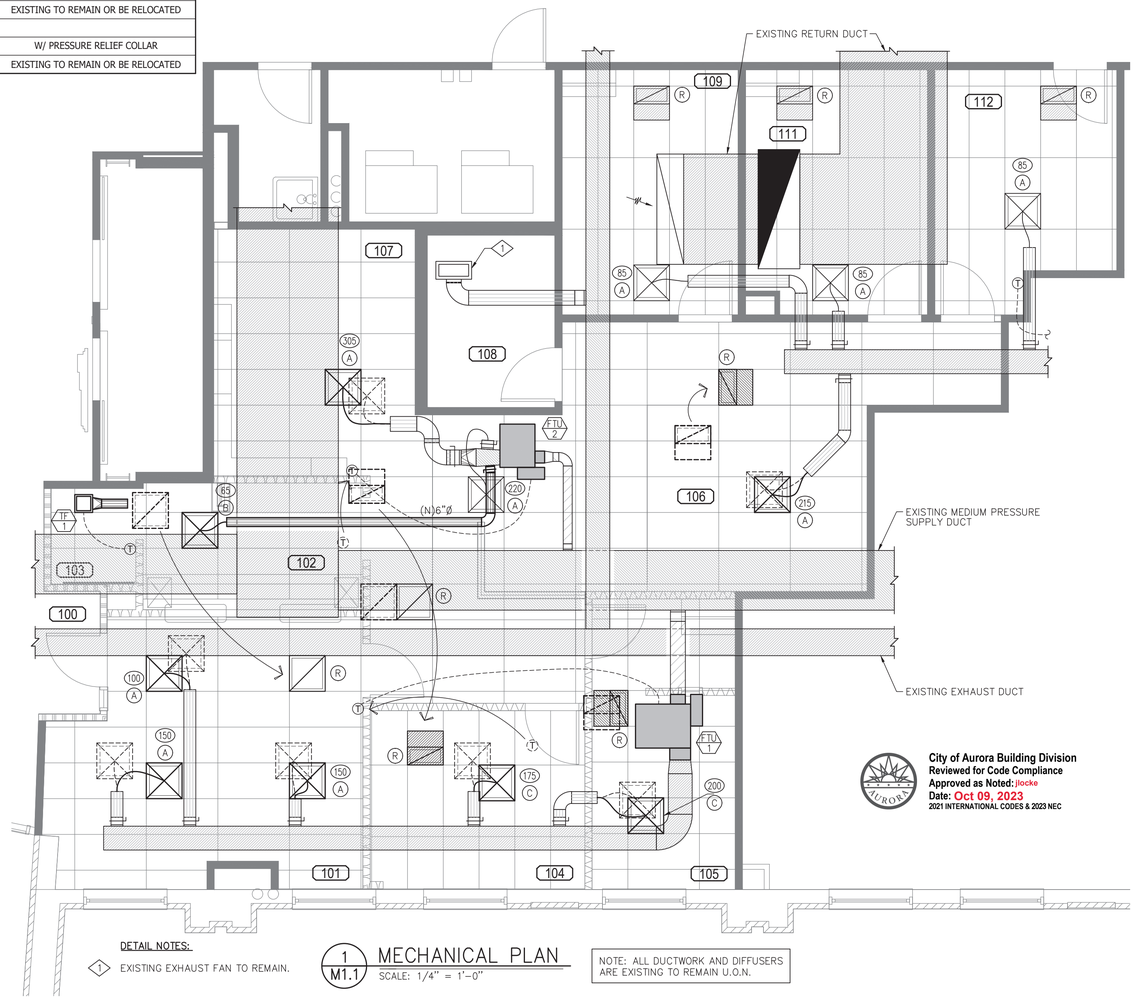
MARK	SERVICE	FACE SIZE	NECK SIZE	FIRE DAMPER	VOLUME DAMPER	MFR	MODEL	REMARKS
A	SUPPLY	-	-	-	-	-	-	EXISTING TO REMAIN OR BE RELOCATED
B	SUPPLY	24" x 24"	6"Ø	NO	NO	PRICE	SCD	
C	SUPPLY	24" x 24"	8"Ø	NO	NO	PRICE	VPD-HC	W/ PRESSURE RELIEF COLLAR
R	RETURN	-	-	-	-	-	-	EXISTING TO REMAIN OR BE RELOCATED



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

PLUMBING PLAN NOTES

1. EXISTING PLUMBING FIXTURE TO REMAIN.
2. EXISTING PLUMBING FIXTURE TO BE REMOVED. CAP PIPING WITHIN WALL.
3. EXISTING WATER SUPPLY TO BE REMOVED. CAP PIPING WITHIN WALL.



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

NOTE: ALL DUCTWORK AND DIFFUSERS ARE EXISTING TO REMAIN U.O.N.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: jlocke
Date: Oct 09, 2023
2021 INTERNATIONAL CODES & 2023 NEC

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

BRIAN SEYFERTH & ASSOCIATES, INC.
PROFESSIONAL ENGINEER

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

1444 South Potomac
1444 South Potomac
Aurora, CO 80012
Suite 170

COLORADO LICENSED BRET MARIN 63002 PROFESSIONAL ENGINEER

Digitally signed by Bret Marin
Date: 2023.09.26 15:55:39 -06'00'

Metro Denver Accident and Injury

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

Issued On	Issued For
26 Sept 2023	Tenant's Review & Approval; and Construction

Sheet Contents	MECHANICAL PLAN
Project Team	BM/LC
Project Number	23313
Sheet Mark	**M1.1**

RSN: 1754042
Permit#: 23-2388505-LT

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

ELECTRICAL GENERAL NOTES - APPLICABLE TO ALL ELECTRICAL SHEETS

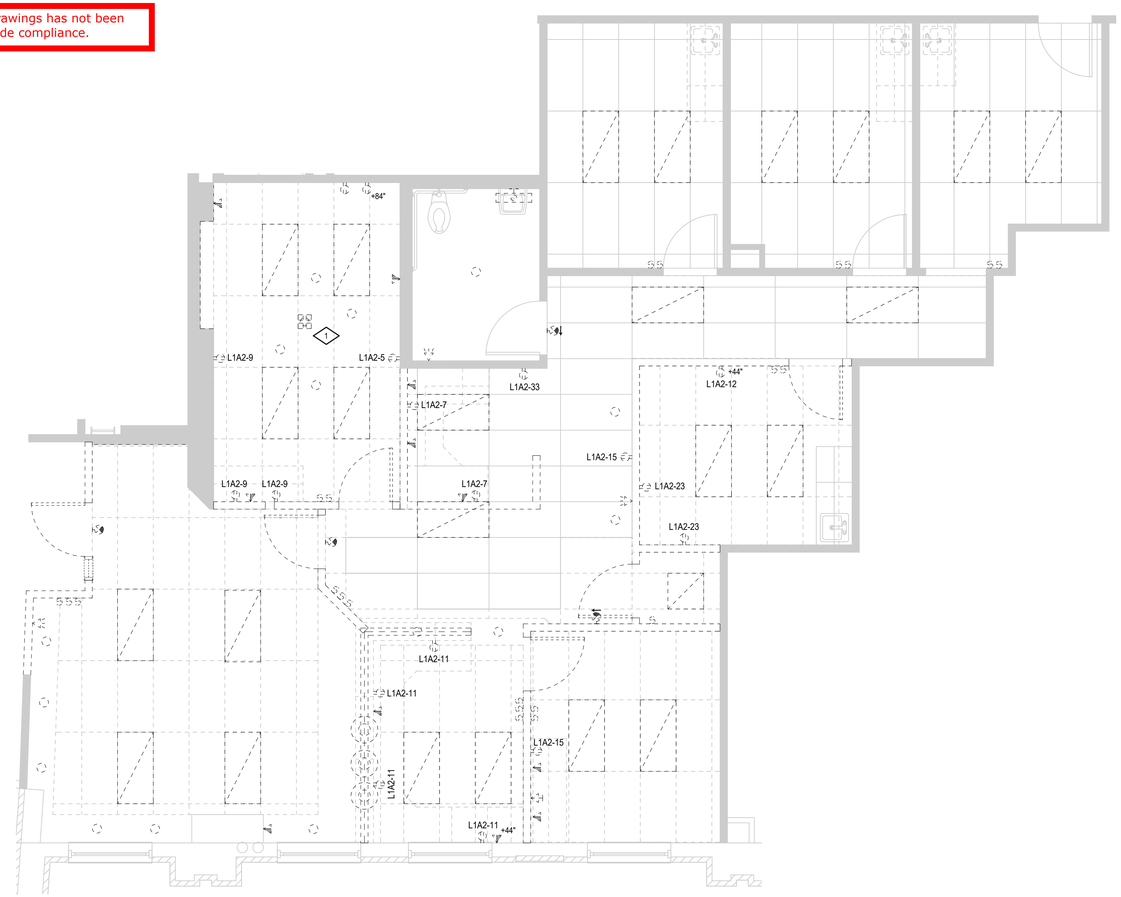
1. PRIOR TO SUBMITTING BIDS THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING ELECTRICAL EQUIPMENT CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. FIELD VERIFY QUANTITIES OF EXISTING LIGHT FIXTURES, ELECTRICAL DEVICES, COMMUNICATION DEVICES, FIRE ALARM DEVICES, AND 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 SHOP DRAWINGS, BROCHURES, INSTALLATION INSTRUCTIONS, AND DESCRIPTIVE LITERATURE RELATIVE TO SPECIFIED EQUIPMENT, WIRING DEVICES, AND ACCESSORIES FOR APPROVAL. ELECTRONIC SUBMITTALS (PDF OR SIMILAR) ARE ACCEPTABLE. 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, INCLUDING EQUIPMENT DOORS, PER THE NEC.
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 ACCOMODATE 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.
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. "MID-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 MOUNTED DEVICES SHALL HAVE ALL NECESSARY CONTROL WIRING OF ANY TYPE SUCH AS DATA/TELECOMMUNICATIONS WIRING, FIRE ALARM WIRING, HVAC CONTROL WIRING, SECURITY SYSTEMS WIRING, TV CABLING, OPTICAL FIBER CABLING, LIGHTING CONTROLS 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 INSTALLED SO THAT THE OPENINGS ARE NOT DISTURBED 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. CABLING IN RETURN AIR DUCTS, PLENUMS, AND OTHER AIR-HANDLING SPACES ARE REQUIRED TO BE LISTED 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 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 IS 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.
49. ELECTRICAL CABINETS, DISCONNECTS AND ENCLOSURES LOCATED IN PUBLIC AREAS (ACCESSIBLE TO UN-QUALIFIED PERSONNEL) SHALL BE LOCKABLE TYPE.
50. PENETRATIONS THROUGH STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT SPECIFIC WRITTEN PERMISSION FROM STRUCTURAL ENGINEER AND ARCHITECT. SUBMIT DRAWINGS 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, FROM HEAVE/SETTLING, 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. WHERE PVC IS USED THE ENTIRE RUN 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 ACCOMODATE 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.
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 NOTED OTHERWISE. PROVIDE UN-PROTECTED LINE-SIDE TERMINALS WITH BARRIERS PER NEC.
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.
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 AND/

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



N

DEMOLITION PLAN

SCALE: 1/4"=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. PATCH FLOOR AFTER REMOVAL OF POKE-THRU TO MAINTAIN FIRE RATING.



N

KEY PLAN

RSN: *1754042*
Permit #: *23-2388505-LT*

COREY
Electrical Engineering, Inc.
Commercial and Transportation Design
3825 S Wadsworth Blvd. Suite B, Englewood, CO 80110 | P: (303) 904-1507 | projects@coreyeng.com

NEC: 2023
IEC: 2021

1444 South Potomac
1444 South Potomac
Aurora, CO 80012
Suite 170

COLORADO LICENSED
STEVEN L STRICH
PROFESSIONAL ENGINEER
09/26/23
32200
CEE#23116

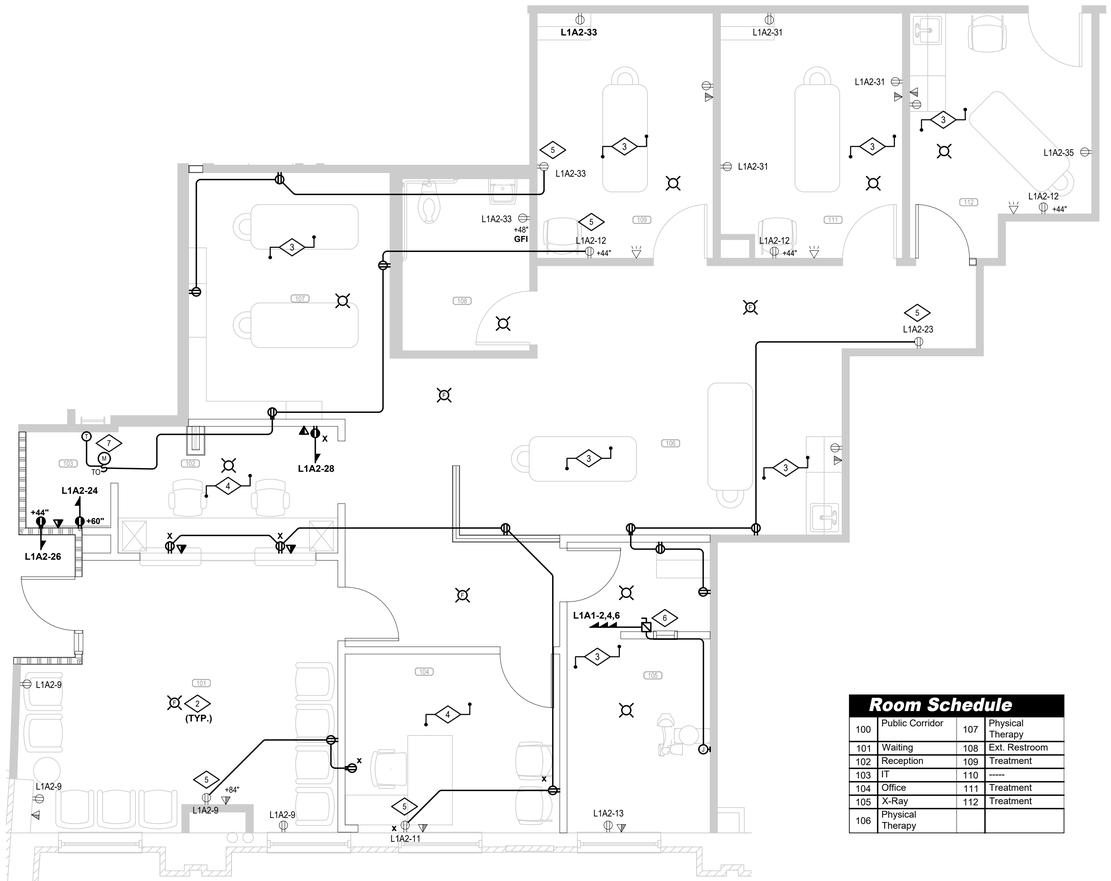
Metro Denver Accident and Injury

Dates of Record
Project Start Date: 30 Mar 2023

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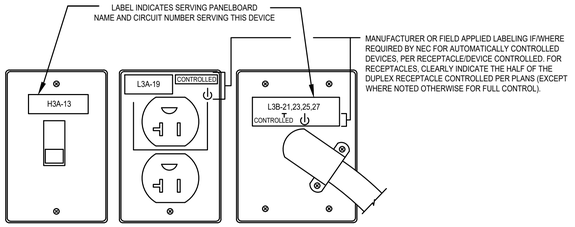
Sheet Contents	DEMOLITION PLAN
Project Team	RR/AW
Project Number	23116
Sheet Mark	**E1.0**

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Room Schedule			
100	Public Corridor	107	Physical Therapy
101	Waiting	108	Ext. Restroom
102	Reception	109	Treatment
103	IT	110	-----
104	Office	111	Treatment
105	X-Ray	112	Treatment
106	Physical Therapy		

Every circuit and circuit modification shall be provided with a legible and permanent description that complies with all of the following conditions as applicable (see 1-6). 2023 NEC 408.4



TYPICAL DEVICE LABELING DETAIL

SCALE: NONE

GENERAL NOTES:

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

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 FLOOR BOX PER CODE BELOW, OR EQUAL. COORDINATE FACEPLATE CONFIGURATION WITH VENDOR, AND FACEPLATE FINISH MATERIAL WITH ARCHITECT. E.C. SHALL PROVIDE X-RAYING OF FLOOR PRIOR TO SAW-CUTTING AND TRENCHING. SAWCUT INTO FLOOR. PROVIDE COMM CONDUIT SAWCUT FROM BOX UP NEAREST WALL TO ACCESSIBLE CEILING WITH PULL STRING AND BUSHINGS FOR DATA, AND A/V CONDUITS WHERE APPLICABLE, SEPARATE FROM DATA. BOX TO BE INSTALLED FLUSH WITH EXISTING FLOOR. COMPACT AND BACKFILL AT 8" LEVELS WHEN REPAIRING.
- 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 FEEDS 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. IN SLAB ON GRADE, RECEPTACLES SHALL BE READILY ACCESSIBLE GFCI OR PROVIDE GFCI BREAKER.

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	SEE DETAIL NOTES		
D	2 CIRCUIT 6 WIRE	4	1-1/4" C	T	EVOLUTION EFBFF + EFBFF-DIV (3/4" PWR, 2" COMM) (FURNITURE FEED BOX, LARGE DATA)		
E	2 CIRCUIT 4 WIRE	5	1-1/2" C	U	HUBBELL S1PFB + S1CFCAL + S1SP3IM (3/4" PWR, 1" COMM) (SIMPLEX/NO SWITCHING/LARGER DATA FACEPLATE)		
F	1 CIRCUIT 3 WIRE	6	2" C	V	HUBBELL S1PFB + S1CFCAL + S1SP (3/4" PWR, 1" COMM) (DUPLEX + DATA OR 2ND DUPLEX IF NO COMM)		
G	SEE DETAIL NOTES	7	NONE	W	HUBBELL S1PFB + S1SPFFBL (3/4" PWR, 1" COMM) (FURNITURE FEED BOX)		

N

POWER PLAN

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

GENERAL NOTES:

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

B. FOR AREAS WITH RECEPTACLES REQUIRING GFCI: GFCI BREAKERS TO MATCH THE PANEL MANUFACTURER AND AIC RATING (UNLESS NOTED FOR DEADFRONT GFI), SHALL BE UTILIZED ON EQUIPMENT WHERE GFCI RECEPTACLES ARE NOT READILY ACCESSIBLE, INCLUDING UNDER COUNTER AND BEHIND ANY APPLIANCES. ALSO, FOR ANY CONTROLLED OUTLETS, WHERE INDICATED, PER 2021 IECC. GFI RECEPTACLES (OR BREAKERS WHERE NOT READILY ACCESSIBLE) REQUIRED FOR ON-GRADE FLOORBOXES PER CODE.. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL THESE CIRCUITS. FOR EXISTING RECEPTACLES ALSO PROVIDE A GFCI BREAKER WHERE NOT READILY ACCESSIBLE. E.C. TO VERIFY CIRCUITS/ACCESSIBILITY FOR WHERE NEW BREAKERS ARE REQUIRED, AND NOT SHOWN IN SCHEDULES. FOR ANY PANELS WITH AIC VALUE EXCEEDING ITS RATING, PROVIDE A DEADFRONT GFCI INSTEAD OF A BREAKER (10K SCCR RATING, READILY ACCESSIBLE AND GREATER THAN 7' CONDUCTOR LENGTH FROM PANEL ASSUMING WORST CASE 20A/1PH FAULT DISTANCE).

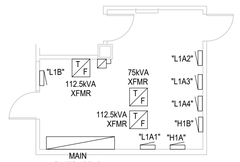
C. E.C. TO PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL OFFICES, WAITING ROOMS, OUTPATIENT FACILITIES, AND CORRIDORS THROUGHOUT PER NEC 406.12.

DETAIL NOTES

1. 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.
2. NEW/RELOCATED FIRE ALARM DEVICE, SEE FIRE ALARM GENERAL NOTES.
3. PROVIDE HOSPITAL-GRADE RECEPTACLES FOR ALL DEVICES IN THIS ROOM. ALL BRANCH CIRCUITS (INCLUDING LIGHTING) IN THIS AREA SHALL BE RUN ENTIRELY IN EMT CONDUIT IN ORDER TO UTILIZE CONDUIT AS REDUNDANT GROUND PER CODE REQUIREMENTS OR PROVIDE GREEN HOSPITAL-GRADE AC/MC CABLE FOR REDUNDANT GROUND. PROVIDE EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT. PROVIDE GFCI DEVICES THROUGHOUT. GFCI BREAKERS TO MATCH THE PANEL MANUFACTURER AND AIC RATING (UNLESS NOTED FOR DEADFRONT GFI), SHALL BE UTILIZED ON EQUIPMENT WHERE GFCI RECEPTACLES ARE NOT READILY ACCESSIBLE, INCLUDING UNDER COUNTER AND BEHIND ANY APPLIANCES. REQUIRED FOR FLOORBOXES PER CODE. PROVIDE DEDICATED NEUTRAL WIRE FOR ALL THESE CIRCUITS. FOR EXISTING RECEPTACLES ALSO PROVIDE A GFCI BREAKER WHERE NOT READILY ACCESSIBLE. E.C. TO VERIFY CIRCUITS/ACCESSIBILITY FOR WHERE NEW BREAKERS ARE REQUIRED, AND NOT SHOWN IN SCHEDULES. FOR ANY PANELS WITH AIC VALUE EXCEEDING ITS RATING, PROVIDE A DEADFRONT GFI INSTEAD OF A BREAKER (10K SCCR RATING, READILY ACCESSIBLE AND GREATER THAN 7' CONDUCTOR LENGTH FROM PANEL ASSUMING WORST CASE 20A/1PH FAULT DISTANCE).
4. NEW/EXISTING RECEPTACLES AND/OR FURNITURE CIRCUITS TO BE CONTROLLED BY SENSORS IN THIS ROOM/AREA PER 2021 IECC/SENSOR SCHEDULE/FURNITURE SCHEDULE WHERE INDICATED. PER SENSOR/FURNITURE SCHEDULE: FURNITURE BRANCH CIRCUITS TO BE 25% ROUNDED UP (ONE CIRCUIT OF 2 TO 4 CIRCUIT FEED), AND DUPLEX/QUAD RECEPTACLES TO BE HALF CONTROLLED (TOP VS BOTTOM RECEPTACLE IN A DUPLEX), UNLESS OTHERWISE NOTED. REFER TO SCHEDULES FOR FULL DETAILS.
5. CONNECT TO EXISTING RECEPTACLE AS SHOWN.
6. NEW DISCONNECT SWITCH RATED 208V/3PH, 100A FUSED AT 70A FOR NEW XRAY IN SPACE. XRAY SPECIFICATIONS - 208V/3PH, LONG TERM CURRENT DRAW 3.0A, MOMENTARY CURRENT DRAW 133A. CONNECT USING #1CU; #4GND IN 2"C TO MAINTAIN REQUIRED VOLTAGE DROP AND GROUNDING REQUIREMENT. E.C. TO VERIFY TRANSFORMER AND ADJUST TAPS IF REQUIRED. REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS. E.C. TO COORDINATE WITH X-RAY VENDOR FOR ANY EPO SWITCH, SHUNT TRIP OR COMMUNICATIONS WIRES/CONDUITS REQUIREMENT PRIOR TO INSTALLATION.
7. TRANSFER FAN CONNECTED TO M.C. SUPPLIED LINE VOLTAGE THERMOSTAT. THERMOSTAT WIRED/INSTALLED BY E.C.. CONNECT FAN THROUGH THERMAL SWITCH USING 2-#12 CU AND #12 GND IN 3/4"C. SEE MECHANICAL PLANS FOR DETAILS. COORDINATE FINAL LOCATION WITH ARCHITECT/TENANT.

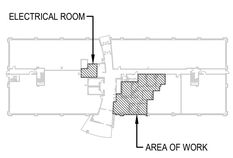
City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: R. Lowman
Date: Oct 05, 2023
2021 INTERNATIONAL CODES & 2023 NEC

RSN: *1754042*
Permit #: *23-2388505-LT*



EXISTING ELECTRICAL ROOM

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



N

KEY PLAN

COREY
Electrical Engineering, Inc.
Commercial and Transportation Design
7625 S Vaughn Ct, Suite B, Englewood, CO 80112 P (303) 694-1567 | projects@coreyengcom

NEC: 2023
IEC: 2021

1444 South Potomac
1444 South Potomac
Aurora, CO 80012
Suite 170

Metro Denver Accident and Injury

Dates of Record
Project Start Date: 30 Mar 2023

Issued On	Issued For
09/26/2023	100% SUBMITTAL

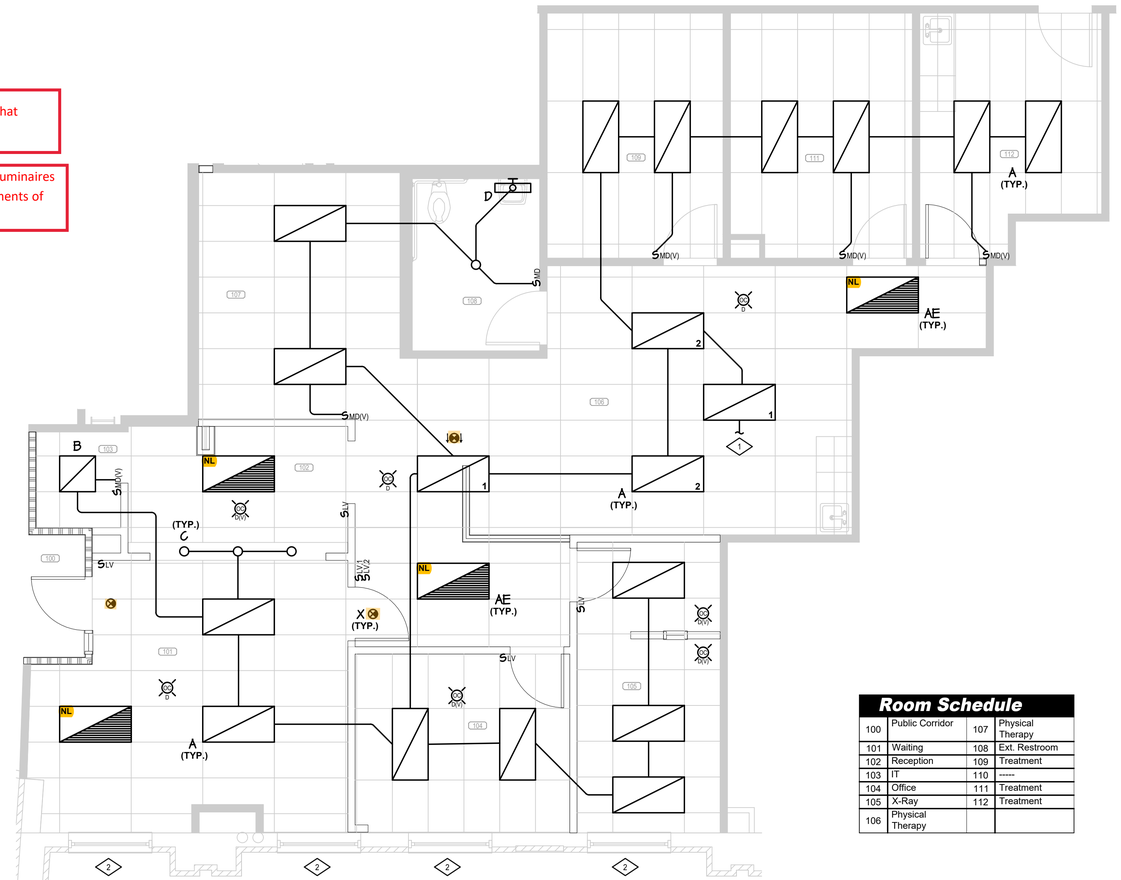
STATE OF COLORADO
STEVEN L. STEPHENS
09/26/23
32200
CEE#23116
PROFESSIONAL ENGINEER

Sheet Contents	POWER PLAN
Project Team	RR/AW
Project Number	23116
Sheet Mark	**E2.0**

RSN: 1754042
Permit#: 23-2388505-LT

Provide Emergency Illumination that complies with 2023 NEC 700.16

Suspended Ceiling Systems and the Luminaires They support shall meet the requirements of 410.36(B) 2023 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	2FSL4	2FSL4-40L-GZ10-LP835	RECESSED	10% (0-10V)	4000	3500	80+	277	31.7	
AE	LED	2' X 4'	RECESSED TROFFER W/BATTERY	LITHONIA	2FSL4	2FSL4-40L-GZ10-LP835-EL14L	RECESSED	10% (0-10V)	4000	3500	80+	277	31.7	
B	LED	2' X 2'	RECESSED TROFFER	LITHONIA	2FSL2	2FSL2-33L-GZ10-LP835	RECESSED	10% (0-10V)	3300	3500	80+	277	27.1	
C	LED	d = 4"	DOWNLIGHT	SYLVANIA	LEDRT4	LEDRT4/R4AS900UD/935S	RECESSED	10% (0-10V)	900	3500	90	277	10.5	
D	LED	[TBD]	VANITY LIGHT	MODERN FORM POLAR	POLAR	WS-32**	WALL MOUNT	10% (0-10V)	4037 (MAX)	3000	90	277	75 (MAX)	
X	LED	-	EDGE LIT GREEN BLADE TYPE EXIT SIGN W/BATTERY	ISOLITE	UNIVERSAL MOUNT EXIT SIGN	UEL-EM-G-1C2M-MTEBR	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.

** **LIGHTING PACKAGE SUPPLIER SHALL BE ESAM JONES;**
JOE LEHMBERG
NATIONAL ACCOUNT SALES GROUP
E.SAM JONES DISTRIBUTOR, INC.
PHONE: 615-668-0633 EMAIL: JLEHMBERG@ESAMJONES.COM

NL **PROVIDE NL FIXTURES WITH 90-MIN BATTERY BACKUP AND TEST SWITCH AND CIRCUIT TO LOCAL LIGHTING CIRCUIT AHEAD OF CONTROL. EXEMPTED FROM AUTOMATIC CONTROL PER IECC SAFETY/SECURITY EXEMPTION.**

[EX] PROVIDE EXIT SIGNS WITH 90-MIN BATTERY BACKUP AND CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF CONTROL.

2021 IECC CONTROL MATRIX

SPACE TYPE	MAN. ON+	MAN. OFF+	MAN. DIM	OVRD. SW. (TC)	TC ON	TC OFF	LTG. OCC. SENS. ON	LTG. OCC. SENS. OFF	12PM-6AM DIM 50% DOWN	OCC. SENS. DIM DOWN 50%	DAY-LTG. DIM	EM 90MIN BATT./ GEN'TR.	EXT. PHOTO -CELL	RECEPT. OR FURN. OCC. ON	RECEPT. OR FURN. OCC. OFF	REMARKS:
PRIVATE OFFICE	X	X	*	**	**	**		X						X***	X***	
PRIVATE EXAM ROOM	X	X	*	**	**	**		X								
OPEN OFFICE AREA (UNDER 300 SQ.FT.)	X	X	*	**	**	**	X	X						X***	X***	DUAL LEVEL CONTROL THIS AREA. ONLY 50% TO BE AUTO ON.
OPEN OFFICE AREA (300 SQ.FT. AND OVER)	X	X	*	**	**	**	X	X						X***	X***	600 SQ.FT. OR LESS SENSOR ZONES (NOT FOR PLUG CONTROL)
DAYLIGHT ZONES, PRIMARY AND SECONDARY	X	X	*	**	**	**		X			X					SEPARATE SWITCH FROM OTHER ZONES, PRIMARY AND SECONDARY
WALK IN COOLER/FREEZER	X	X	*	**	**	**	X	X								
TRAINING/CLASS/CONFERENCE/BREAK/COPY/WORK	X	X	*	**	**	**		X						X***	X***	
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								50% AND BE AUTO ON OR ALL AUTO PER SAFETY WHERE NOTED
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/SERVING	X	X	*	**	**	**	(1)	(1)								DUAL LEVEL OR DIMMED. (1) TC OR 50/50 OCCUPANCY/VACANCY.
SPECIFIC APPLICATION CONTROL	X	X	*	**	**	**	**	**								EITHER TIME CLOCK OR OCCUPANCY SENSOR PER IECC
FACTORY/INDUSTRIAL	X	X	*	**	**	**	X	X								DUAL LEVEL CONTROL THIS AREA. ONLY 50% TO BE AUTO ON.
EXTERIOR SITE LIGHTING (NOT- EM/EGRESS/LANDSCAPE/FACADE)					X	X			X***	X***			X			DOES NOT APPLY TO ANY EGRESS/EMERGENCY (SAFETY/SECURITY)
PARKING LOT LIGHTS > 78W, AND =< 24' (NON EM/EGRESS)					X	X				X			X			DOES NOT APPLY TO ANY EGRESS/EMERGENCY (SAFETY/SECURITY)
EXTERIOR FAÇADE/LANDSCAPE (NON EGRESS/EM)					X	X							X			TURN OFF 1 HOUR AFTER CLOSE AND 1 HOUR BEFORE OPEN
LOADING DOCK					X	X							X			
INSTALLED TASK LIGHTING (INCLUDING FURNITURE SYSTEMS)	X	X	*				X	X								SENSORS FOR TASK LIGHTING IN FURNITURE BY VENDOR
EXTERIOR EM					X	X						X	X			UL924/SWITCHED LEADS. EXEMPT FROM AFTER HOURS DIM DOWN.
EXTERIOR EGRESS TO PUBLIC RIGHT OF WAY					X	X							X			EXEMPT FROM AFTER HOURS DIM DOWN FOR SAFETY/SECURITY
INTERIOR EM NON-NL			*	**	**	**	X**	X**				X				UL924/SWITCHED LEADS. SENSOR IN PARALLEL WITH TC. FIRE ALARM
INTERIOR E/M/EGRESS 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 CONTROL INTENT. SENSOR TIMES TO BE PER IECC. SEE OCCUPANCY/VACANCY/DAYLIGHT SENSOR SCHEDULE ON COVERSHEET FOR MORE DETAILS. PROVIDE ADDITIONAL POWER PACKS WHERE CONTROLLING MULTIPLE/ADDITIONAL VOLTAGES. DEVICE LOCATIONS ARE APPROXIMATE, AND SHALL BE VERIFIED THROUGH THE SHOP DRAWING PROCESS AND WITH THE SPECIFIC MANUFACTURER/MODEL GUIDELINES.
*** MANUAL DIMMING WHERE REQUIRED BY PLANS. IF INDICATED ON EM/EGRESS LIGHTING, DIMMING IS TO A MINIMUM FC LEVEL NOTED PER IBC (NOT TO OFF) AND OVERRIDES ON POWER FAILURE.**
**** TIME CLOCK CONTROL WHERE/IF NOTED ON PLANS. SHALL BE ASTRONOMICAL, PHOTOCELL WHERE FOR EXTERIOR LIGHTING, PROVIDE OVERRIDE PER IECC FOR INTERIOR AND BE SET PER IECC.**
***** PROVIDE SECOND OCCUPANCY POWER PACK WHERE CONTROLLED IN ROOMS WITH VACANCY SENSORS. WHERE IN OPEN OFFICE, ENTIRE OPEN OFFICE TO BE ONE ZONE FOR PLUG CONTROL.**
****** TIME OR SENSOR DIM DOWN AFTER HOURS, SEE PLANS FOR DETAILS. DOES NOT APPLY TO FIXTURES ON EGRESS PATH OR THAT ARE EMERGENCY.**
+ FOR LIGHTING NOT VISIBLE FROM MANUAL CONTROLS, CONTROL TO INDICATE STATUS AND BE LABELLED FOR FUNCTION.
++ DAYLIGHT DIMMING TO BE SET TO LIGHT LEVEL WITH NO DAYLIGHT PRESENT, AND DIM TO OFF.

Room Schedule

100	Public Corridor	107	Physical Therapy
101	Waiting	108	Ext. Restroom
102	Reception	109	Treatment
103	IT	110	-----
104	Office	111	Treatment
105	X-Ray	112	Treatment
106	Physical Therapy		

N

LIGHTING PLAN

SCALE: 1/4"=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.

C. LOW VOLTAGE WIRING, ACCESSORIES, POWER PACKS, AND/OR DATA CABLING FOR ALL LIGHTING CONTROLS ARE NOT SHOWN GRAPHICALLY. THESE MUST BE PROVIDED FOR ALL CONTROL CHANGES/MODIFICATIONS AS REQUIRED BY THE MANUFACTURER SHOP DRAWINGS, AND SHALL NOT BE CONSIDERED AS EXISTING TO BE RE-USED UNLESS APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.

DETAIL NOTES

1. CONNECT TO NEAREST AVAILABLE LIGHTING CIRCUIT AND EXISTING CONTROL ZONE/LEG AS APPLICABLE (ONLY WHERE INDICATED TO REMAIN AND SUBJECT TO ANY ADDITIONAL CHANGES/MODIFICATIONS SHOWN/NOTED). 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 OR EQUAL TO 150W IN FIRST ZONE AND 300W TOTAL IN FIRST PLUS SECOND ZONE PER SPACE.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: R. Lowman
Date: Oct 05, 2023
2021 INTERNATIONAL CODES & 2023 NEC

RSN: *1754042*
Permit #: *23-2388505-LT*



N **KEY PLAN**

COREY Electrical Engineering, Inc.
Commercial and Transportation Design
3825 S. Wheeling Ct. Suite B, Englewood, CO 80110 | P: (303) 694-2507 | projects@coreyengr.com

NEC: 2023
IEC: 2021

1444 South Potomac
1444 South Potomac
Aurora, CO 80012
Suite 170

Metro Denver Accident and Injury

Dates of Record
Project Start Date: 30 Mar 2023

Issued On	Issued For
09/26/2023	100% SUBMITTAL

STATE OF COLORADO STEVEN L. STEELE 09/26/23 32200 PROFESSIONAL ENGINEER CEE#23116

Sheet Contents	LIGHTING PLAN
Project Team	RR/AW
Project Number	23116
Sheet Mark	**E3.0**

RSN: 1754042
Permit#: 23-2388505-LT

SUPPLIED FROM: 112.5KVA XFMR

PANEL "L1A1" (EXISTING) | **VOLTAGE** 120 / 208 V | 3 Φ | 4 W
FLUSH | **M.C.B.** 350 A | **MLO** | **I.G. BAR** | **MANF.** GE A SERIES II
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	
G	EAST DOOR	20	1	250	360					2	70	STE 170 XRAY	G	1
G	IRRIGATION	20	3			250	360			4	/	-	G	1
R	EAST VESTBULE	20	5					540	360	6	3P	-	G	1
G	WEST DOOR	20	7	250	100					8	20	BAS CABINET	G	
R	WEST VESTBULE	20	9			540	100			10	20	FACP	G	
M	EF 3	20	11					120	540	12	20	LOBBY ELEV	R	
R	IT ROOM	20	13	180	540					14	20	REC	R	
R	MAIL RM /SECURITY	20	15			540	500			16	20	HEAT TRACE	G	
G	BATHROOM COOLER	20	17					500	120	18	20	DAMPER	M	
G	DOOR	20	19	250	9120					20	100	L1A2	RKG	
R	SHELL	20	21			540	8980			22	/	-	LRKG	
R	CORRIDOR	20	23					540	8020	24	3P	-	RKG	
LRKG	L1A3	100	25	7960	540					26	20	REC	R	
LRMKG	-	/	27			7720	180			28	20	ELEVATOR PIT	R	
RMKG	-	3P	29					7690	180	30	20	ELEVATOR PIT	R	
M	EF3	20	31	500	500					32	20	MECH RM LTG REC	L	
M	-	2P	33			500	750			34	20	CUH2	G	
G	UH1	40	35					2000	750	36	2P	-	G	
G	-	/	37	2000	750					38	20	CUH2	G	
G	-	3P	39			2000	750			40	2P	-	G	
R	EXISTING	20	41					720	750	42	20	EXISTING	G	
				23300		23710		22830						

LOAD TYPE	CONNECTED KVA A	B	C	TOTAL ALL PHASES	FACTOR	DEMAND KVA A	B	C	TOTAL ALL PHASES
LIGHTING / EV CHARGERS	1.0	1.0	0.0	2.0	125%	1.3	1.3	0.0	3
RECEPTACLE (10KVA OR LESS)	3.3	3.3	3.3	10.0	100%	3.3	3.3	3.3	10
RECEPTACLE (OVER 10KVA)	9.1	9.3	11.4	29.8	50%	4.5	4.6	5.7	15
HVAC/MOTOR	0.0	0.5	0.2	0.7	100%	0.0	0.5	0.2	1
MOTOR (LARGEST)	0.5	1.0	1.0	2.5	125%	0.6	1.3	1.3	3
KITCHEN EQUIPMENT	2.9	0.5	0.9	4.4	65%	1.9	0.4	0.6	3
MISCELLANEOUS	6.5	8.1	5.9	20.5	100%	6.5	8.1	5.9	20
TOTAL KVA	23.3	23.7	22.8	69.8	TOTAL KVA	18.1	19.4	17.0	55
WITH GROUND BUS					TOTAL AMPS	151.0	161.6	142.0	151

LEGEND: L = LTG / EV R = RECEPTACLE M = HVAC / MOTOR K = KITCHEN G = MISCELLANEOUS
MAX PERCENT DIFFERENCE BETWEEN PHASES (A,B,C): 4%

1 PROVIDE AND INSTALL NEW BREAKER TO MATCH PANEL MANUFACTURER AND AIC RATING. EXISTING LOAD TO BE RELOCATED TO CIRCUITS 37,39,41 IN PANEL L1

SUPPLIED FROM: L1A1

PANEL "L1A2" (EXISTING) | **VOLTAGE** 120 / 208 V | 3 Φ | 4 W
FLUSH | **M.C.B.** | **MLO** X | **I.G. BAR** | **MANF.** GE A SERIES II
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	
R	REC	20	1	720	180					2	20	BREAK	K	
L	LTG	20	3			500	180			4	20	BREAK	K	
R	REC	20	5					720	180	6	20	IT REC	G	
R	REC	20	7	720	500					8	20	CRASH CART	G	
R	STE 170 REC	20	9			1080	720			10	20	REC	R	
R	STE 170 REC	20	11					1080	720	12	20	STE 170 REC	R	1
R	FILE	20	13	720	720					14	20	EXAM	R	
R	REC	20	15			720	720			16	20	TEMP PWR	R	
R	DR OFFICE	20	17					720	720	18	20	TEMP PWR	R	
R	OFFICE	20	19	720	720					20	20	TC	R	
R	OFFICE	20	21			720	720			22	20	EXISTING	R	
R	STE 170 REC	20	23					1080	180	24	20	STE 107 IT REC	R	1
R	EXAM HALL	20	25	720	180					26	20	STE 107 IT REC	R	1
R	EXAM HALL	20	27			720	1000			28	20	STE 170 COPIER	G	1
R	EXAM HALL	20	29					720	0	30	20	SPARE		
R	EXAM HALL	20	31	720	1000					32	20	DIGITAL SGN	G	
R	STE 170 REC	20	33			720	1000			34	/	-	G	
R	EXAM HALL	20	35					720	1000	36	3P	-	G	
K	BREAK	20	37	1000	500					38	20	SIGN	G	
K	BREAK	20	39			180	0			40	50	SPARE		
K	BREAK	20	41					180	0	42	2P	-		
				9120		8980		8020						

LOAD TYPE	CONNECTED KVA A	B	C	TOTAL ALL PHASES	FACTOR	DEMAND KVA A	B	C	TOTAL ALL PHASES
LIGHTING / EV CHARGERS	0.0	0.5	0.0	0.5	125%	0.0	0.6	0.0	1
RECEPTACLE (10KVA OR LESS)	3.3	3.3	3.3	10.0	100%	3.3	3.3	3.3	10
RECEPTACLE (OVER 10KVA)	2.6	2.8	3.3	8.7	50%	1.3	1.4	1.7	4
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	1.2	0.4	0.2	1.7	70%	0.8	0.3	0.1	1
MISCELLANEOUS	2.0	2.0	1.2	5.2	100%	2.0	2.0	1.2	5
TOTAL KVA	9.1	9.0	8.0	26.1	TOTAL KVA	7.5	7.6	6.3	21
WITH GROUND BUS					TOTAL AMPS	62.2	63.4	52.5	59

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

1 CIRCUIT REVISED THIS CONTRACT.

SUPPLIED FROM: L1A1

PANEL "L1A3" (EXISTING) | **VOLTAGE** 120 / 208 V | 3 Φ | 4 W
FLUSH | **M.C.B.** | **MLO** X | **I.G. BAR** | **MANF.** GE A SERIES II
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	
L	LTG	20	1	500	180					2	20	DED REC SERVER	G	
L	LTG	20	3			500	1000			4	20	COPIER	G	
R	DED REC	20	5					180	720	6	20	NE OFF REC	R	
R	DED REC LAB	20	7	180	720					8	20	NE OFF REC	R	
R	DED REC LAB	20	9			180	720			10	20	NE OFF REC	R	
R	COUNTERTOP REC LAB	20	11					720	720	12	20	SE OFF REC	R	
K	MW	20	13	1000	720					14	20	SE OFF REC	R	
K	BREAK RM REC	20	15			180	720			16	20	SE OFF REC	R	
K	REF	20	17					750	180	18	20	DED REC PROCEDURE	R	
K	DISHWASHER	20	19	700	720					20	20	RECEPTION REC	R	
M	FTU	20	21			1000	720			22	20	RECEPTION REC	R	
R	REC	20	23					720	720	24	20	REC US	R	
R	REC	20	25	720	720					26	20	REC US	R	
R	TTB	20	27			180	720			28	20	REC EXAM	R	
R	motor	20	29					180	1000	30	20	FTU 102	M	
	BLANK	-	31	0	720					32	20	REC	R	
	BLANK	-	33			0	720			34	20	REC	R	
	BLANK	-	35					0	720	36	20	REC	R	
M	CUH2	20	37	1000	720					38	20	REC	R	
M	-	/	39			1000	720			40	20	REC	R	
M	-	3P	41					1000	720	42	20	REC	R	
				8600		8360		8330						

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	0.0	1.0	125%	0.6	0.6	0.0	1
RECEPTACLE (10KVA OR LESS)	3.3	3.3	3.3	10.0	100%	3.3	3.3	3.3	10
RECEPTACLE (OVER 10KVA)	1.9	1.4	2.3	5.5	50%	0.9	0.7	1.1	3
HVAC/MOTOR	0.0	1.0	1.0	2.0	100%	0.0	1.0	1.0	2
MOTOR (LARGEST)	1.0	1.0	1.0	3.0	125%	1.3	1.3	1.3	4
KITCHEN EQUIPMENT	1.7	0.2	0.8	2.6	80%	1.4	0.1	0.6	2
MISCELLANEOUS	0.2	1.0	0.0	1.2	100%	0.2	1.0	0.0	1
TOTAL KVA	8.6	8.4	8.3	25.3	TOTAL KVA	7.7	8.0	7.3	23
WITH GROUND BUS					TOTAL AMPS	64.1	66.9	60.9	64

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. ELECTRICAL LOAD RELOCATED FROM CIRCUIT 2,4,6 IN PANEL L1A1.

3-PHASE FAULT CURRENT CALCULATIONS

Source Point	Source Location	Source Value (Iaic) A	Sets (n) #	Wire Size	Length (L) ft.	Feeder Type	Conduit Type	Primary Voltage (Vp) V	Secondary Voltage (Vs) V	XFMR Size (kVA)	XFMR Z (%)	Wire Factor (C)	Isc Point	Fault Location	Fault Value (Isc) A	Equip. Rating (A)
-	-	-	-	-	-	-	-	-	480	1,000.0	-	-	1	UTILITY XFMR	36,500	-
1	UTILITY XFMR	36,500	4	500	100	CU	PVC	480	-	-	-	106,824	2	MAIN SWITCHGEAR	32,494	65,000
2	MAIN SWITCHGEAR	32,494	2	000	100	CU	STEEL	480	-	-	-	25,686	3	H1A	22,310	35,000
3	H1A	22,310	-					480	208	112.5	7.0	-	4	AFTER 112.5KVA XFMR L1A1	4,105	10,000
4	AFTER 112.5KVA XFMR L1A1	4,105	1	2	15	CU	STEEL	208	-	-	-	5,906	5	L1A2	3,777	10,000
4	AFTER 112.5KVA XFMR L1A1	4,105	1	2	15	CU	STEEL	208	-	-	-	5,906	6	L1A3	3,777	10,000

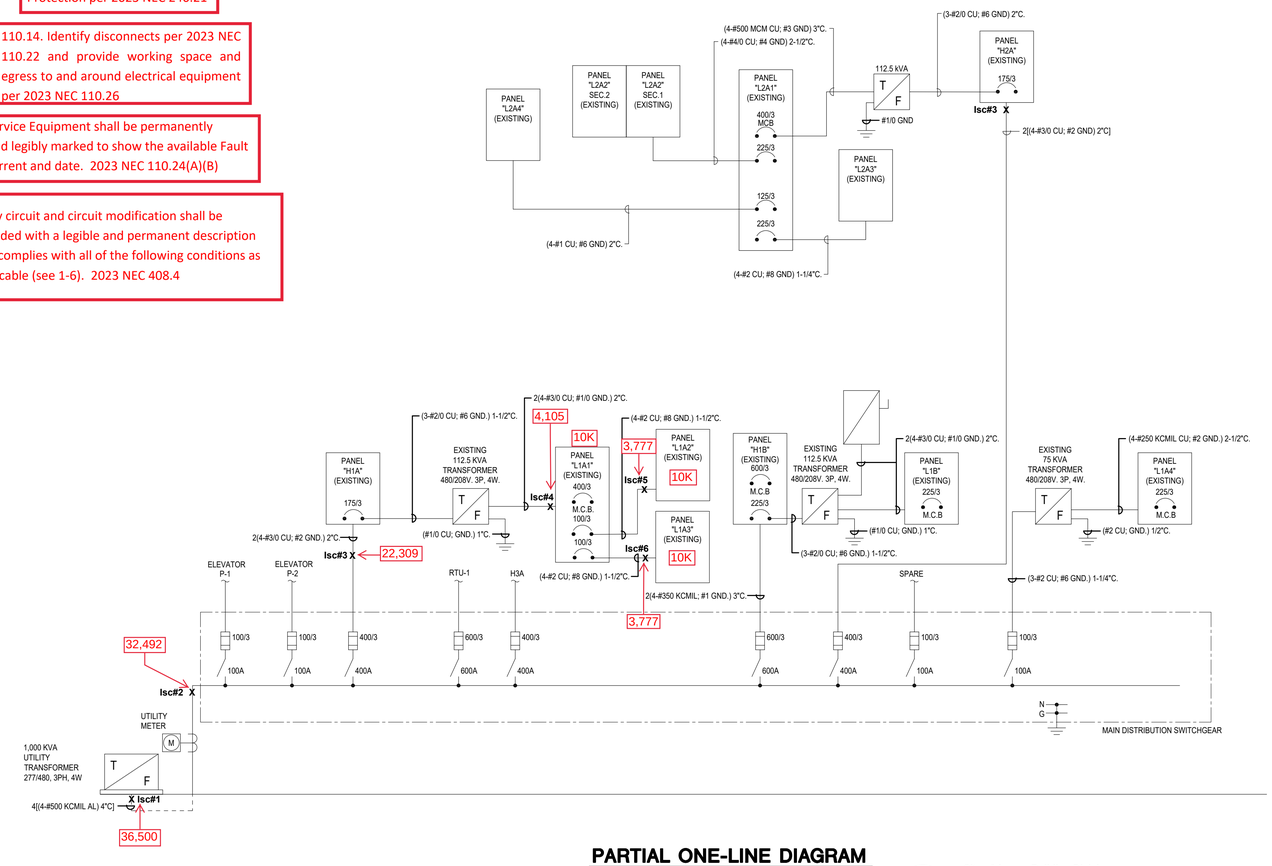
Wire Size: "0"=1/0AWG, "00" = 2/0 AWG, "000" = 3/0 AWG, "0000" = 4/0 AWG

Locate the required overcurrent Protection per 2023 NEC 240.21

110.14. Identify disconnects per 2023 NEC 110.22 and provide working space and egress to and around electrical equipment per 2023 NEC 110.26

Service Equipment shall be permanently And legibly marked to show the available Fault current and date. 2023 NEC 110.24(A)(B)

Every circuit and circuit modification shall be provided with a legible and permanent description that complies with all of the following conditions as applicable (see 1-6). 2023 NEC 408.4



PARTIAL ONE-LINE DIAGRAM

SCALE: NONE NO NEW WORK

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: R. Lowman
Date: Oct 05, 2023
2021 INTERNATIONAL CODES & 2023 NEC

RSN: 1754042
Permit#: 23-2388505-LT

COREY Electrical Engineering, Inc.
Commercial and Transportation Design
3625 S. Wheeling Ct. Suite B, Englewood, CO 80113 | P (303) 996-2307 | projects@corey.com

NEC: 2023
IEC: 2021

1444 South Potomac
1444 South Potomac
Aurora, CO 80012
Suite 170

Metro Denver Accident and Injury

Dates of Record
Project Start Date: 30 Mar 2023

Issued On	Issued For
09/26/2023	100% SUBMITTAL

COLORADO LICENSED STEVEN L. STARCH 32200 PROFESSIONAL ENGINEER
09/26/23
32200
CEE#23116

Sheet Contents: ONE-LINE DIAGRAM / SCHEDULES
Project Team: RR/AW
Project Number: 23116
Sheet Mark: **E4.0**

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title:
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Common Space Types:General Seating Area	368	0.23	85
2-Common Space Types:Office - Enclosed	134	0.74	99
3-Common Space Types:Restrooms	82	0.63	52
4-Healthcare Facility:Exam/Treatment	1238	1.40	1733
		Total Allowed Watts =	1969

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Common Space Types: General Seating Area (368 sq.ft.)				
LED: A: Other:	1	4	32	127
LED: B: Other:	1	1	27	27
LED: C: Other:	1	1	10	10
Common Space Types: Office - Enclosed (134 sq.ft.)				
LED: A: Other:	1	2	32	63
Common Space Types: Restrooms (82 sq.ft.)				
LED: C: Other:	1	1	10	10
LED: Other:	1	1	75	75
Healthcare Facility: Exam/Treatment (1238 sq.ft.)				
LED: A: Other:	1	17	32	539
		Total Proposed Watts =		852

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 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Roussab Rashid - Project Manager — Roussab Rashid — 09/18/2023
Name - Title — Signature — Date

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2021 IECC

Requirements: 0.0% were addressed directly in the COM*check* 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][3]	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
C405.2.3.1 [EL22][3]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.1.1 [EL18][3]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.2 [EL19][3]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.3 [EL20][3]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2, C405.2.2.1 [EL21][3]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][3]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.5 [EL27][3]	Additional interior lighting power allowed for special functions per the approvec lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL26][3]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8 [EL27][3]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9.1, C405.9.2 [EL28][3]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.10 [EL29][3]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.1.1 [EL30][3]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.11, C405.11.1 [EL31][3]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐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][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.1.1 [FI57][3]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][3]	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)

RSN: *1754042*
Permit #: *23-2388505-LT*

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Commercial and Transportation Design
3825 E Mineral Cir, Suite B, Englewood, CO 80113 | P: (303) 694-2507 | projects@coreyeng.com

NEC: 2023
IECC: 2021

1444 South Potomac
1444 South Potomac
Aurora, CO 80012
Suite 170

Metro Denver Accident and Injury

09/26/23
32200
CEE#23316
PROFESSIONAL ENGINEER — STATE OF COLORADO — ELECTRICAL

Dates of Record
Project Start Date: 30 Mar 2023

Issued On	Issued For
09/26/2023	100% SUBMITTAL

Sheet Contents: COMCHECK
Project Team: RR/AW
Project Number: 23116
Sheet Mark: **E5.0**

RSN: 1754042
Permit#: 23-2388505-LT