

Provide a sign stating "EXIT" in raised, visual characters and braille adjacent to each door in an area of refuge, an exterior area for assisted rescue, an exit stairway or ramp, an exit passageway and the exit discharge. **2015 IBC 1013.4**

Spec Suite 140

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

Field inspection consultation is available upon request. Call 303-739-7420 to request a consultation

Building Proprietary Vendors

Provide U.L. Class **2A10BC** minimum rating fire extinguishers at a maximum 50'-0" travel distance prior to the Certificate of Occupancy Issuance **2009 IFC Table 906.3(1)** and **2007 NFPA 10**

Project Team

Designer/ Space Planner
 Tenant Planning Services
 1660 Lincoln Street, Suite 100
 Denver, Colorado 80264
 Contact: Gene Summers
 Phone: 303.861.4800
 Fax: 303.861.1621
 Email: gene@tps.design

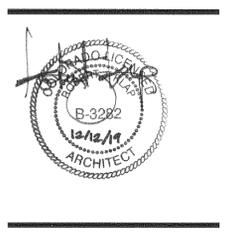
Building Representative
 CBRE
 701 E Hampden Ave.
 Suite 370
 Englewood, CO 80113
 Contact: Carl Holmes
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Mechanical Engineer
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 7822 S. Wheeling Court
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TPS
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 www.TPS.design

1411 South Potomac Suite 140
 1411 South Potomac Street
 Aurora, CO 80012



Spec Suite 140

Dates of Record
 Project Start Date: 10 Sep 2018

Approvals
 Issued On: 12 Dec 2019
 Issued For: 2019 Tenant Review & Approval and 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 _____

Abbreviations

Ø	diameter
A	ampere
A/C	air conditioning
AV	audio/visual
ADA	Americans with Disabilities Act
AF	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
EW	electric water cooler
EW	electric water heater
F.D.	floor drain
F.E.	fire extinguisher
F/A	fire alarm
FE	fire extinguisher cabinet
FHC	fire hose connection
fn.	finish or finished
ga.	gauge
gyp.	gypsum board
hd.	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
J	length/ long
mfd.	manufactured
mm	millimeter
min.	minimum or minute (per context)
mm	millimeter
nmw	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.	ounce
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

◆	Keyed Note
—	Center Line
⊕	Detail Reference Detail Number Sheet Reference
⊕	Section Reference Section Number Sheet Reference
⊕	Elevation Reference Elevation Number Sheet Reference
⊕	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
CT	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. All drawings 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 re-drawn 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 prevail over the engineered drawings (if provided) relative to design and future to be used.

5. OMISSIONS AND DISCREPANCIES. The General Contractor shall verify all 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 Representative. Approval of 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 exists. All costs incurred by the General Contractor and 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 car wells and around openings.
 14.4. When necessary, x-ray the floor slab to confirm locations of objects embedded in the concrete prior to making any penetrations in the slab.

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

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

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

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

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

20. HAZARDOUS MATERIALS. TPS has no knowledge of, and shall not be held liable for, any asbestos or other hazardous materials on the project site. Prior to commencing work on 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.

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.

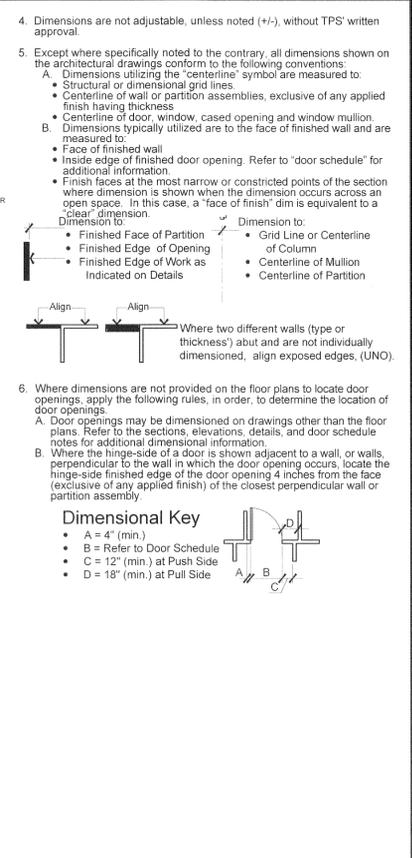
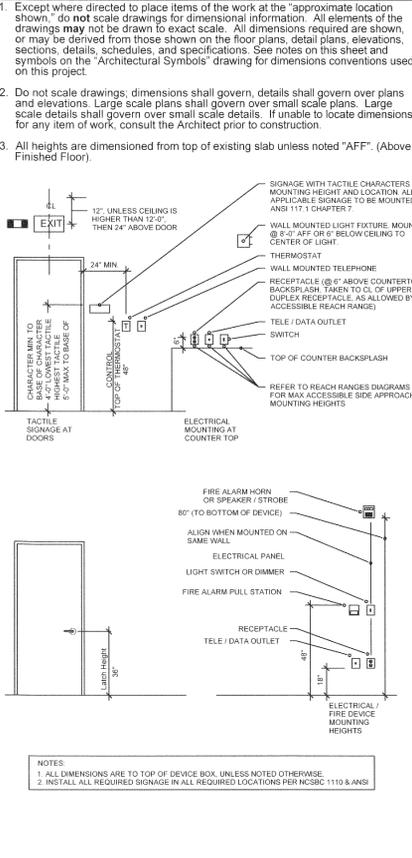
2. Do not scale drawings; dimensions shall govern, details shall govern over plans and elevations. Large scale plans shall govern over small scale plans. Large scale details shall govern over small scale details. If unable to locate dimensions for any item of work, consult the Architect prior to construction.

3. All heights are dimensioned from top of existing slab unless noted "AFF" (Above Finished Floor).

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, casing opening and window mullion
 • Dimensions typically utilized are to the face of finished wall and 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.
 Dimension to:
 • Grid Line or Centerline of Column
 • Centerline of Mullion
 • Centerline of Partition

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.



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

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 fire sprinkler permit is required. If it is determined that the spacing of the fire sprinkler heads is not in compliance, then a separate fire sprinkler permit is required. Approval of the documents is required prior to system installation or any request for inspection. A certificate of occupancy or final approval cannot be issued by the Building Division without this fire protection system. **2015 IFC, Section 105.7.1.**

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 "sml" 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.

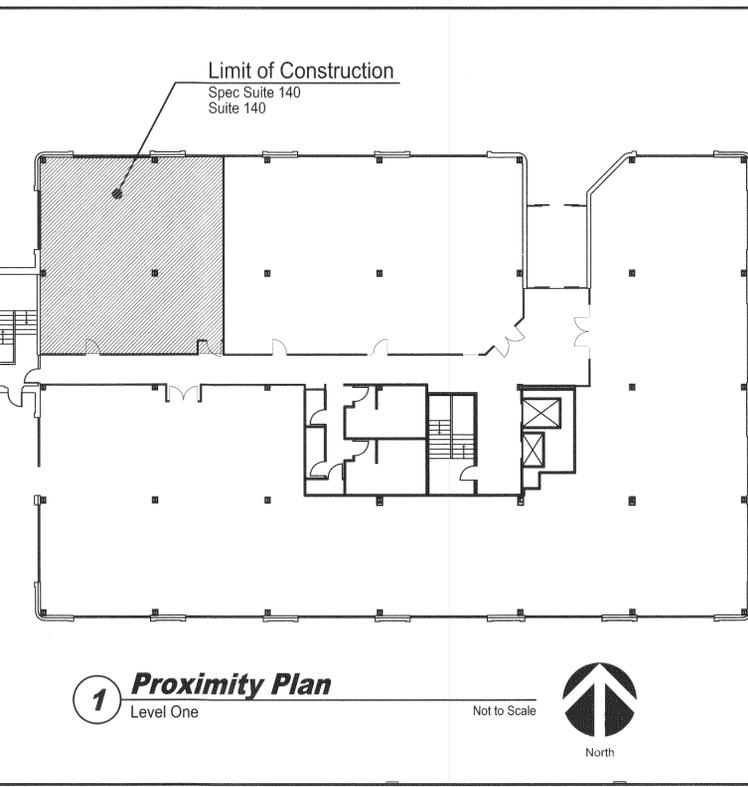
Relocate: means to reuse a particular device, fixture, or item in a new location.

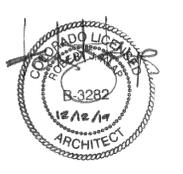
Remain: to continue unchanged.

Reused: to use again especially in a new way or in a new location.

City of Aurora Building Division
 Project: **Tenant Improvement**
 Address: **1411S. Potomac St. Unit 140**
 Occupancy Group: **IBC TYPE B**
 Construction Type: **IBC TYPE IIB-SPK**
 RSN: **1426505**
 Permit: **19-1741436 LT**

City of Aurora Building Division
 Reviewed for Code Compliance
 Approved as Noted: **William Griffin**
 Date: **Dec 23, 2019**
 2015 INTERNATIONAL CODES & 2017 NEC
 RSN: **1426505**
 Permit #: **19-1741436 LT**





Life Safety Legend

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

Room Schedule

100	Waiting	107	Exam #2
101	Reception	108	Exam #3
102	Storage	109	Restroom
103	Procedure	110	Exam #4
104	MA Station	111	Break Room
105	Exam #1	112	Hallway
106	Office		

Codes and Regulations

Building Profile

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

Use and Occupancy

Occupant Name: Spec Suite 140
 Occupant Use: General Business Office
 Occupancy Classification: Business Group B

Tenant Area

Total	Existing	Expansion
(approx.) Useable SF: 1,636		

Construction Area: City of Aurora

Applicable Codes

2015 IBC (International Building Code) with Amendments
 2015 IPC (International Plumbing Code)
 2015 IMC (International Mechanical Code)
 2015 IFC (International Fire Code)
 2015 IECC (International Energy Conservation Code)
 2017 NEC (National Electric Code)

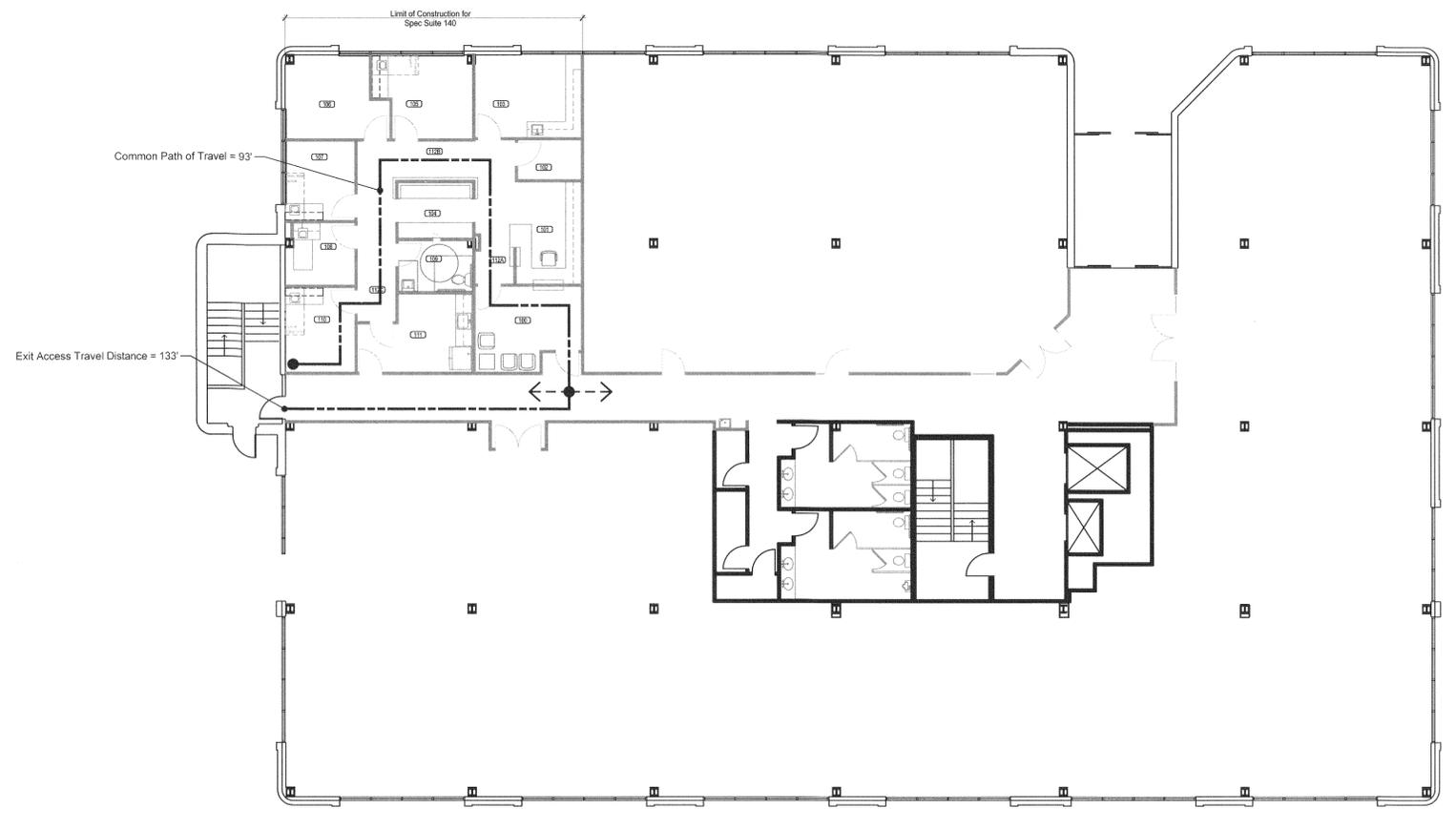
Interpretations

Occupancy Load Analysis

Suite	Function Per Table 1004.1.1	Floor Area (USF)	Floor Area (SF/Occ)	Number of Occupants
140	Business	1636	+100 gross =	17

Means of Egress

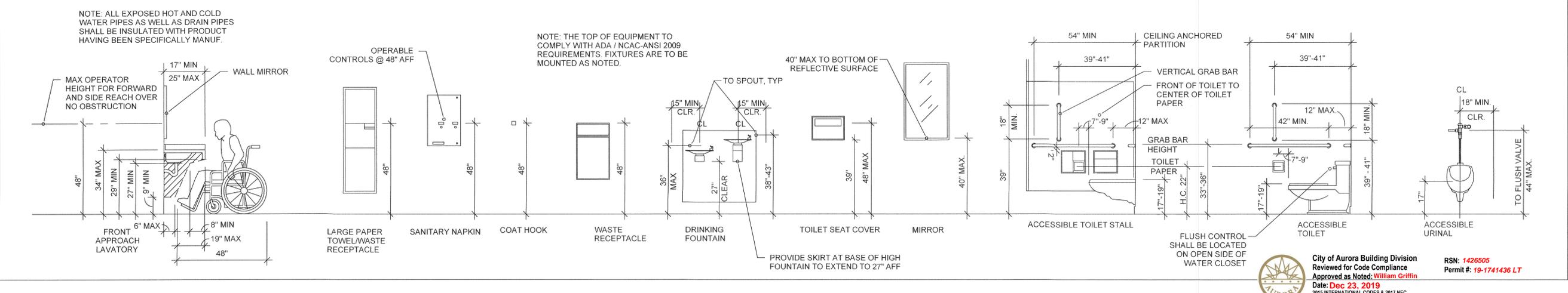
Required	Provided
Egress Width: min: 34"	34"
Number of Exits: min: 1	2
Common Path of Travel: max: 100'	93'
Exit Access Travel Distance: max: 133'	300'



Provide lever or other approved hardware on all new or relocated doors. 2003 ANSI A117.1

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

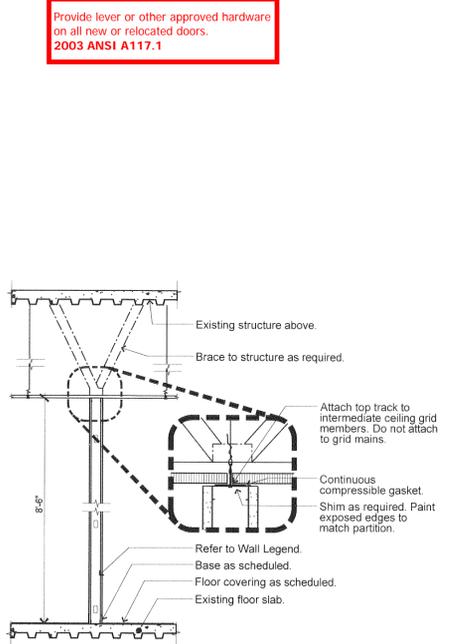
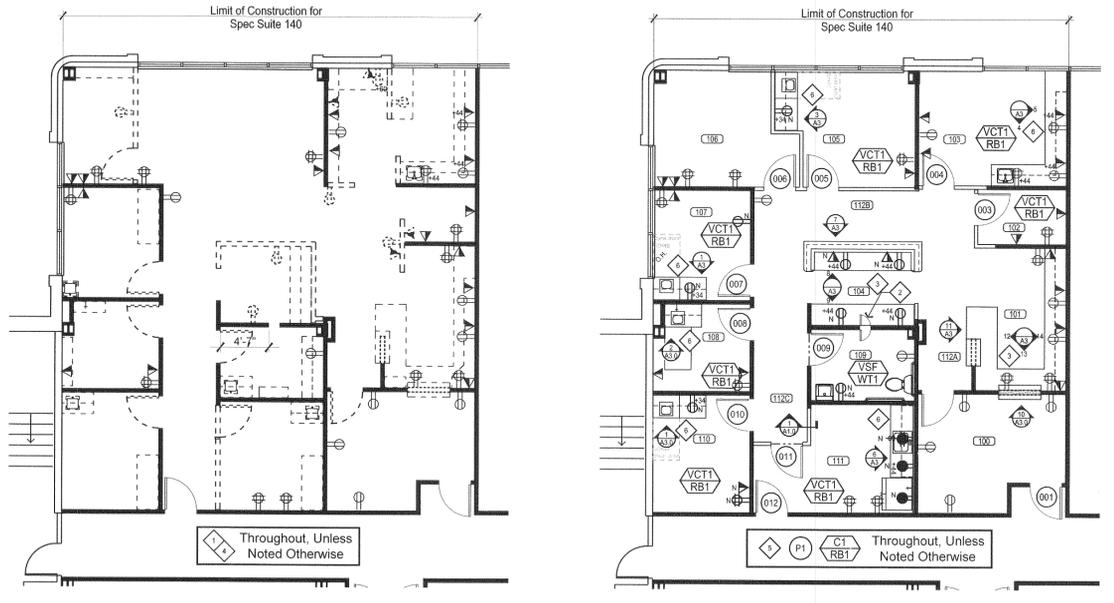
Accessible Installation Standards (n.t.s.)





Room Schedule table with columns for room number, name, and exam number.

- Sheet Keyed Notes: SALVAGE DOOR FRAMES, Provide NEW PASS-THRU SPECIMEN assembly, NEW MILLWORK, DEMO ALL EXISTING chair rail, Replace all existing non-white devices, NEW MILLWORK AND PLUMBING.



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

2 Demolition Plan Suite 140 Scale: 1/8" = 1'-0"

3 Construction Plan Suite 140 Scale: 1/8" = 1'-0"

Sheet A1.0 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.
3. FINISH TREATMENTS scheduled to remain and be re-used are as follows: carpet, resilient flooring, base trim, wall treatments.
4. FINISH TREATMENTS scheduled to be removed are as follows: carpet, resilient flooring, base trim, wall treatments.
5. DISPOSAL: All existing equipment, materials and fixtures not scheduled for re-use shall remain the property of the Owner.
6. RE-USE: Investigate condition of all materials scheduled for demolition and not re-used on this project.
7. CLEAN AND REPAIR: Verify condition of all materials scheduled for demolition and re-use where possible.
8. PREPARATION: Unless otherwise specified, remove all existing wall coverings, floor coverings, and baseboards throughout and prepare existing surfaces for new finish treatments.
9. PATCHING: Remove all unused sleeves through the floor slab and fill/patch all penetrations.
10. ELECTRICAL DEMOLITION: Existing electrical and communications/data wiring within partitions, raceways or above the ceiling which are not scheduled for re-use shall be removed entirely, including hangers, supports, terminals, conduit and junctions from source to point of termination.
11. PIPES AND CONDUITS: All pipes and conduit in partitions scheduled for demolition shall be removed entirely when not scheduled for re-use.
12. ABANDONED APPARATUS: Abandoned electrical circuits, fixtures and devices discovered by the contractor and not scheduled for re-use shall be reported to the building representative for further direction.
13. TELEPHONE/DATA REMOVAL: Unless otherwise indicated on the drawings, remove of all existing telephone equipment or components not currently in use.
14. DOOR ASSEMBLIES:
14.1. All assemblies shown on the drawings and not referenced to the Door Schedule in the Sheet Plan Notes are existing to remain (unless noted otherwise).
14.2. 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.
14.3. 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.
15. 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:
15.1. Sound attenuation in walls shall be unfaced fiberglass, 16" to 24" wide to correspond with stud width.
15.2. Thermal insulation in walls shall be Kraft faced fiberglass, 16" to 24" wide, with R-13 thermal value.
15.3. Sound attenuation in ceilings shall be foil faced fiberglass, 24" wide, for use in return air plenums.
16. 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.
17. PARTITIONS: Conform to the following:
17.1. Partitions shall be erected plumb and true.
17.2. 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.
17.3. Skim coat existing partitions as needed.
17.4. All exposed corners shall be fitted with metal corner bead and top of walls at underside of suspended ceilings shall be straight and true.
17.5. Provide "kickers" or metal stud support from the top of the partition to the underside of the structure above for:
17.5.1. Runs in excess of 9 feet;
17.5.2. At all strike side jambs of door assembly openings;
17.5.3. At any glazed opening within 36" of the strike side of swinging doors; and
17.5.4. At 8 feet on center, maximum.
18. 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.
19. EXISTING PLUMBING SYSTEMS: Modify on a DESIGN-BUILD basis. Conform to these drawings and documents and as required for obtaining a building permit. Refer to General Notes.
20. 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).
21. GENERAL FINISH TREATMENT NOTES:
21.1. Coordination: finish treatment subcontractors and installers shall coordinate with other trades for applications affecting other trades, especially millwork, etc.
21.2. Unless noted otherwise, all floor coverings, baseboard, and floor preparation shall be the responsibility of the General Contractor, including removal of existing materials.
21.3. Installation: all finish treatments shall be installed or applied in strict accordance with the manufacturer's written specifications and the drawings.
21.4. Protection: protect all surfaces, doors, hardware, outlet plates, etc. From spills, splatters and overspray of paint, drywall compound, adhesive and other materials.
21.5. Preparation: field measure each space to receive finish treatment as a basis of supplying, cutting and seaming material. Do not scale the drawings or calculate sizes from dimensions shown.
21.6. Surfaces: all surfaces shall be properly prepared prior to installation of material including but not limited to priming of walls to receive paint, sizing of walls to receive wall covering, patching/filling holes and depressions, etc.
21.7. Surface texture: unless noted otherwise, all drywall finish shall be smooth.
22. 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:
22.1. Where carpet seams occur in doorways, locate seam beneath center of door slab.
22.2. Furnish and install resilient type reducer strip (saddle) where resilient floor coverings abutt carpet. See drawing for color.
22.3. Coordinate installation for uniformity where dye-lot variations may occur in material.
23. 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:
23.1. Wrap all device cover plates with wall covering only on walls scheduled to receive wall covering (match wall finish).
23.2. Furnish and install "J" metal polished aluminum edge cap (mudded in) at corners where wall coverings terminate and ends are exposed.
24. PAINT: paint shall be installed or applied in strict accordance with the manufacturer's written specifications and as recommended by "The Modern Guide To Painting Specifications" (latest edition) and shall also conform to the following:
24.1. Surfaces scheduled for painting shall receive no less than two coats of paint (3.0 mil, min. thickness).
24.2. 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.
24.3. 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.
24.4. 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.
25. WINDOW COVERINGS: unless noted otherwise, window coverings shall be the responsibility of the General Contractor and shall conform to the following:
25.1. FURNISH AND INSTALL NEW WINDOW COVERINGS at exterior glazing throughout. Specification:
25.2. RE-USE EXISTING WINDOW COVERINGS at exterior glazing throughout. Wrap and bag all window coverings during construction. The General Contractor shall inspect existing conditions of material and operation and make necessary repairs or replace to match existing. Replace window coverings if missing. Upon completion of job, clean material, hardware and housings thoroughly, including both sides of window covering material.
26. The General Contractor is responsible to verify all specified finishes match existing at prior to order/installation.

Provide lever or other approved hardware on all new or relocated doors. 2003 ANSI A117.1

Door Schedule table with columns for Mark, Stater, Type, Leaf Size, Material, Finish, FRR, Material, Finish, FRR, Latch Func, Additional Components, Remarks, Mark.

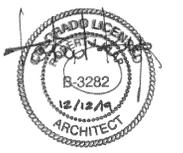
The General Contractor shall field verify that all door and hardware specifications match Building Standards (unless noted otherwise) and coordinate ANY AND ALL discrepancies directly with the TPS representative (as indicated on the cover sheet Project Team list) prior to proceeding. This includes, but 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.

Door, Frame, and Hardware Specifications table with columns for Door, Frame, and Hardware Specifications, Latch Function Legend, Door Types.

Finish Treatment Schedule table with columns for Material, Manufacturer, Style/Line, Color, MARK, Remarks/Comments.

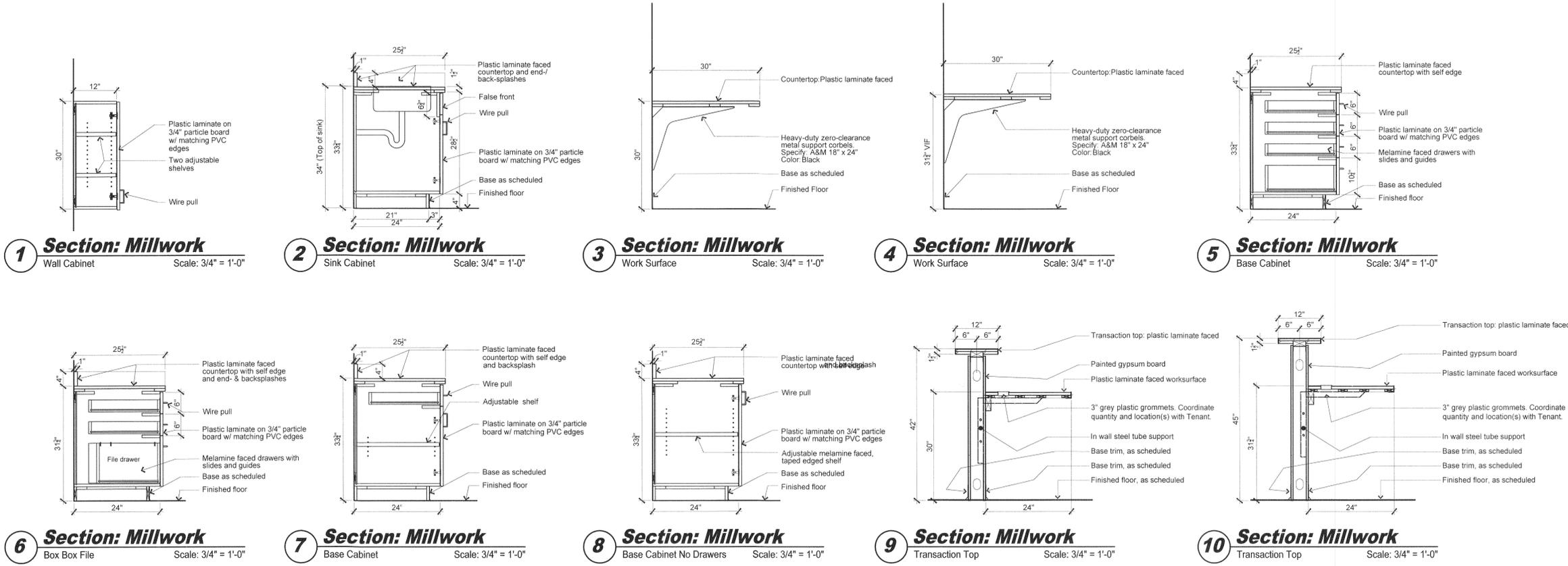
Wall Legend table with columns for Existing Partition, Existing Partial Height Partition, New Standard Interior Partition, New Partial Height Partition, Match existing construction.

Symbol Legend table with columns for Wall Mounted Fixtures/Devices, Duplex electrical receptacle & face plate, Quadplex electrical receptacle & face plate, Duplex electrical receptacle & face plate on dedicated circuit, Combination telephony/ data outlet rough-in, Water supply line.



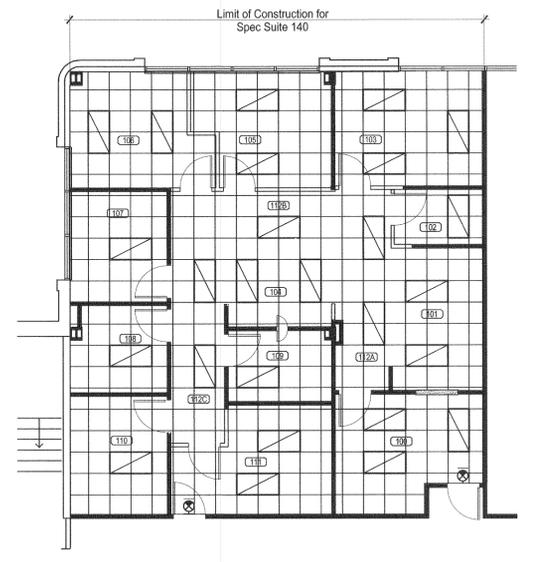
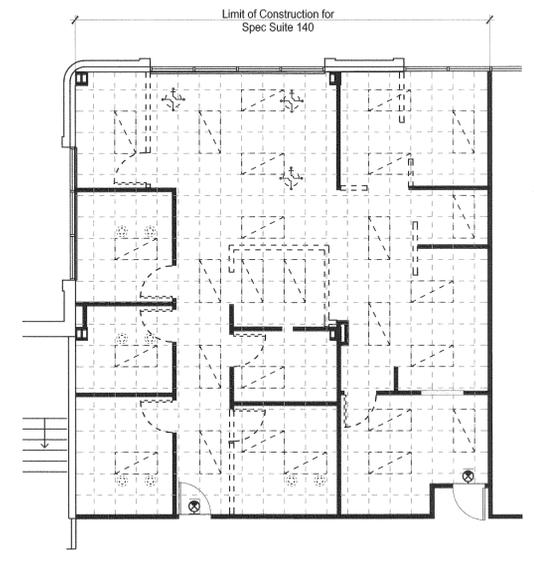
Room Schedule			
100	Waiting	107	Exam #2
101	Reception	108	Exam #3
102	Storage	109	Restroom
103	Procedure	110	Exam #4
104	MA Station	111	Break Room
105	Exam #1	112	Hallway
106	Office		

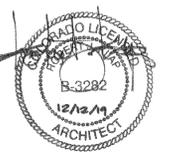
Symbol Legend	
Ceiling Mounted Fixtures/ Devices	
	Building Standard 2x4 LED light fixture
	Pendant fixture
	Recessed downlight fixture
NOTE: all fixtures shown half shaded shall have night light egress function.	
	Building Standard Exit Sign. Green letters on white face. Battery backup. Shade indicates face(s) and arrows (if any) indicate direction.
Wall Mounted Fixtures/ Devices	
	Building Standard single pole switch
	Special function switches.
	"D" = dimmable switch and ballast
	Symbols shown shaded and/or dashed indicate devices to be removed/ demolished.
	"E" Existing fixture to remain
Refer to Engineering Drawings for complete specifications	



Sheet A2.0 Plan Notes

- Refer to General Notes for additional requirements.
- PROVIDE NEW SUSPENDED CEILING SYSTEM** throughout as follows:
 - Suspended grid system shall match building standard (Armstrong).
 - Ceiling tile shall match building standard (Armstrong).
 - Installation of grid system shall be in complete accordance with the manufacturer's specifications utilizing the layout as indicated on the drawings.
 - 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."
 - Installation of tiles shall be continuous over walls. Refer to drawings for specific requirements.
 - All tiles shall be seated tight, level and true within the grid system.
 - The suspended ceiling system shall conform to requirements set forth by U.L.
- CEILING HEIGHT:** 8'-6" AFF, VIF (UNO). Refer to construction details for ceiling construction and interface with partitions.
- FIXTURES AND DEVICES:** Provide and/or relocate light fixtures, switches, and controls indicated on the drawings.
 - Refer to Symbols Legend for fixture type and/or specification.
 - Install and support fixtures from the structure in accordance with the code.
 - Install all new light fixtures, sprinkler heads, diffusers, speakers, detectors, alarms, etc. in the center of the ceiling board or section and symmetrical throughout rooms and open areas, unless noted otherwise.
 - The contractor shall field verify all proposed locations of light fixtures prior to commencing construction and shall notify TPS of any discrepancies and/or conflicts with existing installations.
 - Existing fixtures scheduled to remain or be re-used shall be inspected and reworked, if necessary. Fixtures shall be cleaned, including lenses and lamps. Defective ballasts and other components shall be replaced. Match existing conditions.
 - All light fixtures, exit signs, and switch devices shown throughout are new (unless noted otherwise).
 "E" indicates existing fixtures/device to remain
 "R" indicates relocated fixture or device
- LIGHTING DIMENSIONS:** Unless noted otherwise, all light fixtures and devices are dimensioned to the centerline of the fixture.
- EXISTING FIRE SPRINKLER HEADS** mounted in the ceiling may be shown on the drawings, and are intended for informational purposes only. Drawings shall be submitted by the General Contractor for any new work required.
- MODIFY EXISTING FIRE SPRINKLER SYSTEM** on a DESIGN-BUILD basis. Conform to these drawings and documents and as required for obtaining a building permit. Refer to General Notes.





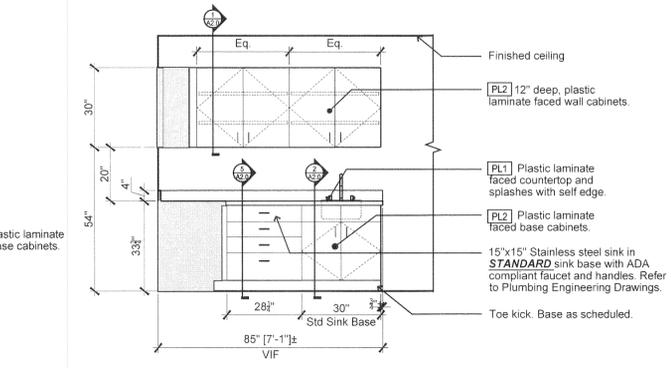
Dates of Record

Project Start Date: 10 Sep 2018
 Issued On: Issued For
 23 Oct 2018: Tenant Review & Approval, and Construction

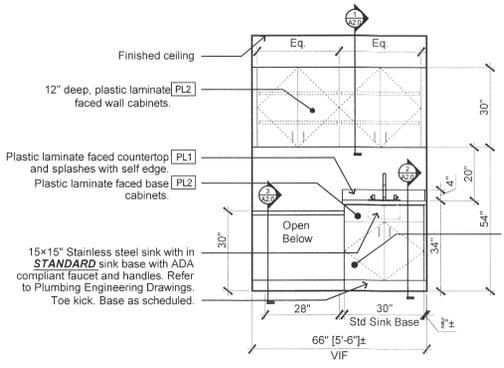
Sheet	Millwork Elevations
Contents	
Project #	426009
Proj Mgr	GBS
Designed by	JMB
Checked by	GBS

RSN: 1426505
 Permit #: 19-1741436 LT

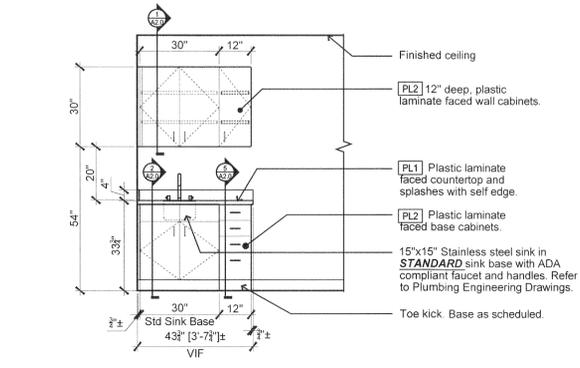
A3.0



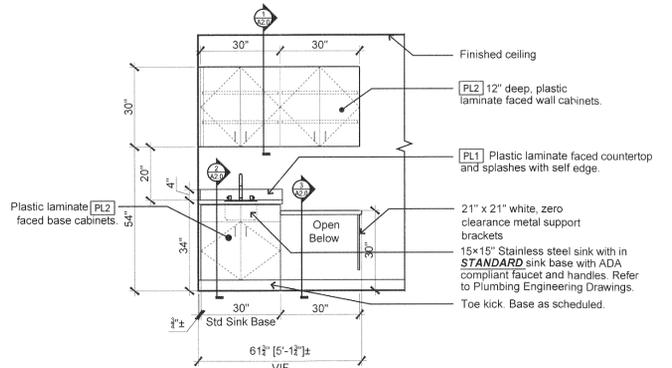
4 Elevation: Millwork
 At Procedure Room 103 Scale: 3/8" = 1'-0"



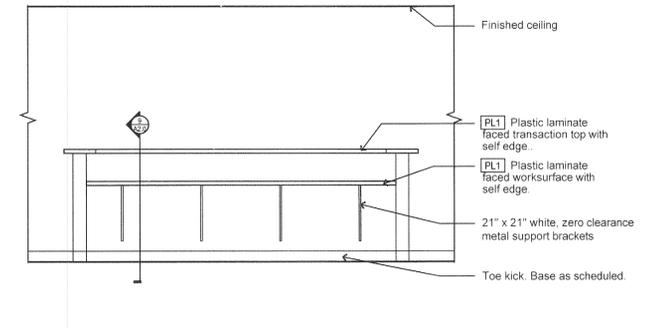
3 Elevation: Millwork
 At Exam Room 105 Scale: 3/8" = 1'-0"



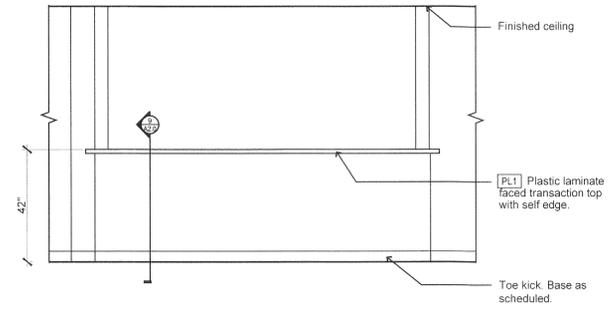
2 Elevation: Millwork
 At Exam Rooms 108 Scale: 3/8" = 1'-0"



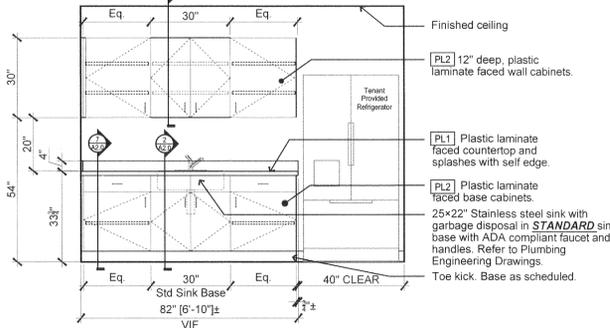
1 Elevation: Millwork
 At Exam Rooms 107 & 110 Scale: 3/8" = 1'-0"



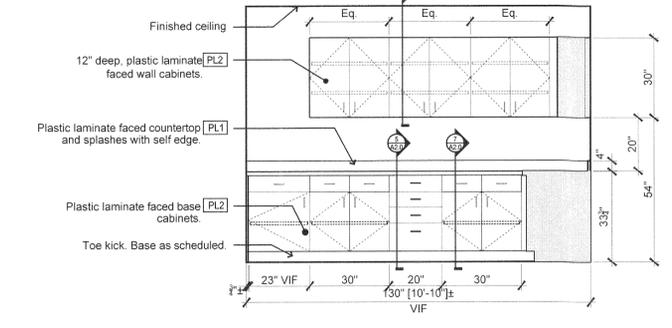
8 Elevation: Millwork
 At MA Station 104 Scale: 3/8" = 1'-0"



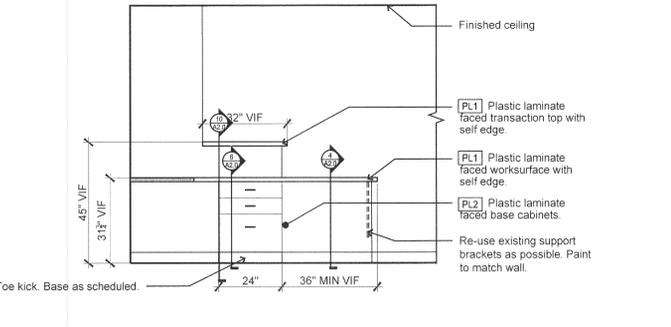
7 Elevation: Millwork
 At MA Station 104 Scale: 3/8" = 1'-0"



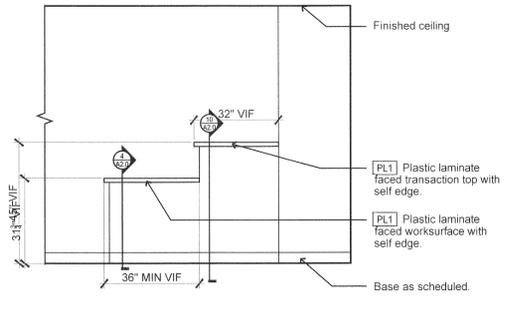
6 Elevation: Millwork
 At Break Room 111 Scale: 3/8" = 1'-0"



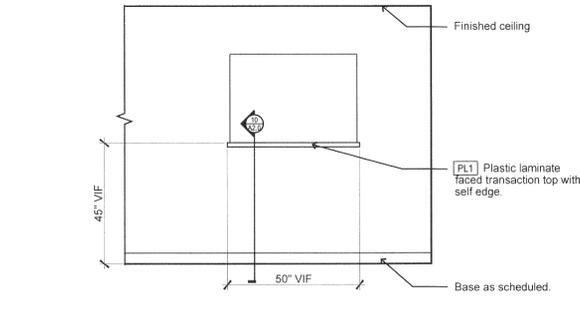
5 Elevation: Millwork
 At Procedure Room 103 Scale: 3/8" = 1'-0"



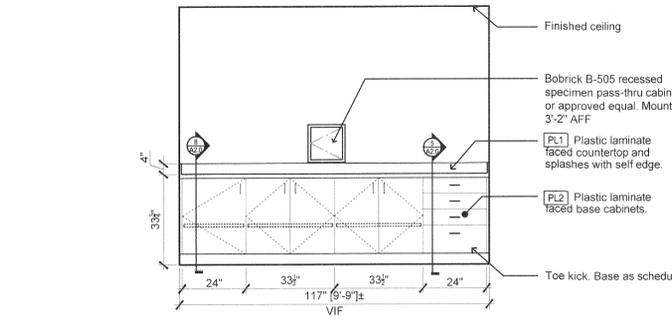
12 Elevation: Millwork
 At Reception 101 Scale: 3/8" = 1'-0"



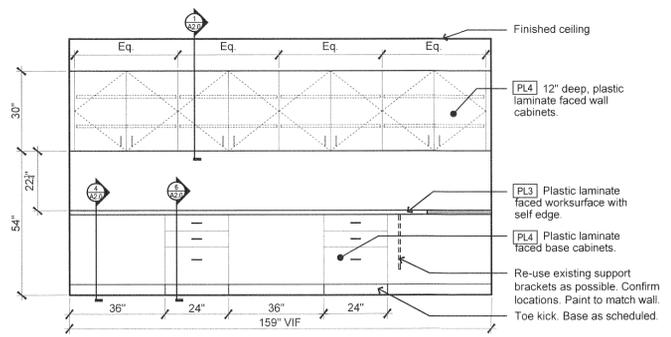
11 Elevation: Millwork
 At Reception 101 Scale: 3/8" = 1'-0"



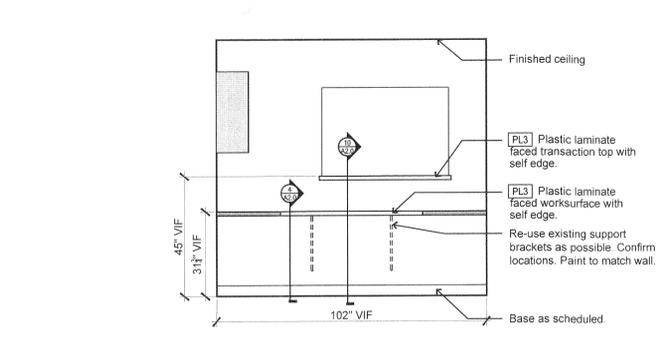
10 Elevation: Millwork
 At Reception 101 Scale: 3/8" = 1'-0"



9 Elevation: Millwork
 At MA Station 104 Scale: 3/8" = 1'-0"



14 Elevation: Millwork
 At Reception 101 Scale: 3/8" = 1'-0"



13 Elevation: Millwork
 At Reception 101 Scale: 3/8" = 1'-0"

Project start date: 10 Sep 2018
 12/29/2019 9:23:19 PM
 dwg save date: 12/11/2019 5:59:22 PM
 pl Create date: 12/12/2019 10:27:24 AM
 By: Jill Berry
 P: 1426
 1411 South Potomac
 426009_Spec Suite 140.dwg
 140.dwg
 12/12/2019 10:27:24 AM
 Jill Berry
 1411 South Potomac
 426009_Spec Suite 140.dwg

1411 South Potomac • Spec Suite 140

MECHANICAL GENERAL NOTES

GENERAL

SCOPE

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

SITE EXAMINATION

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

STANDARDS

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

CODES

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

PERMITS AND FEES

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

WARRANTY

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

FILTERS

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

DUCTWORK & ACCESSORIES

SHEETMETAL DUCTWORK

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

DUCT SEALANT

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

SUPPORTS

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

DAMPERS

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

GRILLES, REGISTERS, & DIFFUSERS

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

THERMAL INSULATION

PROVIDE EXTERNAL THERMAL INSULATION WITH AN INTEGRAL VAPOR BARRIER FACING OF SUFFICIENT THICKNESS TO PROVIDE R6 WHEN LOCATED IN UNCONDITIONED SPACE & R12 WHEN LOCATED OUTSIDE THE BUILDING. PROVIDE INSULATION ON EXHAUST AND OUTSIDE AIR DUCTS. DO NOT INSULATE EXPOSED DUCTWORK AND PORTIONS OF DUCTWORK THAT ARE INTERNALLY LINED. THERMAL INSULATION TO COMPLY WITH AN NFPA FLAME SPREAD OF 25 OR LESS, AND SMOKE DEVELOPED NO GREATER THAN 50.

CONTROLS AND OPERATIONS

CONTROL WIRING

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

CONTROLS

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

TESTING, ADJUSTING, AND BALANCING

TESTING, ADJUSTING, BALANCING

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

LEGEND

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

Room Schedule

100	Waiting	107	Exam #2
101	Reception	108	Exam #3
102	Storage	109	Restroom
103	Procedure	110	Exam #4
104	MA Station	111	Break Room
105	Exam #1	112	Hallway
106	Office		

OUTSIDE AIR COMPLIANCE

DESCRIPTION	ROOM NUMBER	AREA SF	PEOPLE/1000SF	POPULATION	CFM/PERSON	AREA AIRFLOW RATE	Ez	REQUIRED OUTSIDE AIR CFM	SUPPLY AIR	% OUTSIDE AIR	OUTSIDE AIR PROVIDED	EXHAUST AIR PROVIDED
WAITING	100	130	30	4	5	0.06	0.8	34	250	25%	63	0
RECEPTION	101	165	5	1	5	0.06	0.8	18	150	25%	38	0
PROCEDURE	103	140	5	1	5.0	0.06	0.8	15	425	25%	106	0
MA STATION	104	170	5	1	5.0	0.06	0.8	18	250	25%	63	0
EXAM # 1	105	120	5	1	5.0	0.06	0.8	13	425	25%	106	0
OFFICE	106	125	5	1	5.0	0.06	0.8	13	315	25%	79	0
EXAM # 2	107	90	5	0	5.0	0.06	0.8	10	250	25%	63	0
EXAM # 3	108	70	5	0	5.0	0.06	0.8	7	125	25%	31	0
RESTROOM	109	60	0	0	0.0	0	0.8	0	80	25%	20	75
EXAM # 4	110	95	5	0	5.0	0.06	0.8	10	125	25%	31	0
BREAK ROOM	111	125	5	1	5.0	0.06	0.8	13	200	25%	50	0
HALLWAY	112	115	0	0	5.0	0.06	0.8	9	150	25%	38	0
TOTALS		1405		9				160	2745		686	75

FAN TERMINAL UNIT SCHEDULE

MARK	MFR. & MODEL NUMBER	AIR INLET SIZE	PRIMARY AIR		HEATING			FAN MOTOR			MCA	REMARKS
			MAX. CFM	MIN. CFM	VOLTAGE	KW	HEATING CFM	VOLTAGE	HP	FLA		
FVAV-1-6	VFPE11C2	8"Ø	815	200	277/1	7.5	800	277/1	1/3HP	1.9	36.4	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 BE RELOCATED
B	SUPPLY	24" x 24"	10"Ø	NO	NO	PRICE	PDF	NEW
R	RETURN	-	-	-	-	-	-	EXISTING TO BE RELOCATED
R1	RETURN	24" x 12"	22" x 10"	NO	NO	PRICE	PFRF	NEW. PROVIDE RETURN AIR CANOPY.

VAV TERMINAL SCHEDULE

MARK	MANUFACTURER	MODEL	AIR INLET SIZE	MAX. PRIMARY AIR CFM COOLING	MIN. PRIMARY AIR CFM (% OF MAX. SETTING)	REMARKS
VAV-1-3	TRANE	VCCE17	10"Ø	1080	25%	1

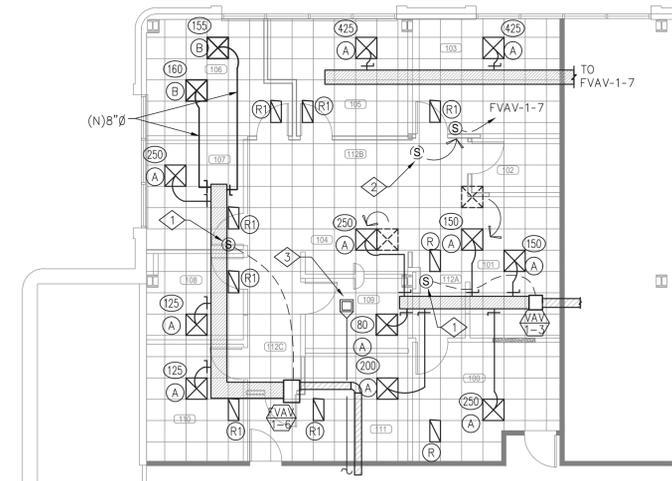
NOTES:
1. EXISTING TO REMAIN.

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

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

- DETAIL NOTES:
- 1 (E) TEMPERATURE SENSOR TO REMAIN.
 - 2 (E) TEMPERATURE SENSOR TO BE RELOCATED.
 - 3 (E) EXHAUST FAN TO REMAIN.

ALL DUCTWORK & GRILLES AND DIFFUSERS ARE EXISTING TO BE RELOCATED TO (N) CEILING GRID. SALVAGE ALL GRILLES & DIFFUSERS PRIOR TO DEMOLITION. (N) DUCTWORK & GRILLES AND DIFFUSERS WILL BE NOTED AS SUCH.



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



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: William Griffin
Date: Dec 23, 2019
2015 INTERNATIONAL CODES & 2017 NEC

RSN: 1426505
Permit #: 19-1741436 LT



PROFESSIONAL ENGINEER

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

1411 South Potomac
1411 South Potomac Street
Aurora, CO 80012
Suite 140



Digitally signed by
Brian Seyferth
Date: 2019.12.17
10:06:19 -07'00'

Spec Suite 140

Dates of Record

Project Start Date: #####
Issued On Issued For
17 DEC 2019 Tenant's Review & Approval
and Construction

Sheet Contents MECHANICAL PLAN AND NOTES

Project Team LC/BS
Project Number 19495

Sheet Mark M1.0



PROFESSIONAL ENGINEER

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

1411 South Potomac
1411 South Potomac Street
Aurora, CO 80012
Suite 140

Digitally signed by
Brian Seyferth
Date: 2019.12.17 10:06:45 -07'00'



Spec Suite 140

Dates of Record

Project Start Date: #####
Issued On: 17 DEC 2019
Issued For: Tenant's Review & Approval and Construction

Sheet Contents PLUMBING PLAN AND NOTES

Project Team: LC/BS
Project Number: 19495

Sheet Mark: P1.0

RSN: 1426505
Permit #: 19-1741436 LT

PLUMBING FIXTURE SCHEDULE								
MARK	DESCRIPTION	MANUFACTURER	MODEL	CW	HW	TW	W	REMARKS
P100	WATER CLOSET	AMERICAN STANDARD	211AA.104	1/2"			3"	COLOR WHITE, W OPEN SEAT, 17" FLOOD RIM
P105	STAINLESS STEEL SINK	ELKAY	DLR2522				2"	
P106	SINK FAUCET	DELTA	100-WF	1/2"	1/2"			
P129	ICE MAKER	WATER TITE	SSIB1	3/8"				
P130	SUMP PUMP	ZOELLER	MODEL 53				2"	115V, .3 HP, 1 PH, 9.7 AMPS, 60HZ
P144	EXAM ROOM SINK	ELKAY	LRAD1517					
P145	LAB FAUCET	DELTA	1501T3320	1/2"	1/2"			

Room Schedule

100	Waiting	107	Exam #2
101	Reception	108	Exam #3
102	Storage	109	Restroom
103	Procedure	110	Exam #4
104	MA Station	111	Break Room
105	Exam #1	112	Hallway
106	Office		

Provide self-closing or metered faucets in public restrooms.
2015 COA 22-326 (a)

PLUMBING GENERAL NOTES

GENERAL

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

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

STANDARDS
EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF ASME, ASTM, UL, NEMA, ANSI, ASHRAE, 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/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST.

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

WARRANTY
THE PLUMBING 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 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 MATERIALS AND WORKMANSHIP.

PIPING

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

DOMESTIC WATER PIPING
DOMESTIC WATER PIPING 2" AND SMALLER SHALL BE COPPER TUBE WITH WROUGHT COPPER SWEAT FITTINGS JOINED WITH LEAD FREE SOLDER. PROVIDE TYPE "L" COPPER TUBE ABOVE GRADE AND TYPE "K" BELOW GRADE.

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

CONNECTIONS
INSTALL UNIONS ADJACENT TO EACH VALVE AND AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT. INSTALL DIELECTRIC COUPLINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS. SCREW JOINT STEEL PIPING UP TO AND INCLUDING 1-1/2". WELD

PIPING USE LEAD FREE SOLDER FOR SOLDERING DOMESTIC WATER COPPER PIPE.

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

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

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

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

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

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

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

MISC PLUMBING FIXTURES
OWNER FURNISHED CONTRACTOR INSTALLED PLUMBING FIXTURES/EQUIPMENT

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

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

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

PIPE HANGER SPACING REQUIREMENTS

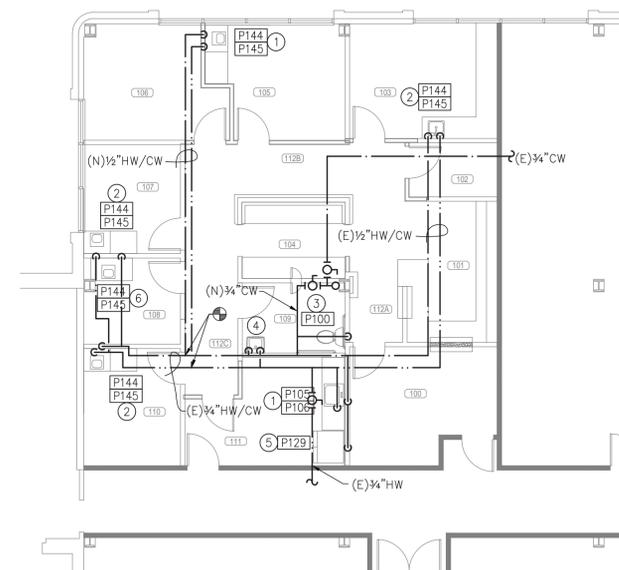
MATERIAL	SIZE	MAX HORIZONTAL SPACING	MAX VERTICAL SPACING
ABS	ALL	4'	10'
CAST IRON < 10'	ALL	5'	15'
CAST IRON - 10'	ALL	10'	15'
COPPER	< 1-1/2	6'	10'
COPPER	≥ 1-1/2	10'	10'
PEX	ALL	32"	10'
PVC	ALL	4'	10'

PIPE SIZE EQUIVALENTS

DESIGN SIZE	NOMINAL COPPER TUBE	NOMINAL PEX	NOMINAL BLACK IRON	CSST EHD
1/2"	1/2"	1/2"	1/2"	18
3/4"	3/4"	1"	3/4"	23
1"	1"	1 1/4"	1"	31
1 1/4"	1 1/4"	1 1/2"	1 1/4"	37
1 1/2"	1 1/2"	2"	1 1/2"	47
2"	2"	-	2"	60

PLUMBING DETAIL NOTES

- (N) 1/2" CW/ HW TO SINK.
- EXISTING SINK TO REMAIN. ADD ALTERNATE: REPLACE EXISTING SINK.
- CONNECT (N) WATER CLOSET TO EXISTING PLUMBING STUB.
- (E) LAVATORY TO REMAIN.
- (N) 3/8" CW TO ICE MAKER ROUGH-IN.
- CONNECT (N) SINK TO EXISTING PLUMBING STUB.



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



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: William Griffin
Date: Dec 23, 2019
2015 INTERNATIONAL CODES & 2017 NEC

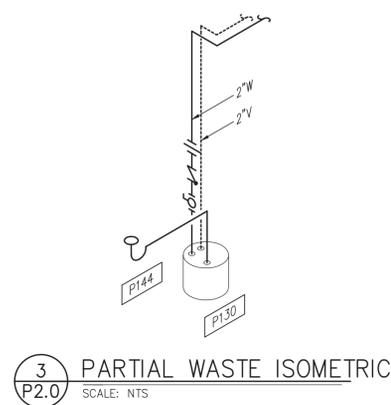
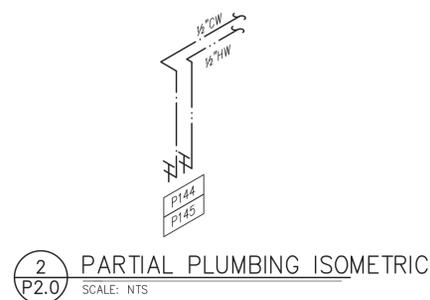


PROFESSIONAL ENGINEER

Room Schedule			
100	Waiting	107	Exam #2
101	Reception	108	Exam #3
102	Storage	109	Restroom
103	Procedure	110	Exam #4
104	MA Station	111	Break Room
105	Exam #1	112	Hallway
106	Office		

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

1411 South Potomac
 1411 South Potomac Street
 Aurora, CO 80012
 Suite 140

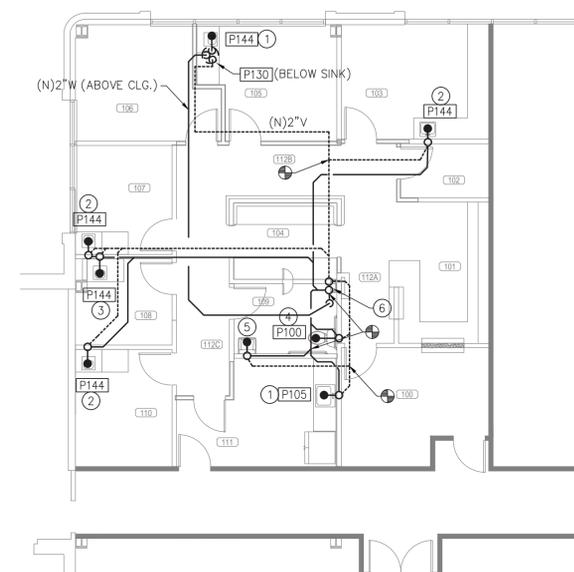


Provide self-closing or metered faucets in public restrooms.
2015 COA 22-326 (a)

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

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

- WASTE PIPING NOTES
- (N) 2"W/2"V TO (N) SINK
 - EXISTING SINK TO REMAIN. ADD. ALTERNATE: REPLACE EXISTING SINK.
 - CONNECT (N) SINK TO EXISTING WASTE STUB.
 - CONNECT (N) WATER CLOSET TO EXISTING WASTE STUB.
 - (E) LAVATORY TO REMAIN.
 - (E) 4"W/4"V RISERS.



1 WASTE PIPING PLAN
 SCALE: 1/8" = 1'-0"

Digitally signed by Brian Seyferth
 Date: 2019.12.17 10:06:56 -07'00'

Spec Suite 140

Dates of Record
 Project Start Date: #####
 Issued On: 17 DEC 2019
 Issued For: Tenant's Review & Approval; and Construction

City of Aurora Building Division
 Reviewed for Code Compliance
 Approved as Noted: William Griffin
 Date: Dec 23, 2019
 2015 INTERNATIONAL CODES & 2017 NEC

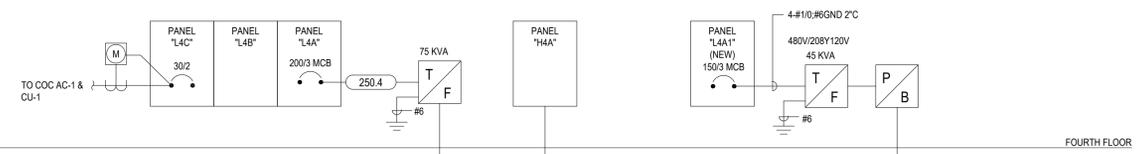
RSN: 1426505
 Permit #: 19-1741436 LT

Sheet Contents
 Project Team: LC/BS
 Project Number: 19495
 Sheet Mark: **P2.0**

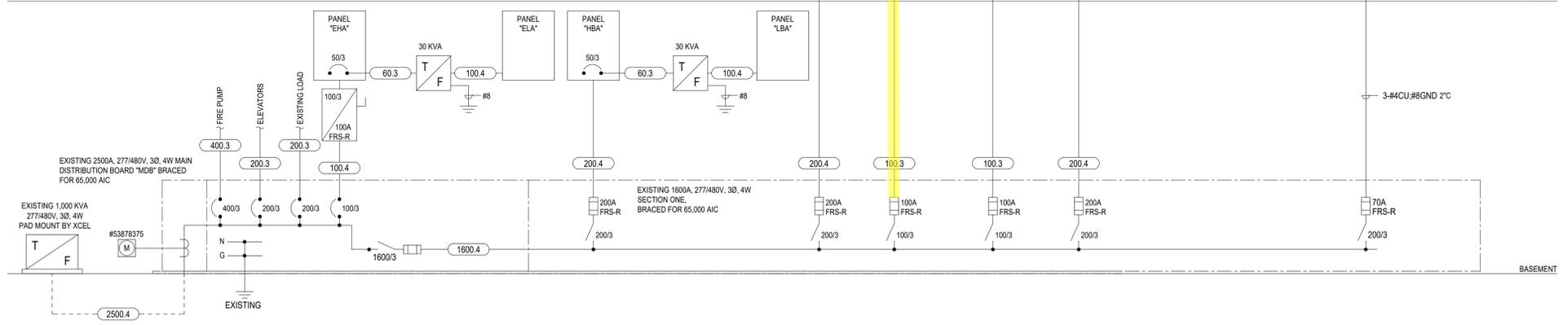
Legibly identify each breaker or switch for its use or purpose on the circuit directory in the panel/switchboard per 2017 NEC 408.4.

Table with columns: TYPE, DESCRIPTION, BKR, CIR, LOAD (VOLT AMPS)/PHASE, and DEMAND KVA. Includes a legend and notes.

Table with columns: TYPE, DESCRIPTION, BKR, CIR, LOAD (VOLT AMPS)/PHASE, and DEMAND KVA. Includes a legend and notes.



COPPER FEEDER SCHEDULE table with columns: FEEDER TYPE, RATING, # OF SETS, PHASE COND., NEUTRAL, GROUND, CONDUIT, SCHED 80 CONDUIT.



PARTIAL EXISTING ONE-LINE DIAGRAM

City of Aurora Building Division Reviewed for Code Compliance Approved as Noted: William Griffin Date: Dec 23, 2019

1411 South Potomac 1411 South Potomac Street Aurora, CO 80012 Suite 140



Spec Suite 140

Dates of Record Project Start Date: 10 Sep 2019

Sheet Contents One-Line Diagram Project Team BL/AW Project Number 19370 Sheet Mark E2.0

RSN: 1426505 Permit #: 19-1741436 LT

COMcheck Software Version 4.1.1.0
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2015 IECC
 Project Title: Alteration
 Project Type: Alteration
 Construction Site: Owner/Agent: Designer/Contractor: Bernard Lennon, Corey Electrical Engineering, 7822 S. Wheeling Court, Suite B, Englewood, CO 80112

Area Category	Floor Area (ft ²)	Allowed Watts / ft ²	Allowed Watts (B X C)
1-Healthcare Facility:Exam/Treatment	1600	1.66	2656
Total Allowed Watts =			2656

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps / Fixture	C # of Fixtures	D Watt.	E (C X D)
Healthcare Facility:Exam/Treatment (1600 sq.ft.) LED 1: B: Other:	1	25	26	650
Total Proposed Watts =				650

Interior Lighting PASSES

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Bernard Lennon - Project Engineer
 Name - Title Signature Date 12/10/2019

Project Title: Report date: 12/10/19
 Data filename: F:\DATA\ACAD\19 Archives\19300 - 19399\19370 Spec Suite 140\Design\Untitled.cck Page 1 of 5

COMcheck Software Version 4.1.1.0
Inspection Checklist
 Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]	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.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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

Project Title: Report date: 12/10/19
 Data filename: F:\DATA\ACAD\19 Archives\19300 - 19399\19370 Spec Suite 140\Design\Untitled.cck Page 2 of 5

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1 [EL18]	Occupancy sensors installed in required spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.1, C405.2.2 [EL23]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.2 [EL22]	Automatic controls to shut off all building lighting installed in all buildings.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3 [EL16]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3.1, C405.2.3.2 [EL20]	Primary sidehinged areas are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.3.1, C405.2.3.3 [EL21]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL4]	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.2.4 [EL8]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.3 [EL6]	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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

Project Title: Report date: 12/10/19
 Data filename: F:\DATA\ACAD\19 Archives\19300 - 19399\19370 Spec Suite 140\Design\Untitled.cck Page 3 of 5

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [F17]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4.1 [F18]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.2.5.1 [F16]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [F13]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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

Project Title: Report date: 12/10/19
 Data filename: F:\DATA\ACAD\19 Archives\19300 - 19399\19370 Spec Suite 140\Design\Untitled.cck Page 4 of 5

Project Title: Report date: 12/10/19
 Data filename: F:\DATA\ACAD\19 Archives\19300 - 19399\19370 Spec Suite 140\Design\Untitled.cck Page 5 of 5


City of Aurora Building Division
 Reviewed for Code Compliance
 Approved as Noted: **William Griffin**
 Date: **Dec 23, 2019**
 2015 INTERNATIONAL CODES & 2017 NEC



1411 South Potomac
 1411 South Potomac Street
 Aurora, CO 80012
 Suite 140



Spec Suite 140

Dates of Record
 Project Start Date: 10 Sep 2019
 Issued On: Issued For:
 11 Dec 2019 Tenant's Review & Approval, and Construction

Sheet Contents Comcheck
 Project Team BL/AW
 Project Number 19370
 Sheet Mark

E3.0