THE MEDICAL CENTER OF AURORA

CT / X-RAY INSTALLATION

1501 S. POTOMAC ST., AURORA, CO 80012

City of Aurora Building Division
Project: *New X-ray and remodel for CT*
Address: *REV-1501 S POTOMAC ST*
Occupancy Group: *I-2*
Construction Type: *I-A*
RSN: *1063633*
Permit: *15-1024782*

Only highlighted or clouded revisions are approved on this review. All previous comments apply.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Nov 17, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

RSN: *1063633*
Permit #: *15-1024782*

REVISION TO PERMIT # 15-976795

PROJECT TEAM

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MEDICAL CENTER OF AURORA
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AURORA, CO 80012
303.873.4895

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BPA
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spierce@bpasecurities.com

SIGNAGE

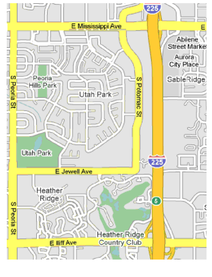
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GENERAL NOTES

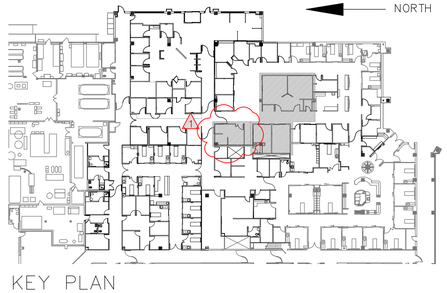
1. ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL LOCAL LAWS, ORDINANCES, RULES, REGULATIONS AND CODES OF THE GOVERNMENT AUTHORITIES HAVING JURISDICTION.
2. DIMENSIONS ARE TO FINISHED FACE OF GYPSUM WALL BOARD OR FACE OF EXISTING BASE BUILDING CONSTRUCTION, UNLESS NOTED OTHERWISE.
3. VERIFY ALL ROUGH-IN DIMENSIONS AND ELECTRICAL REQUIREMENTS FOR EQUIPMENT. COORDINATE OUTLET PLACEMENT WITH CASEWORK.
4. CONTRACTOR SHALL NOTIFY OWNER BEFORE COMMENCING WORK ON ANY ITEMS NOT CLEARLY DEFINED.
5. CHANGES OR DEVIATIONS FROM THE PLANS MADE WITHOUT THE CONSENT OF OWNER ARE UNAUTHORIZED.
6. G.C. TO PROVIDE SEALANT AROUND ALL PLUMBING FIXTURES, PIPING AND EQUIPMENT ABUTTING OR PENETRATING A WALL OR PARTITION. COLOR TO MATCH.
7. INSTALL FIRE-SAFING INSULATION, PUTTY OR FIRE-RATED INTUMESCENT-TYPE SEALANT (INCLUDING PIPE-SLEEVES, DAMMING BOARDS AND ACCESSORIES) AROUND ALL PENETRATIONS THROUGH FIRE-RATED PARTITIONS, FLOORS AND WALLS PER MANUFACTURER'S TESTED INSTALLATION FOR APPLICATION AND REQUIRED RATING.
8. ALL ELECTRICAL AND MECHANICAL DEVICES OR APPLIANCES INSTALLED ON THIS PROJECT SHALL BE UL LISTED.
9. WHERE REMODELING IS TO OCCUR, THE CONTRACTOR SHALL PRESENT A WORKABLE PHASING PLAN TO THE OWNER PRIOR TO COMMENCEMENT OF WORK WITHIN THE AFFECTED AREA. CONTRACTOR SHALL ALSO KEEP THE OWNER APPRISED OF ANY VARIATIONS IN PHASING PLAN THAT WILL AFFECT THE OPERATION OF THE OWNER'S BUSINESS.
10. CONTRACTOR SHALL PRESENT A WORKABLE PLAN TO MAINTAIN SECURITY AND SAFETY OF THE OWNER'S BUSINESS FOR AREAS AFFECTED BY CONSTRUCTION DURING THE ENTIRE PHASE OF CONSTRUCTION.
11. CONTRACTOR SHALL MINIMIZE DISRUPTION BY CONSTRUCTION WORK TO THE ONGOING BUSINESSES AND TRAFFIC IN THE VICINITY. CONSTRUCTION AREA SHALL BE ENCLOSED TO KEEP OTHER AREAS FREE OF DUST, DEBRIS & NOISE.
12. EMPLOYEES OR SUBCONTRACTORS OF THE GENERAL CONTRACTOR SHALL REFRAIN FROM PROFANE OR OFFENSIVE LANGUAGE WHILE ON THE PROJECT SITE AND SHALL REFRAIN FROM USING LOUD RADIOS OR OTHER MUSIC PLAYERS WHILE OWNERS AND/OR DESIGN TEAM IS ONSITE.
13. GENERAL CONTRACTOR SHALL COORDINATE APPROPRIATE PARKING ACCOMMODATIONS FOR EMPLOYEE AND SUBCONTRACTOR VEHICLES WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
14. G.C. SHALL COORDINATE APPROPRIATE CONSTRUCTION STAGING AREAS AND TRASH REMOVAL. G.C. WILL BE RESPONSIBLE FOR OBTAINING A DUMPSTER AND TRASH PICKUP FROM JOB SITE ON A REGULAR BASIS.
15. SUBSTITUTIONS OF SPECIFIED PRODUCTS MAY NOT OCCUR UNLESS SPECIFICALLY NOTED ON DRAWINGS THAT "OR EQUAL" IS ACCEPTABLE. OWNER APPROVAL IS REQUIRED FOR ALL SUBSTITUTIONS CONSIDERED BY G.C. TO MEET "OR EQUAL" REQUIREMENTS PRIOR TO BID SUBMISSION/INSTALLATION.
16. APPROVAL OF SHOP DRAWINGS DOES NOT IMPLY APPROVAL OF A SUBSTITUTED COLOR, SIZE OR FUNCTION OF AN ITEM SPECIFIED ON THESE CONTRACT DOCUMENTS UNLESS ATTENTION IS SPECIFICALLY CALLED TO THE REVISION AND APPROVAL IS GIVEN.
17. G.C. SHALL KEEP TOILET FACILITIES ON SITE CLEAN AND USABLE.
18. NO PLUMBING CLEAN-OUTS SHALL EXTEND INTO ROOM MORE THAN IS MINIMALLY REQUIRED. NO PIPE SHALL BE EXPOSED AND THERE SHALL BE ESCUTCHEON PLATES AT ALL GYPSUM WALL BOARD PENETRATIONS.
19. ALL POWER/DATA OUTLETS, LIGHT SWITCHES & COVER PLATES TO BE CHANGED OUT TO WHITE WHERE NEEDED WITHIN THE SCOPE OF CONSTRUCTION.
20. GENERAL CONTRACTOR SHALL PROVIDE FIRE SPRINKLER DESIGN/BUILD AS PART OF SCOPE OF WORK. ALL SPRINKLER HEADS SHALL BE FLUSH MOUNTED CONCEALED STYLE TO MATCH HOSPITAL STANDARDS. SPRINKLER HEADS SHALL BE PLACED IN CENTER OF AFFECTED CEILING TILE.
21. STEEL FRAMING REQUIRED FOR ALL WALLS, SOFFITS & CASEWORK BACKING/SUPPORTS THROUGHOUT.
22. HOSPITAL WILL MANAGE THE LISTED VENDORS IN THEIR RESPECTIVE FIELDS AS NOTED ON THIS COVER SHEET. GENERAL CONTRACTOR TO NOT INCLUDE THEIR ASSOCIATED WORK IN THE SCOPE OF PROPOSAL.
23. GENERAL CONTRACTOR NEEDS TO BE FAMILIARIZED WITH EXISTING CONDITIONS TO PROPERLY ACCOUNT FOR THE NECESSARY COSTS ASSOCIATED WITH CONSTRUCTION.
24. NO CHANGE ORDERS WILL PERMITTED UNLESS OWNER INITIATED.
25. GENERAL CONTRACTOR TO REVIEW & INCLUDE ANY AND ALL NOTES AND LEGENDS CONTAINED WITHIN THE CONSTRUCTION DOCUMENT SET.

VICINITY MAP

MEDICAL CENTER OF
AURORA, SOUTH CAMPUS



POTOMAC ST.



KEY PLAN

DRAWING INDEX

ARCHITECTURAL

A0.0	COVER SHEET
A1.10	DEMOLITION PLAN
A1.11	CEILING DEMOLITION PLAN
A1.12	FLOOR / FINISHES / SCHEDULES
A1.13	CT ENLARGED PLAN
A1.14	X-RAY ENLARGED PLAN
A1.15	ENLARGED CT RCP
A1.16	ENLARGED X-RAY RCP
A1.40	ELEVATIONS
A1.50	SECTIONS
A1.51	PARTITION CROSS SECTIONS

SEMI-PRIVATE EXAM ROOM SEPARATION
ARCHITECTURAL SET

A2.10	DEMOLITION PLAN
A2.11	FLOOR PLAN / DIMENSION TAG / SCHEDULE
A2.12	CEILING DEMOLITION PLAN / RCP
A2.40	ELEVATIONS / SECTIONS

MEP ENGINEER SET

M-0.0	MECHANICAL LEGEND, GENERAL NOTES
M-1.0	MECHANICAL PLANS, DEMOLITION & NEW
M-2.0	MECHANICAL SPECIFICATIONS
P-0.0	PLUMBING LEGEND, GENERAL NOTES
P-1.0	PLUMBING PLANS, DEMOLITION & NEW
P-2.0	MED GAS PLANS, DEMOLITION & NEW
E-0.0	ELECTRICAL LEGEND & GENERAL NOTES
E-1.0	ELECTRICAL PLANS, DEMOLITION & NEW
E-2.0	ELECTRICAL DETAILS
E-3.0	ELECTRICAL SCHEDULES

MECHANICAL, PLUMBING, ELECTRICAL

M-0.0	MECHANICAL LEGEND, GENERAL NOTES
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M-1.1	HVAC PIPING DEMOLITION PLAN
M-2.0	HVAC PLAN
M-2.1	HVAC PIPING PLAN
M-3.0	MECHANICAL DETAILS
M-4.0	MECHANICAL SCHEDULES & CONTROLS
MP-0.0	MECHANICAL & PLUMBING SPECIFICATIONS
P-0.0	PLUMBING LEGEND, GENERAL NOTES
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P-2.2	MED GAS PLAN
P-3.0	PLUMBING SCHEDULES & DETAILS
E-0.0	ELECTRICAL LEGEND & GENERAL NOTES
E-1.0	POWER & SPECIAL SYSTEMS DEMO PLAN
E-1.1	LIGHTING DEMOLITION PLAN
E-2.0	POWER & SPECIAL SYSTEMS PLAN
E-2.1	LIGHTING PLAN
E-3.0	ELECTRICAL SCHEDULES
E-4.0	ONELINE/CURRENT CALCULATIONS
E-5.0	ELECTRICAL DETAILS

STRUCTURAL

S-1.0	X-RAY SUPPORT FRAMING

GENERAL ELECTRIC SITE SPECIFIC PLANS ATTACHED TO BACK OF DRAWING SET

CODE INFORMATION SUMMARY

PROJECT NAME: CT X-RAY INSTALLATION

PROJECT ADDRESS: 1501 S. POTOMAC ST.
AURORA, CO 80012

CONSTRUCTION TYPE: I-A

OCCUPANCY CLASSIFICATION: GROUP I-2 HOSPITAL

AFFECTED SQUARE FOOTAGE: 1,225 SF (ORIGINAL SCOPE) + 322 SF (ADDITIONAL AREA) = 1,547 SF (TOTAL)

OCCUPANT LOAD FACTOR: 240 SF/OCC (INPATIENT)

OCCUPANT LOAD: 1,547 SF/240 = 6 OCCUPANTS (EXISTING TO REMAIN UNCHANGED)

SPRINKLER SYSTEM: EXISTING TO REMAIN

APPLICABLE CODES: 2009 INTERNATIONAL BUILDING CODE (IBC)
2009 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2009 INTERNATIONAL MECHANICAL CODE (IMC)
2012 INTERNATIONAL PLUMBING CODE (IPC)
2009 INTERNATIONAL FIRE CODE (IFC)
2014 NATIONAL ELECTRICAL CODE (NEC)
2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
CHAPTER 22 BUILDINGS & REGULATIONS: THE AURORA BUILDING & ZONING CODES
CHAPTER 66 FIRE PREVENTION & PROTECTION REGULATIONS: THE AURORA BUILDING & ZONING CODES & ICC/ANSI A117.1 - 2003

EXITS: 3 EXITS ON GROUND LEVEL
8' EXIT ACCESS CORRIDORS

FIRE PROTECTION: EXISTING BUILDING IS FULLY SPRINKLED. AREAS AFFECTED BY WORK UNDER THIS CONTRACT SHALL MAINTAIN FIRE PROTECTION SYSTEM AND BE FULLY SPRINKLED ON COMPLETION

CODE NOTES

A. EXISTING SHAFTS, STAIRS, AND ELEVATORS ARE TO REMAIN WITHOUT MODIFICATION.

B. FIRE ALARM AND SPRINKLER SYSTEMS WILL BE MODIFIED TO ACCOMMODATE NEW PLAN.

C. FIRE RATED WALL ASSEMBLIES TO BE MODIFIED OR CONSTRUCTED ACCORDING TO PLANS & PER AHJ CODE REQUIREMENTS.

DWG SHEET SIZE: 36" x 24"

The Medical Center of Aurora
Health ONE

ED RENOVATION

MEDICAL CENTER OF AURORA

1501 SOUTH POTOMAC STREET
AURORA, COLORADO 80012

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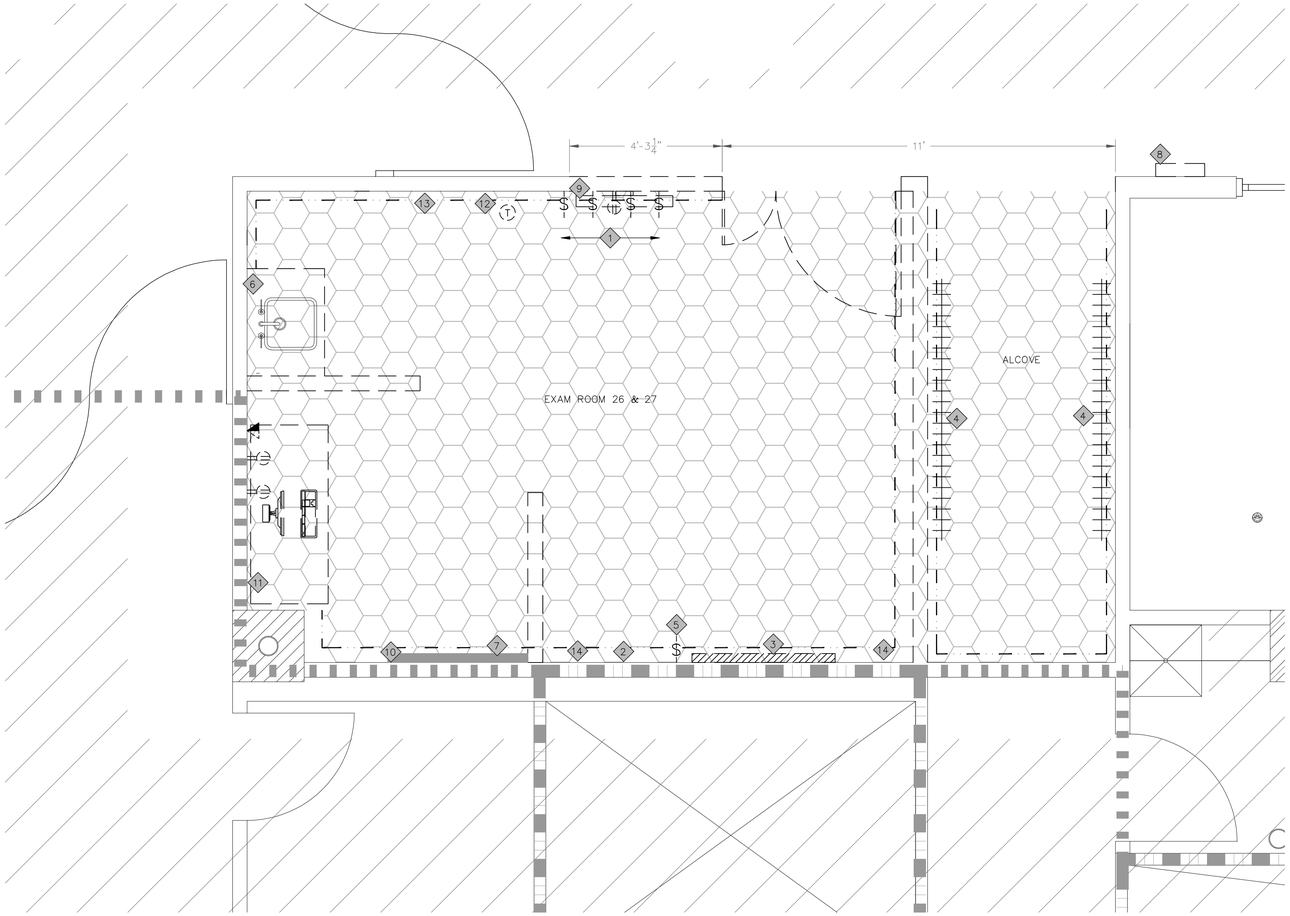
STATE OF COLORADO
TOM THOMPSON
305692
09.30.15
LICENSED ARCHITECT

PROJECT NO.: 14-04

DRAWN BY: TH BM
CHECKED BY: TT
SCALE:
DATE: 06/10/2015
ISSUED FOR: CONSTRUCTION
REVISIONS:
1 09/30/2015

SHEET TITLE:
COVER SHEET

SHEET NO.:
A-0



DEMOLITION LEGEND:	
	REMOVE WALL, CASEWORK, EQUIPMENT & FIXTURES AS INDICATED BY DASHED LINE
	EXISTING ELEMENT TO REMAIN
	REMOVE EXISTING FLOORING AS INDICATED BY HATCH PATTERN. PREP SURFACE FOR NEW SHEET VINYL FLOORING
	REMOVE & SALVAGE EXISTING DOOR, FRAME & HARDWARE FOR OWNER
	REMOVE & DISPOSE OF EXISTING WALL PROTECTION
	EXISTING POWER OUTLET; TERMINATE, SAFE-OFF AND/OR PREP FOR NEW LOCATION
	EXISTING DATA/PHONE; TERMINATE, SAFE-OFF AND/OR PREP FOR NEW LOCATION
T	EXISTING THERMOSTAT TO BE RELOCATED
S	EXISTING LIGHT SWITCH; TERMINATE, SAFE-OFF AND/OR PREP FOR NEW LOCATION
	EXISTING HEADWALL GASES, OUTLETS & WALL MOUNTED EQUIPMENT TO BE RELOCATED
	EXISTING PLUGMOLD W/ RECEPTACLES TO BE REMOVED, TERMINATE POWER CONNECTION
	EXISTING TV TO BE RELOCATED
	OUT OF SCOPE
	EXISTING 1 HR FIRE/SMOKE BARRIER TO REMAIN
	EXISTING 2 HR FIRE WALL TO REMAIN

KEY NOTES	
1	REMOVE, SAFE-OFF LIGHT SWITCHES FOR NEW LOCATIONS, RE: RCP / TERMINATE PWR OUTLET
2	REMOVE & SALVAGE EXISTING WALL CHANNEL FOR RELOCATION, SEE HEADWALL ELEVATION; PATCH & REFINISH WALL
3	REMOVE HEADWALL UNIT, PRESERVE CONNECTIONS, SALVAGE WALL ASSEMBLY FOR RELOCATION; RE: FLOOR PLAN. REPAIR/PATCH/PAINT WALL
4	REMOVE & SALVAGE EXISTING PLUG MOLDING STRIP FOR OWNER. SAFE OFF & TERMINATE ELECTRICAL CONNECTION
5	REMOVE & PRESERVE CONNECTION OF LIGHT SWITCH FOR RELOCATION TO OF NEW HEADWALL UNIT
6	REMOVE & DISPOSE OF BACK SPLASH & COUNTERTOP. EXISTING CASEWORK BASE CABINET & SINK TO REMAIN
7	EXISTING HEADWALL UNIT AND UTILITY CONNECTIONS TO REMAIN
8	DISCONNECT & RELOCATE EXISTING AIR PRESSURE MONITOR TO NEW ISOLATION ROOM 25; RE: FLOOR PLAN
9	REMOVE TV & WALL MOUNT, SALVAGE FOR OWNER FOR RELOCATION, TERMINATE & SAFE-OFF POWER, REMOVE POWER & CABLE OUTLET BOXES, PATCH & PAINT
10	REMOVE BLANK COVER PLATE ABOVE HEADWALL UNIT, PATCH & PAINT
11	REMOVE WALL HUNG FORM HOLDER UNIT, PATCH & PAINT
12	EXISTING TV POWER OUTLET, CABLE RECEPTACLE AND WALL MOUNT TO REMAIN FOR NEW PATIENT ROOM
13	REMOVE EXISTING BLANK COVER PLATES & DATA RECEPTACLE. PATCH FOR NEW ACROVYN WALL PROTECTION
14	EXISTING EMERGENCY POWER & DATA OUTLETS TO REMAIN FOR NEW PATIENT ROOM. REMOVE BLANK COVER PLATE & PATCH WALL FOR NEW ACROVYN WALL PROTECTION

DEMOLITION GENERAL NOTES	
A.	REMOVE ALL ANCILLARY WALL HUNG ITEMS U.O.N. / SALVAGE FOR OWNER OR RELOCATION.
B.	WHERE OUTLETS, MOUNTING BRACKETS, EQUIPMENT, ETC., HAVE BEEN REMOVED, PATCH WALL & SKIM AS REQUIRED FOR NEW LEVEL AND FINISH.
C.	COORDINATE WITH THE OWNER ANY ITEMS TO BE STORED AND/OR RELOCATED.
D.	EXIT EGRESS MUST BE MAINTAINED FOR ALL OCCUPIED AREAS OF THE BUILDING THROUGHOUT CONSTRUCTION.
E.	REPLACE OR REPAIR ANY EXISTING TO REMAIN FINISHES WHICH ARE DAMAGED DURING DEMOLITION (I.E. - CEILING GRID, CEILING TILE, WALL COVERING, FLOOR COVERINGS, ETC.)
F.	REMOVE ALL NON-FUNCTIONING, BLANK OUTLET COVER PLATES AND WALL BOXES. PATCH & PAINT WALL
G.	ALL WALLS IN SCOPE OF PROJECT TO BE PREPPED FOR NEW PAINT, SKIM COAT WALLS AS NEEDED.
H.	LIGHT SWITCHES, DATA & POWER OUTLETS TO REMAIN, CHANGE DEVICES TO WHITE

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Nov 17, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

RSN: *1063633*
Permit #: *15-1024782*

REVISION TO PERMIT # 15-976795

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NORTH

DEMOLITION PLAN
1/2" = 1'

DWG SHEET SIZE: 36" x 24"

The Medical Center of Aurora
Health ONE

DEMOLITION PLAN

MEDICAL CENTER OF AURORA

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AURORA, COLORADO 80012

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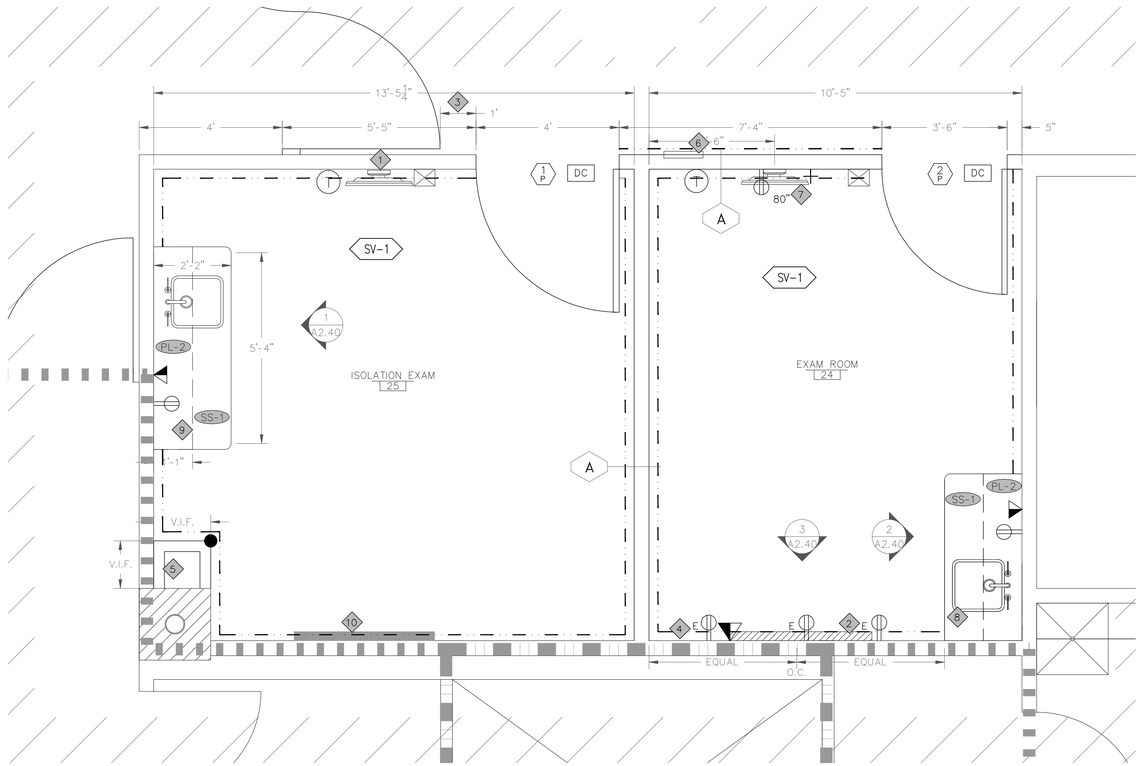
STATE OF COLORADO
TOM THOMPSON
305932
01.30.15
LICENSED ARCHITECT

PROJECT NO.: 14-04

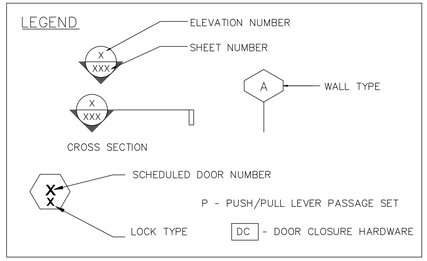
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CHECKED BY: TT
SCALE: 1/2" = 1'
DATE: 9/30/2015
ISSUED FOR: CONSTRUCTION
REVISIONS:

SHEET TITLE:
COVER SHEET

SHEET NO.:
A2.10



LEGEND



PATIENT CARE ITEMS (INCLUDING BUT NOT LIMITED TO)

1. SHARP CONTAINERS
2. PPE BOXES
3. PAPER TOWEL, SOAP, GEL DISPENSER
4. IV BAG HOOKS
5. TELEVISION
6. GLOVE DISPENSERS
7. DRY ERASE BOARD
8. BED BOARDS
9. EMERGENCY MEDICAL BOX
10. CLOCKS

LEGEND:	
+	NEW TELEVISION CABLE OUTLET. MOUNT @ 6'-6" A.F.F., O.C.
SV-1	SHEET VINYL, OPTIMA RAW IVORY W/6" COVED BASE.
	NEW ACROVYN WALL PROTECTION. INSTALL T.O. @ 54" A.F.F.
	FULL HEIGHT ACROVYN CORNER GUARD
	NEW OR RELOCATED POWER OUTLET (E-EMERGENCY POWER)
	NEW OR RELOCATED DATA/PHONE
T	NEW OR RELOCATED THERMOSTAT
$	NEW OR RELOCATED LIGHT SWITCH
XX-1	CASEWORK FINISHES SELECTIONS
	NEW OR RELOCATED HEADWALL GASES, OUTLETS & WALL PLATE
	NEW OR RELOCATED TV / MOUNT TV @ 7'-0" O.C.
	HAND GEL SANITIZER DISPENSER
	EXISTING 1 HR FIRE/SMOKE BARRIER TO REMAIN
	EXISTING 2 HR FIRE WALL TO REMAIN

FINISH SPECIFICATIONS

FLOORING

SV-1: SHEET VINYL TARKETT OPTIMA COLOR: 862 RAW IVORY W/6" COVED BASE W/ MATCHING WELDING ROD

B-2: 6" COVED BASE FINISHED WITH J-TRIM JOHNSONITE OPTIMA RAW IVORY

WALLS

P-1: (FIELD COLOR ROOM AREA) BENJAMIN MOORE ULTRASPEC, SEMI-GLOSS INTERIOR PAINT, 2 COATS ON WALLS. COLOR: 958 (OCEAN BEACH)

P-2: (DOOR FRAMES) BENJAMIN MOORE ULTRASPEC, SEMI-GLOSS INTERIOR PAINT, 2 COATS. COLOR: HC-45 (SHAKER BEIGE).

WP-1: 54" AFF (48" SHEETS) ACROVYN WALL PANELING -DESERT SAND

CASEWORK

SS-1: CORIAN, PRIVATE COLLECTION COLOR: CLAM SHELL

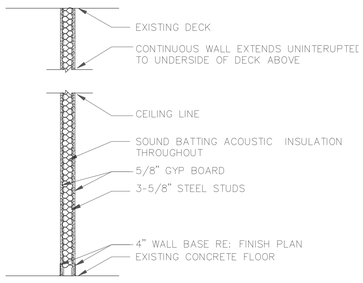
PL-2: APPLY TO ALL VERTICAL PANEL SURFACES. WILSONART LAMINATE COLOR: SHAKER CHERRY, 7935-07. USE 3MM EDGING TO MATCH.

* USE WHITE MELAMINE FOR ALL INTERIOR CABINETS AND DRAWER SURFACES.

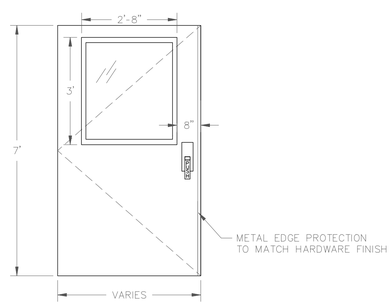
DOOR SCHEDULE									
DOOR NO.	DOOR SIZE			TYPE/LABEL	LOCK TYPE	HARDWARE	FRAME	FRAME DEPTH	REMARKS
	WIDTH	HEIGHT	DEPTH						
1	4'-0"	7'-0"	1-3/4"	A/NON RATED	P	SATIN NICKEL	L.H.-H.M.	4-7/8"	SHAKER CHERRY ACROVYN DOOR WITH STAINLESS STEEL EDGE. DOOR W/ SITE GLASS
2	3'-6"	7'-0"	1-3/4"	A/NON RATED	P	SATIN NICKEL	L.H.-H.M.	4-7/8"	SHAKER CHERRY ACROVYN DOOR WITH STAINLESS STEEL EDGE. DOOR W/ SITE GLASS

KEY NOTES

1	USE EXISTING TV CABLE & POWER OUTLETS FOR RELOCATED TV
2	INSTALL HEAD WALL PANEL & OUTLETS @ 54" A.F.F. ON CENTER
3	ALLOW MINIMUM OF 12" CLEARANCE FROM NEW DOOR OPENING TO DOOR SWING LIMIT OF EXISTING CORRIDOR DOUBLE DOORS
4	RELOCATED NURSE CALL & CODE BLUE
5	FURR-OUT COLUMN AS NEEDED TO ACCOMMODATE NEW 12x10, 400 CFM LOW AIR RETURN
6	INSTALL SALVAGED AIR PRESSURE MONITOR FOR ISOLATION ROOM 25
7	NEW TV & WALL MOUNT, OWNER SUPPLIED/CONTRACTOR INSTALLED
8	NEW PLUMBING W/ FIXTURE LOCATION, 19" STAINLESS STEEL SINK W/ GOOSENECK FAUCET & PADDLE HANDLES
9	CONFIRM EXISTING SOFFIT ABOVE NEW UPPER CABINETS HAS THE NECESSARY DEPTH FOR INSTALLATION
10	EXISTING HEADWALL UNIT & UTILITY CONNECTIONS TO REMAIN



WALL TYPE "A"
SCALE: 1/2" = 1'



DOOR TYPE "A"
SCALE: 1/2" = 1'

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Permit #: *15-1024782*

GENERAL NOTES

A.	INSTALL NEW ACROVYN WALL PROTECTION ON ALL PATIENT ROOM WALLS.
B.	REPLACE NORMAL POWERED, EXISTING WALL OUTLET RECEPTACLES & SWITCHES AND THEIR ASSOCIATED COVER PLATES TO WHITE.
C.	SPECIFY SATIN NICKEL HARDWARE FOR CASEWORK.
D.	APPLY NEW PAINT TO ALL WALLS.
E.	PROVIDE 4" BACKSPLASH OF LIKE MATERIAL AT ALL LOCATIONS WHERE COUNTERS MEET WALLS.
F.	INSTALL FACTORY CUT ACROVYN 48" SHEETS AT 54" AFF (ALLOWING FOR 6" WALL BASE) HEIGHT EDGE WALL PANEL ON 3/8" BACKER BOARD - ADHESIVE ATTACHED (NOTE ADHESIVE TO MEET GS-36 LOW VOC REQUIREMENTS). COLOR: "DESERT SAND". WAINSCOTT TRIM @ TOP, ACROVYN TRIM @ BOTTOM AND SEAMS AND AT END PANELS.
G.	SUPPLY NEW CABINET LOCKS AT LOCATIONS WHERE SHOWN ON ELEVATIONS
H.	GENERAL CONTRACTOR TO ADD ALLOWANCE FOR MOUNTING PATIENT CARE ITEMS FOR ALL EXAM/TREATMENT ROOMS
I.	ALL CABINETS TO HAVE ADJUSTABLE SHELVING AS SHOWN IN ELEVATIONS/CROSS SECTIONS
J.	TIE NEW LOW AIR RETURN IN EXAM ROOM 25 TO THE EXISTING ROOF TOP PPE EXHAUST FAN, EF-97-S1308. TERMINATE DUCT CONNECTION TO EXISTING ISOLATION EXAM ROOM

NORTH

FLOOR/SCHEDULE/FINISHES PLAN
1/2" = 1'

DWG SHEET SIZE: 36" x 24"

The Medical Center of Aurora
Health ONE

EXAM ROOM SEPARATION

MEDICAL CENTER OF AURORA
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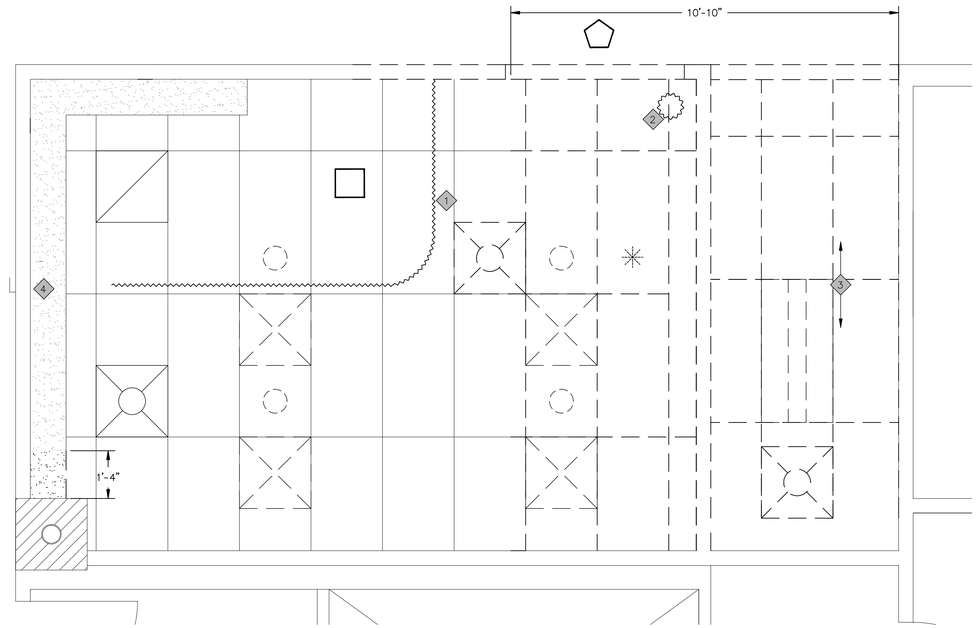
STATE OF COLORADO
TOM THOMPSON
305892
9-30-15
LICENSED ARCHITECT

PROJECT NO.: 14-04

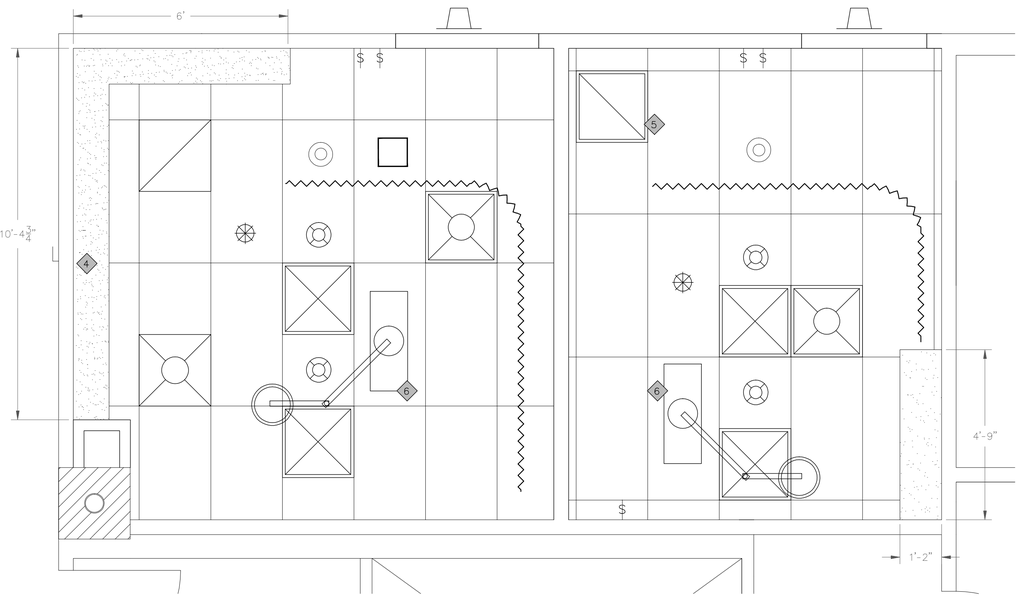
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CHECKED BY: TT
SCALE: 1/2" = 1'
DATE: 9/30/2015
ISSUED FOR: CONSTRUCTION
REVISIONS:

SHEET TITLE:
FLOOR/DIMENSION PLAN SCHEDULE

SHEET NO.:
A2.11



CEILING DEMOLITION PLAN
1/2" = 1'



REFLECTED CEILING PLAN
1/2" = 1'

DEMOLITION LEGEND:	
	EXISTING LIGHT FIXTURE TO BE REMOVED & SALVAGED FOR RELOCATION
	EXISTING 2' X 2' SUPPLY DIFFUSER TO BE REMOVED & SALVAGED FOR RELOCATION
	EXISTING 2' X 2' LIGHT FIXTURE TO REMAIN
	EXISTING 2' X 2' RETURN AIR REGISTER TO REMAIN
	EXISTING 2' X 2' SUPPLY DIFFUSER TO REMAIN
	EXISTING 2' X 4' LIGHT FIXTURE TO BE REMOVED & SALVAGED FOR OWNER
	CEILING MOUNTED SECURITY CAMERA
	EXISTING CAN LIGHT FIXTURE TO BE REMOVED & SALVAGED FOR RELOCATION
	EXISTING CEILING MOUNTED NURSE CALL LIGHT TO BE REMOVED & SALVAGED FOR RELOCATION
	EXISTING SPRINKLER HEAD TO BE RELOCATED AND/OR TERMINATED
	EXISTING SPRINKLER HEAD TO REMAIN
	EXISTING SMOKE DETECTOR TO REMAIN
	EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM TO REMAIN. REMOVE & DISPOSE OF ALL EXISTING CEILING TILE WITHIN THE PROJECT SCOPE
	EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM TO BE REMOVED

CEILING LEGEND:	
	CEILING MOUNTED, OVERHEAD EXAM LIGHT - HOSPITAL SUPPLIED FIXTURES
	NEW RECESSED, DIMMABLE CAN DOWNLIGHT
$	NEW LIGHT SWITCH/DIMMER SWITCH LOCATIONS.
	NEW OR RELOCATED CEILING MOUNTED EXECUTONE NURSE CALL DOME LIGHT.
	NEW OR RELOCATED SMOKE DETECTOR
	SPRINKLER HEADS
	SUSPENDED ACOUSTICAL CEILING SYSTEM. NEW SYSTEM ONLY REQUIRED WHERE CEILING IS AFFECTED BY NEW CONSTRUCTION.
	GYPSUM BOARD CEILING OR SOFFIT TO TOP OF CABINET (OR AS NOTED) RE: ELEVATIONS.
	NEW OR RELOCATED AIR SUPPLY REGISTER
	NEW OR RELOCATED RETURN AIR REGISTER
	NEW 2' X 2' LIGHT FIXTURE, PHILLIPS DAY-BRITE SOFTRACE
	CONTRACTOR INSTALLED PRIVACY CURTAIN TRACK

KEY NOTES	
1	REMOVE & SALVAGE CURTAIN & CEILING TRACK FOR RELOCATION; RE: RCP
2	HOSPITAL PROVIDED VENDOR TO REMOVE, TERMINATE & SALVAGE FOR OWNER EXISTING CEILING MOUNTED SECURITY CAMERA
3	RAISE EXISTING CEILING @ 8'-0" A.F.F. TO MATCH NEW CEILING IN PATIENT ROOM EXPANSION
4	EXISTING SOFFIT TO REMAIN
5	INSTALL NEW RETURN REGISTER
6	INSTALL NEW CEILING MOUNTED EXAM LIGHT SALVAGED FROM OWNER STOCK

GENERAL NOTES	
A.	CONTRACTOR TO PROVIDE LICENSED FIRE ALARM/FIRE SPRINKLER VENDOR FOR REQUIRED RELOCATION AND INSTALLATION OF NEW DEVICES
B.	WHERE POSSIBLE, PRESERVE EXISTING SMOKE DETECTORS & STROBE UNITS AND REINSTALL AT NEAREST CONVENIENT LOCATION.
C.	ACCOUNT FOR NEW THERMOSTAT LOCATIONS & ADJUST VAVs AND/OR DUCT FEEDS AS NECESSARY.

REVISION TO
PERMIT # 15-976795

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *Y. Munoz*
Date: *Nov 17, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

RSN: *1063633*
Permit #: *15-1024782*

DWG SHEET SIZE: 36" x 24"

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STATE OF COLORADO
TOM THOMPSON
305692
9-30-15
LICENSED ARCHITECT

PROJECT NO.: 14-04

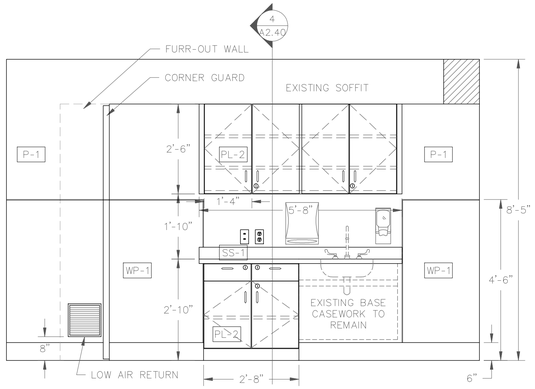
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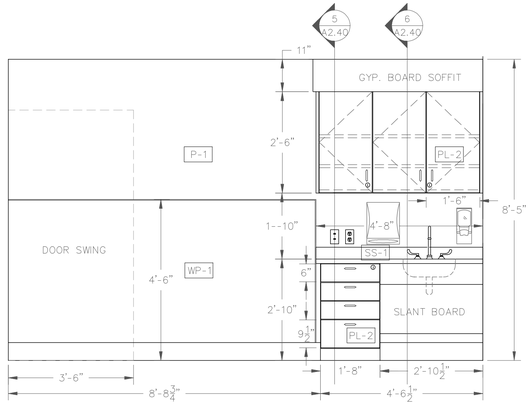
CEILING DEMO PLAN
REFLECTED CEILING PLAN

SHEET NO.:

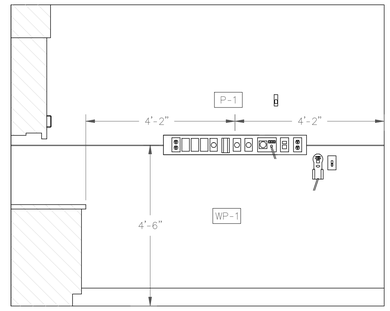
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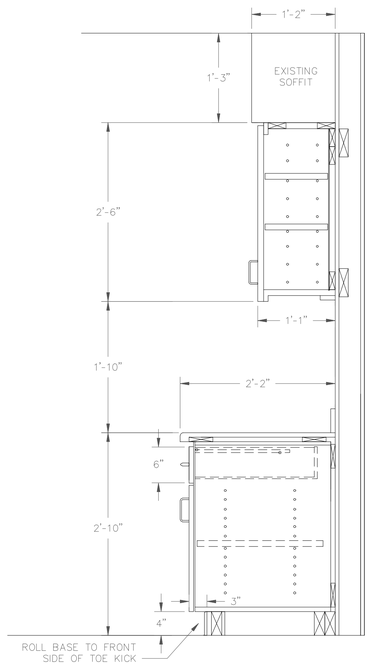
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SCALE: 1/2" = 1'



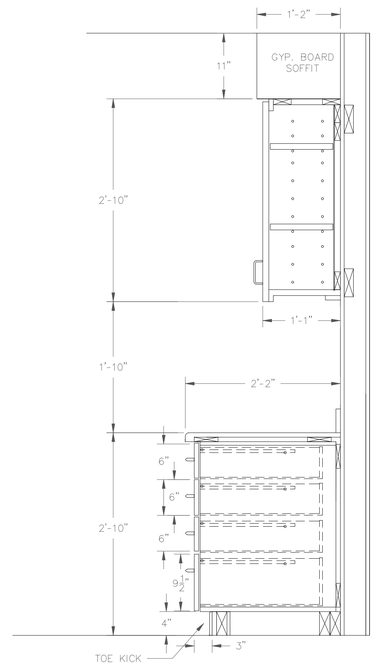
2 A2.40 EXAM RM 24
SCALE: 1/2" = 1'



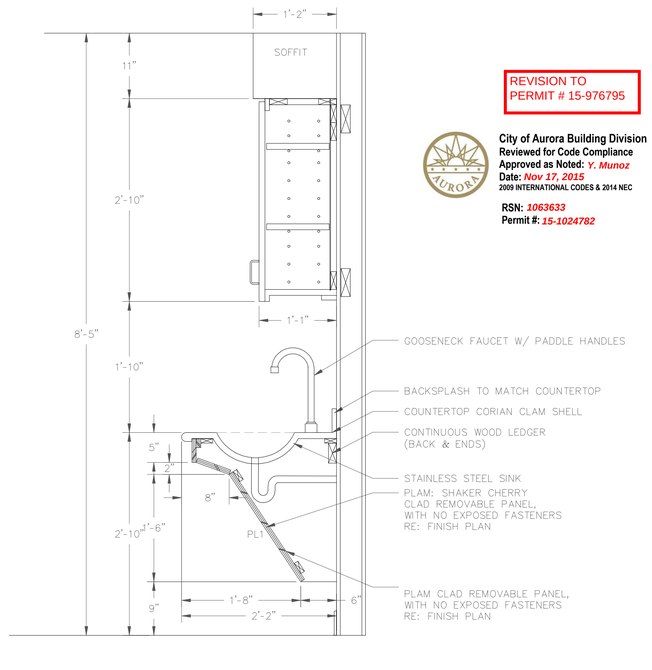
3 A2.40 EXAM RM 24
SCALE: 1/2" = 1'



4 A2.40 EXAM ROOM TYP
SCALE: 1" = 1'



5 A2.40 EXAM ROOM TYP
SCALE: 1" = 1'



6 A2.40 EXAM ROOM TYP
SCALE: 1" = 1'

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TOM THOMPSON
305892
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SHEET TITLE:

ELEVATIONS / SECTIONS

SHEET NO.:

A2.40

PLUMBING SPECIFICATIONS

THIS SHEET SPECIFICATION SHALL GOVERN IN LIEU OF SEPARATE BOUND SPECIFICATIONS. UPON ISSUANCE SHOULD CONFLICTS ARISE BETWEEN THE SHEET AND THE BOUND SPECIFICATION THEN THE MORE STRINGENT OF THE TWO SHALL PREVAIL.

1. BASIC REQUIREMENTS
   - A. PLUMBING DESIGN SHALL CONFORM TO 2009 INTERNATIONAL PLUMBING CODE. PROJECT SHALL BE COORDINATED WITH THE EXISTING BUILDING SERVICES AND SHALL INCLUDE ALL ITEMS NECESSARY FOR COMPLETE AND FULLY OPERATIONAL TENANT PLUMBING SYSTEMS. MAKE CONNECTIONS TO AND EXTEND SYSTEMS INSTALLED BY OTHERS AND/OR FURNISHED BY OTHERS. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM WHETHER OR NOT SPECIFICALLY SPECIFIED AND/OR SHOWN ON THE PLANS.
   - B. DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS BY OTHERS FOR DIMENSIONS AND FOR ESTIMATING DISTANCES. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS RELATING TO THE JOB WETHER OR NOT INDICATED ON THESE DRAWINGS.
   - C. ANY SCALE, DIMENSION OR QUANTITIES SHOWN ON THE DRAWINGS ARE FOR ENGINEERING CALCULATION PURPOSES ONLY. THE PLUMBING CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ESTIMATING AND DETERMINING ALL DISTANCES AND QUANTITIES RELATED TO THE PROJECT. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS BY OTHERS AND VERIFY EXISTING CONDITIONS ON SITE FOR ALL ESTIMATING PURPOSES.
   - D. COORDINATE WITH OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE. WHERE CROWDED CONDITIONS EXIST, PREPARE COORDINATION DRAWINGS SHOWING ALL TRADE CONFLICTS AND SUBMIT TO ARCHITECT FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN AND/OR INSTALLATION. RELOCATION OF OUTLETS AND/OR DEVICES MADE PRIOR TO ROUGH-IN SHALL BE DONE AT NO ADDITIONAL COST.
   - E. ALL WORK SHALL BE PERFORMED BY PROPERLY LICENSED PLUMBERS OR UNDER THEIR DIRECT SUPERVISION. ALL MATERIALS AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE APPLICABLE STANDARDS OF UL AND SHALL BEAR THE UL LABEL AS EVIDENCE THAT THE MATERIAL AND/OR EQUIPMENT MEETS THIS REQUIREMENT.
   - F. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS UNLESS OTHERWISE NOTED IN THESE PLANS. IF ANY DISCREPANCIES EXIST CONTACT THE ENGINEER PRIOR TO ORDERING EQUIPMENT AND ROUGH-IN
   - G. ALL EQUIPMENT START UP AND TESTING SHALL BE PERFORMED BY THE EQUIPMENT MANUFACTURER TRAINED SERVICE TECHNICIAN.
   - H. SUBMIT MANUFACTURER'S LITERATURE (SHOP DRAWINGS) FOR MATERIALS AND EQUIPMENT. SUBMITTAL SHALL INCLUDE EQUIPMENT PERFORMANCE DATA AT ELEVATION AND/OR LOCAL CONDITIONS. EQUIPMENT CUTSHEETS OR CATALOG COPIES ARE NOT ACCEPTABLE. SUBMITTAL SHALL BEAR THE APPROVAL OF THE GENERAL CONTRACTOR FOR COMPLIANCE WITH COORDINATION AND THESE SPECIFICATIONS PRIOR TO SUBMITTAL TO ARCHITECT AND/OR HIS AGENCIES. ANY EQUIPMENT SUBSTITUTED FOR WHAT IS SCHEDULED SHALL BE EQUAL TO THAT SCHEDULED IN CONTROLS, ACCESSORIES, AND PERFORMANCE REGARDLESS OF MANUFACTURER.
   - I. FIELD LABEL ALL PLUMBING EQUIPMENT AND PIPING AS INDICATED ON THE PLANS PER PLUMBING AND LOCAL CODE REQUIREMENTS. INDICATE DIRECTION OF FLOW ON PIPING.
   - J. TAG ALL VALVES WITH CONSECUTIVE NUMBERING ON PERMANENT HARD PLASTIC OR METAL TAB AND PROVIDE SCHEDULE LISTING ITEMS, AREA SERVED, SIZE AND VALVE TYPE. SUBMIT FINAL VALVE SCHEDULE FOR REVIEW.
   - K. PROVIDE EXPANSION LOOPS, SWING JOINTS, OR MECHANICAL EXPANSION COMPENSATING DEVICES AS REQUIRED TO ACCOUNT FOR THERMAL EXPANSION OF ALL PIPING SYSTEMS. EXPANSION SYSTEM SIZING SHALL BE IN ACCORDANCE WITH MATERIALS DATA SHEETS AND MANUFACTURER RECOMMENDATIONS.
   - L. INSTALL ALL EQUIPMENT PER MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS. IF PLAN DIFFERS FROM THESE INSTRUCTIONS THEN NOTIFY ENGINEER PRIOR TO ROUGH-IN. MANUFACTURERS INSTRUCTIONS SHALL PREVAIL. SPECIAL ATTENTION MUST BE PAID TO GAS FIRED EQUIPMENT FLUE/CA LENGTHS, SIZES, AND MATERIAL.

2. BASIC MATERIALS
   - A. PLUMBING CONTRACTOR TO PROVIDE PLUMBING SYSTEM CONTROLS, CONTROLLERS, CONTROL TRANSFORMER, DISCONNECTS, STARTERS, CONTROL WIRING, ASSOCIATED CONTROL POWER WIRING, AND ALL WORK NECESSARY FOR A COMPLETE AND OPERATIONAL PLUMBING SYSTEM. ALL ELECTRICAL ITEMS SHALL BE COORDINATED WITH ELECTRICAL DRAWINGS AND ELECTRICAL SUB-CONTRACTOR FOR INSTALLATION.
   - B. PROVIDE SUPPLEMENTAL STEEL AND SUPPORTS AS REQUIRED FOR INSTALLATION OF PLUMBING MATERIALS, EQUIPMENT, AND APPARATUS.
   - C. ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS. PRIOR TO THE INSTALLATION OF ANY EXPOSED WORK THIS CONTRACTOR SHALL VERIFY AND OBTAIN ARCHITECTURAL. APPROVAL OF LOCATION AND EXTENT.
   - D. PROVIDE PRESSURE REDUCING VALVE ASSEMBLY AT BUILDING WATER SERVICE ENTRY WHERE PRESSURE EXCEEDS 65 PSI. PRESSURE REDUCING VALVE TO BE SET TO 65 PSI.
   - E. PROVIDE SANITARY SEWER SYSTEM CLEANOUTS AS REQUIRED BY LOCAL CODES.
   - F. PROVIDE BRANCH SHUT-OFF VALVES ON ALL WATER LINES EXTENDING FROM MAINS.
   - G. THE CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY OTHERS, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, MOTORS, ETC. AND THE PROPER SERVICING OF EQUIPMENT AND LINES INSTALLED UNDER THIS CONTRACT.

3. PIPING
   - A. SANITARY, VENT, AND STORM PIPING ABOVE GRADE SHALL BE CAST IRON NO-HUB PIPE AND FITTINGS, MANUFACTURED TO CISPI 310 BEARING THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND BE LISTED BY NSF INTERNATIONAL. COUPLINGS FOR JOINING CAST IRON NO-HUB PIPE SHALL MEET THE REQUIREMENTS OF CISPI 310 AND LISTED BY NSF INTERNATIONAL TO THE CISPI 310 STANDARD. IF HEAVY DUTY COUPLINGS ARE REQUIRED: HUSKY 2000, CLAMP ALL 80, OR MISSION 80 COUPLINGS WITH CONSIDERATION TO USE: HUSKY 4000 OR CLAMP ALL 125. INSTALLATION IN COMPLIANCE TO CISPI HANDBOOK.
   - B. SANITARY, VENT, AND STORM PIPING BELOW GRADE SHALL BE CAST IRON HUB AND SPIGOT PIPE AND FITTINGS, MANUFACTURED TO ASTM A74 AND BEARING THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE AND LISTED BY NSF INTERNATIONAL. CAST IRON HUB AND SPIGOT PIPE SHALL BE JOINED WITH COMPRESSION GASKETS MANUFACTURED IN COMPLIANCE WITH ASTM C564 AND C1563. OR CAST IRON NO-HUB PIPE AND FITTINGS MANUFACTURED TO CISPI 301 AND LISTED BY NSF INTERNATIONAL AND, BEARING THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE. COUPLINGS FOR JOINING CAST IRON NO-HUB PIPE SHALL MEET THE REQUIREMENTS OF CISPI 310 AND LISTED BY NSF INTERNATIONAL. IF HEAVY DUTY COUPLINGS ARE REQUIRED: HUSKY 2000, CLAMP ALL 80, OR MISSION 80 COUPLINGS WITH CONSIDERATION TO USE: HUSKY 4000 OR CLAMP ALL 125. INSTALLATION IN COMPLIANCE TO CISPI HANDBOOK.
   - C. SANITARY, VENT, AND STORM PIPING ABOVE AND BELOW GRADE SHALL BE SOLID CORE (NO CELL CORE) PVC SCHEDULE 40 OR 80 PIPE AND SHALL BE IRON PIPE SIZE (IPS) CONFORMING TO ASTM D 1784, ASTM D 1785 AND ASTM D 2665. INJECTION MOLDED PVC DWV FITTINGS SHALL CONFORM TO ASTM D 2665. FABRICATED PVC DWV FITTINGS SHALL CONFORM TO ASTM F 1866. PIPE AND FITTINGS SHALL BE MANUFACTURED AS A SYSTEM AND BE THE PRODUCT OF ONE MANUFACTURER. ALL PIPE AND FITTINGS SHALL BE MANUFACTURED IN THE UNITED STATES. ALL SYSTEMS SHALL UTILIZE A SEPARATE WASTE AND VENT SYSTEM. PIPE AND FITTINGS SHALL CONFORM TO NSF INTERNATIONAL STANDARD 14. INSTALLATION SHALL COMPLY WITH THE LATEST INSTALLATION INSTRUCTIONS PUBLISHED BY MANUFACTURER AND SHALL CONFORM TO ALL APPLICABLE PLUMBING, BUILDING, AND FIRE CODE REQUIREMENTS. BURIED PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D 2321 AND ASTM F 1668. SOLVENT CEMENT JOINTS SHALL BE MADE IN A TWO STEP PROCESS WITH COLORED PRIMER CONFORMING TO ASTM F 656 AND SOLVENT CEMENT CONFORMING TO ASTM D 2564. THE SYSTEM SHALL BE PROTECTED FROM CHEMICAL AGENTS, FIRE STOPPING MATERIALS, THREAD SEALANT, PLASTICIZED VINYL PRODUCTS, OR OTHER AGGRESSIVE CHEMICAL AGENTS NOT COMPATIBLE WITH PVC COMPOUNDS. SYSTEMS SHALL BE HYDROSTATICALLY TESTED AFTER INSTALLATION.
   - D. DOMESTIC WATER PIPING: ABOVE GRADE COPPER SHALL BE ASTM B 88, TYPE L COPPER WITH WROUGHT OR FORGED FITTINGS AND LEAD FREE SOLDERED OR MECHANICALLY PRESSED-CONNECTED JOINT PRO PRESS OR EQUAL. BELOW GRADE WATER PIPING SHALL BE TYPE K COPPER WITH SILVER SOLDERED JOINTS OR SOLVENT SOCKET WELDED CPVC PIPE MEETING ASTM D2846 W/ CELL CLASS 24448 PER ASTM D1784 FOR FLOWGUARD GOLD CTS (1/2" THRU 2") PIPE UTILIZING A 1-STEP SOLVENT CEMENT CONFORMING TO ASTM F493. IF THE AHJ REQUIRES PRIMER, THEN A PRIMER CONFORMING TO ASTM F656 SHOULD BE USED. CONTRACTOR SHALL HAVE ALL INSTALLERS BE BONDER QUALIFIED TO ASME B 31.3. CORZAN CPVC SCHEDULE 80 PIPE W/ CELL CLASS 24448 UP TO 6" AND 23447 8" AND G. ALL PRIMERS AND CEMENTS SHALL BE LISTED WITH NSF FOR POTABLE WATER.
     - D.A. REVIEW ALL ANCILLARY PRODUCT (CAULK, FIRE SEALANT, COATED HANGERS, ETC...) WITH THE LUBRIZOL SYSTEM COMPATIBLE PROGRAM AND/OR RECEIVE WRITTEN DOCUMENTATION FROM ANCILLARY PRODUCT MANUFACTURER SHOWING "COMPATIBILITY" WITH CPVC.
     - D.B. CONTRACTOR SHALL SUBMIT PROOF OF TRAINING BY CPVC MANUFACTURER WITHIN LAST 2-YEARS OF START OF THIS PROJECT FOR "RECOMMENDED INSTALLATION PRACTICES".
   - E. DOMESTIC WATER PIPING ABOVE GRADE: TYPE A UPONOR AQUAPEX PIPING WITH PROPEX FITTINGS FOR ALL BRANCH CONNECTIONS AND TERMINATIONS (OR REHAU EQUIVALENT). TYPE B VIEGA PEX OR EQUAL WITH ZERO LEAD BRONZE, RADEL-R PEX PRESS, OR EQUAL FITTINGS FOR ALL BRANCH CONNECTIONS AND TERMINATION. DCW TO BE BLUE PIPE, DHW TO BE RED PIPE, AND DHWR TO BE WHITE PIPE.
   - F. CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER WITH SOLDERED JOINTS, OR CPVC IF ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION.
   - G. GAS PIPING 3 INCHES AND LARGER SHALL BE SCHEDULE 40 STEEL WITH WELDED JOINTS. GAS PIPING 2-1/2 INCHES AND SMALLER SHALL BE SCHEDULE 40 STEEL. MALLEABLE THREADED FITTINGS OR MECHANICALLY PRESS-CONNECTED (MEGA PRESS) MEETING ASTM A53.
   - H. GAS PIPING BELOW GRADE SHALL BE WRAPPED WITH PROTECTIVE PIPE COVERING AND VENTED IN ACCORDANCE WITH LOCAL JURISDICTIONS HAVING AUTHORITY.
   - I. SEMI RIGID FLEXIBLE GAS PIPING BY TRACPIPE MAY BE USED IF APPROVED BY LOCAL JURISDICTIONS. SYSTEM RESIZING FOR CSST SUBSTITUTIONS IS THE PC'S RESPONSIBILITY.
   - J. ANY PIPING SYSTEM LOCATED IN A RETURN AIR PLENUM SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
   - K. FIRE STOP ALL PIPING MATERIALS PASSING THROUGH FIRE RATED STRUCTURES OR FIRE RATED ASSEMBLIES IN ACCORDANCE WITH THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. USE CURRENTLY LISTED U.L. CLASSIFIED PRODUCTS, TESTED BY ASTM E814. USE FOR ALL APPLICABLE PIPE PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS, OR FLOOR CEILING ASSEMBLIES IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.

4. INSULATION
   - A. WATER PIPING IN UNCONDITIONED SPACE AND EXTERIOR WALLS SHALL BE 2" FIBERGLASS INSULATION.
   - B. COLD WATER PIPING SHALL BE 1/2-INCH THICK FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET. HOT WATER PIPING 2" OR LESS SHALL BE 1-INCH FIBERGLASS INSULATION. HOT WATER PIPING GREATER THAN 2-INCHES SHALL BE 1 1/2" FIBERGLASS INSULATION. RUNOUTS, NOT EXCEEDING 12 FEET, UP TO 2-INCHES SHALL BE 1/2-INCH THICK FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET.
   - C. HORIZONTAL SANITARY AND STORM PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING COVERED PARKING AND CRAWL SPACES SHALL BE HEAT-TRACED AND INSULATED WITH 1-INCH FIBERGLASS INSULATION.
   - D. VERTICAL SANITARY AND STORM PIPING EXPOSED TO OUTDOOR TYPE AMBIENT CONDITIONS INCLUDING COVERED PARKING AND CRAWL SPACES SHALL BE INSULATED WITH 1-INCH FIBERGLASS INSULATION.
   - E. CONDENSATE DRAIN PIPING SHALL BE 1/2-INCH THICK INSULATION WITH AN ALL-SERVICE JACKET.

5. PLUMBING FIXTURES
   - A. FURNISH AND INSTALL PLUMBING FIXTURES AS SCHEDULED ON THE PLANS.
   - B. PROVIDE CHROME PLATED ANGLE STOPS AND ESCUTCHEON PLATES ON ALL EXPOSED FIXTURE RUNOUTS
   - C. PROVIDE INSULATION AND ROUGH IN AS REQUIRED FOR COMPLIANCE WITH ADA REQUIREMENTS.
   - D. PROVIDE ALL ACCESSORIES AND SPECIALTY ITEMS AS REQUIRED FOR A COMPLETE FIXTURE INSTALLATION.

6. ELECTRIC WATER HEATERS
   - A. FURNISH AND INSTALL A GLASS LINED ELECTRIC WATER HEATER AS SCHEDULED ON THE PLANS.
   - B. FURNISH HEATER WHICH ARE UL LABELED AND MEET THE REQUIREMENTS OF LOCAL MUNICIPALITIES.
   - C. WATER HEATER LOCATED IN CEILING SHALL BE PROVIDED WITH 2 1/2" DRAIN PAN. TERMINATE DRAIN TO NEAREST FLOOR DRAIN, FLOOR SINK OR LAV TRAP.

PLUMBING FIXTURE SCHEDULE

PLAN MARK	WASTE /TRAP	VENT	DCW	DHW	DESCRIPTION
WC	3"	2"	1/2"	–	ADA WATER CLOSET: KOHLER HIGHLINE K-3519. FLOOR MOUNTED, TANK TYPE, VITREOUS CHINA, ELONGATED BOWL, 17-1/8" HIGH, JETTED BOWL, 1.0 GPF, FULLY GLAZED 2-1/4" TRAPWAY, 12" ROUGH-IN, ANGLE STOPS, FLEX TUBE WATER SUPPLY LINE AND WALL ESCUTCHEON. PROVIDE TANK LEVER TO ACCESSIBLE SIDE OF FIXTURE. TOILET SEAT: KOHLER STRONG HOLD K-4731. SOLID PLASTIC, OPEN FRONT SEAT LESS COVER, STAINLESS STEEL CHECK HINGES.
LAV	2"	2"	1/2"	1/2"	ADA WALL HUNG LAVATORY: KOHLER KINGSTON K-2007. VITREOUS CHINA, 20-1/4"X18-1/8", FRONT OVERFLOW, FITTING LEDGE, SEALANT, SINGLE FAUCET HOLE. PROVIDE A ZURN Z-1231 CONCEALED ARM CARRIER. FAUCET: MOEN MODEL 8884 METERING FAUCET. ADA LEVER HANDLE, CAST BRASS BODY, BRASS SHEELL CARTRIDGE,WATTS MMV MIXING VALVE. 4 3/4" SPOUT, 0.5 GPM AERATOR, FLEXIBLE TUBE WATER SUPPLY LINES, LOOSE KEY ANGLE STOPS, OPEN GRID DRAIN WITH 1 1/4" X 6, 18 GAGE SEAMLESS BRASS TAIL PIECE , JR SMITH MODEL 2698 TRAP EZE TAP PRIMER AND TRUEBRO TRAP WRAP OR SIMILAR.
WH			3/4"	3/4"	POINT OF USE WATER HEATER: STATE ES6 2 SSUS K OR APPROVED EQUAL FOR WALL MOUNT IN CONFINED SPACE
TP			1/2"		TRAP PRIMER: PRECISION PLUMBING PRODUCTS #PR-500 "PRIME RITE" CORROSION RESISTANT BRASS BODY "O"RING SEALS, INTEGRAL VACUUM BREAKER. INSTALL MIN. 12" AFF.
WHA			1/2"	1/2"	WATER HAMMER ARRESTER: PRECISION PLUMBING PRODUCTS, HARD DRAWN COPPER BODY WITH WROUGHT COPPER FITTINGS, PISTON TYPE WITH LUBRICATED EPDM "O" RING SEALS, MEETING ASSE 1010 OR PDI WH-201. PROVIDE PDI SIZE "A" UNLESS SHOWN OTHERWISE ON PLANS.
SK	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT SINK: ELKAY "LUSTERTONE" #LRAD-3322 SINGLE COMPARTMENT SINK, SATIN POLISHED FINISH, STAINLESS STEEL, SELF RIMMING, THOROUGHLY SOUND DEADENED, FAUCET: MOEN "INTEGRA" 67315L FAUCET SINGLE LEVER WITH 3 HOLE ESCUTCHEON . DURALAST CARTRIDGE, GOOSE NECK SPOUT WITH PULL OUT FAUCET, SINGLE LEVER HANDLE, 2.2 GPM AERATOR, PLATE, 3 1/2" STAINLESS STEEL BASKET STRAINER, 1 1/2" 17G TUBULAR CONTINOUS WASTE , CHROME FINISH WALL ESCUTCHEON PLATE, ANGLE STOPS AND FLEXIBLE TUBE SUPPLY LINES. MIXING VALVE SET TO MAXIMUM 105 DEGREES.
FD	2"	2"	1/2"	–	FLOOR DRAIN: ZURN Z415. ROUND CAST IRON BODY WITH FLASHING COLLAR, 6" ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED SQUARE HOLE GRATE, BOTTOM WASTE OUTLET AND TRAP PRIMER CONNECTION. PROVIDE IAUTOMATIC TRAP PRIMER PPP MODEL P-1 IF TRAP EZE CANNOT BE USED.

NOTE:
1. CONTRACTOR TO COORDINATE FINAL SELECTIONS OF ALL PLUMBING FIXTURES WITH OWNER/FRANCHISE PRIOR TO ORDERING.
2. FLOOR DRAINS SHALL BE PROVIDED WITH TRAP PRIMER USING JR SMITH MODEL 2698 TRAP EZE TAP PRIMER FROM ADJACENT SINK.
3. ALL FIXTURES AND EQUIPMENT ARE OWNER STANDARDS AND NO ALTERNATES WILL BE ACCEPTED.

FIXTURE BRANCH CONNECTION SCHEDULE

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET (TANK)	1/2"	--	3"	2"
LAVATORY/ HAND SINK	1/2"	1/2"	2"	1-1/2"
FLOOR DRAIN	--	--	2"	2"
SINK	1/2"	1/2"	2"	2"

NOTE:
PIPE SIZES SHOWN ARE MINIMUM.

PLUMBING LEGEND

BC	BICARB
CT	CONCENTRATE
CND	CONDENSATE
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
120°R	DOMESTIC HOT WATER RECIRC
GW	GREASE WASTE
MCA	MEDICAL COMPRESSED AIR
O	GAS
O2	OXYGEN
RO	REVERSE OSMOSIS
RD	ROOF DRAIN
ORD	OVERFLOW ROOF DRAIN
SOI	SAND OIL
SS	SANITARY SEWER
V	VENT
SCA	SCAVENGER AIR
VAC	VACUUM SUCTION
(A)XX	TYPICAL PIPE ABOVE/ON ROOF
(B)XX	TYPICAL PIPE BELOW/UNDERGROUND
(E)XX	TYPICAL PIPE EXISTING

VALVES

- BALL VALVE
- GATE VALVE
- GLOBE VALVE
- CHECK VALVE
- PRESSURE REDUCING VALVE (PRV)
- MEASURE FLOW
- TEE UP
- TEE DOWN
- ELBOW UP
- ELBOW DOWN

MISC.

- POINT OF CONNECTION (POC)
- DEMO

FIXTURES

- WALL CLEAN OUT
- FLOOR CLEANOUT
- AREA DRAIN
- FLOOR DRAIN
- FLOOR SINK FULL COVER
- FLOOR SINK 3/4 COVER
- FLOOR SINK 1/2 COVER
- GAS METER
- HOSE BIB
- BATH TUB/MOP SINK
- SINK
- 2-COMPARTMENT SINK
- DRINKING FOUNTAIN/URINAL
- WASHER BOX
- ICE BOX
- WATER CLOSET STACK
- WATER CLOSET

GENERAL NOTES:

1. ALL ITEMS CONNECTING TO POTABLE WATER SHALL MEET THE LEAD FREE STANDARD OF .25% OR LESS LEAD.
2. PLUMBING PLANS REFERENCE FINISHED FLOOR TO FINISHED FLOOR ABOVE. SANITARY SHOWN IS FOR FIXTURES ABOVE UNLESS NOTED OTHERWISE.
3. FIELD VERIFY ALL ROUTING OF PLUMBING LINES WITH OTHER TRADES. FIELD ADJUST ROUTING ACCORDINGLY TO MAKE SYSTEM WORK WITH OTHER TRADES.
4. PROVIDE ASSE1070 MIXING VALVE AT ALL PUBLIC FIXTURES AS REQUIRED PER LOCAL CODE.
5. PC TO PROVIDE VACUUM BREAKERS AT LOCATIONS WHERE HOSES AND NOZZLES ARE USE, I.E. JANITOR SINKS, BEAUTY SINKS, KITCHEN SPRAYERS, DISHWASHERS, AND BATHS. INSTALL CHECK VALVES ON BOTH COLD AND HOT WATER LINES TO FIXTURE.
6. ALL DRAINAGE LINES 2-1/2" AND UNDER TO BE SLOPED AT 1/4" PER FOOT, 3"-6" TO BE SLOPED AT 1/8" PER FOOT, AND 8" AND OVER TO BE SLOPED AT 1/16" PER FOOT UNLESS NOTED OTHERWISE.
7. START TRENCHING FOR NEW SANITARY LINE AT FURTHEST FIXTURE (HIGHEST POINT IN SYSTEM) FROM CIVIL CONNECTION POINT TO BUILDING.
8. FIELD ROUTE ALL CONDENSATE LINES, T&P VALVES, AND DRAIN VALVES FROM MECHANICAL AND PLUMBING EQUIPMENT TO SANITARY SEWER RECEPTOR OR STORM/GRADE PER LOCAL CODE AND JURISDICTION.
9. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL HEIGHTS AND/OR LOCATIONS OF SHOWER FIXTURES.
10. WATER CLOSETS ON BEAMS OR COLUMNS TO BE OFFSET 18" OFF FINISHED WALL (OFFSET FLANGES NOT ALLOWED).
11. PEX PIPING IS AN APPROVED PIPING MATERIAL FOR DISTRIBUTION TO ALL FIXTURES OFF WATER MAINS.
12. DO NOT SECURE ANY PIPING TO EXPANSION JOINT WALLS.
13. ENSURE THAT THE DOMESTIC HOT WATER PIPING AND COIL SERVING THE POOL AIR HANDLER REHEAT ARE OPEN DURING PIPING SYSTEM CHLORINATION BY KILLING THE POWER TO THE VALVE DURING THE FLUSHING (IT WILL SPRING OPEN).
14. MC TO FURNISH AND INSTALL REFRIGERANT LINES BETWEEN ICE MACHINES AND THEIR RESPECTIVE REMOTE CONDENSING UNITS.

ABBREVIATIONS

(D)	DEMO
(E)	EXISTING
(N)	NEW
AAV	AIR ADMITTANCE VALVE
AD	AREA DRAIN
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
B	BOILER
BB	BASEBOARD
BF	BOOSTER FAN
BFP	BACKFLOW PREVENTER
BT	BATH TUB
BV	BALL VALVE
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CS	CLINICAL SINK
CU	CONDENSING UNIT
CV	CHECK VALVE
CUH	CABINET UNIT HEATER
DCW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DHW	DOMESTIC HOT WATER
DSN	DOWN SPOUT NOZZLE
EVC	EVAPORATIVE COOLER
EC	ELECTRICAL CONTRACTOR
ECO	END OF LINE CLEANOUT
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ERU	ENERGY RECOVERY UNIT
ER	EXISTING REMOVED
ERR	EXISTING REMOVED & RELOCATED
EW	EMERGENCY EYEWASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FURNACE
FCO	FLOOR/GRADE CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FS	FLOOR SINK
G	GAS
GC	GENERAL CONTRACTOR
GM	GAS METER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GAS REGULATOR
GUH	GAS UNIT HEATER
GW	GREASE WASTE
GWH	GAS WATER HEATER
HB	HOSE BIB
HP	HEAT PUMP
HX	HEAT EXCHANGER
IM	ICE MAKER BOX
LAV	LAVATORY
LS	LAUNDRY SINK
MAU	MAKE-UP AIR UNIT
MC	MECHANICAL CONTRACTOR
MF	MEASURE FLOW
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
ORD	OVER FLOW ROOF DRAIN
P	PUMP
PC	PLUMBING CONTRACTOR
PFT	PARALLEL FAN TERMINAL
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	PRESSURE GAUGE
RA	RETURN AIR
RAR	RETURN AIR REGISTER
RD	ROOF DRAIN
RE	RELOCATE EXISTING
RH	RADIANT HEATER
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAR	SUPPLY AIR REGISTER
SF	SUPPLY FAN
SFT	SERIES FAN TERMINAL
SH	SHOWER
SK	SINK
SOI	SAND/OIL INTERCEPTOR
SS	SERVICE SINK
T&P	TEMPERATURE & PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
UR	URINAL
VAV	VARIABLE AIR VOLUME
VVT	VARI TRAC
WB	WASHER BOX
WC	WATER CLOSET/WATER COLUMN
WCO	WALL CLEANOUT COLUMN
WH	WALL HYDRANT

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

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FOUNTAIN VILLAGE OFFICE RENOVATION

12000 E. KANSAS DRIVE AURORA, CO 80012

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SHEET CONTENTS:
PLUMBING SPECS SCHEDULES & LEGEND

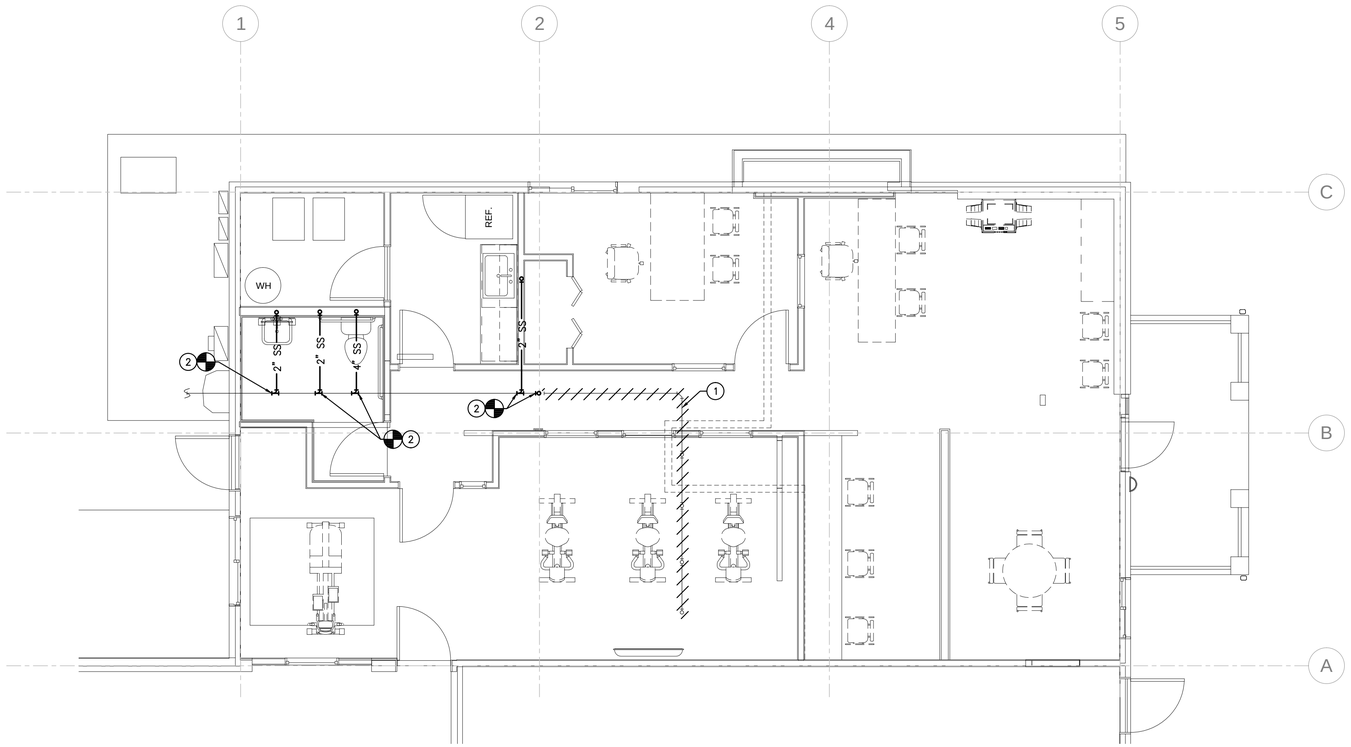
COLORADO LICENSED
JEFFREY A. GIVEN
32951
PROFESSIONAL ENGINEER

PROJ. NUMBER: 4-15-03
DATE: 07-09-2015

DRAWING NUMBER:
P1.00

DRAWING NOTES:

1. DEMO SANITARY SEWER. PATCH FLOOR TO MATCH SURROUNDING. FIELD VERIFY EXISTING PIPING LOCATIONS AND CONDITIONS PRIOR TO DEMO. DO NOT DEMO LIVE SECTIONS OF SEWER.
2. CONNECT TO EXISTING SANITARY SEWER OF 4" SIZE OR GREATER AND EXTEND AS INDICATED TO NEW FIXTURES.



1 P2.00 UNDERGROUND PLUMBING PLAN

4' 2' 0 4' 8'

1/4"=1'-0"

NORTH

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. **2009 IBC 105.4**

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: ***James Comer***
Date: ***Nov 25, 2015***
2009 INTERNATIONAL CODES & 2014 NEC

RSN: ***1063633***
Permit #: ***15-1024782***

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SHEET CONTENTS:

UNDERGROUND PLUMBING PLAN

COLORADO LICENSED
JAMES C. GIVEN
32961
PROFESSIONAL ENGINEER

PROJ. NUMBER: 4-15-03

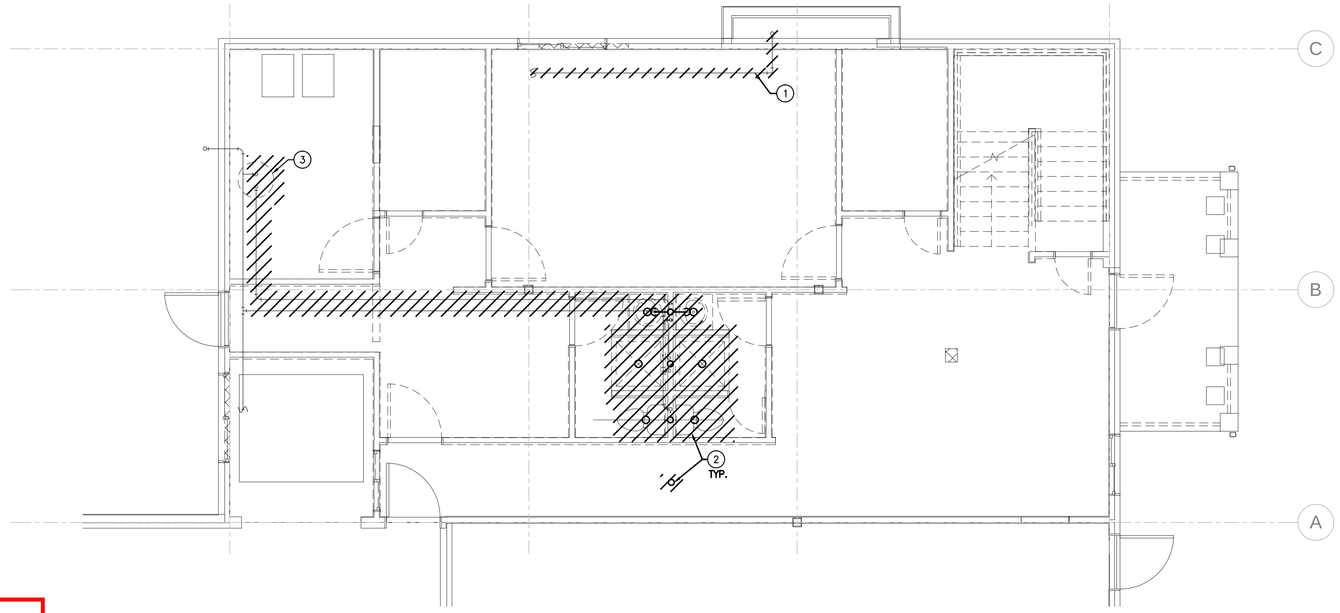
DATE: 07-09-2015

DRAWING NUMBER:

P2.00

DRAWING NOTES:

1. DEMO GAS FROM SECOND FLOOR FIREPLACE BACK TO NEXT LIVE BRANCH. CAP AND SEAL.
2. DEMO ALL PLUMBING FIXTURES AND ATTACHED ACCESSORIES. PATCH FLOOR TO MATCH EXISTING.
3. DEMO WATER HEATER, ASSOCIATED HOT WATER PIPING, GAS PIPING, CONTROLS, VENT, AND ALL ATTACHED ACCESSORIES. CAP AND SEAL GAS PIPING AND PATCH EXTERIOR WALL PENETRATIONS TO MATCH SURROUNDINGS.
4. MOUNT WATER HEATER ON WALL AS AVAILABLE. ROUTE T&P DRAIN THROUGH WALL TO AIR GAP ABOVE FLOOR DRAIN. COORDINATE SPACE REQUIREMENTS WITH OTHER TRADES.



1 2 P2.01 FIRST FLOOR PLUMBING PLAN – DEMO

4' 2' 0 4' 8'

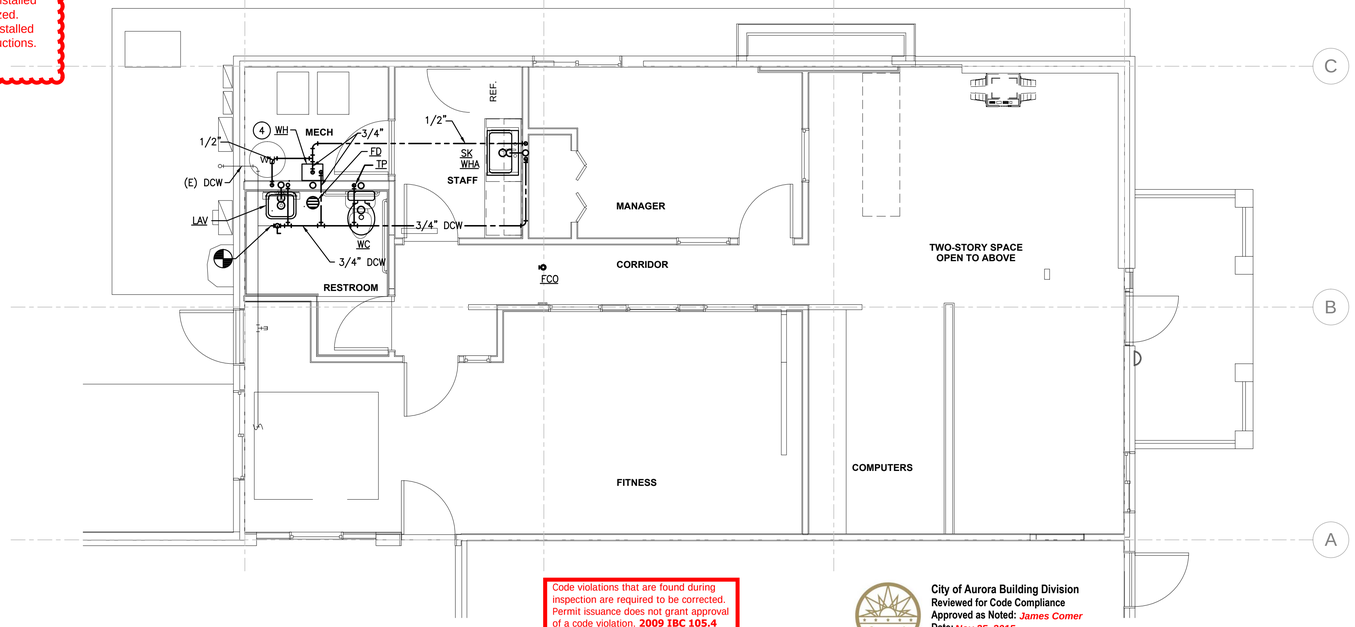
1/4"=1'-0"

NORTH

Provide drains no smaller than allowed by **2009 IPC Table 709.1 and 710.1(1)**

The dry vent must rise 6" vertically above the flood level rim of the trap **2009 IPC 905.4**

A water hammer arrestor shall be installed where quick closing valves are utilized. Water hammer arrestors shall be installed per manufacturers installation instructions. 2009 IPC 604.9.



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City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *James Comer*
Date: *Nov 25, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

1 P2.01 FIRST FLOOR PLUMBING PLAN

4' 2' 0 4' 8'

1/4"=1'-0"

NORTH

RSN: *1063633*
Permit #: *15-1024782*

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FIRST FLOOR PLUMBING PLAN

COLORADO LICENSED JEFFREY W. GIVEN 32961 PROFESSIONAL ENGINEER

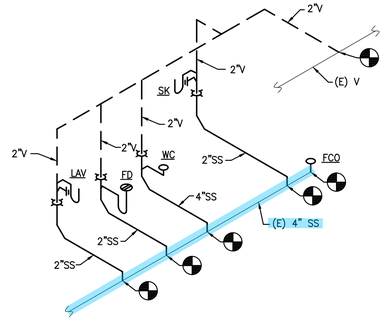
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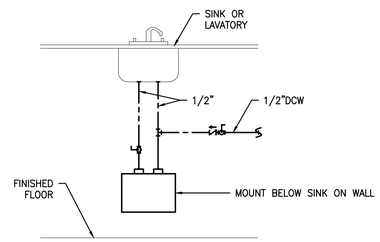
DRAWING NUMBER:

P2.01

Provide drains no smaller than allowed by **2009 IPC Table 709.1 and 710.1(1)**



2 PLUMBING WASTE RISER DIAGRAM
P3.00 N.T.S.



1 INSTA HOT BELOW SINK DETAIL
P3.00 N.T.S.

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SHEET CONTENTS:
PLUMBING ISOMETRICS AND DETAILS

COLORADO LICENSED
JAMES C. GIVEN
32961
PROFESSIONAL ENGINEER

PROJ. NUMBER: 4-15-03
DATE: 07-09-2015

DRAWING NUMBER:
P3.00

MECHANICAL SPECIFICATIONS

THIS SHEET SPECIFICATION SHALL GOVERN IN LIEU OF SEPARATE BOUND SPECIFICATIONS. UPON ISSUANCE SHOULD CONFLICTS ARISE BETWEEN THE SHEET AND THE BOUND SPECIFICATION THEN THE MORE STRINGENT OF THE TWO SHALL PREVAIL.

1. BASIC REQUIREMENTS
   - A. MECHANICAL DESIGN SHALL CONFORM TO 2009 INTERNATIONAL MECHANICAL CODE. PROJECT SHALL BE COORDINATED WITH THE EXISTING BUILDING SERVICES AND SHALL INCLUDE ALL ITEMS NECESSARY FOR COMPLETE AND FULLY OPERATIONAL TENANT MECHANICAL SYSTEMS. MAKE CONNECTIONS TO AND EXTEND SYSTEMS INSTALLED BY OTHERS AND/OR FURNISHED BY OTHERS. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM WHETHER OR NOT SPECIFICALLY SPECIFIED AND/OR SHOWN ON THE PLANS.
   - B. DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS BY OTHERS FOR DIMENSIONS AND FOR ESTIMATING DISTANCES. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS RELATING TO THE JOB WETHER OR NOT INDICATED ON THESE DRAWINGS.
   - C. ANY SCALE, DIMENSION OR QUANTITIES SHOWN ON THE DRAWINGS ARE FOR ENGINEERING CALCULATION PURPOSES ONLY. THE MECHANICAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ESTIMATING AND DETERMINING ALL DISTANCES AND QUANTITIES RELATED TO THE PROJECT. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS BY OTHERS AND VERIFY EXISTING CONDITIONS ON SITE FOR ALL ESTIMATING PURPOSES.
   - D. COORDINATE WITH OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE. WHERE CROWDED CONDITIONS EXIST, PREPARE COORDINATION DRAWINGS SHOWING ALL TRADE CONFLICTS AND SUBMIT TO ARCHITECT FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN AND/OR INSTALLATION. RELOCATION OF OUTLETS AND/OR DEVICES MADE PRIOR TO ROUGH-IN SHALL BE DONE AT NO ADDITIONAL COST.
   - E. ALL WORK SHALL BE PERFORMED BY PROPERLY LICENSED MECHANICS OR UNDER THEIR DIRECT SUPERVISION. ALL MATERIALS AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE APPLICABLE STANDARDS OF UL AND SHALL BEAR THE UL LABEL AS EVIDENCE THAT THE MATERIAL AND/OR EQUIPMENT MEETS THIS REQUIREMENT.
   - F. INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS UNLESS OTHERWISE NOTED IN THESE PLANS. IF DISCREPANCIES EXIST CONTACT THE ENGINEER PRIOR TO ORDERING EQUIPMENT AND ROUGH-IN.
   - G. ALL EQUIPMENT START UP AND TESTING SHALL BE PERFORMED BY THE EQUIPMENT MANUFACTURER TRAINED SERVICE TECHNICIAN.
   - H. SUBMIT MANUFACTURER'S LITERATURE (SHOP DRAWINGS) FOR MATERIALS AND EQUIPMENT. SUBMITTAL SHALL INCLUDE EQUIPMENT PERFORMANCE DATA AT ELEVATION AND/OR LOCAL CONDITIONS. EQUIPMENT CUTSHEETS OR CATALOG COPIES ARE NOT ACCEPTABLE. SUBMITTAL SHALL BEAR THE APPROVAL OF THE GENERAL CONTRACTOR FOR COMPLIANCE WITH COORDINATION AND THESE SPECIFICATIONS PRIOR TO SUBMITTAL TO ARCHITECT AND/OR HIS AGENCIES. ANY EQUIPMENT SUBSTITUTED FOR WHAT IS SCHEDULED SHALL BE EQUAL TO THAT SCHEDULED IN CONTROLS, ACCESSORIES, AND PERFORMANCE REGARDLESS OF MANUFACTURER.
   - I. FIELD LABEL ALL MECHANICAL EQUIPMENT AND PIPING AS INDICATED ON THE PLANS PER MECHANICAL AND LOCAL CODE REQUIREMENTS. INDICATE DIRECTION OF FLOW ON PIPING.
   - J. PROVIDE 2" DEEP AUXILIARY DRAIN PAN WITH SEPARATE DRAIN LINE UNDER HEATING AND COOLING COILS (AIR HANDLING UNITS, FAN COIL UNITS, INLINE PUMPS, ETC.) AND PROVIDE A WATER-LEVEL MONITORING DEVICE ON ALL DOWNFLOW EQUIPMENT WITHOUT A SECONDARY COIL WHERE CONDENSATION OR LEAKAGE CAN OCCUR. ALTERNATELY, IF ALLOWED IN LOCAL JURISDICTION, PROVIDE AN OVERFLOW CONDENSATE KILL SWITCH.
   - K. PROVIDE EXPANSION LOOPS, SWING JOINTS, OR MECHANICAL EXPANSION COMPENSATING DEVICES AS REQUIRED TO ACCOUNT FOR THERMAL EXPANSION OF ALL PIPING SYSTEMS. EXPANSION SYSTEM SIZING SHALL BE IN ACCORDANCE WITH MATERIALS DATA SHEETS AND MANUFACTURER RECOMMENDATIONS.
   - L. PROVIDE MANUFACTURERS RECOMMENDED MODIFICATIONS (SUCH AS HEAT TRACE AND ROUTING CHANGES) TO CONDENSING GAS FIRED EQUIPMENT LOCATED IN POTENTIAL FREEZING SPACES (SUCH AS ATTICS)

2. BASIC MATERIALS
   - A. PROVIDE MECHANICAL SYSTEM CONTROLS, CONTROLLERS, CONTROL TRANSFORMER, DISCONNECTS, STARTERS, CONTROL WIRING, ASSOCIATED CONTROL POWER WIRING, AND ALL WORK NECESSARY FOR A COMPLETE AND OPERATIONAL MECHANICAL SYSTEM.
   - B. PROVIDE SUPPLEMENTAL STEEL AND SUPPORTS AS REQUIRED FOR INSTALLATION OF MECHANICAL MATERIALS, EQUIPMENT, AND APPARATUS.
   - C. PROVIDE VIBRATION ISOLATION ON ALL MECHANICAL EQUIPMENT. INSTALL FLEXIBLE DUCT CONNECTORS ON ALL AIR HANDLING UNIT SUPPLY OUTLET AND RETURN INLET.
   - D. ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS. PRIOR TO THE INSTALLATION OF ANY EXPOSED WORK THIS CONTRACTOR SHALL VERIFY AND OBTAIN ARCHITECTURAL. APPROVAL OF LOCATION AND EXTENT.
   - E. UTILIZE AN INDEPENDENT BALANCER WITH NEBB AND/OR AABC CERTIFICATION. MECHANICAL SYSTEM SHALL BE BALANCED TO 10% DISCREPANCY OF THE CFM INDICATED ON THE PLANS. IF THERE IS A AIR BALANCE DISCREPANCY GREATER THAN 10%, BALANCE CONTRACTOR SHALL CONTACT ENGINEER. PROVIDE MANUAL VOLUME DAMPERS ON DIRECT DRIVE UNITS AS REQUIRED TO MEET SPECIFIED AIR QUANTITIES.
   - F. CONFIRM ACTUAL VOLTAGES, PHASE AND CHARACTERISTICS OF EXISTING EQUIPMENT AND APPARATUS FURNISHED BY TENANT OTHER TRADES, AND/OR DIVISIONS. CONFIRM PRIOR TO ROUGH-IN. IF DISCREPANCIES ARE NOTED TO THE INSTRUCTIONS OF THESE PLANS AND SPECIFICATIONS, SUBMIT THE NOTED DISCREPANCIES TO THE ARCHITECT FOR DIRECTION PRIOR TO PROCEEDING.
   - G. PROVIDE DUCT SMOKE DETECTORS FOR AUTOMATIC EQUIPMENT SHUTOFF IN AIR-MOVING SYSTEMS THAT RETURN IN EXCESS OF 2000 CFM TO ENCLOSED SPACES WITHIN BUILDINGS PER MECHANICAL HAVING JURISDICTION. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE AIR HANDLING UNIT AUTOMATIC SHUT-DOWN WIRING AND DUCT/SMOKE DETECTOR WIRING WHEN REQUIRED. DETECTORS SHALL BE COMPATIBLE WITH BUILDING FIRE ALARM SYSTEM.
   - H. SMOKE, FIRE AND COMBINATION FIRE/SMOKE DAMPERS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. UNITS SHALL BE 120V AND ALL 120V WIRING SHALL BE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. SMOKE, FIRE AND COMBINATION FIRE/SMOKE DAMPERS FURNISHED SHALL BE COMPATIBLE WITH BUILDING FIRE ALARM SYSTEM. MC SHALL COORDINATE WITH EC AT TIME OF BID TO ENSURE ALL LINE VOLTAGE AND FIRE ALARM CONNECTIONS ARE INCLUDED IN THE BID SCOPE.
   - I. FIRE/SMOKE DAMPERS SHALL BE FURNISHED WITH REMOTE COMMAND STATION EQUIPPED WITH TEST SWITCH, THERMAL TEST RESET SWITCH, OPEN/CLOSE PILOT LIGHT INDICATORS. FIRE/SMOKE DAMPERS FURNISHED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.
   - J. THE CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY OTHERS, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, DAMPERS, MOTORS, ETC. AND THE PROPER SERVICING OF EQUIPMENT AND LINES INSTALLED UNDER THIS CONTRACT. AT TIME OF BID THE MC AND GC SHALL COORDINATE TO ENSURE THAT ALL ACCESS PANELS (INCLUDED FIRE AND/OR SMOKE RATED MODELS) ARE INCLUDED.

3. DUCTWORK
   - A. DUCTWORK SHALL BE GALVANIZED SHEET METAL INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. INSTALL TURNING VANES IN ALL ELBOWS. ALL SPIN-IN FITTINGS AND RUNOUTS TO ANY REGISTERS, RETURN, OR EXHAUST TERMINAL SHALL BE PROVIDED WITH MANUAL VOLUME DAMPERS.
   - B. ALL DUCTWORK SHALL BE SEALED IN ACCORDANCE WITH SMACNA STANDARDS. THE DUCT PRESSURE CLASS SHALL BE AS NOTED ON PLANS OR CORRESPONDING TO THE MAXIMUM EQUIPMENT ESP ON EACH SYSTEM. THE DUCTWORK SHALL BE SEALED TIGHT. LEAKAGE MAY NOT EXCEED 10% OF DESIGN AIRFLOW AT DESIGN PRESSURE. FOR SMOKE CONTROL SYSTEMS THE DUCT MUST BE TESTED AT 1.5 TIMES ITS DESIGN PRESSURE AND LEAKAGE MAY NOT EXCEED 5% OF DEIGN AIRFLOW.
   - C. ALL EXPOSED ROUND DUCTWORK SHALL BE SPIRAL DUCT. NO JOISTS OR CONNECTIONS SHALL HAVE ANY VISIBLE SEALANT FROM THE EXTERIOR SO THE DUCTWORK HAS A CLEAN AND WORKMAN LIKE APPEARANCE.
   - D. DUCT SIZES GIVEN ARE NET INSIDE FREE AREA.
   - E. EQUIPMENT FLEXIBLE DUCTWORK CONNECTION NOT TO EXCEED 10 INCHES IN LENGTH WITH A MAX. 25 FLAME/50 SMOKE INDEX.
   - F. FLEXIBLE DUCTWORK TO AIR DEVICES SHALL HAVE A MAXIMUM STRETCHED LENGTH OF 6 FEET. SUITABLE FOR RETURN AIR PLENUM.
   - G. PRESSURIZED EXHAUST DUCTWORK LOCATED RETURN AIR PLENUM SHALL BE SEALED WITH SMACNA SEAL CLASS "A" DUCT SEALANT.
   - H. ALL FLUE GAS DUCTWORK TO BE METALBESTOS TYPE B VENTING OR EQUAL UNLESS OTHERWISE NOTED ON PLANS.
   - I. KITCHEN RANGES ARE ELECTRIC AND A RECIRCULATION CARBON FILTER FAN SYSTEM PROVIDED AND SPECIFIED BY OTHERS.
   - J. KITCHEN GREASE EXHAUST DUCTS SHALL BE MINIMUM 16 GAGE STEEL OR 18 GAG STAINLESS STEEL WITH CONTINUOUS WELDED CONSTRUCTION PER NFPA 96. PROVIDE CLEANOUTS PER CODE AND LOCAL JURISDICTION.
   - K. ALL EXHAUST TERMINALS MUST BE 3'-0" AWAY FROM IN ELEVATION FROM OPERABLE PORTION OF WINDOW AND DOORS. MC TO OFFSET AS REQUIRED.
   - L. ALL DIRECT VENT VENT TERMINALS MUST BE 4'-0" AWAY IN ELEVATION HORIZONTALLY OR BELOW AND ATLEAST 1'-0" ABOVE ANY OPERABLE PORTION OF A WINDOW OR DOOR. MC TO OFFSET AS REQUIRED.
   - M. IF MC INSTALLATION RESULTS IN LONGER DRYER DUCT VENT LENGTHS THAN NOTED THEN THE OWNER/ ARCH MUST BE INFORMED TO ENSURE PROPER DRYERS ARE INSTALLED.
   - N. INSTALL PERMANENT NAMEPLATE AT ALL DRYER CONNECTIONS WITH ¼" TEXT STATING THE REQUIRED DUCT LENGTH AND ELBOWS FOR EACH.

5. INSULATION
   - A. ALL ROUND CONCEALED RIGID SUPPLY DUCTWORK SHALL BE EXTERNALLY WRAPPED WITH NOMINAL 1-1/2" THICK (MINIMUM R-5.0) FIBER GLASS INSULATION WITH FIRE RETARDANT VAPOR BARRIER.
   - B. OUTDOOR AIR INTAKE DUCTS SHALL BE EXTERNALLY WRAPPED WITH NOMINAL 1-1/2" THICK (MINIMUM R-5.0) FIBER GLASS INSULATION WITH FIRE RETARDANT VAPOR BARRIER.
   - C. WHEN LOCATED IN UNCONDITIONED SPACES ALL RECTANGULAR DUCTWORK SHALL BE LINED WITH 1" THICK 2 POUND DENSITY (MINIMUM R-5.0) FIBER GLASS ACOUSTIC DUCT LINER. ALL DUCTWORK EXPOSED TO OUTDOOR AMBIENT TYPE CONDITIONS (UNCONDITIONED ATTICS, OUTSIDE AIR DUCTS, ETC) SHALL BE EXTERNALLY WRAPPED OR INTERNALLY LINED IN 2 – 2.5" NOMINAL INSULATION (MINIMUM R-8.0). ALL OUTDOOR DUCTWORK SHALL HAVE 2 – 2.5" DUCTLINER (MINIMUM R-8.0) AND THE DUCT BE SEALED WEATHERPROOF PER SMACNA GUIDELINES. RECTANGULAR DUCT WORK IN RETURN AIR PLENUM SHALL BE LINED WITH 1/2" THICK 2 POUND DENSITY (MINIMUM R2.1) MAT-LACED ACOUSTIC DUCT LINER.
   - D. CONDENSATE DRAIN PIPING SHALL BE 1/2-INCH THICK INSULATION WITH AN ALL-SERVICE JACKET.
   - E. INSULATE REFRIGERANT SUCTION LINES WITH 1/2" FOAM PLASTIC CLOSED CELL INSULATION.
   - F. CHILLED AND HEATING WATER PIPING SHALL BE 2-INCH THICK FIBER GLASS INSULATION WITH AN ALL-SERVICE JACKET.
   - G. CHILLED AND HEATING WATER PIPING EXPOSED TO WEATHER SHALL BE 2" WEATHER PROOFED INSULATION BOUND WITH ALUMINUM WRAPPING.
   - H. RESIDENTIAL UNITS: SUPPLY DUCTWORK SHALL NOT BE LINED. RETURN AIR DUCTS SHALL HAVE 1/2" DUCTLINER IN DRY CLIMATES AND NO DUCTLINER IN HUMID CLIMATES.

6. AIR INLETS AND OUTLETS
   - A. FURNISH AND INSTALL AIR INLETS AND OUTLETS AS SCHEDULED ON THE PLANS.
   - B. OUTLETS SHALL HAVE A WHITE BAKED ENAMEL FINISH TO MATCH CEILING OR WALL.

7. EXHAUST FANS
   - A. FURNISH AND INSTALL CENTRIFUGAL EXHAUST FANS AS SCHEDULED ON THE PLANS.
   - B. FURNISH AND INSTALL ROOF CURBS AND BACKDRAFT DAMPERS.
   - C. FURNISH AND INSTALL UNITS COMPLETE WITH ALL OPERATIONAL AND SAFETY CONTROL NECESSARY FOR PROPER OPERATION.

12. CONTROL SYSTEM
   - A. FURNACE AND CONDENSING UNITS
     - A.1. UNIT SHALL BE STARTED AND STOPPED FROM AN INDEPENDENT PROGRAMMABLE THERMOSTAT. ALL OPERATIONAL AND SAFETY INTERLOCKS SHALL BE WIRED INCLUDING UNIT SHUT DOWN FROM DUCT SMOKE DETECTORS FURNISHED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR IN ACCORDANCE WITH LOCAL CODE JURISDICTIONS.
     - A.2. UNITS SHALL MAINTAIN LOCAL SPACE TEMPERATURE BY THE USE OF ELECTRIC REFRIGERATION AND NATURAL GAS HEATING SECTIONS.
   - B. EXHAUST FANS
     - B.1. EXHAUST FANS TO BE CONTROLLED AS INDICATED ON THE SCHEDULES.

END

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

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SHEET CONTENTS:

MECHANICAL SPECS & LEGEND

COLORADO LICENSED
PAUL W. GIVEN
32991
PROFESSIONAL ENGINEER

PROJ. NUMBER: 4-15-03

DATE: 07-09-2015

DRAWING NUMBER:

M1.00

EXHAUST FAN SCHEDULE

PLAN MARK	MFR	MODEL NO.	LOCATION	STYLE	CFM	ESP (IN)	SONES	WEIGHT LBS	SPD	ELECTRICAL DATA VOLT	PH	HP	WATTS	REMARKS
EF-1	GREENHECK	SP-B110	TOILET	CEILING	95	0.5	2.8	15	1	115	1	--	80	(1)(2)

(1) SELECTION BASED ON 5200 FT ELEVATION
(2) COORDINATE FAN/LIGHT COMBO WITH EC FOR EXACT LOCATION IN BATHROOM.

VENTILATION SCHEDULE

ZONE	PER 2009 IMC AREA (SF)	Rp	Ra	# / 1000SF	# OCCUPANTS	Vbz	Ez	Voz	Ev	Vot
1ST FLOOR FURNACE										
OFFICE	785	5	0.06	5	4	67	0.8	84	0.9	93
WEIGHT ROOM	357	20	0.06	10	4	101	0.8	127	0.9	141
								TOTAL REQUIRED		234
								TOTAL SUPPLIED		240

Vbz = Rp * Pz + Ra * Az
Rp = OUTDOOR AIRFLOW RATE PER PERSON (CFM/ PERSON)
Ra = OUTDOOR AIRFLOE RATE REQUIRED PER UNIT AREA (CFM/ SQFT)
Az = ZONE FLOOR AREA (sqft)
Pz = ZONE POPULATION; OCCUPANTS
Vbz (CFM) = BREATHING ZONE OUTDOOR AIR FLOW
Voz = Vbz/ Ez
Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS
Voz (CFM) = ZONE OUTDOOR AIR FLOW
Vot = Vbz/ Ev
Ev = SYSTEM VENTILATION EFFICIENCY
Vot (CFM) = REQUIRED OUTDOOR AIR INTAKE FLOW

** FLOOR AREA BASED ON NET OCCUPIABLE AREA.

AIR DEVICE SCHEDULE

PLAN MARK	STYLE	MATERIAL	FIN	FACE PATT.	DAMPER	NC (MAX)	NO. SLOTS	SIZE	INLET DIA.	SLOT INCHES	REMARKS
A	SCD	STL	WHT	LF	OBD	35	--	18x18	NOTED	--	(1)
B	PDDR	STL	WHT	PF	NONE	35	--	NOTED	SAME	--	(1)

(1) REFERS TO PRICE

MECHANICAL LEGEND

- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- CDS — CONDENSER WATER SUPPLY
- CDR — CONDENSER WATER RETURN
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN

- SUPPLY UP
- SUPPLY DOWN
- RETURN UP
- RETURN DOWN
- EXHAUST UP
- EXHAUST DN
- FLEXIBLE DUCT
- TAG CFM NECK — AIR DEVICE TAG
- TAG # — EQUIPMENT TAG
- DEMO
- (POC) POINT OF CONNECTION
- (POD) POINT OF DISCONNECTION
- THERMOSTAT
- HUMIDISTAT
- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN

- CEILING SUPPLY DIFFUSER
- CEILING RETURN AIR REGISTER
- ROUND CEILING DIFFUSER
- CEILING LINEAR SUPPLY/RETURN
- SIDEWALL SUPPLY/RETURN REGISTER
- MANUAL VOLUME DAMPER
- F — FIRE DAMPER
- S — SMOKE DAMPER
- FS — FIRE SMOKE DAMPER
- ROOF TOP UNIT
- FURNACE
- CONDENSING UNIIT
- PARALLEL FAN POWERED VAV BOX
- VAV BOX

ABBREVIATIONS

(D)	DEMO
(E)	EXISTING
(N)	NEW
AAV	AIR ADMITTANCE VALVE
AD	AREA DRAIN
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
B	BOILER
BB	BASEBOARD
BF	BOOSTER FAN
BFP	BACKFLOW PREVENTER
BT	BATH TUB
BV	BALL VALVE
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CS	CLINICAL SINK
CU	CONDENSING UNIT
CV	CHECK VALVE
CUH	CABINET UNIT HEATER
DCW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DHW	DOMESTIC HOT WATER
DSN	DOWN SPOUT NOZZLE
EVC	EVAPORATIVE COOLER
EC	ELECTRICAL CONTRACTOR
ECO	END OF LINE CLEANOUT
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ERU	ENERGY RECOVERY UNIT
ER	EXISTING REMOVED
ERR	EXISTING REMOVED & RELOCATED
EW	EMERGENCY EYEWASH
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FURNACE
FCO	FLOOR/GRADE CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FS	FLOOR SINK
G	GAS
GC	GENERAL CONTRACTOR
GM	GAS METER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GAS REGULATOR
GUH	GAS UNIT HEATER
GW	GREASE WASTE
GWH	GAS WATER HEATER
HB	HOSE BIB
HP	HEAT PUMP
HX	HEAT EXCHANGER
IM	ICE MAKER BOX
LAV	LAVATORY
LS	LAUNDRY SINK
MAU	MAKE-UP AIR UNIT
MC	MECHANICAL CONTRACTOR
MF	MEASURE FLOW
NIC	NOT IN CONTRACT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
ORD	OVER FLOW ROOF DRAIN
P	PUMP
PC	PLUMBING CONTRACTOR
PFT	PARALLEL FAN TERMINAL
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	PRESSURE GAUGE
RA	RETURN AIR
RAR	RETURN AIR REGISTER
RD	ROOF DRAIN
RE	RELOCATE EXISTING
RH	RADIANT HEATER
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAR	SUPPLY AIR REGISTER
SF	SUPPLY FAN
SFT	SERIES FAN TERMINAL
SH	SHOWER
SK	SINK
SOI	SAND/OIL INTERCEPTOR
SS	SERVICE SINK
T&P	TEMPERATURE & PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
UR	URINAL
VAV	VARIABLE AIR VOLUME
VVT	VARI TRAC
WB	WASHER BOX
WC	WATER CLOSET/WATER COLUMN
WCO	WALL CLEANOUT COLUMN
WH	WALL HYDRANT

THIS SHEET OF DRAWINGS HAS NOT BEEN REVIEWED FOR CODE COMPLIANCE.

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FOUNTAIN VILLAGE OFFICE RENOVATION

12000 E. KANSAS DRIVE AURORA, CO 80012

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SHEET CONTENTS:
MECHANICAL SCHEDULES

COLORADO LICENSED
JEFF W. GIVEN
32995
PROFESSIONAL ENGINEER

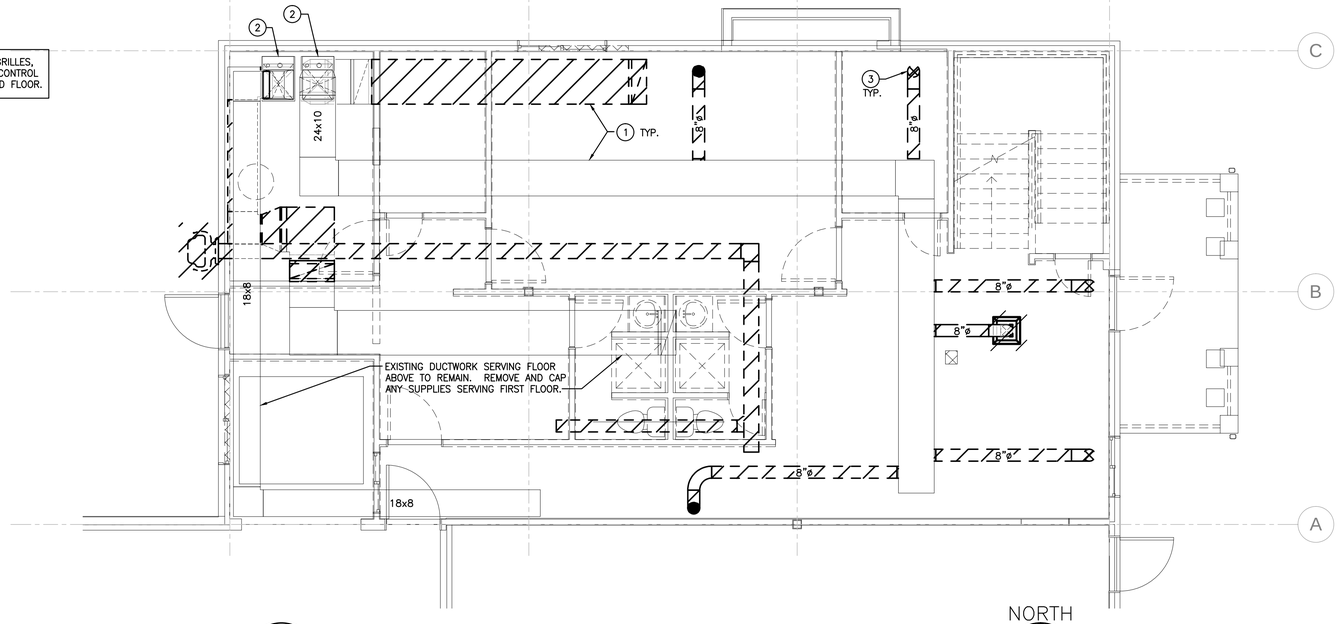
PROJ. NUMBER: 4-15-03
DATE: 07-09-2015

DRAWING NUMBER:
M1.01

DRAWING NOTES:

1. REMOVE DASHED EQUIPMENT AND DUCTWORK. RETAIN EXISTING EQUIPMENT FOR FUTURE CONNECTION UNDER NEW WORK.
2. RETAIN FURNACES FOR RE-USE UNDER NEW WORK. ENSURE EQUIPMENT TO REMAIN IS PROTECTED FROM DAMAGE.
3. REMOVE DUCT AND DIFFUSER AND PATCH FLOOR.
4. SERVICE FURNACE AND ENSURE PROPER OPERATION. REPLACE FILTERS AND CLEAN. ADJUST OUTSIDE AIR TO VALUE SHOWN ON SCHEDULE M1.01.
5. EXHAUST DUCT TO WEATHER PROOF WALL CAP. PATCH WALL WEATHER TIGHT AND TO MATCH SURROUNDING.
6. ROUTE DUCTWORK WITHIN JOIST SPACE WHENEVER POSSIBLE. COORDINATE ALL INSTALLATION WITH OTHER TRADES. FIELD VERIFY EXISTING CONDITION PRIOR TO BID.
7. MOUNT NEW THERMOSTAT 42" AFF. COORDINATE WITH OTHER TRADES.
8. SERVICE FURNACE AND ENSURE PROPER OPERATION. REPLACE FILTERS AND CLEAN. SERVES RESIDENT ABOVE PROJECT SPACE.

DEMO MECHANICAL DUCTWORK, GRILLES, DIFFUSERS, THERMOSTATS, AND CONTROL WIRING LOCATED ON THE SECOND FLOOR.



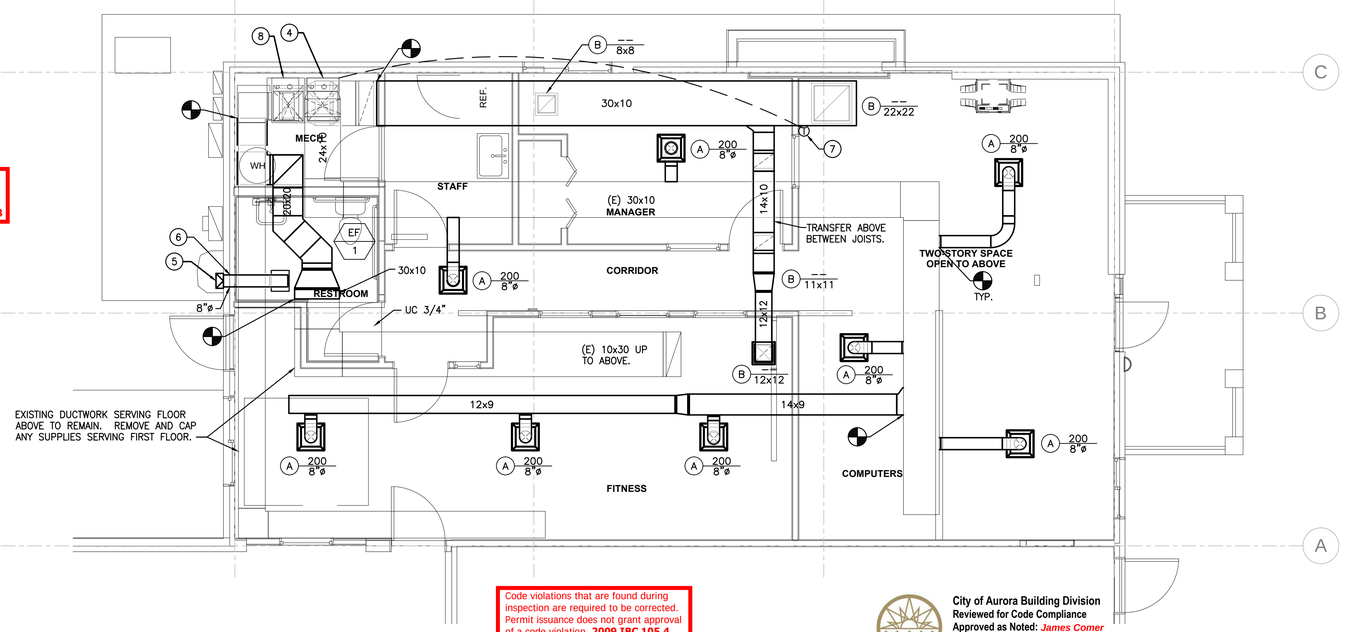
2 / M2.01 FIRST FLOOR MECHANICAL PLANS – DEMO

4' 2' 0 4' 8'

1/4"=1'-0"

NORTH

Heating system shall be capable of maintaining 68 degrees F at 3'-0" above the floor.
2009 IMC 309, IBC 1204.1, IRC R303.8



Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. **2009 IBC 105.4**

1 / M2.01 FIRST FLOOR MECHANICAL PLANS

4' 2' 0 4' 8'

1/4"=1'-0"

NORTH

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *James Comer*
Date: *Nov 30, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

RSN: *1063633*
Permit #: *15-1024782*

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FIRST FLOOR MECHANICAL PLANS

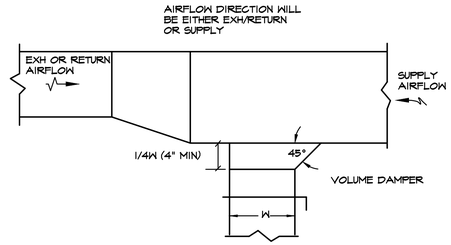
COLORADO LICENSED
JEFFREY W. GIVEN
32961
PROFESSIONAL ENGINEER

PROJ. NUMBER: 4-15-03

DATE: 07-09-2015

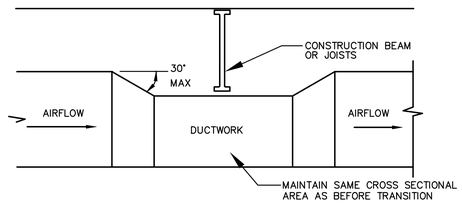
DRAWING NUMBER:

M2.01



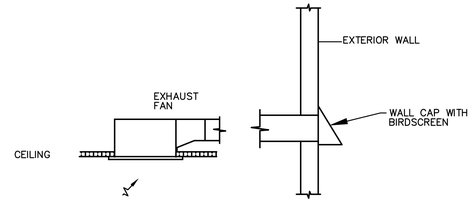
3 M5.00 BRANCH DUCT DETAIL

N.T.S.



3 M5.00 DUCT TRANSITION DETAIL

N.T.S.



3 M5.00 EXHAUST FAN DETAIL

N.T.S.

Code Violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. per 2009 IBC 105.4.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *James Comer*
Date: *Nov 25, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

RSN: *1063633*
Permit #: *15-1024782*

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SHEET CONTENTS:

MECHANICAL DETAILS

COLORADO LICENSED
PROFESSIONAL ENGINEER
32991

PROJ. NUMBER.: 4-15-03

DATE.: 07-09-2015

DRAWING NUMBER.:

M5.00

ELECTRICAL SPECIFICATIONS

THIS SHEET SPECIFICATION SHALL COVERN IN LIEU OF SEPARATE BOUND SPECIFICATIONS. IF BOUND SPECIFICATIONS ARE ALSO ISSUED WITH THE JOB THEN THE MORE STRINGENT REQUIREMENT BETWEEN THE TWO SHALL PREVAIL. CONTACT ARCHITECT/ENGINEER AT TIME OF BID IF CLARIFICATION IS REQUIRED.

1. BASIC REQUIREMENTS
   - A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT LOCAL CODES, ORDINANCES, AND REGULATIONS, NATIONAL ELECTRIC CODE, LOCAL HEALTH DEPARTMENT REGULATIONS, AND APPLICABLE NFPA CODES. PAY FOR ALL FEES AND PERMITS AS ARE NECESSARY FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS INCLUDING UTILITY CHARGES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL UTILITY REQUIREMENTS.
   - B. PROJECT SHALL INCLUDE ALL ITEMS NECESSARY FOR COMPLETE AND FULLY OPERATIONAL TENANT AND BUILDING ELECTRICAL SYSTEMS. MAKE CONNECTIONS TO AND EXTEND SYSTEMS INSTALLED BY OTHERS AND/OR FURNISHED BY OTHERS. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR COMPLETE AND FULLY OPERATIONAL SYSTEMS WHETHER OR NOT SPECIFICALLY SPECIFIED AND/OR SHOWN ON THE PLANS.
   - C. DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS BY OTHERS FOR DIMENSIONS AND FOR ESTIMATING DISTANCES. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS RELATING TO THE JOB WETHER OR NOT INDICATED ON THESE DRAWINGS.
   - D. ANY SCALE, DIMENSION OR QUANTITIES SHOWN ON THE DRAWINGS ARE FOR ENGINEERING CALCULATION PURPOSES ONLY. THE ELECTRICAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ESTIMATING AND DETERMINING ALL DISTANCES AND QUANTITIES RELATED TO THE PROJECT. REFER TO ARCHITECTURAL OR CIVIL DRAWINGS BY OTHERS AND VERIFY EXISTING CONDITIONS ON SITE FOR ALL ESTIMATING PURPOSES.
   - E. COORDINATE WITH OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE. WHERE CROWDED CONDITIONS EXIST, PREPARE COORDINATION DRAWINGS SHOWING ALL TRADE CONFLICTS AND SUBMIT TO ARCHITECT FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN AND/OR INSTALLATION. RELOCATION OF OUTLETS AND/OR DEVICES MADE PRIOR TO ROUGH-IN SHALL BE DONE AT NO ADDITIONAL COST.
   - F. ALL WORK SHALL BE PERFORMED BY PROPERLY LICENSED ELECTRICIANS OR UNDER THEIR DIRECT SUPERVISION. ALL MATERIALS AND EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE APPLICABLE STANDARDS OF UL AND SHALL BEAR THE UL LABEL AS EVIDENCE THAT THE MATERIAL AND/OR EQUIPMENT MEETS THIS REQUIREMENT.
   - G. SUBMIT MANUFACTURERS LITERATURE (SHOP DRAWINGS) FOR RACEWAYS AND FITTINGS, BOXES, WIRE, CABLES, WIRING DEVICES, NAME PLATES, LEGEND PLATES, LABELS, PANELBOARDS, FUSES, CIRCUIT BREAKERS, SWITCH GEAR, AND SAFETY SWITCHES. SUBMITTAL SHALL BEAR THE APPROVAL OF THE GENERAL CONTRACTOR FOR COMPLIANCE WITH COORDINATION AND THESE SPECIFICATIONS PRIOR TO SUBMITTAL TO ARCHITECT AND/OR HIS AGENCIES.
   - H. ALL SWITCH BOARDS, DISTRIBUTION BOARDS, PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND SIMILAR ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH ENGRAVED PLASTIC-LAMINATE LABELS INDICATING THE EQUIPMENT NAME SPECIFIED ON THE PLANS OR THE LOAD SERVED BY THE EQUIPMENT. ALL PANELBOARDS SHALL BE PROVIDED WITH REMOVEABLE, TYPED PANEL SCHEUDLES WITH CLEAR PLASTIC COVERS AFIXED TO THE FACE OR INSIDE OF THE PANEL DOOR. PANEL SCHEDULES SHALL CLEARLY INDICATE THE SPECIFIC LOAD SERVED BY EACH INDIVIDUAL CIRCUIT BREAKER OR DISCONNECT SWITCH AND SHALL REFLECT THE FINAL, AS-BUILT CONDITIONS AT COMPLETION OF WORK. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. SPARE POSITIONS SHALL BE LABELED ACCORDINGLY.
   - I. CONTRACTOR SHALL THOROUGHLY REVIEW THE PLANS AND SPECIFICATIONS OF ALL DIVISIONS AND TRADES, ESPECIALLY THE ARCHITECTURAL DRAWINGS. ELECTRICAL REQUIREMENTS OF OTHER TRADES AND DIVISIONS INCLUDING PRODUCTS SPECIFIED, MOUNTING INSTRUCTIONS, AND MATERIAL SELECTIONS SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. IF A CONFLICT EXISTS, CONTRACTOR SHALL OBTAIN A CLARIFICATION AND DIRECTIONS FROM THE ARCHITECT PRIOR TO ROUGH IN OR PROCEEDING WITH THE WORK.
   - J. FURNISHED EQUIPMENT.
     - a. MAKE FINAL CONNECTIONS TO FURNISHED EQUIPMENT AS REQUIRED.
     - b. RECEIVE AND COMPLETELY INSTALL FURNISHED EQUIPMENT, MATERIALS, AND APPARATUS FURNISHED BY OTHERS FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM.
     - c. REVIEW CONSTRUCTION DOCUMENTS AND INSTALLATION INSTRUCTIONS FOR MATERIALS AND EQUIPMENT FURNISHED FOR INSTALLATION BY THIS CONTRACTOR. INSTALL ALL EQUIPMENT AND APPARATUS IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND SUGGESTED PRACTICES. PROVIDE SUPPLEMENTAL AND INCIDENTAL MATERIALS INCLUDING CORDS, PLUGS, AND RECEPTACLES AS MAY BE REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM.
     - d. CONFIRM ALL CONNECTION REQUIREMENTS AND ROUGH-IN CONDITIONS PRIOR TO INSTALLATION. CERTAIN DATA IS GIVEN BUT NOT GUARANTEED. PROVIDE ROUGH-IN AND FINAL TERMINATION INCLUDING APPROPRIATE PLUGS AND DISCONNECTS AS MAY BE REQUIRED. PREPARE A DETAILED ROUGH-IN DRAWING FOR APPROVAL PRIOR TO ROUGH-IN.
   - H. CONFIRM ACTUAL VOLTAGES, PHASE AND CHARACTERISTICS OF EXISTING EQUIPMENT AND APPARATUS AND EQUIPMENT AND APPARATUS FURNISHED BY TENANT, OTHER TRADES, AND/OR DIVISIONS. CONFIRM PRIOR TO ROUGH-IN. IF DISCREPANCIES ARE NOTED TO THE INSTRUCTIONS OF THESE PLANS AND SPECIFICATIONS, SUBMIT THE NOTED DISCREPANCIES TO THE ARCHITECT FOR DIRECTION PRIOR TO ROUGH-N OR PROCEEDING WITH THE WORK.
   - I. ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS. PRIOR TO INSTALLATION OF ANY EXPOSED WORK THIS CONTRACTOR SHALL VERIFY AND OBTAIN ARCHITECTURAL APPROVAL OF LOCATION AND EXTENT.
   - J. UNLESS OTHERWISE SPECIFIED ALL OUTLETS ARE 18" AFF. IF OUTLET IS SPECIFIED UNDER OR ABOVE COUNTER, CONFIRM HEIGHT WITH ARCHITECT.
   - K. COORDINATE WITH MECHANICAL AND PLUMBING ENGINEERED DRAWINGS AND PROVIDE ELECTRICAL CONNECTIONS FOR ALL EQUIPMENT AS SCHEDULED, INCLUDING BUT NOT LIMITED TO ALL HVAC EQUIPMENT, PUMPS, WATER HEATERS, FIRE SMOKE DAMPERS, ETC.

2. ELECTRICAL SERVICE
   - A. 240/120 VOLT, 1 PHASE, 3 WIRE ELECTRICAL SERVICE IS EXISTING.
   - B. E.C. TO CONTACT THE LOCAL UTILITY TO VERIFY TRANSFORMER SIZE, LOCATION, CONNECTION LOCATION AND TYPE, AND TO COORDINATE INSTALLATION OF ALL UTILITY METERING AND SERVICE ENTRANCE EQUIPMENT PRIOR TO INSTALLATION OF EQUIPMENT.
   - C. E.C. TO VERIFY SCOPE OF WORK REQUIREMENTS, INCLUDING BUT NOT LIMITED TO: CONDUIT, WIRE, CONNECTION CABINETS, PULLING OF WIRE AND HOUSE KEEPING PADS. E.C. TO PROVIDE SERVICE COORDINATION AND APPLICATION.

3. DEMOLITION AND CONTINUITY OF SERVICE
   - A. ALL UNUSED ELECTRICAL RACEWAYS, DEVICES, DEVICE APPLICATIONS, WIRE AND CABLE LOCATED IN THE AREA TO BE RENOVATED SHALL BE REMOVED BACK TO THEIR EXISTING SOURCE PANELBOARD. CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF ALL EXISTING BUILDING SYSTEMS IN THE REMAINING TENANT SPACE INCLUDING PANEL DISTRIBUTION AND LIGHTING SYSTEMS LOCATED IN THE TENANT OR RUNNING THROUGH THE TENANT SPACE. RELOCATE OUTLETS, CONDUITS, WIRING, BOXES, ETC. AS NECESSARY TO ENSURE THAT INDIVIDUAL BRANCH CIRCUITS ARE NOT SHARED BETWEEN TENANT SPACES.
   - B. INFORMATION ON EXISTING ELECTRICAL EQUIPMENT, PANELS WIRING, AND DEVICES INDICATED AS BEING REUSED IN THIS PROJECT IS AS ACCURATE AS COULD BE OBTAINED FROM A CURSORY SURVEY. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS FOR THE INFORMATIONAL GUIDANCE OF THE PREDICATIONS AND LOCAL CODES. THIS CONTRACTOR SHALL MAKE NECESSARY CORRECTIONS TO EXISTING SYSTEMS AS ARE REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. SHOULD INSUFFICIENT CAPACITY, CAPABILITY, OR INCOMPATIBLE ELECTRICAL TERMINATIONS BE PRESENT THIS CONTRACTOR SHALL SUBMIT THE NOTED DISCREPANCIES TO THE ARCHITECT FOR DIRECTION PRIOR TO ROUGH-IN OR PROCEEDING WITH THE WORK.
   - C. ELECTRICAL SERVICE TO THE BUILDING MAY BE INTERRUPTED ONLY AT A TIME COORDINATED WITH AND APPROVED BY THE BUILDING MANAGER. IN GENERAL THIS WILL BE ALLOWED DURING OFF HOURS AND ON WEEKENDS FOR LIMITED PERIODS OF TIME.

4. BASIC MATERIALS
   - A. RACEWAYS AND FITTINGS: RACEWAYS EMBEDDED IN CONCRETE OR MASONRY WALLS SHALL BE IN IMC; IN HOLLOW NON MASONRY WALLS AND ABOVE CEILINGS SHALL BE EMT OR MC CABLE; RACEWAY EXPOSED TO SEVERE PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL; AND RACEWAYS BETWEEN VIBRATING EQUIPMENT SHALL BE FLEXIBLE METALLIC CONDUIT. MC CABLE IS NOT ALLOWED FOR BRANCH CIRCUIT HOMERUN CONDUITS FROM LAST DEVICE OR JUNCTION BOX TO PANELBOARD. CONDUITS IN CONTACT WITH BARE EARTH SHALL BE SCHEDULE 40 PVC.
   - B. CONDUCTORS: ALL CONDUCTORS SHALL BE COPPER RATED FOR 600 VOLTS AND HAVE MINIMUM 75 DEGREES C INSULATION. MINIMUM SIZE SHALL BE #12 AWG. ALL BUILDING WIRING SHALL BE THHN/THWN. EXTERIOR WIRING SHALL BE XHHW. COPPER CLAD OR ALUMINUM CONDUCTORS ARE NOT ACCEPTABLE. WHERE CONNECTIONS ARE MADE TO EXISTING ALUMINUM CONDUCTORS BEING REUSED IN THIS PROJECT, CONNECTIONS SHALL BE MADE WITH LOCALLY APPROVED UL LISTED COPPER TO ALUMINUM CONNECTIONS. INCREASE CONDUCTOR SIZE TO MAINTAIN A MAXIMUM 3% VOLTAGE DROP. ALL WIRES ON THE SAME LEG OR PHASE SHALL HAVE THE SAME COLOR CODE.
   - C. PROVIDE SEPARATE (DEDICATED) NEUTRAL CONDUCTOR FOR EACH DEDICATED EQUIPMENT CIRCUIT; SHARED NEUTRAL CONDUCTORS ARE NOT PERMITTED FOR DEDICATED CIRCUITS. WHERE PERMITTED, SHARED NEUTRAL CONDUCTORS SHALL BE COPPER NO. 10 AWG MINIMUM.
   - D. PROVIDE METALLIC OUTLET, PULL AND JUNCTION BOXES AS REQUIRED. ALL POWER, CONTROL, OR INSTRUMENTATION, WIRING GREATER THAN 24 VOLTS SHALL BE IN CONDUIT. TYPE NM, NMC, OR NMS CABLES ARE PERMITTED WHERE ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION AND APPROVED BY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION CHANGES DUE TO THESE CABLES USE IN LIEU OF CONDUIT. LOW VOLTAGE WIRING MAY BE PLENUM RATED IN ACCESSIBLE LOCATIONS CONCEALED FROM FINISHED AREAS AS APPROVED BY LOCAL AUTHORITIES.
   - E. PROVIDE RECEPTACLES, GFI RECEPTACLES, SPECIAL PURPOSE RECEPTACLES AND SWITCHES OF ONE MANUFACTURER. PROVIDE COMMERCIAL GRADE DIMMERS FOR CIRCUITS INDICATED. STAB-IN CONNECTION WILL NOT BE APPROVED. SEE ARCHITECTURAL DRAWINGS FOR SPECIAL MOUNTING LOCATIONS, ORIENTATION, AND COLORS. CONFIRM RECEPTACLE, SPECIAL RECEPTACLE AND SWITCH MOUNTING HEIGHT AND ORIENTATION WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE NEW OUTLETS AND DEVICES ARE INSTALLED, MAINTAIN ADA MOUNTING HEIGHTS AND REQUIREMENTS UNLESS SPECIFICALLY DIRECTED OTHERWISE.
   - F. PANELBOARDS AND SAFETY SWITCHES SHALL BE OF ONE MANUFACTURER AND SHALL BE COMPLETE WITH PROTECTIVE DEVICES, ENCLOSURES, BUSSES, GROUNDS, ISOLATED GROUND BUS, AND NEUTRAL BARS AS REQUIRED.
   - G. SWITCHBOARDS ARE TO BE PROVIDED WITH FULLY RATED HORIZONTAL BUS THROUGHOUT ENTIRE LENGTH OF GEAR. PROVIDE MEANS FOR INSTALLATION OF FUTURE SECTIONS (FUTURE BUS EXTENSIONS). PROVIDE SPACE FOR INSTALLATION OF FUTURE OVERCURRENT DEVICES, EQUAL TO 20% OF AMPERE RATING OF GEAR.
   - H. ALL MAIN CIRCUIT BREAKERS AND ANY CIRCUIT BREAKER FEEDING ANOTHER PANEL OR TRANSFORMER SHALL BE FULLY RATED (100%).
   - I. PROVIDE ARC FLASH HAZARD WARNING LABELS ON ALL ELECTRICAL EQUIPMENT PER NEC 110.16.

5. GROUNDING
   - A. PROVIDE COPPER GROUNDING CONDUCTORS AND COPPER CLAD STEEL MADE ELECTRODES IN ACCORDANCE WITH THE NEC. BARE COPPER OR GREEN INSULATED WIRE IS ACCEPTABLE.
   - B. ALL EQUIPMENT SHALL BE CONTINUOUSLY GROUNDED. AN EQUIPMENT GROUNDING CONDUCTOR IS TO BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS.
   - C. MAIN BONDING JUMPER SHALL BE SUPPLIED BY EQUIPMENT MANUFACTURER AND CONNECTED PER NEC 250.28.
   - D. MAIN EQUIPMENT BONDING JUMPER BE SUPPLIED BY EQUIPMENT MANUFACTURER AND CONNECTED PER NEC 250.102(C).
   - E. ELECTRICAL CONTRACTOR TO CONNECT BONDING JUMPER, SIZED AND CONNECTED PER NEC 250.104(B), TO ALL MECHANICAL EQUIPMENT THAT REQUIRES ABOVE GROUND METAL GAS PIPING.

6. LIGHTING
   - A. PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. FOR RECESSED FIXTURES, PROVIDE PLASTER FRAMES AND FLANGES SUITABLE FOR CEILING. CLEAN AND SERVICE FIXTURES. PROVIDE ACCESSORIES AND INCIDENTAL ITEMS AS REQUIRED FOR FIXTURES FURNISHED BY OTHERS FOR INSTALLATION.
   - B. ALL BALLASTS SHALL BE ELECTRONIC HIGH EFFICIENCY TYPE.
   - C. ALL LUMINAIRES THAT UTILIZE DOUBLE ENDED LAMPS AND CONTAIN BALLASTS THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS PER NEC 410.130(G).
   - D. PROVIDE LENSES OF SAME MANUFACTURER.
   - E. FINAL LOCATION OF ALL FIXTURES SHALL BE AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLANS AND/OR ELEVATIONS AND DETAILS.
   - F. PROVIDE FOR EACH FIXTURE A LAMP OR LAMPS OF SUITABLE TYPE, SIZE, COLOR, WATTAGE, AND VOLTAGE.
   - G. INSTALL ACCESSORIES AND MODIFY FIXTURES AS REQUIRED FOR COMPLIANCE WITH REQUIREMENTS OF LOCAL DEPARTMENT OF HEALTH. OBTAIN ARCHITECTURAL APPROVAL FOR ANY SUBSTITUTION OR MODIFICATION TO FIXTURES GIVEN.
   - H. PROVIDE TENTING OR OTHER SUITABLE MEANS TO KEEP NON-IC RATED FIXTURES A MINIMUM OF 3" (OR MANUFACTURER REQUIRED DISTANCE) FROM INSULATION.
   - I. ALL BALLASTED LUMINAIRES THAT CONTAIN ONE, THREE OR ANY ODD-NUMBERED LAMP CONFIGURATION SHALL BE TANDEM WIRED (NO SINGLE-LAMP BALLASTS), PER IECC SECTION 505.
   - J. ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS SHALL BE WIRED AHEAD OF ANY CONTROL DEVICES; FED FROM AN UNSWITCHED CIRCUIT.

7. TELEPHONE/DATA PROVISIONS
   - A. INSTALL OUTLET BOX WITH CONDUIT TO ABOVE THE CEILING. INSTALL CABINET AND/OR FIXTURE OUTLETS IN COORDINATION WITH ARCHITECTURAL AND MILLWORK DETAILS WITH CONDUITS OR RACEWAYS TO ABOVE NEW FINISHED CEILING.
   - B. PROVIDE PULL BOXES WITH PULL WIRE (ROPE) IN ALL OUTLETS.
   - C. PROVIDE COVER PLATES FOR ALL OUTLETS. COLOR SELECTED BY ARCHITECT. CONFIRM ALL MOUNTING HEIGHTS AND ORIENTATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.

8. FIRE ALARM SYSTEM
   - A. THESE DRAWINGS ARE NOT INTENDED TO SPECIFY FIRE ALARM SYSTEM REQUIREMENTS. FIRE ALARM SYSTEM REQUIREMENTS SHALL BE DETERMINED BY OTHERS.
   - B. FIRE ALARM SYSTEM SHALL BE DESIGNED, SIGNED AND SEALED BY A FIRE ALARM PROFESSIONAL AND BE APPROVED BY THE LOCAL FIRE DISTRICT.
   - C. FURNISH AND INSTALL ALL DUCT SMOKE DETECTORS AS MAY BE REQUIRED.
   - D. FURNISH AND INSTALL ALL FIRE ALARM HORNS AND LIGHTS AND STROBES AS MAY BE REQUIRED.
   - E. EXTEND AND CONNECT THE NEW FIRE ALARM APPARATUS TO THE EXISTING BUILDING FIRE ALARM SYSTEM, WHERE AVAILABLE AND SUITABLE FOR REUSE AS DETERMINED BY THE FIRE ALARM VENDOR. INSTALLATION SHALL BE BY A TRAINED AND LICENSED CONTRACTOR OF THE EXISTING EQUIPMENT MANUFACTURER.

—END—

ABBREVIATIONS

x' x"	MOUNTING HEIGHT
A / AMP	AMPERE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AG	ABOVE COUNTER GFI DEVICE
AHU	AIR HANDLING UNIT
AIC	FAULT CURRENT CAPACITY
AL	ALUMINUM
C	CONDUIT
CLG	CEILING
CU	COPPER
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
DYR	DRYER
DW	DISHWASHER
(E)	EXISTING
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENGY
EWC	WATER COOLER
EXP	EXPLOSION PROOF
G	GROUND
GD	GARBAGE DISPOSER
GFI	GROUND FAULT INTERUPTER
HD	EXHAUST HOOD
HP	HORSEPOWER
MCR	MICROWAVE
MDP	MAIN DISTRIBUTION PANELBOARD
MH	MANHOLE
MTD	MOUNTED
MVOLT	MULTI-VOLTAGE
OVN	OVEN
N	NEUTRAL
NL	NITE LIGHTING
PH	PHASE
REF	REFRIGERATOR
RNG	RANGE
RTU	ROOF TOP UNIT
TS	THERMAL SWITCH
TTB	TELEPHONE TERMINAL BOARD
UG	UNDERGROUND
V	VOLT
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WALL
WG	WEATHERPROOF GFI
WP	WEATHERPROOF
WRM	WARMING DRAWER
WSH	WASHER

DRAWING NOTES:

1. EXISTING ELECTRICAL SERVICE INCLUDING WIREWAY, METERS, DISCONNECTS SHOWN DASHED ON ONE-LINE TO BE DEMOLISHED.
2. EXISTING 240/120V, 1P, 3W, 100A UNIT PANELS ARE TO REMAIN, NO NEW LOAD ADDED TO PANEL, TYPICAL OF (3). EC TO FIELD VERIFY PANEL SIZE AND RATING. PROVIDE NEW FEEDER TO PANEL AS INDICATED.
3. PROVIDE NEW 4-SERVICE METER CENTER. BASIS OF DESIGN IS SIEMENS POWER MOD WMM411225. CONNECT TO EXISTING SECONDARY SERVICE FEEDER FROM EXISTING TRANSFORMER. EC TO FIELD VERIFY SECONDARY FEEDER SIZE AND INFORM ENGINEER IF SIZE DIFFERS THAN INDICATED ON ONE-LINE.
4. PROVIDE NEW PANEL FOR HOUSE SERVICE.
5. PROVIDE NEW FEEDERS TO EXISTING TENANT PANELS.

ELECTRICAL SYMBOL LEGEND

- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE (WALL MTD)
- DUPLEX RECEPTACLE (FLOOR MTD)
- DUPLEX RECEPTACLE (CEILING MTD)
- DUPLEX (SWITCHED)
- 4-PLEX RECEPTACLE (WALL MTD)
- SPECIAL PURPOSE RECEPTACLE
- JUNCTION BOX (WALL MTD)
- JUNCTION BOX (FLOOR MTD)
- JUNCTION BOX (CEILING MTD)
- TELEPHONE/DATA OUTLET
- TELEPHONE/DUPLEX OUTLET (FLOOR MTD)
- TELEPHONE/DATA/DUPLEX OUTLET (FLOOR MTD)
- MOTOR
- FRACTIONAL HP MOTOR WITH TOGGLE STARTER & THERMAL OVERLOAD RELAY
- DISCONNECT SWITCH (NON-FUSED)
- DISCONNECT SWITCH

- DOWNLIGHT (CEILING MTD)
- DOWNLIGHT WITH EMERGENCY BALLAST (CEILING MTD)
- WALL WASHER (CEILING MTD)
- EXTERIOR SCONCE (BRACKET MTD)
- SCONCE (WALL MTD)
- 2X2 FLUORESCENT FIXTURE (CEILING MTD)
- 2X2 FLUORESCENT FIXTURE WITH EMERGENCY BALLAST (CEILING MTD)
- 1X4 FLUORESCENT STRIP FIXTURE
- EMERGENCY BUGEYE
- EXIT SIGN (SHADE INDICATES ILLUMINATED FACE(S))
- NEW WORK
- EXISTING WORK
- DEMO WORK

- "C" PANEL ("C" INDICATES PANEL NAME)
- TELEVISION OUTLET
- TIME CLOCK WITH BATTERY
- $ SWITCH
- $_3 3-WAY SWITCH
- $_4 4-WAY SWITCH
- $_D DIMMER SWITCH
- $_T THERMAL OVERLOAD SWITCH
- $_a CONTROLLING OUTLET OR FIXTURE "a"
- OS1 OCCUPANCY SENSOR (WALL MTD) WITH (1) INTEGERAL SWITCH
- OS2 OCCUPANCY SENSOR (WALL MTD) WITH (2) INTEGERAL SWITCHES
- OC1 OCCUPANCY SENSOR (CEILING MTD)
- OC2 OCCUPANCY SENSOR (CEILING MTD) WITH CORRIDOR SENSING PATTERN

FAULT POINT	FAULT LOCATION	FAULT SOURCE POINT	AVALIBLE FAULT CURRENT	CABLE E (VOLTS)	CABLE NO. SETS	CABLE WIRE SIZE	CABLE C VALUE	CABLE LENGTH	f	M	Isc	FAULT POINT
F0	TRANSFORMER		14,800	240								F0
F1	METER CENTER	F0	13,781	240	2	#3/0	16673	20	0.060	0.944	13,005	F1
F2	PANEL "H"	F1	12,588	240	1	#1	12122	10	0.075	0.930	11,710	F2
F3	PANEL "C"	F1	9,501	240	1	#1	8826	30	0.233	0.811	7,705	F3
F4	PANEL "B"	F1	9,501	240	1	#2	8826	30	0.233	0.811	7,705	F4
F5	PANEL "A"	F1	9,501	240	1	#1	8826	30	0.233	0.811	7,705	F5

C = CABLE CONDUCTANCE FACTOR
E = LINE TO LINE VOLTAGE
Vp = TRANSFORMER PRIMARY LINE TO LINE VOLTAGE

M = 1/(1+f)
f = 1.732 x L x Isc / (C x n x E)

Vs = TRANSFORMER SECONDARY LINE TO LINE VOLTAGE
Z = TRANSFORMER IMPEDANCE
Isc = SHORT CIRCUIT CURRENT

Isc = Vp x M x Isc/Vs

Service equipment shall be permanently and legibly marked to show the available fault current and date.
2014 NEC 110.24(A)(B).

CODES AND DESIGN CRITERIA	
JURISDICTION:	AURORA, CO
ELECTRICAL CODE:	2014 NEC
ENERGY CODE:	2009 IECC

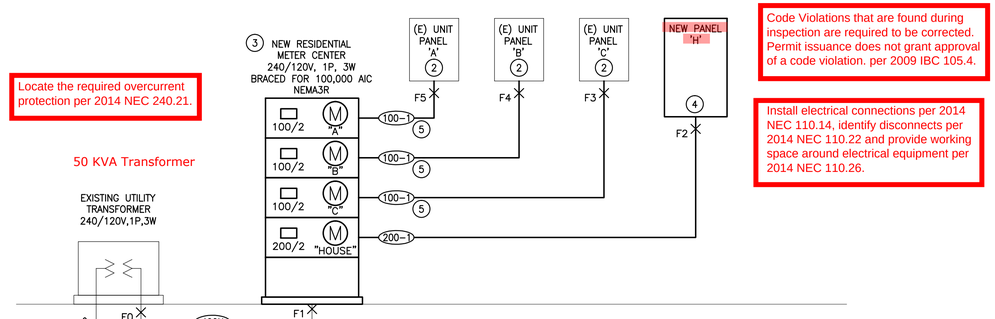
ELECTRICAL SHEET LIST	
Sheet #	SHEET NAME
E1.00	ELECTRICAL SPECS, LEGEND, ONE-LINE
E2.01	POWER PLANS
E2.01	LIGHTING PLANS
E3.00	ELECTRICAL SCHEDULES

FEEDER SCHEDULE

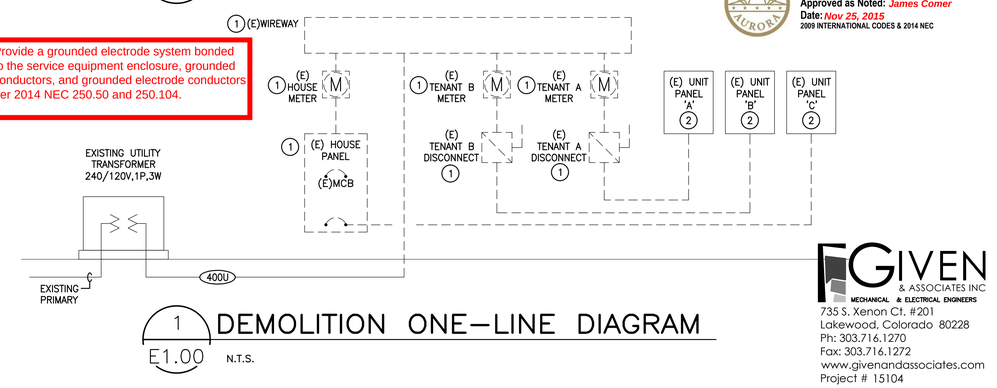
400U	2 [(4 #3/0 AWG CU) 2-1/2"PVC.]
200-1	(3 250 KCMIL AL + 1 #4 AWG AL G.) 2-1/2"C.
100-1	(3 #1/0 AWG AL + 1 #6 AWG AL G.) 2"C.

Locate the required overcurrent protection per 2014 NEC 240.21.

Provide a grounded electrode system bonded to the service equipment enclosure, grounded conductors, and grounded electrode conductors per 2014 NEC 250.50 and 250.104.



2 NEW ONE-LINE DIAGRAM
E1.00 N.T.S.



1 DEMOLITION ONE-LINE DIAGRAM
E1.00 N.T.S.

Code Violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. per 2009 IBC 105.4.

Install electrical connections per 2014 NEC 110.14, identify disconnects per 2014 NEC 110.22 and provide working space around electrical equipment per 2014 NEC 110.26.

RSN: 1063633
Permit #: 15-1024782

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: James Comer
Date: Nov 25, 2015
2009 INTERNATIONAL CODES & 2014 NEC

GIVEN & ASSOCIATES INC
MECHANICAL & ELECTRICAL ENGINEERS
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Project # 15104

architecture,pllc

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FOUNTAIN VILLAGE OFFICE RENOVATION

12000 E. KANSAS DRIVE AURORA, CO 80012

DRW: JBP
CHK: ----

REVISIONS

NO.	DESCRIPTION	DATE

ISSUE RECORD

NO.	DESCRIPTION	DATE
1	100% CD SET	07-09-2015
2		
3		
4		
5		
6		

SHEET CONTENTS:
ELECTRICAL SPECS LEGEND ONE-LINE

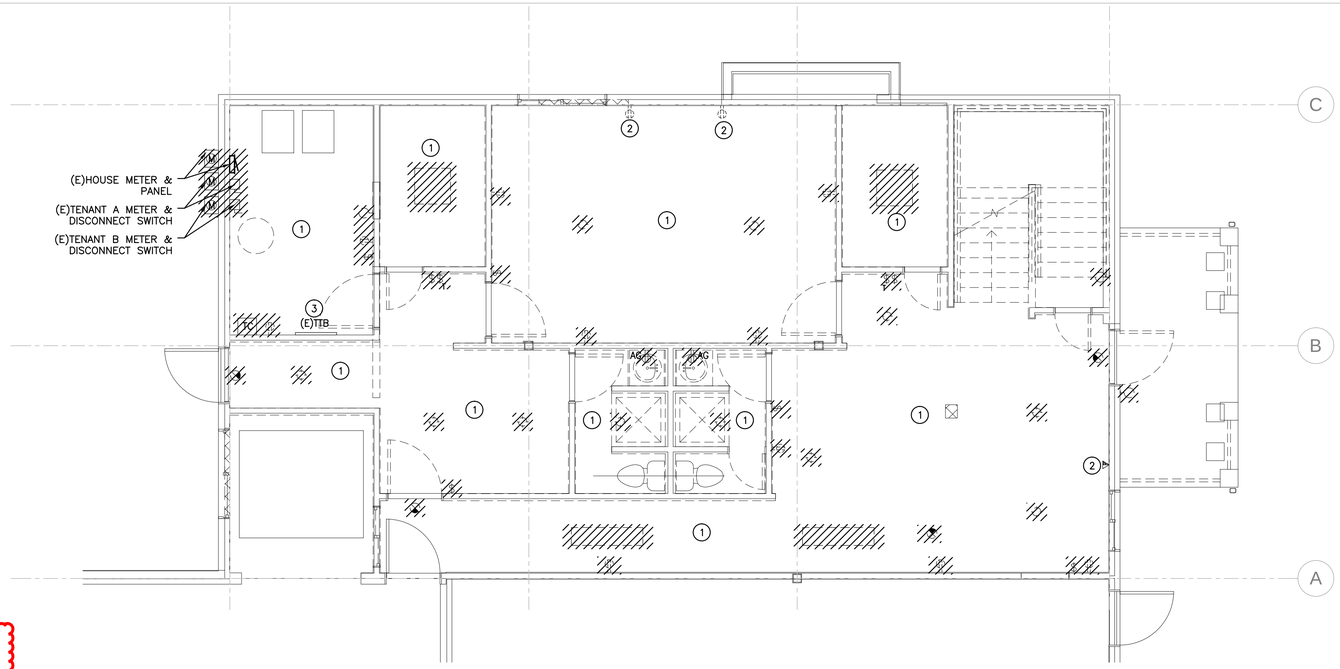
COLORADO LICENSED PROFESSIONAL ENGINEER 32981

PROJ. NUMBER: 4-15-03
DATE: 07-09-2015

DRAWING NUMBER:
E1.00

DRAWING NOTES:

1. ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND WIRE IN DARK DIAGONAL HATCH TO BE REMOVED UNLESS NOTED OTHERWISE.
2. EXISTING ELECTRICAL DEVICE TO REMAIN.
3. EXISTING TELEPHONE BOARD TO BE RELOCATED, SEE NEW LOCATION ON FLOOR PLAN. EXTEND ALL CIRCUIT AND MAINTAIN CONTINUITY AS NECESSARY.
4. PROVIDE NEW RESIDENTIAL METER CENTER WITH PROVISIONS FOR (3) 100A TENANT SERVICES AND (1) 200A HOUSE SERVICE. RE: ONE-LINE DIAGRAM FOR MORE INFORMATION.
5. NEW PANEL 'H'.
6. EXTEND AND CONNECT EXISTING FEED TO NEW PANEL LOCATION.
7. PROVIDE NEW WEATHERPROOF RECEPTACLE WITH IN-USE COVER AT EXISTING EXTERIOR LOCATIONS.
8. PROVIDE AND INSTALL (1) FLUSH FLOOR NONMETALLIC FLOOR BOX. (1) HUBBELL #S1PFB FLOOR BOX WITH FLIP LID BRUSHED ALUMINUM DUPLEX COVEPLATE #S1CFCAL & SUBPLATE #S1SPDUSL ASSEMBLED UNIT OR EQUAL. PROVIDE (1) 1-1/2" EMPTY CONDUIT STUBBED UP INTO ACCESSIBLE CEILING SPACE. PROVIDE PULLWIRE IN CONDUIT AND PLASTIC BUSHINGS ON CONDUIT ENDS. TELEPHONE/DATA CABLING AND DEVICES SHALL BE PROVIDED BY OWNERS COMMUNICATIONS SYSTEM VENDOR UNDER SEPARATE CONTRACT AS REQUIRED. ELECTRICAL CONTRACTOR SHALL PROVIDE X-RAYING OF FLOOR FOR OBSTRUCTION PRIOR TO SAW CUTTING. COORDINATE EXACT LOCATIONS, CONDUIT ROUTING, AND REQUIREMENTS WITH ARCHITECTURAL PLANS, BUILDING MANAGEMENT, COMMUNICATIONS VENDOR PRIOR TO ROUGH-IN AND ORDERING OF EQUIPMENT.



1 2 FIRST FLOOR ELECTRICAL PLANS – DEMO
E2.01
4' 2' 0 4' 8'
1/4"=1'-0"

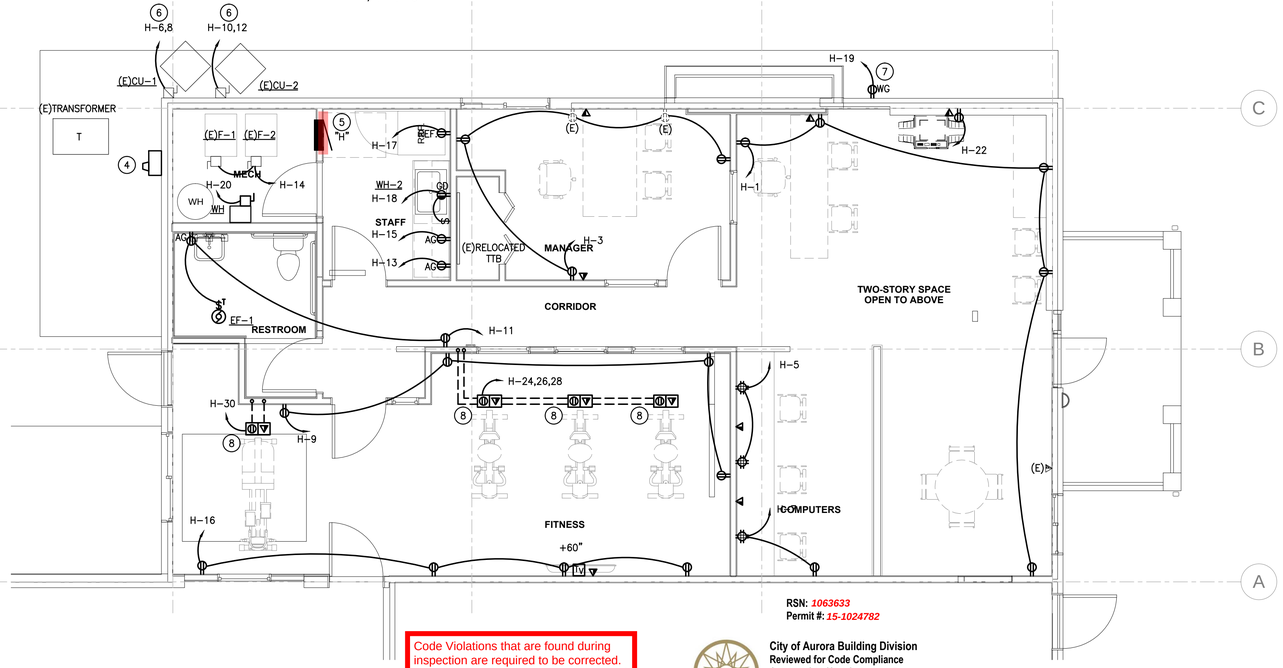
NORTH

Any receptacle within 6 feet of the outside edge of a sink shall be GFCI protected. 2014 NEC 210.8 (B) (5).

All 125 volt single phase, 15 and 20 ampere receptacles installed in bathrooms, kitchens, rooftops or outdoors shall be GFCI protected. 2014 NEC 210.8 (B)(1)(2)(3)(4).

Locate receptacles a minimum of 15" AFF and locate light switches, pull boxes and thermostats etc. a maximum of 44" AFF per 2003 ANSI A117.1 308.

Install electrical connections per 2014 NEC 110.14, identify disconnects per 2014 NEC 110.22 and provide working space around electrical equipment per 2014 NEC 110.26.



RSN: *1063633*
Permit #: *15-1024782*

Code Violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. per 2009 IBC 105.4.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *James Comer*
Date: *Nov 25, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

1 FIRST FLOOR ELECTRICAL PLANS
E2.01
4' 2' 0 4' 8'
1/4"=1'-0"

NORTH

GIVEN & ASSOCIATES INC
MECHANICAL & ELECTRICAL ENGINEERS
735 S. Xenon Ct. #201
Lakewood, Colorado 80228
Ph: 303.716.1270
Fax: 303.716.1272
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Project # 15104

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FOUNTAIN VILLAGE OFFICE RENOVATION

12000 E. KANSAS DRIVE AURORA, CO 80012

DRW	JBP
CHK	----

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SHEET CONTENTS:
FIRST FLOOR ELECTRICAL PLANS

COLORADO LICENSED JEFFREY W. GIVEN 38961 PROFESSIONAL ENGINEER

PROJ. NUMBER: 4-15-03
DATE: 07-09-2015
DRAWING NUMBER: E2.01

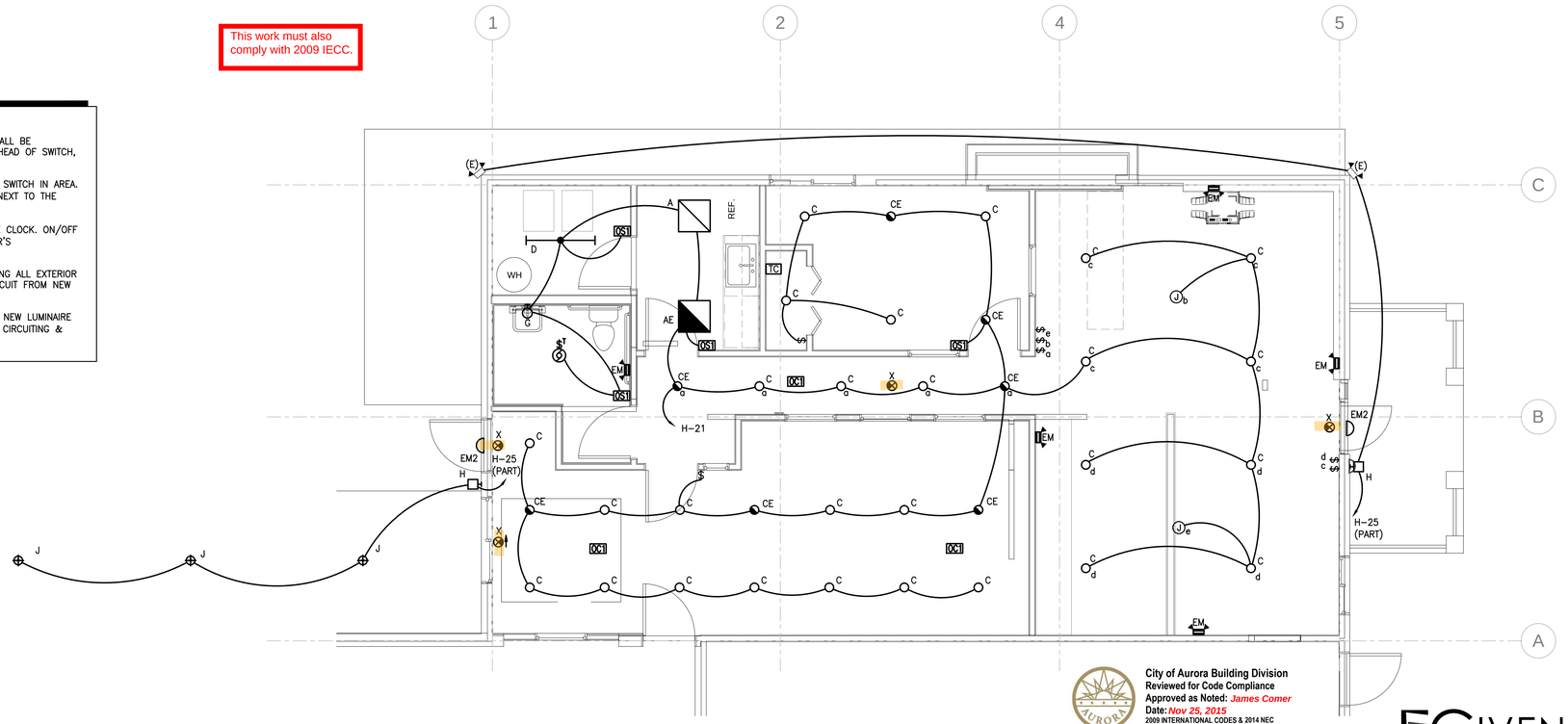
Wiring in air handling spaces must comply with 2014 NEC 300.22. Firestop penetrations per 2014 NEC 300.21. Secure and support equipment per 2014 NEC 300.11.

Code Violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. per 2009 IBC 105.4.

This work must also comply with 2009 IECC.

GENERAL NOTES:

1. ALL EXIT SIGNS (TYPE 'X') AND EGRESS LIGHTS (TYPE 'EM1') SHALL BE CONNECTED TO NORMAL LIGHTING CIRCUIT IN AREA AND WIRED AHEAD OF SWITCH, OCCUPANCY SENSOR, OR AUTOMATIC LIGHTING CONTROLS.
2. SWITCHES INDICATE WHICH LIGHT CIRCUITS ARE CONTROLLED PER SWITCH IN AREA. FOR INSTANCE SWITCH "a" CONTROLS LIGHTS WITH LETTERS "a" NEXT TO THE LIGHT FIXTURE.
3. ROUTE INTERIOR AND EXTERIOR LIGHTING CIRCUITS THROUGH TIME CLOCK. ON/OFF FUNCTIONS FOR TIME CLOCK SHALL BE PROGRAMMED PER OWNER'S INSTRUCTIONS.
4. E.C. TO FIELD VERIFY EXISTING HOUSE CIRCUIT CURRENTLY FEEDING ALL EXTERIOR LANDSCAPE AND BUILDING MOUNTING LIGHTING AND RE-FEED CIRCUIT FROM NEW HOUSE PANEL.
5. EXISTING EXTERIOR POST TOP LIGHTING TO BE RETROFITTED WITH NEW LUMINAIRE TYPE "J" - EXISTING POST TO REMAIN. E.C. TO VERIFY EXISTING CIRCUITING & SWITCHING AND REWORK CIRCUIT TO BE FED FROM NEW PANEL.



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *James Comer*
Date: *Nov 25, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

1 E2.02 FIRST FLOOR LIGHTING PLAN

4' 2' 0 4' 8'
1/4"=1'-0"

NORTH

RSN: *1063633*
Permit #: *15-1024782*

GIVEN & ASSOCIATES INC
MECHANICAL & ELECTRICAL ENGINEERS
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FOUNTAIN VILLAGE OFFICE RENOVATION

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SHEET CONTENTS:
FIRST FLOOR LIGHTING PLAN

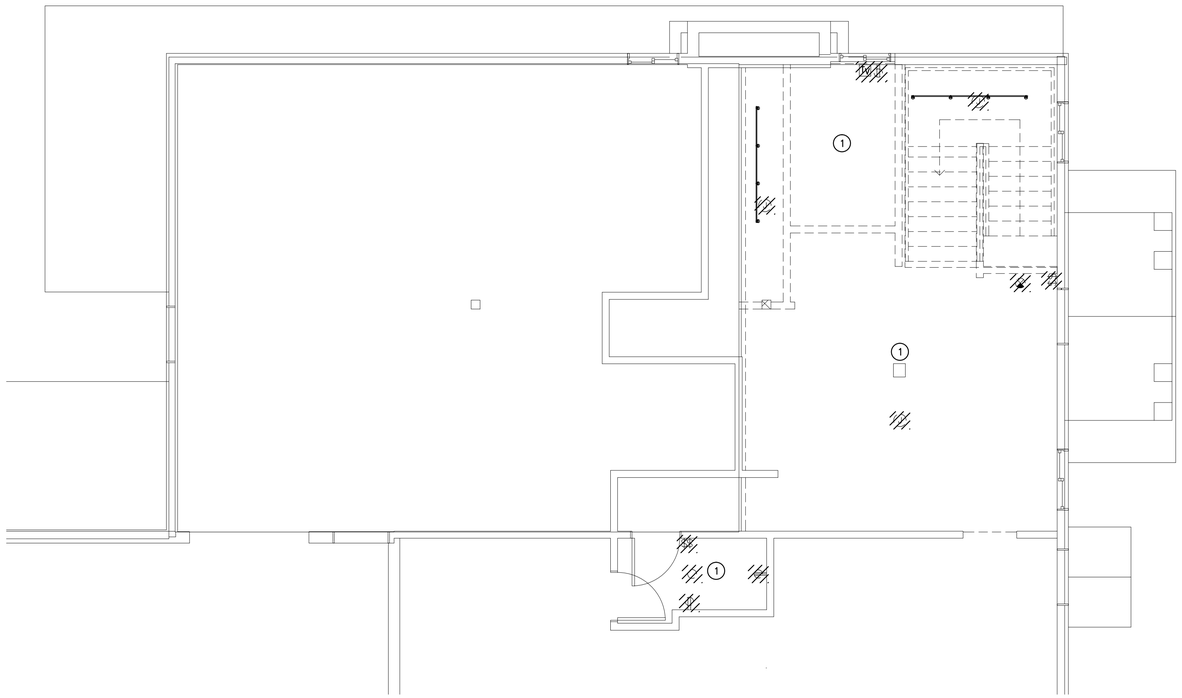
COLORADO LICENSED PROFESSIONAL ENGINEER 38295

PROJ. NUMBER: 4-15-03
DATE: 07-09-2015

DRAWING NUMBER:
E2.02

DRAWING NOTES:

1. ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND WIRE IN DARK DIAGONAL HATCH TO BE REMOVED UNLESS NOTED OTHERWISE.



NORTH

2 E2.03 SECOND FLOOR ELECTRICAL PLAN – DEMO

4' 2' 0 4' 8'

1/4"=1'-0"

Code Violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. per 2009 IBC 105.4.

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: ***James Comer***
Date: ***Nov 25, 2015***
2009 INTERNATIONAL CODES & 2014 NEC

RSN: ***1063633***
Permit #: ***15-1024782***

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FOUNTAIN VILLAGE OFFICE RENOVATION

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SHEET CONTENTS:

SECOND FLOOR ELECTRICAL PLAN

COLORADO LICENSED JOSEPH P. GIVEN 32993 PROFESSIONAL ENGINEER

PROJ. NUMBER:	4-15-03
DATE:	07-09-2015

DRAWING NUMBER:

E2.03

COMcheck Software Version 4.0.0

Interior Lighting Compliance Certificate

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: Fountain Village Apts Clubhouse
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Clubhouse (Office)	1282	1	1282
		Total Allowed Watts =	1282

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Clubhouse (Office 1282 sq.ft.)				
LED 4: G: 2' VANITY: LED Linear 8W:	1	1	7	7
LED 3: D: 4' STRIP: LED Linear 33W:	1	1	40	40
LED 2: A/AE: 2'X2': LED Panel 19W:	1	2	26	52
LED 1: C/CE: DOWNLIGHT: LED PAR 12W:	1	34	12	408
		Total Proposed Watts =		507

Section 4: Requirements Checklist

Interior Lighting PASSES: Design 60% better than code.

Lighting Wattage:

☒ 1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
1282	507	YES

Controls, Switching, and Wiring:

☒ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.

☒ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

☒ Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.

☒ Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

☒ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:

☒ Areas designated as security or emergency areas that must be continuously illuminated.

☒ Lighting in stairways or corridors that are elements of the means of egress.

☐ 5. Master switch at entry to hotel/motel guest room.

☐ 6. Individual dwelling units separately metered.

☐ 7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

☒ 8. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

Exceptions:

☒ Only one luminaire in space.

☒ An occupant-sensing device controls the area.

☒ The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

☒ Areas that use less than 0.6 Watts/sq.ft.

☐ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

Exceptions:

☐ Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.

☒ 10. Photocell/astronomical time switch on exterior lights.

Exceptions:

☒ Lighting intended for 24 hour use.

☐ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

☐ Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.0.0 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

COMcheck Software Version 4.0.0

Exterior Lighting Compliance Certificate

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: Fountain Village Apts Clubhouse
Project Type: New Construction
Exterior Lighting Zone: 2 (Residentially zoned area)

Construction Site: Owner/Agent: Designer/Contractor:

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
Front Entrance (Main entry)	3 ft of door width	20	Yes	60	13
Rear Sidewalk (Walkway < 10 feet wide)	16 ft of walkway length	0.7	Yes	11	42
Rear Door (Other door (not main entry))	3 ft of door width	20	Yes	60	13
			Total Tradable Watts* =	131	68
			Total Allowed Watts =	131	
			Total Allowed Supplemental Watts** =	600	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.
** A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Front Entrance (Main entry 3 ft of door width): Tradable Wattage				
LED: H: SCONCE: LED Other Fixture Unit 13W:	1	1	13	13
Rear Sidewalk (Walkway < 10 feet wide 16 ft of walkway length): Tradable Wattage				
LED: J: POST TOP: LED Other Fixture Unit 13W:	1	3	14	42
Rear Door (Other door (not main entry) 3 ft of door width): Tradable Wattage				
LED: H: SCONCE: LED Other Fixture Unit 13W:	1	1	13	13
			Total Tradable Proposed Watts =	68

Section 4: Requirements Checklist

Lighting Wattage:

☒ 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.
Compliance: Passes.

Controls, Switching, and Wiring:

☒ 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.

☒ 3. Lighting not designated for dusk-to-dawn operation is controlled by either a a photosensor (with time switch), or an astronomical time switch.

☒ 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.

☒ 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

Exterior Lighting Efficacy:

☒ 6. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.

Exceptions:

☐ Lighting that has been claimed as exempt and is identified as such in Section 3 table above.

☐ Lighting that is specifically designated as required by a health or life safety statue, ordinance, or regulation.

☐ Emergency lighting that is automatically off during normal building operation.

☐ Lighting that is controlled by motion sensor.

Section 5: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.0.0 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

FOUNTAIN VILLAGE CLUBHOUSE — MAIN SERVICE 'MDP'

SERVICE ENTRANCE LOAD CALCULATIONS

RESIDENTIAL: 3,000 SF

RESIDENTIAL UNITS: 3
VOLTAGE: 240 V
PHASE: 1 PH
PANEL CAPACITY: 400 A

NEC 220.84 MULTIFAMILY LOAD CALCULATION

220.84C(1)	GENERAL LIGHTING AND RECEPTACLES (3VA/SF)		
	3,000 x 3VA/SF =		9,000 VA
220.84C(2)	LAUNDRY AND APPLIANCE CIRCUITS		
	3	LAUNDRY CIRCUIT (1500VA)	4,500 VA
	6	APPLIANCE CIRCUITS (1500VA/CIRCUIT)	9,000 VA
220.84C(3)	APPLIANCE LOAD – DWELLING UNIT:		
	3	ELECTRIC RANGE	24,000 VA
	0	WARMING DRAWER	0 VA
	3	RANGE HOOD	600 VA
	3	MICROWAVE	4,200 VA
	3	ELECTRIC DRYER	15,000 VA
	3	DISHWASHER	3,600 VA
	3	REFRIGERATOR	5,400 VA
	3	DISPOSER	3,528 VA
	0	APPLIANCE	0 VA
	0	STEAM GENERATOR	0 VA
	0	JACUZZI	0 VA
	0	HOT TUB	0 VA
	3	WATER HEATER 1	13,500 VA
	0	WATER HEATER 2	0 VA
220.84C(4)	MOTORS AND LOW POWER FACTOR LOADS		
	3	BATHROOM EXHAUST FAN(S)	150 VA
	0	MOTOR	0 VA
	0	PUMP	0 VA
220.84C(5)	HEATING OR AIR CONDITIONING LOAD		
	3	FURNACE	3,816 VA
	3	CONDENSER	10,002 VA
	0	PTAC–1	0 VA
	0	PTAC–2	0 VA
	0	BASEBOARD HEATER	0 VA
		CALCULATED UNIT LOAD TOTAL:	**106,296 VA**
	APPLICATION OF DEMAND LOAD FACTOR		
FOR 3	UNIT(S)	TABLE 220.84 DEMAND FACTOR:	45%
		CALCULATED UNIT LOAD TOTAL (VA):	**47,833 VA**
		CALCULATED UNIT LOAD TOTAL (AMPS):	**199 A**

TOTAL SERVICE LOAD CALCULATION

RESIDENTIAL LOAD:	47,833 VA
HOUSE LOADS FROM ARTICLE 220 PART III:	28,152 VA
CALCULATED LOAD TOTAL (VA):	**75,985 VA**
CALCULATED LOAD TOTAL (AMPS):	**317 A**

Code Violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation. per 2009 IBC 105.4.

NEW PANEL H — TYPE:
VOLTAGE 240 / 120 — MTG: RECESSED
PHASE 1 — AIC: 22,000
WIRES 3 — LARGEST MOTOR: 696 VA
RATING 200 A
MAIN BREAKER 200 A

CD	CKT DESCRIPTION	BKR	CKT	A	C	CKT	BKR	CKT DESCRIPTION	CD
2	LEASING	20A1P	1	900	----				
	RECEPTS			500	----	2	20A1P	TIMECLOCK	5
2	MANAGER	20A1P	3	----	900				
	RECEPTS			----	500	4	20A1P	FACP	5
2	COMPUTER	20A1P	5	720	----				
	RECEPTS			1968	----	6	20A2P	(E)CU–1	5
2	COMPUTER	20A1P	7	----	540				
	RECEPTS			----	1968	8			5
2	FITNESS	20A1P	9	720	----				
	RECEPTS			1968	----	10	20A2P	(E)CU–2	5
2	RESTROOM / HALL	20A1P	11	----	460				
	RECEPTS & EF–1			----	----	12			5
2	BREAKROOM	20A1P	13	180	----				
	RECEPTS			500	----	14	20A1P	(E)F–1 & (E)F–2	5
2	BREAKROOM	20A1P	15	----	180			FITNESS	
	RECEPTS			----	720	16	20A1P	RECEPTS	2
2	REFRIGERATOR	20A1P	17	800	----				
				696	----	18	20A1P	DISPOSER	3
2	EXTERIOR	20A1P	19	----	540				
	RECEPTS			----	3000	20	35A1P	WH–1	7
1	LIGHTING	20A1P	21	1000	----				
				1000	----	22	20A1P	COPIER	5
	SPARE	20A1P	23	----	----				
				----	1000	24	20A1P	FITNESS EQUIP	5
1	EXTERIOR	20A1P	25	1000	----				
	LIGHTING			1000	----	26	20A1P	FITNESS EQUIP	5
	SPARE	20A1P	27	----	----				
				----	1000	28	20A1P	FITNESS EQUIP	5
	SPARE	20A1P	29	----	----				
				1000	----	30	20A1P	FITNESS EQUIP	5
	SPARE	20A1P	31	----	----				
				----	----	32	20A1P	SPARE	
	SPARE	20A1P	33	----	----				
				----	----	34	20A1P	SPARE	
	SPARE	20A1P	35	----	----				
				----	----	36	20A1P	SPARE	
	SPARE	20A1P	37	----	----				
				----	----	38	20A1P	SPARE	
	SPARE	20A1P	39	----	----				
				----	----	40	20A1P	SPARE	
	SPARE	20A1P	41	----	----				
				----	----	42	20A1P	SPARE	
	TOTAL VOLT–AMPS			13952	12776				

TOTAL CONNECTED LOAD		26,728	VA		111 AMPS	
TOTAL DEMAND		LOAD	DF	DEMAND		
LIGHTING	(1)	2000	1.25	2500		
RECEPTACLES	(2)	6660	10k+.5	6660	PHASE IMBALANCE [%]	
MOTORS	(3)	696	1+0.25	870	4.40%	
KITCHEN	(4)	0	1.00	0		
MISCELLANEOUS	(5)	14372	1.00	14372		
ELECTRIC HEAT	(6)	0	1.00	0		
ELEC. WATER HTG	(7)	3000	1.25	3750		
HOTEL	(8)	0	NEC	0	0 SQ FT – NEC 220.14(J)&220.42	
ELEVATOR	(9)	0	1.00	0		
TOTALS		26728		28152		
				117 AMPS		

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

TAG	DESCRIPTION	VOLT	PHASE	KW	HP	FLA	MCA	DISC. SIZE	O.C. PROTECTION CB SIZE	O.C. PROTECTION FUSE SIZE	FEEDER
(E)CU–1	EXISTING CONDENSING UNIT	240	1				16.4	30A	20A 2P		[2#12AWG +1#12AWG GND 3/4"C]
(E)CU–2	EXISTING CONDENSING UNIT	240	1				16.4	30A	20A 2P		[2#12AWG +1#12AWG GND 3/4"C]
(E)F–1	EXISTING FURNACE	120	1			1		30A	15A 1P		[2#12AWG +1#12AWG GND 3/4"C]
(E)F–2	EXISTING FURNACE	120	1			1		30A	15A 1P		[2#12AWG +1#12AWG GND 3/4"C]
EF–1	EXHAUST FAN	120	1	80W		1		30A	15A 1P		[2#12AWG +1#12AWG GND 3/4"C]
WH–1	WATER HEATER	120	1	3		25		60A	35A 1P		[2#8AWG +1#10AWG GND 3/4"C]

LUMINAIRE SCHEDULE

PLAN MARK	MOUNTING	DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	VOLTAGE	NO. OF LAMPS	LAMP TYPE	REMARKS
A	RECESSED	2'X2'	METALUX 22EN–LD1–25–UNV–L835–CD1–U–DF–22–W	120	1	26W LED	2500LM 3500K
AE	RECESSED	2'X2'	METALUX 22EN–LD1–25–UNV–EL14–L835–CD1–U–DF–22–W	120	1	26W LED	2500LM 3500K WITH 90 MIN BATT
C	RECESSED	DOWNLIGHT 6" LED	HALO PD610ED010–PDM6A835–64VC	120	1	12W LED	1000LM 3500K
CE	RECESSED	DOWNLIGHT 6" LED	HALO PD610ED010REM–PDM6A835–64VC	120	1	12W LED	1000LM 3500K WITH 90 MIN BATT
D	SURFACE	4' STRIP WRAPAROUND	METALUX 4SLWP394OND–120V	120	1	40W LED	3900LM 4000K
G	WALL MOUNT	2" VANITY LIGHT	NEO–RAY S22–DW–1L35–SR–2–U–DD–SI–S92–W	120	1	7W LED	434LM 3500K
H	WALL MOUNT EXTERIOR	SCONCE	FEISS DAKOTA OL7602ES–F	120	1	13W LED	EXTERIOR RATED
J	POST TOP EXTERIOR	POST TOP	FEISS DAKOTA OL7607ES–LED	120	1	14W LED	EXTERIOR RATED
EM	WALL MOUNT	FROG EYES	SURE–LITES APEL	120	NA	INCL.	
EM2	WALL MOUNT	EXTERIOR EMERGENCY	SURE–LITES AEL 2 31 BZ SD	120	NA	INCL.	WET LOCATION
X	PER PLAN	EXIT SIGN	SURE–LITES LPX7	120	NA	INCL	WITH BATTERY BACK–UP

RSN: *1063633*
Permit #: *15-1024782*

City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: *James Comer*
Date: *Nov 25, 2015*
2009 INTERNATIONAL CODES & 2014 NEC

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FOUNTAIN VILLAGE OFFICE RENOVATION

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SHEET CONTENTS:
ELECTRICAL PANEL SCHEDULES

COLORADO LICENSED JOHN B. PERSICHETTI 38991 PROFESSIONAL ENGINEER

PROJ. NUMBER.: 4-15-03
DATE.: 07-09-2015

DRAWING NUMBER.:

E3.00

Added Work to Original Project Scope

Date: 9-30-2015
Project Number: 14-04
City of Aurora Project Number: 15-976795 LT

City of Aurora:

The Medical Center of Aurora is requesting additional work to be included in the scope of the current project. This addition includes the conversion of 322 square feet of exam room space from semi-private to private. Please consider this for review under the current permit number shown above.

DESCRIPTION:

Revisions as indicated on the attached plans:

Cover Sheet - A0.0

Demolition Plan – A2.10

Floor/Dimension/Schedule Plan – A2.11

Ceiling Demolition/Reflected Ceiling Plan – A2.12

Elevations/Sections – A2.40

Respectfully,

Tom Thompson
Architect

RSN: *1063633*
Permit #: *15-1024782*

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