



City of Aurora
Building Division
15151 E. Alameda Parkway, 2nd Floor
Aurora, CO 80012
Phone: 303.739.7420
Fax: 303.739.7551

TO: Colorado Islamic Center
Mayraj Peer
12625 E. Euclid Dr.
Aurora, CO 80111

RE: Request for modification of fresh air ventilation requirements, exiting, toilet count at 16786 E. Iliff, Colorado Islamic Center

DATE: July 7, 2014

Sir:

Thank you for your letter describing the justification to request a alternate to the adopted building and mechanical codes design methods, specifically 2009 IMC 403.3, IBC 1004.1.1, IPC 403.1. Where there are *practical difficulties* involved in carrying out the provisions of the code, the Chief Building Official has the authority to grant a modification. The Chief Building Official is specifically limited to approving those requests for modification that do not lessen health, accessibility, life and fire safety or structural requirements. Your request of an alternate was measured against those very stringent criteria that are mandated by the adopted code. The City of Aurora Building Code Division strives to apply the code consistently in the community.

The submitted Request to use the actual occupancy load to calculate required exiting, ventilation air and plumbing requirements has been APPROVED. The actual occupant load is calculated laying out the room for the Colorado Islamic Center prayer room per the provided layout plan of the space. This modification satisfies the code intent of the adopted codes.

The submitted Request for Modification of 2003 IMC 403.3., IBC 1004.1.1, IPC 403.1 has been accepted based on the layout of the prayer room for its' intended purpose. Note that this granted modification cannot be extended to the use of another assembly space tenant that does not have the same use specifically for a Men's Prayer Hall and a Women's Prayer Hall. The modification is limited for this address to this specific tenant. If this space is reused for another assembly occupancy the requirements for ventilation, exiting, and plumbing must be met. This modification satisfies code intent.

If you have any questions regarding this decision, please do not hesitate to contact me at my office. I can be reached at 303-739-7425.

RSN: **912192**
Permit #: **2014-860667-LT**

Sincerely,

Rej Simenson
Plans Examiner Supervisor

Cc:
Scott Berg, Chief Building Official
Building Code and Contractor Appeals and Standards Board
Permit File



MAXIMUM OCCUPANCY LOAD

FOR Mens Prayer Hall

177

OCCUPANCY CLASSIFICATION: IBC A-3

CONSTRUCTION TYPE: UBC Type V-N

CODE EDITION: 2009-I-Codes/Aurora

ISSUED Effective Date: 02

MONTH: July

YEAR: 2014

BUSINESS NAME: Colorado Islamic Center

ADDRESS: 16786 E ILIFF AVE

BY ORDER OF THE CHIEF BUILDING OFFICIAL


CHIEF BUILDING OFFICIAL (or designated representative)



912192



MAXIMUM OCCUPANCY LOAD

FOR Womens Prayer Hall

40

OCCUPANCY CLASSIFICATION: IBC A-3

CONSTRUCTION TYPE: UBC Type V-N

CODE EDITION: 2009-I-Codes/Aurora

ISSUED Effective Date: 02

MONTH: July

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BY ORDER OF THE CHIEF BUILDING OFFICIAL

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912192

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

Consultation for fire extinguisher placement is available upon request. Call 303-739-7420 prior to final Life Safety inspection to verify proposed locations.

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**

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

Failure to follow the approved plans may result in an hourly to review the field changes for code compliance.



owner:

colorado islamic center

16786 East Iliff Avenue
Aurora | CO - 80013

contact: Farrukh Ghafoor
Ph: 303.693.5437

Project Description:

Conversion of existing Group B occupancy to Group A-3 occupancy - Place of Worship

Sheet Index:

Architectural:

- G-001 - Cover Sheet
- A-001 - Life Safety Plan and Analysis
- A-110 - Wall Types, UL Assembly
- A-210 - General Notes and Symbols
- A-210 - Existing Site Plan and Parking Calcs
- A-210 - Floor and Ceiling Plans and Details

Mechanical:

- M-1.0 - Mechanical Plans
- M-1.1 - Mechanical Comcheck

Plumbing:

- P-1.0 - Plumbing Demolition
- P-1.1 - Plumbing-New Plans

Electrical:

- E-0.1 - Electrical Cover Sheet
- ED-1.1 - Electrical Demo Plan
- E-1.1 - Electrical Plan
- E-2.1 - Electrical Comcheck

architect:

design studio collaborative

d s c

12625 East Euclid Drive |
Centennial | CO 80111

contact: Mayraj Peer
Ph: 720.221.5400



Colorado Islamic Center - Masjid Salaam - Occupany Change

16786 East Iliff Avenue | Aurora | CO 80013 | July 02 2014



City of Aurora Building Division

Project: **Colorado Islamic Center**
Address: **16786 E Iliff Ave**
Occupancy Group: **A-3**
Construction Type: **UBC V-N**
RSN: **912192**
Permit: **2014-860667-LT**

This plan is reviewed to **IBC** but the existing building is **NOT** converted to **IBC**. The construction type listed is **UBC**. Occupancy group is **IBC**.

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

REFLECTED CEILING LEGEND

ACOUSTIC CEILING TILE AND GRID

GYP. BOARD CEILING

CEILING MATERIAL AND HEIGHT

ACCESS PANEL

DIFFUSER

SMOKE AND HEAT DETECTORS

EXIT SIGN

SPRINKLER HEAD

CEILING LIGHT FIXTURES

FLUORESCENT STRIP - SURFACE MOUNTED

FLUORESCENT STRIP - WALL MOUNTED

FLUORESCENT - PENDANT MOUNTED

FLUORESCENT - WALL MOUNTED

FLUORESCENT - SURFACE MOUNTED

FLUORESCENT - PENDANT MOUNTED

FLUORESCENT - RECESSED

SYMBOLS LEGEND

ROOF TOP UNIT

DOOR NUMBER

WINDOW TYPE SYMBOL

PARTITION TAG/ROOF ASSEMBLY

FIRE EXTINGUISHER CABINET

EQUIPMENT DESIGNATION

TOILET ACCESSORY SYMBOL

SHOWER HEAD

FLOOR SINK

FLOOR DRAIN

OVERFLOW DRAIN AND ROOF DRAIN

SYMBOLS

& AND

~< ANGLE

@ AT

x BY

~C CENTER LINE

[CHANNEL

0 DEGREE

Ø DIAMETER

~d DOUBLE ANGLE

' FEET

" INCHES

NUMBER, POUNDS

d PENNY (NAIL)

% PERCENT

~P PLATE

+/- PLUS OR MINUS

φ SQUARE FEET

□ TUBE

⌒ ZEE

FIRE PROTECTION LEGEND

ACTUATING DEVICE

SOUNDING & VISUAL DEVICES

ROOM NAME

SYMBOLS LEGEND

ROOF TOP UNIT

DOOR NUMBER

WINDOW TYPE SYMBOL

PARTITION TAG/ROOF ASSEMBLY

FIRE EXTINGUISHER CABINET

EQUIPMENT DESIGNATION

TOILET ACCESSORY SYMBOL

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⌒ ZEE

FIRE PROTECTION LEGEND

ACTUATING DEVICE

SOUNDING & VISUAL DEVICES

ROOM NAME

SYMBOLS LEGEND

SHEET NUMBER

BUILDING SECTION TAB

NORTH ARROW

GRAPHIC SCALE

COLUMN / BEARING WALL SYMBOLS & CENTER LINES

VERTICAL ELEVATION

SPOT ELEVATION

DATUM POINT

MATCH LINE

PROPERTY LINE

FENCING (WITH POSTS)

BREAK LINE

DRAWING TITLE

KEY NOTE

ROOM NAME AND NUMBER

DETAIL/WALL SECTION TAG

PARTIAL PLAN AND DETAIL TAG

EXTERIOR ELEVATION TAG

INTERIOR ELEVATION TAG

CASEWORK ELEVATION TAG

DRAWING REVISION

FIRE HOSE CABINET

(RECESSED AND SURFACE MOUNTED)

25C

GENERAL CONSTRUCTION NOTES

1. THE WORK SHALL CONFORM TO THE APPLICABLE BUILDING CODE AND OTHER ORDINANCES AND REGULATIONS LISTED ON THE DRAWINGS AND REQUIRED LOCAL BUILDING AUTHORITIES. THE GOVERNING CODES, RULES AND REGULATIONS ARE COLLECTIVELY REFERRED TO AS "THE CODE".

2. THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND BECOME COMPLETELY FAMILIAR WITH ALL EXISTING CONDITIONS IN THE AREAS OF CONSTRUCTION PRIOR TO SUBMITTING PRICES AND STARTING WORK. THE CONTRACTOR SHALL REPORT ANY INCONSISTENCIES, CONFLICTS OR OMISSIONS HE MAY DISCOVER TO THE ARCHITECT FOR INTERPRETATION PRIOR TO PERFORMING THE WORK.

3. THE GENERAL CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL PROVIDE PUBLIC PROTECTION AS NECESSARY AND REQUIRED BY GOVERNING CITY AGENCIES.

4. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WORK OF ALL SUB CONTRACTORS AND SHALL PERFORM MISCELLANEOUS WORK AS MAY BE NECESSARY TO COMPLETE THE WORK.

5. ALL PERMITS REQUIRED BY THE LOCAL GOVERNING AUTHORITIES AND THE FIRE DEPARTMENT TO PERFORM THE WORK SHALL BE PAID FOR AND OBTAINED BY THE GENERAL CONTRACTOR.

6. ALL COSTS FOR INSPECTIONS AND OR TESTS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.

7. ALL EXISTING BUILDING MEANS OF EGRESS SHALL BE CONTINUOUSLY MAINTAINED DURING CONSTRUCTION.

8. THE GENERAL CONTRACTOR SHALL MINIMIZE INTERFERENCE OF CONSTRUCTION WORK WITH ONGOING BUSINESS IN THE EXISTING BUILDING. CONSTRUCTION AREA SHALL BE CLOSED OFF TO KEEP AREAS FREE OF DUST AND DEBRIS.

9. ALL DIMENSIONS ARE FROM EXISTING FINISHED FACE TO FACE OF NEW STUD

10. VERIFY ALL ROUGH IN DIMENSIONS FOR EQUIPMENT AND FIXTURES WITH MANUFACTURER.

11. CONTRACTOR SHALL PROVIDE ADEQUATE BLOCKING IN WALLS TO RECEIVE ALL ATTACHED EQUIPMENT, FIXTURES, MILLWORK ETC

12. PATCH ALL EXISTING CONSTRUCTION TO MATCH EXISTING MATERIALS AND FINISHED WHERE DISTURBED BY NEW CONSTRUCTION.

13. PROVIDE SEALANT AROUND ALL PLUMBING FIXTURES, PIPING AND EQUIPMENT ABUTTING OR PENETRATING A WALL OR PARTITION. COLOR AS SELECTED BY THE OWNER.

14. ALL OPENINGS THROUGH FIRE RATED ASSEMBLIES SHALL BE FIRE-SAFED OR SEALED TO MAINTAIN EXISTING RATING.

15. THE CONTRACTOR SHALL MAINTAIN THE EXISTING STRUCTURAL AND FIREPROOFING INTEGRITY IN THE ENTIRE AREA OF WORK.

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL COORDINATE AND IMPLEMENT ALL SAFETY MEASURES REQUESTED AND REQUIRED BY THE LOCAL FIRE MARSHAL, HEALTH DEPARTMENT, BUILDING OFFICIALS AND OTHER GOVERNING AGENCIES.

2. SURVEY EXISTING CONDITIONS AND COORDINATE WITH REQUIREMENTS INDICATED TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.

3. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMIAN OR ADJOINING CONSTRUCTION. CUT OR DRILL FROM EXPOSED OR FINISHED SIDE INTO CONCEALED SURFACES TO AVOID MARRING EXISTING FINISHED SURFACES.

4. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS THAT CONFLICT WITH INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT AND PROMPTLY SUBMIT A REQUEST FOR INFORMATION TO THE ARCHITECT.

5. DISRUPTION OF THE UTILITIES TO THE EXISTING BUILDINGS SHALL BE COORDINATED WITH THE OWNER PRIOR TO THE PLANNED DISRUPTION.

6. USE TEMPORARY DUST PARTITIONS TO PROTECT THE EXISTING BUILDING AND CONTENTS DURING CONSTRUCTION ACTIVITIES.

7. THE CONTRACTOR SHALL COORDINATE THE SALVAGE OF EXISTING MATERIALS AND EQUIPMENT WITH THE OWNER. THE OWNER RETAINS SALVAGE RIGHTS TO MATERIALS AND EQUIPMENT REMOVED FROM THE BUILDING AS PART OF THIS PROJECT.

8. REMOVE, TRANSPORT AND DISPOSE DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACE AREAS.

9. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON SITE. TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE THEM.

10. ON SITE SALE AND/OR DISPOSAL OF AND/OR BURNING OF DEMOLISHED ITEMS IS NOT PERMITTED.

11. PROTECT STAIRS, CORRIDORS AND OTHER BUILDING FACILITIES DURING SELECTIVE DEMOLITION OPERATIONS.

12. THE CONTRACTOR SHALL KEEP ALL EXIT WAYS FREE OF STORED MATERIALS AND CONSTRUCTION DEBRIS AT ALL TIMES IN ORDER TO GIVE OCCUPANTS CLEAR ACCESS TO EXIT WAYS.

13. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE SELECTIVE DEMOLITION OPERATIONS BEGAN

14. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY CONDITION DAMAGED BY CONSTRUCTION ACTIVITIES

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

RSN: 912192
Permit #: 2014-860667-LT

design studio collaborative d s c

12625 East Euclid Drive | Centennial | CO-80111
p: 720.221.5400

Colorado Islamic Center - Masjid Salaam - Occupany Change

16786 East Iliff Avenue
Aurora CO

Owner:
Colorado Islamic Center
16786 East Iliff Avenue
Aurora | CO - 80013
Phone: 303.353.9392

Architect:
Design Studio Collaborative
12625 East Euclid Drive
Centennial | CO 80111
Ph: 720.221.5400

Mechanical / Electrical:
JCAA Consulting Engineers
4100 Wadsworth Boulevard
Wheat Ridge | CO 80211
Ph: 303.985.3260

ISSUED:
PERMIT SET - 2014.07.02

Seal:


Key Plan:

Project Number 0000
Date 2014.07.02

General Notes and Symbols Legend

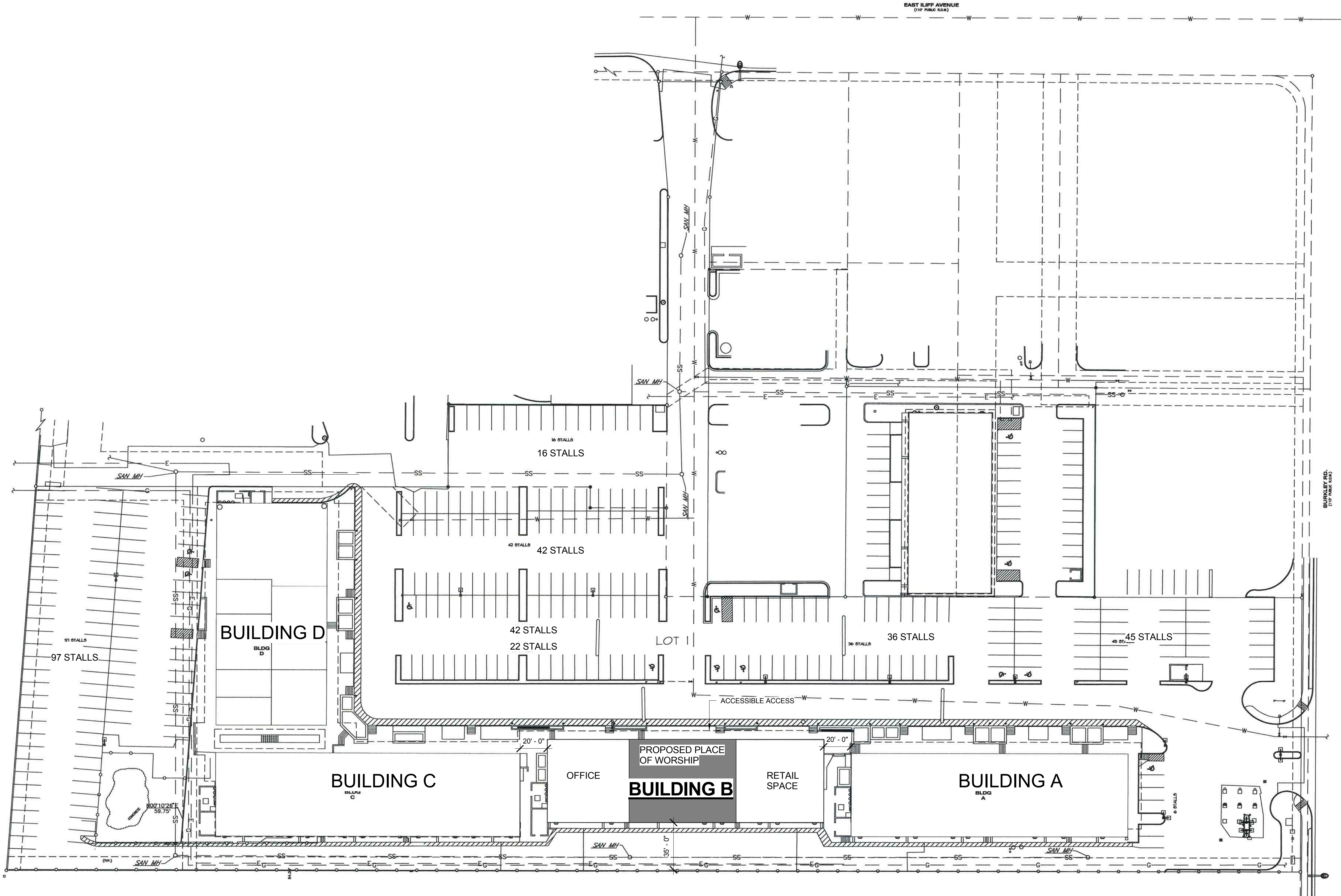
A-001

PARKING CALCULATIONS						
	BUILDING A	BUILDING B	BUILDING C	BUILDING D	TOTAL	PARKING
BUSINESS GROUP B	12,000 SF	3,450 SF	800 SF	4,000 SF	25,000 SF	1/300 GSA 84
ASSEMBLY GROUP A-2				2,600 SF	2,600 SF-15 seats	1 PER 3 OCCUPANTS 05
ASSEMBLY GROUP A-3		4,661 SF 215 OCC.	7,200 SF - 259 OCC.	5,400 SF - 195 OCC.		1 PER 4 OCCUPANTS 168
MERCANTILE GROUP M		3,600 SF			3,600 SF	4/300 GSA 08
EDUCATIONAL GROUP E			4,800 SF 78 students		4,800 SF	1/5 students 16

PARKING CALCULATIONS						
	Midnight-7am	7am - 6pm	6pm-Midnight	Midnight-7am	7am - 6pm	6pm-Midnight
BUSINESS GROUP B	5%of 84=5	100%of 84=84	5%of 84=5	0%	5%of 84=5	0%
ASSEMBLY GROUP A-2	50%of 05=3	70%of 05=4	100%of 05=05	70%of 05=4	45%of 05 =3	100%of 05=05
ASSEMBLY GROUP A-3	0%	30%of 168=52	50%of 168=84	0%	100%of168=168	75%of 168=126
MERCANTILE GROUP M	0%	100%of 8 =8	80%of 8=7	0%	100%of 8=8	60%of 8=5
EDUCATIONAL GROUP E	0%	100%of 16 =16	0%	0%	0%	0%
TOTAL	08	164	101	4	184	136

PARKING REQUIRED = 184 | TOTAL EXISTING PARKING = 306

NOTE: BUILDING SQUARE FOOTAGES AND PARKING COUNT BASED ON AURORA CITY RECORDS, PERMIT NUMBER 09-401324 DATED DECEMBER 29 2009. PARKING COUNT AND SQUARE FOOTAGE UPDATED IN **BUILDING B** TO REFLECT PROPOSED OCCUPANCY CHANGE



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

Owner:

Colorado Islamic Center
16786 East Iliff Avenue
Aurora | CO - 80013
Phone: 303.353.9392

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ISSUED:
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Key Plan:

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Date 2014.07.02

Existing Site Plan and
Parking Calculation

VENTILATION CALCULATION						
ROOM	SQ. FT.	CFM/SQ. FT.*	CFM/PERS.*	PPL/1,000 SQ. FT.*	# PEOPLE*	CFM OSA
MEN'S PRAYER	2461	0.06	5	120	296	1628
UTILITY	63	0.12	-	-	-	8
STORAGE	186	0.12	-	-	-	23
MEN'S RR	107	-	-	-	-	0
PANTRY	760	0.06	-	-	-	46
WOMEN'S RR	29	-	-	-	-	0
WOMEN'S PRAYER	327	0.06	5	120	39	215
OFFICE	328	0.06	5	5	2	30

*VALUE BASED UPON 2009 INTERNATIONAL MECHANICAL CODE

SHEET NOTES:

- REMOVE AND REPLACE EXISTING CONSTANT VOLUME ROOFTOP UNIT WITH EQUIVALENT NEW GAS HEAT/DX COOLING UNIT WITH THE FOLLOWING PERFORMANCE LISTED BELOW. PROVIDE NEW GAS SHUT-OFF VALVE, 6" LONG DIRT LEG AND ANY NECESSARY DUCT TRANSITIONS, ROOF CURB, OR CURB ADAPTER AS NEEDED. PLACEMENT OF THERMOSTAT IS BY ARCHITECT. PROVIDE GRAVITY OUTDOOR AIR DAMPER TO CLOSE WHEN UNIT IS OFF.
1,990 TOTAL CFM
488 CFM FIXED OUTSIDE AIR
4 TONS NOMINAL COOLING - MINIMUM 13.0 SEER
80 MBH HEATING OUTPUT CAPACITY - 80% MINIMUM EFFICIENCY
5HP OR LESS
208/230V 1PH POWER
- EXISTING UNITS ARE ASSUMED TO BE SERVICEABLE CONDITION. RE-BALANCE OUTDOOR AIR TO PROVIDE A MINIMUM OF 488 CFM.
- PROVIDE 1/2" UNDERCUT ON DOOR TO ALLOW TRANSFER AIR FOR EXISTIN EXHAUST FAN(S).
- PROVIDE NEW PROGRAMMABLE THERMOSTATS FOR ALL (4) UNITS. MOUNT WHERE INDICATED AT 4'-6" AFF, UNLESS DIRECTED OTHERWISE BY THE ARCHITECT.
- EXHAUST FAN, EE-1. GREENHECK MODEL SP-880 OR APPROVED EQUIVALENT. 75 CFM @ 0.25"W.C. 115V/1PH. OPERATE VIA WALL SWITCH LOCATED BY ARCHITECT.

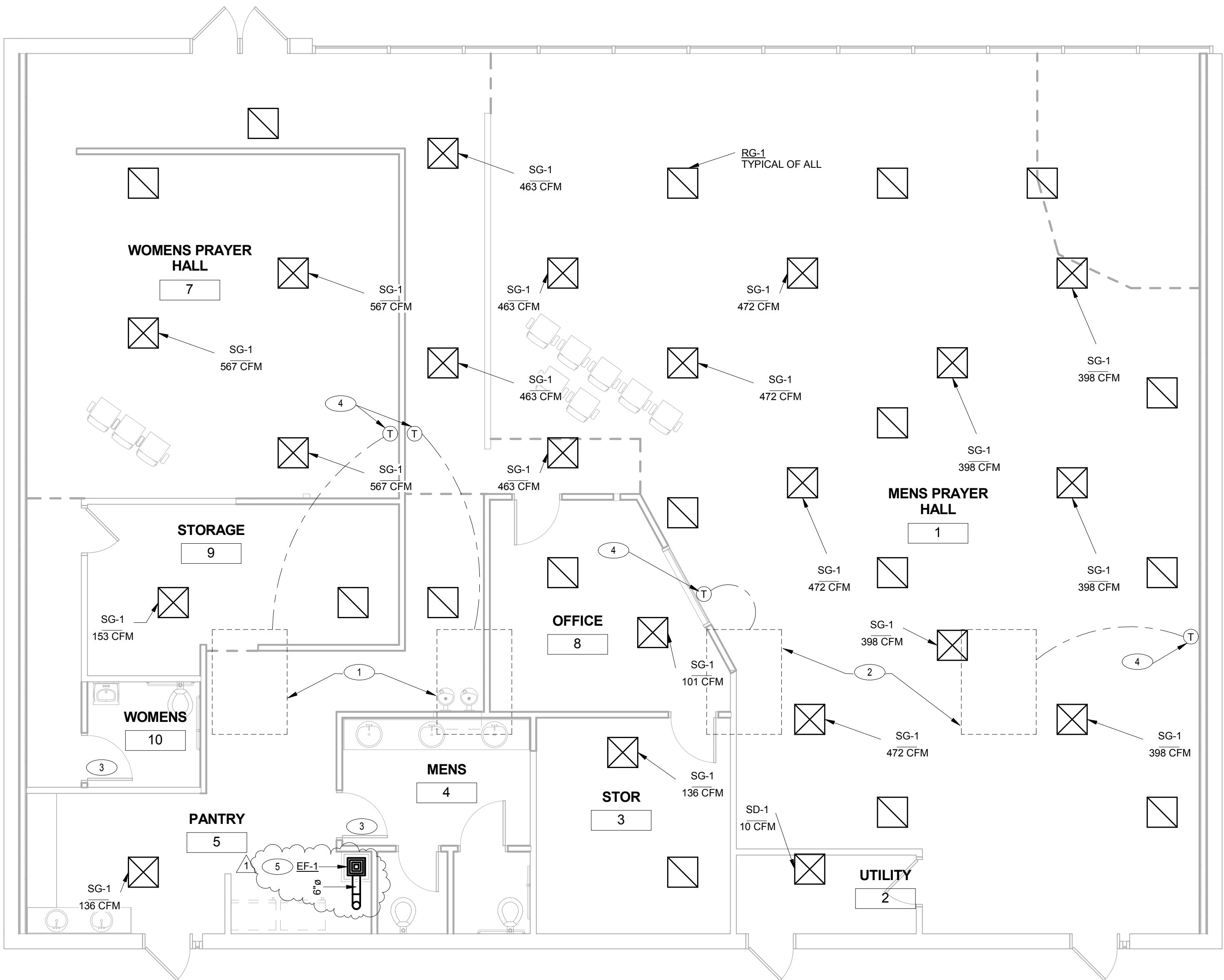
ACCEPTABLE MANUFACTURERS:

TRANE
CARRIER
MC QUAY
AAON
OTHERS UPON PRE-APPROVAL

GENERAL NOTES:

- CONTRACTOR TO INSPECT SUPPLY AND RETURN DUCTWORK IN CEILING PLENUM FOR GENERAL DEFICIENCIES AND PROVIDE COST ESTIMATE FOR REPAIRS.
- UNLESS OTHERWISE NOTED, ALL DUCT MAINS AND BRANCES, ELECTRICAL DISTRIBUTION, AND GAS PIPING IS TO REMAIN AS-IS.
- RELOCATE SUPPLY DIFFUSER(S), SD-1, TO LOCATIONS SHOWN, PROVIDE ANY NECESSARY DUCTWORK, AND BALANCE DIFFUSER FLOW TO VALUES INDICATED. IF NO DIFFUSER IS AVAILABLE, PROVIDE PRICE MODEL SCD THE FOLLOWING NECK SIZES:
AIR FLOW (CFM)NECK SIZE (IN.)
0-250 6
250-400 8
400-600 10
- RELOCATE RETRUN GRILLE(S), RG-1, TO LOCATIONS SHOWN AND PROVIDE ANY NECESSARY DUCTWORK. IF NO GRILLE IS AVAILABLE, PROVIDE PRICE MODEL PDDR WITH 12"X12" NECK.
- EXISTING RESTROOM EXHUST FANS IN WOMEN'S RESTROOM AND MEN'S RESTROOM ARE TO REMAIN UNCHANGED.

Provide existing RTU's name plate information to structural inspector for verification that new units weigh less than existing units. If new units weigh more than the existing RTU's, engineering may be required.



1 Mechanical - New
3/16" = 1'-0"

GENERAL MECHANICAL NOTES

- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE CODES, LOCAL CODES, AND OWNER'S STANDARDS INDICATED BY THE CONSTRUCTION DOCUMENTS.
- MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
- CONTRACTOR SHALL COORDINATE WORK INDICATED WITH PLUMBING, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, AND ARCHITECTURAL DIVISIONS. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR MECHANICAL SYSTEMS, DIMENSIONED TO INCORPORATE THE WORK OF OTHER TRADES. INDICATE SPACES RESERVED FOR FIRE SPRINKLER, PLUMBING PIPING, MECHANICAL PIPING, MECHANICAL DUCTWORK, & ELECTRICAL CONDUIT MAINS. VERIFY FIT OF MECHANICAL SYSTEMS PRIOR TO FABRICATION. COORDINATE ALL CHASE, SLEEVE, AND SLAB BLOCKOUT REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.
- PROVIDE ALL EQUIPMENT SCHEDULED OR INDICATED ON THE DRAWINGS BUT NOT INCLUDED WITHIN THE SPECIFICATIONS INCLUDING ANY REQUIRED BUT NOT LISTED MISC ITEMS REQUIRED TO PROVIDE COMPLETE OPERATIONAL SYSTEMS AS INDICATED WHETHER SPECIFICALLY CALLED FOR OR NOT. INSTALLATION SHALL CONFORM TO MANUFACTURERS RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE SUBMITTALS FOR ALL PROPOSED EQUIPMENT AND MATERIALS TO BE UTILIZED. PROVIDE OPERATION AND MAINTENANCE MANUAL FOR ALL SYSTEMS AND EQUIPMENT AT END OF PROJECT.
- ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR PRIOR TO EQUIPMENT ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION IS THE RESPONSIBILITY OF THIS CONTRACTOR.
- DRAIN PIPING FROM EQUIPMENT SHALL BE ROUTED SO AS NOT TO CREATE A TRIPPING HAZARD. COORDINATE ACTUAL DRAIN CONNECTIONS WITH PLUMBING CONTRACTOR.
- ITEM DESIGNATIONS INDICATED HEREON ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNERS REPRESENTATIVE ACTUAL "TAGGING" INFORMATION TO BE PROVIDED FOR EACH ITEM OF MECHANICAL EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
- PROVIDE VALVE TAGS AND PIPE IDENTIFICATION BANDS. TAGS SHALL BE BRASS WITH CHAIN. IDENTIFICATION BANDS SHALL BE LOCATED EVERY 25 FEET AND ON EITHER SIDE OF INTERMEDIATE BARRIER.
- PROVIDE 18" X 18" MINIMUM ACCESS DOOR IN INACCESSIBLE CEILINGS AND WALLS FOR EQUIPMENT AND VALVES REQUIRING ACCESS OR ADJUSTMENT. COORDINATE LOCATIONS AND SUBMIT TO ARCHITECT FOR APPROVAL PRIOR TO BEGINNING WORK.
- VALVES SHALL BE LOCATED WITHIN EASY REACH OF CEILING WHERE CEILINGS OCCUR & DROPPED TO WITHIN A MAXIMUM 10'-0" ABOVE FINISHED FLOOR WHERE NO CEILING OCCURS.
- DUCT SIZES INDICATED ARE NET INSIDE CLEAR DIMENSIONS, DUCT SIZES INDICATED ARE NET INSIDE CLEAR DIMENSIONS, BRANCH RUNOUT DUCTS TO DIFFUSERS AND GRILLES TO BE SAME SIZE AS DIFFUSER OR GRILLE CONNECTION SIZE UNLESS OTHERWISE NOTED.
- LENGTH OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAX. HORIZONTAL RUN WITH ONLY ONE 90° ELBOW PERMITTED. SECURE FLEXIBLE DUCTWORK WITH SCREWS & DRAWBANDS PER SMACNA STANDARDS.
- PROVIDE CEILING OPERATORS FOR INACCESSIBLE MVD'S WHERE INDICATED, EQUAL TO YOUNG REGULATOR, REMOTE GEAR OPERATED, WITH CEILING ESCUTCHEON.
- DUCT MOUNTED SMOKE DETECTORS SHALL BE ZERO VELOCITY TYPE WHERE INDICATED ON DRAWINGS.
- CEILING DIFFUSERS SHALL BE 36" MINIMUM FROM CEILING MOUNTED SMOKE DETECTORS, COORDINATE WITH DIVISION 16.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LOCATION OF GRILLES, DIFFUSERS, AND ACCESS DOORS IN CEILING. SECURE DIFFUSERS & GRILLES TO T-BAR CEILINGS WHERE APPLICABLE. SUBMIT SHOP DWG. FOR APPROVAL PRIOR TO BEGINNING WORK.
- DUCTWORK VISIBLE BEHIND DIFFUSERS, REGISTERS, OR GRILLES SHALL BE PAINTED FLAT BLACK.
- AT THE COMPLETION OF WORK, PROVIDE TESTING AND BALANCING SERVICES FOR MECHANICAL SYSTEM. SUBMIT WRITTEN REPORT TO ARCHITECT LISTING SYSTEM AIRFLOWS, ELECTRIC DATA, TEMPERATURES, AND PRESSURE DROPS.
- WHERE PIPES PASS THROUGH FIRE-RATED FLOOR OR WALLS, SEAL WITH MATERIALS EQUAL TO 3M FIRE BARRIER MEETING TESTING PER ASTM-E-814 (JUL 1479). USE CAULK OR PUTTY TYPE. ALL EXTERIOR WALL AND ROOF PENETRATIONS SHALL BE SEALED WATERPROOF.
- AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL ACCEPTANCE, ALL PARTS OF THE WORK INSTALLED UNDER THIS SPECIFICATION SHALL BE THOROUGHLY CLEANED.
- ALL EQUIPMENT, MATERIALS, AND INSTALLATION IS TO BE WARRANTED FOR ONE YEAR TO BE FREE FROM DEFECT. PROVIDE WRITTEN WARRANTY TO OWNER.
- THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS WORK.
- THIS CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ELECTRICAL CONDUIT, STRUCTURAL MEMBERS, ETC., PRIOR TO STARTING OF CONSTRUCTION. COORDINATE CONFLICTS WITH THE GENERAL CONTRACTOR.
- THIS CONTRACTOR SHALL COORDINATE ALL REQUIRED EXISTING BUILDING SERVICE SYSTEM OUTAGES WITH BUILDING MANAGEMENT.
- ALL MECHANICAL SYSTEMS ARE REQUIRED TO BE INSTALLED PER BASE BUILDING REQUIREMENTS, LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
- PATCH AND REPAIR TO MATCH EXISTING, ANY WALL/CEILINGS TO BE ACCESSED TO ROUTE PIPING AND DUCTWORK.
- EXISTING DUCTWORK, PIPING, AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW DUCTWORK, PIPING, AND EQUIPMENT IS SHOWN HEAVY. EXISTING DUCTWORK, PIPING, AND EQUIPMENT TO BE REMOVED IS SHOWN CROSSHATCHED.



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p 303.985.3260

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p: 720.221.5400

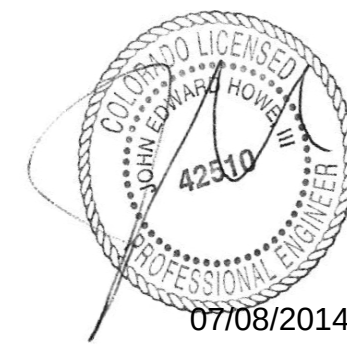
Colorado Islamic
Society

16786 East Illif Avenue
Aurora, Colorado 80013

Owner:
Colorado Islamic Society

16786 East Illif Avenue
Aurora, Colorado 80013
Phone: XXX.XXX.XXXX
Fax : XXX.XXX.XXXX

Seal:



Revisions:
1 07/08/2014 Permit Submittal Response to Plan Review Comments

Project Number 14.0087
Date 30 JUN 2014

Mechanical Plans

M-1.0



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: Jose R
Date: Jul 07, 2014
2009 INTERNATIONAL CODES & 2011 NEC

RSN: 912192
Permit #: 2014-860667-LT



COMcheck Software Version 3.9.3
Mechanical Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **Alteration**

Project Title : Colorado Islamic Society

Construction Site:
16786 E. Illiff Ave.
Aurora, CO 80013

Owner/Agent:
Colorado Islamic Society
16786 E. Illiff Ave.
Aurora, CO 80013

Designer/Contractor:
JCAA Consulting Engineers
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
303-985-3260

Section 2: General Information

Building Location (for weather data):
Climate Zone:

**Aurora, Colorado
5b**

Section 3: Mechanical Systems List

Quantity System Type & Description

- 2 HVAC System 1 (Single Zone w/ Perimeter System) :
Heating: 1 each - Duct Furnace, Gas, Capacity = 80 kBtu/h
Proposed Efficiency = 80.00% Ec, Required Efficiency = 80.00% Ec
Cooling: 1 each - Single Package DX Unit, Capacity = 48 kBtu/h, Air-Cooled Condenser
Proposed Efficiency = 13.00 SEER, Required Efficiency = 13.00 SEER
Fan System: RTU | Religious Worship -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 1990 CFM, 5.0 motor nameplate hp

Section 4: Requirements Checklist

Requirements Specific To: HVAC System 1 :

- ☒ 1. Equipment minimum efficiency: Duct Furnace (Gas): 80.00 % Ec
☒ 2. Equipment minimum efficiency: Single Package Unit: 13.00 SEER

Generic Requirements: Must be met by all systems to which the requirement is applicable:

- ☒ 1. Plant equipment and system capacity no greater than needed to meet loads
Exception(s):
☐ Standby equipment automatically off when primary system is operating
☐ Multiple units controlled to sequence operation as a function of load
☒ 2. Minimum one temperature control device per system
☒ 3. Minimum one humidity control device per installed humidification/dehumidification system
☒ 4. Load calculations per ASHRAE/ACCA Standard 183.
☒ 5. Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup
Exception(s):
☐ Continuously operating zones.
☒ 6. Outside-air source for ventilation: system capable of reducing OSA to required minimum
☒ 7. R-5 supply and return air duct insulation in unconditioned spaces
R-8 supply and return air duct insulation outside the building
R-8 insulation between ducts and the building exterior when ducts are part of a building assembly
Exception(s):

Project Title: Colorado Islamic Society Report date: 07/02/14
Data filename: P:\JCAA 2014\14.0087_COLORADO ISLAMIC CENTER\DOCUMENTS\COMCHECK\COLORADO ISLAMIC SOCIETY -
07-01-2014.cck Page 1 of 3

- ☒ Ducts located within equipment.
☐ Ducts with interior and exterior temperature difference not exceeding 15°F.
☒ 8. Mechanical fasteners and sealants used to connect ducts and air distribution equipment
☒ 9. Ducts sealed - longitudinal seams on rigid ducts; transverse seams on all ducts; UL 181A or 181B tapes and mastics
☐ 10 Hot water pipe insulation: 1.5 in. for pipes <=1.5 in. and 2 in. for pipes >1.5 in.
Chilled water/refrigerant/brine pipe insulation: 1.5 in. for pipes <=1.5 in. and 1.5 in. for pipes >1.5 in.
Steam pipe insulation: 1.5 in. for pipes <=1.5 in. and 3 in. for pipes >1.5 in.
Exception(s):
☐ Piping within HVAC equipment.
☐ Fluid temperatures between 55 and 105°F.
☐ Fluid not heated or cooled with renewable energy.
☐ Piping within room fan-coil (with AHRI440 rating) and unit ventilators (with AHRI840 rating).
☐ Runouts <4 ft in length.
☒ 11. Operation and maintenance manual provided to building owner
☐ 12. Thermostatic controls have 5°F deadband
Exception(s):
☒ Thermostats requiring manual changeover between heating and cooling
☐ Special occupancy or special applications where wide temperature ranges are not acceptable and are approved by the authority having jurisdiction.
☒ 13. Balancing devices provided in accordance with IMC 603.17
☐ 14. Demand control ventilation (DCV) present for high design occupancy areas (>40 person/1000 ft2 in spaces >500 ft2) and served by systems with any one of 1) an air-side economizer, 2) automatic modulating control of the outdoor air damper, or 3) a design outdoor airflow greater than 3000 cfm.
Exception(s):
☐ Systems with heat recovery.
☐ Multiple-zone systems without DDC of individual zones communicating with a central control panel.
☒ Systems with a design outdoor airflow less than 1200 cfm.
☐ Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.
☐ 15. Motorized, automatic shutoff dampers required on exhaust and outdoor air supply openings
Exception(s):
☒ Gravity dampers acceptable in buildings <3 stories
☒ 16. Automatic controls for freeze protection systems present
☐ 17. Exhaust air heat recovery included for systems 5,000 cfm or greater with more than 70% outside air fraction or specifically exempted
Exception(s):
☐ Hazardous exhaust systems, commercial kitchen and clothes dryer exhaust systems that the International Mechanical Code prohibits the use of energy recovery systems.
☐ Systems serving spaces that are heated and not cooled to less than 60°F.
☐ Where more than 60 percent of the outdoor heating energy is provided from site-recovered or site solar energy.
☐ Heating systems in climates with less than 3600 HDD.
☐ Cooling systems in climates with a 1 percent cooling design wet-bulb temperature less than 64°F.
☐ Systems requiring dehumidification that employ energy recovery in series with the cooling coil.
☐ Laboratory fume hood exhaust systems that have either a variable air volume system capable of reducing exhaust and makeup air volume to 50 percent or less of design values or, a separate make up air supply meeting the following makeup air requirements:
a) at least 75 percent of exhaust flow rate, b) heated to no more than 2°F below room setpoint temperature, c) cooled to no lower than 3°F above room setpoint temperature, d) no humidification added, e) no simultaneous heating and cooling.

Section 5: Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical alteration project has been designed to meet the 2009 IECC, Chapter 8, requirements in COMcheck Version 3.9.3 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

Section 6: Post Construction Compliance Statement

Project Title: Colorado Islamic Society Report date: 07/02/14
Data filename: P:\JCAA 2014\14.0087_COLORADO ISLAMIC CENTER\DOCUMENTS\COMCHECK\COLORADO ISLAMIC SOCIETY -
07-01-2014.cck Page 2 of 3

- ☐ HVAC record drawings of the actual installation, system capacities, calibration information, and performance data for each equipment provided to the owner.
☐ HVAC O&M documents for all mechanical equipment and system provided to the owner by the mechanical contractor.
☐ Written HVAC balancing and operations report provided to the owner.

The above post construction requirements have been completed.

Principal Mechanical Designer-Name Signature Date



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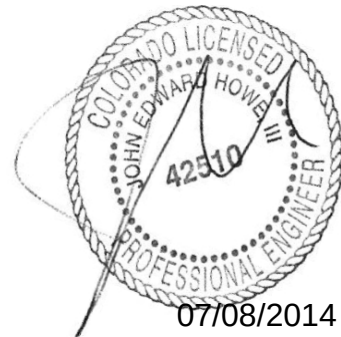
Colorado Islamic
Society

16786 East Illiff Avenue
Aurora, Colorado 80013

Owner:
Colorado Islamic Society

16786 East Illiff Avenue
Aurora, Colorado 80013
Phone: XXX.XXX.XXXX
Fax : XXX.XXX.XXXX

Seal:



Revisions:

07/02/2014 Permit
Submittal

Project Number 14.0087
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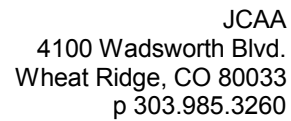
Mechanical ComCHECK



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: **Jose R**
Date: **Jul 07, 2014**
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RSN: **912192**
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M-1.1



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1 REMOVE INDICATED WATER CLOSET. CAP WASTE AND VENT AT WALL. DEMO COLD WATER BACK TO MAIN DISTRIBUTION LINE, VALVE AND CAP FOR FUTURE USE. PATCH WALLS AND/OR CEILINGS AS NECESSARY TO PROVIDE A CONSISTENT FINISH WITH THE SURROUNDING AREA.

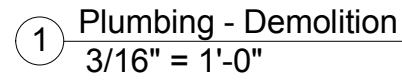
2 REMOVE LAVATORY AND SALVAGE FOR RE-USE. CAP WASTE AND VENT AT WALL. DEMO COLD AND HOT WATER BACK TO MAIN DISTRIBUTION LINE, VALVE AND CAP FOR FUTURE USE. PATCH ALL WALLS AND CEILINGS AS NECESSARY TO PROVIDE A CONSISTENT FINISH WITH THE SURROUNDING AREA.

3 REMOVE WATER CLOSET AND PREPARE WASTE, VENT, AND COLD WATER LINES FOR INSTALLATION OF SALVAGED LAVATORY. SEE P-1.1.

1 4 REMOVE INDICATED LAVATORY AND PREPARE WASTE AND VENT FOR RE-USE WITH NEW MOP SERVICE BASIN, MSB-1.

1. FIXTURES REMOVED: (2) WATER CLOSETS, (1) LAVATORY

2. FIXTURES SALVAGED FOR RE-USE: (1) LAVATORY



1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE CODES, LOCAL CODES, AND OWNER'S STANDARDS INDICATED BY THE CONSTRUCTION DOCUMENTS.
2. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
3. CONTRACTOR SHALL COORDINATE WORK INDICATED WITH MECHANICAL, ELECTRICAL, FIRE PROTECTION, STRUCTURAL, CIVIL, AND ARCHITECTURAL DIVISIONS. CONTRACTOR SHALL VERIFY SIZE & LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK. COORDINATE WITH OTHER TRADES AND MAKE FINAL CONNECTION. SUBMIT 1/4" SCALE SHOP DRAWINGS FOR PLUMBING SYSTEMS, DIMENSIONED TO INCORPORATE THE WORK OF OTHER TRADES, INDICATE SPACES RESERVED FOR FIRE SPRINKLER, PLUMBING PIPING, MECHANICAL PIPING, MECHANICAL DUCTWORK, & ELECTRICAL CONDUIT MAINS. VERIFY FIT OF PLUMBING SYSTEMS PRIOR TO FABRICATION. COORDINATE ALL CHASE, SLEEVE, AND SLAB BLOCK REQUIREMENTS BEFORE CONCRETE IS POURED OR BLOCK IS SET.
4. PROVIDE ALL EQUIPMENT SCHEDULED OR INDICATED ON THE DRAWINGS BUT NOT INCLUDED WITHIN THE SPECIFICATIONS INCLUDING ANY REQUIRED BUT NOT LISTED MISC ITEMS REQUIRED TO PROVIDE COMPLETE OPERATIONAL SYSTEMS AS INDICATED WHETHER SPECIFICALLY CALLED FOR OR NOT. INSTALLATION SHALL CONFORM TO MANUFACTURERS RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE SUBSTITUTALS FOR ALL PROPOSED FIXTURES, EQUIPMENT AND MATERIALS TO BE UTILIZED. PROVIDE OPERATION AND MAINTENANCE MANUAL FOR ALL SYSTEMS AND EQUIPMENT AT END OF PROJECT.
5. ELECTRICAL CHARACTERISTICS OF PLUMBING EQUIPMENT SHALL BE VERIFIED WITH ELECTRICAL DRAWINGS AND ELECTRICAL CONTRACTOR PRIOR TO EQUIPMENT ORDER RELEASE. ADDITIONAL ELECTRICAL WORK RESULTING FROM EQUIPMENT SUBSTITUTION IS THE RESPONSIBILITY OF THIS CONTRACTOR.
6. DRAIN PIPING FROM EQUIPMENT SHALL BE ROUTED SO AS NOT TO CREATE A TRIPPING HAZARD.
7. ITEM DESIGNATIONS INDICATED HEREON ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH OWNERS REPRESENTATIVE ACTUAL "TAGGING" INFORMATION TO BE PROVIDED FOR EACH ITEM OF MECHANICAL EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
8. PROVIDE VALVE TAGS AND PIPE IDENTIFICATION BANDS. TAGS SHALL BE BRASS WITH CHAIN. IDENTIFICATION BANDS SHALL BE LOCATED EVERY 25 FEET AND ON EITHER SIDE OF INTERMEDIATE BARRIER.
9. PROVIDE 18" X 18" MINIMUM ACCESS DOOR IN INACCESSIBLE CEILINGS AND WALLS FOR EQUIPMENT AND VALVES REQUIRING ACCESS OR ADJUSTMENT. COORDINATE LOCATIONS AND SUBMIT TO ARCHITECT FOR APPROVAL PRIOR TO BEGINNING WORK.
10. VALVES SHALL BE LOCATED WITHIN EASY REACH OF CEILING WHERE CEILINGS OCCUR & DROPPED TO WITHIN A MAXIMUM 10'-0" ABOVE FINISHED FLOOR WHERE NO CEILING OCCURS.
11. PROVIDE CLEANOUTS WHERE INDICATED ON DRAWINGS OR AS REQUIRED BY JURISDICTIONAL PLUMBING CODE.
12. VTR'S SHALL BE 10'-0" MINIMUM FROM BUILDING AIR INTAKES AND OPENINGS INTO BUILDING. COORDINATE WITH MECHANICAL DRAWINGS AND CONTRACTOR.
13. ALL WORK UNDER THIS CONTRACT IS TO FIVE (5) FEET OUTSIDE THE BUILDING.
14. CLEAN, TEST, AND SANITIZE ALL PLUMBING IN ACCORDANCE WITH REQUIREMENTS OF JURISDICTIONAL PLUMBING AND HEALTH CODES.
15. WHERE PIPES PASS THROUGH FIRE-RATED FLOOR OR WALLS, SEAL WITH MATERIALS EQUAL TO 3M FIRE BARRIER, MEETING TESTING PER ASTM-E-814 (UL 179). USE CALK OR PUTTY TYPE. ALL EXTERIOR WALL AND ROOF PENETRATIONS SHALL BE SEALED WATERPROOF.
16. AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL ACCEPTANCE, ALL PARTS OF THE WORK INSTALLED UNDER THIS SPECIFICATION SHALL BE THOROUGHLY CLEANED.
17. ALL EQUIPMENT, MATERIALS, AND INSTALLATION IS TO BE WARRANTED FOR ONE YEAR TO BE FREE FROM DEFECT. PROVIDE WRITTEN WARRANTY TO OWNER.
18. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS WORK.
19. THIS CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ELECTRICAL CONDUIT, STRUCTURAL MEMBERS, ETC., PRIOR TO STARTING OF CONSTRUCTION. COORDINATE CONFLICTS WITH THE GENERAL CONTRACTOR.
20. THIS CONTRACTOR SHALL COORDINATE ALL REQUIRED EXISTING BUILDING SERVICE SYSTEM OUTAGES WITH BUILDING MANAGEMENT.
21. ALL PLUMBING SYSTEMS ARE REQUIRED TO BE INSTALLED PER BASE BUILDING REQUIREMENTS, LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
22. SAWCUT/CORE DRILL EXISTING FLOOR AS REQUIRED FOR INSTALLATION OR CAPPING OF WASTE AND VENT PIPING. PATCH AND REPAIR TO MATCH EXISTING.
23. PATCH AND REPAIR TO MATCH EXISTING, ANY WALL/CEILINGS TO BE ACCESSED TO ROUTE PIPING.
24. EXISTING PLUMBING AND EQUIPMENT TO REMAIN IS SHOWN LIGHT. NEW PLUMBING AND EQUIPMENT IS SHOWN HEAVY. EXISTING PLUMBING AND EQUIPMENT TO BE REMOVED IS SHOWN CROSSTHATCHED.

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

RSN: 912192
Permit #: 2014-860667-LT

Seal:



Revisions:

07/02/2014	Permit Submittal
07/08/2014	Response to Plan Review Comments

Project Number	14.0087
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Plumbing - Demolition

P-1.0



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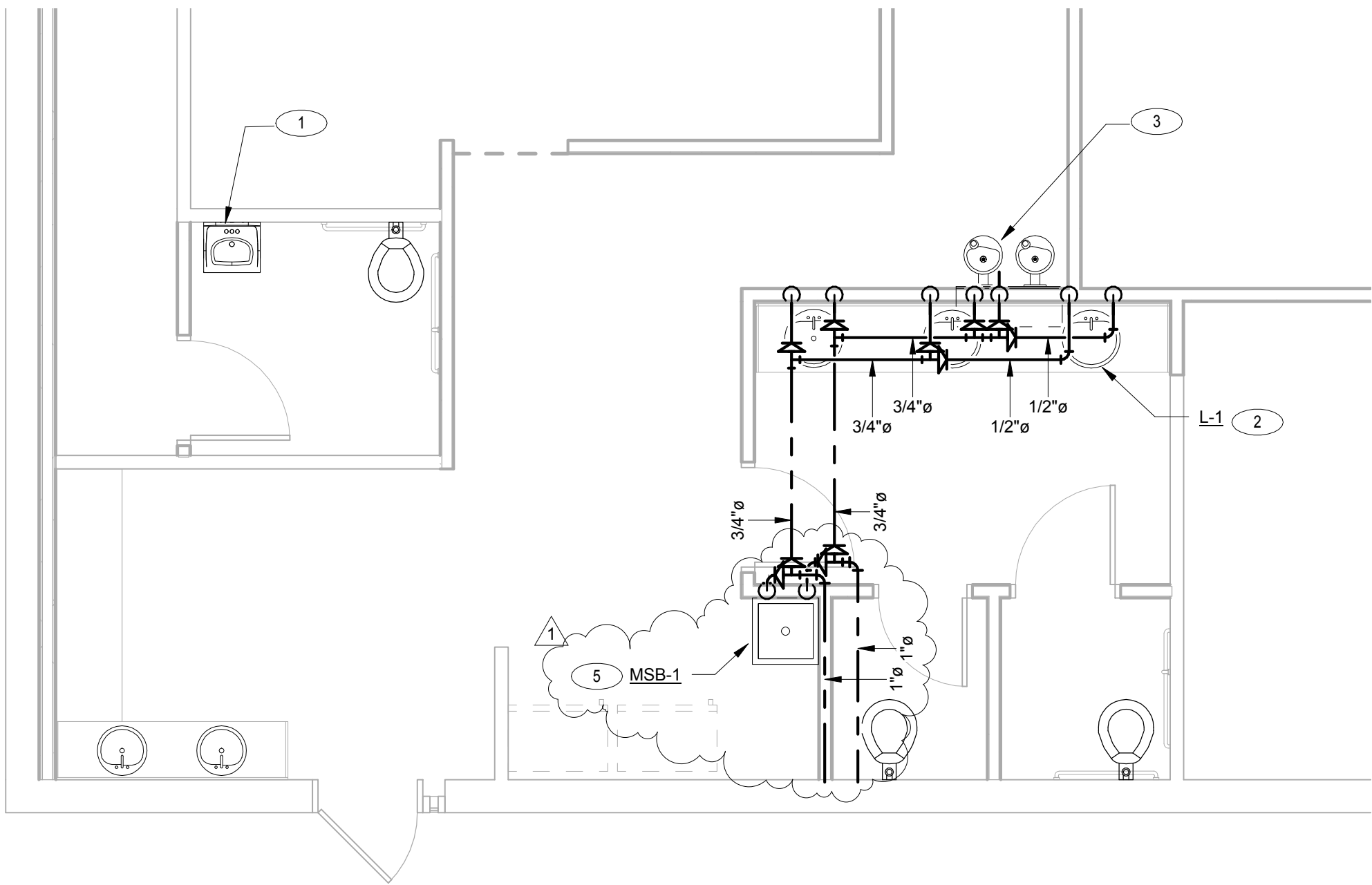
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SHEET NOTES:

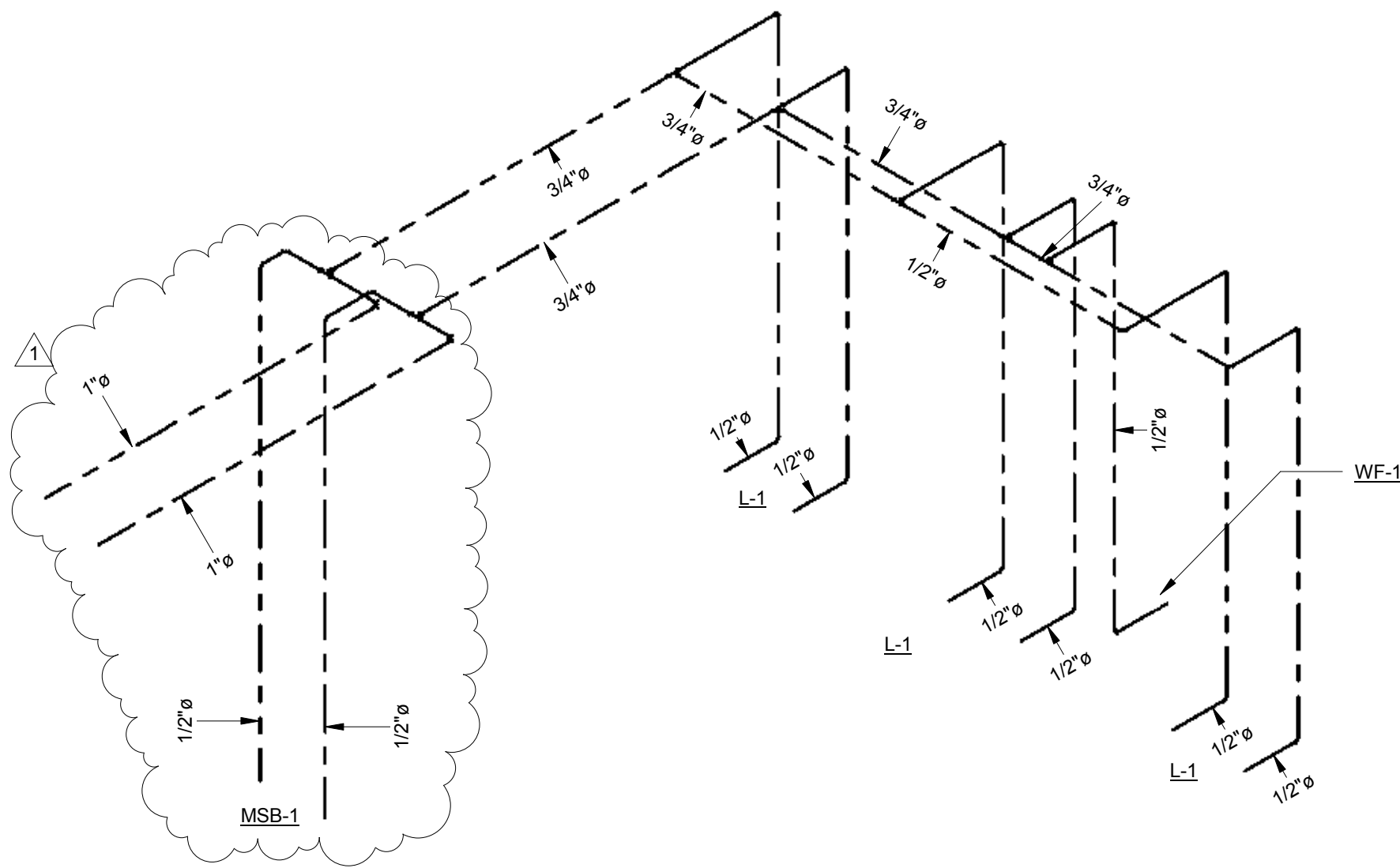
- 1 SALVAGED LAVATORY. PROVIDE ANY NEW ACCESSORIES NEEDED TO ENSURE LAVATORY IS FUNCTIONAL AND SERVICEABLE. CONNECT NEW 2" WASTE, 2" VENT, AND 1/2" COLD WATER TO EXISTING WASTE, VENT AND COLD WATER AT THIS LOCATION, PROVIDING ANY NECESSARY OFFSETS AND/OR TRANSITIONS. EXTEND HOT WATER IN CEILING FROM PREVIOUS LOCATION TO NEW LOCATION, MAINTAINING PIPE SIZE.
- 2 ABOVE COUNTER MOUNTED LAVATORIES. L-2, WITH ADA ACCEPTABLE FAUCETS AND UNDER-COUNTER SAFETY COVERS. SEE ARCHITECTURAL DOCUMENTS FOR COMPLETE SPECIFICATIONS. TYPICAL OF 3. 1/2" COLD WATER, 1/2" HOT WATER, 2" WASTE IN WALL. PROVIDE ANY REQUIRED OFFSETS IN WALL. SLOPE ALL WASTE PIPE AT A MINIMUM OF 1/8" PER FOOT.
- 3 DUAL HEIGHT WATER FOUNTAIN. SEE ARCHITECTURAL DOCUMENTS FOR COMPLETE SPECIFICATIONS. 1/2" COLD WATER AND 2" WASTE IN WALL. PROVIDE ANY REQUIRED OFFSETS IN WALL.
- 4 2" BRANCH VENT AND 2" WASTE CONNECTED FROM CENTER LAVATORY TO NEAREST VENT AND WASTE 2" OR LARGER.
- 5 NEW MOP SERVICE BASIN, MSB-1. SEE ARCHITECTURAL DOCUMENTS FOR COMPLETE SPECIFICATIONS. CONNECT 1/2" COLD AND HOT WATER ABOVE AS SHOWN. PROVIDE 1-1/2" TRAP AND CONNECT TO WASTE AND VENT WHERE LAVATORY HAS BEEN REMOVED.

GENERAL NOTES:

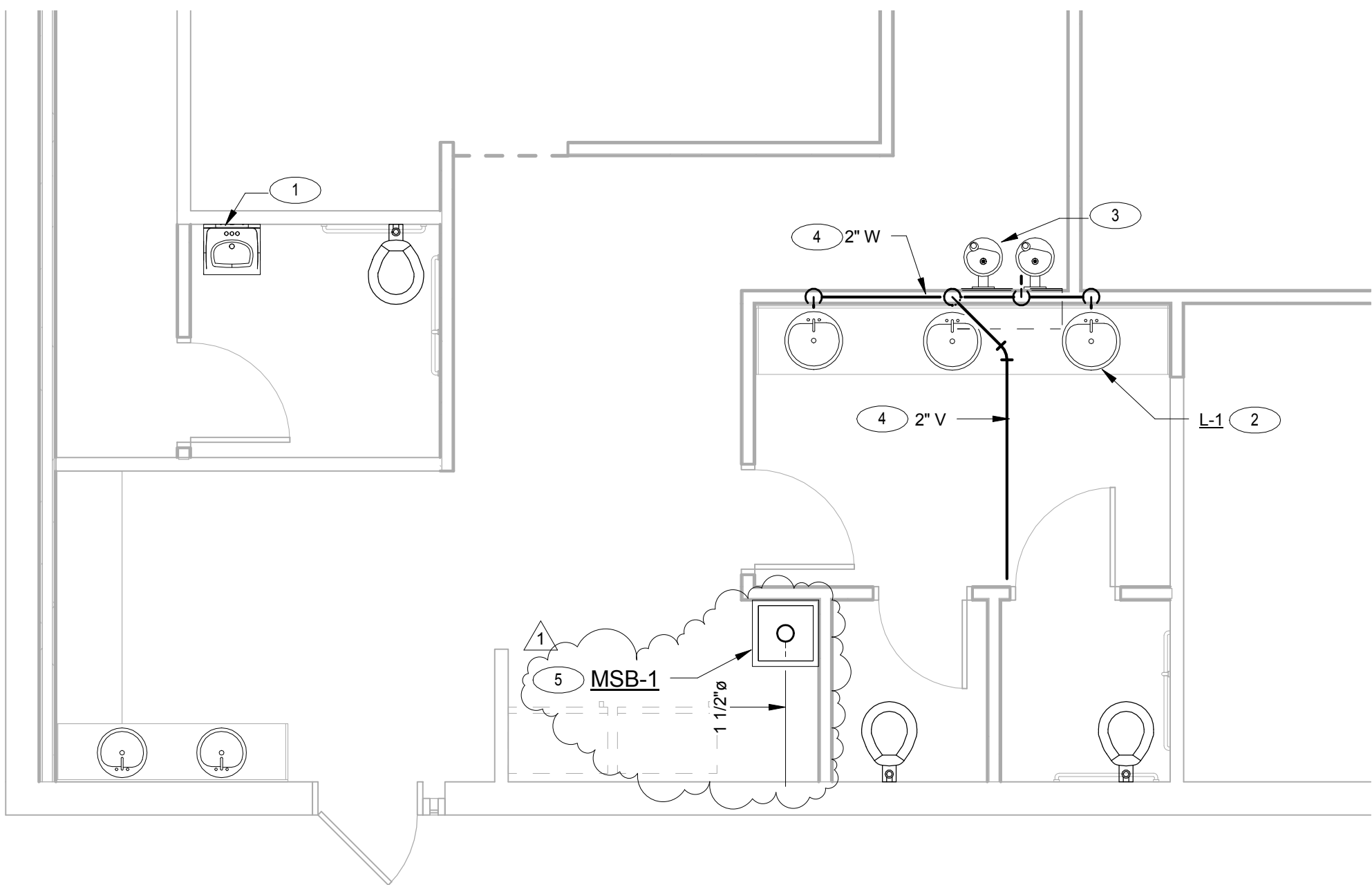
1. ALL NEW WASTE ABOVE GRADE IS TO BE SCH. 40 PVC. ALL NEW WASTE BELOW GRADE IS TO BE CAST IRON.
2. ALL NEW VENT IS TO BE PVC.
3. ALL NEW DOMESTIC SUPPLY IS TO BE COPPER.
4. MECHANICAL SYSTEMS ARE DUCTED RETURN. PLENUM REATED MATERIALS ARE NOT REQUIRED.



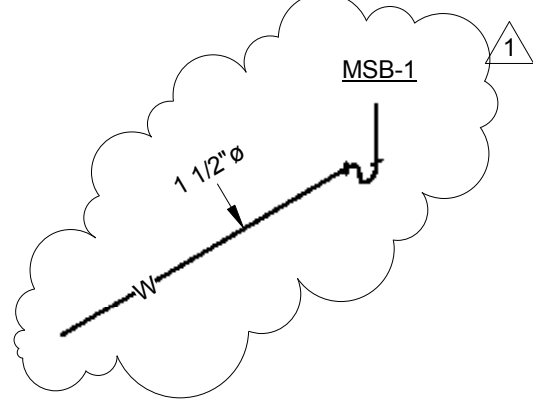
2 Plumbing - Domestic Supply
1/4" = 1'-0"



3 Domestic Supply Isometric



1 Plumbing - Waste & Vent
1/4" = 1'-0"



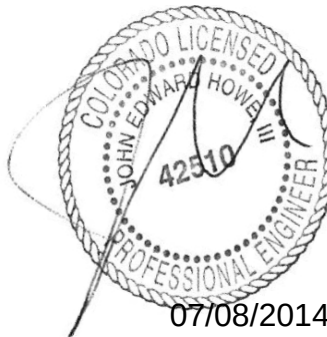
4 Waste & Vent Isometric



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Plumbing - New Plans

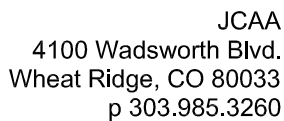
GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. 2. FINAL CONNECTIONS & ROUGH-IN REQUIREMENTS TO EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED. 3. CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID. 4. CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL REPORT DISCREPANCIES TO THE ARCHITECT AND INCLUDE IN HIS BID ALL COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS. 5. PROPOSED SUBSTITUTIONS OF ELECTRICAL EQUIPMENT OR REQUEST FOR "OR EQUAL" OR "APPROVED EQUAL" LISTING SHALL BE SUBMITTED TO ARCHITECT NOT LESS THAN FIVE (5) WORKING DAYS PRIOR TO BID. 6. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT. 7. WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES. 8. PROVIDE PERMITS AND INSPECTIONS REQUIRED. 9. PROVIDE RECORD DRAWINGS TO ARCHITECT. DRAWINGS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC. 10. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN. 11. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER. 12. WIRE SHALL BE COPPER, 75°C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3 INCHES OF FLUORESCENT BALLASTS WIRE SHALL BE COPPER, MINIMUM 90°C RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30°C AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS. 13. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION. 14. CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS OR EQUIPMENT. 15. SYSTEMS SHALL BE COMPLETE, OPERABLE AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC., SHALL BE CONNECTED AND OPERABLE. 16. VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND 17. PATCHING, CONCRETE/PAVING, ETC., REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS. 18. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25'-0" OF ALL MECHANICAL OR MOTORIZED EQUIPMENT.	19. SEE MECHANICAL DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT. PROVIDE SERVICE TO AND CONNECT EQUIPMENT AS REQUIRED. PROVIDE FUSES OR HACR-TYPE CIRCUIT BREAKERS FOR ALL AIR CONDITIONING EQUIPMENT SIZED IN ACCORDANCE WITH MANUFACTURER'S NAMEPLATE. 20. PROVIDE ENGRAVED NAMEPLATES ON, PANELBOARDS, DISCONNECT SWITCHES, ETC. INDICATING EQUIPMENT DESIGNATION (OR DESIGNATION OF EQUIPMENT SERVED) AND VOLTAGE TO BE MECHANICAL FASTEN. 21. PANELBOARD DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS. 22. ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. RACEWAYS IN SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE WITH RIGID STEEL ELBOWS WITH P.V.C. JACKET OR APPROVED EQUAL PROTECTION. EMT 23. NON-METALLIC AND FLEXIBLE METAL CONDUITS SHALL HAVE A CODE SIZED COPPER GROUNDING CONDUCTOR. INCREASE CONDUIT SIZE AS REQUIRED. 24. FIRE ALARM, SOUND, TELEPHONE, COMPUTER, AND SIMILAR SYSTEMS CONDUITS LARGER THAN 1" SHALL HAVE LONG RADIUS SWEEPS (12 TIMES THE DIAMETER). 25. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. 26. WIRE TERMINATION PROVISIONS FOR PANELBOARDS, CIRCUIT BREAKERS, SAFETY SWITCHES, AND ALL OTHER ELECTRICAL APPARATUS SHALL BE LISTED AS SUITABLE FOR 75°C. 27. RECEPTACLES INSTALLED IN GARAGE, SINK AREA, OUTSIDE ON THE BUILDING EXTERIOR OR ROOF SHALL BE GFCI TYPE OR PROTECTED BY GFI CIRCUIT BREAKER. PER NEC 511.12. 28. ALL NEW EQUIPMENT SUCH AS SWITCHBOARDS, DISTRIBUTION BOARDS, DISCONNECT SWITCHES, TRANSFORMERS AND PANELBOARDS SHALL BE BY THE SAME MANUFACTURER. 29. ELECTRICAL CONTRACTOR SHALL SUBMIT 5 COPIES OF ALL ELECTRICAL EQUIPMENT AND LIGHT FIXTURES TO ENGINEER VIA GENERAL CONTRACTOR FOR APPROVAL PRIOR TO ORDERING. 30. ELECTRICAL CONTRACTOR TO PROVIDE FINAL CONNECTION OF OWNER FURNISHED EQUIPMENT VERIFY EXACT REQUIREMENTS PRIOR TO ROUGH IN. 31. PROVIDE FINIAL CONNECTION OF OWNER FURNISHED EQUIPMENT, VERIFY REQUIREMENTS PRIOR TO ROUGH-IN.
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CODES & DESIGN CRITERIA	
JURISDICTION:	AURORA, COLORADO
ELECTRICAL CODE:	2011 NATIONAL ELECTRICAL CODE

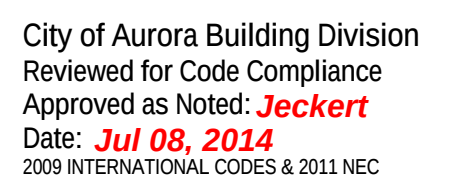
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LEGEND	
SYMBOL	DESCRIPTION
GRND	INDICATES GROUND
PNL	INDICATES PANEL
WP	INDICATES WEATHER-PROOF (NEMA 3R)
	NON-FUSED DISCONNECT SWITCH - 30A, 3P, UNLESS NOTED OTHERWISE
	SURFACE MOUNTED PANELBOARD
	FUSED NEMA 3R DISCONNECT SWITCH
	MOTOR OUTLET
	HOMERUN CONDUIT - STROKES INDICATE QUANTITY OF CONDUCTORS
	CONDUIT AND/OR WIRE CONCEALED IN WALL OR ABOVE CEILING EXCEPT IN EXPOSED STRUCTURE AREAS
	FLUORESCENT STRIP
	FLUORESCENT TROFFER
	RECESSED DOWNLIGHT/PENDANT
	SURFACE MOUNTED LUMINAIRE
	SCONCE
	RECESSED LED
	SWITCH
	3 WAY SWITCH
	SWITCH OCCUPANCY SENSOR
	CEILING MOUNTED OCCUPANCY SENSOR
	RECEPTACLE
	GFI RECEPTACLE
	QUAD RECEPTACLE
	FLUSH IN FLOOR DUPLEX RECEPTACLE/TELE-DATA
	TELE-DATA OUTLET
	COAX OUTLET
	JUNCTION BOX
	PUSH BUTTON
	SMOKE DETECTOR
	HORN STROBE
	MANUAL PULL BOX
	EXIT SIGN
	EM SCONCE
	EM DUAL HEAD
	MECHANICAL EQUIPMENT - SEE HVAC AND PLUMBING DRAWINGS
	GROUND BUS & GROUND ELECTRODES



16786 East Illiff Avenue
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E0.1



RSN: **912192**
Permit #: **2014-860667**



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Owner:
Colorado Islamic Society

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Seal:



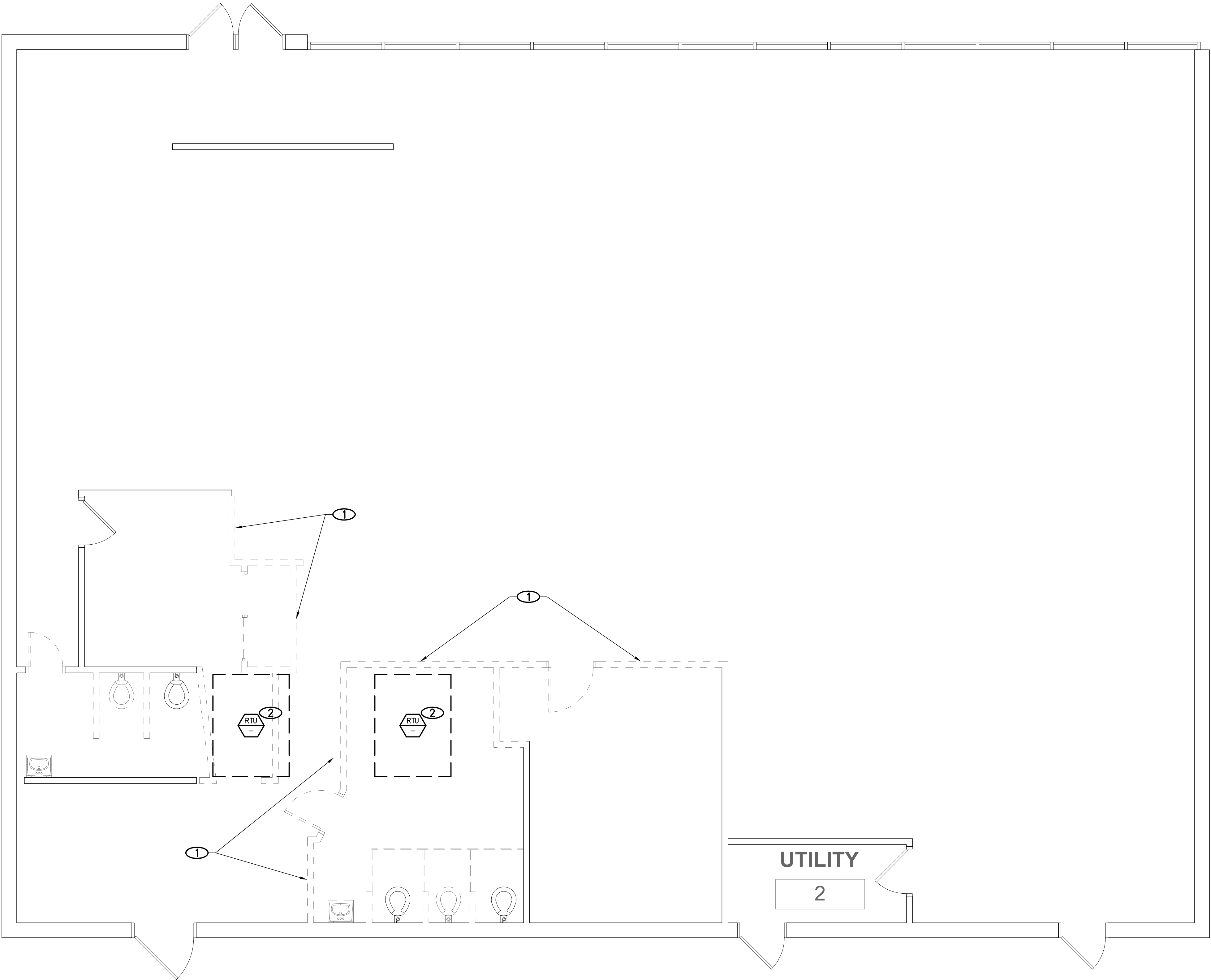
Revisions:
7/8/2014
RESPONSE TO PLAN REVIEW
COMMENTS

Project Number 14.0087
Date 30 JUN 2014

ELECTRICAL DEMO PLAN

ED1.1

RSN: 912192
Permit #: 2014-860667



NOTES

- 1 ALL EXISTING DEVICES LOCATED ON WALL TO BE DEMOLISHED, SHALL BE REMOVED MAINTAIN EXISTING CIRCUIT CONTINUITY.
- 2 EXISTING ROOF TOP UNIT TO BE REPLACED WITH NEW UNIT, SAME POWER REQUIREMENTS DISCONNECT AND RECONNECT NEW UNIT.

NO NEW LOAD ADDED

1 ELECTRICAL DEMO PLAN
1/4" = 1'-0"



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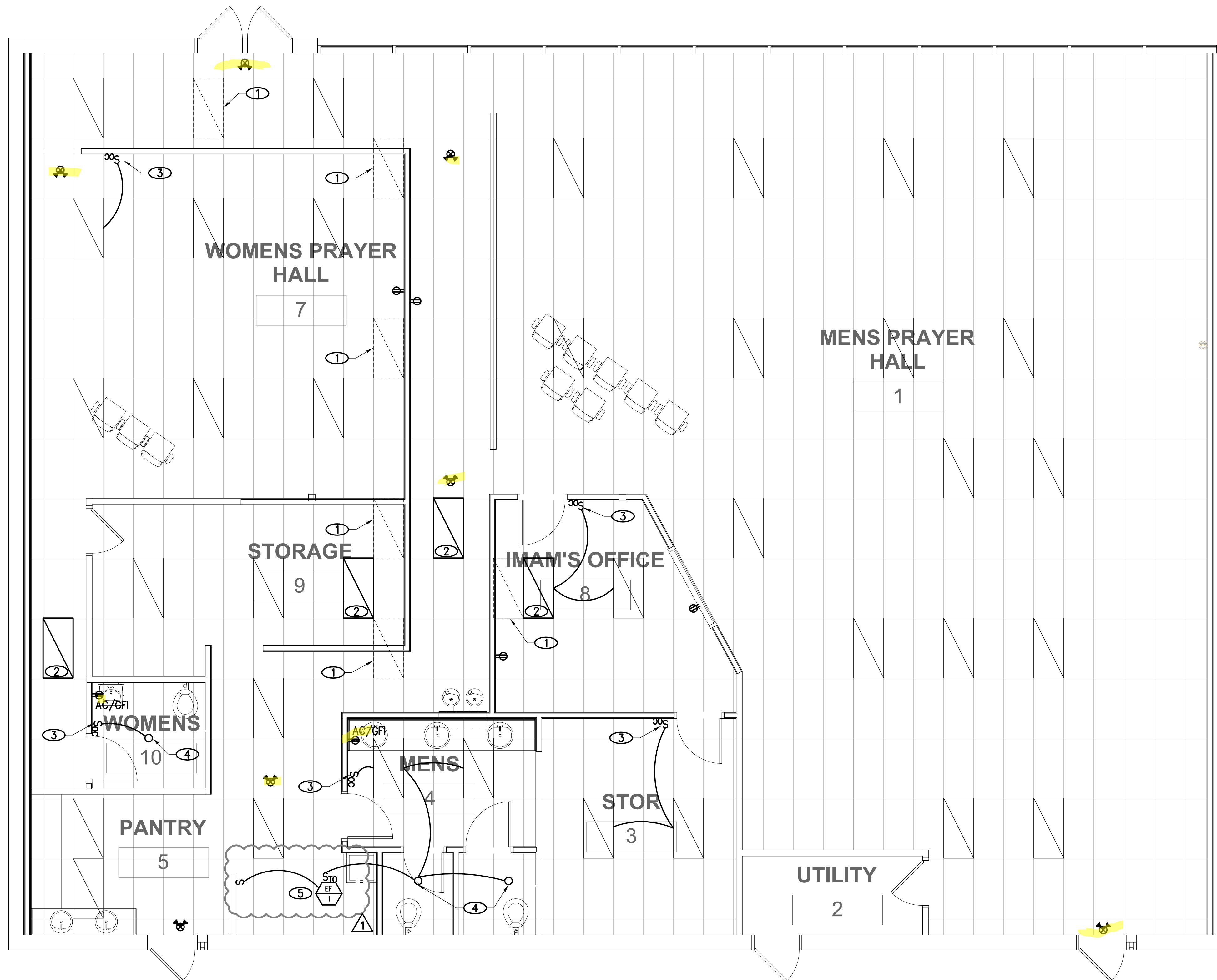
Colorado Islamic
Society

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Aurora, Colorado 80013

Owner:
Colorado Islamic Society

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Phone: XXX.XXX.XXXX
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14.0087



1 ELECTRICAL PLAN
1/4" = 1'-0"

2009 IBC Section 1006 the means of egress to include exit discharge shall be illuminated at all times the building space served by the means of egress is occupied

Provide emergency illumination equipment that complies with 2014 NEC 700.12 (F) or 2014 NEC 700.

2009 IBC Section 1006.3 Illumination emergency power. in the event of power failure, an emergency electrical system shall automatically illuminate all of the means of egress both inside and outside.

NO NEW LOAD ADDED

NOTES

- EXISTING 2 BY 4 FIXTURE TO BE REMOVED AND RELOCATED, EXTEND EXISTING CIRCUIT AND PROVIDE REQUIRED SWITCHLEGS.
- INDICATES NEW LOCATION OF EXISTING FIXTURE MAINTAIN EXISTING CIRCUIT CONTINUITY, PROVIDE REQUIRED SWITCHLEGS.
- PROVIDE NEW OCCUPANCY SENSOR LIGHT SWITCH, PROVIDE NEW SWITCHLEGS TO CONTROL FIXTURES AS INDICATED.
- PROVIDE NEW 6" RECESSED DOWNLIGHT CONNECT AND CONTROL AS INDICATED. TRIPLE 4-PIN 42W COMPACT FLUORESCENT DOWNLIGHT.
- INTERCONNECT EXHAUST FAN (EF-1) TO LOCAL BATHROOM LIGHTING CIRCUIT. CONTROLLED VIA WALL SWITCH AS SHOWN.

NOTICE

- ALL WIRING TO BE 2#12CU#12CU GND-1/2"C UNLESS OTHERWISE NOTED
- INTERCONNECT EGRESS/EMERGENCY LIGHTING TO LOCAL LIGHTING CIRCUIT.

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.

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.

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.

Seal:



Revisions:

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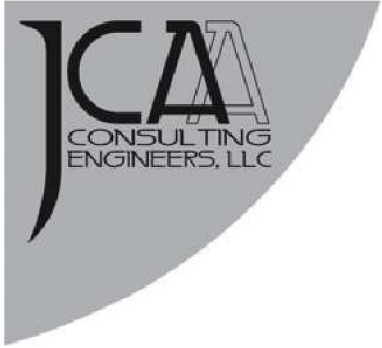
ELECTRICAL PLAN

E1.1



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: **Jeckert**
Date: **Jul 08, 2014**
2009 INTERNATIONAL CODES & 2011 NEC

RSN: 912192
Permit #: 2014-860667



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COMcheck Software Version 3.9.3 Interior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **Alteration**

Project Title : COLORADO ISLAMIC SOCIETY

Construction Site:
16786 E. Illif Ave.
Aurora, CO 80013

Owner/Agent:

Designer/Contractor:

Joshua Legg
JCAA Consulting Engineers
4100 Wadsworth Blvd.
Wheat Ridge, CO 80033
303-985-3260

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B x C)
Religious Building	4660	1.3	6058
Total Allowed Watts =			6058

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)
Religious Building (4660 sq.ft.)				
Linear Fluorescent 1: 48" T8 32W: Electronic:	3	39	96	3744
Compact Fluorescent 1: Triple 4-pin 42W: Electronic:	1	3	42	126
Total Proposed Watts =			3870	

Section 4: Requirements Checklist

Interior Lighting PASSES

Lighting Wattage:

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

Allowed Watts	Proposed Watts	Complies
6058	3870	PASSES

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).

Project Title: COLORADO ISLAMIC SOCIETY Report date: 07/01/14
Data filename: P:\JCAA 2014\14.0087_COLORADO ISLAMIC CENTER\DOCUMENTS\COMCHECK\COLORADO ISLAMIC SOCIETY -

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/astromonical time switch on exterior lights.

Exceptions:

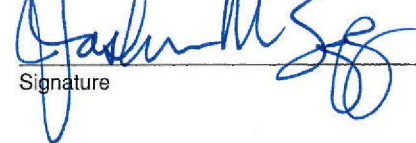
- ☐ Lighting intended for 24 hour use.
- ☐ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

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

Section 5: Compliance Statement

Compliance Statement: The proposed lighting alteration project represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting alteration project has been designed to meet the 2009 IECC, Chapter 6, requirements in COMcheck Version 3.9.3 and to comply with the mandatory requirements in the Requirements Checklist.

Joshua Legg - Designer  7/01/14
Name - Title Signature Date

Project Title: COLORADO ISLAMIC SOCIETY Report date: 07/01/14
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Seal:



Revisions:

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ELECTRICAL COMCHECK

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