

SHEET INDEX

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General Notes

- 1 Staging and storage of materials on site is to be coordinated with the Owner.
- 2 The Contractor is responsible for the protection of the Owner's facilities.
- 3 All existing conditions shall be field verified. Any variation shall be brought to the attention of the Architect. No deviation from the construction documents shall be made without the written approval of the Owner and Architect. Any variation shall be brought to the attention of the Architect. No deviation from the construction documents shall be made without the written approval of the Owner and Architect.
- 4 The contractor is responsible for the coordination of all trades.
- 5 Debris shall be cleaned up and removed at the end of each day.
- 6 Normal operation of the Owner facilities shall be maintained during construction. All work inside building is to be coordinated with the Owner.
- 7 Any and all damage to existing conditions, including but not limited to landscaping, paving, and building finishes, shall be repaired or replaced as directed by the Owner.
- 8 All work shall be installed in accordance with all applicable codes.

SCHEDULES

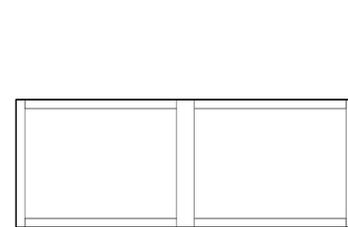
NO.	LOCATION	SIZE (W X H)	DOOR THICKNESS	FRAME MATERIAL	FRAME ELEVATION	FRAME FINISH	DOOR MATERIAL	DOOR ELEVATION	DOOR FINISH	HARDWARE	REMARKS
101	ENTRY	8'-4" x 8'-8 1/2"		AL	3/A1.1	CL ANODIZE	GLASS/ AL	3/A1.1		GROUP 3	
102	OFFICE ENTRY	8'-4" x 8'-8 1/2"		AL	5/A1.1	CL ANODIZE	GLASS/ AL	5/A1.1		GROUP 4	
103	CONFERENCE	8'-4" x 8'-8 1/2"		AL	5/A1.1	CL ANODIZE	GLASS/ AL	5/A1.1		GROUP 4	
104	WOMEN'S	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	4/A1.1	VARNISH	GROUP 2	
105	MEN'S ROOM	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	4/A1.1	VARNISH	GROUP 2	
106	JANITOR'S	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	4/A1.1	VARNISH	GROUP 5	
107	BREAK ROOM	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	2/A1.1	VARNISH	GROUP 1	
108	WAREHOUSE ENTRY	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	2/A1.1	VARNISH	GROUP 1	
109	IT ROOM	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	4/A1.1	VARNISH	GROUP 5	
110	OFFICE	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	2/A1.1	VARNISH	GROUP 1	
111	OFFICE	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	2/A1.1	VARNISH	GROUP 1	
112	OFFICE	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	2/A1.1	VARNISH	GROUP 1	
113	OFFICE	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	2/A1.1	VARNISH	GROUP 1	
114	OFFICE	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	2/A1.1	VARNISH	GROUP 1	
115	OFFICE	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	2/A1.1	VARNISH	GROUP 1	
116	OFFICE	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	WOOD	2/A1.1	VARNISH	GROUP 1	
117	ENTRANCE	8'-4" x 8'-8 1/2"	1 1/2"	HM	2/A1.1	PAINT	GLASS	3/A1.1		GROUP 3	
118	EGRESS	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	STEEL	2/A1.1		GROUP 6	
119	EGRESS	3'-0" x 6'-8"	1 1/2"	HM	2/A1.1	PAINT	STEEL	2/A1.1		GROUP 6	
120	OVERHEAD SECTIONAL	14'-0" x 15'-0"								GROUP 7	R 4.75
121	OVERHEAD SECTIONAL	9'-0" x 10'-0"								GROUP 7	R 4.75
122	OVERHEAD SECTIONAL	9'-0" x 10'-0"								GROUP 7	R 4.75
123	OVERHEAD SECTIONAL	14'-0" x 15'-0"								GROUP 7	R 4.75

DOOR GENERAL NOTES:

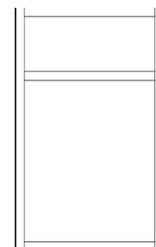
1. VERIFY HINGE DIRECTION OF ALL DOORS ON FLOOR PLANS.
2. TEMPERED GLASS SHALL BE INSTALLED IN ALL DOORS WITH GLAZING AS REQUIRED PER CODE
3. PRIOR TO PURCHASING INTERIOR AND EXTERIOR DOORS; VERIFY FINAL MANUFACTURER, DESIGN, STYLE, HARDWARE, WOOD SPECIES, AND FINISHES WITH OWNER.
4. GLASS ENTRY DOORS TO HAVE U FACTOR OF .77 OR BETTER.
5. OTHER EXTERIOR DOORS TO HAVE U FACTOR OF 0.37 OR BETTER.

GROUP	LOCATION	HARDWARE	REMARKS
GROUP 1	OFFICE	HINGES LOCKSET WALL MOUNTED STOP	OFFICE
GROUP 2	RESTROOM	HINGES LOCKSET WALL MOUNTED STOP	PRIVACY
GROUP 3	ENTRY	HINGES LOCKSET WALL MOUNTED STOP	KAWNEER MFR STANDARD KAWNEER MFR STANDARD
GROUP 4	INTERIOR STORE FRONT	HINGES LOCKSET WALL MOUNTED STOP	KAWNEER MFR STANDARD KAWNEER MFR STANDARD KAWNEER MFR STANDARD
GROUP 5	STORAGE	HINGES LOCKSET OVERHEAD STOP	STORE ROOM
GROUP 6	REAR ENTRY	HINGES LOCKSET OVERHEAD STOP	STORE ROOM
GROUP 7	GARAGE	BY DOOR MFGR.	COORDINATE CYLINDER WITH DOOR MFG.

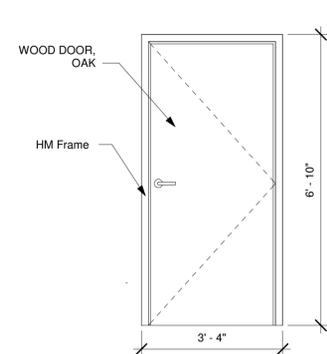
WALL TAG	DESCRIPTION	WIDTH	HEIGHT	SOUND BATT	FINISH
A1	5/8" GYP. BD., 3/8" MTL. STUD, 5/8" GYP. BD. @ 16" O.C.	4 7/8"	6" ABOVE CEILING	NO	PAINT & RUBBER COVE BASE
A2	5/8" GYP. BD., 5/8" MTL. STUD, 5/8" GYP. BD. @ 16" O.C.	6 7/8"	6" ABOVE CEILING	YES	PAINT, CERAMIC TILE, CERAMIC COVE BASE
A3	5/8" GYP. BD., 3/8" MTL. STUD, 5/8" GYP. BD. @ 16" O.C.	4 7/8"	6" ABOVE CEILING	YES	PAINT & RUBBER COVE BASE



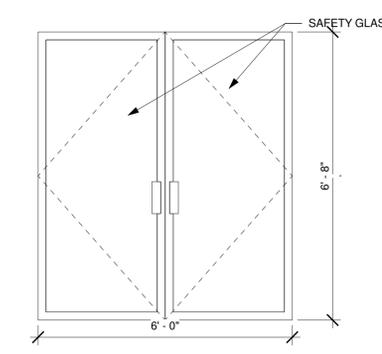
5 WINDOW B
1/2" = 1'-0"



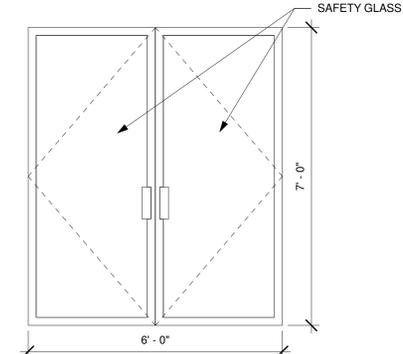
4 WINDOW A
1/2" = 1'-0"



3 Office Door Elevation
1/2" = 1'-0"



2 Interior Storefront Door
1/2" = 1'-0"



1 Entrance Door Elevation
1/2" = 1'-0"

TYPE	SIZE (W x H)	HEAD	OPERATION	REMARKS	QTY	TYPE
A	3'-6" x 5'-6"	8'-8 1/2"	NON OPERABLE	KAWNEER 2X4.5 STOREFRONT FIXED 451 T TRIFAB	26	A
B	8'-0" x 3'-0"	18'-0"	NON OPERABLE	KAWNEER 2X4.5 STOREFRONT FIXED 451 T TRIFAB	4	B

WINDOW GENERAL NOTES:

1. TEMPERED GLAZING SHALL BE INSTALLED IN ALL WINDOWS IN HAZARDOUS LOCATIONS AS REQUIRED PER SECTION 2015 I.B.C
2. DOORS SHALL BE GLAZED WITH TEMPERED GLASS
3. PROVIDE OPAQUE GLASS AT ALL BATHROOMS, TOILET ROOMS, AND SHOWERS PER OWNER SPECS
4. VERIFY WITH OWNER LOCATION OF AN INTERNAL BLINDS BETWEEN WINDOW GLAZING
5. ALL NEW WINDOWS TO HAVE U-FACTOR OF 0.32 OR BETTER, RE: APPLICABLE CODES

PLUMBING FIXTURE TABLE					
OCCUPANT LOAD CALCULATIONS	OCCUPANT LOAD		TOTALS		
	OFFICE (B OCCUPANCY)	100 S.F./OCCUPANT	3,821.4 S.F.	38.2 OCCUPANTS	
PLUMBING DATA B OCCUPANCY	WAREHOUSE (S OCCUPANCY)		TOTALS		
	500 S.F./OCCUPANT	21,706 S.F.	44 OCCUPANTS		
S OCCUPANCY	MALE	1/25 FOR THE FIRST 50 OCCUPANTS : .76 REQ.	1/40 FOR THE FIRST 80 OCCUPANTS : .48 REQ.	1/100 OCCUPANTS 1 REQ.	1 REQ.
	FEMALE	1/25 FOR THE FIRST 50 OCCUPANTS : .76 REQ.	1/40 FOR THE FIRST 80 OCCUPANTS : .48 REQ.	1/100 OCCUPANTS 1 REQ.	1 REQ.
FIXTURES REQUIRED	MALE	.98 REQUIRED 1 PROVIDED	.5 REQUIRED 1 PROVIDED	1 PROVIDED	1 PROVIDED
	FEMALE	.98 REQUIRED 1 PROVIDED	.5 REQUIRED 1 PROVIDED	1 PROVIDED	1 PROVIDED

CODE INFORMATION

APPLICABLE CODES:
 2015 INTERNATIONAL BUILDING CODE
 2015 INTERNATIONAL FIRE CODE
 2015 INTERNATIONAL MECHANICAL CODE
 2015 INTERNATIONAL PLUMBING CODE
 2015 INTERNATIONAL FUEL GAS CODE
 2015 INTERNATIONAL ENERGY CONSERVATION CODE
 2017 NATIONAL ELECTRICAL CODE
 ICC/ANSI A117.1 - 2009 (ACCESSIBILITY DESIGN CODE)

OCCUPANCY: S-1 WAREHOUSE
 B OFFICE (ACCESSORY USE)

CONSTRUCTION TYPE: TYPE I-B
 SPRINKLERED: YES
 UNSEPARATED MIXED USE PER TABLE 508.4

FLOOR AREA
 S-1 WAREHOUSE TOTAL 21,706 S.F.
 B OFFICE TOTAL 4,043 S.F.
 TOTAL 25,749 S.F.

ALLOWABLE AREA PER TABLE 506.2 = 70,000 S.F.

BUILDING HEIGHT 30' 1 STORY
 ALLOWABLE HEIGHT PER TABLE 504.3: 75'-0"
 ALLOWABLE STORIES PER TABLE 504.4: 3

OCCUPANTS
 WAREHOUSE OCCUPANCY 1 OCCUPANT PER 500 S.F.
 BUSINESS OCCUPANCY 1 OCCUPANT PER 100S.F.

TOTAL
 2 EXITS REQUIRED; 250' MAXIMUM TRAVEL DISTANCE PERMITTED
 4 EXITS REQUIRED; 250' MAXIMUM TRAVEL DISTANCE PERMITTED

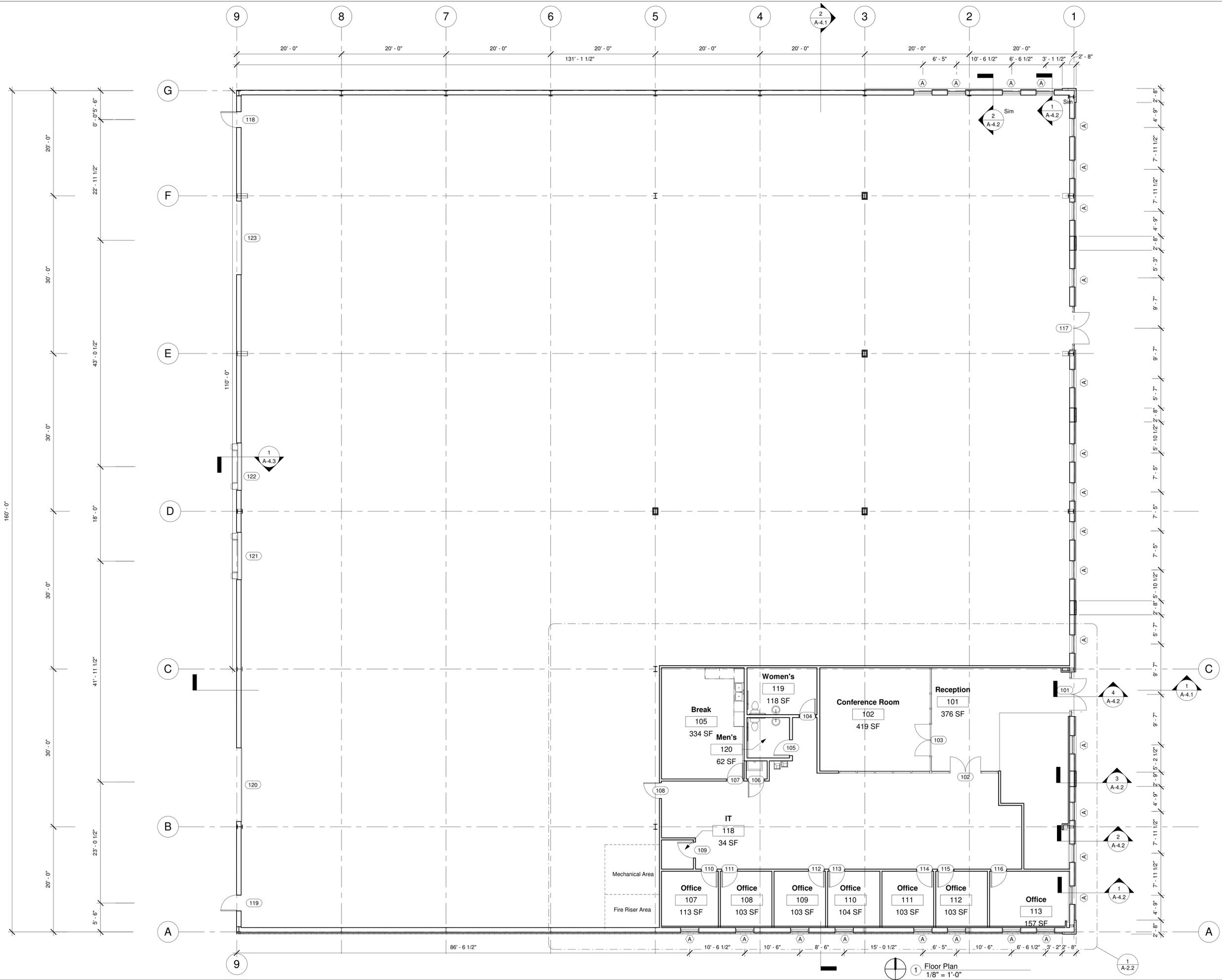
ARCHITECTURE
 FIRM
 1234 COLORADO STREET
 123.456.7890

ABC WAREHOUSE
 123 MAIN ST.
 DENVER, COLORADO 80203

JOB NUMBER: PROJECT NUMBER
 FILE:
 DESIGNED:
 DRAWN: AA
 CHECKED: JJ
 DATE: 01/20/2019
 REVISIONS:

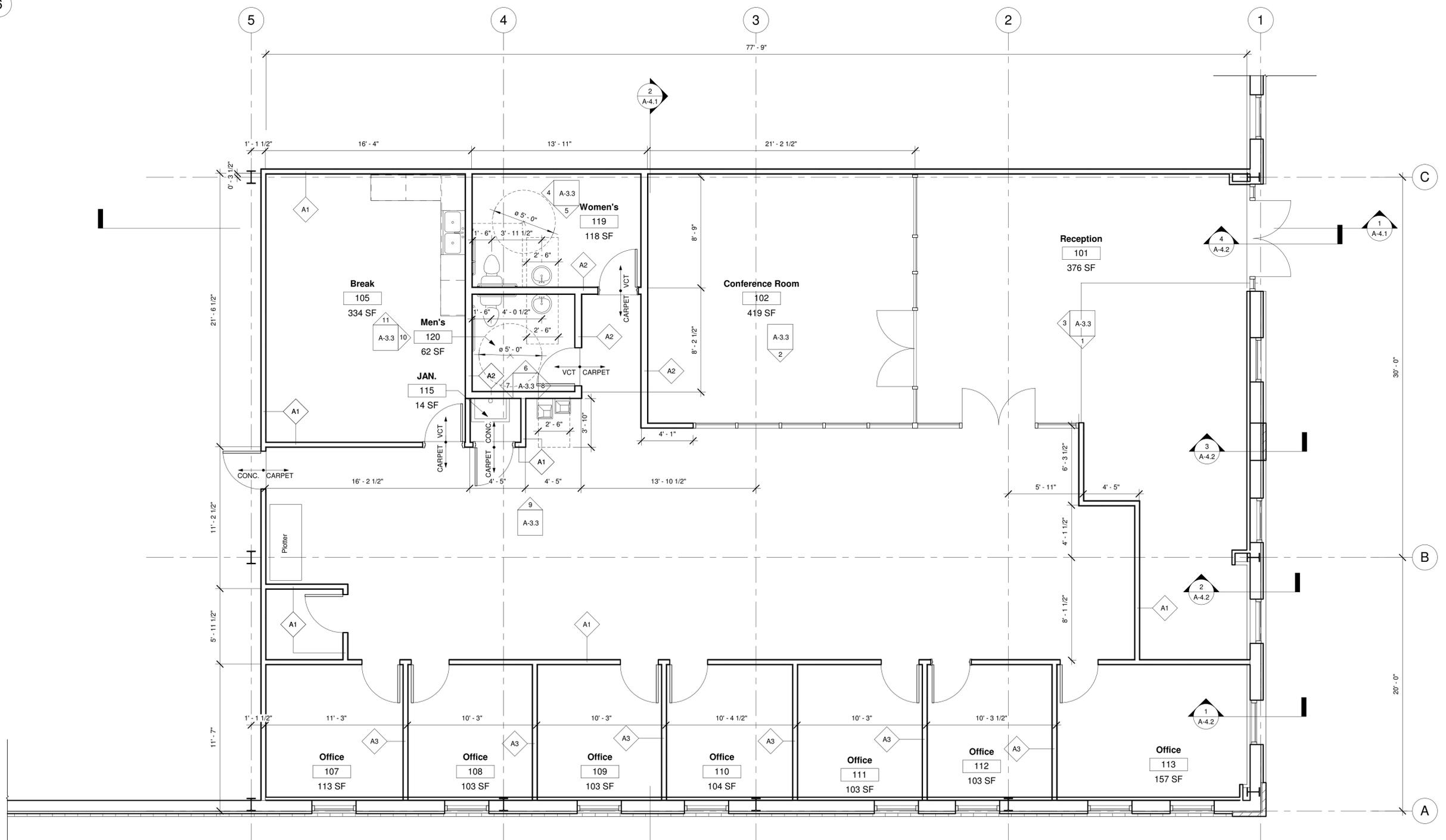
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COVER SHEET
 SHEET NUMBER:

A-1.1



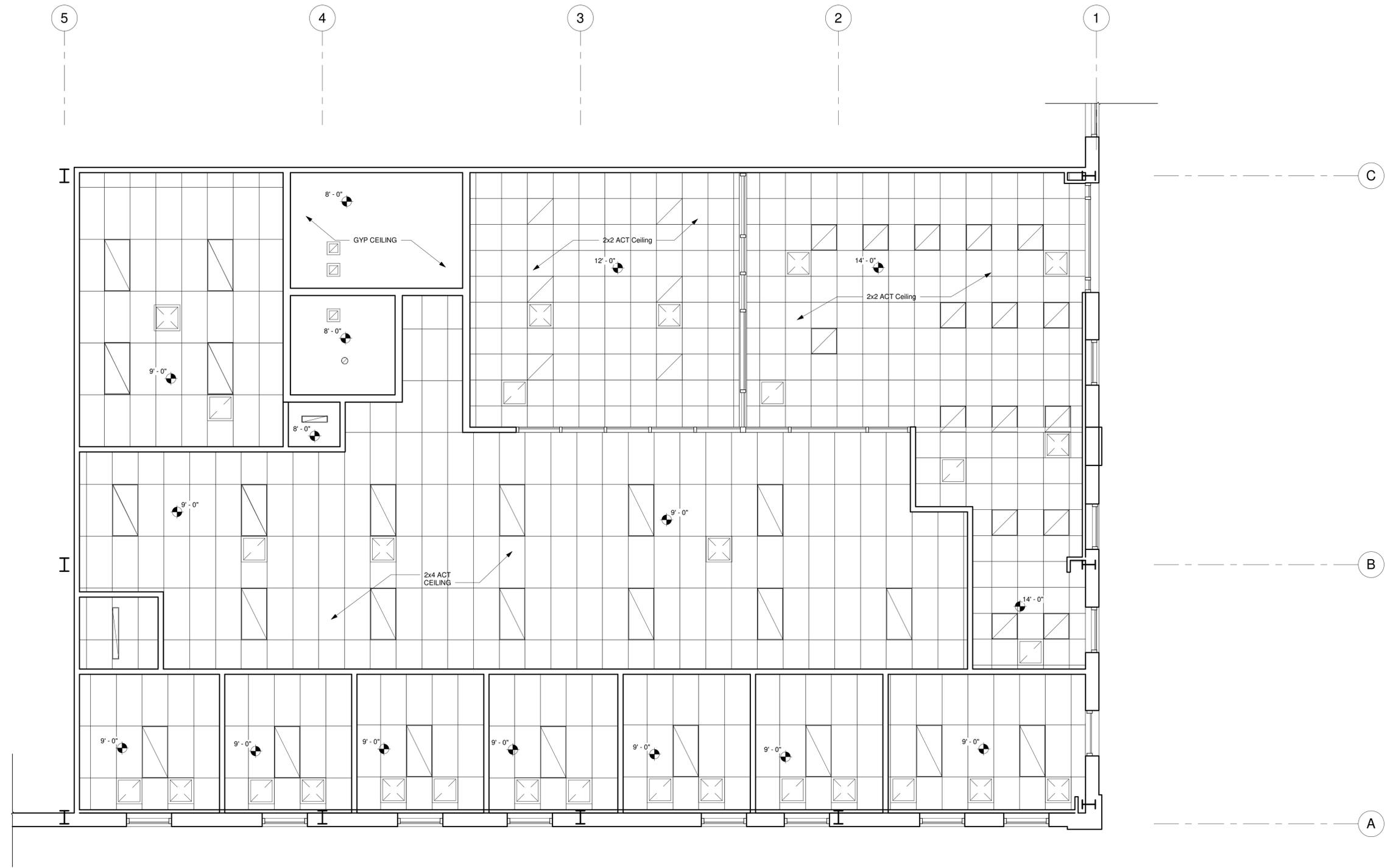
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FILE:
DESIGNED:
DRAWN: AA
CHECKED: JJ
DATE: 01/20/2019
REVISIONS:

SHEET TITLE:
ENLARGED PLAN
SHEET NUMBER:
A-2.2



1 Enlarged Office Plan
1/4" = 1'-0"

ROOM FINISH SCHEDULE				
NO.	NAME	FLOOR FINISH	WALL FINISH	CEILING FINISH
101	RECEPTION	CARPET	PAINT; GYP	SUPENDED ACOUSTICAL
102	CONFERENCE	CARPET	PAINT; GYP	SUPENDED ACOUSTICAL
103	WOMEN'S	CERAMIC TILE	PAINT; GYP; CERAMIC TILE	GYP ON MTL. STUD
104	MEN'S	CERAMIC TILE	PAINT; GYP; CERAMIC TILE	GYP ON MTL. STUD
105	BREAK ROOM	VCT	PAINT; GYP	SUPENDED ACOUSTICAL
106	IT	SEALED CONC.	PAINT; GYP	SUPENDED ACOUSTICAL
107	OFFICE	CARPET	PAINT; GYP	SUPENDED ACOUSTICAL
108	OFFICE	CARPET	PAINT; GYP	SUPENDED ACOUSTICAL
109	OFFICE	CARPET	PAINT; GYP	SUPENDED ACOUSTICAL
110	OFFICE	CARPET	PAINT; GYP	SUPENDED ACOUSTICAL
111	OFFICE	CARPET	PAINT; GYP	SUPENDED ACOUSTICAL
112	OFFICE	CARPET	PAINT; GYP	SUPENDED ACOUSTICAL
113	OFFICE	CARPET	PAINT; GYP	SUPENDED ACOUSTICAL
114	SHOW ROOM	CARPET	PAINT; GYP	SUPENDED ACOUSTICAL



② MAIN LEVEL - Callout 1
1/4" = 1'-0"

**ARCHITECTURE
FIRM**
1234 COLORADO STREET
123.456.7890

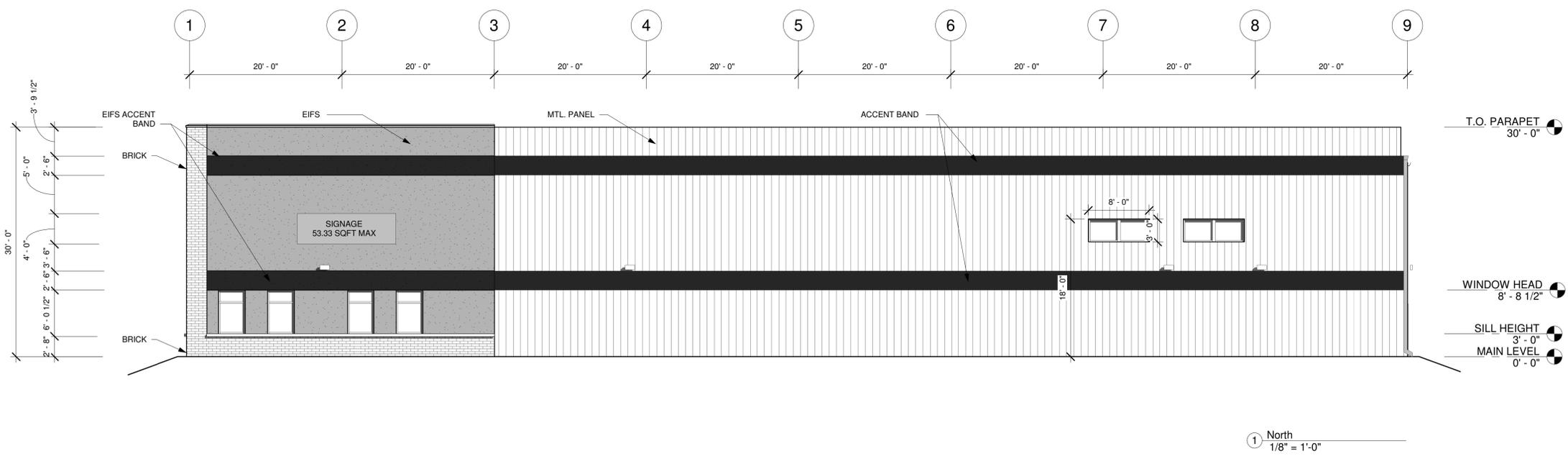
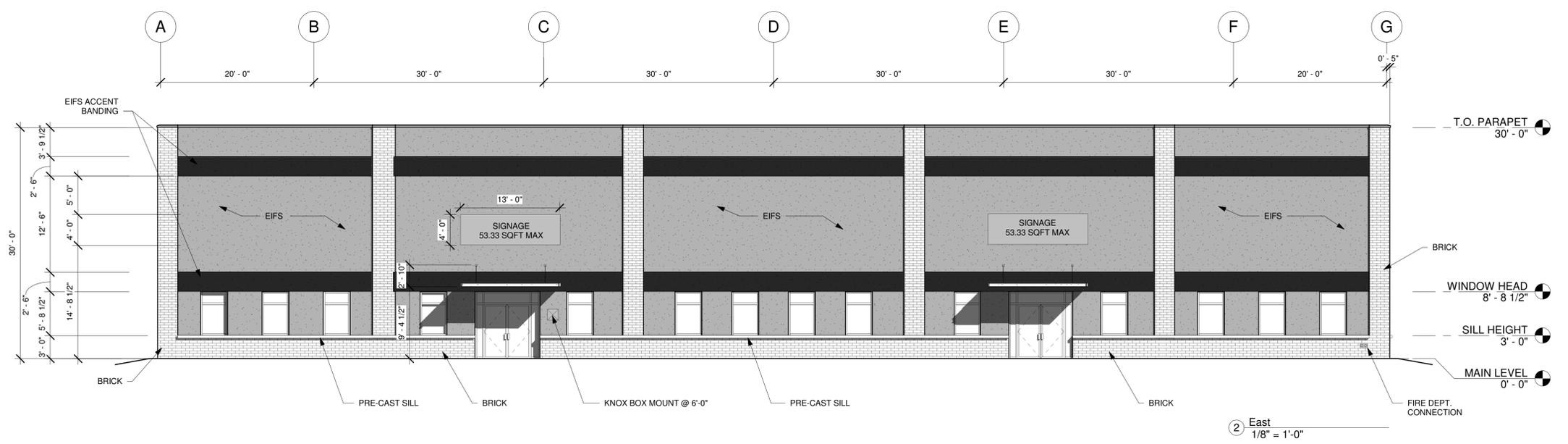
ABC WAREHOUSE
123 MAIN ST.
DENVER, COLORADO 80203

JOB NUMBER: PROJECT NUMBER
FILE:
DESIGNED:
DRAWN: AA
CHECKED: JJ
DATE: 01/20/2019
REVISIONS:

SHEET TITLE:
RCP
SHEET NUMBER:
A-2.3

Color Schedule

-  Brick: Hearthside -Velour Texture
-  EIFS: SW9111 Antler Velvet
-  Mil. Panel : Antique Bronze
-  Accent Band: SW 7582 Salute

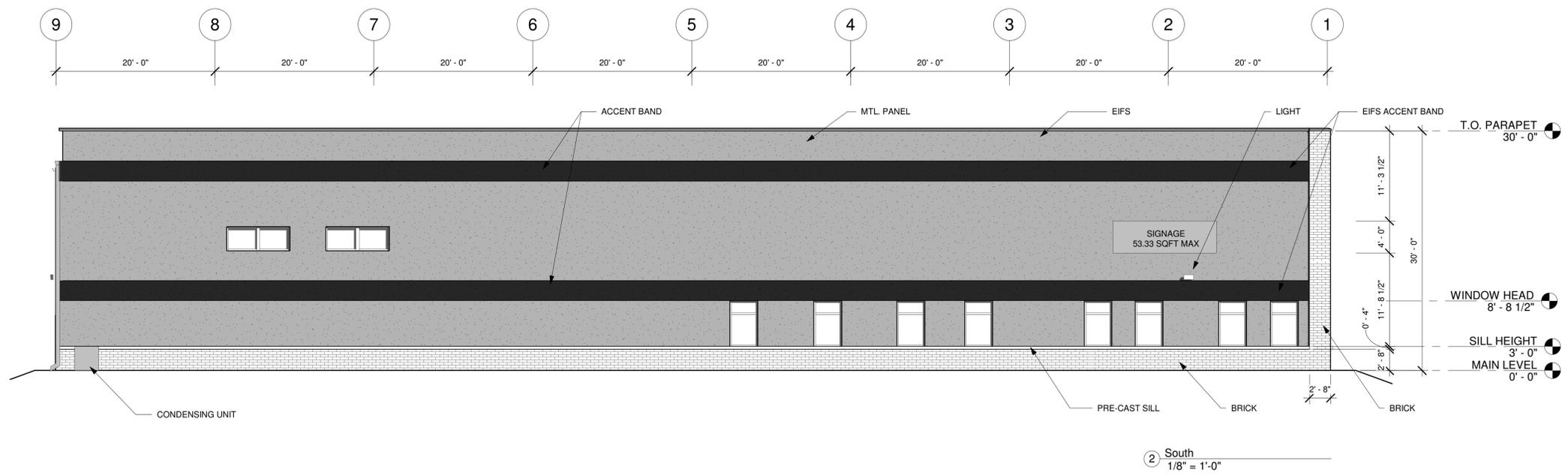
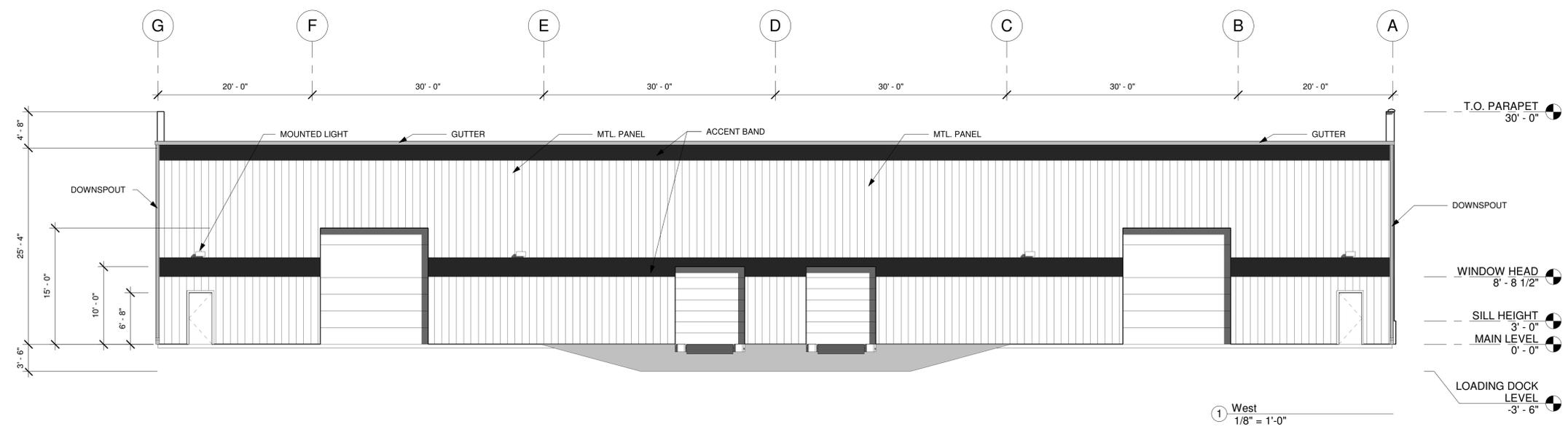


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FILE:
DESIGNED:
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REVISIONS:

SHEET TITLE:
**ELEVATION
N/E**
SHEET NUMBER:
A-3.1

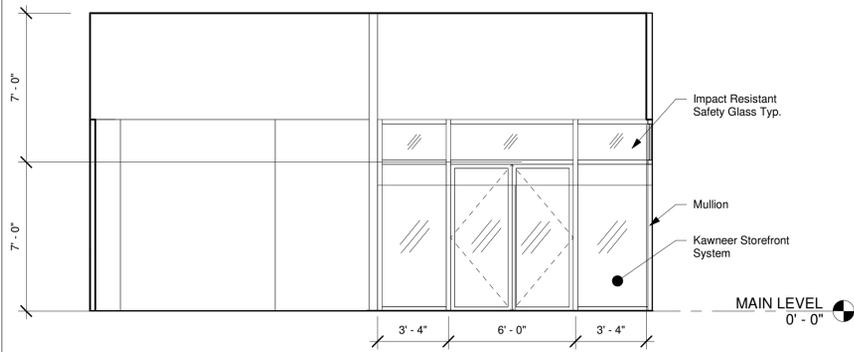
Color Schedule

-  Brick: Hearthside -Velour Texture
-  EIFS: SW9111 Antler Velvet
-  Mtl. Panel : Antique Bronze
-  Accent Band: SW 7582 Salute

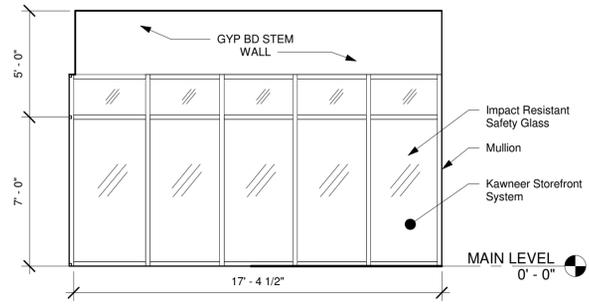


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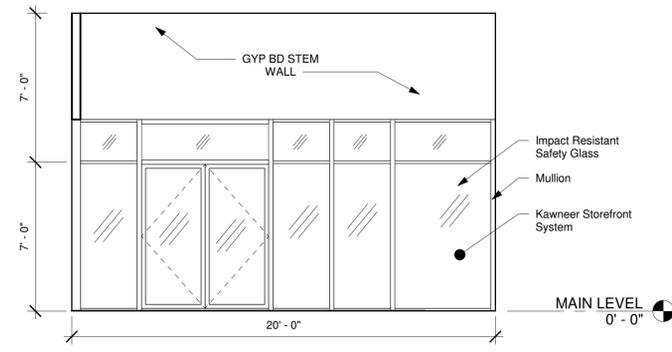
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ELEVATION S/W
 SHEET NUMBER:
A-3.2



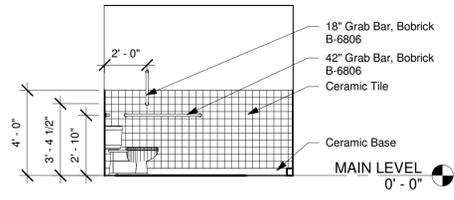
1 Showroom & Office entrance
1/4" = 1'-0"



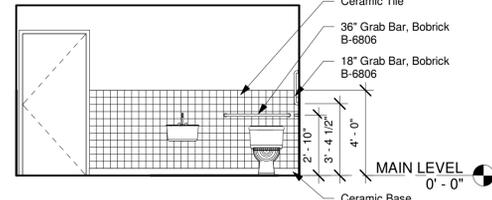
2 Storefront at Conf. Room
1/4" = 1'-0"



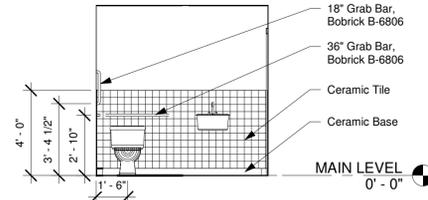
3 Reception
1/4" = 1'-0"



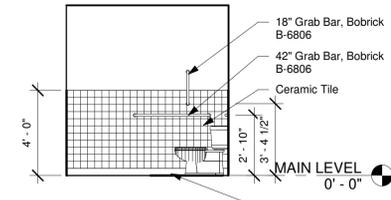
4 Woman's Room
1/4" = 1'-0"



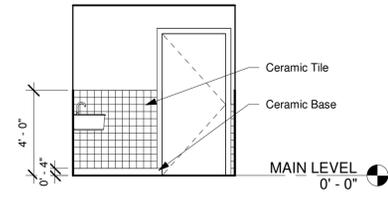
5 Women's Room Entrance
1/4" = 1'-0"



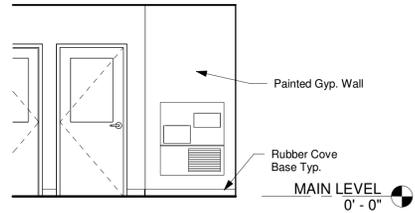
6 Men's Room
1/4" = 1'-0"



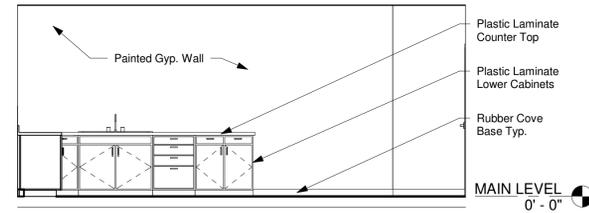
7 Men's Room
1/4" = 1'-0"



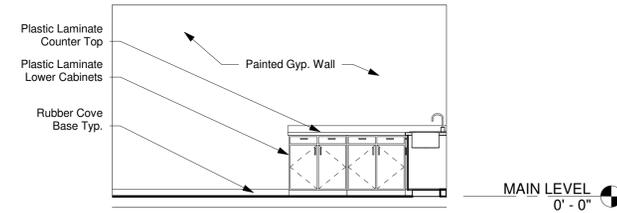
8 Men's Room Entrance
1/4" = 1'-0"



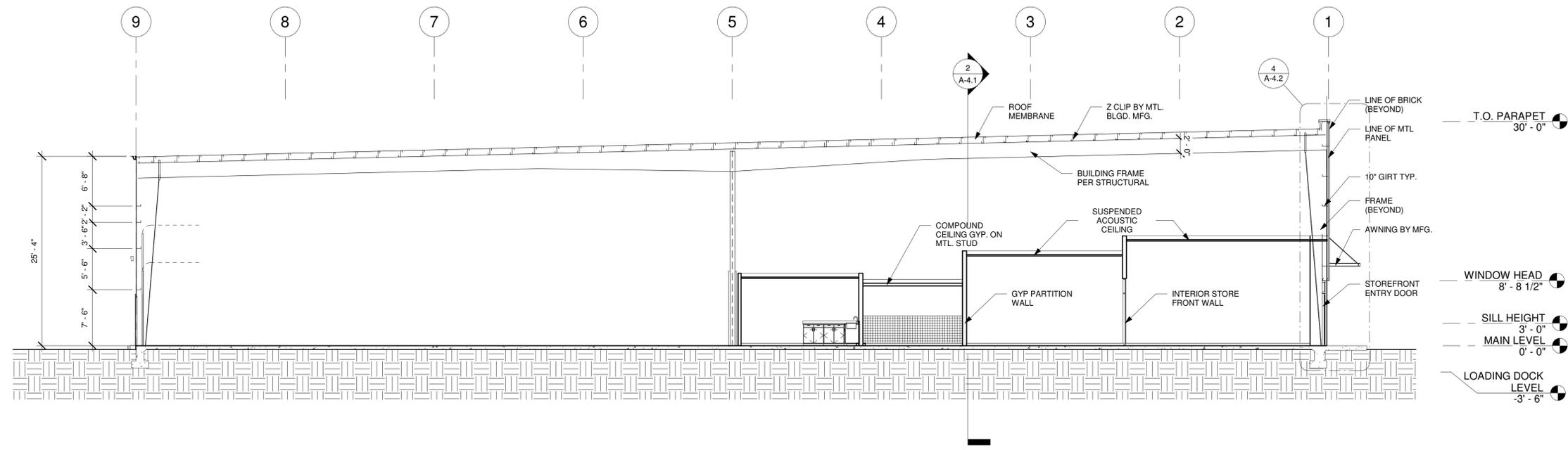
9 JANITOR CLOSET
1/4" = 1'-0"



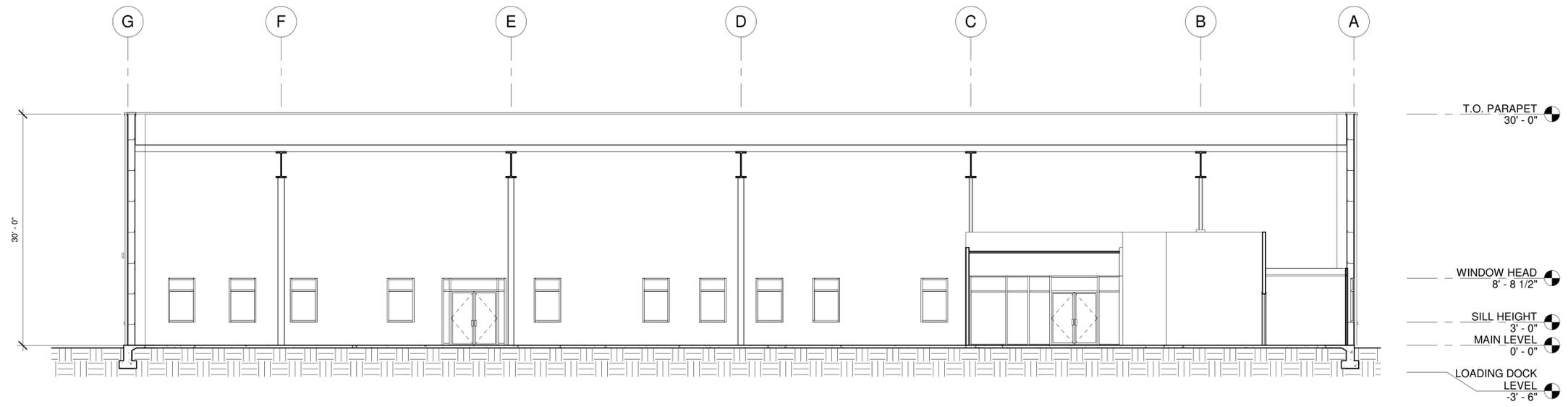
10 BREAK ROOM ELEV. WEST WALL
1/4" = 1'-0"



11 BREAK ROOM ELEVATION NORTH WALL
1/4" = 1'-0"



1 EAST/WEST SECTION
1/8" = 1'-0"

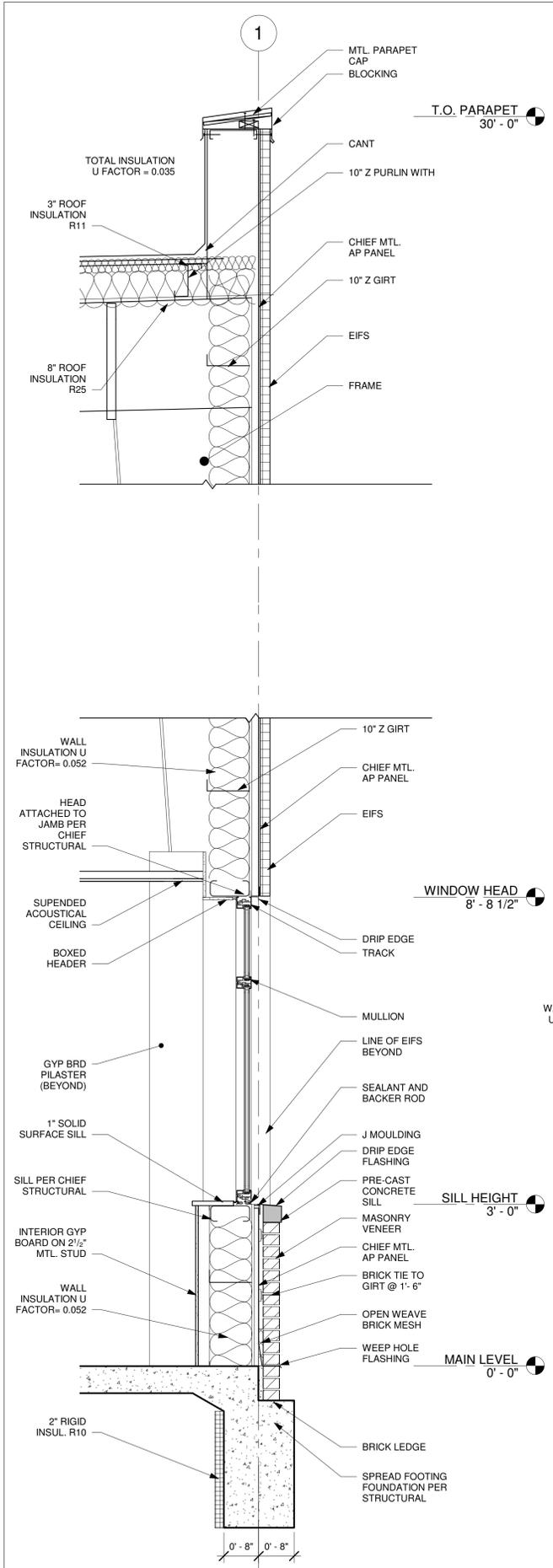


2 NORTH/SOUTH SECTION
1/8" = 1'-0"

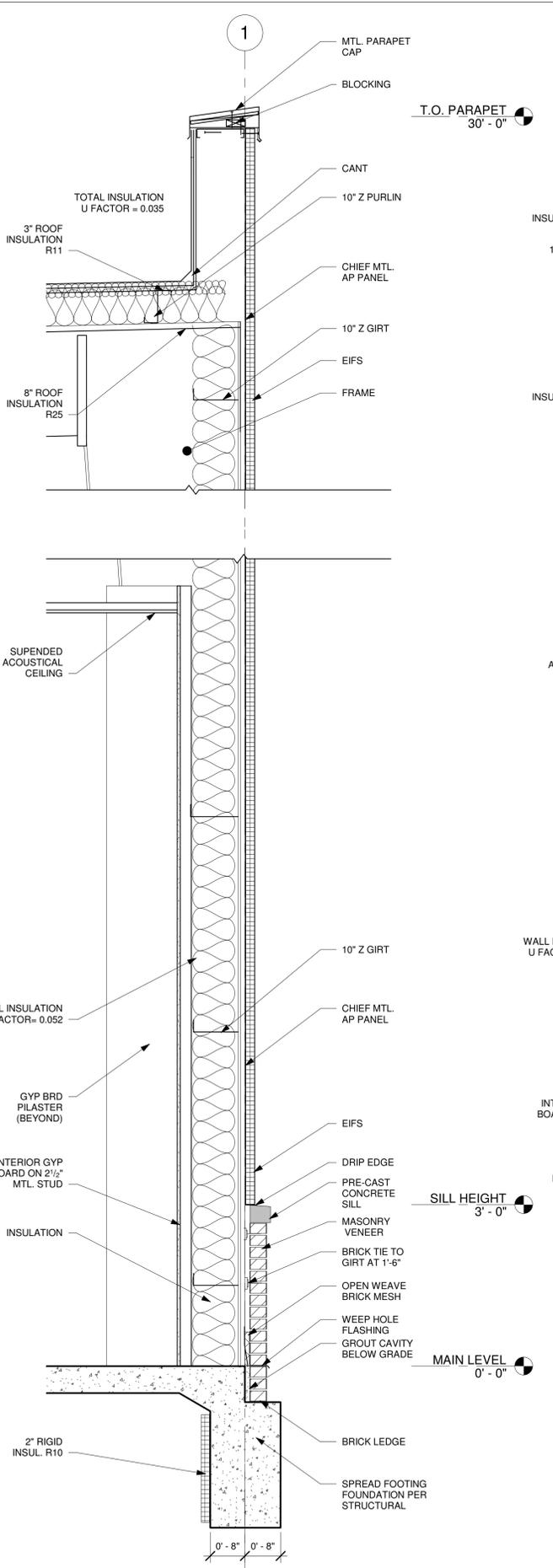
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REVISIONS:

SHEET TITLE:
SECTION

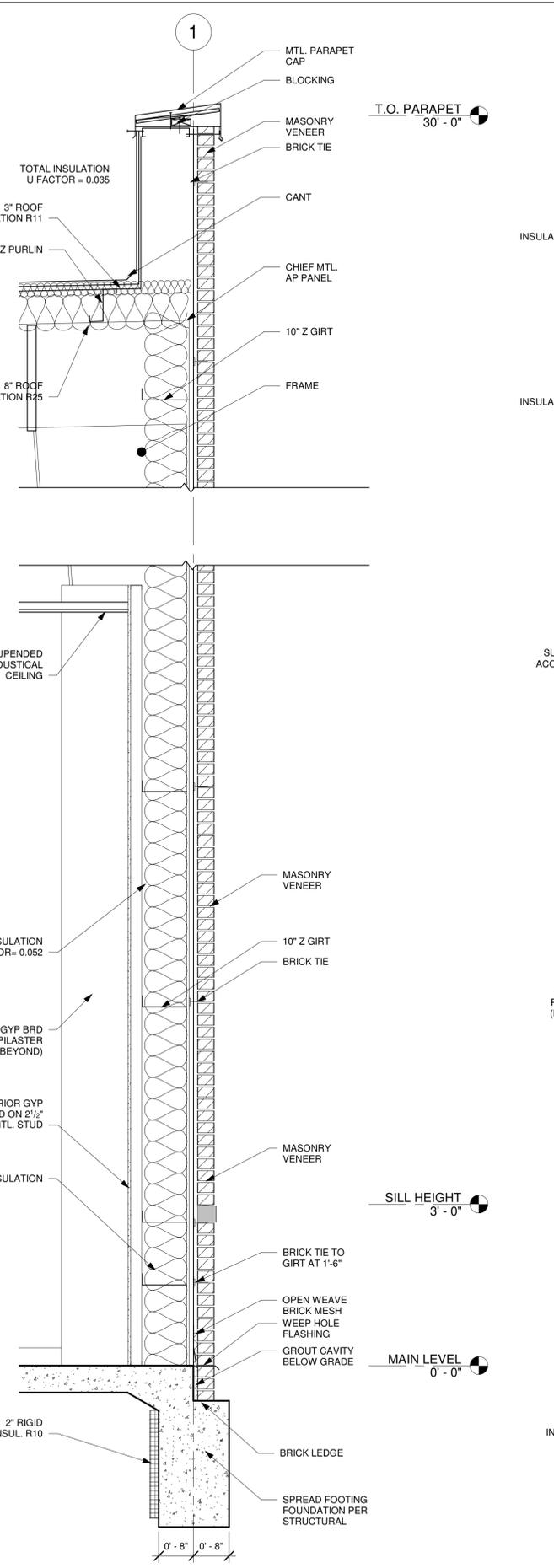
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A-4.1



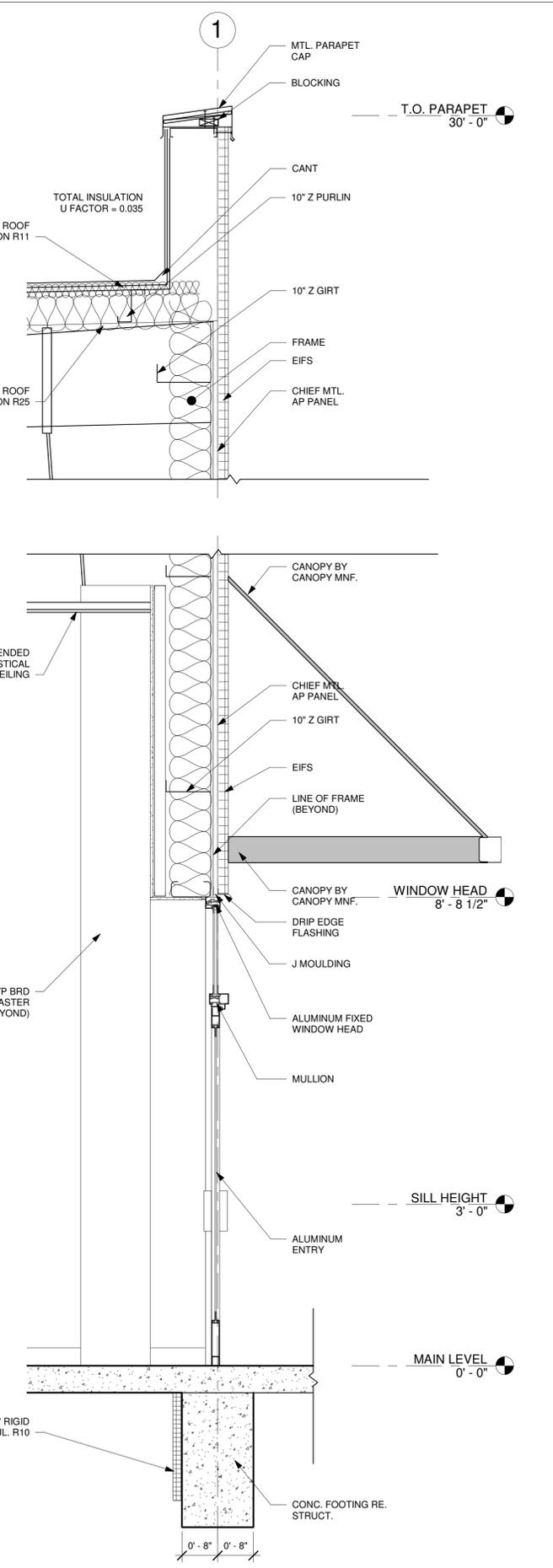
1 Section @ Office Window
3/4" = 1'-0"



2 Section @ Typ. Wall
3/4" = 1'-0"



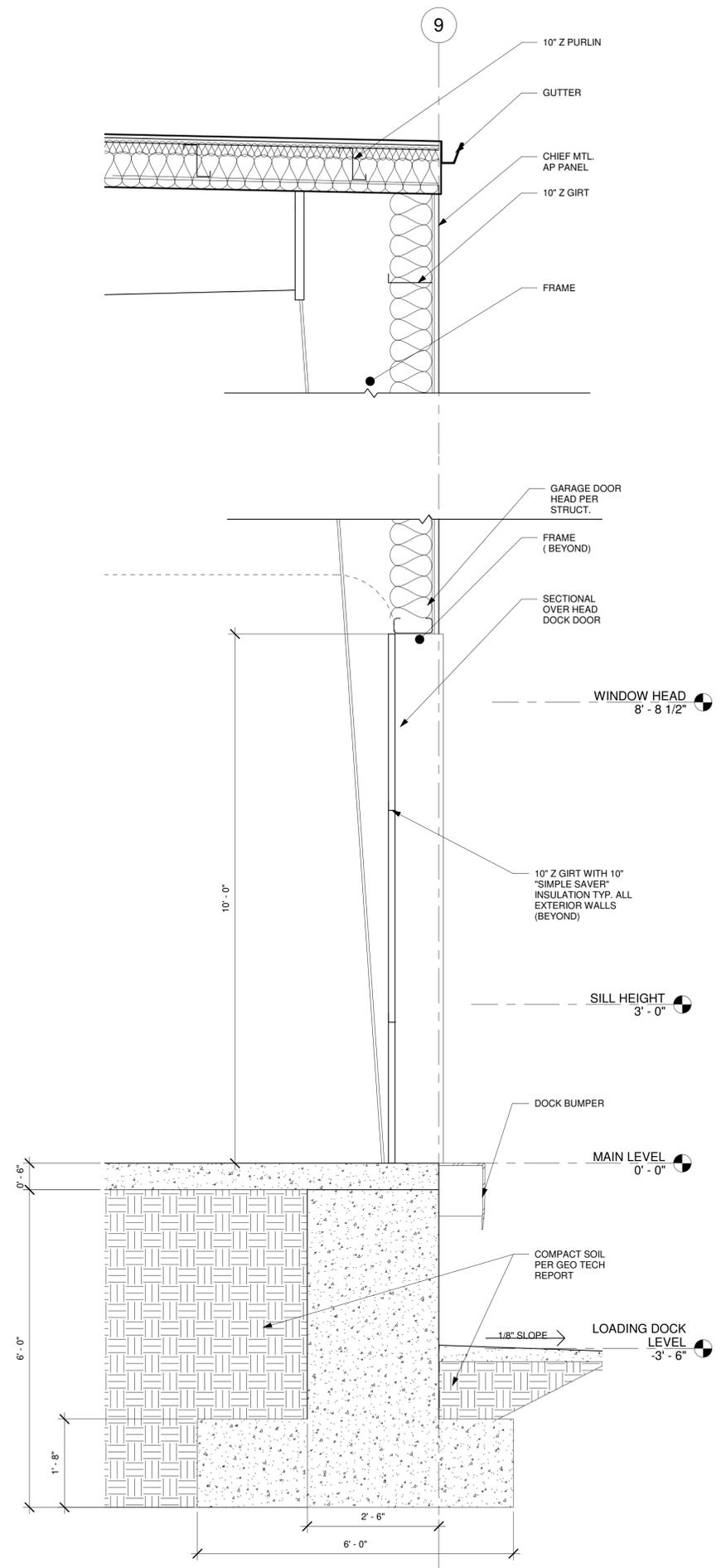
3 Section @ Masonry Pilaster
3/4" = 1'-0"



4 Section @ Office Entry
3/4" = 1'-0"

JOB NUMBER: PROJECT NUMBER
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SHEET TITLE:
WALL SECTION
SHEET NUMBER:

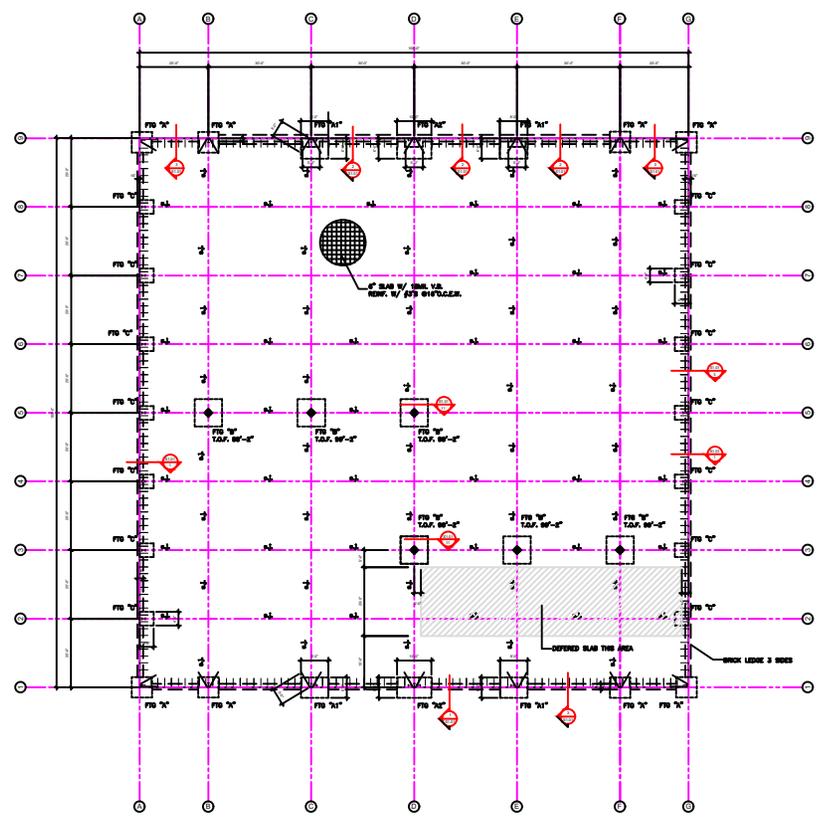


1 Section @ Dock Door
3/4" = 1'-0"

- A. DESIGN**
- STRUCTURAL DESIGN CONFORMS TO THE 2015 INTERNATIONAL BUILDING CODE) AS ADOPTED BY THE CITY OF AURORA, COLORADO
 - DESIGN LOADS:
 - FLOOR LOADS:
 - GROUND SNOW LOAD = 30 PSF
 - LIVE LOADS = 100 PSF (IBC 2015 SIDEWALK LOADS)
 - DEAD LOADS = 25 PSF
 - COLLATERAL LOAD = 5 PSF
 - CRANE LOADING = BY MANUFACTURER
 - WIND LOADS PER ASCE7-10 AND IBC 2015 = 115 MPH
 - SEISMIC LOAD (EQUIVALENT LATERAL FORCE)
 - SEISMIC USE GROUP = III
 - SPECTRAL RESPONSE = 20%g, SD1 = 6%g
 - SOIL SITE CLASS = "D"
 - LATERAL SYSTEM = OTHER (R=3.0)
 - FOUNDATIONS ARE SPREAD FOOTINGS DESIGNED FOR AN ALLOWABLE BEARING OF 1500 PSF.
 - COMPACTION TEST WILL SHALL BE TAKEN PRIOR TO PLACEMENT OF FOOTINGS AND SLAB.
- B. EARTHWORK**
- COMPACT FILL OF LOW PLASTICITY IN 8" LAYERS, TO NOT LESS THAN 95% NOR MORE THAN 100 PERCENT OF STANDARD PROCTOR DENSITY AT A MOISTURE CONTENT WITHIN 1 TO +3% OF OPTIMUM MOISTURE. ALL AREAS SUPPORTING SLAB SHALL BE A MINIMUM OF 24" LEAN FILL (CRUSH RUN, OR ROCK DUST) WITH 15 MIL. VAPOR BARRIER.
 - ALL EARTH WORK SHALL BE IN STRICT ACCORDANCE WITH CTC-GEOTEK, GEOTECHNICAL INVESTIGATION DATED JUNE 25, 2019, PROJECT NUMBER 192020. ANY DEVIATION SHALL BE BROUGHT TO THE ATTENTION OF THE GEOTECH ENGINEER AND TO RECEIVE WRITTEN APPROVAL OF SAME.
- C. CONCRETE**
- ALL CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:
 - f_c = 4000 PSI (28 DAY COMPRESSIVE STRENGTH)
 - MAX. SLUMP = 5" +/- 1"
 - MAX. WATER/CEMENT RATIO = 0.50
 - AIR ENTRAINMENT = 6% +/- 1%
 - REINFORCING STEEL SHALL BE ACCORDANCE WITH ASTM A-615 SPECIFICATIONS AND SHALL BE GRADE 60.
 - ALL CONTINUOUS REINFORCING IN FOUNDATIONS SHALL BE LAP SPLICED 48 BAR DIAMETERS MINIMUM.
 - SLABS ON GRADE SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS. PLACE ON 6" OF CLEAN GRANULAR FILL AND 10MIL VAPOR BARRIER. THICKNESS AS INDICATED ON THE PLANS.
 - REINFORCING SHALL BE PLACED USING METAL CHAIRS OR CONCRETE BLOCKS @5'-0" O.C. CLAY BRICKS ARE NOT ALLOWED.
 - CONCRETE COVER OVER MAIN REINFORCING SHALL BE AS SHOWN ON THE PLANS. WHERE NOT SHOWN, COVER AS REQ'D BY ACI 318-02 SECTION 7.7.
 - WHERE NOT SPECIFICALLY CALLED OUT, REINFORCEMENT SHOULD MATCH SIMILAR CONDITIONS. ALL CONCRETE IS TO BE FULLY REINFORCED PER ACI SPECIFICATIONS.
 - ALL SAW CONTROL JOINTS ARE TO BE CUT AS SOON AS POSSIBLE AFTER THE FLOOR SLAB IS PLACED, SUCH THAT NO SURFACE DEFECTS ARE MADE FROM FLOOR TRAFFIC. ALL CONCRETE FLOORS ARE TO BE WET CURED FOR 72 HOURS IMMEDIATELY AFTER PLACEMENTS, AS PER THE RECOMMENDATIONS OF ACI 302, UNLESS OTHERWISE NOTED.
- D. STEEL**
- METAL USED SHALL BE FY=36 KSI, AND EXPOSED PLATE.
 - A325N FOR CONNECTION BOLTS, A36 FOR ANCHOR BOLTS.
 - A307 THREADED ROD FOR ALL WALL PENETRATIONS.

- E. WOOD**
- LVL'S SHALL HAVE DESIGNED TO RESIST MOISTURE AND OTHER AFFECTS OF WEATHERING. PAINTING OR OTHER MEANS OF WEATHER PROTECTION BY OTHERS
 - DESIGN BENDING STRESS OF ALL WOOD MATERIALS SHALL BE $F_b = 1,800$ PSI OR BETTER
 - WOOD DECKING SHALL BE SOUTHERN PINE, TREATED, AND ATTACHED WITH A MINIMUM 1-3/8" X8" LAG SCREWS, RECESSED INTO DECKING FOR A SMOOTH SURFACE FINISH. SURFACE PROTECTION FROM THE ELEMENTS BY OTHERS.

- E. GENERAL**
- SEE ARCHITECTURAL FOR ITEMS NOT SHOWN HEREIN. VERIFY THE SIZE AND LOCATIONS OF ALL ELEMENTS.
 - CONTRACTOR MUST NOTIFY THE ENGINEER OF ANY CONDITIONS THAT ARE NOT AS SHOWN IN THE DRAWINGS OR SPECIFICATIONS. 500 LBS OR CONCRETE REINFORCEMENT SHALL BE ALLOCATED TO THE ENGINEER OF RECORD FOR PLACEMENT IF REQUIRED.
 - PROVIDE ADEQUATE SHORING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND AND UNBALANCED LOADS DUE TO CONSTRUCTION.
 - REVIEWER REQUIRES TWO (2) WEEKS OR 10 BUSINESS DAYS FOR REVIEW OF ALL SHOP DRAWINGS. DRAWING REVIEW IS FOR CONFORMITY TO CONCEPT AND NOT A DETAILED REVIEW FOR ACCURACY.



FOUNDATION PLAN

Foundation Notes:

Foundation Type	V Max Load	H Max Load	Width	Length	Mat Size
Type "A"	30 kips	15 kips	6 ft	6 ft	7-#6's E.W.
Type "A1"	37 kips	20 kips	6 ft	8 ft	7-#6's / 9-#6's
Type "A2"	42 kips	20 kips	6 ft	10 ft	7-#6's / 11-#6's
Type "B"	80 kips	0 kips	8 ft	8 ft	8-#6's E.W.
Type "C"	10 kips	3 kips	4 ft	4 ft	4-#6's E.W.

Plan Notes:

- Provide #4's at 24" o.c. along perimeter edges as show for slab attachment
- Work Anchor Bolts and Base Plate Details with PEMB drawings.
- Saw joints to follow grid lines typical as shown, Soft Cut is recommended.
- Work this drawing with that Anchor Bolt drawing provided by PEMB Manufacturer
- Report any discrepancies to the EOR prior to construction.
- Anchor bolts to be set with plywood patterns, Anchor Bolts to extend fully into footing and engage mat reinforcement.
- Reinforcement of slab shall consist of either 6x6 WWF 2.1x2.1 or #3's at 18" o.c. Chairs are required.
- Floor Flatness shall be defined by ACI 117-10 for Conventional Flatness

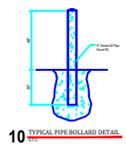
XYZ Wall Systems
Colorado Street
Denver, Colorado

John A. Smith, PE, RA
Colorado Lic. 00061

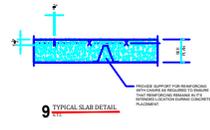
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SHEET NO.

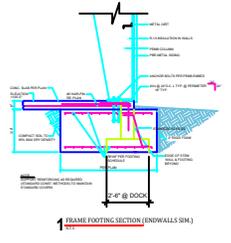
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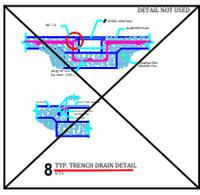
10 TYPICAL PIPE BOLLARD DETAIL
SEE



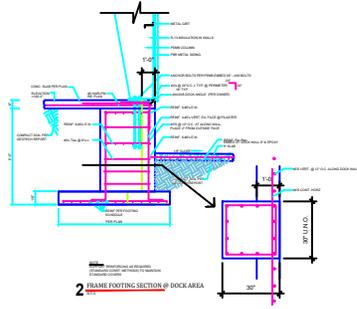
9 TYPICAL SLAB DETAIL
SEE



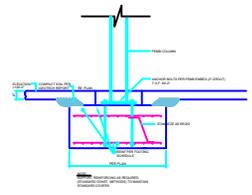
1 FRAME FOOTING SECTION @ INDOOR WALL SIM
SEE



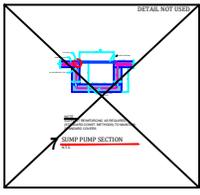
8 TYP. TRENCH DRAIN DETAIL
DETAIL NOT USED



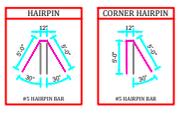
2 FRAME FOOTING SECTION @ DOCK AREA
SEE



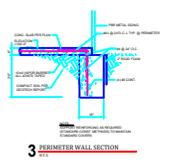
11 INTERIOR COLUMN DET.
SEE



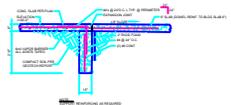
7 DUMP PUMP SECTION
DETAIL NOT USED



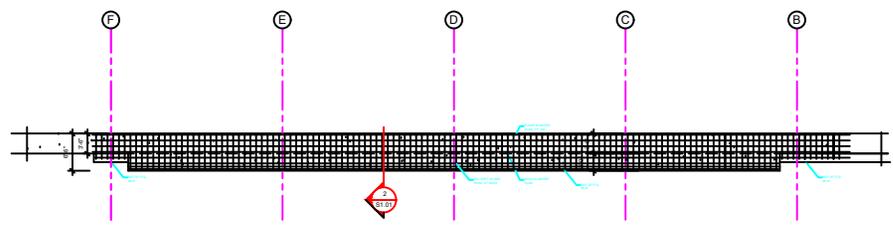
6 HORIZ. REINF. AT FRAME BEND DET.
SEE



3 PERIMETER WALL SECTION
SEE



4 PERIMETER FOOTING SECTION @ OPENING
SEE



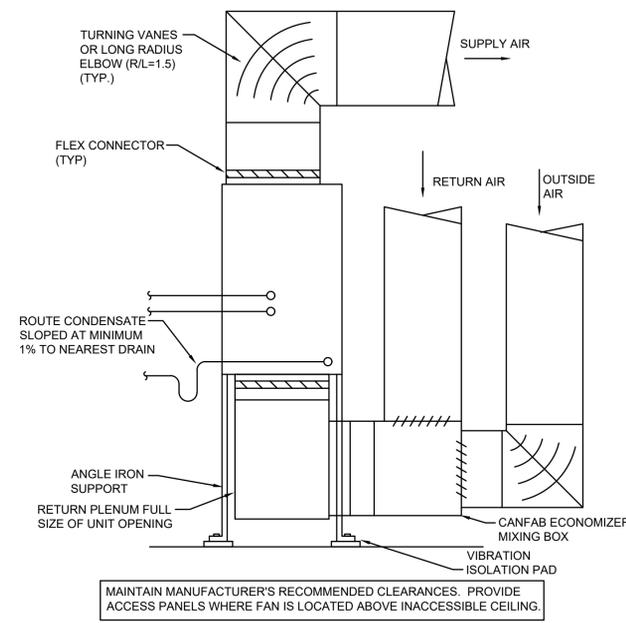
12 ROCK STEM WALL ELEVATION
SEE

5 NOT USED
SEE

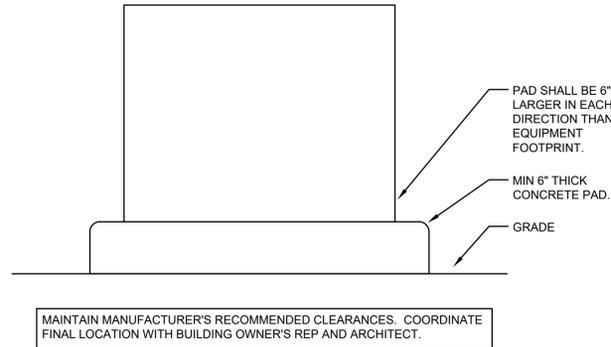
MECH LEGEND	
—————	DUCTWORK
—————	PIPING
- - - - -	EXISTING
—————	EQUIPMENT CLEARANCE
— — — — —	THERMOSTAT WIRE
☒	SUPPLY DIFFUSER/GRILLE
☒	RETURN GRILLE/REGISTER
☒	EXHAUST GRILLE
⊕	THERMOSTAT
⊕	HUMIDISTAT
⊕	SENSOR
Ⓜ	MOTOR OPERATED DAMPER
FD	FIRE DAMPER
FSD	FIRE SMOKE DAMPER
MD	BACKDRAFT DAMPER
∑	GATE VALVE
∑	BALL VALVE
∑	CHECK VALVE
∑	BALANCING VALVE
↕	STRAINER
↕	PIPE DOWN
↕	PIPE UP

ABBREVIATIONS			
A/C	ABOVE CEILING	LWS	LOOP WATER SUPPLY
AFF	ABOVE FINISHED FLOOR	LWT	LEAVING WATER TEMPERATURE
AHU	AIR HANDLING UNIT	MAX	MAXIMUM
B/F	BELOW FLOOR	MFR	MANUFACTURER
B/G	BELOW GRADE	MD	MANUAL DAMPER
BD	BACKDRAFT DAMPER	MIN	MINIMUM
CFM	CUBIC FEET PER MINUTE	MOD	MOTOR OPERATED DAMPER
CHWS	CHILLED WATER SUPPLY	OA	OUTSIDE AIR
CHWR	CHILLED WATER RETURN	PIU	POWER INDUCTION UNIT
CWR	CONDENSER WATER RETURN	PSI	POUNDS PER SQUARE INCH
CWS	CONDENSER WATER SUPPLY	RA	RETURN AIR
DB	DRY BULB	RL	REFRIGERANT LIQUID
DWG	DRAWING	RS	REFRIGERANT SUCTION
EA	EACH	RTU	ROOFTOP UNIT
EWT	ENTERING WATER TEMPERATURE	SD	SMOKE DETECTOR
EXH	EXHAUST	SEN	SENSIBLE
ESP	EXTERNAL STATIC PRESSURE	SF	SQUARE FEET
FD	FIRE DAMPER	SS	SPLIT SYSTEM
FSD	FIRE SMOKE DAMPER	TEMP	TEMPERATURE
GPM	GALLONS PER MINUTE	TOT	TOTAL
HD	HUB DRAIN	TSTAT	THERMOSTAT
HP	HORSE POWER	TYP	TYPICAL
HZ	HERTZ	UNO	UNLESS NOTED OTHERWISE
IN	INCHES	VAV	VARIABLE AIR VOLUME
KW	KILOWATT	WB	WET BULB
LAT	LEAVING AIR TEMPERATURE	WC	WATER COLUMN
LB	POUND	WT	WEIGHT
LWR	LOOP WATER RETURN	WSHP	WATER SOURCE HEAT PUMP

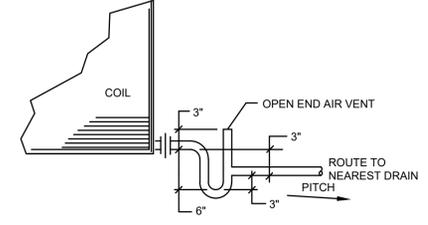
- ### MECHANICAL GENERAL NOTES
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES. INTERPRETATION OF THE CODE IS SUBJECT TO THE AUTHORITY OF THE PREVAILING JURISDICTION.
 - THESE DRAWINGS ARE DIAGRAMATIC IN NATURE AND GENERALLY SHOW THE LOCATIONS AND ARRANGEMENTS OF EQUIPMENT AND SYSTEMS. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND ELEVATIONS OF ALL EQUIPMENT AND SYSTEMS PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PURCHASE OR INSTALLATION OF ANY EQUIPMENT OR SYSTEMS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY FIELD OBSERVATIONS THAT MAY REQUIRE SIGNIFICANT DEVIATIONS IN THE CONSTRUCTION DOCUMENTS.
 - SUBMITTAL AND SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING.
 - ALL PENETRATIONS OF RATED WALLS, PARTITIONS, AND FLOORS SHALL BE PROTECTED SO AS TO MAINTAIN THE RATING. PROVIDE FIRE DAMPERS, SLEEVES, AND RATED SEALANT AS REQUIRED BY CODE. ALL FIRE DAMPERS SHALL BE TYPE B AND UL 555 RATED.
 - THE CONTRACTOR SHALL VERIFY ELECTRICAL REQUIREMENTS WITH ALL TRADES FOR ALL EQUIPMENT PRIOR TO ORDERING.
 - ALL DUCTWORK DIMENSIONS SHOWN ARE INTERIOR CLEAR DIMENSIONS. ALL LINED AND DOUBLE WALLED DUCTWORK SHALL MATCH THE INTERIOR CLEAR DIMENSIONS INDICATED ON THE PLANS.
 - PROVIDE AIR TURNING VANES IN ALL SQUARE ELBOWS.
 - ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS.
 - FLEX DUCT SHALL CONFORM TO THE REQUIREMENTS OF UL181 FOR CLASS 1 FLEXIBLE AIR DUCTS WITH A MINIMUM OF R-6 INSULATION. MAXIMUM LENGTH OF FLEX DUCT SHALL BE 5'-0". FLEX DUCT SHALL BE INSTALLED FREE OF CRIMPS AND SAGS. PROVIDE SQUARE TO ROUND ADAPTERS AS NECESSARY TO CONNECT TO DIFFUSERS.
 - ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION. INSULATION SHALL BE 2" THICK FIBERGLASS, 1.0 LB PER CU. FT. DUCT INSULATION WITH FACTORY APPLIED FOIL VAPOR BARRIER.
 - ALL REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
 - HVAC REFRIGERANT PIPING INSULATION SHALL BE A FLEXIBLE, CLOSED-CELL ELASTOMERIC PIPE INSULATION WITH A MINIMUM THERMAL CONDUCTIVITY OF 0.27 AT 75°F (ASTM C177). INSULATION MUST CONFORM TO ASTM C534 GRADE 1, TYPE I.
 - HVAC PIPING INSULATION SHALL BE FIBERGLASS WITH A MINIMUM THERMAL CONDUCTIVITY OF 0.27 AT 75°F (ASTM C177). PROVIDE WITH FACTORY APPLIED VAPOR BARRIER JACKET. ALL JOINTS AND SEAMS SHALL BE SEALED TO MAINTAIN THE CONTINUITY OF THE VAPOR BARRIER JACKET.
 - ALL CONDENSATE DRAIN LINES SHALL BE PVC AND TRAPPED AS REQUIRED. CONDENSATE SHALL BE SLOPED AT 1/8" PER FOOT PER IPC. PROVIDE CONDENSATE PUMPS WHERE INDICATED ON THE SCHEDULE.
 - MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES FOR EQUIPMENT INSTALLATION AND MAINTENANCE.
 - PROVIDE VIBRATION ISOLATORS ON ALL EQUIPMENT WITH MOVING PARTS.
 - ALL THERMOSTATS ARE TO BE INSTALLED AT 48" AFF UNLESS NOTED OTHERWISE. COORDINATE EXACT LOCATIONS OF ALL THERMOSTATS WITH ARCHITECT.
 - PROVIDE INSULATED BASES FOR ANY THERMOSTATS LOCATED ON EXTERIOR WALLS, COLUMNS, OR WALLS ADJACENT TO UNCONDITIONED SPACES.
 - COORDINATE ALL AIR DISTRIBUTION DEVICE LOCATIONS WITH LIGHTING AND ARCHITECTURAL REFLECTED CEILING PLAN.
 - PROVIDE EQUIPMENT PAD FOR ANY EQUIPMENT MOUNTED ON FLOOR OR GRADE. EQUIPMENT PAD SHALL BE 6" THICK CONCRETE THAT EXTENDS 6" BEYOND THE FOOTPRINT OF THE EQUIPMENT IN EACH DIRECTION.
 - CONTRACTOR SHALL PROVIDE TEST AND BALANCE REPORT TO OWNER'S REPRESENTATIVE. ALL SYSTEMS SHALL BE BALANCED TO VALUES INDICATED ON THE CONSTRUCTION DOCUMENTS. TEST AND BALANCE CONTRACTOR SHALL BE AABC OR NEBB CERTIFIED.



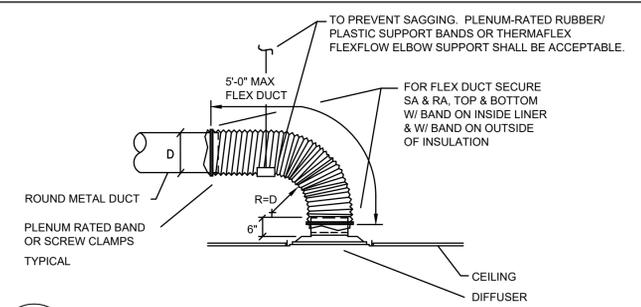
2 AIR HANDLER DETAIL VERTICAL
NTS



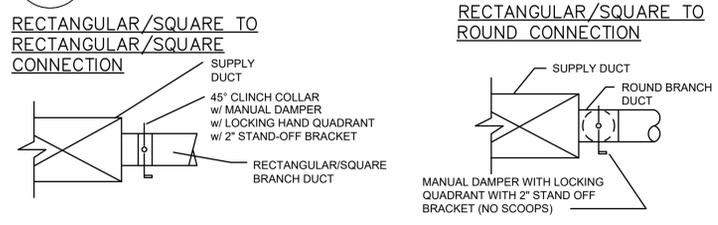
1 CONDENSING UNIT DETAIL
NTS



5 CONDENSATE DRAIN TRAP DETAIL
NTS



3 DIFFUSER CONNECTION DETAIL
NTS



4 BRANCH DUCT CONNECTION DETAIL
NTS

ARCHITECTURE FIRM
 1234 COLORADO STREET
 123.456.7890

ABC WAREHOUSE
 123 MAIN ST.
 DENVER, COLORADO 80203

JOB NUMBER:
 File:
 DESIGNED:
 DRAWN: AA
 CHECKED: JJ
 DATE: 01/20/2019
 REVISIONS:
 CHECK SET
 NOT FOR CONSTRUCTION

SHEET TITLE:
Notes & Schedules
 SHEET NUMBER:
M0.1

PACKAGED DX FURNACE UNIT SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	LOCATION	AREA SERVED	DX COIL & CONDENSING UNIT				O.A. TEMP. °F	# OF COMPS	COND. UNIT ELECTRICAL			SUPPLY FAN DATA					GAS HEATING SECTION DATA				INDOOR UNIT ELECTRICAL			DIMENSIONS			SEER	WEIGHT LB.	REMARKS				
					EAT		LAT				SENS. CAP. MBH	TOTAL CAP. MBH	MCA	MOCP	VOLTS / Ø	TOTAL CFM @ ALT.	O.A. CFM @ ALT.	ESP @ ALT. IN. W.C.	HP	VOLTS / Ø	FAN CONTROL	TYPE	EAT °F	LAT °F	MBH INPUT @ S.L.	MBH OUTPUT @ ALT.	VOLTS / Ø	MCA				MOCP	LENGTH IN.	WIDTH IN.	HEIGHT IN.
					DB °F	WB °F	DB °F	WB °F																											
CU-1 / AHU-1	TRANE	S9V2C080 / 4TXCD010	SOUTH WALL	EXTERIOR OFFICES	80.0	67.0	55.0	54.0	44.8	58.9	105	1	31.0	50.0	208/1	2,250	110	0.5	1.0	208/1	VAV	FURNACE	65	88	80.0	65.2	120/1	13.9	15.0	29	22	34	14	150	1, 2, 3, 4, 5, 6, 7
CU-2 / AHU-2	TRANE	S9V2C080 / 4TXCD010	SOUTH WALL	INTERIOR OFFICE AREA	80.0	67.0	55.0	54.0	44.8	58.9	105	1	31.0	50.0	208/1	2,250	360	0.5	1.0	208/1	VAV	FURNACE	65	88	80.0	65.2	120/1	13.9	15.0	29	22	34	14	150	1, 2, 3, 4, 5, 6, 7

NOTES: 1. PROVIDE WITH FILTER.
 2. PROVIDE WITH THERMOSTAT.
 3. PROVIDE WITH 24 HOUR, 7 DAY PROGRAMMABLE THERMOSTAT.
 4. PROVIDE WITH CONDENSATE PUMP.
 5. PROVIDE WITH MANUFACTURER'S LONG LINE SET KIT.
 6. PROVIDE WITH MANUFACTURER'S LOW AMBIENT KIT. UNIT SHALL BE CAPABLE OF OPERATING IN COOLING MODE DOWN TO 40 DEGREES F.
 7. PROVIDE WITH CANFAB AIR-SIDE ECONOMIZER MIXING BOX 6451-MBO-TP-BK-BD.

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	TYPE	FRAME	MATERIAL	FINISH	REMARKS
SD	TITUS	OMNI	24X24 PLAQUE DIFFUSER	LAY-IN	STEEL	WHITE	1, 2
RG	KRUEGER	PAR	24x24 RETURN GRILLE	LAY-IN	STEEL	WHITE	1, 2
EG	KRUEGER	350RL	EXHAUST GRILLE	SURFACE MOUNT	STEEL	WHITE	1, 2

NOTES: 1. FINISH SHALL MATCH CEILING/WALL/FLOOR IN WHICH IT IS INSTALLED. COORDINATE FINISH WITH ARCHITECT.
 2. DIFFUSER FRAME SHALL MATCH CEILING/WALL/FLOOR IN WHICH IT IS INSTALLED. COORDINATE WITH ARCHITECTURAL RCP.

CEILING FAN SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	LOCATION	FAN TYPE	ELECTRICAL		WEIGHT LB	CONTROL	REMARKS
					HP	VOLTS/Ø			
CF-1	BIG ASS FANS	PF8-08	WAREHOUSE	CEILING	1	208/3	135	WALL SWITCH	1

NOTES: 1. PROVIDE WITH CONTROLLER.
 2. FAN TO BE TIED INTO FIRE SUPPRESSION SYSTEM. COORDINATE WITH FIRE PROTECTION ENGINEER/CONTRACTOR.

FAN SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	LOCATION	SERVICE	FAN TYPE	CFM @ ALT.	TSP IN. W.C. @ S.L.	ELECTRICAL		BACKDRAFT DAMPER	VIBRATION ISOLATION	ARRANGEMENT & MOUNTING	CONTROL	REMARKS
								HP	VOLTS/Ø					
EF-1	GREENHECK	CSP-B150	RESTROOM	EXHAUST	INLINE	135	0.5	.1	120/1	Y	Y	HORIZONTAL INLINE	OCCUPANCY SCHEDULE	
SF-1	GREENHECK	CSP-A710	SOUTH WAREHOUSE	VENTILATION	INLINE	530	0.3	.13	120/1	Y	Y	HORIZONTAL INLINE	OCCUPANCY SCHEDULE	

NOTES:

LOUVER SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	LOCATION	SIZE			MATERIAL	BIRD SCREEN	FINISH	MINIMUM FREE AREA %	REMARKS
				HEIGHT IN.	WIDTH IN.	DEPTH IN.					
L-1	RUSKIN	ELF375DX	SOUTH WALL	36	36	4	STEEL	Y	REFER TO ARCHITECTURAL	55	
L-2	RUSKIN	ELF375DX	SOUTH WALL	18	18	4	STEEL	Y	REFER TO ARCHITECTURAL	55	

NOTES:

UNIT HEATER SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	LOCATION	DISCHARGE	MBH OUTPUT (AT ALTITUDE)	CFM @ ALT.	MAX FLA.	MOCP	ELECTRICAL		WEIGHT LB.	EFFICIENCY %	MOUNTING HEIGHT FT.	REMARKS
									HP	VOLTS/Ø				
UH-1	REZNOR	UDBP 125	WAREHOUSE	HORIZONTAL	81.2	1,537	13.0	30.0	0.050	115/1	101	83	18	

NOTES: 1. PROVIDE WITH THERMOSTAT.

DUCT HEATER SCHEDULE

PLAN CODE	MANUFACTURER	MODEL	LOCATION	MOUNTING	KW	CFM OUTSIDE AIR	SIZE		ELECTRICAL		EFFICIENCY %	REMARKS
							HEIGHT IN.	WIDTH IN.	FLA	VOLTS/Ø		
DH-1	INDEECO	QUZ	WAREHOUSE	FLANGED	8.0	530	10	10	24	208/3	100	1

NOTES: 1. PROVIDE WITH TWO STAGE DUCT THERMOSTAT. SET TO MAINTAIN 60F (ADJ.)

VENTILATION SCHEDULE

UNIT	ZONE	SQFT	OCCUPANCY	PEOPLE / 1000 SQFT	# PEOPLE	CFM / PERSON	PEOPLE CFM	CFM / SQFT	AREA CFM	TOTAL VENT REQ
AHU-1	OFFICE 1	132	OFFICE	5	1	5	5	0.06	8	13
	OFFICE 2	132	OFFICE	5	1	5	5	0.06	8	13
	OFFICE 3	132	OFFICE	5	1	5	5	0.06	8	13
	OFFICE 4	132	OFFICE	5	1	5	5	0.06	8	13
	OFFICE 5	132	OFFICE	5	1	5	5	0.06	8	13
	OFFICE 6	132	OFFICE	5	1	5	5	0.06	8	13
	OFFICE 7	201	OFFICE	5	2	5	10	0.06	13	23
TOTAL										101
AHU-2	CONFERENCE	422	CONFERENCE	50	22	5	110	0.06	26	136
	BREAK ROOM	337	MULTIPURPSE	5	2	5	10	0.06	21	31
	RECEPTION	387	ENTRY LOBBY	10	4	5	20	0.06	24	44
	OPEN OFFICE	1200	OFFICE	5	6	5	30	0.06	72	102
	SHOW ROOM	375	ENTRY LOBBY	10	4	5	20	0.06	23	43
TOTAL										356
DH-1	SOUTH WAREHOUSE	8700	WAREHOUSE	-	-	-	-	0.06	522	522
	TOTAL									

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 1234 COLORADO STREET
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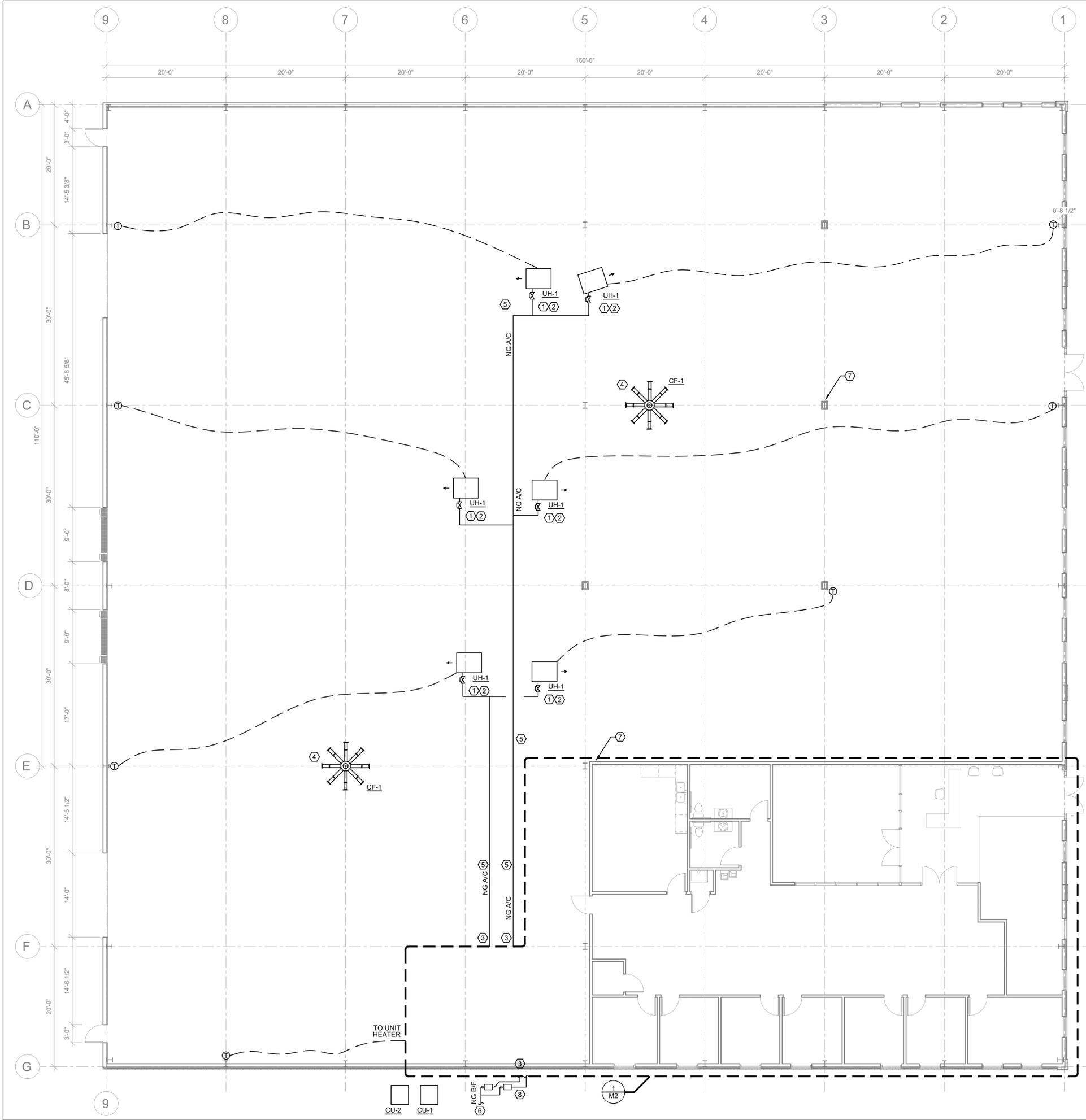
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 NOT FOR CONSTRUCTION

SHEET TITLE:

Notes &
 Schedules
 SHEET NUMBER:

M0.2



GENERAL NOTES	
1.	MANUFACTURER EQUIPMENT NAMEPLATES SHALL NOT BE COVERED OR PAINTED OVER. NAMEPLATE SHALL REMAIN VISIBLE AND LEGIBLE UPON CLOSE INSPECTION.
2.	COORDINATE EXACT LOCATION OF THERMOSTATS WITH ARCHITECT.
3.	MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES.

KEYNOTES	
①	COMMON VENT TWO UNIT HEATERS UP THROUGH ROOF. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
②	PROVIDE REGULATOR AND EXTEND GAS TO UNIT HEATER. REFER TO EQUIPMENT GAS PIPING DETAIL.
③	REFER TO SHEET M2 FOR CONTINUATION.
④	INSTALL CEILING FAN. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
⑤	REFER TO GAS RISER DIAGRAM ON P0.X FOR SIZING.
⑥	NATURAL GAS TO METER. COORDINATE METER LOCATION WITH CIVIL ENGINEER. REFER TO GAS METER DETAIL.
⑦	COORDINATE LOCATION OF CEILING FAN WALL MOUNTED CONTROLLERS WITH OWNER/ARCHITECT.
⑧	PROVIDE TWO NATURAL GAS METERS. EXTEND NG FROM METER-A TO SERVE OFFICE TENANT. EXTEND NG FROM METER-B TO SERVE NORTH TENANT. REFER TO GAS SERVICE ENTRANCE DETAIL.



1 FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

ARCHITECTURE FIRM
1234 COLORADO STREET
123.456.7890

ABC WAREHOUSE
123 MAIN ST.
DENVER, COLORADO 80203

JOB NUMBER:
File:
DESIGNED:
DRAWN: AA
CHECKED: JJ
DATE: 01/20/2019
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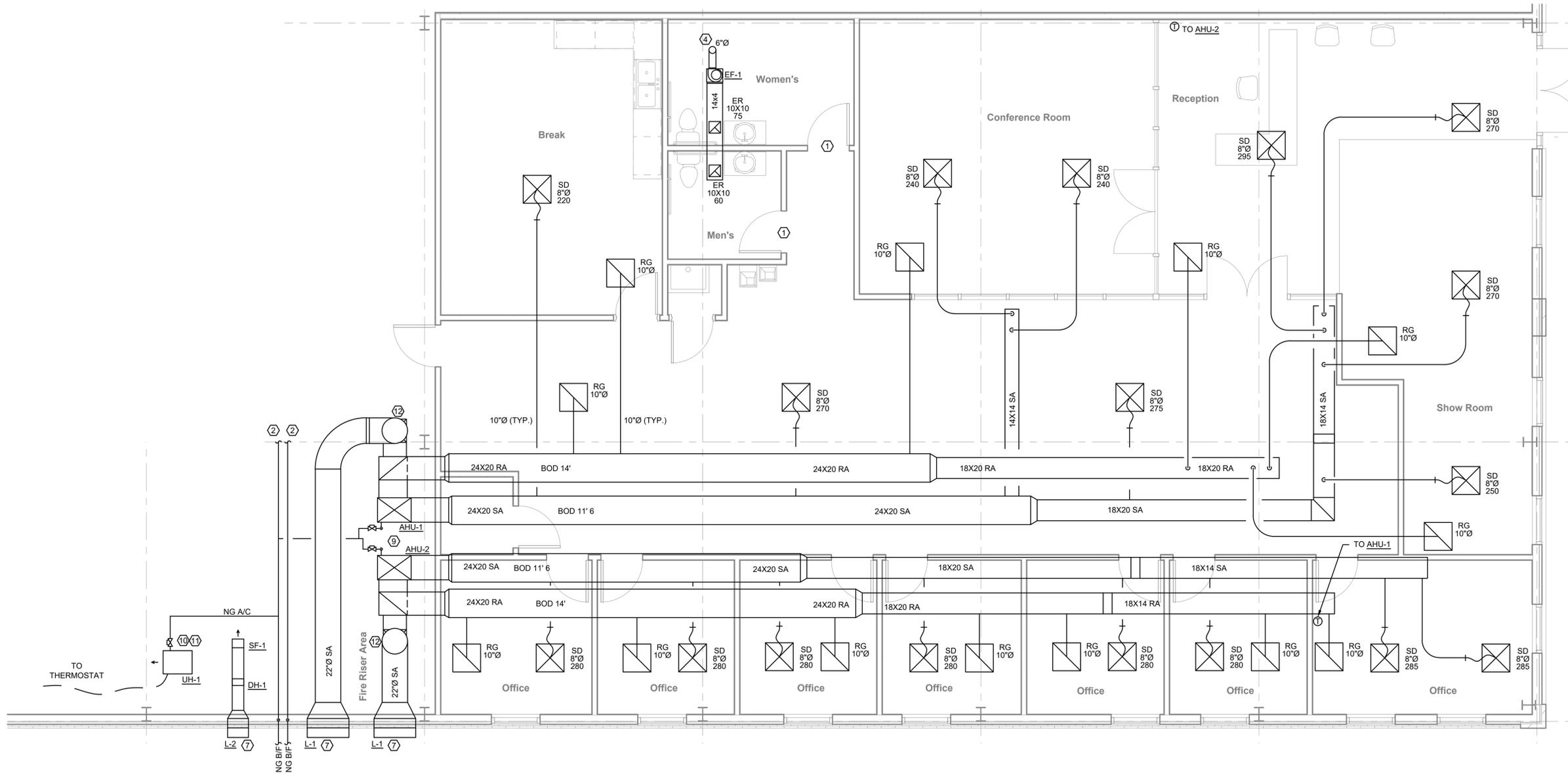
SHEET TITLE:
Floor Plan
SHEET NUMBER:
M1

GENERAL NOTES	
1.	DUCT TAKE OFFS TO DIFFUSERS ARE 10"Ø AND TRANSITION TO SHOWN DIFFUSER NECK SIZE.
2.	COORDINATE EXACT LOCATION OF THERMOSTATS WITH ARCHITECT.
3.	MANUFACTURER EQUIPMENT NAMEPLATES SHALL NOT BE COVERED OR PAINTED OVER. NAMEPLATE SHALL REMAIN VISIBLE AND LEGIBLE UPON CLOSE INSPECTION.
4.	MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES.
5.	RECTANGULAR DUCTWORK DIMENSIONS ARE OUTSIDE DIMENSIONS. PROVIDE 1.5" INTERIOR DUCT LINER ON ALL NEW SUPPLY/RETURN RECTANGULAR DUCTWORK.

KEYNOTES	
①	UNDERCUT DOOR AT ¼" OR MAXIMUM CODE ACCEPTABLE DISTANCE.
②	REFER TO M1 FOR CONTINUATION.
③	OUTSIDE AIR DUCT TO BE EXTERNALLY INSULATED WITH R-12.
④	TOILET EXHAUST DUCT UP TO ROOF SIZED AS INDICATED. TERMINATE AT ROOF WITH WEATHERPROOF EXHAUST CAP. GREENHECK MODEL RGC-7, OR EQUAL. ROOF CAP SHALL BE ALL ALUMINUM CONSTRUCTION WITH INTEGRAL BIRDSCREEN.
⑤	OUTSIDE AIR AND RETURN AIR DUCTS DOWN TO AIR HANDLER ECONOMIZER MIXING BOX. REFER TO AIR HANDLER DETAIL. BALANCE MINIMUM OUTSIDE AIR TO VALUE SHOWN IN SCHEDULE ON M0.0.
⑥	PROVIDE TURNING VANES IN RECTANGULAR DUCT ELBOWS OR PROVIDE LONG RADIUS ELBOWS.
⑦	PROVIDE INSULATED PLENUM OFF LOUVER. MATCH LOUVER SIZE. TRANSITION OUTSIDE AIR DUCT TO LOUVER PLENUM.
⑧	NATURAL GAS DOWN TO AIR HANDLING UNIT. REFER TO GAS EQUIPMENT DETAIL. VENT FLUE UP THROUGH ROOF. TERMINATE WITH VENT CAP.
⑨	ROUTE CONDENSATE FROM AIR HANDLERS TO NEAREST FLOOR DRAIN.
⑩	VENT UNIT HEATER UP THROUGH ROOF. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
⑪	PROVIDE REGULATOR AND EXTEND GAS TO UNIT HEATER. REFER TO EQUIPMENT GAS PIPING DETAIL.
⑫	TRANSITION ROUND DUCT TO 16X16 RECTANGULAR DUCT TO MAKE CONNECTION TO MIXING BOX.

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SHEET TITLE:
Enlarged
Plan
SHEET NUMBER:
M2

N
1
ENLARGED PLAN - MECHANICAL
1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	CONNECTION SIZES				MANUFACTURER	MODEL	NOTES
		CW	HW	V	SAN			
WC-1	WATER CLOSET - ADA - 1.28 GPM FLOOR MOUNT FLUSH TANK WITH ELONGATED SEAT.	½"	-	2"	4"	AMERICAN STANDARD AMERICAN STANDARD	215AA.104.020 5350.110.020	1
LV-1	LAVATORY - 20x14x8 - VITREOUS CHINA UNDERMOUNT BASIN WITH FRONT OVERFLOW AND 1.2 GPM, SINGLE HOLE, DECK MOUNTED, SINGLE LEVER FAUCET.	½"	½"	2"	2"	DECOLAV GROHE	1402 34702	1, 2
SK-1	SINK - ADA - EMPLOYEE BREAK - SINGLE BOWL, STAINLESS STEEL SINK WITH GOOSENECK FAUCET AND WRISTBLADE HANDLES.	½"	½"	2"	2"	ELKAY KOHLER	LRAD1918 K-7303	1, 3
MS-1	SINK - UTILITY SERVICE - FLOOR MOUNT SINK WITH SS CURB CAPS AND FAUCET WITH INTEGRAL VACUUM BREAKER.	½"	½"	2"	2"	STERN-WILLIAMS STERN-WILLIAMS	SB-900 T-10-VB	
DF-1	DRINKING FOUNTAIN - ADA - WALL MOUNT, BI-LEVEL STAINLESS STEEL WITH REFRIGERATED 8 GPH.	½"	-	2"	2"	HALSEY TAYLOR	HAC8BLSS	1
FD	FLOOR DRAIN - SQUARE TOP WITH ADJUSTABLE STRAINER HEAD	-	-	2"	3"	JAY R SMITH	2005	
FCO	FLOOR CLEAN OUT - DUCO CAST IRON WITH ROUND ADJUSTABLE SCORIATED NICKEL BRONZE TOP. CLEAN OUT SHALL MATCH THE SIZE OF THE PIPING SERVED UP TO 4". PIPING LARGER THAN 4" SHALL BE SERVED BY A 4" CLEAN OUT.	-	-	-	-	JAY R SMITH	4120	
FS	FLOOR SINK - 12" SQUARE TOP WITH ACID RESISTANT COATED RECEPTOR AND SEDIMENT BUCKET. PROVIDE WITH TRAP PRIMER.	-	-	2"	3"	JAY R SMITH	3141	
IB	ICEMAKER OUTLET METAL BOX WITH 1/4 TURN SHUTOFF VALVE.	½"	-	-	-	OATEY	38689	
WB	WASHING MACHINE OUTLET BOX WITH SHUTOFF VALVES AND WATER HAMMER ARRESTORS.	½"	½"	-	2"	OATEY	QUADTRO	
NFHB	NON-FREEZE HOSE BIBB - ANTI-SIPHON WITH INTEGRAL VACUUM BREAKER.	¾"	-	-	-	JAY R SMITH	5609QT	
RPZ-1	BACKFLOW PREVENTER	1"	-	-	-	FEBCO	LF860U	
RPZ-2	BACKFLOW PREVENTER - FIRE PROTECTION	6"	-	-	-	FEBCO	LF880V-OSY	

NOTES:
GENERAL: LOCATE WATER CLOSET HANDLE ON ACCESSIBLE SIDE OF WATER CLOSET. ALL FIXTURE FINISHES TO BE CHROME.
1. INSTALL IN ACCORDANCE WITH ADA STANDARDS.
2. PROVIDE WITH POP-UP DRAIN AND TRUEBRO LAV GUARD.
3. PROVIDE WITH STAINLESS STEEL BASKET STRAINER AND TRUEBRO LAV GUARD.

ELECTRIC WATER HEATER SCHEDULE

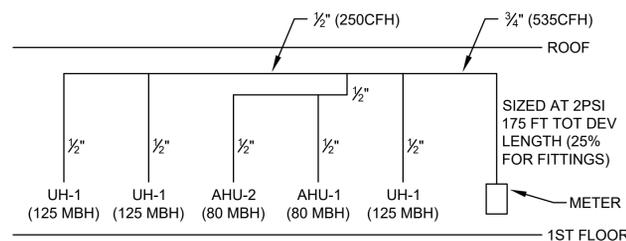
UNIT TAG	TYPE	SERVICE	STORAGE (GALS)	INPUT (KW)	ENERGY FACTOR	MIN GPM	MAX GPM	REC@100°F (GPM)	WEIGHT (LBS)	MFR	MODEL	NOTES
WH-1	TANK	OFFICE	30	8	100	0.5	-	32	350	AO SMITH	DEL30	1, 2

NOTES:
1. HOT WATER SUPPLY TEMPERATURE SHALL BE SET TO MAINTAIN 120°F.
2. WATER HEATER SHALL BE RATED FOR COMMERCIAL USE WITH A 5 YEAR WARRANTY ON ALL PARTS.

PUMP SCHEDULE

UNIT TAG	SERVICE	FLOW (GPM)	HEAD (FT H2O)	NPSH (FT)	RPM	EFF (%)	HP	VOLT/PH	WT (LBS)	MFR	MODEL	NOTES
RP-1	RECIRCULATING	5	12		2950	-	95W	120 / 1	15	BELL & GOSSETT	NBF-22	1

NOTES:
1. PUMP SHALL BE 100% LEAD FREE. PROVIDE WITH MANUFACTURER'S AQUASTAT AND TIMER.



PROVIDE GAS REGULATOR, DIRT LEG, AND GAS COCK AT EACH GAS-FIRED APPLIANCE AND ADJUST PRESSURE TO MATCH EQUIPMENT MANUFACTURER'S RECOMMENDED PRESSURE. TRANSITION GAS PIPING TO EQUIPMENT CONNECTION SIZE.

PIPE SIZED IN ACCORDANCE WITH THE 2015 IPC TABLE 402.4(5).

2

OFFICE NATURAL GAS RISER DIAGRAM

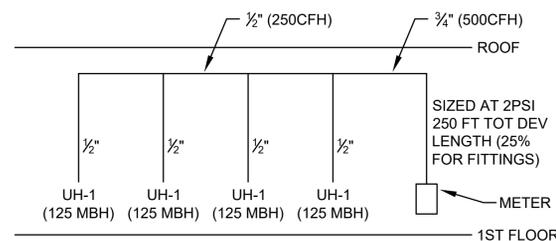
NTS

ABBREVIATIONS

A/C ABOVE CEILING	LB POUND
AFF ABOVE FINISHED FLOOR	LWT LEAVING WATER TEMPERATURE
B/F BELOW FLOOR	MAX MAXIMUM
B/G BELOW GRADE	MFR MANUFACTURER
BFP BACKFLOW PREVENTER	MIN MINIMUM
CO CLEANOUT	NFW NON FREEZE WALL HYDRANT
CW COLD WATER	PRV PRESSURE REDUCING VALVE
DWG DRAWING	PSI POUNDS PER SQUARE INCH
EA EACH	WCO WALL CLEANOUT
EWT ENTERING WATER TEMPERATURE	SAN SANITARY
FCO FLOOR CLEANOUT	ST STORM
GPM GALLONS PER MINUTE	TOT TOTAL
HD HUB DRAIN	TYO TYPICAL
HW HOT WATER	UNO UNLESS NOTED OTHERWISE
HWR HOT WATER RETURN	V VENT
HZ HERTZ	VTR VENT THRU ROOF
IN INCHES	W WASTE
KW KILOWATT	WC WATER CLOSET
LAT LEAVING AIR TEMPERATURE	WT WEIGHT

PLUMBING LEGEND

-----	DOMESTIC WATER
-----	HOT WATER
-----	HOT WATER RETURN
-----	WASTE / SANITARY
-----	VENT
-----	STORM
-----	EXISTING
⊙	FLOOR CLEANOUT
⊥	WALL CLEANOUT
⊥	GATE VALVE
●	BALL VALVE
∨	CHECK VALVE
⊥	BALANCING VALVE
⊥	STRAINER
⊥	PIPE DOWN
⊥	PIPE UP



PROVIDE GAS REGULATOR, DIRT LEG, AND GAS COCK AT EACH GAS-FIRED APPLIANCE AND ADJUST PRESSURE TO MATCH EQUIPMENT MANUFACTURER'S RECOMMENDED PRESSURE. TRANSITION GAS PIPING TO EQUIPMENT CONNECTION SIZE.

PIPE SIZED IN ACCORDANCE WITH THE 2015 IPC TABLE 402.4(5).

1

WAREHOUSE NATURAL GAS RISER DIAGRAM

NTS

PLUMBING GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES. INTERPRETATION OF THE CODE IS SUBJECT TO THE AUTHORITY OF THE PREVAILING JURISDICTION.
- THESE DRAWINGS ARE DIAGRAMATIC IN NATURE AND GENERALLY SHOW THE LOCATIONS AND ARRANGEMENTS OF EQUIPMENT AND SYSTEMS. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND ELEVATIONS OF ALL EQUIPMENT AND SYSTEMS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PURCHASE OR INSTALLATION OF ANY EQUIPMENT OR SYSTEMS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY FIELD OBSERVATIONS THAT MAY REQUIRE SIGNIFICANT DEVIATIONS IN THE CONSTRUCTION DOCUMENTS.
- SUBMITTAL AND SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING.
- ALL PENETRATIONS OF RATED WALLS, PARTITIONS, AND FLOORS SHALL BE PROTECTED SO AS TO MAINTAIN THE RATING. SLEEVES, AND RATED SEALANT AS REQUIRED BY CODE.
- THE CONTRACTOR SHALL VERIFY ELECTRICAL REQUIREMENTS WITH ALL TRADES FOR ALL EQUIPMENT PRIOR TO ORDERING.
- HOT AND COLD DOMESTIC WATER PIPING INSTALLED BELOW GROUND SHALL BE TYPE K COPPER WITH SOLDERED JOINTS AND IN COMPLIANCE WITH NSF/ANSI 61.
- HOT AND COLD DOMESTIC WATER PIPING INSTALLED ABOVE GROUND SHALL BE PEX AND IN COMPLIANCE WITH ASTM 877.
- SANITARY, WASTE, AND VENT PIPING INSTALLED BELOW GROUND SHALL BE PVC (ASTM D 2665). CEMENTED OR THREADED JOINTS (ASTM F 656 OR ASME B1.20.1).
- SANITARY, WASTE, AND VENT PIPING INSTALLED ABOVE GROUND SHALL BE PVC (ASTM D 2665). CEMENTED OR THREADED JOINTS (ASTM F 656 OR ASME B1.20.1).
- ALL GRAVITY DRAINED WASTE PIPING SHALL BE SLOPED AT 1/8" INCH PER FOOT PER IPC UNLESS NOTED OTHERWISE. ALL PIPING SLOPES AND INVERTS SHALL BE COORDINATED PRIOR TO INSTALLATION.
- PROVIDE CLEANOUT AT THE BASE OF EACH VERTICAL SANITARY AND STORM RISER PER CODE.
- NATURAL GAS PIPING SHALL BE SCHEDULE 40, BLACK STEEL (ASTM A 53/A 53M) WITH THREADED FITTINGS.
- ALL CONDENSATE DRAIN LINES SHALL BE PVC AND TRAPPED AS REQUIRED. PROVIDE CONDENSATE PUMPS WHERE INDICATED ON THE SCHEDULE.
- PROVIDE WATER HAMMER ARRESTORS WHERE QUICK CLOSING VALVES ARE UTILIZED. WHERE SERVING A BRANCH WITH MULTIPLE FIXTURES, LOCATE THE ARRESTOR BETWEEN THE LAST TWO FIXTURES. FOR LONG BRANCH LINES, LOCATE AN ARRESTOR AT A MINIMUM OF EVERY 20 FEET.
- ALL HOT AND COLD DOMESTIC WATER PIPING SHALL BE INSULATED. INSULATION SHALL BE PREFORMED FIBERGLASS WITH A MINIMUM THERMAL CONDUCTIVITY K-VALUE OF 0.27 AT 75°F. PROVIDE WITH FACTORY APPLIED VAPOR BARRIER JACKET. INSULATION THICKNESS SHALL BE A MINIMUM OF 1 INCH. ALL JOINTS AND SEAMS SHALL BE SEALED TO MAINTAIN THE CONTINUITY OF THE VAPOR BARRIER JACKET PIPE INSULATION WITH FACTORY-APPLIED ASJ.
- ALL HOT AND COLD WATER DOMESTIC WATER PIPING EXPOSED TO FREEZING CONDITIONS SHALL BE PROTECTED FROM FREEZING BY HEAT TRACING.
- PROVIDE DIELECTRIC FITTINGS AT ALL CONNECTIONS BETWEEN DISSIMILAR METALS.
- PROVIDE ISOLATION VALVES ON ALL HOT AND COLD WATER BRANCH PIPING WHERE THEY CONNECT TO THE MAINS. BALL VALVES OR BUTTERFLY VALVES SHALL BE USED FOR ISOLATION OR SERVICE SHUT-OFF PURPOSES.
- ALL FLOOR DRAINS SHALL BE INSTALLED WITH A TRAP GUARD.
- MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES FOR EQUIPMENT INSTALLATION AND MAINTENANCE.
- PROVIDE VIBRATION ISOLATORS ON ALL EQUIPMENT WITH MOVING PARTS.
- WHERE POSSIBLE ALL EQUIPMENT AND VALVES SHALL BE LOCATED ABOUT ACCESSIBLE CEILINGS. PROVIDE ACCESS PANELS FOR ANY EQUIPMENT OR VALVES LOCATED ABOVE AN INACCESSIBLE CEILING. ACCESS PANEL SHALL ALLOW FOR REMOVAL AND MAINTENANCE OF EQUIPMENT.
- PROVIDE EQUIPMENT PAD FOR ANY EQUIPMENT MOUNTED ON FLOOR OR GRADE. EQUIPMENT PAD SHALL BE 6" THICK CONCRETE THAT EXTENDS 6" BEYOND THE FOOTPRINT OF THE EQUIPMENT IN EACH DIRECTION.
- FIRE SPRINKLER SYSTEM TO BE DESIGNED AND INSTALLED BY FIRE SPRINKLER CONTRACTOR LICENSED BY THE STATE OF COLORADO. SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH NFPA13 AND ALL LOCAL REGULATIONS.
- SPRINKLER HEADS LOCATED IN LAY-IN CEILINGS SHALL BE SEMI-RECESSED CHROME PLATED. SPRINKLER HEADS LOCATED IN HARD CEILINGS SHALL BE FULLY RECESSED WITH COVER MATCHING THE CEILING. AREAS WITH NO CEILINGS SHALL HAVE UPRIGHT, BRASS HEADS.
- ALL PENETRATIONS OF DUCTWORK, PIPING CONDUITS, AND VENTS THROUGH FIRE-RATED AND SMOKE-RATED BARRIERS SHALL HAVE FIRESTOP AND/OR SMOKE STOP PROTECTION IN ACCORDANCE WITH THE MINIMUM BUILDING CODE.

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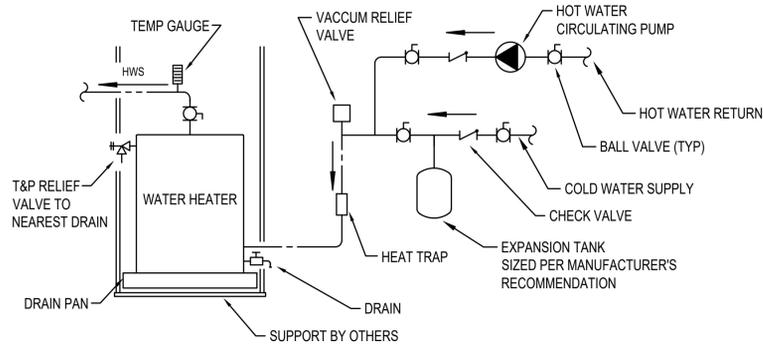
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Schedules

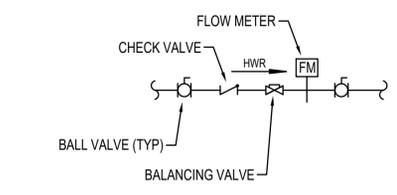
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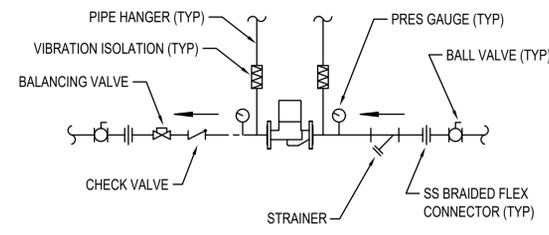
NOTES: TEMPERATURE AND PRESSURE RELIEF VALVE SETTING SHALL NOT EXCEED PRESSURE RATING OF ANY COMPONENT IN THE SYSTEM. SUPPORT FROM STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL CODE AUTHORITY'S REQUIREMENTS.

7 WATER HEATER DETAIL
NTS

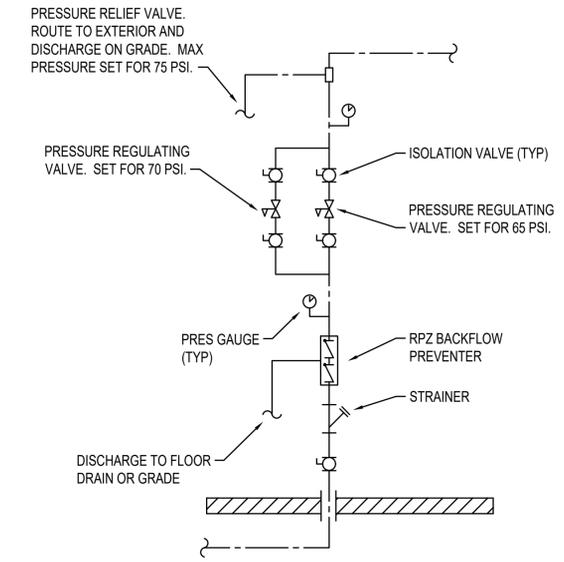


SEE PLANS FOR HWR SIZE. ALL VALVES AND PIPING SHALL MATCH HWR SIZE.

4 HWR ASSEMBLY DETAIL
NTS

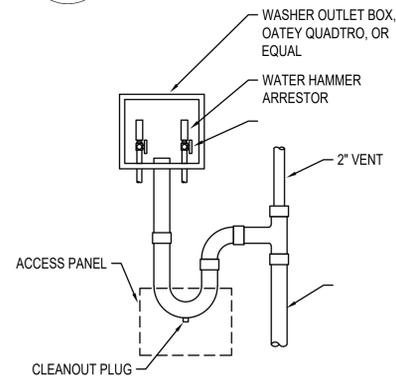


3 INLINE CIRCULATING PUMP
NTS



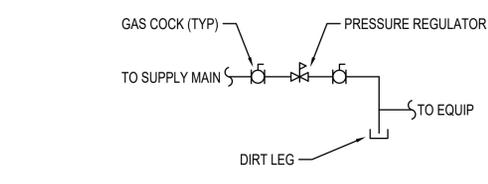
NOTES: HORIZONTAL INSTALLATION SHALL BE SIMILAR TO VERTICAL INSTALLATION.

1 WATER SERVICE ENTRANCE DETAIL
NTS



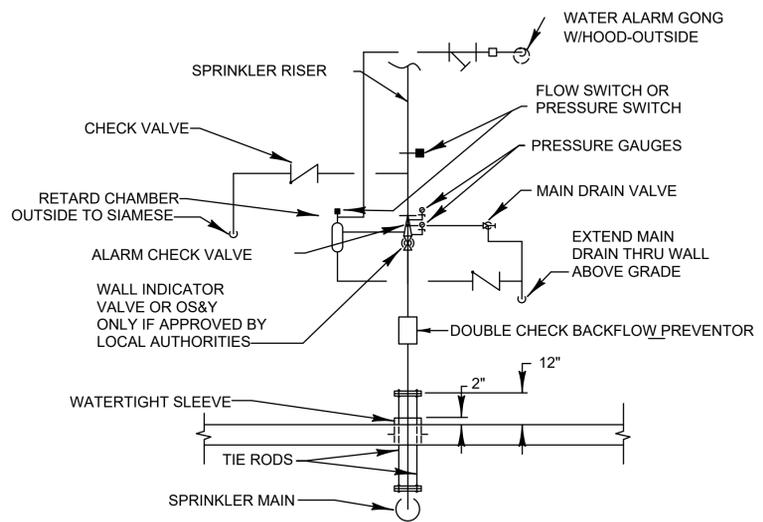
COORDINATE FINAL LOCATION AND CONNECTION SIZES WITH ACTUAL EQUIPMENT PROVIDED.

6 WASHER BOX DETAIL
NTS

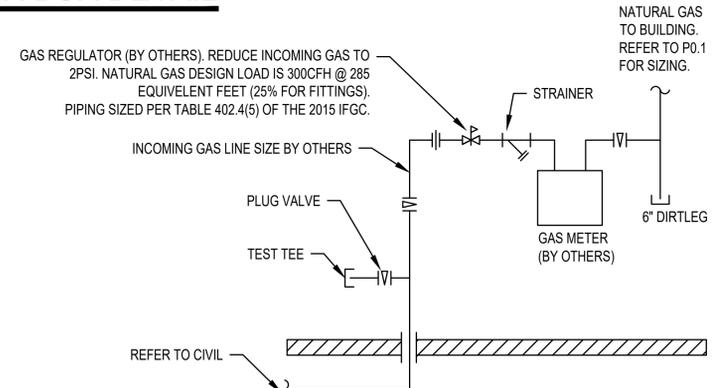


TRANSITION GAS PIPING TO UNIT CONNECTION SIZE. REDUCE PRESSURE TO MATCH EQUIPMENT MANUFACTURER'S REQUIREMENTS.

5 EQUIPMENT GAS PIPING DETAIL
NTS

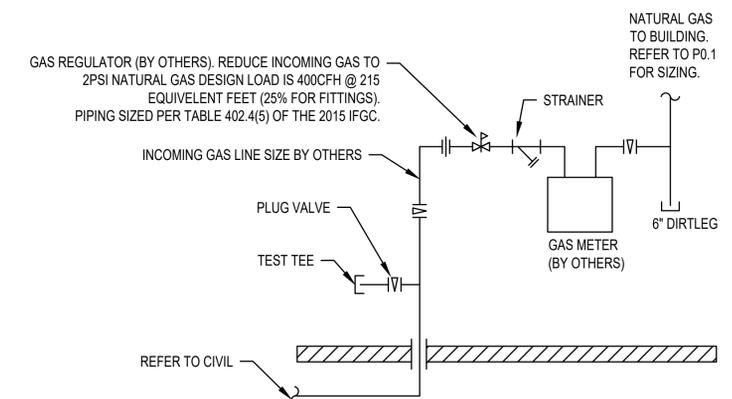


9 WET PIPE SPRINKLER RISER DETAIL
NONE



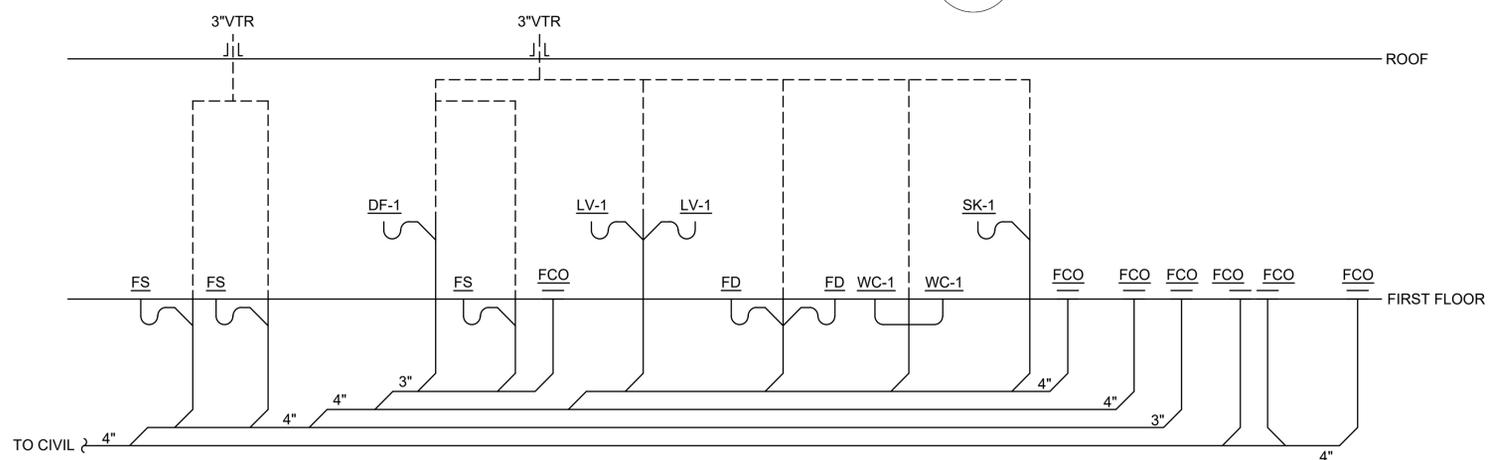
NOTES: COORDINATE GAS INSTALLATION WITH GAS UTILITY.

8 NORTH TENANT GAS SERVICE ENTRANCE DETAIL
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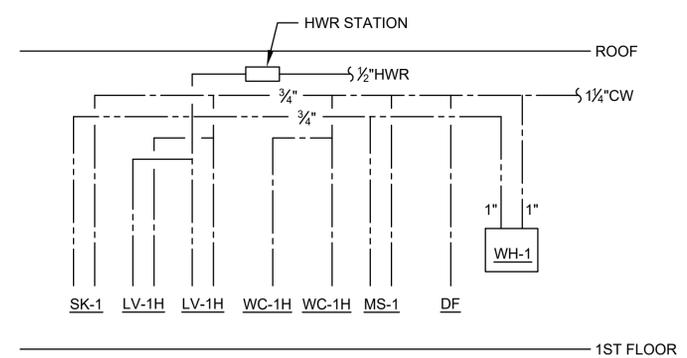


NOTES: COORDINATE GAS INSTALLATION WITH GAS UTILITY.

2 OFFICE GAS SERVICE ENTRANCE DETAIL
NTS



11 WASTE / VENT RISER DIAGRAM
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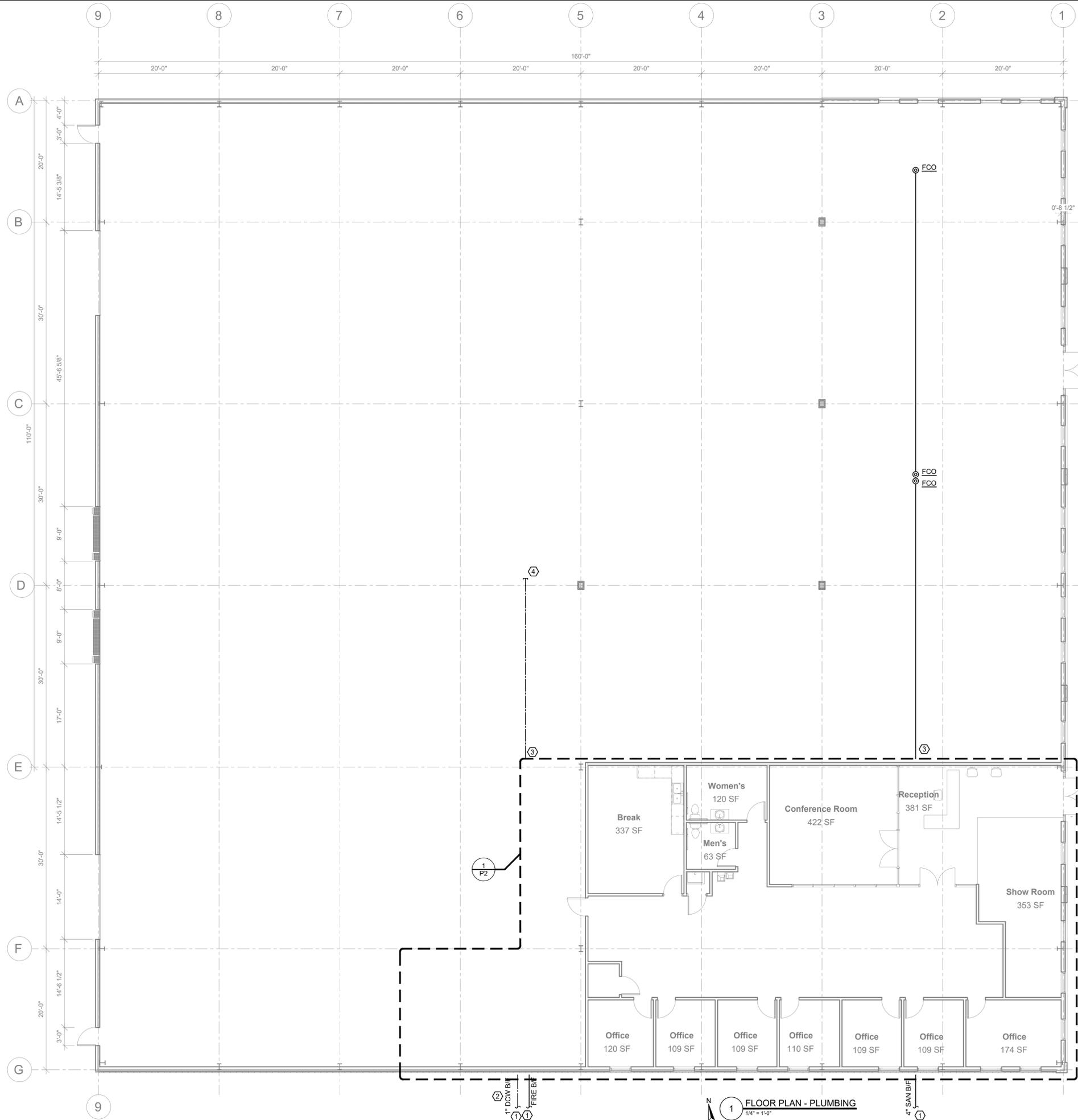


10 H&CW RISER DIAGRAM
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GENERAL NOTES	
1.	SEE RISER DIAGRAMS FOR PIPING SIZES.
2.	SEE SHEET P0.1 FOR ADDITIONAL GENERAL NOTES.

KEYNOTES	
①	REFER TO CIVIL FOR CONTINUATION.
②	REPLACE EXISTING DCW SERVICE WITH NEW 1" DCW AND METER.
③	REFER TO P2 FOR CONTINUATION.
④	CAP 1 1/4" DCW WITH ISOLATION VALVE FOR FUTURE TENANT.

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Floor Plan
 SHEET NUMBER:
 P1

1 FLOOR PLAN - PLUMBING
 1/4" = 1'-0"

ELECTRICAL SPECIFICATION

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FEDERAL/STATE/LOCAL CODES, INTERNATIONAL BUILDING CODE, NFPA CODES, NEC AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. FURNISH AND INSTALL ALL REQUIRED JUNCTION BOXES, PULL BOXES, SURFACE/RECESSED DEVICE BOXES, FITTINGS, CONDUIT BODIES, SUPPORTS, ACCESS DOORS, HARDWARE, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE AND WORKING ELECTRICAL SYSTEM, WHETHER OR NOT SUCH EQUIPMENT IS INDICATED ON THE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER CONTRACTORS AND ALL OTHER TRADES BEFORE INSTALLATION OF HIS WORK IN CHASES, CEILING SPACES AND OTHER AREAS WHERE CONFLICT MAY OCCUR.
- ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, AND SHALL PAY ALL FEES RELATIVE TO THE INSTALLATION OF HIS WORK.
- "PROVIDE" MEANS FURNISH AND INSTALL.
- PROVIDE ALL EQUIPMENT, COMPONENTS AND DEVICES SHOWN ON THE POWER RISER DIAGRAMS, POWER ONE-LINE DIAGRAMS, BLOCK DIAGRAMS, AND SPECIAL SYSTEMS (INCLUDING, BUT NOT LIMITED TO: FIRE ALARM, SECURITY, TELEPHONE, DATA, CATV) RISER OR BLOCK DIAGRAMS WHETHER OR NOT SUCH EQUIPMENT, COMPONENTS AND DEVICES ARE INDICATED ON THE FLOOR PLANS.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING AND CONDUIT TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. BEFORE "ROUGH-IN" OF OUTLETS, THE LOCATION AND TYPE OF CONNECTIONS/OUTLET SHALL BE VERIFIED FROM SHOP DRAWINGS OF THE EQUIPMENT.
- WHERE JUNCTION BOXES OR ELECTRICAL EQUIPMENT ARE REQUIRED TO BE INSTALLED ABOVE NON-ACCESSIBLE CEILINGS OR CONCEALED INSIDE WALLS, THE CONTRACTOR SHALL FURNISH AND INSTALL ACCESS DOORS TO MAKE THE JUNCTION BOXES OR ELECTRICAL EQUIPMENT ACCESSIBLE.
- ALL ELECTRICAL EQUIPMENT SHALL BE UNDERWRITER'S LABORATORY (U.L.) LISTED AND LABELED. ALL EQUIPMENT SHALL BE NEW U.O.N.
- EXACT LOCATION OF ALL EQUIPMENT AND ACCESSORIES SHALL BE VERIFIED IN THE FIELD AND COORDINATED WITH OTHER TRADES. ADJUST LOCATIONS TO SUIT FIELD CONDITIONS. COMPLY WITH CLEARANCES AS REQUIRED BY THE NEC, THE MANUFACTURER, AND APPLICABLE CODES.
- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
- PROVIDE MAINTENANCE RECEPTACLE WITHIN 25'-0" OF ALL MECHANICAL OR MOTORIZED EQUIPMENT.
- ELECTRICAL WIRING, CONDUIT AND CIRCUIT BREAKERS FOR ELECTRICAL EQUIPMENT, MECHANICAL EQUIPMENT, ARCHITECTURAL EQUIPMENT, AND OTHER EQUIPMENT ARE BASED ON EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS. ANY CHANGES IN THE EQUIPMENT SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR PROVIDES EQUIPMENT OTHER THAN WHAT IS SPECIFIED IN THE CONTRACT DOCUMENTS, AND CHANGES ARE REQUIRED IN THE WIRING, CONDUIT AND CIRCUIT BREAKERS, THEN HE SHALL PROVIDE THE REQUIRED WIRING, CONDUIT AND CIRCUIT BREAKERS AT NO ADDITIONAL COST.
- UNLESS OTHERWISE NOTED AS "EXISTING" OR "BY OTHERS" OR "NIC", ALL WORK, DEVICES AND EQUIPMENT ARE NEW AND SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- PROVIDE DEDICATED NEUTRAL WIRES FOR ALL BRANCH CIRCUITS.
- RACEWAYS EMBEDDED IN CONCRETE OR MASONRY WALLS SHALL BE IN IMC: IN HOLLOW NON MASONRY WALLS AND ABOVE CEILINGS SHALL BE EMT, RACEWAY EXPOSED TO SEVERE PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED AND RACEWAYS BETWEEN VIBRATING EQUIPMENT SHALL BE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT. CONDUITS IN CONTACT WITH BARE EARTH SHALL BE SCHEDULE 80 PVC.
- ALL RACEWAY SHALL BE CONCEALED WHEREVER POSSIBLE.
- CABLES AND RACEWAY SHALL RUN PARALLEL OR PERPENDICULAR TO WALL AND CEILING STRUCTURES (COLUMNS, JOISTS, SUPPORT BEAMS, ETC.) FOR A NEAT APPEARANCE.
- PROVIDE HACR TYPE BREAKERS FOR HEATING, AIR CONDITIONING AND REFRIGERATION EQUIPMENT WHERE RECOMMENDED BY THE MANUFACTURER.
- 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 OWNER PRIOR TO ROUGH-IN. WHERE NEW OUTLETS AND DEVICES ARE INSTALLED, MAINTAIN ADA MOUNTING HEIGHTS AND REQUIREMENTS UNLESS SPECIFICALLY DIRECTED OTHERWISE.
- PANELBOARDS AND SAFETY SWITCHES SHALL BE OF ONE MANUFACTURER AND SHALL BE COMPLETE WITH PROTECTIVE DEVICES, ENCLOSURES, BUSES, GROUNDS, ISOLATED GROUND BUS, AND NEUTRAL BARS AS REQUIRED.
- PROVIDE FIRESTOPPING AROUND PENETRATIONS OF FLOORS AND FIRE RATED WALLS. MAINTAIN THE FIRE RESISTANCE RATING OF THE FLOORS AND WALLS. INSTALL UL LISTED FIRESTOPPING MATERIAL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND UL'S REQUIREMENTS.
- PROVIDE POWER TO FIRE/SMOKE DETECTORS AND DAMPERS AS REQUIRED. VERIFY LOCATIONS WITH MECHANICAL DRAWINGS.
- SOME MECHANICAL EQUIPMENT ARE PROVIDED BY THE MECHANICAL CONTRACTOR BUT INSTALLED, WIRED, AND CONNECTED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR.
- 600V POWER WIRING SHALL BE THHN/THWN-2, COPPER CONDUCTOR U.O.N.
- PROVIDE UNSWITCHED "HOT" WIRE TO LOCAL LIGHTING CIRCUIT TO FEED EMERGENCY LIGHTING UNITS, EXIT LIGHTING FIXTURES, NIGHT LIGHTING FIXTURES, LIGHTING FIXTURES WITH BATTERY BACKUP, OCCUPANCY SENSORS, AND VACANCY SENSORS.
- PROVIDE ENGRAVED NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, PANELS, STARTERS, DISCONNECTS, BREAKERS, MCCs, SWITCHBOARDS, SWITCHGEAR, AND TRANSFORMERS.
- JUNCTION BOXES AND CONDUIT BODIES SHOWN ON THE DRAWING ARE MINIMUM QUANTITY ONLY. PROVIDE ADDITIONAL JUNCTION BOXES AND CONDUIT BODIES AS REQUIRED BY THE NEC OR AS RECOMMENDED BY THE WIRE OR CABLE MANUFACTURER. DO NOT EXCEED THE MAXIMUM PULLING TENSIONS OF THE WIRE OR CABLE.
- PROVIDE GROUNDING AND BONDING OF ALL METALLIC RACEWAY, BOXES, TROUGH, WIREWAYS, DEVICES AND EQUIPMENT IN ACCORDANCE WITH THE NEC.
- INSTALL ALL DEVICES AND EQUIPMENT ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND UL'S REQUIREMENTS.
- PROVIDE LIGHTING FIXTURES AND LAMPS AS SPECIFIED AND AT LOCATIONS SHOWN ON DRAWINGS. PROVIDE ALL ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM. SUBMIT ANY SUBSTITUTIONS TO OWNER FOR APPROVAL.
- AT ALL JUNCTION BOXES FOR INSTALLATION OF COMMUNICATION OR DATA OUTLETS, MOUNT 18" AFF, UNLESS OTHERWISE NOTED. INSTALL 1" CONDUIT FROM BOX TO 3" INTO ACCESSIBLE LOCATION ABOVE FINISHED CEILING. IN AREAS WITH NO FINISHED CEILING, PROVIDE 1" FROM J-BOX TO TTB.
- MANUAL FIRE ALARM/SPRINKLER SYSTEM TO BE PROVIDED BY OTHERS.

KEY NOTES

- PROPOSED UTILITY TRANSFORMER. 75 KVA ASSUMED FOR SC CALCS. SEE SITE PLAN FOR LOCATION.

ELECTRICAL LEGEND

x" x"	MOUNTING HEIGHT	MDP	MAIN DISTRIBUTION PANELBOARD	⚡	SWITCH	⚡	BATHROOM FAN/LIGHT COMBO
A / AMP	AMPERE	MH	MANHOLE	⚡	3-WAY SWITCH	⚡	LED RECESSED FIXTURE
AC	ABOVE COUNTER	MW	MICROWAVE	⚡	DIMMER	⚡	LED STRIP FIXTURE
AF	ABOVE FINISHED FLOOR	OVN	OVEN	⚡	THERMAL OVERLOAD SWITCH	⚡	LED SURFACE FIXTURE
AG	ABOVE COUNTER GFI DEVICE	N	NEUTRAL	⚡	3 PUSH BUTTON	⚡	POLE MOUNTED FIXTURE
AHU	AIR HANDLING UNIT	NL	NIGHT LIGHTING	⚡	SINGLE PUSH BUTTON	⚡	TRACK MOUNTED FIXTURE
AIC	FAULT CURRENT CAPACITY	PH	PHASE	⚡	PHOTO ELECTRIC CELL SWITCH	⚡	BATTERY BALLASTED FIXTURE
AL	ALUMINUM	REF	REFRIGERATOR	⚡	WALL-MOUNTED SWITCH, OCC SENSOR	⚡	BATTERY BALLASTED FIXTURE
C	CONDUIT	RNG	RANGE	⚡	ULTRASONIC CEILING MTD OCCUPANCY SENSOR	⚡	EMERGENCY FIXTURE
CU	COPPER	RTU	ROOF TOP UNIT	⚡	DUPLEX RECEPTACLE	⚡	EXIT FIXTURE
CKT	CIRCUIT	UG	UNDERGROUND	⚡	GFCI DUPLEX RECEPTACLE	⚡	JUNCTION BOX
CT	CURRENT TRANSFORMER	V	VOLT	⚡	QUADRUPLX RECEPTACLE	⚡	MOTOR STARTER OR CONTACTOR
DYR	DRYER	VA	VOLT-AMPERE	⚡	FLOOR MOUNTED RECEPTACLE	⚡	MOTOR
DW	DISHWASHER	VFD	VARIABLE FREQUENCY DRIVE	⚡	SWITCHED OUTLET, ONE RECEPTACLE OF DUPLEX	⚡	ASTRONOMICAL TIME CLOCK W/ BATTERY
(E)	EXISTING	W	WALL	⚡	CEILING MOUNTED RECEPTACLE	⚡	MOTORIZED DAMPER
EF	EXHAUST FAN	WG	WEATHERPROOF GFI	⚡	SPECIAL PURPOSE RECEPTACLE	⚡	DISCONNECT
EM	EMERGENCY	WP	WEATHERPROOF	⚡	WALL MOUNTED TELEPHONE OUTLET	⚡	FUSED DISCONNECT
EWC	WATER COOLER	WRM	WARMING DRAWER	⚡	TELEPHONE OUTLET	⚡	UTILITY METER
EXP	EXPLOSION PROOF	WSH	WASHER	⚡	TELEPHONE/DATA OUTLET	⚡	TRANSFORMER
G	GROUND			⚡	CABLE TV OUTLET	⚡	CIRCUIT BREAKER
GD	GARBAGE DISPOSER			⚡	RECESSED CEILING FIXTURE	⚡	FIRE SMOKE DAMPER
GFI	GROUND FAULT INTERRUPTER			⚡	SURFACE CEILING FIXTURE	⚡	SMOKE DETECTOR
HD	EXHAUST HOOD			⚡	PENDANT LIGHT FIXTURE	⚡	PANELBOARD
HP	HORSEPOWER			⚡	WALL MOUNTED FIXTURE	⚡	

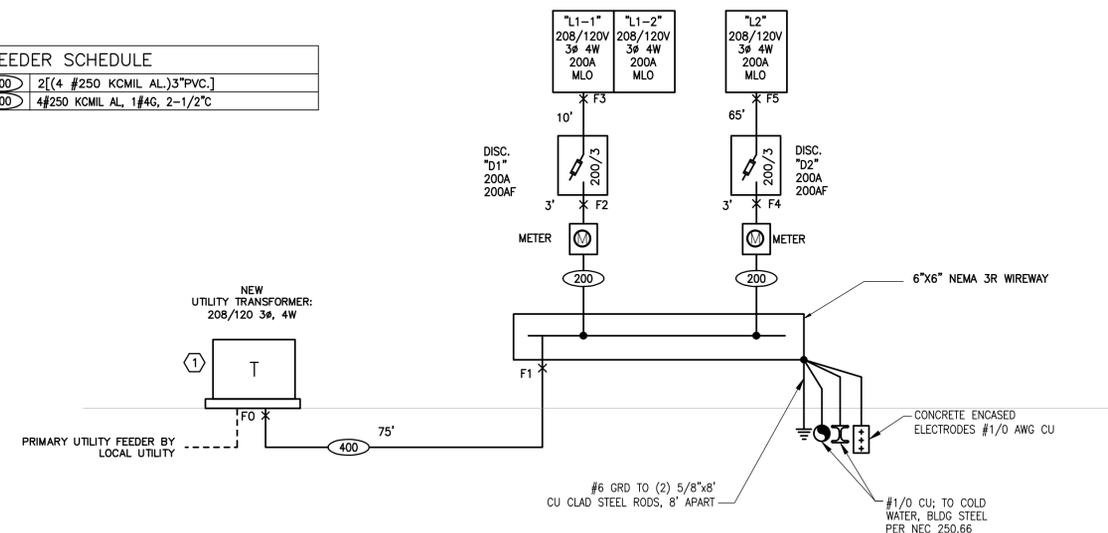
SHORT CIRCUIT CALCULATIONS

FAULT POINT	FAULT LOCATION	FAULT SOURCE POINT	AVAILABLE FAULT CURRENT	CABLE					f	M	Isc	FAULT POINT	
				E (VOLTS)	NO. SETS	WIRE SIZE	C VALUE	LENGTH (FT)					Phase
F0	TRANSFORMER		13,000								13,000	F0	
F1	WIREWAY	F0	13,000	208	2	#250	12122	75	3PH	0.335	0.749	9,739	F1
F2	DISC. "D1"	F1	9,739	208	1	#250	12862	3	3PH	0.019	0.981	9,558	F2
F3	PANEL "L1"	F2	9,558	208	1	#250	12122	10	3PH	0.076	0.930	8,969	F3
F4	DISC. "D2"	F3	8,969	208	1	#250	12122	3	3PH	0.021	0.979	8,806	F4
F5	PANEL "L2"	F1	8,969	208	1	#250	12862	65	3PH	0.436	0.696	6,908	F5

C = CABLE CONDUCTANCE FACTOR
 E = LINE TO LINE VOLTAGE
 Vp = TRANSFORMER PRIMARY LINE TO LINE VOLTAGE
 Vs = TRANSFORMER SECONDARY LINE TO LINE VOLTAGE
 Z = TRANSFORMER IMPEDANCE
 L = LENGTH OF CABLE
 Isc = SHORT CIRCUIT CURRENT
 Isc = Vp x M x Isc/Vs
 M = 1/(1+f)
 f = 1.732 x L x Isc / (C x n x E)

FEEDER SCHEDULE

400	2[(4 #250 KCMIL AL.)3"PVC.]
200	4#250 KCMIL AL, 1#46, 2-1/2"C



1 ONE-LINE DIAGRAM
SCALE: N.T.S.

- NOTES:
- ALL EQUIPMENT SHOWN IS NEW.
 - FIELD MARK SERVICE EQUIPMENT WITH AVAILABLE FAULT CURRENT PER NEC 110.24.

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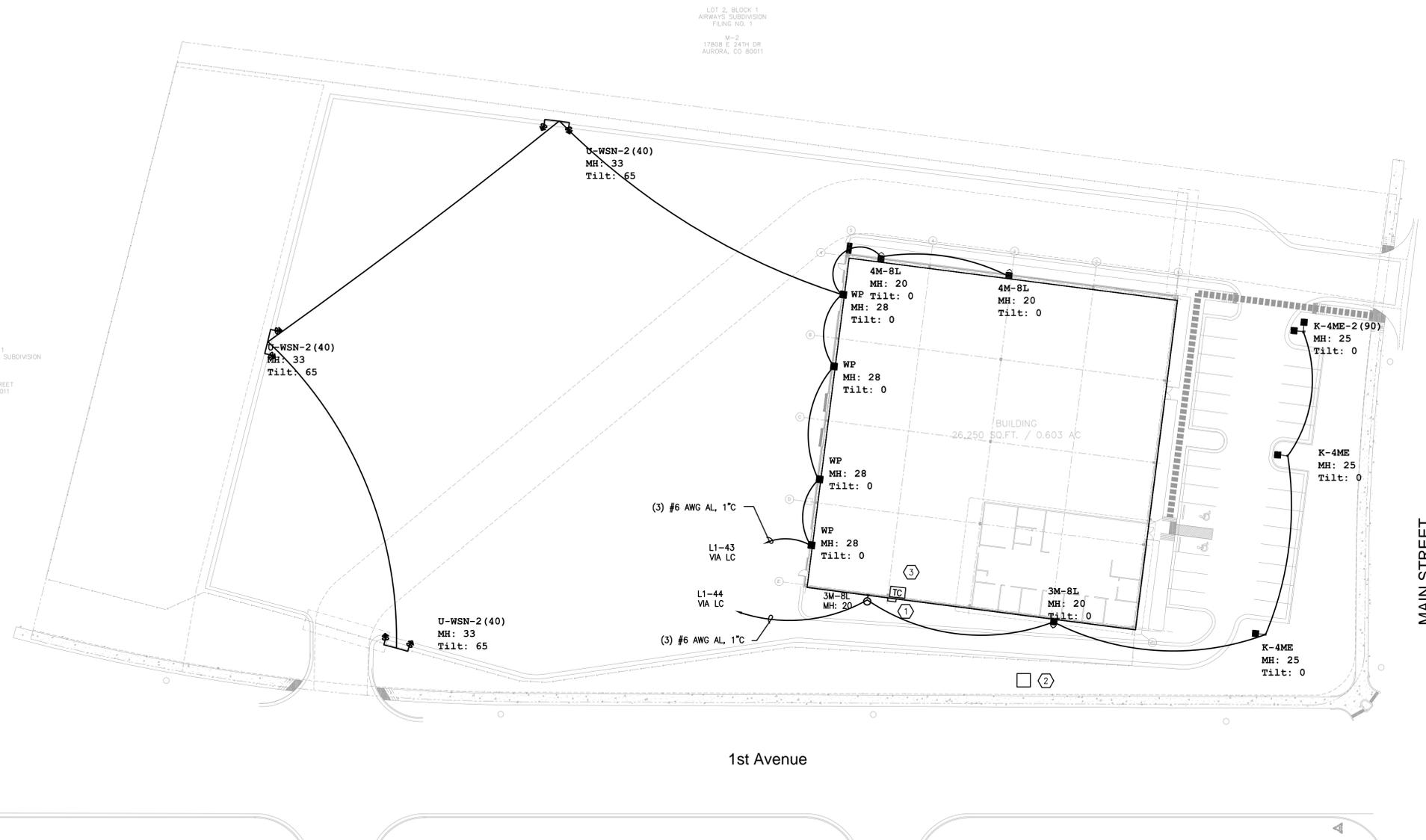
ABC WAREHOUSE
123 MAIN ST.
DENVER, COLORADO 80203

JOB NUMBER:
FILE:
DESIGNED:
DRAWN: AA
CHECKED: JJ
DATE: 01/20/2019
REVISIONS:

SHEET TITLE:
ONE-LINE, SPECS
SHEET NUMBER:
E-001

JOB NUMBER:
FILE:
DESIGNED:
DRAWN: AA
CHECKED: JJ
DATE: 01/20/2019
REVISIONS:

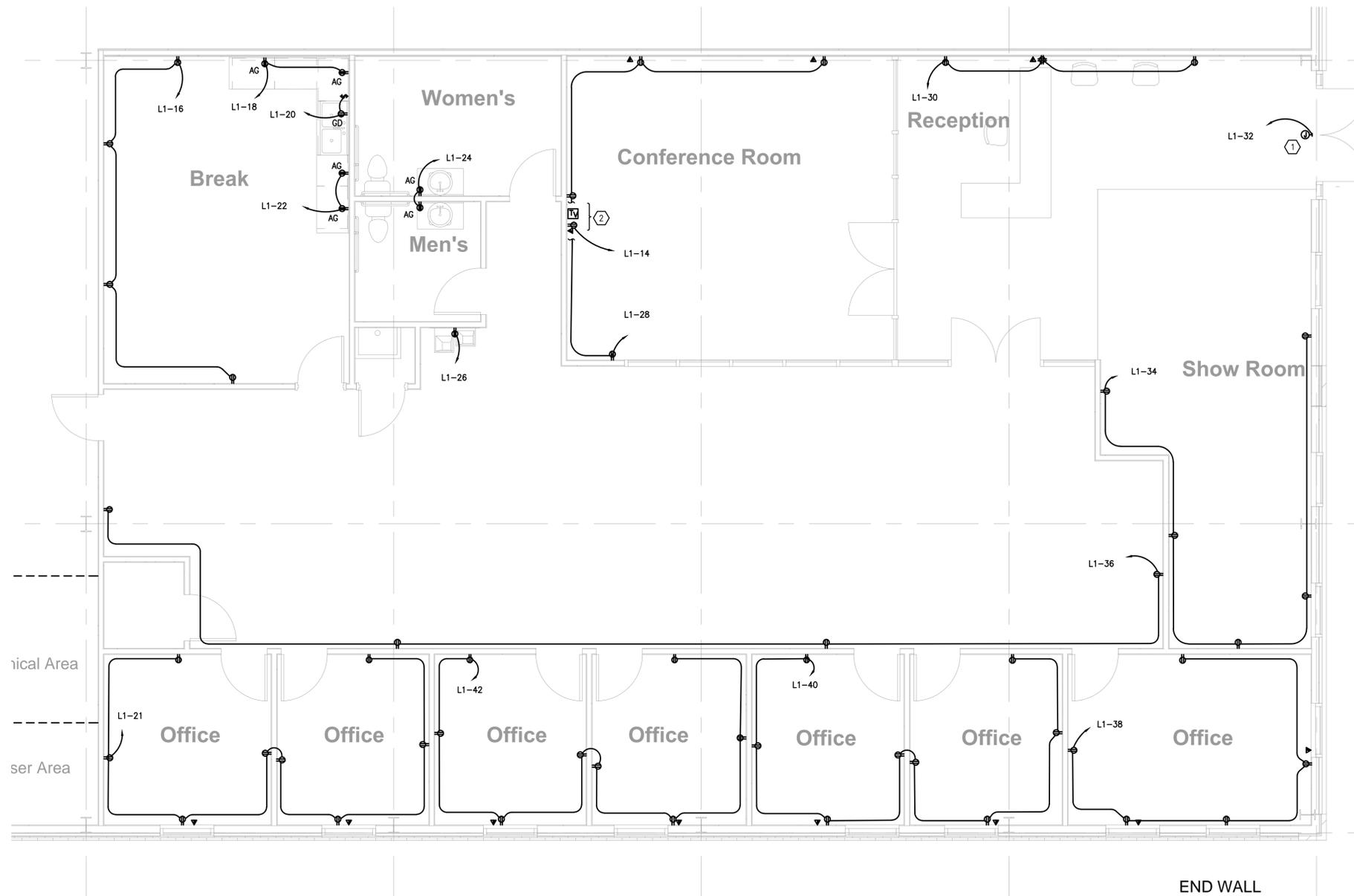
SHEET TITLE:
SITE PLAN
SHEET NUMBER:
E-101



N
1
-
SCALE: 1" = 30'-0"
SITE PLAN

Symbol	Qty	Label	Arrangement	LMF	Lum. Lumens	Lum. Watts	Part Number
[Symbol]	3	4M-8L	SINGLE	0.980	8475	71	XSPW-B-WM-4ME-8L-57K-XX-XX
[Symbol]	2	3M-8L	SINGLE	0.980	8475	71	XSPW-B-WM-3ME-8L-57K-XX-XX
[Symbol]	6	RSW-9L-2M	SINGLE	1.020	N.A.	72	RSWM-A-HT-2ME-9L-50K7-UL-GY-N
[Symbol]	3	U-WSN-2(40)	TWIN @ 40	1.030	26504	215	OSQ-A-NM-WSN-U-57K-XX-XX w/OSQ-AAAX
[Symbol]	1	K-4ME-2(90)	2 @ 90°	1.010	17291	130	OSQ-A-NM-4ME-K-57K-XX-XX w/OSQ-DAXX
[Symbol]	2	K-4ME	SINGLE	1.010	17291	130	OSQ-A-NM-4ME-K-57K-XX-XX w/OSQ-DAXX
[Symbol]	4	WP	SINGLE	1.000	21500	158	C-WP-A-TR-21L-50K-DB

NOTES:
 ① NEW SERVICE ENTRANCE. SEE ONE-LINE DIAGRAM.
 ② NEW XCEL TRANSFORMER, PROPOSED LOCATION.
 ③ ALL PARKING LUMINAIRES, EXCEPT THOSE REQUIRED FOR SECURITY, SHALL BE EXTINGUISHED WITHIN ONE HOUR AFTER THE END OF BUSINESS HOURS AND REMAIN EXTINGUISHED UNTIL ONE HOUR BEFORE THE COMMENCEMENT OF BUSINESS HOURS PER AURORA SITE LIGHTING STANDARDS.



ENLARGED POWER PLAN
 SCALE: 1/4" = 1'-0"

- KEY NOTES**
1. POWER FOR DISPLAY SIGN. PROVIDE 4X4 J-BOX AT 12' AFF. VERIFY LOCATION. COORDINATE WITH ARCHITECT FOR SIGN CONTROLS.
 2. MOUNT RECEPTACLE AND DATA/TEL/ BOX AT 72" FOR TV. VERIFY LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

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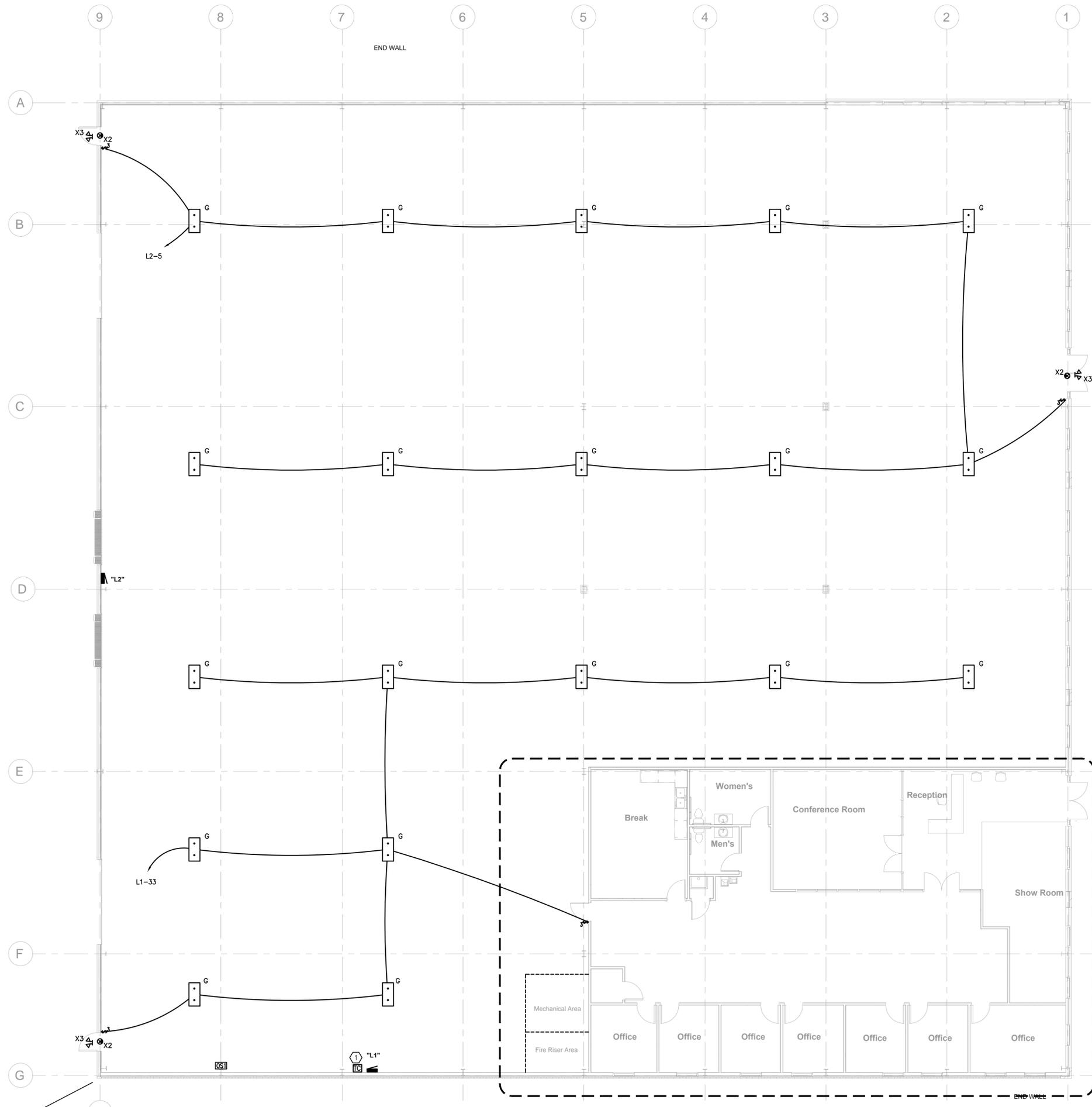
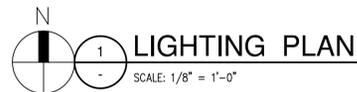
SHEET TITLE:
ENLARGED POWER PLAN
 SHEET NUMBER:
E-202

LIGHTING NOTES

- SEE SHEET E001 FOR LEGEND AND ADDITIONAL GENERAL NOTES.
- CONFIRM MOUNTING HEIGHT AND LOCATION OF ALL LUMINAIRES AND DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS.
- ALL CEILING MOUNTED OCCUPANCY SENSORS AND VACANCY SENSORS SHALL BE DUAL TECHNOLOGY TYPE.
- COORDINATE LUMINAIRE LOCATIONS WITH MECHANICAL PIPING, DUCTWORK, ETC. TO AVOID CONFLICTS. SEE SPECIFICATIONS FOR COORDINATION REQUIREMENTS.
- FIELD COORDINATE EXACT LOCATIONS OF CEILING MOUNTED OCCUPANCY SENSORS AND VACANCY SENSORS PER MANUFACTURER'S INSTRUCTIONS. THE LOCATIONS OF THE SENSORS ON DRAWINGS ARE DIAGRAMMATIC. DO NOT LOCATE OCCUPANCY SENSORS WITHIN THREE FEET OF AN HVAC SUPPLY DEVICE. IF ADDITIONAL SENSORS ARE NEEDED FOR COMPLETE COVERAGE OF SPACE THEY SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AS REQUIRED TO PROVIDE COMPLETE SPACE COVERAGE.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SWITCH PACKS FOR OCCUPANCY SENSORS TO PROVIDE FUNCTION INDICATED.

KEY NOTES

- EXTERIOR LIGHTING CONTROL. PROVIDE INTERMATIC MODEL ET1725C ASTRONOMICAL TIME CLOCK AND PHOTOCELL.



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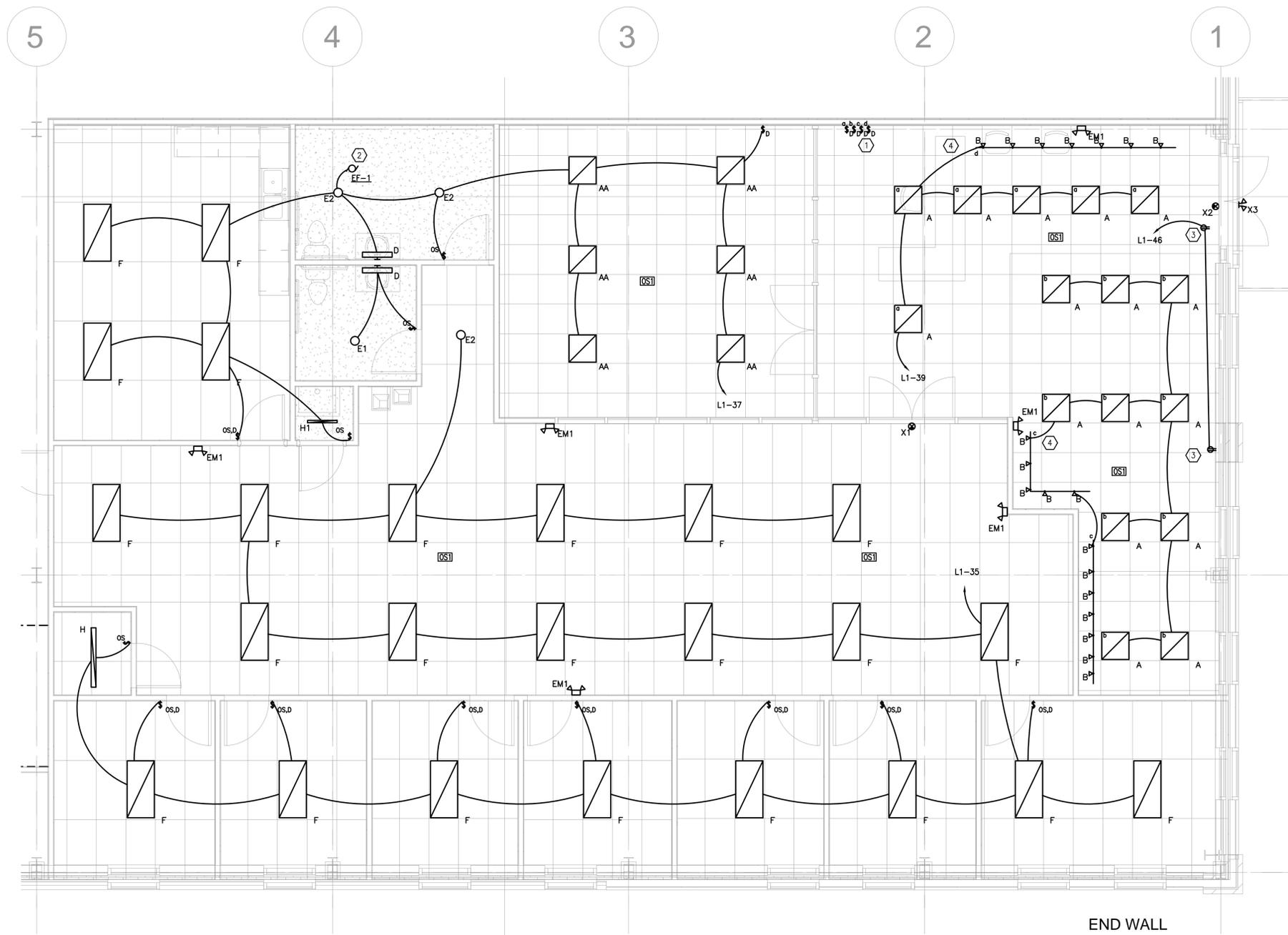
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DESIGNED:
DRAWN: AA
CHECKED: JJ
DATE: 01/20/2019
REVISIONS:

SHEET TITLE:
LIGHTING PLAN
SHEET NUMBER:

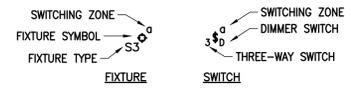
E-301

JOB NUMBER:
FILE:
DESIGNED:
DRAWN: AA
CHECKED: JJ
DATE: 01/20/2019
REVISIONS:

SHEET TITLE:
ENLARGED
POWER PLAN
SHEET NUMBER:
E-302



- KEY NOTES**
- DIMMER SWITCH BANK. COORDINATE SWITCHING WITH OWNER PRIOR TO ROUGH-IN.
 - RESTROOM EXHAUST FANS TO BE INTERLOCKED WITH LIGHTING CONTROLS.
 - SHOW WINDOW RECEPTACLE PER NEC 210.62. INSTALL RECEPTACLE WITHIN 18" OF TOP OF WINDOW. COORDINATE CONTROLS AND LOCATION WITH OWNER.
 - INSTALL 300 W CURRENT LIMITER FOR TRACK LIGHTING.



LIGHTING & SWITCHING LEGEND
SCALE: NTS

ENLARGED LIGHTING PLAN
SCALE: 1/4" = 1'-0"

END WALL



COMcheck Software Version 4.1.1.0
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: New Construction
 Project Type:

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

High efficiency HVAC. Systems that do not meet the performance requirement will be identified in the mechanical requirements checklist report.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-WAREHOUSE (Warehouse/Medium/Bulky/Pallet Material Storage)	22131	0.58	12836
2-OFFICE (Common Space Types:Office - Enclosed)	1037	1.11	1151
3-SHOWROOM (Common Space Types:Sales Area)	806	1.59	1282
4-OPEN OFFICES (Common Space Types:Office - Open Plan)	1308	0.98	1282
5-RESTROOM (Common Space Types:Restrooms)	204	0.98	200
6-BREAKROOM (Common Space Types:Lounge/Breakroom)	367	0.73	268
7-CONFERENCE (Common Space Types:Conference/Meeting/Multipurpose)	439	1.23	540
8-STORAGE (Common Space Types:Storage >=50 - <=1000 sq.ft.)	55	0.63	35
Total Allowed Watts =			17593

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-WAREHOUSE (Warehouse/Medium/Bulky/Pallet Material Storage) LED 1: G: Other:	1	19	165	3135
2-OFFICE (Common Space Types:Office - Enclosed) LED 5 copy 2: F: 2X4 LED PANEL: LED Panel 70W:	1	8	72	576
3-SHOWROOM (Common Space Types:Sales Area) LED 8: A: 2X2 LED PANEL: LED Panel 40W: Track lighting 1: B: TRACK LIGHTS: Wattage based on current limiting device capacity	1	10	40	400
	0	0	600	600
4-OPEN OFFICES (Common Space Types:Office - Open Plan) LED 5 copy 1: F: 2X4 LED PANEL: LED Panel 70W: LED 6 copy 1: E2: 6" RECESSED LED: LED PAR 15W:	1	12	72	864
	1	1	15	15
5-RESTROOM (Common Space Types:Restrooms) LED 6: E1,E2: 6" RECESSED LED: LED PAR 15W:	1	3	15	45
6-BREAKROOM (Common Space Types:Lounge/Breakroom) LED 5: F: 2X4 LED PANEL: LED Panel 70W:	1	4	72	288
7-CONFERENCE (Common Space Types:Conference/Meeting/Multipurpose)				

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
LED 4: AA: 2X2 LED: LED Panel 40W:	1	6	40	240
8-STORAGE (Common Space Types:Storage >=50 - <=1000 sq.ft.) LED 2: H: 4' LED STRIP: LED Linear 17W: LED 2 copy 1: H1: 2' LED STRIP: LED Linear 17W:	1	1	18	18
	1	1	18	18
Total Proposed Watts =				6199

Interior Lighting PASSES: Design 65% better than code

Interior Lighting Compliance Statement

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

Name - Title: Signature: Date:



COMcheck Software Version 4.1.1.0
Inspection Checklist

Energy Code: 2015 IECC

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

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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

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

Additional Comments/Assumptions:

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

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [F117] ¹	Furnished OEM instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405.4.1 [F118] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the interior Lighting fixture schedule for values.
C408.2.5.1 [F116] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.3 [F133] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

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

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ABC WAREHOUSE
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 DENVER, COLORADO 80203

JOB NUMBER:

FILE:

DESIGNED:

DRAWN: AA

CHECKED: JJ

DATE: 01/20/2019

REVISIONS:

SHEET TITLE:

COMCHECK

SHEET NUMBER:

E-401

